APPENDIX D

GEOTECHNICAL INVESTIGATION
(SOIL-MAT ENGINEERS & CONSULTANTS LTD.)

If technical reports are required in an alternative format for accessibility needs, please contact:

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APPENDIX D.1

BOREHOLE SAMPLING RESULTS (SOIL-MAT ENGINEERS & CONSULTANTS LTD.)

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SOIL-MAT ENGINEERS & CONSULTANTS LTD.

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Hamilton: 130 Lancing Drive L8W 3A1 T: 905.318.7440 F: 905.318.7455
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PROJECT NO.: SM 301760-G May 27, 2022

URBAN & ENVIRONMENTAL MANAGEMENT INC.
4701 St. Clair Avenue, Suite 301
Niagara Falls, Ontario
L2E 3S9

Attention: Lucas Smith, EIT

GEOTECHNICAL INVESTIGATION
PROPOSED RECONSTRUCTION OF LUNDY'S LANE
NIAGARA FALLS, ONTARIO

Dear Mr. Smith,

Further to your authorisation, SOIL-MAT ENGINEERS & CONSULTANTS LTD. has completed the fieldwork and laboratory testing, and report preparation in connection with the above noted project. The investigation and reporting were undertaken in general accordance with our proposal P301760, dated May 11, 2021. Our comments and recommendations, based on our findings at the eighteen [18] borehole locations are presented in this report.

1. INTRODUCTION

We understand that a Municipal Class Environmental Assessment is being conducted for the proposed reconstruction and infrastructure improvements along Lundy's Lane between Highland Avenue to Regional Road 98 (Montrose Road) in Niagara Falls, Ontario. The purpose of this geotechnical investigation work is to assess the existing pavement structure and subsurface soil conditions, and to provide our comments and recommendations with respect to the design and construction of the proposed road improvements/reconstruction, and infrastructure improvements, from a geotechnical point of view.

This report is based on the above summarised project description, and on the assumption that the design and construction will be performed in accordance with applicable codes and standards. Any significant deviations from the proposed project design may void the recommendations given in this report. If significant changes are made to the proposed design, this office must be consulted to review the new design with respect to the results of this investigation. It is noted that the information contained in this report does not reflect upon the environmental aspects of the site, which have been reported under a separate cover.

2. PROCEDURE

A total of eighteen [18] sampled boreholes were advanced at the locations illustrated in the attached Drawing Nos. 1 through 6, Borehole Location Plans. At selected borehole locations, the existing asphaltic concrete layers were also cored. Photographs of the recovered core samples have been appended to the end of this report. The boreholes were advanced using continuous flight power auger equipment between January 24, 2022 and February 1, 2022 under the direction and supervision of a staff member of SOIL-MAT ENGINEERS & CONSULTANTS LTD., to depths of approximately 4.9 to 6.7 metres below the existing ground surface along the subject roadway sections. Upon completion of drilling the boreholes were backfilled in general accordance with Ontario Regulation 903, and the road surface reinstated using a pre-mixed asphalt 'cold patch' product.

Representative samples of the subsoils were recovered from the borings at selected depth intervals using split barrel sampling equipment driven in accordance with the requirements of the ASTM test specification D1586, Standard Penetration Resistance Testing. After undergoing a general field examination, the soil samples were preserved and transported to the SOIL-MAT laboratory for visual, tactile, and olfactory classifications. Routine moisture content tests were performed on all soil samples recovered from the borings. Additionally, a single selected sample from each borehole was submitted for corrosivity testing. The results of this testing can be found appended to the end of this report.

The boreholes were located in the field by a representative of SOIL-MAT ENGINEERS & CONSULTANTS LTD., based on accessibility and clearance of underground services. The ground surface elevation at each borehole location was referenced to the existing roadway surface.

Details of the conditions encountered in the boreholes, together with the results of the field and laboratory tests, are presented in Log of Borehole Nos. 1 to 18, following the text of this report. It is noted that the boundaries of soil types indicated on the borehole logs are inferred from non-continuous soil sampling and observations made during drilling. These boundaries are intended to reflect transition zones for the purpose of geotechnical design and therefore should not be construed at the exact depths of geological change.

3. SITE DESCRIPTION AND SUBSURFACE CONDITIONS

The subject roadways consist of the section of Lundy's Lane between Highland Avenue and Regional Road 98 (Montrose Road). The subject roadways are urban paved road sections with concrete curbs and catch basins.

The pavement surfaces of the subject roadways were all noted to be in relatively poor to fair condition throughout, exhibiting occasional to regular longitudinal and traverse cracking, and occasional alligator cracking and repair patches. These conditions appear to be consistent with a predominately age-related distress of the asphalt surface, as well as isolated areas of subgrade failure.

The subsurface conditions encountered at the borehole locations are summarised as follows:

Pavement Structure

All of the boreholes were advanced through the existing pavement on Lundy's Lane. The pavement was found to consist of approximately 150 to 400 millimetres of asphaltic concrete, over approximately 200 to 700 millimetres of granular base material. The observed pavement structures are summarized as follows:

TABLE A: PAVEMENT STRUCTURE OBSERVATIONS

Borehole No.	1*	2	3	4*	5	6	7*	8	9
Asphaltic Concrete (mm)	200	150	150	175	225	175	400	200	175
Granular Base (mm)	450	500	550	500	400	700	275	450	375
Granular Base Equivalency (mm)	850	800	850	850	850	1050	1075	850	725
Borehole No.	**10***	**11**	**12**	**13***	**14**	**15**	**16***	**17**	**18**
Asphaltic Concrete (mm)	200	225	250	150	175	125	225	200	150
Granular Base (mm)	525	475	200	475	300	475	475	500	550
Granular Base Equivalency (mm)	925	925	700	775	650	725	925	900	850

*: denotes asphalt was cored.

As noted above, the asphalt surface at select borehole locations was cored including Borehole Nos. 1, 4, 7, 10, 13, and 16, and sample photographs can be found appended to the end of this report.

Silty Sand/Sandy Silt Fill

Silty sand/sandy silt fill was encountered below the pavement structure at all of the borehole locations with the exception of Borehole Nos. 2, 9, and 18. The fine grained granular fill soils were brown in colour, contained traces of clay and gravel, with occasional organics and construction debris inclusions, and was generally in a loose to compact state. The fill material was proven to depths of approximately 0.9 to 4.9 metres below the existing ground surface where encountered.

Silty Clay/Clayey Silt Fill

Silty clay/clayey silt fill was encountered metres below the pavement structure at Borehole No. 2, and beneath the silty sand/sandy silt fill in Borehole No. 12. The fine grained to cohesive fill soils were brown in colour, contained trace sand and gravel, with occasional organic inclusions, was generally stiff in in consistency. The fill material was proven to depths of approximately 1.8 to 3.1 metres below the existing ground surface where encountered.

It is noted that the fill deposits are likely comprised of the soils native to the area with similar composition to the native soils below, and the transition from fill material to native soils was somewhat indistinct. Material identified as native soils may in fact be well compacted fill materials. Conversely, material identified as fill may be disturbed or weathered native soils, having been subjected to ongoing freeze-thaw cycles and traffic loads. As such, fill deposits extending to greater depths than those identified may be present and should be anticipated.

Sandy Silt/Silty Sand

Native silty sand/sandy silt was encountered below the pavement structure or fill deposits at all borehole locations. The native fine-grained granular soil was brown to grey in colour, contained traces of clay and gravel, and was generally found to be in compact to dense state. The native silty sand/sandy silt was proven to termination a depth of approximately 5.2 to 6.7 metres below the existing ground surface at all borehole locations. The fine grained native soils tended to have a higher sand content in the upper levels, becoming more silty with depth. Some variation in composition across the length of the subject span of Lundy's Lane should be anticipated. The upper levels generally had a reworked appearance and may be fill materials having been subjected to ongoing freeze-thaw cycles and traffic loads, as noted above.

A review of available published information [Quaternary Geology of Ontario, Southern Sheet Map 2556] indicate the subsurface soils to consist of coarse-textured glaciolacustrine deposits of sand and gravel, with minor silt and clay. These conditions are consistent with our experience in the area, and observations during the fieldwork.

Two selected samples were subjected to laboratory grain size analyses, the results of which can be found appended to the end of this report, and are summarized as follows:

TABLE B
GRAIN SIZE ANALYSES

Sample ID	Depth (m)	% Clay	% Silt	% Sand	% Gravel	Estimated Hydraulic Conductivity, k [cm/s]
BH2 SS3	2.3	8	86	6	0	10^{-5}
BH15 SS3	2.3	5	69	26	0	10^{-4}

The above laboratory testing indicates the soils to consist predominately of Silt trace Sand to Sandy, and trace Clay, however trace to some gravel and occasional more clayey inclusions were also encountered. According to the Unified Soil Classification System (USCS), the soils are classified as M.H. – Inorganic silts to M.L. – Inorganic silts and very fine sands.

Groundwater Observations

All of the boreholes were recorded as being 'dry' upon completion. It is noted that insufficient time would have passed for the static groundwater level to stabilise in the open boreholes. In the fine-grained soils such as the sandy silt/silt encountered in the boreholes, the static groundwater level generally coincides with the transition in colour from brown to grey. As such, based on our observations during drilling in the area, the static groundwater level is conservatively estimated at depths of greater than 6 metres or more below the existing grade, beyond the anticipated depths of construction.

4. PAVEMENT RECONSTRUCTION CONSIDERATIONS

It is understood the roadway surface will be reconstructed as part of the various proposed road improvements. The existing pavement structure encountered at the borehole locations was found to consist of approximately 150 to 400 millimetres of asphaltic concrete over approximately 200 to 700 millimetres of granular base material, with an average granular base equivalency of 850 millimetres. The pavement structure was noted to be generally in a poor to occasionally fair condition, exhibiting occasional to regular longitudinal and traverse cracking, as well as occasional alligator cracking and patch repairs.

Given the thickness and condition of the asphalt and granular base materials, a partial depth reconstruction may be considered appropriate, provided areas with more significant, non-age related distresses receive local, full depth replacement. A full depth reconstruction would provide the longest lifespan and lower maintenance costs at an increased initial cost, and may be considered where a raise in the grade cannot be accommodated, or where asphalt damage and subgrade failure was observed to be more severe. It is noted that a partial depth reconstruction option would have a reduced lifespan and increased maintenance requirements versus a full depth reconstruction.

PARTIAL DEPTH RECONSTRUCTION

Partial depth reconstruction of the pavement structure would typically consist of a 'peel and pave' or 'pulverised and pave' method. A 'peel and pave' approach would involve the removal of the asphalt layers, re-grading and compaction of the existing granular base material, and placement of additional granular materials and new asphaltic concrete. A 'pulverise and pave' approach would involve pulverising the existing asphalt materials into the granular materials, regrading and compaction of the new granular base, and placement of new asphaltic concrete, however, as it is not anticipated that the grade is able to raised, this approach is likely not feasible.

Given the existing pavement structure thickness encountered at the borehole locations a 'peel and pave' approach would leave a minimum granular base thickness ranging between approximately 200 to 700 millimetres in granular base, however, given the total depths of asphalt encountered, varying between 150 to 400 millimetres in thickness, the opportunity to increase the total granular base may be available at some locations. In either case, it is recommended that where partial depth reconstruction is to be completed, a minimum granular base depth of 600 millimetres be provided, where possible. The provision of additional depth of granular base materials would serve to extend the lifespan of the pavement structure. As such, targeted full depth reconstruction may be of consideration in the vicinity of Boreholes 9, 12, 13, 14, and 15, where the depth of existing granular materials was lowest, on the order of 200 to 400 millimetres. Other areas exhibiting signs of subgrade failure or severe distress may also warrant full depth reconstruction. The existing and any new granular base materials should be compacted to 100 per cent of its standard Proctor maximum dry density [SPMDD].

The new asphalt layers should conform to the applicable Niagara Region standards, understood to consist of a minimum of 50 millimetres of SP12.5 surface course asphalt, and 100 millimetres of SP19.0 binder course, placed in two, 50-millimetre thick lifts. This asphalt structure is considered suitable for the proposed roadway sections, provided that the granular base materials are well compacted and repaired where necessary prior to placement of binder course asphalt.

FULL DEPTH RECONSTRUCTION

A full depth reconstruction would involve the removal of the existing asphalt layers and granular base materials to the proposed subgrade elevation. This approach would provide for a full depth of granular base material, with a resulting increased lifespan, and would allow to maintain the existing grades of the roadway. The existing asphaltic concrete could be pulverised into the existing granular base, and possibly mixed in with new imported granular fill material, to create a well-graded granular product that could be re-used on the project as trench backfill or sub-base course material, depending on the material gradation. Laboratory sieve analyses would be required to assess the suitability of the pulverised/existing granular materials. The subgrade level would then be lowered, where required, to accommodate the depths of the new pavement structure and finished grade.

The exposed subgrade should be proofrolled with 3 to 4 passes of a fully-loaded tandem-axle dump truck [over the same wheel path] in the presence of a representative of SOIL-MAT immediately prior to the placement of the sub-base material. Any areas of distress revealed by this or other means should be sub-excavated and replaced with suitable backfill material, such as with suitable on-site granular materials or imported OPSS Granular 'B', Type II (crushed limestone bedrock), compacted to 100 per cent of its SPMDD. Alternatively, the soft areas may be repaired by 'punching' coarse aggregate, such as a 50-millimetre clear crushed stone, into the soft areas. In severe cases, the provision of a stabilising geogrid or geofabric separator may be warranted. The need for sub-excavation of softened subgrade materials will be reduced if construction is undertaken during the dry summer months of the year and careful attention is paid to the compaction operations.

Good drainage provisions will optimise the long-term performance of the pavement structure. The subgrade must be properly crowned and shaped to promote drainage to the subdrain system. Subdrains should be installed to intercept excess subsurface water and to prevent softening of the subgrade material. Surface water should not be allowed to pond adjacent to the outer limits of the paved areas.

The most severe loading conditions on the subgrade typically occur during the course of construction. Therefore, precautionary measures may have to be taken to ensure that the subgrade is not unduly disturbed by construction traffic.

The new pavement structure should conform to the applicable Niagara Region Standards, understood to consist of the following as a minimum:

SP12.5 surface course	50 millimetres
SP19.0 binder course (place in two lifts)	100 millimetres
OPSS Granular 'A' (crushed bedrock) granular base	525 millimetres

It is our opinion, that this design is suitable for use on the subject roadway, provided that the subgrade has been prepared as detailed above before the sub-base course material is placed. However, consideration should be given to the provision of a Granular 'B' Type II (crushed limestone bedrock) in lieu of the lower levels (perhaps 300 to 400 millimetres) of the Granular 'A' base material. It is our experience that a crushed Granular 'B' Type II sub-base generally provides for a more robust and stable road base, and is generally better at promoting drainage away from the subgrade. If the subgrade is soft, remedial measures as discussed above may have to be implemented and/or the sub-base thickness may have to be increased. The granular sub-base and base courses should be compacted to 100 per cent of their SPMDD, and asphaltic concrete layers should be compacted to a minimum of 92 per cent of their Marshall maximum relative density [MRD]. A program of in-place density testing must be carried out to monitor that compaction requirements are being met.

The outlined full depth pavement reconstruction may be expected to have an approximate 20-year service life, assuming that regular maintenance is performed. Should a more detailed pavement structure design be required, site specific traffic information would be needed, together with detailed laboratory testing of the subgrade soils.

GENERAL ASPHALT PLACEMENT CONSIDERATIONS

To minimise segregation of the finished asphalt mat, the asphalt temperature must be maintained uniform throughout the mat during placement and compaction. All too often, significant temperature gradients exist in the delivered and placed asphalt with the cooler portions of the mat resisting compaction and presenting a honey combed surface. As the spreader moves forward, a responsible member of the paving crew should monitor the pavement surface, to ensure a smooth uniform surface. Surface segregation can be mitigated by 'back-casting' or scattering shovels of the full mix material over the segregated areas and raking out the coarse particles during compaction operations. Of course, the above assumes that the asphalt mix is sufficiently hot to allow the 'back-casting' to be performed.

5. EXCAVATIONS

Excavations for the installation of underground services are expected to extend to depths of up to about 2 to 5 metres below the existing road surface along the subject roadways. Excavations through surficial fill deposits and native sandy silt/silt soils would be expected to remain stable at inclinations of up to 45 degrees to the horizontal. Where wet seams are encountered, during periods of extended precipitation, or where excavations extend below the static groundwater level, excavations may have a tendency to 'slough in' to as flat as 3 horizontal to 1 vertical, or flatter. Notwithstanding the foregoing, all excavations must comply with the current Occupational Health and Safety Act and Regulations for Construction Projects. Excavation slopes steeper than those required in the Safety Act must be supported or a trench box must be provided, and a senior geotechnical engineer from this office should monitor the work.

As noted above, the static groundwater level is estimated at depths of approximately 6 metres or more below the existing road surface, below the anticipated depths of construction. Regardless, infiltration of water through permeable seams, perched deposits, as well as surface runoff into open excavations, should be anticipated. The rate of infiltration is anticipated to be sufficiently low such that it should be possible to adequately control perched groundwater infiltration for the short construction period using conventional construction dewatering methods, such as pumping from sumps in the base of the excavation. Surface water should be directed away from the excavations.

The base of the excavations in the native soils encountered in the boreholes should generally remain firm and stable, however some localised instability may be experienced due to weather conditions, infiltration of water through permeable seams, service trenches, etc. may be experienced, especially in deeper excavations or during the wet times of the year. Excavation bases that experience localised base instability may require sub-excavation or unsuitable soils, additional bedding material, or other base stabilisation measures.

With firm and stable excavation base conditions, stabilised as required, standard pipe bedding, as typically specified by the Ontario Provincial Standard Specifications [OPSS] or City of Niagara Falls should be satisfactory. The bedding should be well compacted to provide sufficient support to the pipes and components (i.e., valve chambers, manholes, etc.), and to minimise settlements of the roadway above the service trenches. Special attention should be paid to compaction under the pipe haunches.

Any utility poles, light poles, etc., located within 3 metres of the top of an excavation slope should be laterally braced to ensure their stability. Likewise, temporary support might be required for other existing, above or below ground structures, including existing underground services, depending on their proximity to the trench excavations.

6. BACKFILL CONSIDERATIONS

The excavated soils are anticipated to consist of the granular materials from the pavement structure, fill materials, and native and sandy silt/silty sand soils, encountered in the boreholes as described above. These soils are generally considered suitable for use as service trench backfill provided that they are free of organics, construction debris, or other deleterious materials, and the moisture content can be controlled within 3 per cent of the material's standard Proctor optimum value. Depending on the weather conditions at the time of construction, some moisture conditioning of the excavated materials may be required to achieve adequate compaction in order to minimise long-term settlements. The on-site soils encountered are generally considered to be near to 'dry' of their optimum moisture contents. Some selective sorting of existing fill materials may be required.

The fine grained soils encountered in the boreholes are sensitive to moisture absorption and will become practically impossible to compact using conventional compaction equipment if they become wet during extended periods of precipitation. The excavated materials should therefor undergo minimal exposure to the elements, in order to minimise the absorption of precipitation prior to their use as backfill. Stockpiles of excavated soils should be tarped in advance of forecast precipitation to protect against saturation. After a period of heavy precipitation, any near surface softened material should be allowed to dry or be removed from the fill surface and discarded.

It is noted that where the backfill material is placed and compacted near or slightly above its optimum moisture content the potential for long-term settlement due to ingress of groundwater and collapse of the fill structure is reduced. Correspondingly, the shear strength of the 'wet' backfill material is also lowered, thereby reducing its ability to support construction traffic and therefore impacting roadway construction. If the soil is well dry of its optimum value, it will appear to be very strong when compacted, but will tend to settle with time as the moisture content in the fill increases to equilibrium condition. Therefore, it is very important that the moisture content of the fill at the time of placement and compaction is within three per cent of its standard Proctor optimum moisture content. Any imported fill required in service trenches or to raise the subgrade elevation should exhibit respective moisture contents within three per cent of its optimum moisture content and meet the necessary environmental guidelines.

Alternatively, the service trenches may be backfilled with quality imported granular materials. The use of a well-graded granular material such as an OPSS Granular 'B', Type II (crushed limestone bedrock) would be preferred, as it is less sensitive to moisture conditions and more readily compacted in the restricted access areas of service trenches. Any imported fill should have its moisture content within 3 per cent of its optimum moisture content, conform to the project specifications with regards to material type and gradation, and meet the necessary environmental guidelines.

The service trench backfill should be placed in loose lifts not exceeding 300 millimetres, and should be compacted to a minimum of 98 per cent of its standard Proctor maximum dry density [SPMDD] with the heaviest possible equipment that will not damage the underlying service pipe. Compaction should be achieved with the appropriate equipment for the fill soil type, using a pad toe ("sheepsfoot") roller in cohesive soils and a smooth drum roller or vibratory plate for granular soils.

A representative of SOIL-MAT ENGINEERS should be retained to monitor the backfilling and compaction operations to confirm uniform compaction of the backfill material to project specification requirements. Close supervision is prudent in areas that are not readily accessible to compaction equipment, for instance near the end of compaction 'runs'. A method should be developed to assess compaction efficiency employing the on-site compaction equipment and backfill materials during construction.

7. MANHOLES, CATCH BASINS AND THRUST BLOCKS

In the event that the manholes, catch basins, valve chambers, etc. are founded on the native soils, stabilised where required, the bearing surfaces will be practically non-yielding under the anticipated loads. Proper preparation of the founding soils will tend to accentuate the protrusion of these structures above the pavement surface if compaction of the fill around these structures is not adequate, causing settlement of the surrounding paved surfaces. Conversely, the pavement surfaces may rise above the valve chambers and around manholes under frost action. To alleviate the potential for these types of differential movements, free-draining, non-frost susceptible material should be employed as backfill around the structures located within the paved roadway limits, and compacted to 100 per cent of its SPMDD.

The thrust blocks in the native soils may be conservatively sized as recommended by the applicable Ontario Provincial Standard Specification using a horizontal allowable bearing pressure of 100 kPa [~2,000 psf]. Any backfill required behind the blocks should be granular and should be compacted to 100 per cent of its standard Proctor maximum dry density.

8. SOIL CORROSIVITY

As previously noted, selected samples were subjected to a standard corrosivity testing package. The results of this analytical testing are included in the attached AGAT Laboratories Certificates of Analyses [22T858476 & 22T860034]. As noted above, the results of the remainder of the analytical testing have been reported under a separate cover. Comparison of the test results to the AWWA soil corrosiveness scoring system [adapted from ANSI/AWWA C105/A21.5] yielded the point ratings displayed in the following table:

TABLE D - CORROSIVITY SCORES

Sample ID	BH1 SS2	BH2 SS4	BH3 SS3	BH4 SS2	BH5 SS3	BH6 SS4	BH7 SS3	BH8 SS3	BH9 SS3
AWWA Score	11	11	11	11	11	14	11	14	14
Sample ID	**BH10 SS4**	**BH11 SS3**	**BH12 SS3**	**BH13 SS4**	**BH14 SS3**	**BH15 SS4**	**BH16 SS2**	**BH17 SS3**	**BH18 SS4**
AWWA Score	14	9	11	12	11	11	11	6	13

A value of 10 or more points would indicate a soil environment that would be considered corrosive to iron/steel. As such, the subsurface soils would be considered a potentially corrosive environment, and it is recommended that any below grade steel pipe or appurtenances be provided with nominal corrosion protection, i.e. sacrificial anodes.

Sulphate content of the submitted samples were up to the order of 7 to 291 ug/g (<0.1 per cent), which is considered to be negligible potential for sulphate attack on below grade concrete. As such, the use of sulphate resistant cement would not be warranted. Tight control of the water to cement ratio of the mix, as well as the consideration of the use of supplementary cementing materials [such as the use of a blend of Portland cement with cementitious slag in the production of concrete], will provide a durable and resistant concrete for use in below grade structures.

9. GENERAL COMMENTS

The comments provided in this document are intended only for the guidance of the design team. The material in it reflects SOIL-MAT ENGINEERS' best judgement in light of the information available to it at the time of preparation. The subsurface descriptions and borehole information are intended to describe conditions at the borehole location only. It is the contractors' responsibility to determine how these conditions will affect the scheduling and methods of construction for the project. Any use which a third party makes of this report, or any reliance on or decisions to be made based on it, are the responsibility of such third parties. SOIL-MAT ENGINEERS accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report.

We trust that this geotechnical report is sufficient for your present requirements. Should you require any additional information or clarification as to the contents of this document, please do not hesitate to contact the undersigned.

Yours very truly,
SOIL-MAT ENGINEERS & CONSULTANTS LTD.

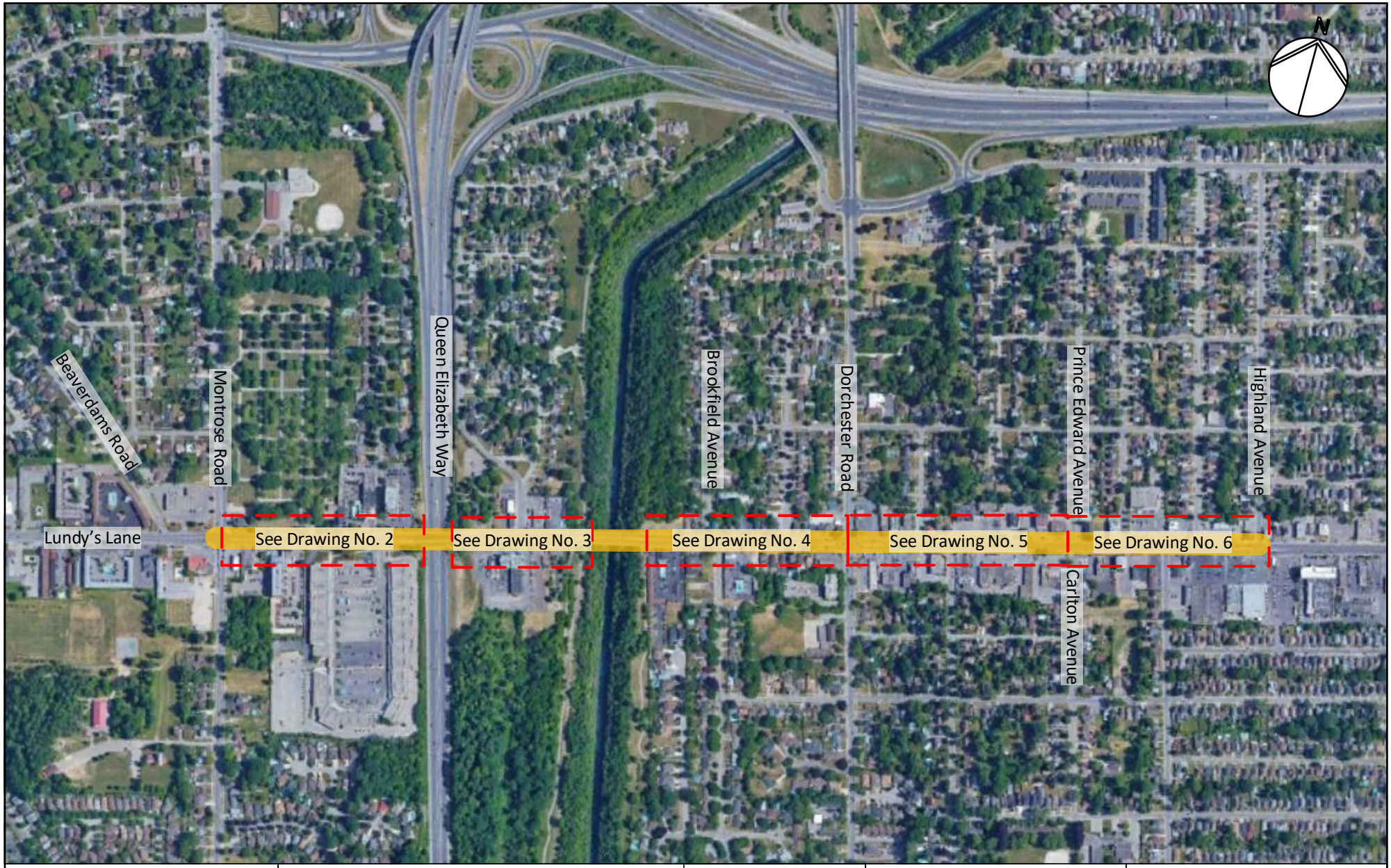


Adam Roemmele, P. Eng.
Project Engineer

Kyle Richardson, P. Eng.
Review Engineer

Enclosures: Drawing Nos. 1 through 6, Borehole Location Plans
Borehole Logs No. 1 through 18
Asphalt Core Sample Pictures
AGAT Certificates of Analysis

Distribution: Urban and Environmental Management Inc. [1, pdf]



Soil-Mat
Engineers & Consultants Ltd.

CLIENT
Urban & Environmental Management Inc.

LEGEND

Approximate Project Area

NOTES

1. This map should be read in conjunction with Soil-Mat Engineers and Consultants Ltd. Report No.: SM 301760-G.
2. Basemap retrieved from Google Earth.

Geotechnical Investigation
Lundy's Lane
Niagara Falls, Ontario

Project Area

Project No. SM 301760-G

Date: September 2021

Drawn: AR | Checked: KR

301760 Drawing No. 1 – Project Area vsdx

Drawing No. 1



LEGEND

Borehole Location

BH#

NOTES

1. This drawing should be read in conjunction with Soil-Mat Engineers & Consultants Ltd. Report No. SM 301760-G.

2. Borehole locations are approximate.

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Geotechnical Investigation
Proposed Reconstruction of
Lundy's Lane
Niagara Falls, Ontario

Borehole Location Plan

Project No. SM 301760-G

Date: September, 2021

Drawn: AR	Checked: KR

SM 301760-G Borehole Location Plan

Drawing No. 2



LEGEND

Borehole Location

BH#

NOTES

1. This drawing should be read in conjunction with Soil-Mat Engineers & Consultants Ltd. Report No. SM 301760-G.

2. Borehole locations are approximate.

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Geotechnical Investigation
Proposed Reconstruction of
Lundy's Lane
Niagara Falls, Ontario

Borehole Location Plan

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Drawn: AR | Checked: KR

SM 301760-G Borehole Location Plan

Drawing No. 3



LEGEND

BH# Borehole Location

NOTES

1. This drawing should be read in conjunction with Soil-Mat Engineers & Consultants Ltd. Report No. SM 301760-G.

2. Borehole locations are approximate.

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ENGINEERS & CONSULTANTS LTD.

Geotechnical Investigation
Proposed Reconstruction of
Lundy's Lane
Niagara Falls, Ontario

Borehole Location Plan

Project No. SM 301760-G

Date: September, 2021

Drawn: AR	Checked: KR

SM 301760-G Borehole Location Plan

Drawing No. 4



LEGEND

Borehole Location

BH#

NOTES

1. This drawing should be read in conjunction with Soil-Mat Engineers & Consultants Ltd. Report No. SM 301760-G.

2. Borehole locations are approximate.

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Geotechnical Investigation
Proposed Reconstruction of
Lundy's Lane
Niagara Falls, Ontario

Borehole Location Plan

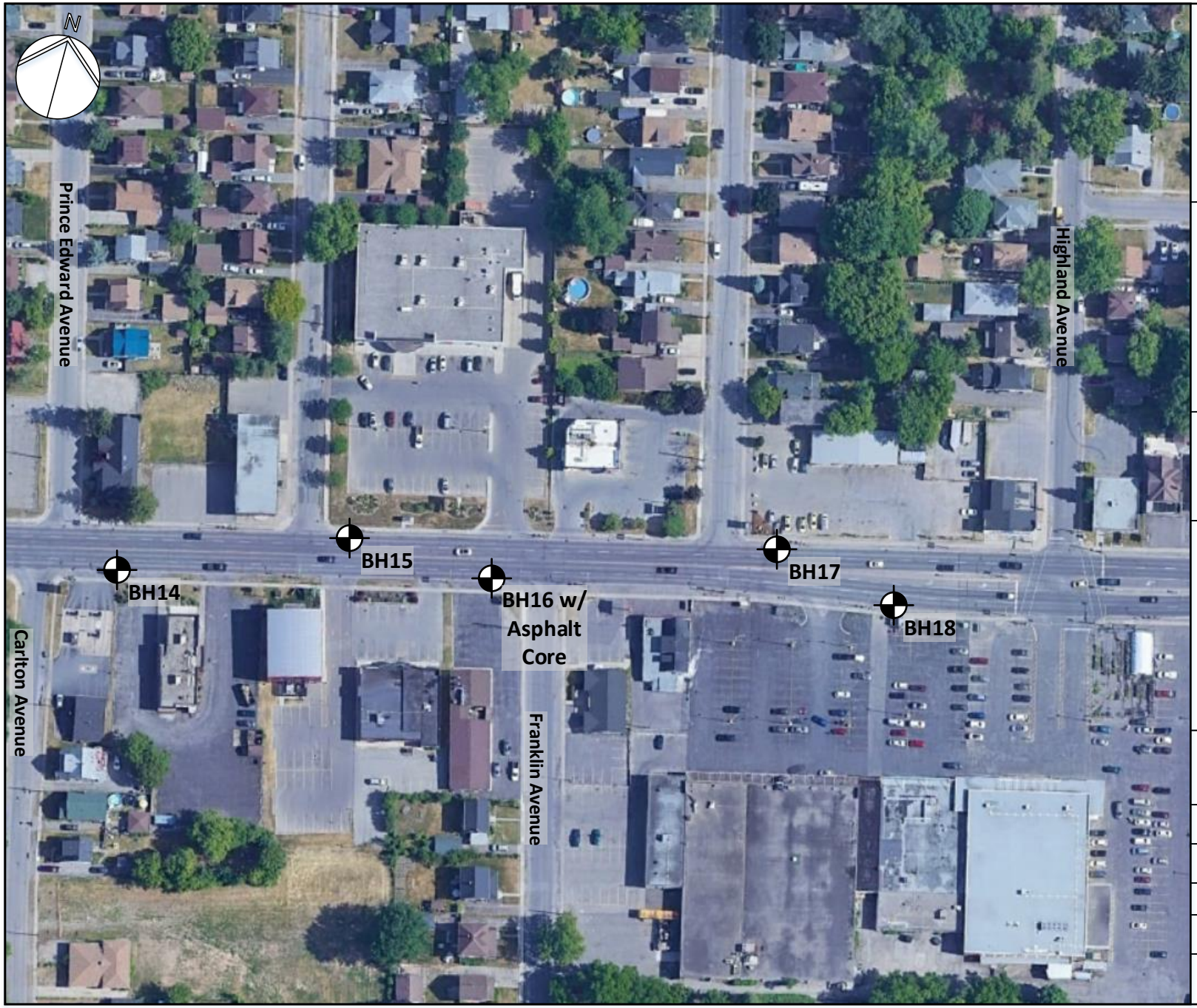
Project No. SM 301760-G

Date: September, 2021

Drawn: AR	Checked: KR

SM 301760-G Borehole Location Plan

Drawing No. 5



LEGEND

Borehole Location

BH#

NOTES

1. This drawing should be read in conjunction with Soil-Mat Engineers & Consultants Ltd. Report No. SM 301760-G.

2. Borehole locations are approximate.

SOIL-MAT

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Geotechnical Investigation
Proposed Reconstruction of
Lundy's Lane
Niagara Falls, Ontario

Borehole Location Plan

Project No. SM 301760-G

Date: September, 2021

Drawn: AR	Checked: KR

SM 301760-G Borehole Location Plan

Drawing No. 6

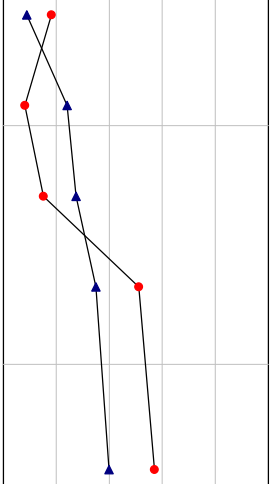
Log of Borehole No. 01

Project No: SM 301760-G
Project: Proposed Road Reconstruction
Location: Lundy's Lane, Niagara Falls
Client: Urban & Environmental Management Inc.

Project Manager: Adam Roemmele, P. Eng.
Borehole Location: See Drawing No. 2
UTM Coordinates - N: 4772418
E: 652810

Depth (ft / m)	Elevation (m)	Description	Well Data	SAMPLE Type	Number	Blow Counts	Blows/300mm	Recovery	PP (kgf/cm2)	U.Wt.(kN/m3)
0 / 0	0.00	Ground Surface								
0–2 / 0	0.00 to -0.65	**Pavement Structure** Approximately 200 millimetres of asphaltic concrete over 450 millimetres of compact granular base.								
2–5 / 1	-0.65 to -1.52	**Silty Sand/Sandy Silt Fill** Brown, trace clay and gravel, occasional black wood inclusions, compact.		SS	1	5,9,9,8,9	18			
5–7 / 1–2	-1.52 to -5.18	**Sand Silt/Silt** Brown, trace gravel,trace to some clay, reworked in the upper levels, loose to very dense.		SS	2	3,4,4,6	8			
7–10 / 2–3				SS	3	6,7,8,11	15			
10–16 / 3–5				SS	4	18,26,25,26	51			
16–17 / 5	-5.18	End of Borehole		SS	5	18,26,31,33	57			

Moisture Content w% (10 20 30 40)
Standard Penetration Test blows/300mm (20 40 60 80)



NOTES:

1. Borehole was advanced using solid stem auger equipment on January 26, 2022 to termination at a depth of 5.2 metres.

2. Borehole was recorded as open and 'dry' upon completion and backfilled as per Ontario Regulation 903.

3. Soil samples will be discarded after 3 months unless otherwise directed by our client.

Drill Method: Solid Stem Augers
Drill Date: January 26, 2022
Hole Size: 150 Millimetres
Drilling Contractor: Elements Geo

Soil-Mat Engineers & Consultants Ltd.
130 Lancing Drive, Hamilton, ON L8W 3A1
T: 905.318.7440 F: 905.318.7455
E: info@soil-mat.ca

Datum: Existing Road Surface
Field Logged by: MA
Checked by: AR
Sheet: 1 of 1

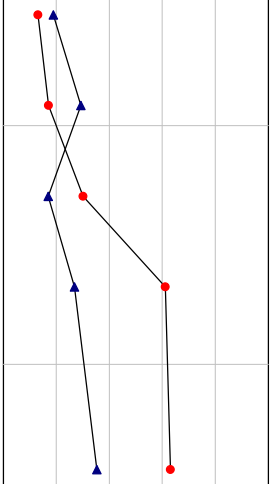
Log of Borehole No. 02

Project No: SM 301760-G
Project: Proposed Road Reconstruction
Location: Lundy's Lane, Niagara Falls
Client: Urban & Environmental Management Inc.

Project Manager: Adam Roemmele, P. Eng.
Borehole Location: See Drawing No. 2
UTM Coordinates - N: 4772421
E: 652918

Depth (ft / m)	Elevation (m)	Description	Well Data	SAMPLE Type	Number	Blow Counts	Blows/300mm	Recovery	PP (kgf/cm2)	U.Wt.(kN/m3)
	0.00	Ground Surface								
	-0.65	**Pavement Structure** Approximately 150 millimetres of asphaltic concrete over 500 millimetres of compact granular base.								
	-1.82	**Clayey Silt/Silty Clay Fill** Brown, trace sand and gravel, stiff.		SS	1	6,6,7,6,7	13			
				SS	2	4,6,11,14	17			
	-5.18	**Sandy Silt/Silt** Brown, trace to some clay, compact to very dense.		SS	3	9,14,16,22	30			
				SS	4	15,28,33,35	61			
				SS	5	22,30,33,38	63			
		End of Borehole								

Moisture Content w% (10 20 30 40)
Standard Penetration Test blows/300mm (20 40 60 80)



NOTES:

1. Borehole was advanced using solid stem auger equipment on January 25, 2022 to termination at a depth of 5.2 metres.

2. Borehole was recorded as open and 'dry' upon completion and backfilled as per Ontario Regulation 903.

3. Soil samples will be discarded after 3 months unless otherwise directed by our client.

Drill Method: Solid Stem Augers
Drill Date: January 25, 2022
Hole Size: 150 Millimetres
Drilling Contractor: Elements Geo

Soil-Mat Engineers & Consultants Ltd.
130 Lancing Drive, Hamilton, ON L8W 3A1
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E: info@soil-mat.ca

Datum: Existing Road Surface
Field Logged by: MA
Checked by: AR
Sheet: 1 of 1

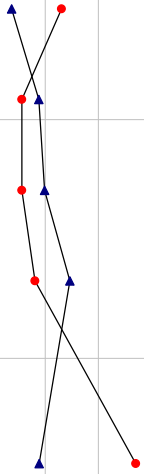
Log of Borehole No. 03

Project No: SM 301760-G
Project: Proposed Road Reconstruction
Location: Lundy's Lane, Niagara Falls
Client: Urban & Environmental Management Inc.

Project Manager: Adam Roemmele, P. Eng.
Borehole Location: See Drawing No. 2
UTM Coordinates - N: 4772416
E: 6523044

Depth (ft / m)	Elevation (m)	Description	Well Data	SAMPLE Type	Number	Blow Counts	Blows/300mm	Recovery	PP (kgf/cm2)	U.Wt.(kN/m3)
0 / 0	0.00	Ground Surface								
0–2 / 0	0.00 to -0.70	**Pavement Structure** Approximately 150 millimetres of asphaltic concrete over 550 millimetres of compact granular base.								
3–9 / 1–2	-0.70 to -2.90	**Silty Sand/Sandy Silt Fill** Brown, trace to some gravel, clayey silt inclusions in lower levels, compact.		SS	1	13,13,13,14, 14	26			
				SS	2	5,5,6,6	11			
				SS	3	5,5,6,7	11			
10–16 / 3–5	-2.90 to -5.18	**Sandy Silt/Silt** Brown, trace to some clay, trace gravel, compact to very dense.		SS	4	3,4,12,27	16			
				SS	5	18,21,33,48	54			
17 / 5	-5.18	End of Borehole								

Moisture Content w% (10 20 30 40)
Standard Penetration Test blows/300mm (20 40 60 80)



NOTES:

1. Borehole was advanced using solid stem auger equipment on January 26, 2022 to termination at a depth of 5.2 metres.

2. Borehole was recorded as open and 'dry' upon completion and backfilled as per Ontario Regulation 903.

3. Soil samples will be discarded after 3 months unless otherwise directed by our client.

Drill Method: Solid Stem Augers
Drill Date: January 26, 2022
Hole Size: 150 Millimetres
Drilling Contractor: Elements Geo

Soil-Mat Engineers & Consultants Ltd.
130 Lancing Drive, Hamilton, ON L8W 3A1
T: 905.318.7440 F: 905.318.7455
E: info@soil-mat.ca

Datum: Existing Road Surface
Field Logged by: MA
Checked by: AR
Sheet: 1 of 1

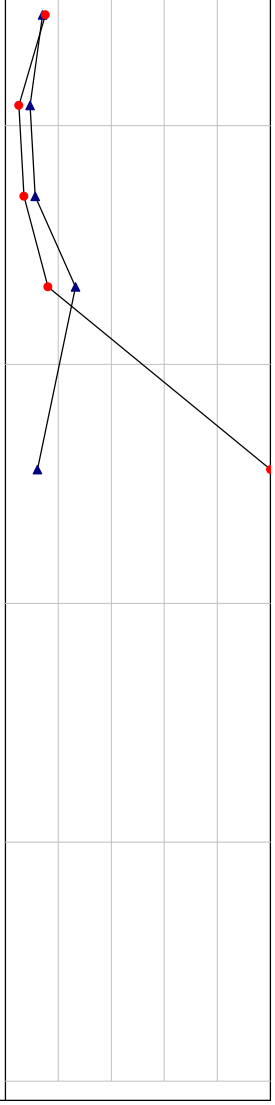
Log of Borehole No. 04

Project No: SM 301760-G
Project: Proposed Road Reconstruction
Location: Lundy's Lane, Niagara Falls
Client: Urban & Environmental Management Inc.

Project Manager: Adam Roemmele, P. Eng.
Borehole Location: See Drawing No. 3
UTM Coordinates - N: 4772422
E: 653161

Depth (ft / m)	Elevation (m)	Description	Well Data	SAMPLE Type	Number	Blow Counts	Blows/300mm	Recovery	PP (kgf/cm2)	U.Wt.(kN/m3)
0 / 0	0.00	Ground Surface								
0–2 / 0–0.5	-0.68	**Pavement Structure** Approximately 175 millimetres of asphaltic concrete over 500 millimetres of compact granular base.								
2–10 / 0.5–3	-3.25	**Silty Sand/Sandy Silt Fill** Brown, trace gravel, decreasing gravel content with depth, compact to loose.		SS	1	10,8,7,9,8	15			
				SS	2	3,2,3,4	5			
				SS	3	2,3,4,5	7			
10–16 / 3–5	-4.95	**Sandy Silt/Silt** Brown, trace to some clay, trace gravel, compact to very dense.		SS	4	5,6,10,19	16			
				SS	5	25,46,50/3"	100			
16 / 5		End of Borehole								

Moisture Content w% (10 20 30 40)
Standard Penetration Test blows/300mm (20 40 60 80)



NOTES:

1. Borehole was advanced using solid stem auger equipment on January 26, 2022 to termination at a depth of 5.0 metres.

2. Borehole was recorded as open and 'dry' upon completion and backfilled as per Ontario Regulation 903.

3. Soil samples will be discarded after 3 months unless otherwise directed by our client.

Drill Method: Solid Stem Augers
Drill Date: January 26, 2022
Hole Size: 150 millimetres
Drilling Contractor: Elements Geo

Soil-Mat Engineers & Consultants Ltd.
130 Lancing Drive, Hamilton, ON L8W 3A1
T: 905.318.7440 F: 905.318.7455
E: info@soil-mat.ca

Datum: Existing Road Surface
Field Logged by: MA
Checked by: AR
Sheet: 1 of 1

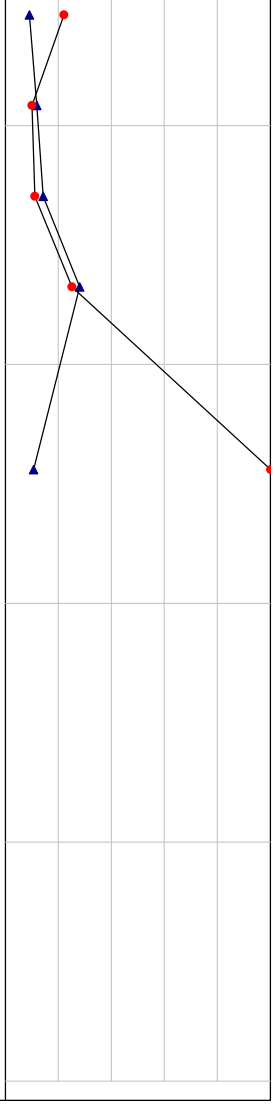
Log of Borehole No. 05

Project No: SM 301760-G
Project: Proposed Road Reconstruction
Location: Lundy's Lane, Niagara Falls
Client: Urban & Environmental Management Inc.

Project Manager: Adam Roemmele, P. Eng.
Borehole Location: See Drawing No. 3
UTM Coordinates - N: 4772445
E: 653077

Depth (ft / m)	Elevation (m)	Description	Well Data	SAMPLE Type	Number	Blow Counts	Blows/300mm	Recovery	PP (kgf/cm2)	U.Wt.(kN/m3)
0 / 0	0.00	Ground Surface								
0–2 / 0–1	-0.63	**Pavement Structure** Approximately 225 millimetres of asphaltic concrete over 400 millimetres of compact granular base.								
3–9 / 1–2	-2.90	**Silty Sand/Sandy Silt Fill** Brown, trace gravel, compact.		SS	1	17,12,10,10, 10	22			
				SS	2	3,4,6,6	10			
				SS	3	3,5,6,7	11			
10–16 / 3–5	-4.98	**Sandy Silt/ Silt** Brown, trace to some clay, compact to very dense.		SS	4	7,10,15,17	25			
				SS	5	23,48,50/4"	100			
		End of Borehole								

Moisture Content w% (10 20 30 40)
Standard Penetration Test blows/300mm (20 40 60 80)



NOTES:

1. Borehole was advanced using solid stem auger equipment on January 25, 2022 to spoon refusal at a depth of 5.0 metres.

2. Borehole was recorded as open and 'dry' upon completion and backfilled as per Ontario Regulation 903.

3. Soil samples will be discarded after 3 months unless otherwise directed by our client.

Drill Method: Solid Stem Augers
Drill Date: January 25, 2022
Hole Size: 150 Millimetres
Drilling Contractor: Elements Geo

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130 Lancing Drive, Hamilton, ON L8W 3A1
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Datum: Existing Road Surface
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Log of Borehole No. 06

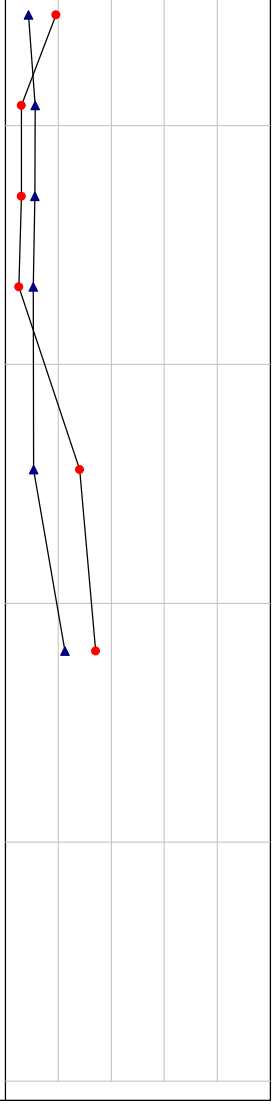
Project No: SM 301760-G
Project: Proposed Road Reconstruction
Location: Lundy's Lane, Niagara Falls
Client: Urban & Environmental Management Inc.

Project Manager: Adam Roemmele, P. Eng.
Borehole Location: See Drawing No. 4
UTM Coordinates - N: 4772455
E: 653457

Depth (ft / m)	Elevation (m)	Description	Well Data	SAMPLE Type	Number	Blow Counts	Blows/300mm	Recovery	PP (kgf/cm2)	U.Wt.(kN/m3)
	0.00	Ground Surface								
0 / 0		**Pavement Structure** Approximately 175 millimetres of asphaltic concrete over 700 millimetres of compact granular base.								
3 / 1	-0.88	**Silty Sand/Sandy Silt Fill** Brown, with trace to some gravel, compact to loose.		SS	1	21,11,8,9,12	19			
6 / 2				SS	2	3,3,3,5	6			
9 / 3				SS	3	3,3,3,3	6			
12 / 4				SS	4	1,2,3,4	5			
16 / 5	-4.93	**Silty Sand/Sandy Silt** Brown, trace gravel and clay, compact to dense.		SS	5	8,11,17,20	28			
20 / 6				SS	6	11,16,18,21	34			
22 / 7	-6.71	End of Borehole								

Moisture Content w% (10 20 30 40)

Standard Penetration Test blows/300mm (20 40 60 80)



NOTES:

1. Borehole was advanced using solid stem auger equipment on January 27, 2022 to termination at a depth of 6.7 metres.

2. Borehole was recorded as open and 'dry' upon completion and backfilled as per Ontario Regulation 903.

3. Soil samples will be discarded after 3 months unless otherwise directed by our client.

Drill Method: Solid Stem Augers
Drill Date: January 27, 2022
Hole Size: 150 Millimetres
Drilling Contractor: Elements Geo

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130 Lancing Drive, Hamilton, ON L8W 3A1
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Log of Borehole No. 07

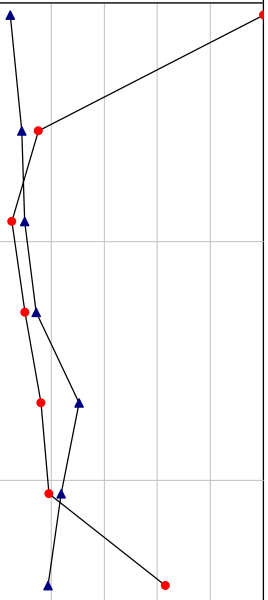
Project No: SM 301760-G
Project: Proposed Road Reconstruction
Location: Lundy's Lane, Niagara Falls
Client: Urban & Environmental Management Inc.

Project Manager: Adam Roemmele, P. Eng.
Borehole Location: See Drawing No. 4
UTM Coordinates - N: 4772449
E: 653542

Depth (ft / m)	Elevation (m)	Description	Well Data	SAMPLE Type	Number	Blow Counts	Blows/300mm	Recovery	PP (kgf/cm2)	U.Wt.(kN/m3)
0 / 0	0.00	Ground Surface								
0–2 / 0–0.68	-0.68	**Pavement Structure** Approximately 400 millimetres of asphaltic concrete over 275 millimetres of compact granular base.		SS	1	50/2"	100			
2–8 / 0.68–2.59	-2.59	**Silty Sand/Sandy Silt Fill** Brown, with some gravel, trace clay, compact to loose.		SS SS	2 3	9,8,7,6 3,2,3,4	15 5			
8–16 / 2.59–5.18	-5.18	**Silty Sand/Sandy Silt** Brown, trace clay and gravel, compact to very dense.		SS SS SS SS	4 5 6 7	3,3,7,11 6,7,9,11 7,9,10,13 17,29,34,45	10 16 19 63			
16 / 5.18		End of Borehole								

Moisture Content w% (10 20 30 40)

Standard Penetration Test blows/300mm (20 40 60 80)



NOTES:

1. Borehole was advanced using solid stem auger equipment on January 24, 2022 to termination at a depth of 5.2 metres.

2. Borehole was recorded as open and 'dry' upon completion and backfilled as per Ontario Regulation 903.

3. Soil samples will be discarded after 3 months unless otherwise directed by our client.

Drill Method: Solid Stem Augers
Drill Date: January 27, 2022
Hole Size: 150 Millimetres
Drilling Contractor: Elements Geo

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130 Lancing Drive, Hamilton, ON L8W 3A1
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Log of Borehole No. 08

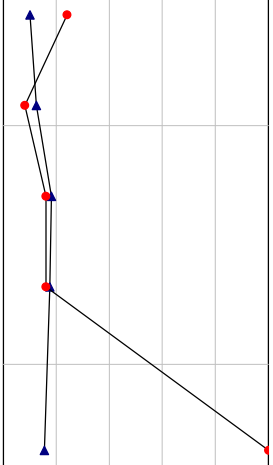
Project No: SM 301760-G
Project: Proposed Road Reconstruction
Location: Lundy's Lane, Niagara Falls
Client: Urban & Environmental Management Inc.

Project Manager: Adam Roemmele, P. Eng.
Borehole Location: See Drawing No. 3
UTM Coordinates - N: 4772462
E: 653664

Depth (ft / m)	Elevation (m)	Description	Type	Number	Blow Counts	Blows/300mm	Recovery	PP (kgf/cm2)	U.Wt.(kN/m3)
0 / 0	0.00	Ground Surface							
0–2 / 0–0.65		**Pavement Structure** Approximately 200 millimetres of asphaltic concrete over 450 millimetres of compact granular base.							
2–10 / 0.65–3.05		**Silty Sand/Sandy Silt Fill** Brown, trace to some gravel, loose to compact.	SS	1	10,12,12,12, 11	24			
			SS	2	4,4,4,6	8			
			SS	3	5,7,9,13	16			
10–15 / 3.05–4.86		**Sandy Silt/Silt** Brown, trace to some clay, compact to very dense.	SS	4	5,7,9,16	16			
15 / 4.86		End of Borehole	SS	5	25,50/5.5"	100			

Moisture Content w% (10 20 30 40)

Standard Penetration Test blows/300mm (20 40 60 80)



NOTES:

1. Borehole was advanced using solid stem auger equipment on January 25, 2022 to spoon refusal at a depth of 4.9 metres.

2. Borehole was recorded as open and 'dry' upon completion and backfilled as per Ontario Regulation 903.

3. Soil samples will be discarded after 3 months unless otherwise directed by our client.

Drill Method: Solid Stem Augers
Drill Date: January 25, 2022
Hole Size: 150 Millimetres
Drilling Contractor: Elements Geo

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130 Lancing Drive, Hamilton, ON L8W 3A1
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Field Logged by: MA
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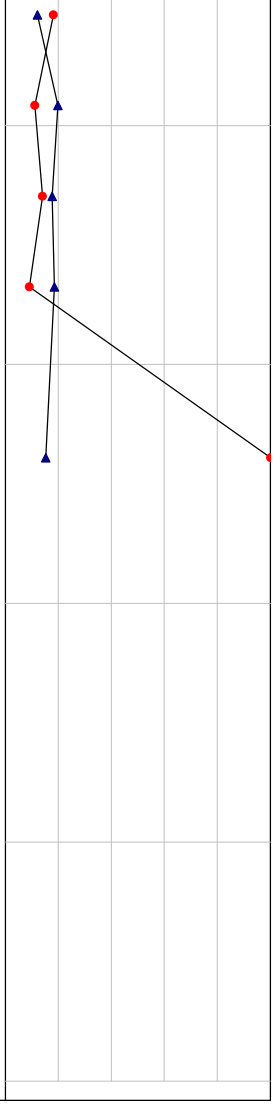
Log of Borehole No. 09

Project No: SM 301760-G
Project: Proposed Road Reconstruction
Location: Lundy's Lane, Niagara Falls
Client: Urban & Environmental Management Inc.

Project Manager: Adam Roemmele, P. Eng.
Borehole Location: See Drawing No. 4
UTM Coordinates - N: 4772460
E: 653698

Depth (ft / m)	Elevation (m)	Description	Well Data	SAMPLE Type	Number	Blow Counts	Blows/300mm	Recovery	PP (kgf/cm2)	U.Wt.(kN/m3)
0 / 0	0.00	Ground Surface								
0 / 0		**Pavement Structure** Approximately 175 millimetres of asphaltic concrete over 375 millimetres of compact granular base.								
0 / 0	-0.55	**Sandy Silt/Silt** Brown, trace to some clay, trace gravel in upper levels, reworked in upper levels, loose to very dense.		SS	1	11,10,8,6,7	18			
5 / 2				SS	2	4,6,5,7	11			
10 / 3				SS	3	4,6,8,10	14			
15 / 4				SS	4	4,5,4,6	9			
16 / 5	-5.00	End of Borehole		SS	5	20,33,50/5"	100			

Moisture Content w% (10 20 30 40)
Standard Penetration Test blows/300mm (20 40 60 80)



NOTES:

1. Borehole was advanced using solid stem auger equipment on January 25, 2022 to spoon refusal at a depth of 5.0 metres.

2. Borehole was recorded as open and 'dry' upon completion and backfilled as per Ontario Regulation 903.

3. Soil samples will be discarded after 3 months unless otherwise directed by our client.

Drill Method: Solid Stem Augers
Drill Date: January 25, 2022
Hole Size: 150 Millimetres
Drilling Contractor: Elements Geo

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Datum: Existing Road Surface
Field Logged by: MA
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Sheet: 1 of 1

Log of Borehole No. 10

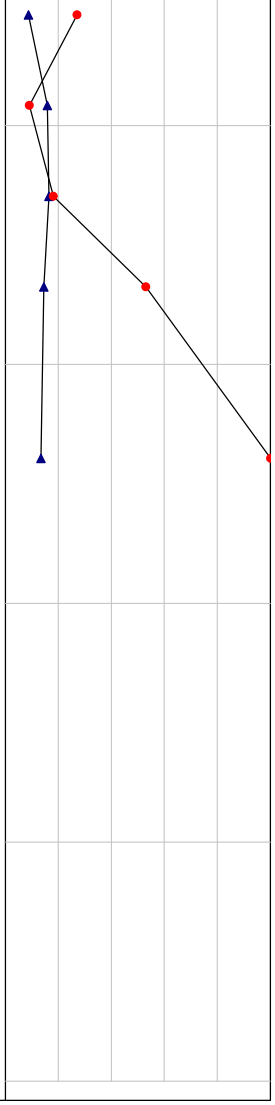
Project No: SM 301760-G
Project: Proposed Road Reconstruction
Location: Lundy's Lane, Niagara Falls
Client: Urban & Environmental Management Inc.

Project Manager: Adam Roemmele, P. Eng.
Borehole Location: See Drawing No. 4
UTM Coordinates - N: 4772457
E: 653733

Depth (ft / m)	Elevation (m)	Description	Well Data	SAMPLE Type	Number	Blow Counts	Blows/300mm	Recovery	PP (kgf/cm2)	U.Wt.(kN/m3)
0 / 0	0.00	Ground Surface								
0–2 / 0	0.00 to -0.73	**Pavement Structure** Approximately 200 millimetres of asphalt overlying 525 millimetres of granular fill								
2–5 / 1	-0.73 to -1.52	**Silty Sand/Sandy Silt Fill** Brown, trace gravel, dense.		SS	1	24,15,12,9, 10	27			
5–16 / 2–5	-1.52 to -5.00	**Sandy Silt/Silt** Brown, trace to some clay, trace gravel, reworked in upper level, loose to very dense.		SS SS SS SS	2 3 4 5	4,4,5,6 5,9,9,11 11,18,35,21 25,38,50/5"	9 18 53 100			
16 / 5	-5.00	End of Borehole								

Moisture Content w% (10 20 30 40)

Standard Penetration Test blows/300mm (20 40 60 80)



NOTES:

1. Borehole was advanced using solid stem auger equipment on January 27, 2022 to spoon refusal at a depth of 5.0 metres.

2. Borehole was recorded as open and 'dry' upon completion and backfilled as per Ontario Regulation 903.

3. Soil samples will be discarded after 3 months unless otherwise directed by our client.

Drill Method: Solid Stem Augers
Drill Date: January 27, 2022
Hole Size: 150 Millimetres
Drilling Contractor: Elements Geo

Soil-Mat Engineers & Consultants Ltd.
130 Lancing Drive, Hamilton, ON L8W 3A1
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E: info@soil-mat.ca

Datum: Existing Road Surface
Field Logged by: MA
Checked by: AR
Sheet: 1 of 1

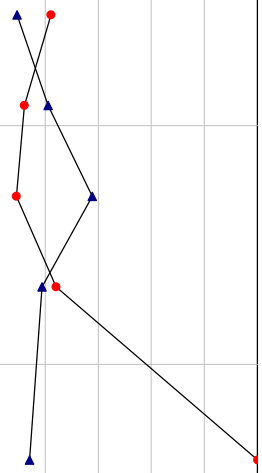
Log of Borehole No. 11

Project No: SM 301760-G
Project: Proposed Road Reconstruction
Location: Lundy's Lane, Niagara Falls
Client: Urban & Environmental Management Inc.

Project Manager: Adam Roemmele, P. Eng.
Borehole Location: See Drawing No. 5
UTM Coordinates - N: 4772468
E: 653858

Depth (ft / m)	Elevation (m)	Description	Well Data	SAMPLE Type	Number	Blow Counts	Blows/300mm	Recovery	PP (kgf/cm2)	U.Wt.(kN/m3)
0 / 0	0.00	Ground Surface								
0–2 / 0–0.7	-0.71	**Pavement Structure** Approximately 225 millimetres of asphalt overlying 475 millimetres of granular fill.								
2–8 / 0.7–2.6	-2.59	**Silty Sand/Sandy Silt Fill** Brown, trace to gravel, compact.		SS	1	13,12,10,10, 11	22			
				SS	2	4,5,7,7	12			
8–16 / 2.6–5.0	-5.03	**Sandy Silt/Silt** Brown, trace to some clay, reworked in upper levels, loose to very dense.		SS	3	4,5,4,4	9			
				SS	4	8,11,13,19	24			
				SS	5	20,35,50/6"	100			
16 / 5		End of Borehole								

Moisture Content w% (10 20 30 40)
Standard Penetration Test blows/300mm (20 40 60 80)



NOTES:

1. Borehole was advanced using solid stem auger equipment on January 25, 2022 to spoon refusal at a depth of 5.0 metres.

2. Borehole was recorded as open and 'dry' upon completion and backfilled as per Ontario Regulation 903.

3. Soil samples will be discarded after 3 months unless otherwise directed by our client.

Drill Method: Solid Stem Augers
Drill Date: January 25, 2022
Hole Size: 150 Millimetres
Drilling Contractor: Elements Geo

Soil-Mat Engineers & Consultants Ltd.
130 Lancing Drive, Hamilton, ON L8W 3A1
T: 905.318.7440 F: 905.318.7455
E: info@soil-mat.ca

Datum: Existing Road Surface
Field Logged by: MA
Checked by: AR
Sheet: 1 of 1

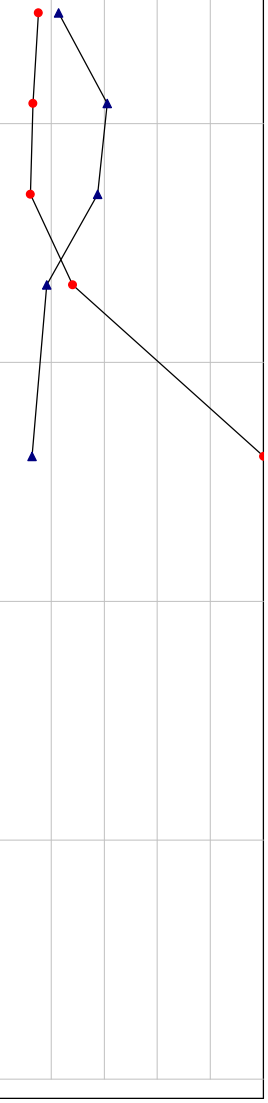
Log of Borehole No. 12

Project No: SM 301760-G
Project: Proposed Road Reconstruction
Location: Lundy's Lane, Niagara Falls
Client: Urban & Environmental Management Inc.

Project Manager: Adam Roemmele, P. Eng.
Borehole Location: See Drawing No. 5
UTM Coordinates - N: 4772466
E: 653977

Depth (ft / m)	Elevation (m)	Description	Well Data	SAMPLE Type	Number	Blow Counts	Blows/300mm	Recovery	PP (kgf/cm2)	U.Wt.(kN/m3)
0 / 0	0.00	Ground Surface								
0–2 / 0	-0.45	**Pavement Structure** Approximately 250 millimetres of asphaltic concrete over 200 millimetres of compact granular base.								
2–5 / 1	-1.57	**Silty Sand/Sandy Silt Fill** Brown, trace gravel, compact.		SS	1	6,7,8,7	15			
5–10 / 2	-3.05	**Clayey Silt/SiltyClay Fill** Brown, trace sand, gravel, and organics, stiff.		SS SS	2 3	5,6,7,8, 3,5,7,7	13 12			
10–16 / 3–5	-5.00	**Clayey Silt/Silt** Brown, trace to some clay, compact to very dense.		SS	4	7,13,15,19	28			
		End of Borehole		SS	5	22,40,50/5"	100			

Moisture Content w% (10 20 30 40)
Standard Penetration Test blows/300mm (20 40 60 80)



NOTES:

1. Borehole was advanced using solid stem auger equipment on January 24, 2022 to spoon refusal at a depth of 5.0 metres.

2. Borehole was recorded as open and 'dry' upon completion and backfilled as per Ontario Regulation 903.

3. Soil samples will be discarded after 3 months unless otherwise directed by our client.

Drill Method: Solid Stem Augers
Drill Date: January 24, 2022
Hole Size: 150 Millimetres
Drilling Contractor: Elements Geo

Soil-Mat Engineers & Consultants Ltd.
130 Lancing Drive, Hamilton, ON L8W 3A1
T: 905.318.7440 F: 905.318.7455
E: info@soil-mat.ca

Datum: Existing Road Surface
Field Logged by: MA
Checked by: AR
Sheet: 1 of 1

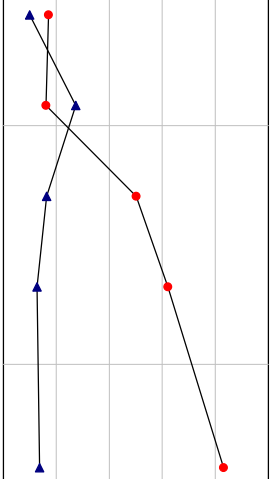
Log of Borehole No. 13

Project No: SM 301760-G
Project: Proposed Road Reconstruction
Location: Lundy's Lane, Niagara Falls
Client: Urban & Environmental Management Inc.

Project Manager: Adam Roemmele, P. Eng.
Borehole Location: See Drawing No. 5
UTM Coordinates - N: 4772479
E: 654096

Depth (ft / m)	Elevation (m)	Description	Well Data	SAMPLE Type	Number	Blow Counts	Blows/300mm	Recovery	PP (kgf/cm2)	U.Wt.(kN/m3)
0 / 0	0.00	Ground Surface								
0–2 / 0–0.6	-0.63	**Pavement Structure** Approximately 150 millimetres of asphaltic concrete over 475 millimetres of compact granular base.								
3–5 / 1–1.5	-1.52	**Silty Sand/Sandy Silt Fill** Brown, trace gravel, compact.		SS	1	11,9,8,7,7	17			
5–16 / 1.5–5	-5.16	**Sandyy Silt/Silt** Brown, trace to some clay, trace gravel, occasional rock fragment, compact to very dense.		SS SS SS SS	2 3 4 5	5,6,10,11 12,21,29,43 18,29,33, 50/5" 22,38,45, 50/5"	16 50 62 83			
16–33 / 5–10		End of Borehole								

Moisture Content w% (10 20 30 40)
Standard Penetration Test blows/300mm (20 40 60 80)



NOTES:

1. Borehole was advanced using solid stem auger equipment on January 27, 2022 to spoon refusal at a depth of 5.2 metres.

2. Borehole was recorded as open and 'dry' upon completion and backfilled as per Ontario Regulation 903.

3. Soil samples will be discarded after 3 months unless otherwise directed by our client.

Drill Method: Solid Stem Augers
Drill Date: January 27, 2022
Hole Size: 150 Millimetres
Drilling Contractor: Elements Geo

Soil-Mat Engineers & Consultants Ltd.
130 Lancing Drive, Hamilton, ON L8W 3A1
T: 905.318.7440 F: 905.318.7455
E: info@soil-mat.ca

Datum: Existing Road Surface
Field Logged by: MA
Checked by: AR
Sheet: 1 of 1

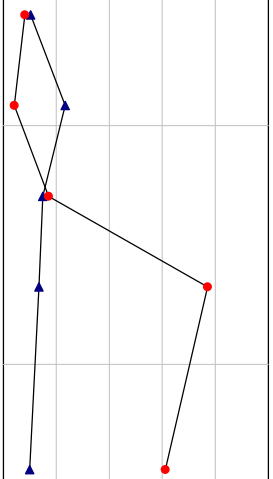
Log of Borehole No. 14

Project No: SM 301760-G
Project: Proposed Road Reconstruction
Location: Lundy's Lane, Niagara Falls
Client: Urban & Environmental Management Inc.

Project Manager: Adam Roemmele, P. Eng.
Borehole Location: See Drawing No. 5
UTM Coordinates - N: 4772472
E: 654176

Depth (ft / m)	Elevation (m)	Description	Well Data	SAMPLE Type	Number	Blow Counts	Blows/300mm	Recovery	PP (kgf/cm2)	U.Wt.(kN/m3)
0 / 0	0.00	Ground Surface								
0–2 / 0–1	-0.48	**Pavement Structure** Approximately 175 millimetres of asphaltic concrete over 300 millimetres of compact granular base.								
2–8 / 1–2	-2.59	**Silty Sand/Sandy Silt Fill** Brown, trace clay and gravel, occasional construction debris, loose to compact.		SS	1	6,5,3,3,4	8			
				SS	2	2,2,2,2	4			
				SS	3	7,8,9,17	17			
8–16 / 2–5	-5.18	**Sandy Silt/Silt** Brown, trace to some clay, trace gravel, compact to very dense.		SS	4	22,31,46, 50/5"	77			
				SS	5	18,27,34,37	61			
16 / 5		End of Borehole								

Moisture Content w% (10 20 30 40)
Standard Penetration Test blows/300mm (20 40 60 80)



NOTES:

1. Borehole was advanced using solid stem auger equipment on Feburary 1, 2022 to termination at a depth of 5.2 metres.

2. Borehole was recorded as open and 'dry' upon completion and backfilled as per Ontario Regulation 903.

3. Soil samples will be discarded after 3 months unless otherwise directed by our client.

Drill Method: Solid Stem Augers
Drill Date: February 1, 2022
Hole Size: 150 Millimetres
Drilling Contractor: Elements Geo

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T: 905.318.7440 F: 905.318.7455
E: info@soil-mat.ca

Datum: Existing Road Surface
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Sheet: 1 of 1

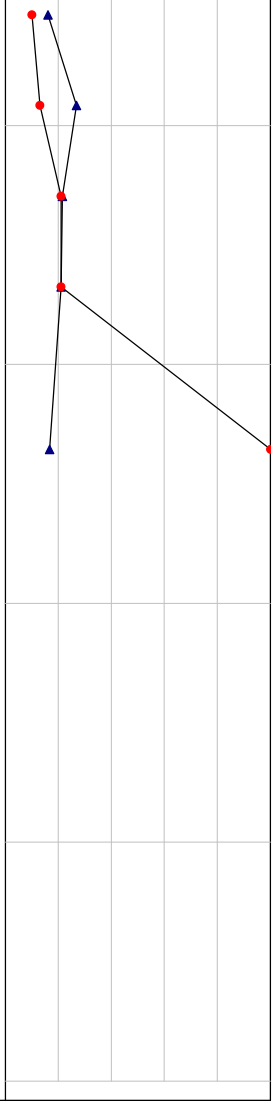
Log of Borehole No. 15

Project No: SM 301760-G
Project: Proposed Road Reconstruction
Location: Lundy's Lane, Niagara Falls
Client: Urban & Environmental Management Inc.

Project Manager: Adam Roemmele, P. Eng.
Borehole Location: See Drawing No. 5
UTM Coordinates - N: 4772483
E: 654250

Depth (ft / m)	Elevation (m)	Description	Well Data	SAMPLE Type	Number	Blow Counts	Blows/300mm	Recovery	PP (kgf/cm2)	U.Wt.(kN/m3)
0 / 0	0.00	Ground Surface								
0 / 0		**Pavement Structure** Approximately 125 millimetres of asphaltic concrete over 475 millimetres of compact granular base.								
3 / 1	-0.60	**Silty Sand/Sandy Silt Fill** Brown, trace gravel, compact.		SS	1	6,6,4,4,5	10			
6 / 2	-1.83	**Sandy Silt/Silt** Brown, trace to some clay, trace gravel, compact to very dense.		SS	2	5,6,7,10	13			
				SS	3	8,10,11,14	21			
				SS	4	8,10,11,16	21			
15 / 5	-4.85	End of Borehole		SS	5	20,50/5"	100			

Moisture Content w% (10 20 30 40)
Standard Penetration Test blows/300mm (20 40 60 80)



NOTES:

1. Borehole was advanced using solid stem auger equipment on January 27, 2022 to spoon refusal at a depth of 4.9 metres.

2. Borehole was recorded as open and 'dry' upon completion and backfilled as per Ontario Regulation 903.

3. Soil samples will be discarded after 3 months unless otherwise directed by our client.

Drill Method: Solid Stem Augers
Drill Date: January 27, 2022
Hole Size: 150 Millimetres
Drilling Contractor: Elements Geo

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130 Lancing Drive, Hamilton, ON L8W 3A1
T: 905.318.7440 F: 905.318.7455
E: info@soil-mat.ca

Datum: Existing Road Surface
Field Logged by: MA
Checked by: AR
Sheet: 1 of 1

Log of Borehole No. 16

Project No: SM 301760-G
Project: Proposed Road Reconstruction
Location: Lundy's Lane, Niagara Falls
Client: Urban & Environmental Management Inc.

Project Manager: Adam Roemmele, P. Eng.
Borehole Location: See Drawing No. 5
UTM Coordinates - N: 4772476
E: 654286

Depth (ft / m)	Elevation (m)	Description	Well Data	SAMPLE Type	Number	Blow Counts	Blows/300mm	Recovery	PP (kgf/cm2)	U.Wt.(kN/m3)
0 / 0	0.00	Ground Surface								
0–2 / 0–0.6	-0.70	**Pavement Structure** Approximately 225 millimetres of asphaltic concrete over 475 millimetres of compact granular base.								
2–6 / 0.6–1.8	-1.82	**Silty Sand/Sandy Silt Fill** Brown, some to trace gravel, compact.		SS	1	7,7,5,5,7	12			
				SS	2	4,6,7,9	13			
6–15 / 1.8–4.6	-4.88	**Sandy Silt/Silt** Brown, trace clay, trace gravel, occasional rock fragments, compact to very dense.		SS	3	7,11,15,17	26			
				SS	4	9,12,16,17	28			
15–16 / 4.6–4.9				SS	5	28,50/6"	100			
16 / 4.9		End of Borehole								

NOTES:

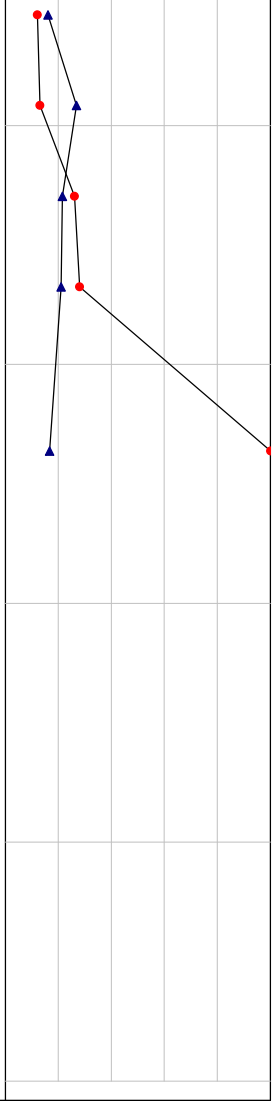
1. Borehole was advanced using solid stem auger equipment on February 1, 2022 to spoon refusal at a depth of 4.9 metres.

2. Borehole was recorded as open and 'dry' upon completion and backfilled as per Ontario Regulation 903.

3. Soil samples will be discarded after 3 months unless otherwise directed by our client.

Moisture Content w% (10 20 30 40)

Standard Penetration Test blows/300mm (20 40 60 80)



Drill Method: Solid Stem Augers
Drill Date: February 1, 2022
Hole Size: 150 Millimetres
Drilling Contractor: Elements Geo

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Log of Borehole No. 17

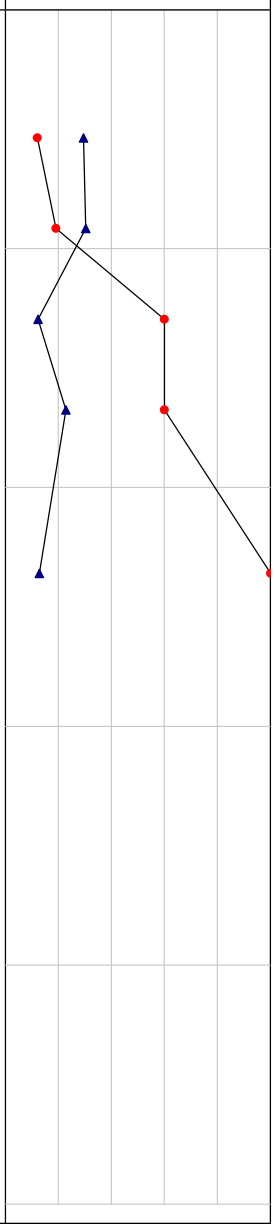
Project No: SM 301760-G
Project: Proposed Road Reconstruction
Location: Lundy's Lane, Niagara Falls
Client: Urban & Environmental Management Inc.

Project Manager: Adam Roemmele, P. Eng.
Borehole Location: See Drawing No. 5
UTM Coordinates - N: 4772490
E: 654372

Depth (ft / m)	Elevation (m)	Description	Well Data	SAMPLE Type	Number	Blow Counts	Blows/300mm	Recovery	PP (kgf/cm2)	U.Wt.(kN/m3)
0 / 0	0.00	Ground Surface								
0–2 / 0–1	0.00 to -0.70	**Pavement Structure** Approximately 200 millimetres of asphaltic concrete over 500 millimetres of compact granular base.								
2–3 / 1	-0.70 to -0.91	**Silty Sand/Sandy Silt Fill** Brown, trace gravel, loose.		SS	1	5,6,6,5,8	12			
3–10 / 1–3	-0.91 to -4.88	**Sandy Silt/Silt** Brown, trace to some clay, trace gravel, compact to very dense.		SS SS SS	2 3 4	5,8,11,10 9,22,38,49 9,22,38,50/6"	19 60 60			
15–16 / 4–5	-4.88	End of Borehole		SS	5	20,50/6"	100			

Moisture Content w% (10 20 30 40)

Standard Penetration Test blows/300mm (20 40 60 80)



NOTES:

1. Borehole was advanced using solid stem auger equipment on January 27, 2022 to spoon refusal at a depth of 4.9 metres.

2. Borehole was recorded as open and 'dry' upon completion and backfilled as per Ontario Regulation 903.

3. Soil samples will be discarded after 3 months unless otherwise directed by our client.

Drill Method: Solid Stem Augers
Drill Date: January 27, 2022
Hole Size: 150 Millimetres
Drilling Contractor: Elements Geo

Soil-Mat Engineers & Consultants Ltd.
130 Lancing Drive, Hamilton, ON L8W 3A1
T: 905.318.7440 F: 905.318.7455
E: info@soil-mat.ca

Datum: Existing Road Surface
Field Logged by: MA
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Sheet: 1 of 1

Log of Borehole No. 18

Project No: SM 301760-G
Project: Proposed Road Reconstruction
Location: Lundy's Lane, Niagara Falls
Client: Urban & Environmental Management Inc.

Project Manager: Adam Roemmele, P. Eng.
Borehole Location: See Drawing No. 5
UTM Coordinates - N: 4772482
E: 654800

Depth (ft)	Depth (m)	Elevation (m)	Description	Type	Number	Blow Counts	Blows/300mm	Recovery	PP (kgf/cm2)	U.Wt.(kN/m3)
		0.00	Ground Surface							
0	0		**Pavement Structure** Approximately 150 millimetres of asphaltic concrete over 550 millimetres of compact granular base.							
2		-0.70	**Sandy Silt/Silt** Brown, trace to some clay, trace gravel, reworked in the upper levels, compact to very dense.	SS	1	4,5,5,6,8	10			
3	1			SS	2	5,8,8,7	16			
7	2			SS	3	5,8,11,14	19			
10	3			SS	4	8,15,16,19	31			
16	5	-5.20	End of Borehole	SS	5	10,14,16,18	30			

Moisture Content w% (10 20 30 40)
Standard Penetration Test blows/300mm (20 40 60 80)



NOTES:

1. Borehole was advanced using solid stem auger equipment on February 1, 2022 to spoon refusal at a depth of 5.2 metres.

2. Borehole was recorded as open and 'dry' upon completion and backfilled as per Ontario Regulation 903.

3. Soil samples will be discarded after 3 months unless otherwise directed by our client.

Drill Method: Solid Stem Augers
Drill Date: February 1, 2022
Hole Size: 150 Millimetres
Drilling Contractor: Elements Geo

Soil-Mat Engineers & Consultants Ltd.
130 Lancing Drive, Hamilton, ON L8W 3A1
T: 905.318.7440 F: 905.318.7455
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Datum: Existing Road Surface
Field Logged by: MA
Checked by: AR
Sheet: 1 of 1

SM 301760-G Proposed Road Improvements:
Lundy's Lane - Asphalt Cores



Figure 1: Borehole 1 – Lundy's Lane



Figure 2: Borehole 4 – Lundy's Lane



Figure 3: Borehole 7– Lundy's Lane

SM 301760-G Proposed Road Improvements:
Lundy's Lane - Asphalt Cores



Figure 4: Borehole 10 – Lundy's Lane

SM 301760-G Proposed Road Improvements:
Lundy's Lane - Asphalt Cores



Figure 5: Borehole 13– Lundy's Lane



Figure 6: Borehole 16– Lundy's Lane

AGAT Laboratories

2910 12TH STREET NE
CALGARY, ALBERTA
CANADA T2E 7P7
TEL (403)735-2005
FAX (403)735-2771
http://www.agatlabs.com

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT
130 LANCING DRIVE
HAMILTON, ON L8W3A1
(905) 318-7440
ATTENTION TO: Adam Roemmele
PROJECT: SM301760
AGAT WORK ORDER: 22T858476
ROCK ANALYSIS REVIEWED BY: Jewel Shibu, Lab Supervisor
SOIL ANALYSIS REVIEWED BY: Jacky Zhu, Spectroscopy Technician
TRACE ORGANICS REVIEWED BY: Neli Popnikolova, Senior Chemist
DATE REPORTED: Feb 16, 2022
PAGES (INCLUDING COVER): 21
VERSION*: 2

Should you require any information regarding this analysis please contact your client services representative at (403) 735-2005

*Notes

VERSION 2:Version 2 supersedes work order 22T858476 Version 1, issued February 9, 2022. Complete.
VERSION 1:February 9, 2022 - Partial (excluding Sulphide)

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- *All samples will be disposed of within 30 days after receipt unless a Long Term Storage Agreement is signed and returned. Some specialty analysis may be exempt, please contact your Client Project Manager for details.*
- *AGAT's liability in connection with any delay, performance or non-performance of these services is only to the Client and does not extend to any other third party. Unless expressly agreed otherwise in writing, AGAT's liability is limited to the actual cost of the specific analysis or analyses included in the services.*
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- *The test results reported herewith relate only to the samples as received by the laboratory.*
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TEL (403)735-2005
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http://www.agatlabs.com

Certificate of Analysis

AGAT WORK ORDER: 22T858476

PROJECT: SM301760

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Adam Roemmele

SAMPLING SITE:Lundy's Lane

SAMPLED BY:MA

(283-042) Sulfide (CGY)

DATE RECEIVED: 2022-01-28

DATE REPORTED: 2022-02-16

			SAMPLE DESCRIPTION:	BH1 SS2	BH2 SS4	BH3 SS3	BH4 SS2	BH5 SS3	BH6 SS4	BH7 SS3	BH8 SS3
			SAMPLE TYPE:	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
			DATE SAMPLED:	2022-01-26	2022-01-26	2022-01-26	2022-01-26	2022-01-25	2022-01-27	2022-01-24	2022-01-25
Parameter	Unit	G / S	RDL	3464969	3464973	3464975	3464978	3464982	3464985	3464988	3464991
Sulfide	%		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

		SAMPLE DESCRIPTION:	BH9 SS3	BH10 SS4	BH11 SS3	BH12 SS3	BH13 SS4	BH15 SS4	BH17 SS3
		SAMPLE TYPE:	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:	2022-01-25	2022-01-27	2022-01-25	2022-01-24	2022-01-27	2022-01-27	2022-01-27
Parameter	Unit	G / S	RDL	3464994	3464997	3465000	3465003	3465006	3465009	3465011
Sulfide	%		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

Analysis performed at AGAT Calgary (unless marked by *)

Certified By:

Jewel Shibu

Results relate only to the items tested. Results apply to samples as received.

AGAT Laboratories

2910 12TH STREET NE
CALGARY, ALBERTA
CANADA T2E 7P7
TEL (403)735-2005
FAX (403)735-2771
http://www.agatlabs.com

Certificate of Analysis

AGAT WORK ORDER: 22T858476

PROJECT: SM301760

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Adam Roemmele

SAMPLING SITE:Lundy's Lane

SAMPLED BY:MA

Corrosivity Package

DATE RECEIVED: 2022-01-28

DATE REPORTED: 2022-02-16

		SAMPLE DESCRIPTION:		BH1 SS2	BH2 SS4	BH3 SS3	BH4 SS2	BH5 SS3	BH6 SS4	BH7 SS3	BH8 SS3
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2022-01-26	2022-01-26	2022-01-26	2022-01-26	2022-01-25	2022-01-27	2022-01-24	2022-01-25
Parameter	**Unit**	**G / S**	**RDL**	**3464969**	**3464973**	**3464975**	**3464978**	**3464982**	**3464985**	**3464988**	**3464991**
Chloride (2:1)	µg/g		2	3260	953	923	817	772	769	647	436
Sulphate (2:1)	µg/g		2	134	71	255	65	46	54	137	66
pH (2:1)	pH Units		NA	8.38	7.94	8.35	8.26	8.39	9.03	7.89	9.06
Electrical Conductivity (2:1)	mS/cm	0.57	0.005	**4.70**	**1.79**	**2.07**	**1.72**	**1.57**	**1.62**	**1.54**	**1.02**
Resistivity (2:1) (Calculated)	ohm.cm		1	213	559	483	581	637	617	649	980
Redox Potential 1	mV		NA	425	457	456	433	454	452	434	428
Redox Potential 2	mV		NA	430	465	459	434	454	452	434	433
Redox Potential 3	mV		NA	428	453	460	435	453	453	434	434

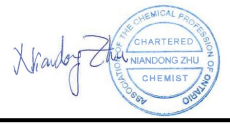
		SAMPLE DESCRIPTION:		BH9 SS3	BH10 SS4	BH11 SS3	BH12 SS3	BH13 SS4	BH15 SS4	BH17 SS3
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2022-01-25	2022-01-27	2022-01-25	2022-01-24	2022-01-27	2022-01-27	2022-01-27
Parameter	**Unit**	**G / S**	**RDL**	**3464994**	**3464997**	**3465000**	**3465003**	**3465006**	**3465009**	**3465011**
Chloride (2:1)	µg/g		2	557	411	248	1710	202	411	199
Sulphate (2:1)	µg/g		2	7	53	18	291	26	50	7
pH (2:1)	pH Units		NA	8.55	9.57	8.69	7.31	9.71	7.80	9.30
Electrical Conductivity (2:1)	mS/cm	0.57	0.005	**1.06**	**0.956**	0.532	**2.87**	**0.572**	**0.824**	0.464
Resistivity (2:1) (Calculated)	ohm.cm		1	943	1050	1880	348	1750	1210	2160
Redox Potential 1	mV		NA	441	416	433	411	417	378	362
Redox Potential 2	mV		NA	445	420	433	412	388	367	361
Redox Potential 3	mV		NA	450	421	433	413	387	363	360

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to O. Reg. 406/19 TABLE 1: Full Depth Background Site Condition - RPIC
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

3464969-3465011 EC, pH, Chloride and Sulphate were determined on the extract obtained from the 2:1 leaching procedure (2 parts DI water: 1 part soil). Resistivity is a calculated parameter.
Redox potential measured on as received sample. Due to the potential for rapid change in sample equilibrium chemistry with exposure to oxidative/reduction conditions laboratory results may differ from field measured results.
Redox potential measurement in soil is quite variable and non reproducible due in part, to the general heterogeneity of a given soil. It is also related to the introduction of increased oxygen into the sample after extraction. The interpretation of soil redox potential should be considered in terms of its general range rather than as an absolute measurement.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:



Results relate only to the items tested. Results apply to samples as received.

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Exceedance Summary

AGAT WORK ORDER: 22T858476

PROJECT: SM301760

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Adam Roemmele

SAMPLEID	SAMPLE TITLE	GUIDELINE	ANALYSIS PACKAGE	PARAMETER	UNIT	GUIDEVALUE	RESULT
3464969	BH1 SS2	ON 406/19 T1 RPIC	Corrosivity Package	Electrical Conductivity (2:1)	mS/cm	0.57	4.70
3464973	BH2 SS4	ON 406/19 T1 RPIC	Corrosivity Package	Electrical Conductivity (2:1)	mS/cm	0.57	1.79
3464975	BH3 SS3	ON 406/19 T1 RPIC	Corrosivity Package	Electrical Conductivity (2:1)	mS/cm	0.57	2.07
3464978	BH4 SS2	ON 406/19 T1 RPIC	Corrosivity Package	Electrical Conductivity (2:1)	mS/cm	0.57	1.72
3464982	BH5 SS3	ON 406/19 T1 RPIC	Corrosivity Package	Electrical Conductivity (2:1)	mS/cm	0.57	1.57
3464985	BH6 SS4	ON 406/19 T1 RPIC	Corrosivity Package	Electrical Conductivity (2:1)	mS/cm	0.57	1.62
3464988	BH7 SS3	ON 406/19 T1 RPIC	Corrosivity Package	Electrical Conductivity (2:1)	mS/cm	0.57	1.54
3464991	BH8 SS3	ON 406/19 T1 RPIC	Corrosivity Package	Electrical Conductivity (2:1)	mS/cm	0.57	1.02
3464994	BH9 SS3	ON 406/19 T1 RPIC	Corrosivity Package	Electrical Conductivity (2:1)	mS/cm	0.57	1.06
3464997	BH10 SS4	ON 406/19 T1 RPIC	Corrosivity Package	Electrical Conductivity (2:1)	mS/cm	0.57	0.956
3465003	BH12 SS3	ON 406/19 T1 RPIC	Corrosivity Package	Electrical Conductivity (2:1)	mS/cm	0.57	2.87
3465006	BH13 SS4	ON 406/19 T1 RPIC	Corrosivity Package	Electrical Conductivity (2:1)	mS/cm	0.57	0.572
3465009	BH15 SS4	ON 406/19 T1 RPIC	Corrosivity Package	Electrical Conductivity (2:1)	mS/cm	0.57	0.824

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Quality Assurance

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

AGAT WORK ORDER: 22T858476

PROJECT: SM301760

ATTENTION TO: Adam Roemmele

SAMPLING SITE:Lundy's Lane

SAMPLED BY:MA

Rock Analysis

RPT Date: Feb 16, 2022			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
(283-042) Sulfide (CGY)															
S	3461076		0.03	0.03	4.2%	< 0.025	96%	90%	110%						
Sulfate	3464988		0.02	0.02	1.7%	< 0.01	83%	80%	120%						

Certified By:

Jewel Shibu

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Quality Assurance

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

AGAT WORK ORDER: 22T858476

PROJECT: SM301760

ATTENTION TO: Adam Roemmele

SAMPLING SITE:Lundy's Lane

SAMPLED BY:MA

Soil Analysis

RPT Date: Feb 16, 2022			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - Metals & Inorganics (Soil)															
Antimony	3464953	3464953	<0.8	<0.8	NA	< 0.8	100%	70%	130%	101%	80%	120%	81%	70%	130%
Arsenic	3464953	3464953	3	3	NA	< 1	129%	70%	130%	109%	80%	120%	102%	70%	130%
Barium	3464953	3464953	43.4	43.7	0.7%	< 2.0	117%	70%	130%	107%	80%	120%	103%	70%	130%
Beryllium	3464953	3464953	<0.4	<0.4	NA	< 0.4	108%	70%	130%	86%	80%	120%	91%	70%	130%
Boron	3464953	3464953	6	6	NA	< 5	99%	70%	130%	100%	80%	120%	98%	70%	130%
Boron (Hot Water Soluble)	3464953	3464953	0.13	0.13	NA	< 0.10	107%	60%	140%	100%	70%	130%	110%	60%	140%
Cadmium	3464953	3464953	<0.5	<0.5	NA	< 0.5	114%	70%	130%	99%	80%	120%	108%	70%	130%
Chromium	3464953	3464953	12	12	NA	< 5	118%	70%	130%	111%	80%	120%	112%	70%	130%
Cobalt	3464953	3464953	5.5	5.3	3.7%	< 0.5	117%	70%	130%	111%	80%	120%	108%	70%	130%
Copper	3464953	3464953	11.7	11.3	3.5%	< 1.0	103%	70%	130%	115%	80%	120%	111%	70%	130%
Lead	3464953	3464953	4	4	NA	< 1	113%	70%	130%	109%	80%	120%	108%	70%	130%
Molybdenum	3464953	3464953	<0.5	<0.5	NA	< 0.5	123%	70%	130%	118%	80%	120%	113%	70%	130%
Nickel	3464953	3464953	13	12	8.0%	< 1	113%	70%	130%	108%	80%	120%	107%	70%	130%
Selenium	3464953	3464953	<0.8	<0.8	NA	< 0.8	135%	70%	130%	109%	80%	120%	109%	70%	130%
Silver	3464953	3464953	<0.5	<0.5	NA	< 0.5	113%	70%	130%	110%	80%	120%	102%	70%	130%
Thallium	3464953	3464953	<0.5	<0.5	NA	< 0.5	118%	70%	130%	105%	80%	120%	100%	70%	130%
Uranium	3464953	3464953	0.59	0.61	NA	< 0.50	118%	70%	130%	108%	80%	120%	107%	70%	130%
Vanadium	3464953	3464953	19.7	19.8	0.5%	< 0.4	121%	70%	130%	103%	80%	120%	104%	70%	130%
Zinc	3464953	3464953	29	30	3.4%	< 5	120%	70%	130%	110%	80%	120%	109%	70%	130%
Chromium, Hexavalent	3464996	3464996	<0.2	<0.2	NA	< 0.2	104%	70%	130%	90%	80%	120%	91%	70%	130%
Cyanide, Free	3464980	3464980	<0.040	<0.040	NA	< 0.040	105%	70%	130%	102%	80%	120%	101%	70%	130%
Mercury	3464953	3464953	<0.10	<0.10	NA	< 0.10	113%	70%	130%	100%	80%	120%	99%	70%	130%
Electrical Conductivity (2:1)	3464953	3464953	2.31	2.44	5.5%	< 0.005	105%	80%	120%						
Sodium Adsorption Ratio (2:1) (Calc.)	3464953	3464953	100	91.1	9.3%	NA									
pH, 2:1 CaCl2 Extraction	3464970	3464970	6.28	6.41	2.0%	NA	94%	80%	120%						

Comments: For a multi-element scan for lab control standards and matrix spikes, up to 10% of analytes may exceed the quoted limits by up to 10% absolute and it is considered acceptable.

O. Reg. 153(511) - Metals & Inorganics (Soil)															
Antimony	3465008	3465008	<0.8	<0.8	NA	< 0.8	127%	70%	130%	108%	80%	120%	91%	70%	130%
Arsenic	3465008	3465008	3	2	NA	< 1	128%	70%	130%	102%	80%	120%	103%	70%	130%
Barium	3465008	3465008	26.4	27.7	4.8%	< 2.0	109%	70%	130%	105%	80%	120%	105%	70%	130%
Beryllium	3465008	3465008	<0.4	<0.4	NA	< 0.4	95%	70%	130%	114%	80%	120%	115%	70%	130%
Boron	3465008	3465008	<5	<5	NA	< 5	92%	70%	130%	114%	80%	120%	106%	70%	130%
Boron (Hot Water Soluble)	3465008	3465008	<0.10	<0.10	NA	< 0.10	86%	60%	140%	99%	70%	130%	107%	60%	140%
Cadmium	3465008	3465008	<0.5	<0.5	NA	< 0.5	105%	70%	130%	110%	80%	120%	111%	70%	130%
Chromium	3465008	3465008	13	13	NA	< 5	115%	70%	130%	112%	80%	120%	106%	70%	130%
Cobalt	3465008	3465008	4.7	4.8	2.1%	< 0.5	117%	70%	130%	111%	80%	120%	110%	70%	130%
Copper	3465008	3465008	10.4	10.2	1.9%	< 1.0	107%	70%	130%	114%	80%	120%	109%	70%	130%

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Quality Assurance

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

AGAT WORK ORDER: 22T858476

PROJECT: SM301760

ATTENTION TO: Adam Roemmele

SAMPLING SITE:Lundy's Lane

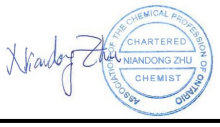
SAMPLED BY:MA

Soil Analysis (Continued)

RPT Date: Feb 16, 2022			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
Lead	3465008	3465008	4	4	NA	< 1	111%	70%	130%	111%	80%	120%	105%	70%	130%
Molybdenum	3465008	3465008	0.8	0.8	NA	< 0.5	121%	70%	130%	112%	80%	120%	113%	70%	130%
Nickel	3465008	3465008	12	12	0.0%	< 1	115%	70%	130%	112%	80%	120%	107%	70%	130%
Selenium	3465008	3465008	<0.8	<0.8	NA	< 0.8	119%	70%	130%	109%	80%	120%	108%	70%	130%
Silver	3465008	3465008	<0.5	<0.5	NA	< 0.5	107%	70%	130%	110%	80%	120%	108%	70%	130%
Thallium	3465008	3465008	<0.5	<0.5	NA	< 0.5	109%	70%	130%	103%	80%	120%	100%	70%	130%
Uranium	3465008	3465008	<0.50	<0.50	NA	< 0.50	118%	70%	130%	110%	80%	120%	106%	70%	130%
Vanadium	3465008	3465008	17.8	17.1	4.0%	< 0.4	127%	70%	130%	113%	80%	120%	112%	70%	130%
Zinc	3465008	3465008	24	32	NA	< 5	119%	70%	130%	113%	80%	120%	110%	70%	130%
Mercury	3465008	3465008	<0.10	<0.10	NA	< 0.10	114%	70%	130%	105%	80%	120%	104%	70%	130%
Sodium Adsorption Ratio (2:1) (Calc.)	3465008	3465008	39.7	40.1	1.0%	NA									
pH, 2:1 CaCl2 Extraction	3464999	3464999	6.23	6.27	0.6%	NA	99%	80%	120%						
O. Reg. 153(511) - Metals & Inorganics (Soil)															
pH, 2:1 CaCl2 Extraction	3476370		7.05	7.28	3.2%	NA	99%	80%	120%						
Corrosivity Package															
Chloride (2:1)	3464988	3464988	647	675	4.2%	< 2	94%	70%	130%	107%	80%	120%	NA	70%	130%
Sulphate (2:1)	3464988	3464988	137	137	0.0%	< 2	98%	70%	130%	102%	80%	120%	99%	70%	130%
pH (2:1)	3464988	3464988	7.89	7.93	0.5%	NA	100%	80%	120%						
Electrical Conductivity (2:1)	3464953	3464953	2.31	2.44	5.5%	< 0.005	105%	80%	120%						
Redox Potential 1	3464969						100%	90%	110%						

Comments: NA signifies Not Applicable.
pH duplicates QA acceptance criteria was met relative as stated in Table 5-15 of Analytical Protocol document.
Duplicate NA: results are under 5X the RDL and will not be calculated.
Matrix spike: Spike level < native concentration. Matrix spike acceptance limits do not apply.

Certified By:



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Quality Assurance

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

AGAT WORK ORDER: 22T858476

PROJECT: SM301760

ATTENTION TO: Adam Roemmele

SAMPLING SITE:Lundy's Lane

SAMPLED BY:MA

Trace Organics Analysis

RPT Date: Feb 16, 2022			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - PHCs F1 - F4 (with PAHs and VOC) (Soil)															
F1 (C6 - C10)	3464996	3464996	<5	<5	NA	< 5	84%	60%	140%	91%	60%	140%	94%	60%	140%
F2 (C10 to C16)	3451889		< 10	< 10	NA	< 10	96%	60%	140%	115%	60%	140%	65%	60%	140%
F3 (C16 to C34)	3451889		< 50	< 50	NA	< 50	89%	60%	140%	117%	60%	140%	68%	60%	140%
F4 (C34 to C50)	3451889		< 50	< 50	NA	< 50	89%	60%	140%	122%	60%	140%	72%	60%	140%
O. Reg. 406/19 - VOCs (Soil)															
Dichlorodifluoromethane	3464980	3464980	<0.05	<0.05	NA	< 0.05	60%	50%	140%	81%	50%	140%	85%	50%	140%
Vinyl Chloride	3464980	3464980	<0.02	<0.02	NA	< 0.02	104%	50%	140%	109%	50%	140%	109%	50%	140%
Bromomethane	3464980	3464980	<0.05	<0.05	NA	< 0.05	80%	50%	140%	82%	50%	140%	80%	50%	140%
Trichlorofluoromethane	3464980	3464980	<0.05	<0.05	NA	< 0.05	74%	50%	140%	77%	50%	140%	92%	50%	140%
Acetone	3464980	3464980	<0.50	<0.50	NA	< 0.50	114%	50%	140%	104%	50%	140%	106%	50%	140%
1,1-Dichloroethylene	3464980	3464980	<0.05	<0.05	NA	< 0.05	77%	50%	140%	80%	60%	130%	83%	50%	140%
Methylene Chloride	3464980	3464980	<0.05	<0.05	NA	< 0.05	71%	50%	140%	74%	60%	130%	74%	50%	140%
Trans- 1,2-Dichloroethylene	3464980	3464980	<0.05	<0.05	NA	< 0.05	76%	50%	140%	84%	60%	130%	79%	50%	140%
Methyl tert-butyl Ether	3464980	3464980	<0.05	<0.05	NA	< 0.05	74%	50%	140%	77%	60%	130%	83%	50%	140%
1,1-Dichloroethane	3464980	3464980	<0.02	<0.02	NA	< 0.02	74%	50%	140%	86%	60%	130%	83%	50%	140%
Methyl Ethyl Ketone	3464980	3464980	<0.50	<0.50	NA	< 0.50	90%	50%	140%	93%	50%	140%	96%	50%	140%
Cis- 1,2-Dichloroethylene	3464980	3464980	<0.02	<0.02	NA	< 0.02	71%	50%	140%	84%	60%	130%	80%	50%	140%
Chloroform	3464980	3464980	<0.04	<0.04	NA	< 0.04	80%	50%	140%	94%	60%	130%	91%	50%	140%
1,2-Dichloroethane	3464980	3464980	<0.03	<0.03	NA	< 0.03	74%	50%	140%	85%	60%	130%	92%	50%	140%
1,1,1-Trichloroethane	3464980	3464980	<0.05	<0.05	NA	< 0.05	75%	50%	140%	85%	60%	130%	91%	50%	140%
Carbon Tetrachloride	3464980	3464980	<0.05	<0.05	NA	< 0.05	79%	50%	140%	79%	60%	130%	76%	50%	140%
Benzene	3464980	3464980	<0.02	<0.02	NA	< 0.02	73%	50%	140%	74%	60%	130%	86%	50%	140%
1,2-Dichloropropane	3464980	3464980	<0.03	<0.03	NA	< 0.03	80%	50%	140%	78%	60%	130%	81%	50%	140%
Trichloroethylene	3464980	3464980	<0.03	<0.03	NA	< 0.03	91%	50%	140%	75%	60%	130%	81%	50%	140%
Bromodichloromethane	3464980	3464980	<0.05	<0.05	NA	< 0.05	74%	50%	140%	78%	60%	130%	77%	50%	140%
Methyl Isobutyl Ketone	3464980	3464980	<0.50	<0.50	NA	< 0.50	87%	50%	140%	93%	50%	140%	102%	50%	140%
1,1,2-Trichloroethane	3464980	3464980	<0.04	<0.04	NA	< 0.04	110%	50%	140%	94%	60%	130%	100%	50%	140%
Toluene	3464980	3464980	<0.05	<0.05	NA	< 0.05	116%	50%	140%	90%	60%	130%	86%	50%	140%
Dibromochloromethane	3464980	3464980	<0.05	<0.05	NA	< 0.05	101%	50%	140%	83%	60%	130%	84%	50%	140%
Ethylene Dibromide	3464980	3464980	<0.04	<0.04	NA	< 0.04	95%	50%	140%	86%	60%	130%	92%	50%	140%
Tetrachloroethylene	3464980	3464980	<0.05	<0.05	NA	< 0.05	105%	50%	140%	80%	60%	130%	87%	50%	140%
1,1,1,2-Tetrachloroethane	3464980	3464980	<0.04	<0.04	NA	< 0.04	97%	50%	140%	88%	60%	130%	83%	50%	140%
Chlorobenzene	3464980	3464980	<0.05	<0.05	NA	< 0.05	106%	50%	140%	89%	60%	130%	84%	50%	140%
Ethylbenzene	3464980	3464980	<0.05	<0.05	NA	< 0.05	102%	50%	140%	77%	60%	130%	71%	50%	140%
m & p-Xylene	3464980	3464980	<0.05	<0.05	NA	< 0.05	106%	50%	140%	99%	60%	130%	91%	50%	140%
Bromoform	3464980	3464980	<0.05	<0.05	NA	< 0.05	104%	50%	140%	93%	60%	130%	95%	50%	140%
Styrene	3464980	3464980	<0.05	<0.05	NA	< 0.05	84%	50%	140%	71%	60%	130%	74%	50%	140%
1,1,2,2-Tetrachloroethane	3464980	3464980	<0.05	<0.05	NA	< 0.05	107%	50%	140%	102%	60%	130%	101%	50%	140%
o-Xylene	3464980	3464980	<0.05	<0.05	NA	< 0.05	117%	50%	140%	90%	60%	130%	84%	50%	140%

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AGAT Laboratories

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Quality Assurance

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

AGAT WORK ORDER: 22T858476

PROJECT: SM301760

ATTENTION TO: Adam Roemmele

SAMPLING SITE:Lundy's Lane

SAMPLED BY:MA

Trace Organics Analysis (Continued)

RPT Date: Feb 16, 2022			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
1,3-Dichlorobenzene	3464980	3464980	<0.05	<0.05	NA	< 0.05	96%	50%	140%	99%	60%	130%	93%	50%	140%
1,4-Dichlorobenzene	3464980	3464980	<0.05	<0.05	NA	< 0.05	105%	50%	140%	99%	60%	130%	92%	50%	140%
1,2-Dichlorobenzene	3464980	3464980	<0.05	<0.05	NA	< 0.05	104%	50%	140%	89%	60%	130%	89%	50%	140%
n-Hexane	3464980	3464980	<0.05	<0.05	NA	< 0.05	108%	50%	140%	98%	60%	130%	99%	50%	140%

Comments: When the average of the sample and duplicate results is less than 5x the RDL, the Relative Percent Difference (RPD) will be indicated as Not Applicable (NA).

O. Reg. 153(511) - PHCs F1 - F4 (with PAHs and VOC) (Soil)

F1 (C6 - C10)	3599992	21	21	NA	< 5	88%	60%	140%	95%	60%	140%	97%	60%	140%

O. Reg. 153(511) - PHCs F1 - F4 (with PAHs) (Soil)

Benzene	3464971	NA	NA	NA	< 0.02	86%	60%	140%	97%	60%	140%	NA	60%	140%
Toluene	3464971	NA	NA	NA	< 0.05	91%	60%	140%	96%	60%	140%	NA	60%	140%
Ethylbenzene	3464971	NA	NA	NA	< 0.05	94%	60%	140%	91%	60%	140%	NA	60%	140%
m & p-Xylene	3464971	NA	NA	NA	< 0.05	90%	60%	140%	100%	60%	140%	NA	60%	140%
o-Xylene	3464971	NA	NA	NA	< 0.05	108%	60%	140%	94%	60%	140%	NA	60%	140%
F1 (C6 - C10)	3464971	NA	NA	NA	< 5	99%	60%	140%	NA	60%	140%	NA	60%	140%

Certified By: N Popnikolof

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QC Exceedance

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

AGAT WORK ORDER: 22T858476

PROJECT: SM301760

ATTENTION TO: Adam Roemmele

RPT Date: Feb 16, 2022		REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Sample Id	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
			Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - Metals & Inorganics (Soil)										
Selenium	3464953	135%	70%	130%	109%	80%	120%	109%	70%	130%

Comments: For a multi-element scan for lab control standards and matrix spikes, up to 10% of analytes may exceed the quoted limits by up to 10% absolute and it is considered acceptable.

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Method Summary

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

AGAT WORK ORDER: 22T858476

PROJECT: SM301760

ATTENTION TO: Adam Roemmele

SAMPLING SITE:Lundy's Lane

SAMPLED BY:MA

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Rock Analysis			
Sulfide			N/A

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Method Summary

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

AGAT WORK ORDER: 22T858476

PROJECT: SM301760

ATTENTION TO: Adam Roemmele

SAMPLING SITE:Lundy's Lane

SAMPLED BY:MA

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Soil Analysis			
Chloride (2:1)	INOR-93-6004	modified from SM 4110 B	ION CHROMATOGRAPH
Sulphate (2:1)	INOR-93-6004	modified from SM 4110 B	ION CHROMATOGRAPH
pH (2:1)	INOR 93-6031	modified from EPA 9045D and MCKEAGUE 3.11	PH METER
Electrical Conductivity (2:1)	INOR-93-6036	modified from MSA PART 3, CH 14 and SM 2510 B	EC METER
Resistivity (2:1) (Calculated)	INOR-93-6036	McKeague 4.12, SM 2510 B,SSA #5 Part 3	CALCULATION
Redox Potential 1	INOR-93-6066	G200-20, SM 2580 B	REDOX POTENTIAL ELECTRODE
Redox Potential 2	INOR-93-6066	G200-20, SM 2580 B	REDOX POTENTIAL ELECTRODE
Redox Potential 3	INOR-93-6066	G200-20, SM 2580 B	REDOX POTENTIAL ELECTRODE
Antimony	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Arsenic	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Barium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Beryllium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Boron	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Boron (Hot Water Soluble)	MET-93-6104	modified from EPA 6010D and MSA PART 3, CH 21	ICP/OES
Cadmium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Chromium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Cobalt	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Copper	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Lead	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Molybdenum	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Nickel	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Selenium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Silver	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Thallium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Uranium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Vanadium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Zinc	MET 93 -6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Chromium, Hexavalent	INOR-93-6068	modified from EPA 3060 and EPA 7196	SPECTROPHOTOMETER
Cyanide, Free	INOR-93-6052	modified from ON MOECC E3015, SM 4500-CN- I, G-387	TECHNICON AUTO ANALYZER
Mercury	MET-93-6103	modified from EPA 7471B and SM 3112 B	ICP-MS

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Method Summary

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

AGAT WORK ORDER: 22T858476

PROJECT: SM301760

ATTENTION TO: Adam Roemmele

SAMPLING SITE:Lundy's Lane

SAMPLED BY:MA

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Sodium Adsorption Ratio (2:1) (Calc.)	INOR-93-6007	modified from EPA 6010D & Analytical Protocol	ICP/OES
pH, 2:1 CaCl2 Extraction	INOR-93-6031	modified from EPA 9045D and MCKEAGUE 3.11	PH METER

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Method Summary

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT | **AGAT WORK ORDER: 22T858476**

PROJECT: SM301760 | **ATTENTION TO: Adam Roemmele**

SAMPLING SITE:Lundy's Lane | **SAMPLED BY:MA**

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Naphthalene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Acenaphthylene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Acenaphthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Fluorene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Phenanthrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Anthracene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Fluoranthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Pyrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benz(a)anthracene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Chrysene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(b)fluoranthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(k)fluoranthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(a)pyrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Indeno(1,2,3-cd)pyrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Dibenz(a,h)anthracene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(g,h,i)perylene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
1 and 2 Methlynaphthalene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Naphthalene-d8	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Acridine-d9	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Terphenyl-d14	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Moisture Content	VOL-91-5009	CCME Tier 1 Method	BALANCE
F1 (C6 - C10)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/FID
F1 (C6 to C10) minus BTEX	VOL-91-5009	modified from CCME Tier 1 Method	P&T GC/FID
Toluene-d8	VOL-91-5009	modified from EPA SW-846 5030C & 8260D	(P&T)GC/MS
F2 (C10 to C16)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F2 (C10 to C16) minus Naphthalene	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34) minus PAHs	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F4 (C34 to C50)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
Gravimetric Heavy Hydrocarbons	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Terphenyl	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
Benzene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Toluene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS

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Method Summary

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

AGAT WORK ORDER: 22T858476

PROJECT: SM301760

ATTENTION TO: Adam Roemmele

SAMPLING SITE:Lundy's Lane

SAMPLED BY:MA

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Ethylbenzene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
m & p-Xylene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
o-Xylene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Xylenes (Total)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Dichlorodifluoromethane	VOL-91-5002	EPA SW-846 5035 & 8260D	(P&T)GC/MS
Vinyl Chloride	VOL-91-5002	EPA SW-846 5035 & 8260D	(P&T)GC/MS
Bromomethane	VOL-91-5002	EPA SW-846 5035 & 8260D	(P&T)GC/MS
Trichlorofluoromethane	VOL-91-5002	EPA SW-846 5035 & 8260D	(P&T)GC/MS
Acetone	VOL-91-5002	EPA SW-846 5035 & 8260D	(P&T)GC/MS
1,1-Dichloroethylene	VOL-91-5002	EPA SW-846 5035 & 8260D	(P&T)GC/MS
Methylene Chloride	VOL-91-5002	EPA SW-846 5035 & 8260D	(P&T)GC/MS
Trans- 1,2-Dichloroethylene	VOL-91-5002	EPA SW-846 5035 & 8260D	(P&T)GC/MS
Methyl tert-butyl Ether	VOL-91-5002	EPA SW-846 5035 & 8260D	(P&T)GC/MS
1,1-Dichloroethane	VOL-91-5002	EPA SW-846 5035 & 8260D	(P&T)GC/MS
Methyl Ethyl Ketone	VOL-91-5002	EPA SW-846 5035 & 8260D	(P&T)GC/MS
Cis- 1,2-Dichloroethylene	VOL-91-5002	EPA SW-846 5035 & 8260D	(P&T)GC/MS
Chloroform	VOL-91-5002	EPA SW-846 5035 & 8260D	(P&T)GC/MS
1,2-Dichloroethane	VOL-91-5002	EPA SW-846 5035 & 8260D	(P&T)GC/MS
1,1,1-Trichloroethane	VOL-91-5002	EPA SW-846 5035 & 8260D	(P&T)GC/MS
Carbon Tetrachloride	VOL-91-5002	EPA SW-846 5035 & 8260D	(P&T)GC/MS
Benzene	VOL-91-5002	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
1,2-Dichloropropane	VOL-91-5002	EPA SW-846 5035 & 8260D	(P&T)GC/MS
Trichloroethylene	VOL-91-5002	EPA SW-846 5035 & 8260D	(P&T)GC/MS
Bromodichloromethane	VOL-91-5002	EPA SW-846 5035 & 8260D	(P&T)GC/MS
Methyl Isobutyl Ketone	VOL-91-5002	EPA SW-846 5035 & 8260D	(P&T)GC/MS
1,1,2-Trichloroethane	VOL-91-5002	EPA SW-846 5035 & 8260D	(P&T)GC/MS
Toluene	VOL-91-5002	EPA SW-846 5035 & 8260D	(P&T)GC/MS
Dibromochloromethane	VOL-91-5002	EPA SW-846 5035 & 8260D	(P&T)GC/MS
Ethylene Dibromide	VOL-91-5002	EPA SW-846 5035 & 8260D	(P&T)GC/MS
Tetrachloroethylene	VOL-91-5002	EPA SW-846 5035 & 8260D	(P&T)GC/MS
1,1,1,2-Tetrachloroethane	VOL-91-5002	EPA SW-846 5035 & 8260D	(P&T)GC/MS
Chlorobenzene	VOL-91-5002	EPA SW-846 5035 & 8260D	(P&T)GC/MS
Ethylbenzene	VOL-91-5002	EPA SW-846 5035 & 8260D	(P&T)GC/MS
m & p-Xylene	VOL-91-5002	EPA SW-846 5035 & 8260D	(P&T)GC/MS
Bromoform	VOL-91-5002	EPA SW-846 5035 & 8260D	(P&T)GC/MS
Styrene	VOL-91-5002	EPA SW-846 5035 & 8260D	(P&T)GC/MS
1,1,2,2-Tetrachloroethane	VOL-91-5002	EPA SW-846 5035 & 8260D	(P&T)GC/MS
o-Xylene	VOL-91-5002	EPA SW-846 5035 & 8260D	(P&T)GC/MS
1,3-Dichlorobenzene	VOL-91-5002	EPA SW-846 5035 & 8260D	(P&T)GC/MS
1,4-Dichlorobenzene	VOL-91-5002	EPA SW-846 5035 & 8260D	(P&T)GC/MS
1,2-Dichlorobenzene	VOL-91-5002	EPA SW-846 5035 & 8260D	(P&T)GC/MS
Xylenes (Total)	VOL-91-5002	EPA SW-846 5035 & 8260D	(P&T)GC/MS
1,3-Dichloropropene (Cis + Trans)	VOL-91-5002	EPA SW-846 5035 & 8260D	(P&T)GC/MS
n-Hexane	VOL-91-5002	EPA SW-846 5035 & 8260D	(P&T)GC/MS
Toluene-d8	VOL-91-5002	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
4-Bromofluorobenzene	VOL-91-5002	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS

Results relate only to the items tested. Results apply to samples as received.

3 COOLERS

AGAT Laboratories
5835 Coopers Avenue
Mississauga, Ontario L4Z 1Y2
Ph: 905.712.5100 Fax: 905.712.5122
webearth.agatlabs.com

Chain of Custody Record

If this is a Drinking Water sample, please use Drinking Water Chain of Custody Form (potable water consumed by humans)

Report Information:

Company: Soil-Mat
Contact: Adam Roemmele
Address:
Phone: Fax:
Reports to be sent to:
1. Email: aroemmele@soil-mat.ca
2. Email: Maccettone@soil-mat.ca

Project Information:

Project: SM301760
Site Location: Lundy's Lane
Sampled By: MA
AGAT Quote #: 441598 PO:
Please note: if quotation number is not provided, client will be billed full price for analysis.

Invoice Information:

Bill To Same: Yes ☐ No ☐
Company:
Contact:
Address:
Email:

Regulatory Requirements:

(Please check all applicable boxes)

☐ Regulation 153/04
Table (Indicate One) ☐ Ind/Com ☐ Res/Park ☐ Agriculture
Soil Texture (Check One) ☐ Coarse ☐ Fine

☑ Excess Soils R406
Table 1RPI/ICC (Indicate One)
☐ Regulation 558
☐ CCME

☐ Sewer Use ☐ Sanitary ☐ Storm
(Region)
☐ Prov. Water Quality Objectives (PWQO)
☐ Other
(Indicate One)

Is this submission for a Record of Site Condition? ☐ Yes ☐ No

Report Guideline on *Certificate of Analysis* ☐ Yes ☐ No

Sample Matrix Legend

B	Biota
GW	Ground Water
O	Oil
P	Paint
S	Soil
SD	Sediment
SW	Surface Water

Laboratory Use Only

Work Order #: 22T858476.
Cooler Quantity:
Arrival Temperatures: 2.1 1.9 2.5 1.8 1.5 1.7
Custody Seal Intact: ☐ Yes ☐ No ☐ N/A
Notes: FREE ICE

Turnaround Time (TAT) Required:

Regular TAT ☑ 5 to 7 Business Days
Rush TAT (Rush Surcharges Apply)
☐ 3 Business Days ☐ 2 Business Days ☐ Next Business Day
OR Date Required (Rush Surcharges May Apply):
Please provide prior notification for rush TAT
**TAT is exclusive of weekends and statutory holidays*
For 'Same Day' analysis, please contact your AGAT CPM

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI, DOC Y/N	O. Reg 153: Metals & Inorganics	O. Reg 153: Metals - ☐ CrVI, ☐ Hg, ☐ HWSB	O. Reg 153: BTEX, F1-F4 PHCs Analyze F4G if required ☐ Yes ☐ No	O. Reg 153: PAHs	O. Reg 153: PCBs	O. Reg 153: VOC	O. Reg 558: Landfill Disposal Characterization TCLP: ☑ M&I ☐ VOCs ☐ ABNs ☑ B(a)P ☐ PCBs	O. Reg 406: Excess Soils SPLP Rainwater Leach SPLP: ☐ Metals ☐ VOCs ☐ SVOCs	O. Reg 406: Excess Soils Characterization Package pH, ICPMS Metals, BTEX, F1-F4	Salt - EC/SAR	Corrosivity	Potentially Hazardous or High Concentration (Y/N)
BH1 SS1	26 Jan 2022	am	4	s			☑		☑	☑		☑						
BH1 SS2	26 Jan 2022	am	1	s													☑	
BH1 SS3	26 Jan 2022	am	4	s			☑		☑	☑		☑						
BH2 SS1	25 Jan 2022	am	4	s			☑		☑	☑								
BH2 SS2	25 Jan 2022	am	4	s			☑		☑	☑								
BH2 SS4	25 Jan 2022	am	1	s													☑	
BH3 SS1	26 Jan 2022	am	4	s			☑		☑	☑								
BH3 SS3	26 Jan 2022	am	1	s													☑	
BH3 SS4	26 Jan 2022	am	4	s			☑		☑	☑								

Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
Stephen Dhanraj	01/28/22	21:30 PM	Stephen Dhanraj	01/28/22	7:55 PM
Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time

Page 1 of 5
N°:

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AGAT Laboratories
5835 Coopers Avenue
Mississauga, Ontario L4Z 1Y2
Ph: 905.712.5100 Fax: 905.712.5122
webearth.agatlabs.com

Chain of Custody Record

If this is a Drinking Water sample, please use Drinking Water Chain of Custody Form (potable water consumed by humans)

Report Information:

Company: Soil-Mat
Contact: Adam Roemmele
Address:
Phone: Fax:
Reports to be sent to:
1. Email: aroemmele@soil-mat.ca
2. Email: Maccettone@soil-mat.ca

Project Information:

Project: SM301760
Site Location: Lundy's Lane
Sampled By: MA
AGAT Quote #: 441598 PO:
Please note: If quotation number is not provided, client will be billed full price for analysis.

Invoice Information:

Bill To Same: Yes ☐ No ☐
Company:
Contact:
Address:
Email:

Regulatory Requirements:

(Please check all applicable boxes)

☐ Regulation 153/04
Table (Indicate One) ☐ Ind/Com ☐ Res/Park ☐ Agriculture
Soil Texture (Check One) ☐ Coarse ☐ Fine

☑ Excess Soils R406
Table 1RPI/ICC (Indicate One)
☐ Regulation 558
☐ CCME

☐ Sewer Use ☐ Sanitary ☐ Storm
(Region)
☐ Prov. Water Quality Objectives (PWQO)
☐ Other
(Indicate One)

Is this submission for a Record of Site Condition? ☐ Yes ☐ No

Report Guideline on *Certificate of Analysis* ☐ Yes ☐ No

Sample Matrix Legend

B	Biota
GW	Ground Water
O	Oil
P	Paint
S	Soil
SD	Sediment
SW	Surface Water

Laboratory Use Only

Work Order #:
Cooler Quantity:
Arrival Temperatures: 2.1 | 1.9 | 2.5 | 1.8 | 1.5 | 1.7
Custody Seal Intact: ☐ Yes ☐ No ☐ N/A
Notes: FASE TUE

Turnaround Time (TAT) Required:

Regular TAT ☑ 5 to 7 Business Days
Rush TAT (Rush Surcharges Apply)
☐ 3 Business Days ☐ 2 Business Days ☐ Next Business Day
OR Date Required (Rush Surcharges May Apply):
Please provide prior notification for rush TAT
**TAT is exclusive of weekends and statutory holidays*
For 'Same Day' analysis, please contact your AGAT CPM

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI, DOC (Y/N)	O. Reg 153: Metals & Inorganics	Metals - ☐ CrVI, ☐ Hg, ☐ HWSB	BTEX, F1-F4 PHCs Analyze F4G if required ☐ Yes ☐ No	PAHs	PCBs	VOC	O. Reg 558: Landfill Disposal Characterization TCLP: ☑ M&I ☐ VOCs ☐ ABNs ☑ B(a)P ☐ PCBs	O. Reg 406: Excess Soils SPLP Rainwater Leach SPLP: ☐ Metals ☐ VOCs ☐ SVOCs	Excess Soils Characterization Package pH, ICPMS Metals, BTEX, F1-F4	Salt - EC/SAR	Corrosivity	Potentially Hazardous or High Concentration (Y/N)
BH 4 SS1	26 Jan 2022	pm	4	s			☑		☑	☑		☑						
BH4 SS2	26 Jan 2022	pm	1	s													☑	
BH4 SS3	26 Jan 2022	pm	4	s			☑		☑	☑		☑						
BH5 SS1	25 Jan 2022	pm	4	s			☑		☑	☑		☑						
BH5 SS4	25 Jan 2022	pm	4	s			☑		☑	☑		☑						
BH5 SS3	25 Jan 2022	pm	1	s													☑	
BH6 SS1	27 Jan 2022	pm	4	s			☑		☑	☑								
BH6 SS2	27 Jan 2022	pm	4	s			☑		☑	☑								
BH6 SS4	27 Jan 2022	pm	1	s													☑	

Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
			Steve Dhuna	01/28/22	1:50 pm
Steve Dhuna	01/28/22	4:50 pm			

Page 2 of 5

N°:

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AGAT Laboratories
5835 Coopers Avenue
Mississauga, Ontario L4Z 1Y2
Ph: 905.712.5100 Fax: 905.712.5122
webearth.agatlabs.com

Chain of Custody Record

If this is a Drinking Water sample, please use Drinking Water Chain of Custody Form (potable water consumed by humans)

Report Information:

Company: Soil-Mat
Contact: Adam Roemmele
Address:
Phone: Fax:
Reports to be sent to:
1. Email: aroemmele@soil-mat.ca
2. Email: Maccettone@soil-mat.ca

Project Information:

Project: SM301760
Site Location: Lundy's Lane
Sampled By: MA
AGAT Quote #: 141598 PO:
Please note: If quotation number is not provided, client will be billed full price for analysis.

Invoice Information:

Bill To Same: Yes ☐ No ☐
Company:
Contact:
Address:
Email:

Regulatory Requirements:

(Please check all applicable boxes)

☐ Regulation 153/04
Table _____ *Indicate One*
☐ Ind/Com
☐ Res/Park
☐ Agriculture
Soil Texture *(Check One)*
☐ Coarse
☐ Fine

☑ Excess Soils R406
Table 1RPI/ICC *Indicate One*
☐ Regulation 558
☐ CCME

☐ Sewer Use
☐ Sanitary ☐ Storm
_____ *Region*
☐ Prov. Water Quality Objectives (PWQO)
☐ Other
_____ *Indicate One*

Is this submission for a Record of Site Condition? ☐ Yes ☐ No

Report Guideline on *Certificate of Analysis* ☐ Yes ☐ No

Sample Matrix Legend

B	Biota
GW	Ground Water
O	Oil
P	Paint
S	Soil
SD	Sediment
SW	Surface Water

Laboratory Use Only

Work Order #:
Cooler Quantity:
Arrival Temperatures: 21 | 19 | 2.5 / 1.8 | 1.5 | 1.7
Custody Seal Intact: ☐Yes ☐No ☐N/A
Notes:

Turnaround Time (TAT) Required:

Regular TAT ☑ 5 to 7 Business Days
Rush TAT (Rush Surcharges Apply)
☐ 3 Business Days ☐ 2 Business Days ☐ Next Business Day
OR Date Required (Rush Surcharges May Apply):
Please provide prior notification for rush TAT
**TAT is exclusive of weekends and statutory holidays*
For 'Same Day' analysis, please contact your AGAT CPM

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI, DOC Y/N	O. Reg 153: Metals & Inorganics	O. Reg 153: Metals - ☐ CrVI, ☐ Hg, ☐ HWSB	O. Reg 153: BTEX, F1-F4 PHCs Analyze F4G if required ☐ Yes ☐ No	O. Reg 153: PAHs	O. Reg 153: PCBs	O. Reg 153: VOC	O. Reg 558: Landfill Disposal Characterization TCLP: ☑ M&I ☐ VOCs ☐ ABNs ☑ B(a)P ☐ PCBs	O. Reg 406: Excess Soils SPLP Rainwater Leach	O. Reg 406: SPLP: ☐ Metals ☐ VOCs ☐ SVOCs	O. Reg 406: Excess Soils Characterization Package pH, ICPMS Metals, BTEX, F1-F4	Salt - EC/SAR	Corrosivity	Potentially Hazardous or High Concentration (Y/N)
BH7 SS1	24 Jan 2022	am AM PM	4	s			☑		☑	☑								
BH7 SS2	24 Jan 2022	am AM PM	1	s													☑	
BH7 SS3	24 Jan 2022	am AM PM	4	s			☑		☑	☑								
BH8 SS1	25 Jan 2022	pm AM PM	4	s			☑		☑	☑		☑						
BH8 SS4	25 Jan 2022	pm AM PM	4	s			☑		☑	☑		☑						
BH8 SS3	25 Jan 2022	pm AM PM	1	s			☑		☑	☑							☑	
BH9 SS1	25 Jan 2022	pm AM PM	4	s			☑		☑	☑								
BH9 SS2	25 Jan 2022	pm AM PM	4	s													☑	
BH9 SS3	25 Jan 2022	pm AM PM	1	s														
		AM PM																
		AM PM																

Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
Stephen Dhenin	01/28/22	4:30pm	Stephen Dhenin	01/28/22	1:55pm
Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time

Page 3 of 5
N°:

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AGAT Laboratories
5835 Coopers Avenue
Mississauga, Ontario L4Z 1Y2
Ph: 905.712.5100 Fax: 905.712.5122
webearth.agatlabs.com

Chain of Custody Record

If this is a Drinking Water sample, please use Drinking Water Chain of Custody Form (potable water consumed by humans)

Report Information:

Company: Soil-Mat
Contact: Adam Roemmele
Address:
Phone: Fax:
Reports to be sent to:
1. Email: aroemmele@soil-mat.ca
2. Email: Maccettone@soil-mat.ca

Project Information:

Project: SM301760
Site Location: Lundy's Lane
Sampled By: MA
AGAT Quote #: 441598 PO:
Please note: If quotation number is not provided, client will be billed full price for analysis.

Invoice Information:

Bill To Same: Yes ☐ No ☐
Company:
Contact:
Address:
Email:

Regulatory Requirements:

(Please check all applicable boxes)

☐ Regulation 153/04
Table — *Indicate One*
☐ Ind/Com
☐ Res/Park
☐ Agriculture
Soil Texture *(Check One)*
☐ Coarse
☐ Fine

☑ Excess Soils R406
Table 1RPI/ICC — *Indicate One*
☐ Regulation 558
☐ CCME

☐ Sewer Use
☐ Sanitary ☐ Storm
Region
☐ Prov. Water Quality Objectives (PWQO)
☐ Other
Indicate One

Is this submission for a Record of Site Condition? ☐ Yes ☐ No

Report Guideline on *Certificate of Analysis* ☐ Yes ☐ No

Sample Matrix Legend

B	Biota
GW	Ground Water
O	Oil
P	Paint
S	Soil
SD	Sediment
SW	Surface Water

Laboratory Use Only

Work Order #:
Cooler Quantity: 2
Arrival Temperatures: 1.9 | 2.5 | 1.8 | 1.5 | 1.7
Custody Seal Intact: ☐Yes ☐No ☐N/A
Notes:

Turnaround Time (TAT) Required:

Regular TAT ☑ 5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)

☐ 3 Business Days ☐ 2 Business Days ☐ Next Business Day

OR Date Required (Rush Surcharges May Apply):

Please provide prior notification for rush TAT
**TAT is exclusive of weekends and statutory holidays*

For 'Same Day' analysis, please contact your AGAT CPM

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI, DOC Y/N	O. Reg 153: Metals & Inorganics	O. Reg 153: Metals - ☐CrVI, ☐Hg, ☐HWSB	O. Reg 153: BTEX, F1-F4 PHCs; Analyze F4G if required ☐Yes ☐No	O. Reg 153: PAHs	O. Reg 153: PCBs	O. Reg 153: VOC	O. Reg 558: Landfill Disposal Characterization TCLP: ☑M&I ☐VOCs ☐ABNs ☑B(a)P ☐PCBs	O. Reg 406: Excess Soils SPLP Rainwater Leach SPLP: ☐Metals ☐VOCs ☐SVOCs	O. Reg 406: Excess Soils Characterization Package pH, ICPMS Metals, BTEX, F1-F4	Salt - EC/SAR	Corrosivity	Potentially Hazardous or High Concentration (Y/N)
BH10 SS1	27 Jan 2022	pm AM PM	4	s			☑		☑	☑		☑						
BH10 SS3	27 Jan 2022	pm AM PM	4	s			☑		☑	☑		☑						
BH10 SS4	27 Jan 2022	pm AM PM	1	s													☑	
BH11 SS1	25 Jan 2022	am AM PM		s			☑		☑	☑								
BH11 SS4	25 Jan 2022	am AM PM		s			☑		☑	☑								
BH11 SS3	25 Jan 2022	am AM PM		s													☑	
BH12 SS1	24 Jan 2022	AM PM		s			☑		☑	☑		☑						
BH12 SS2	24 Jan 2022	AM PM		s			☑		☑	☑		☑						
BH12 SS3	24 Jan 2022	AM PM		s													☑	
		AM PM																
		AM PM																

Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
Steven D'Amore	01/28/22	11:30 pm	Steven D'Amore	01/28/22	1:53 pm
Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time

Page 4 of 5

N°:

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AGAT Laboratories
5835 Coopers Avenue
Mississauga, Ontario L4Z 1Y2
Ph: 905.712.5100 Fax: 905.712.5122
webearth.agatlabs.com

Chain of Custody Record

If this is a Drinking Water sample, please use Drinking Water Chain of Custody Form (potable water consumed by humans)

Report Information:

Company: Soil-Mat
Contact: Adam Roemmele
Address:
Phone: Fax:
Reports to be sent to:
1. Email: aroemmele@soil-mat.ca
2. Email: Maccettone@soil-mat.ca

Project Information:

Project: SM301760
Site Location: Lundy's Lane
Sampled By: MA
AGAT Quote #: 441598 PO:
Please note: If quotation number is not provided, client will be billed full price for analysis.

Invoice Information:

Bill To Same: Yes ☐ No ☐
Company:
Contact:
Address:
Email:

Regulatory Requirements:

(Please check all applicable boxes)

☐ Regulation 153/04
Table _____ *Indicate One*
☐ Ind/Com
☐ Res/Park
☐ Agriculture
Soil Texture *(Check One)*
☐ Coarse
☐ Fine

☑ Excess Soils R406
Table 1RPI/ICC *Indicate One*

☐ Regulation 558

☐ CCME

☐ Sewer Use
☐ Sanitary ☐ Storm
_____ *Region*

☐ Prov. Water Quality Objectives (PWQO)

☐ Other
_____ *Indicate One*

Is this submission for a **Record of Site Condition?** ☐ Yes ☐ No

Report Guideline on *Certificate of Analysis* ☐ Yes ☐ No

Sample Matrix Legend

B	Biota
GW	Ground Water
O	Oil
P	Paint
S	Soil
SD	Sediment
SW	Surface Water

Laboratory Use Only

Work Order #:
Cooler Quantity:
Arrival Temperatures: 2.1 | 1.9 | 2.5 | 1.5 | 1.7
Custody Seal Intact: ☐Yes ☐No ☐N/A
Notes:

Turnaround Time (TAT) Required:

Regular TAT ☑ 5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)

☐ 3 Business Days ☐ 2 Business Days ☐ Next Business Day

OR Date Required (Rush Surcharges May Apply):

Please provide prior notification for rush TAT
**TAT is exclusive of weekends and statutory holidays*

For 'Same Day' analysis, please contact your AGAT CPM

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI, DOC Y/N	O. Reg 153: Metals & Inorganics	O. Reg 153: Metals - ☐ CrVI, ☐ Hg, ☐ HWSB	O. Reg 153: BTEX, F1-F4 PHCs, Analyze F4G if required ☐ Yes ☐ No	O. Reg 153: PAHs	O. Reg 153: PCBs	O. Reg 153: VOC	O. Reg 558: Landfill Disposal Characterization TCLP: ☑ M&I ☐ VOCs ☐ ABNs ☑ B(a)P ☐ PCBs	O. Reg 406: Excess Soils SPLP Rainwater Leach ☐ Metals ☐ VOCs ☐ SVOCs	O. Reg 406: Excess Soils Characterization Package pH, ICPMS Metals, BTEX, F1-F4	Salt - EC/SAR	Corrosivity	Potentially Hazardous or High Concentration Y/N
BH13 SS1	27 Jan 2022	pm AM PM	4	s			☑		☑	☑		☑						
BH13 SS3	27 Jan 2022	pm AM PM	4	s			☑		☑	☑		☑						
BH13 SS4	27 Jan 2022	pm AM PM	1	s													☑	
BH15 SS1	27 Jan 2022	am AM PM	4	s			☑		☑	☑								
BH15 SS2	27 Jan 2022	am AM PM	4	s			☑		☑	☑								
BH15 SS4	27 Jan 2022	am AM PM	1	s													☑	
BH17 SS1	27 Jan 2022	am AM PM	4	s			☑		☑	☑		☑						
BH17 SS3	27 Jan 2022	am AM PM		s													☑	
BH17 SS3	27 Jan 2022	am AM PM		s			☑		☑	☑		☑						
		AM PM																
		AM PM																

Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
Stephen D'Herman	01/28/22	4:30pm	Stephen D'Herman	01/28/22	1:55pm
Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time

Page 5 of 5

N°:

Pink Copy - Client I Yellow Copy - AGAT I White Copy- AGAT

AGAT Laboratories

Sample Temperature Log

Client: SOIL-MAT

COC# or Work Order #: 22T858476

of Coolers: 4

of Submissions:

	Arrival Temperatures - Branch/Driver	Arrival Temperatures - Laboratory
Cooler #1:	6.4 / 6.1 / 6.7	3.7 / 3.3 / 3.6
Cooler #2:	2.8 / 2.5 / 3.1	2.0 / 2.3 / 2.7 (Rush)
Cooler #3:	2.1 / 1.9 / 2.5	1.8 / 1.5 / 1.7
Cooler #4:	7.5 / 7.6 / 7.8	3.8 / 4.1 / 3.5
Cooler #5:	/ /	/ /
Cooler #6:	/ /	/ /
Cooler #7:	/ /	/ /
Cooler #8	/ /	/ /
Cooler #9:	/ /	/ /
Cooler #10:	/ /	/ /
IR Gun ID:		
Taken By:	Shyla Thommo	
Date (yyyy/mm/dd):	01/28/22 Time: 1 : 58 AM / PM	Time: : AM / PM

Instructions for use of this form: 1) complete all fields of info including total # of coolers and # of submissions rec'd, 2) photocopy and place in each submission prior to giving a WO#, 3) Proceed as normal, write the WO# and scan (please make sure to scan along with the COC)

AGAT Laboratories

2910 12TH STREET NE
CALGARY, ALBERTA
CANADA T2E 7P7
TEL (403)735-2005
FAX (403)735-2771
http://www.agatlabs.com

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT
130 LANCING DRIVE
HAMILTON, ON L8W3A1
(905) 318-7440

ATTENTION TO: Adam Roemmele

PROJECT: SM301760

AGAT WORK ORDER: 22T860034

ROCK ANALYSIS REVIEWED BY: Jewel Shibu, Lab Supervisor

SOIL ANALYSIS REVIEWED BY: Amanjot Bhela, Inorganic Lab Manager

TRACE ORGANICS REVIEWED BY: Neli Popnikolova, Senior Chemist

DATE REPORTED: Feb 28, 2022

PAGES (INCLUDING COVER): 18

VERSION*: 3

Should you require any information regarding this analysis please contact your client services representative at (403) 735-2005

*Notes

VERSION 3:Version 3 supersedes work order 22T860034 Version 2, issued February 24, 2022. Complete.
VERSION 2:February 24, 2022 - Update for Sample ID BH14 SS4 (3477923) - TCLP VOCs, TCLP Metals and Bulk PCBs.
VERSION 1:February 10, 2022 - partial (excluding Sulphide)

Disclaimer:

- All work conducted herein has been done using accepted standard protocols, and generally accepted practices and methods. AGAT test methods may incorporate modifications from the specified reference methods to improve performance.
- All samples will be disposed of within 30 days after receipt unless a Long Term Storage Agreement is signed and returned. Some specialty analysis may be exempt, please contact your Client Project Manager for details.
- AGAT's liability in connection with any delay, performance or non-performance of these services is only to the Client and does not extend to any other third party. Unless expressly agreed otherwise in writing, AGAT's liability is limited to the actual cost of the specific analysis or analyses included in the services.
- This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
- The test results reported herewith relate only to the samples as received by the laboratory.
- Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, warranties of merchantability, fitness for a particular purpose, or non-infringement. AGAT assumes no responsibility for any errors or omissions in the guidelines contained in this document.
- All reportable information as specified by ISO/IEC 17025:2017 is available from AGAT Laboratories upon request.

Member of: Association of Professional Engineers and Geoscientists of Alberta (APEGA)
Western Enviro-Agricultural Laboratory Association (WEALA)
Environmental Services Association of Alberta (ESAA)

AGAT Laboratories is accredited to ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA) and/or Standards Council of Canada (SCC) for specific tests listed on the scope of accreditation. AGAT Laboratories (Mississauga) is also accredited by the Canadian Association for Laboratory Accreditation Inc. (CALA) for specific drinking water tests. Accreditations are location and parameter specific. A complete listing of parameters for each location is available from www.cala.ca and/or www.scc.ca. The tests in this report may not necessarily be included in the scope of accreditation. Measurement Uncertainty is not taken into consideration when stating conformity with a specified requirement.

AGAT Laboratories

2910 12TH STREET NE
CALGARY, ALBERTA
CANADA T2E 7P7
TEL (403)735-2005
FAX (403)735-2771
http://www.agatlabs.com

Certificate of Analysis

AGAT WORK ORDER: 22T860034

PROJECT: SM301760

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Adam Roemmele

SAMPLING SITE:Lundy's Lane

SAMPLED BY:MA

(283-042) Sulfide (CGY)

DATE RECEIVED: 2022-02-02

DATE REPORTED: 2022-02-28

				SAMPLE DESCRIPTION:	BH16 SS2	BH18 SS4	BH14 SS3
				SAMPLE TYPE:	Soil	Soil	Soil
				DATE SAMPLED:	2022-02-01	2022-02-01	
Parameter	Unit	G / S	RDL		3477929	3477941	3477942
Sulfide	%		0.01		0.02	0.03	0.14

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

Analysis performed at AGAT Calgary (unless marked by *)

Certified By:

Jewel Shibu

Results relate only to the items tested. Results apply to samples as received.

AGAT Laboratories

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CALGARY, ALBERTA
CANADA T2E 7P7
TEL (403)735-2005
FAX (403)735-2771
http://www.agatlabs.com

Certificate of Analysis

AGAT WORK ORDER: 22T860034

PROJECT: SM301760

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Adam Roemmele

SAMPLING SITE:Lundy's Lane

SAMPLED BY:MA

Corrosivity Package

DATE RECEIVED: 2022-02-02

DATE REPORTED: 2022-02-28

		SAMPLE DESCRIPTION:		BH16 SS2	BH18 SS4	BH14 SS3
		SAMPLE TYPE:		Soil	Soil	Soil
		DATE SAMPLED:		2022-02-01	2022-02-01	
Parameter	Unit	G / S	RDL	3477929	3477941	3477942
Chloride (2:1)	µg/g	NA	2	385	319	45
Sulphate (2:1)	µg/g		2	14	47	33
pH (2:1)	pH Units		NA	8.32	7.46	8.69
Electrical Conductivity (2:1)	mS/cm	0.57	0.005	0.562	0.534	0.793
Resistivity (2:1) (Calculated)	ohm.cm		1	1780	1870	1260
Redox Potential 1	mV		NA	517	432	454
Redox Potential 2	mV		NA	514	449	463
Redox Potential 3	mV		NA	507	458	475

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 1: Full Depth Background Site Condition Standards - Soil - Residential/Parkland/Institutional/Industrial/Commercial/Community Property Use
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

3477929-3477942 EC, pH, Chloride and Sulphate were determined on the extract obtained from the 2:1 leaching procedure (2 parts DI water: 1 part soil). Resistivity is a calculated parameter.
Redox potential measured on as received sample. Due to the potential for rapid change in sample equilibrium chemistry with exposure to oxidative/reduction conditions laboratory results may differ from field measured results.
Redox potential measurement in soil is quite variable and non reproducible due in part, to the general heterogeneity of a given soil. It is also related to the introduction of increased oxygen into the sample after extraction. The interpretation of soil redox potential should be considered in terms of its general range rather than as an absolute measurement.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: Amanjot Bhela

ASSOCIATION OF THE CHEMICAL PROFESSION OF ONTARIO CHARTERED AMANJOT BHELA CHEMIST

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AGAT Laboratories

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Exceedance Summary

AGAT WORK ORDER: 22T860034

PROJECT: SM301760

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Adam Roemmele

SAMPLEID	SAMPLE TITLE	GUIDELINE	ANALYSIS PACKAGE	PARAMETER	UNIT	GUIDEVALUE	RESULT
3477942	BH14 SS3	ON T1 S RPI/ICC	Corrosivity Package	Electrical Conductivity (2:1)	mS/cm	0.57	0.793

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Quality Assurance

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

AGAT WORK ORDER: 22T860034

PROJECT: SM301760

ATTENTION TO: Adam Roemmele

SAMPLING SITE:Lundy's Lane

SAMPLED BY:MA

Rock Analysis

RPT Date: Feb 28, 2022			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
(283-042) Sulfide (CGY)															
Total Sulfur		3479285	0.03	0.03	0.2%	< 0.01	92%	90%	110%						
Sulfate		3528797	0.01	0.01	NA	< 0.01	89%	80%	120%						

Certified By:

Jewel Shibu

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Quality Assurance

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

AGAT WORK ORDER: 22T860034

PROJECT: SM301760

ATTENTION TO: Adam Roemmele

SAMPLING SITE:Lundy's Lane

SAMPLED BY:MA

Soil Analysis

RPT Date: Feb 28, 2022			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - Metals & Inorganics (Soil)															
Antimony	3477370		<0.8	<0.8	NA	< 0.8	112%	70%	130%	98%	80%	120%	96%	70%	130%
Arsenic	3477370		4	4	NA	< 1	117%	70%	130%	98%	80%	120%	101%	70%	130%
Barium	3477370		117	117	0.0%	< 2.0	106%	70%	130%	104%	80%	120%	106%	70%	130%
Beryllium	3477370		1.1	1.1	NA	< 0.4	123%	70%	130%	114%	80%	120%	128%	70%	130%
Boron	3477370		12	12	NA	< 5	99%	70%	130%	119%	80%	120%	110%	70%	130%
Boron (Hot Water Soluble)	3483669		0.37	0.40	NA	< 0.10	94%	60%	140%	100%	70%	130%	103%	60%	140%
Cadmium	3477370		<0.5	<0.5	NA	< 0.5	90%	70%	130%	100%	80%	120%	103%	70%	130%
Chromium	3477370		29	30	3.4%	< 5	103%	70%	130%	107%	80%	120%	101%	70%	130%
Cobalt	3477370		11.7	12.1	3.4%	< 0.5	103%	70%	130%	109%	80%	120%	111%	70%	130%
Copper	3477370		19.9	20.8	4.4%	< 1.0	99%	70%	130%	108%	80%	120%	114%	70%	130%
Lead	3477370		15	16	6.5%	< 1	105%	70%	130%	110%	80%	120%	107%	70%	130%
Molybdenum	3477370		<0.5	<0.5	NA	< 0.5	106%	70%	130%	107%	80%	120%	109%	70%	130%
Nickel	3477370		24	24	0.0%	< 1	100%	70%	130%	106%	80%	120%	110%	70%	130%
Selenium	3477370		<0.8	<0.8	NA	< 0.8	110%	70%	130%	100%	80%	120%	106%	70%	130%
Silver	3477370		<0.5	<0.5	NA	< 0.5	101%	70%	130%	104%	80%	120%	99%	70%	130%
Thallium	3477370		<0.5	<0.5	NA	< 0.5	107%	70%	130%	102%	80%	120%	97%	70%	130%
Uranium	3477370		0.88	0.89	NA	< 0.50	110%	70%	130%	101%	80%	120%	102%	70%	130%
Vanadium	3477370		41.4	44.1	6.3%	< 0.4	111%	70%	130%	105%	80%	120%	118%	70%	130%
Zinc	3477370		71	73	2.8%	< 5	107%	70%	130%	107%	80%	120%	121%	70%	130%
Chromium, Hexavalent	3491020	3477932	<0.2	<0.2	NA	< 0.2	95%	70%	130%	105%	80%	120%	103%	70%	130%
Cyanide, Free	3477923	3477923	<0.040	<0.040	NA	< 0.040	104%	70%	130%	92%	80%	120%	110%	70%	130%
Mercury	3477370		<0.10	<0.10	NA	< 0.10	111%	70%	130%	100%	80%	120%	98%	70%	130%
Electrical Conductivity (2:1)	3478882	3477909	0.055	0.048	13.6%	< 0.005	93%	80%	120%						
Sodium Adsorption Ratio (2:1) (Calc.)	3477909	3477909	12.7	11.8	7.3%	NA									
pH, 2:1 CaCl2 Extraction	3476306		6.85	7.02	2.5%	NA	98%	80%	120%						

Comments: NA signifies Not Applicable.
pH duplicates QA acceptance criteria was met relative as stated in Table 5-15 of Analytical Protocol document.
Duplicate NA: results are under 5X the RDL and will not be calculated.

O. Reg. 153(511) - Metals & Inorganics (Soil)															
pH, 2:1 CaCl2 Extraction	3477932	3477932	6.15	6.20	0.8%	NA	99%	80%	120%						

Comments: NA signifies Not Applicable.
pH duplicates QA acceptance criteria was met relative as stated in Table 5-15 of Analytical Protocol document.

Corrosivity Package															
Chloride (2:1)	3477929	3477929	385	388	0.8%	< 2	95%	70%	130%	105%	80%	120%	NA	70%	130%
Sulphate (2:1)	3477929	3477929	14	15	6.9%	< 2	99%	70%	130%	105%	80%	120%	102%	70%	130%
pH (2:1)	3478882		5.98	5.56	7.3%	NA	100%	80%	120%						
Electrical Conductivity (2:1)	3478882		0.055	0.048	13.6%	< 0.005	93%	80%	120%						
Redox Potential 1	3477941						100%	90%	110%						

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Quality Assurance

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

AGAT WORK ORDER: 22T860034

PROJECT: SM301760

ATTENTION TO: Adam Roemmele

SAMPLING SITE:Lundy's Lane

SAMPLED BY:MA

Soil Analysis (Continued)

RPT Date: Feb 28, 2022			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 558 Metals															
Arsenic Leachate	3506967		<0.010	<0.010	NA	< 0.010	104%	70%	130%	120%	80%	120%	120%	70%	130%
Barium Leachate	3506967		0.544	0.533	2.0%	< 0.010	102%	70%	130%	112%	80%	120%	110%	70%	130%
Boron Leachate	3506967		0.153	0.148	NA	< 0.050	106%	70%	130%	113%	80%	120%	102%	70%	130%
Cadmium Leachate	3506967		<0.010	<0.010	NA	< 0.010	100%	70%	130%	99%	80%	120%	98%	70%	130%
Chromium Leachate	3506967		<0.050	<0.050	NA	< 0.050	105%	70%	130%	120%	80%	120%	109%	70%	130%
Lead Leachate	3506967		0.010	0.011	NA	< 0.010	100%	70%	130%	107%	80%	120%	99%	70%	130%
Mercury Leachate	3506967		<0.01	<0.01	NA	< 0.01	92%	70%	130%	87%	80%	120%	94%	70%	130%
Selenium Leachate	3506967		<0.010	<0.010	NA	< 0.010	106%	70%	130%	113%	80%	120%	115%	70%	130%
Silver Leachate	3506967		<0.010	<0.010	NA	< 0.010	99%	70%	130%	106%	80%	120%	91%	70%	130%
Uranium Leachate	3506967		<0.050	<0.050	NA	< 0.050	99%	70%	130%	112%	80%	120%	114%	70%	130%

Comments: NA signifies Not Applicable.
pH duplicates QA acceptance criteria was met relative as stated in Table 5-15 of Analytical Protocol document.

Comments: NA signifies Not Applicable.
Duplicate NA: results are under 5X the RDL and will not be calculated.

Certified By:



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Quality Assurance

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

AGAT WORK ORDER: 22T860034

PROJECT: SM301760

ATTENTION TO: Adam Roemmele

SAMPLING SITE:Lundy's Lane

SAMPLED BY:MA

Trace Organics Analysis

RPT Date: Feb 28, 2022			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - PHCs F1 - F4 (with PAHs and VOC) (Soil)															
F1 (C6 - C10)	3477932	3477932	<5	<5	NA	< 5	110%	60%	140%	107%	60%	140%	90%	60%	140%
F2 (C10 to C16)	3451889		< 10	< 10	NA	< 10	96%	60%	140%	115%	60%	140%	65%	60%	140%
F3 (C16 to C34)	3451889		< 50	< 50	NA	< 50	89%	60%	140%	117%	60%	140%	68%	60%	140%
F4 (C34 to C50)	3451889		< 50	< 50	NA	< 50	89%	60%	140%	122%	60%	140%	72%	60%	140%
O. Reg. 153(511) - PAHs (Soil)															
Naphthalene	3478879		<0.05	<0.05	NA	< 0.05	103%	50%	140%	76%	50%	140%	76%	50%	140%
Acenaphthylene	3478879		<0.05	<0.05	NA	< 0.05	92%	50%	140%	74%	50%	140%	80%	50%	140%
Acenaphthene	3478879		<0.05	<0.05	NA	< 0.05	98%	50%	140%	77%	50%	140%	83%	50%	140%
Fluorene	3478879		<0.05	<0.05	NA	< 0.05	93%	50%	140%	78%	50%	140%	90%	50%	140%
Phenanthrene	3478879		<0.05	<0.05	NA	< 0.05	85%	50%	140%	73%	50%	140%	87%	50%	140%
Anthracene	3478879		<0.05	<0.05	NA	< 0.05	109%	50%	140%	93%	50%	140%	103%	50%	140%
Fluoranthene	3478879		<0.05	0.05	NA	< 0.05	101%	50%	140%	82%	50%	140%	94%	50%	140%
Pyrene	3478879		<0.05	<0.05	NA	< 0.05	94%	50%	140%	80%	50%	140%	92%	50%	140%
Benz(a)anthracene	3478879		<0.05	<0.05	NA	< 0.05	88%	50%	140%	89%	50%	140%	96%	50%	140%
Chrysene	3478879		<0.05	<0.05	NA	< 0.05	81%	50%	140%	79%	50%	140%	77%	50%	140%
Benzo(b)fluoranthene	3478879		<0.05	<0.05	NA	< 0.05	77%	50%	140%	106%	50%	140%	79%	50%	140%
Benzo(k)fluoranthene	3478879		<0.05	<0.05	NA	< 0.05	79%	50%	140%	98%	50%	140%	93%	50%	140%
Benzo(a)pyrene	3478879		<0.05	<0.05	NA	< 0.05	71%	50%	140%	72%	50%	140%	76%	50%	140%
Indeno(1,2,3-cd)pyrene	3478879		<0.05	<0.05	NA	< 0.05	78%	50%	140%	70%	50%	140%	72%	50%	140%
Dibenz(a,h)anthracene	3478879		<0.05	<0.05	NA	< 0.05	75%	50%	140%	72%	50%	140%	73%	50%	140%
Benzo(g,h,i)perylene	3478879		<0.05	<0.05	NA	< 0.05	77%	50%	140%	72%	50%	140%	78%	50%	140%
O. Reg. 153(511) - VOCs (Soil)															
Dichlorodifluoromethane	3479549		< 0.05	< 0.05	NA	< 0.05	104%	50%	140%	56%	50%	140%	96%	50%	140%
Vinyl Chloride	3479549		< 0.02	< 0.02	NA	< 0.02	84%	50%	140%	90%	50%	140%	105%	50%	140%
Bromomethane	3479549		< 0.05	< 0.05	NA	< 0.05	101%	50%	140%	82%	50%	140%	74%	50%	140%
Trichlorofluoromethane	3479549		< 0.05	< 0.05	NA	< 0.05	96%	50%	140%	92%	50%	140%	83%	50%	140%
Acetone	3479549		< 0.50	< 0.50	NA	< 0.50	104%	50%	140%	89%	50%	140%	104%	50%	140%
1,1-Dichloroethylene	3479549		< 0.05	< 0.05	NA	< 0.05	110%	50%	140%	92%	60%	130%	98%	50%	140%
Methylene Chloride	3479549		< 0.05	< 0.05	NA	< 0.05	104%	50%	140%	96%	60%	130%	98%	50%	140%
Trans- 1,2-Dichloroethylene	3479549		< 0.05	< 0.05	NA	< 0.05	104%	50%	140%	86%	60%	130%	101%	50%	140%
Methyl tert-butyl Ether	3479549		< 0.05	< 0.05	NA	< 0.05	78%	50%	140%	72%	60%	130%	80%	50%	140%
1,1-Dichloroethane	3479549		< 0.02	< 0.02	NA	< 0.02	89%	50%	140%	119%	60%	130%	107%	50%	140%
Methyl Ethyl Ketone	3479549		< 0.50	< 0.50	NA	< 0.50	102%	50%	140%	106%	50%	140%	97%	50%	140%
Cis- 1,2-Dichloroethylene	3479549		< 0.02	< 0.02	NA	< 0.02	95%	50%	140%	117%	60%	130%	76%	50%	140%
Chloroform	3479549		< 0.04	< 0.04	NA	< 0.04	102%	50%	140%	117%	60%	130%	100%	50%	140%
1,2-Dichloroethane	3479549		< 0.03	< 0.03	NA	< 0.03	83%	50%	140%	97%	60%	130%	116%	50%	140%
1,1,1-Trichloroethane	3479549		< 0.05	< 0.05	NA	< 0.05	89%	50%	140%	111%	60%	130%	91%	50%	140%
Carbon Tetrachloride	3479549		< 0.05	< 0.05	NA	< 0.05	83%	50%	140%	83%	60%	130%	90%	50%	140%

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Quality Assurance

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT
AGAT WORK ORDER: 22T860034
PROJECT: SM301760
ATTENTION TO: Adam Roemmele
SAMPLING SITE:Lundy's Lane
SAMPLED BY:MA

Trace Organics Analysis (Continued)

RPT Date: Feb 28, 2022			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
Benzene	3479549		< 0.02	< 0.02	NA	< 0.02	76%	50%	140%	86%	60%	130%	101%	50%	140%
1,2-Dichloropropane	3479549		< 0.03	< 0.03	NA	< 0.03	72%	50%	140%	85%	60%	130%	109%	50%	140%
Trichloroethylene	3479549		< 0.03	< 0.03	NA	< 0.03	87%	50%	140%	104%	60%	130%	103%	50%	140%
Bromodichloromethane	3479549		< 0.05	< 0.05	NA	< 0.05	81%	50%	140%	92%	60%	130%	104%	50%	140%
Methyl Isobutyl Ketone	3479549		< 0.50	< 0.50	NA	< 0.50	109%	50%	140%	78%	50%	140%	99%	50%	140%
1,1,2-Trichloroethane	3479549		< 0.04	< 0.04	NA	< 0.04	112%	50%	140%	79%	60%	130%	96%	50%	140%
Toluene	3479549		< 0.05	< 0.05	NA	< 0.05	112%	50%	140%	89%	60%	130%	102%	50%	140%
Dibromochloromethane	3479549		< 0.05	< 0.05	NA	< 0.05	113%	50%	140%	81%	60%	130%	98%	50%	140%
Ethylene Dibromide	3479549		< 0.04	< 0.04	NA	< 0.04	114%	50%	140%	82%	60%	130%	94%	50%	140%
Tetrachloroethylene	3479549		< 0.05	< 0.05	NA	< 0.05	85%	50%	140%	78%	60%	130%	102%	50%	140%
1,1,1,2-Tetrachloroethane	3479549		< 0.04	< 0.04	NA	< 0.04	109%	50%	140%	79%	60%	130%	102%	50%	140%
Chlorobenzene	3479549		< 0.05	< 0.05	NA	< 0.05	114%	50%	140%	83%	60%	130%	108%	50%	140%
Ethylbenzene	3479549		< 0.05	< 0.05	NA	< 0.05	102%	50%	140%	79%	60%	130%	88%	50%	140%
m & p-Xylene	3479549		< 0.05	< 0.05	NA	< 0.05	109%	50%	140%	86%	60%	130%	93%	50%	140%
Bromoform	3479549		< 0.05	< 0.05	NA	< 0.05	117%	50%	140%	79%	60%	130%	102%	50%	140%
Styrene	3479549		< 0.05	< 0.05	NA	< 0.05	94%	50%	140%	73%	60%	130%	86%	50%	140%
1,1,2,2-Tetrachloroethane	3479549		< 0.05	< 0.05	NA	< 0.05	119%	50%	140%	80%	60%	130%	108%	50%	140%
o-Xylene	3479549		< 0.05	< 0.05	NA	< 0.05	114%	50%	140%	85%	60%	130%	99%	50%	140%
1,3-Dichlorobenzene	3479549		< 0.05	< 0.05	NA	< 0.05	100%	50%	140%	93%	60%	130%	119%	50%	140%
1,4-Dichlorobenzene	3479549		< 0.05	< 0.05	NA	< 0.05	95%	50%	140%	92%	60%	130%	101%	50%	140%
1,2-Dichlorobenzene	3479549		< 0.05	< 0.05	NA	< 0.05	97%	50%	140%	88%	60%	130%	98%	50%	140%
n-Hexane	3479549		< 0.05	< 0.05	NA	< 0.05	102%	50%	140%	95%	60%	130%	87%	50%	140%
O. Reg. 153(511) - PHCs F1 - F4 (with PAHs and VOC) (Soil)															
F2 (C10 to C16)	3480316		< 10	< 10	NA	< 10	121%	60%	140%	69%	60%	140%	68%	60%	140%
F3 (C16 to C34)	3480316		< 50	< 50	NA	< 50	116%	60%	140%	67%	60%	140%	67%	60%	140%
F4 (C34 to C50)	3480316		< 50	< 50	NA	< 50	98%	60%	140%	87%	60%	140%	61%	60%	140%
O. Reg. 153(511) - VOCs (Soil)															
Dichlorodifluoromethane	3477923	3477923	< 0.05	< 0.05	NA	< 0.05	104%	50%	140%	56%	50%	140%	96%	50%	140%
Vinyl Chloride	3477923	3477923	< 0.02	< 0.02	NA	< 0.02	84%	50%	140%	90%	50%	140%	105%	50%	140%
Bromomethane	3477923	3477923	< 0.05	< 0.05	NA	< 0.05	101%	50%	140%	82%	50%	140%	74%	50%	140%
Trichlorofluoromethane	3477923	3477923	< 0.05	< 0.05	NA	< 0.05	96%	50%	140%	92%	50%	140%	83%	50%	140%
Acetone	3477923	3477923	< 0.50	< 0.50	NA	< 0.50	104%	50%	140%	89%	50%	140%	104%	50%	140%
1,1-Dichloroethylene	3477923	3477923	< 0.05	< 0.05	NA	< 0.05	110%	50%	140%	92%	60%	130%	98%	50%	140%
Methylene Chloride	3477923	3477923	< 0.05	< 0.05	NA	< 0.05	104%	50%	140%	96%	60%	130%	98%	50%	140%
Trans- 1,2-Dichloroethylene	3477923	3477923	< 0.05	< 0.05	NA	< 0.05	104%	50%	140%	86%	60%	130%	101%	50%	140%
Methyl tert-butyl Ether	3477923	3477923	< 0.05	< 0.05	NA	< 0.05	78%	50%	140%	72%	60%	130%	80%	50%	140%
1,1-Dichloroethane	3477923	3477923	< 0.02	< 0.02	NA	< 0.02	89%	50%	140%	119%	60%	130%	107%	50%	140%

Comments: When the average of the sample and duplicate results is less than 5x the RDL, the Relative Percent Difference (RPD) will be indicated as Not Applicable (NA).

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Quality Assurance

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

AGAT WORK ORDER: 22T860034

PROJECT: SM301760

ATTENTION TO: Adam Roemmele

SAMPLING SITE:Lundy's Lane

SAMPLED BY:MA

Trace Organics Analysis (Continued)

RPT Date: Feb 28, 2022			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
Methyl Ethyl Ketone	3477923	3477923	< 0.50	< 0.50	NA	< 0.50	102%	50%	140%	106%	50%	140%	97%	50%	140%
Cis- 1,2-Dichloroethylene	3477923	3477923	< 0.02	< 0.02	NA	< 0.02	95%	50%	140%	117%	60%	130%	76%	50%	140%
Chloroform	3477923	3477923	< 0.04	< 0.04	NA	< 0.04	102%	50%	140%	117%	60%	130%	100%	50%	140%
1,2-Dichloroethane	3477923	3477923	< 0.03	< 0.03	NA	< 0.03	83%	50%	140%	97%	60%	130%	116%	50%	140%
1,1,1-Trichloroethane	3477923	3477923	< 0.05	< 0.05	NA	< 0.05	89%	50%	140%	111%	60%	130%	91%	50%	140%
Carbon Tetrachloride	3477923	3477923	< 0.05	< 0.05	NA	< 0.05	83%	50%	140%	83%	60%	130%	90%	50%	140%
Benzene	3477923	3477923	< 0.02	< 0.02	NA	< 0.02	76%	50%	140%	86%	60%	130%	101%	50%	140%
1,2-Dichloropropane	3477923	3477923	< 0.03	< 0.03	NA	< 0.03	72%	50%	140%	85%	60%	130%	109%	50%	140%
Trichloroethylene	3477923	3477923	< 0.03	< 0.03	NA	< 0.03	87%	50%	140%	104%	60%	130%	103%	50%	140%
Bromodichloromethane	3477923	3477923	< 0.05	< 0.05	NA	< 0.05	81%	50%	140%	92%	60%	130%	104%	50%	140%
Methyl Isobutyl Ketone	3477923	3477923	< 0.50	< 0.50	NA	< 0.50	109%	50%	140%	78%	50%	140%	99%	50%	140%
1,1,2-Trichloroethane	3477923	3477923	< 0.04	< 0.04	NA	< 0.04	112%	50%	140%	79%	60%	130%	96%	50%	140%
Toluene	3477923	3477923	< 0.05	< 0.05	NA	< 0.05	112%	50%	140%	89%	60%	130%	102%	50%	140%
Dibromochloromethane	3477923	3477923	< 0.05	< 0.05	NA	< 0.05	113%	50%	140%	81%	60%	130%	98%	50%	140%
Ethylene Dibromide	3477923	3477923	< 0.04	< 0.04	NA	< 0.04	114%	50%	140%	82%	60%	130%	94%	50%	140%
Tetrachloroethylene	3477923	3477923	0.22	0.21	NA	< 0.05	85%	50%	140%	78%	60%	130%	102%	50%	140%
1,1,1,2-Tetrachloroethane	3477923	3477923	< 0.04	< 0.04	NA	< 0.04	109%	50%	140%	79%	60%	130%	102%	50%	140%
Chlorobenzene	3477923	3477923	< 0.05	< 0.05	NA	< 0.05	114%	50%	140%	83%	60%	130%	108%	50%	140%
Ethylbenzene	3477923	3477923	< 0.05	< 0.05	NA	< 0.05	102%	50%	140%	79%	60%	130%	88%	50%	140%
m & p-Xylene	3477923	3477923	< 0.05	< 0.05	NA	< 0.05	109%	50%	140%	86%	60%	130%	93%	50%	140%
Bromoform	3477923	3477923	< 0.05	< 0.05	NA	< 0.05	117%	50%	140%	79%	60%	130%	102%	50%	140%
Styrene	3477923	3477923	< 0.05	< 0.05	NA	< 0.05	94%	50%	140%	73%	60%	130%	86%	50%	140%
1,1,2,2-Tetrachloroethane	3477923	3477923	< 0.05	< 0.05	NA	< 0.05	119%	50%	140%	80%	60%	130%	108%	50%	140%
o-Xylene	3477923	3477923	< 0.05	< 0.05	NA	< 0.05	114%	50%	140%	85%	60%	130%	99%	50%	140%
1,3-Dichlorobenzene	3477923	3477923	< 0.05	< 0.05	NA	< 0.05	100%	50%	140%	93%	60%	130%	119%	50%	140%
1,4-Dichlorobenzene	3477923	3477923	< 0.05	< 0.05	NA	< 0.05	95%	50%	140%	92%	60%	130%	101%	50%	140%
1,2-Dichlorobenzene	3477923	3477923	< 0.05	< 0.05	NA	< 0.05	97%	50%	140%	88%	60%	130%	98%	50%	140%
n-Hexane	3477923	3477923	< 0.05	< 0.05	NA	< 0.05	102%	50%	140%	95%	60%	130%	87%	50%	140%
O. Reg. 153(511) - PCBs (Soil)															
Polychlorinated Biphenyls	3506974		< 0.1	< 0.1	NA	< 0.1	104%	50%	140%	84%	50%	140%	74%	50%	140%
O. Reg. 558 - VOCs															
Vinyl Chloride Leachate	3499630		<0.030	<0.030	NA	< 0.030	95%	50%	140%	107%	50%	140%	96%	50%	140%
1,1 Dichloroethene Leachate	3499630		<0.020	<0.020	NA	< 0.020	79%	50%	140%	114%	60%	130%	96%	50%	140%
Dichloromethane Leachate	3499630		<0.030	<0.030	NA	< 0.030	97%	50%	140%	91%	60%	130%	96%	50%	140%
Methyl Ethyl Ketone Leachate	3499630		<0.090	<0.090	NA	< 0.090	78%	50%	140%	88%	50%	140%	95%	50%	140%
Chloroform Leachate	3499630		<0.020	<0.020	NA	< 0.020	75%	50%	140%	74%	60%	130%	104%	50%	140%
1,2-Dichloroethane Leachate	3499630		<0.020	<0.020	NA	< 0.020	89%	50%	140%	88%	60%	130%	94%	50%	140%
Carbon Tetrachloride Leachate	3499630		<0.020	<0.020	NA	< 0.020	82%	50%	140%	76%	60%	130%	83%	50%	140%
Benzene Leachate	3499630		<0.020	<0.020	NA	< 0.020	70%	50%	140%	79%	60%	130%	97%	50%	140%

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Quality Assurance

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

AGAT WORK ORDER: 22T860034

PROJECT: SM301760

ATTENTION TO: Adam Roemmele

SAMPLING SITE:Lundy's Lane

SAMPLED BY:MA

Trace Organics Analysis (Continued)

RPT Date: Feb 28, 2022			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
Trichloroethene Leachate	3499630		<0.020	<0.020	NA	< 0.020	86%	50%	140%	87%	60%	130%	107%	50%	140%
Tetrachloroethene Leachate	3499630		<0.050	<0.050	NA	< 0.050	73%	50%	140%	92%	60%	130%	98%	50%	140%
Chlorobenzene Leachate	3499630		<0.010	<0.010	NA	< 0.010	86%	50%	140%	77%	60%	130%	89%	50%	140%
1,2-Dichlorobenzene Leachate	3499630		<0.010	<0.010	NA	< 0.010	107%	50%	140%	83%	60%	130%	107%	50%	140%
1,4-Dichlorobenzene Leachate	3499630		<0.010	<0.010	NA	< 0.010	99%	50%	140%	84%	60%	130%	108%	50%	140%

Certified By: N Popnikolof

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Method Summary

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

AGAT WORK ORDER: 22T860034

PROJECT: SM301760

ATTENTION TO: Adam Roemmele

SAMPLING SITE:Lundy's Lane

SAMPLED BY:MA

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Soil Analysis			
Chloride (2:1)	INOR-93-6004	modified from SM 4110 B	ION CHROMATOGRAPH
Sulphate (2:1)	INOR-93-6004	modified from SM 4110 B	ION CHROMATOGRAPH
pH (2:1)	INOR 93-6031	modified from EPA 9045D and MCKEAGUE 3.11	PH METER
Electrical Conductivity (2:1)	INOR-93-6036	modified from MSA PART 3, CH 14 and SM 2510 B	EC METER
Resistivity (2:1) (Calculated)	INOR-93-6036	McKeague 4.12, SM 2510 B,SSA #5 Part 3	CALCULATION
Redox Potential 1	INOR-93-6066	G200-20, SM 2580 B	REDOX POTENTIAL ELECTRODE
Redox Potential 2	INOR-93-6066	G200-20, SM 2580 B	REDOX POTENTIAL ELECTRODE
Redox Potential 3	INOR-93-6066	G200-20, SM 2580 B	REDOX POTENTIAL ELECTRODE
Antimony	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Arsenic	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Barium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Beryllium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Boron	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Boron (Hot Water Soluble)	MET-93-6104	modified from EPA 6010D and MSA PART 3, CH 21	ICP/OES
Cadmium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Chromium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Cobalt	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Copper	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Lead	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Molybdenum	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Nickel	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Selenium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Silver	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Thallium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Uranium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Vanadium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Zinc	MET 93 -6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Chromium, Hexavalent	INOR-93-6068	modified from EPA 3060 and EPA 7196	SPECTROPHOTOMETER
Cyanide, Free	INOR-93-6052	modified from ON MOECC E3015, SM 4500-CN- I, G-387	TECHNICON AUTO ANALYZER
Mercury	MET-93-6103	modified from EPA 7471B and SM 3112 B	ICP-MS

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Method Summary

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

AGAT WORK ORDER: 22T860034

PROJECT: SM301760

ATTENTION TO: Adam Roemmele

SAMPLING SITE:Lundy's Lane

SAMPLED BY:MA

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Sodium Adsorption Ratio (2:1) (Calc.)	INOR-93-6007	modified from EPA 6010D & Analytical Protocol	ICP/OES
pH, 2:1 CaCl2 Extraction	INOR-93-6031	modified from EPA 9045D and MCKEAGUE 3.11	PH METER
Arsenic Leachate	MET-93-6103	EPA 1311 & modified from EPA 6020B	ICP-MS
Barium Leachate	MET-93-6103	EPA 1311 & modified from EPA 6020B	ICP-MS
Boron Leachate	MET-93-6103	EPA 1311 & modified from EPA 6020B	ICP-MS
Cadmium Leachate	MET-93-6103	EPA 1311 & modified from EPA 6020B	ICP-MS
Chromium Leachate	MET-93-6103	EPA 1311 & modified from EPA 6020B	ICP-MS
Lead Leachate	MET-93-6103	EPA 1311 & modified from EPA 6020B	ICP-MS
Mercury Leachate	MET-93-6103	EPA 1311 & modified from EPA 6020B	ICP-MS
Selenium Leachate	MET-93-6103	EPA 1311 & modified from EPA 6020B	ICP-MS
Silver Leachate	MET-93-6103	EPA 1311 & modified from EPA 6020B	ICP-MS
Uranium Leachate	MET-93-6103	EPA 1311 & modified from EPA 6020B	ICP-MS

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Method Summary

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

AGAT WORK ORDER: 22T860034

PROJECT: SM301760

ATTENTION TO: Adam Roemmele

SAMPLING SITE:Lundy's Lane

SAMPLED BY:MA

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Naphthalene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Acenaphthylene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Acenaphthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Fluorene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Phenanthrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Anthracene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Fluoranthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Pyrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benz(a)anthracene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Chrysene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(b)fluoranthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(k)fluoranthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(a)pyrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Indeno(1,2,3-cd)pyrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Dibenz(a,h)anthracene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(g,h,i)perylene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
1 and 2 Methlynaphthalene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Naphthalene-d8	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Acridine-d9	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Terphenyl-d14	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Moisture Content	VOL-91-5009	CCME Tier 1 Method	BALANCE
Polychlorinated Biphenyls	ORG-91-5113	modified from EPA SW-846 3541 & 8082A	GC/ECD
Decachlorobiphenyl	ORG-91-5113	modified from EPA SW-846 3541 & 8082A	GC/ECD
wet weight PCB	ORG-91-5113		BALANCE
F1 (C6 - C10)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/FID
F1 (C6 to C10) minus BTEX	VOL-91-5009	modified from CCME Tier 1 Method	P&T GC/FID
Toluene-d8	VOL-91-5009	modified from EPA SW-846 5030C & 8260D	(P&T)GC/MS
F2 (C10 to C16)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F2 (C10 to C16) minus Naphthalene	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34) minus PAHs	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID

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http://www.agatlabs.com

Method Summary

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

AGAT WORK ORDER: 22T860034

PROJECT: SM301760

ATTENTION TO: Adam Roemmele

SAMPLING SITE:Lundy's Lane

SAMPLED BY:MA

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
F4 (C34 to C50)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
Gravimetric Heavy Hydrocarbons	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Terphenyl	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
Dichlorodifluoromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Vinyl Chloride	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Bromomethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Trichlorofluoromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Acetone	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1-Dichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methylene Chloride	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Trans- 1,2-Dichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methyl tert-butyl Ether	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1-Dichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methyl Ethyl Ketone	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Cis- 1,2-Dichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Chloroform	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,2-Dichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1,1-Trichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Carbon Tetrachloride	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Benzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,2-Dichloropropane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Trichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Bromodichloromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methyl Isobutyl Ketone	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1,2-Trichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Toluene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Dibromochloromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Ethylene Dibromide	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Tetrachloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS

Results relate only to the items tested. Results apply to samples as received.

AGAT Laboratories

2910 12TH STREET NE
CALGARY, ALBERTA
CANADA T2E 7P7
TEL (403)735-2005
FAX (403)735-2771
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Method Summary

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

AGAT WORK ORDER: 22T860034

PROJECT: SM301760

ATTENTION TO: Adam Roemmele

SAMPLING SITE:Lundy's Lane

SAMPLED BY:MA

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
1,1,1,2-Tetrachloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Chlorobenzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Ethylbenzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
m & p-Xylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Bromoform	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Styrene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1,2,2-Tetrachloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
o-Xylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,3-Dichlorobenzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,4-Dichlorobenzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,2-Dichlorobenzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Xylenes (Total)	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,3-Dichloropropene (Cis + Trans)	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
n-Hexane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Toluene-d8	VOL-91-5002	modified from EPA 5035A & EPA 8260D	(P&T)GC/MS
4-Bromofluorobenzene	VOL-91-5002	modified from EPA 5035A & EPA 8260D	(P&T)GC/MS
Moisture Content	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Vinyl Chloride Leachate	VOL-91-5001	EPA 1311, modified from EPA 5030C & EPA 8260D	(P&T)GC/MS
1,1 Dichloroethene Leachate	VOL-91-5001	EPA 1311, modified from EPA 5030C & EPA 8260D	(P&T)GC/MS
Dichloromethane Leachate	VOL-91-5001	EPA 1311, modified from EPA 5030C & EPA 8260D	(P&T)GC/MS
Methyl Ethyl Ketone Leachate	VOL-91-5001	EPA 1311, modified from EPA 5030C & EPA 8260D	(P&T)GC/MS
Chloroform Leachate	VOL-91-5001	EPA 1311, modified from EPA 5030C & EPA 8260D	(P&T)GC/MS
1,2-Dichloroethane Leachate	VOL-91-5001	EPA 1311, modified from EPA 5030C & EPA 8260D	(P&T)GC/MS
Carbon Tetrachloride Leachate	VOL-91-5001	EPA 1311, modified from EPA 5030C & EPA 8260D	(P&T)GC/MS
Benzene Leachate	VOL-91-5001	EPA 1311, modified from EPA 5030C & EPA 8260D	(P&T)GC/MS
Trichloroethene Leachate	VOL-91-5001	EPA 1311, modified from EPA 5030C & EPA 8260D	(P&T)GC/MS
Tetrachloroethene Leachate	VOL-91-5001	EPA 1311, modified from EPA 5030C & EPA 8260D	(P&T)GC/MS
Chlorobenzene Leachate	VOL-91-5001	EPA 1311, modified from EPA 5030C & EPA 8260D	(P&T)GC/MS

Results relate only to the items tested. Results apply to samples as received.

2910 12TH STREET NE
CALGARY, ALBERTA
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Method Summary

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

AGAT WORK ORDER: 22T860034

PROJECT: SM301760

ATTENTION TO: Adam Roemmele

SAMPLING SITE:Lundy's Lane

SAMPLED BY:MA

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
1,2-Dichlorobenzene Leachate	VOL-91-5001	EPA 1311, modified from EPA 5030C & EPA 8260D	(P&T)GC/MS
1,4-Dichlorobenzene Leachate	VOL-91-5001	EPA 1311, modified from EPA 5030C & EPA 8260D	(P&T)GC/MS
Toluene-d8	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
4-Bromofluorobenzene	VOL-91- 5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS

Results relate only to the items tested. Results apply to samples as received.

AGAT Laboratories
5835 Coopers Avenue
Mississauga, Ontario L4Z 1Y2
Ph: 905.712.5100 Fax: 905.712.5122
webearth.agatlabs.com

Chain of Custody Record

If this is a Drinking Water sample, please use Drinking Water Chain of Custody Form (potable water consumed by humans)

Report Information:

Company: Soil-Mat
Contact: Adam Roemmele
Address:
Phone: Fax:
Reports to be sent to:
1. Email: aroemmele@soil-mat.ca
2. Email: Maccettone@soil-mat.ca

Project Information:

Project: SM301760
Site Location: Lundy's Lane
Sampled By: MA
AGAT Quote #: 441598 PO:
Please note: If quotation number is not provided, client will be billed full price for analysis.

Invoice Information:

Bill To Same: Yes ☐ No ☐
Company:
Contact:
Address:
Email:

Regulatory Requirements:

(Please check all applicable boxes)

☐ Regulation 153/04
Table (Indicate One) ☐ Ind/Com ☐ Res/Park ☐ Agriculture
Soil Texture (Check One) ☐ Coarse ☐ Fine

☑ Excess Soils R406
Table 1RPI/ICC (Indicate One)
☐ Regulation 558
☐ CCME

☐ Sewer Use ☐ Sanitary ☐ Storm
(Region)
☐ Prov. Water Quality Objectives (PWQO)
☐ Other
(Indicate One)

Is this submission for a Record of Site Condition? ☐ Yes ☐ No

Report Guideline on *Certificate of Analysis* ☐ Yes ☐ No

Sample Matrix Legend

B	Biota
GW	Ground Water
O	Oil
P	Paint
S	Soil
SD	Sediment
SW	Surface Water

Laboratory Use Only

Work Order #: 22T860034
Cooler Quantity:
Arrival Temperatures: 4.6 | 5.1 | 4.9 / 3.8 | 3.9 | 4.2
Custody Seal Intact: ☐ Yes ☐ No ☐ N/A
Notes: FREE ICE

Turnaround Time (TAT) Required:

Regular TAT ☑ 5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)

☐ 3 Business Days ☐ 2 Business Days ☐ Next Business Day

OR Date Required (Rush Surcharges May Apply):

Please provide prior notification for rush TAT
**TAT is exclusive of weekends and statutory holidays*

For 'Same Day' analysis, please contact your AGAT CPM

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI, DOC Y/N	O. Reg 153: Metals & Inorganics	Metals - ☐ CrVI, ☐ Hg, ☐ HWSB	BTEX, F1-F4 PHCs Analyze F4G if required ☐ Yes ☐ No	PAHs	PCBs	VOC	O. Reg 558: Landfill Disposal Characterization TCLP: ☐ TCLP: ☐ M&I ☐ VOCs ☐ ABNs ☐ B(a)P ☐ PCBs	O. Reg 406: Excess Soils SPLP Rainwater Leach	SPLP: ☐ Metals ☐ VOCs ☐ SVOCs	Excess Soils Characterization Package pH, ICPMS Metals, BTEX, F1-F4	Salt - EC/SAR	Corrosivity	Potentially Hazardous or High Concentration Y/N
BH14 SS1	1 Feb 2022	am	4	s			☑		☑	☑		☑							
BH14 SS2	1 Feb 2022	am	4	s			☑		☑	☑		☑							
BH14 SS4	1 Feb 2022	am	1	s													☑		
BH16 SS1	1 Feb 2022	am	4	s			☑		☑	☑		☑							
BH16 SS3	1 Feb 2022	am	4	s			☑		☑	☑		☑							
BH16 SS2	1 Feb 2022	am	1	s													☑		
BH18 SS1	1 Feb 2022	am	4	s			☑		☑	☑		☑							
BH18 SS3	1 Feb 2022	am	1	s													☑		
BH18 SS4	1 Feb 2022	am	4	s			☑		☑	☑		☑							

Samples Relinquished By (Print Name and Sign): Steven Dhuma	Date 02/02/22	Time 4:15pm	Samples Received By (Print Name and Sign): Steven Dhuma	Date 02/02/22	Time 7:40pm		
Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time	Page 1 of 1	
Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time	N°:	

Pink Copy - Client | Yellow Copy - AGAT | White Copy- AGAT

APPENDIX D.2

ASSESSMENT OF PAST USES (SOIL-MAT ENGINEERS & CONSULTANTS LTD.)

If technical reports are required in an alternative format for accessibility needs, please contact:

Maged Elmadhoon, M.Eng., P.Eng.

Manager, Transportation Planning

1815 Sir Isaac Brock Way, PO Box 1042

Thorold, Ontario, L2V 4T7

Telephone: (905) 980-6000 ext. 3583

Email: Maged.Elmadhoon@niagararegion.ca

PROJECT NO.: SM 301760-E

JUNE 7, 2022

ASSESSMENT OF PAST USES
PROPOSED RECONSTRUCTION OF LUNDY'S LANE
NIAGARA FALLS, ONTARIO

PREPARED FOR:

URBAN & ENVIRONMENTAL MANAGEMENT INC.

BY

SOIL-MAT ENGINEERS & CONSULTANTS LTD.
130 LANCING DRIVE
HAMILTON, ONTARIO
L8W 3A1

PROJECT NO.: SM 301760-E

JUNE 7, 2022

ASSESSMENT OF PAST USES
PROPOSED RECONSTRUCTION OF LUNDY'S LANE
NIAGARA FALLS, ONTARIO

PREPARED FOR:

URBAN & ENVIRONMENTAL MANAGEMENT INC.

BY

SOIL-MAT ENGINEERS & CONSULTANTS LTD.
130 LANCING DRIVE
HAMILTON, ONTARIO
L8W 3A1

1.0 EXECUTIVE SUMMARY

The Assessment of Past Uses [APU] consists of a historical records review, interviews and a reconnaissance of the subject lands.

For the purpose of this Report, the lands subject to the specific Assessment of Past Uses are referred to as the 'Project Lands' and/or the 'Site'. Of note, our Assessment of Past Uses included the lands in an approximate 50 metres radius from the 'Project Lands'. These lands are hereinafter referred to as the "Study Area" lands.

At the time of this Report, the Project Lands were comprised of an asphaltic-concrete surfaced municipal roadway, Lundy's Lane, extending approximately 1.73 kilometers between Regional Road 98 [Montrose Road] and Highland Avenue in Niagara Falls, Ontario. The lands in the general vicinity of the Project Lands were comprised of a mixture of commercial, community and residential use lands.

The research completed during the Assessment of Past Uses revealed one potentially contaminating activity [PCA] on the Project Lands. Specifically, information extrapolated from historical aerial photographs, including an aerial photograph from 1968 revealed potential fill material present as a result of historical widening, improvements and/or infrastructure installations along the existing roadways that comprise the Project Lands.

In addition, fourteen [14] PCAs were identified within the Study Area that are considered likely to cause an area of potential environmental concern [APEC] on the Project Lands including the following:

- The reconnaissance of the site revealed one retail fuel outlet [RFO] located at 6644 Lundy's Lane and three [3] commercial autobody repair facilities located at 6910, 6499, and 7009 Lundy's Lane;
- The review of the historical fire insurance plans, including plans from 1951 and 1965 revealed three [3] historic auto service facilities located at 6499, 6555, and 7600 Lundy's Lane, and two historic dry cleaner operations located at 6488 and 6710 Lundy's Lane;
- The review of the Vernon City Directories series revealed an autobody repair facility at 7009 Lundy's Lane, four [4] historic service stations located at 6910, 6499, 6555, and 7600 Lundy's Lane, and two [2] dry cleaners located at 6710 and 7279 Lundy's Lane;
- A search of the Ministry of Environment, Conservation and Parks [MOE] Brownfields Environmental Site Registry revealed a Phase One, Phase Two, Record of Site Condition [RSC] and a Risk Assessment [RA] filed on December 21, 2012 for the property located at 6499 Lundy's Lane. The RSC filing indicated soil and groundwater with elevated petroleum hydrocarbons [PHCs], benzene, toluene, ethylbenzene and xylenes [BTEX] and volatile organic compounds [VOCs] remained in place on the property as of the date of filing;
- Information gathered from T.S.S.A records revealed four [4] properties with registered underground fuel storage tanks including 6555, 6499 and 6644 Lundy's Lane, and;

- Information gathered from an EcoLog ERIS Database search revealed waste generators at 6738-6758 [unit 1], 6644, and 6499 Lundy's Lane. In addition, a Certificate of Property Use was listed for 6499, and an Ontario spill was recorded in association with 'Sunoco Service Station', inferred to be located at 6555 Lundy's Lane.

The noted PCAs and results APECs for the project site are illustrated in the attached Drawing Nos. 1 and 1A.

Based on the findings of the Assessment of Past Uses, potentially contaminating activities were identified both on the Project Lands and within the Study Area that are considered likely to cause an area of potential environmental concern on the Project Lands. As such, it is the opinion of SOIL-MAT ENGINEERS & CONSULTANTS LTD. that a sampling and analysis plan is required for the Project Lands. Specifically, the plan is required to assess the concentration and distribution of contaminants of potential concern in the soil medium in areas scheduled to be excavated from the Project Lands. Based on the identified PCAs the relevant COPCs would include Metals and Inorganics [M/I], PHC and VOC.

2.0 INTRODUCTION

URBAN & ENVIRONMENTAL MANAGEMENT INC. retained SOIL-MAT ENGINEERS & CONSULTANTS LTD. [SOIL-MAT ENGINEERS] to conduct an Assessment of Past Uses for a section of asphaltic-concrete surfaced municipal roadway, being Lundy's Lane roughly between Highland Avenue and Regional Road 98 [Montrose Road] in Niagara Falls, Ontario.

For the purpose of this Report, the lands subject to the specific Assessment of Past Uses are referred to as the 'Project Lands' and/or the 'Site'. Of note, our Assessment of Past Uses included the lands in an approximate 50 metres radius from the Project Lands. These lands are hereinafter referred to as the "Study Area" lands.

2(a) PROJECT LANDS INFORMATION

The Project Lands are comprised of the following section of municipal roadway:

- The section of Lundy's Lane approximately 1.73 kilometers in length extending from Regional Road 98 [Montrose Road] to Highland Avenue.

At the time of this Report, the Site was comprised of asphaltic-concrete surfaced roadways and associated paved/soft shoulders.

The Project Lands were bound to the north, east, south and west by a mixture of commercial, residential and community lands.

For descriptive purposes, Lundy's Lane has been designated as having an east-west alignment.

The Project Lands are comprised of part of seven [7] parcels of land. The property identification number [PIN] for one of the noted parcels revealed the registered owner is "The Regional Municipality of Niagara". The legal description of the reviewed parcel within the Project Lands is as follows:

1. **PIN 64418-0108:** "Part Township Lot 132 Stamford as in AA96852; Part 1 59R10339; Part 7 59R2982; Part of part 1 59R594; as in R0180983 Except that Portion Lying West of the Sly Production of the Southwest corner of Part 1 59R594; Part Township Lot 141 Stamford as in R0503795 (29thly, 30thly, 31stly, 32ndly) AA88486; Part 1 59R1248; Part RDAL Between Lots 132 & 133 Stam, Being Lundy's Lane (aka Regional Road 51) Lying Between Montrose Road (aka Regional Road 98) & Q.E.W.; Part 1 59R10938; Niagara Falls"

Given that the remainder of the parcels are comprised of municipal right-of-ways/roadways, it is inferred the registered owner is the same for all parcels within the Project Lands. As such, the other six [6] parcel's legal descriptions were not reviewed during the completion of this report.

The geographic coordinates of the Site, recorded using a hand held global positioning unit, are [NAD 83] 17T 653611E/ 4772451N.

A general Project Lands location drawing and overview of the Assessment of Past Uses Study Area lands is included in Appendix 'A' for reference.

2(b) DESCRIPTION OF ADJACENT LAND USE

The adjacent properties are comprised of commercial, community and residential lands.

A description of the adjacent properties, based on visual observations recorded from the Site, is presented below:

	North	East	South	West
Adjoining Property/ Operation	Community / Residential / Commercial	Lundy's Lane	Residential / Commercial	Lundy's Lane
Potential Hazardous Materials	None observed	None observed	None observed	None observed
Potential Storage Tanks	None observed	None observed	None observed	None observed
Direction with respect to the inferred ground water flow	Down-gradient	Trans-gradient	Up-gradient	Trans-gradient
General Vicinity	Community / Residential / Commercial	Lundy's Lane / Commercial	Residential / Commercial	Lundy's Lane / Commercial

The visual observations of the adjoining lands revealed Gale's Gas Station [an RFO] located at 6644 Lundy's Lane. Given the close proximity of this property to the Site there may be an adverse environmental impact to the Site from this property.

Midas Auto Repair Shop [an automotive repair facility] was observed at 6910 Lundy's Lane. Given the close proximity of this property to the Site there may be an adverse environmental impact to the Site originating from this property.

Harrigan's Auto Clinic [an automotive repair facility] was observed at 6499 Lundy's Lane. Given the close proximity of this property to the Site there may be an adverse environmental impact to the Site originating from this property.

Active Green and Ross Tire and Automotive Centre [an automotive repair facility] was observed at 7009 Lundy's Lane. Given the close proximity of this property to the Site there may be an adverse environmental impact to the Site from this property.

With respect to the remaining commercial properties on the adjacent lands, the operations at these properties are limited to commercial services such as retail, food service, etc. that are not considered potential contaminating activities. As such, an adverse environmental impact to the Site originating from these properties is considered remote.

The visual observations of the adjoining lands did not reveal any other obvious PCAs that are considered likely to cause an APEC on the Project Lands.

3.0 SCOPE OF INVESTIGATION

The Assessment of Past Uses follows the protocol outlined in *Ontario Regulation 406/19 [as amended]*, which suggests a four-step approach, including the following;

1. RECORDS REVIEW: including aerial photographs, property use records, title search, previous environmental reports, regulatory agency documentation, company records, Site specific geotechnical reports and any other relevant material;

2. SITE VISITATION: including a visual reconnaissance of the Site, suspect adjacent properties, and the different land uses within the vicinity of the Site;

3. INTERVIEWS: including persons that may have pertinent information with regard to the Site, including contacts from the City of Niagara Falls, Ministry of Environment, Conservation and Parks [MOE], and current / previous land owners, etc.;

4. EVALUATIONS: Based on the information gathered, a professional evaluation of the property is presented in a final Assessment of Past Uses Report.

Specifically, the Assessment of Past Uses must achieve the following general objectives:

i. To develop a preliminary determination of the likelihood that one or more contaminants have affected soil or rock in a location where soil or crushed rock is to be excavated within the project area [referred to as 'Project Lands];

ii. To identify any areas of potential environmental concern on the Project Lands and to determine if any location where soil or crushed rock is to be excavated could have been affected by a potentially contaminating activity;

iii. To identify the contaminants of potential concern to determine the focus of the sampling and analysis plan, if any areas of potential environmental concern are identified.

4.0 RECORDS REVIEW

4(a)i ASSESSMENT OF PAST USES STUDY AREA DETERMINATION

The Study Area lands consists of the lands generally in a 50-metre radius from the limits of the Project Lands. These lands are comprised primarily of a mixture of commercial, community, and residential lands. Typically, the Study Area would consist of a 250 metre radius from the Project Lands. However, considering the relatively impermeable soils in the vicinity of the Site, it is the opinion of the SOIL-MAT ENGINEERS that potential off-site PCAs greater than 50 metres from the Site are not considered likely to result in adverse impacts to the soil within the Project Lands.

The research undertaken during this Assessment of Past Uses revealed an on-site PCA and fourteen [14] PCAs on the lands within the Study area that are considered likely to cause an APEC on the Project Lands.

4(a)ii FIRST DEVELOPED USE DETERMINATION

Based on the available information compiled during the completion of this Report, including aerial photographs, topographic maps, etc., the first developed use of the Site was prior to 1906 as community use lands as a municipal roadway.

4(a)iii FIRE INSURANCE PLANS

The Underwriter's Survey Bureau Limited fire insurance plans were reviewed for the purpose of identifying structures, building materials and/ or underground storage tanks that may have been present on/ or near the Site.

A summary of SOIL-MAT ENGINEERS' findings is present below:

Date of Plan	Findings
1951	A gasoline service station [an RFO], with four [4] underground fuel storage tanks [USTs], is illustrated at 2555 Lundy's Lane, which is located adjacent to the north of the Site. This property is currently identified by the municipal address 6555 Lundy's Lane. Given the close proximity of this facility to the Site there may be an adverse environmental impact to the Site from this property.
1965	An auto service facility, with an UST, is illustrated at 3600 Lundy's Lane, which is located adjacent to the south of the Site. This property is currently identified by the municipal address 7600 Lundy's Lane. Given the close proximity of this facility to the Site there may be an adverse environmental impact to the Site from this property.
1965	A laundry cleaning and pressing facility [inferred to be a dry cleaner] is illustrated at 2710 Lundy's Lane, which is located adjacent to the south of the Site. This property is currently identified by the municipal address 6710 Lundy's Lane. Given the close proximity to the Site there may be an adverse environmental impact to the Site from this property.
1965	An auto service facility, with an UST is illustrated at 2499 Lundy's Lane, which is located adjacent to the north of the Site. This property is currently identified by the municipal address 6499 Lundy's Lane. Given the close proximity of this facility to the Site there may be an adverse environmental impact to the Site from this property.

Date of Plan	Findings
1965	An auto service facility, with an UST is illustrated at 2555 Lundy's Lane, which is located adjacent to the north of the Site. This property is currently identified by the municipal address 6555 Lundy's Lane. Given the close proximity of this facility to the Site there may be an adverse environmental impact to the Site from this property.
1965	A dry cleaners' facility is illustrated at 2488 Lundy's Lane, which is located adjacent to the south of the Site. This property is currently identified by the municipal addresses 6488 Lundy's Lane. Given the close proximity of this facility to the Site there may be an adverse environmental impact to the Site from this property.

4(a)iv CHAIN OF TITLE

A representative of SOIL-MAT ENGINEERS undertook a title search of the Project Lands on the Ontario Land Registry Website [https://www.onland.ca/ui/].

The title search of the Project Lands did not reveal any past owners that may suggest there is a potential environmental liability on the Project Lands.

The Project Lands were owned by "The Regional Municipality of Niagara" at the time of the title search.

Of note, a complete chain of title search back to "Crown" land was not conducted for the Project Lands as it was determined that this would not result in any other pertinent information with respect to the past uses of the Project Lands that were not already identified through other historical records reviewed.

A copy of the title search documents is included in Appendix 'B' for reference.

4(a)v ENVIRONMENTAL REPORTS

SOIL-MAT ENGINEERS contacted the City of Niagara to request a copy of previous environmental reports for the Site that may be on file with the City. However, the results were not available prior to the completion of this Report.

In addition, a search of the MOE's *Brownfields Environmental Site Registry* did not reveal a previous Phase One ESA, Phase Two ESA, remedial action plan, etc. that may have been undertaken on the Project Lands.

However, a search of the Registry revealed an RSC filed on the basis of a Phase One, Phase Two, and Risk Assessment on December 21, 2012 for 6499 Lundy's Lane [RSC File Number: 206351], which is located adjacent north of the Site, between Glenholme Avenue and Highland Avenue. Given the close proximity of this property to the Site, there may be an adverse environmental impact to the Site from this property.

4(a)vi HISTORICAL SITE USE AND CONDITIONS/PAST LAND USES

The Vernon City Directory series were reviewed dating back to 1920 [the earliest available year that the Study Area is listed] to establish the general historical land use on and in the

immediate vicinity of the Site. It is noted that the 2014 directory is the most recent readily available directory for the Site and surrounding area.

As the study lands are comprised of a municipal roadway the directories do not list any current or past occupants of the Site.

A summary of the historical occupants of interest on the adjoining properties is listed below:

Location	Property	Occupant	Years Occupied
7009 Lundy's Lane Located adjacent to the north of the Site [Down-gradient]	Commercial	Active Green & Ross Tire and Auto Centre	3 Years [2011-2014]
		Speedy Auto Service	25 Years [1985-2010]
6499 Lundy's Lane Located adjacent to the north of the Site [Down-gradient]	Commercial	Lundy's Lane Shell	42 Years [1956-1998]
6555 Lundy's Lane Located adjacent to the north of the Site [Down-gradient]	Commercial	Lundy's Lane Sunoco Service Station	37 Years [1952-1989]
6710 Lundy's Lane Located adjacent to the north of the Site [Down-gradient]	Commercial	Coburn Dry Cleaners & Laundry	23 Years [1961-1984]
7279 Lundy's Lane Located adjacent to the north of the Site [Down-gradient]	Commercial	Yazz Cleaners	4 Years [2005-2009]
6910 Lundy's Lane, formerly 2941 Lundy's Lane Located adjacent to the north of the Site [Down-gradient]	Commercial	Hartzner I.C Service Station	9 Years [1940-1949]
7600 Lundy's Lane, formerly 3600 Lundy's Lane Located adjacent to the south of the Site [Up-gradient]	Commercial	Lundy's Lane Find Service Station	5 Years [1974-1979]
		M&S Serv. Centre Service Station	2 Years [1968-1970]

4(b) ENVIRONMENTAL SOURCE INFORMATION

1. National Pollutant Release Inventory: No records were found for the Project Lands. However, the EcoLog ERIS report revealed nine [9] National Pollutant Release Inventory records for H&R Real Estate Investment Trust located at 7500 Lundy's Lane. Although this property is located adjacent to the south of the Site, given the nature of the NPRI records, this operation is not considered a PCA likely to cause an APEC on the Site.

2. A review of the Ministry of Environment and Energy's "Ontario Inventory of PCB Storage Sites", October, 1991 did not reveal any major or minor storage sites within a 1.5km radius of the Site. It is noted that although the inventory is

considered a comprehensive inventory, not all of the storage sites are listed in the inventory.

3. Environmental Compliance Approvals, Permit to Take Water, Certificate of Property Use: There were no records found for the Site. However, the following records were found within the Study Area;

   A search of the Certificate of Property Use [CPU] database revealed one record associated with Shell Canada Limited located at 6499 Lundy's Lane, which is adjacent to the north of the Site. The CPU was issued based on the findings of RSC described in section 4(a)V above. Given the close proximity of this property to the Site there may be an adverse environmental impact to the Site from this property.

   A search of the Environmental Compliance Approval [ECA] database revealed one record associated with 1137798 Ontario Limited and two [2] records associated with The Regional Municipality of Niagara. Although the ECA sites listed are located on properties adjacent to the Site [6812 and 7565 Lundy's Lane], given the nature of the ECA [i.e., discharge to air, water, etc.], an adverse environmental impact to the Site from these properties is considered remote.

   In addition to the above, eight [8] unplotted ECA records associated with municipal and private sewage works and water works that intersect Lundy's Lane. Given the nature of these ECAs, an adverse environmental impact to the Site as a result of these operations is considered remote.

   A search of the Permit to Take Water [PTTW] database, did not reveal any records of PTTW sites within the Study Area.
4. Coal Gasification Plants: No records were found for the Project Lands or the Study Area.

5. Records Concerning Environmental Incidents, Orders, Offences, Spills, Discharges of Contaminants or Inspections Maintained by the MOE: The MOE was contacted to gather information with regard to the Project Lands. SOIL-MAT ENGINEERS had not received the pertinent information from the MOE at the time of this Report. However, the results will be sent under a separate cover as soon as they are received in this Office.

   SOIL-MAT ENGINEERS' MOE database search results are attached in Appendix 'C' for reference.

   In addition to the above, the EcoLog ERIS report revealed four [4] records of Ontario Spills [SPL] within the Study Area, including the following;

   - March 10, 1995: Pipe/Hose Leak with possible environmental impact located at Lundy's Lane crossing of the Hydro Canal water supply system.
   - October 2, 2017: Natural Gas [Methane] leak to air medium associated with Enbridge Gas Distribution Inc. located at 7500 Lundy's Lane.

- September 4, 1991: Four [4] litres of paint and thinners to pavement from drum leak, with no anticipated environmental impact, associated with Sunoco Station located at 6555 Lundy's Lane.
- July 11, 1989: 200 litres of gasoline spill associated with Sunoco service station; exact location not provided; however, it is inferred based on information obtained from the Vernon City Directory this property is located at 6555 Lundy's Lane.

With respect to the above listed spill located on the 6555 Lundy's Lane property, given the close proximity of this property to the Site there may be an adverse environmental impact to the Site as a result of the spill on this property.

With respect to the remaining SPL records listed above, given the nature of the spills, location/elevation relative to the Site and/or description of anticipated environmental impact provided, an adverse environmental impact to the Site as a result of these spills is considered remote.

6. Waste Management Records: No records were found for the Project Lands. However, there are 59 waste generator [GEN] sites within the Study Area, including the following adjacent properties:

    - There are eleven [11] GEN records located at 6738-6758 Lundy's Lane Unit 1, associated with Sherwin-Williams Company, including the following waste products:
        - Paint/ Pigment/ Coating Residues
        - Polymeric Resins
        - Waste Compressed Gases
        - Inorganic Laboratory Chemicals

    - There is one GEN record for the property located at 6644 Lundy's Lane, associated with Gales Gas Bar Ltd., including the following waste products:
        - Lights Fuels

    - There are six [6] GEN records for the property at 6499 Lundy's Lane, associated with Shell Canada including the following waste products:
        - Light Fuels

    With respect to the above listed properties given their close proximity to the Site there may be an adverse environmental impact to the Site.

    With respect to the remaining 41 GEN sites listed in the EcoLog ERIS report, these are associated with commercial and pharmacy operations which are not considered PCAs. As such, an adverse environmental impact to the Site from these properties is considered remote.

7. Reports Submitted to the MOE: No records were found for the Project Lands or for the adjacent properties.

8. Retail Fuel Storage Tanks: SOIL-MAT ENGINEERS contacted the Technical Standards and Safety Authority [T.S.S.A.] to undertake a search of the neighbouring properties for the registered presence of any underground fuel storage tanks [USTs]. The T.S.S.A. search of neighbouring properties revealed the following:

    - **6499 Lundy's Lane [adjacent to the north]** There are records of the following:
        - Expired full-service propane tank;
        - Five [5] expired full-service liquid fuel tank [i.e., USTs];
        - An expired full-service propane refill center – cylinder fill, and;
        - An expired full-service gasoline station

    - **6644 Lundy's Lane [adjacent to the south]** There are records of the following:
        - Three [3] full-service liquid fuel tanks [i.e., USTs];
        - An active fuel-service liquid fuel tank [i.e., UST], and;
        - A full-service gasoline station.

    - **6839 Lundy's Lane [adjacent to the north]** There are records of the following;
        - An active full-service cylinder exchange
    - **6555 Lundy's Lane [adjacent to the north]** There are records of the following;
        - An expired full-service gasoline station
        - An expired self-serve full-service gasoline station, and;
        - Eight [8] expired full-service liquid fuel tanks [i.e., USTs]

    With respect to the above, given the close proximity of these properties to the Site, there may be an adverse environmental impact to the Site from these properties.

    It is however noted that the T.S.S.A. does not have records of USTs installed prior 1987. In addition, "private use" USTs were not registered with the agency until 1990, and even then many owners of "private use" USTs do not register the tanks with T.S.S.A.

    SOIL-MAT ENGINEERS' correspondence with the T.S.S.A. is included in Appendix 'C' for reference.

9. Notices and Instruments Posted to the MOE Registry: No records were found for the Project Lands, however one Environmental Registry [EBR] site was listed at 6812 Lundy's Lane. Given the nature of the EBR [i.e., discharge to air], an adverse environmental impact to the Site from this property is considered remote.

10. Identification of Areas of Natural Significance [Ministry of Natural Resources]: No records were found for area(s) of natural significance on the Project Lands or on the lands located in the Study Area.

11. Landfill Information Maintained by the MOE: A review of the Ministry of Environment and Energy's "Waste Disposal Site Inventory", June 1991, did not reveal any active landfill sites within a 2km radius of the Project Lands. In addition, one inactive landfill site was identified within a 2km radius of the Project Lands.

A list of the landfill properties is provided below on the following page for reference.

MOE Site No.	Municipality	Location	Date Closed	Class	Distance to Site
X 8036	Niagara Falls	Valley Way Road	1958	A7	1.29km SE

With respect to the inactive waste disposal sites, class 'A7' sites are registered to receive municipal and domestic wastes, are located in an urban setting and have been closed for over twenty [20] years. The MOE inactive site x 8036 is located down-gradient with respect to the inferred groundwater flow direction. Given the location of this property to the Project Lands with respect to the inferred groundwater flow direction and the distance between this property and the Project Lands, this operation is not considered a PCA likely to cause an APEC on the Site.

It is noted that although the waste disposal site inventory is considered a comprehensive document not all of the inactive landfill sites are listed in the inventory.

12. EcoLog ERIS Database Search: A review of historical records and regulatory agency databases was completed for the Site and lands located within 250 metres from the boundaries of the Project Lands. The report includes information from the following sources:

- Borehole
- Certificates of Approval
- Environmental Registry
- ERIS Historical Searches
- Fuel Storage Tanks
- Fuel Oil Spills and Leaks
- Greenhouse Gas Emissions from Large Facilities
- National PCB Inventory
- National Pollutant Release Inventory
- Ontario Regulation 347 Waste Generators Summary
- Ontario Oil and Gas Spills
- Ontario Spills
- Pesticide Register
- Pipeline Incidents
- Private and Retail Fuel Storage Tanks
- Record of Site Conditions
- Water Well Information Systems

The EcoLog ERIS database search report revealed limited PCAs on nearby properties, including the following:

- **6499 Lundy's Lane** [Shell Canada – Adjacent to the north]
  - One Certificate of Property Use associated with the service station
  - Six [6] records for waste generation associated with the service station

- **6738-6758 Unit 1 Lundy's Lane** [Sherwin-Williams Company – Adjacent to the south]

- Eleven [11] records of waste generation associated with the commercial paint facility

- **6644 Lundy's Lane** [Gales Gas Bar – Adjacent to the south]
  - One record of waste generation associated with the service station

- **6555 Lundy's Lane** [Sunaco Service Station – Adjacent to the north]
  - One record of a 200 litres gasoline spill

These operations are considered PCAs likely to result in APECs on the Site. With the exception of the above noted items, the EcoLog ERIS report did not reveal any other properties PCAs considered likely to cause an APEC on the Site.

A copy of the EcoLog ERIS Report is included in Appendix 'D' for reference.

4(C) PHYSICAL SETTING SOURCES

1. Aerial Photographs: Aerial photographs from 1934, 1954, 1968, 1995, 2006, 2015 and 2021 were available for the Project Lands and Study Area and were reviewed by SOIL-MAT ENGINEERS.

   A summary of information obtained from the photographs is presented below:

Aerial Photo Year [Scale]	Site Description	Description of Adjacent Lands
1934 [1:7,100]	The Project Lands are comprised of a municipal roadway.	East of the Queenston-Chippawa Power Canal the surrounding lands are comprised primarily of commercial lands. West of the Canal the surroundings lands are comprised primarily of agricultural lands.
1954 [1:7,570]	There are no significant changes to the Project Lands.	A portion of the QEW has been constructed and sparse commercial development has occurred west of the Queenston-Chippawa Power Canal. East of the Canal there has been significant commercial and residential development.
1968 [1:7,570]	With the exception of the widening of Lundy's Lane, there are no significant changes to the Project Lands.	There are no significant changes to the surrounding lands.
1995 [1:7,000]	There are no significant changes to the Project Lands.	There are no significant changes to the surrounding lands.
2006 [1: 7,000]	There are no significant changes to the Project Lands.	With the exception of Canada One Outlet Mall being constructed west of the QEW, there are no significant changes to the surrounding lands.
2015 [1:6,900]	There are no significant changes to the Project Lands.	There are no significant changes to the surrounding lands.
2021 [1:6,950]	There are no significant changes to the Project Lands.	There are no significant changes to the surrounding lands.

The review of the noted aerial photographs revealed historical widening/roadway improvements along Lundy's Lane. As such, it is anticipated that fill material may be present within the road right of way(s). The importation of fill material of unknown quality is a PCA considered likely to cause an APEC on the Project Lands.

The review of the noted aerial photographs did not reveal any other information that would suggest there is a PCA on the Project Lands or on nearby properties that will result in an APEC on the Project Lands.

The aerial photographs are included in Appendix 'E' for reference.

2. Topography, Hydrology, Geology: Readily available topographic maps for the Project Lands and lands located in the Study Area were reviewed as part of this Report and revealed the following information:

Map Year [Scale]	Site Description	Description of Surrounding Lands
1906 [1:63,360]	The Project Lands are illustrated as a municipal roadway.	The Study Area is comprised primarily of undeveloped agricultural lands with sparse development along Lundy's Lane.
1925 [1:63,360]	The Project Lands are illustrated as a municipal roadway.	The Study Area is comprised primarily of undeveloped agricultural lands with sparse development along Lundy's Lane. The Queenston-Chippawa Power Canal intersects the west portion of the Project Lands.
1942 [1:63,360]	The Project Lands are illustrated as a municipal roadway.	The Study Area is comprised primarily of developed lands. The QEW and Queenston-Chippawa Power Canal intersects the west portion of the Project Lands.
1996 [1:50,000]	The Project Lands are illustrated as a municipal roadway.	The Study Area is illustrated in a 'build-up' area with the QEW and Queenston-Chippawa Power Canal intersects the west portion of the Project Lands.

The review of the topographic maps did not reveal any information that would suggest there is a PCA on the Project Lands or on nearby lands that are considered likely to cause an APEC on the Project Lands.

A copy of the topographic maps is included in Appendix 'F' for reference.

A review of the Ministry of Northern Development and Mine's "Quaternary Geology of the Niagara Area, Southern Ontario Sheet Map M2496" and the "Paleozoic Geology of the Niagara Area, Southern Ontario Sheet Map M2344" revealed the Site to be underlain by glaciolacustrine deposits of nearshore and deltaic sand and silt, in turn underlain by Lockport formation Dolostone bedrock.

The topography of the Project Lands is relatively flat and level. Surface water is directed primarily to the catch basins located along Lundy's Lane.

Regional groundwater flow for the western portion of the Project Lands is expected to the northeast towards the Queenston-Chippawa Power Canal. Regional groundwater flow for the eastern portion of the Project Lands is expected to the northwest towards the Queenston-Chippawa Power Canal. The Canal flows to the north toward the Sir Adam Beck Generating Station and empties in to the Niagara River and ultimately, Lake Ontario.

3. Fill Materials: The reconnaissance of the Project Lands did not reveal any obvious visual evidence of significant fill material on the Project Lands. However, it is anticipated that fill material is present on the Project Lands associated with historical widening/improvements and/or infrastructure installations along the roadways. This potential presence of fill is considered a PCA likely to result in an APEC on the Site.

4. Water Bodies and Areas of Natural Significance: With the exception of the Queenston-Chippawa Power Canal which runs under the western portion of the Project Lands, there are no other water bodies in whole or in part within the Study Area. In addition, no areas of natural significance were identified on the Project Lands or on lands located within the Study Area.

5. Well Records: The reconnaissance of the Site did not reveal any obvious visual evidence of a suspected potable groundwater well, monitoring well or cistern on the Project Lands.

   A review of the MOE's water well records did not reveal any potable and/or groundwater monitoring wells on the Project Lands. However, the review did reveal [4] four groundwater monitoring wells within the Study Area. The monitoring wells are reportedly located approximately 20 to 50 metres from the Project Lands and terminate at depths between2.1 to 24.4 metres below ground surface. In addition, the review of the MOE's water well records did not reveal any potable wells on the lands located within the Study Area.

4(d) SITE OPERATING RECORDS

1. Title of the Information Sheet or Document: Not Applicable

2. Description of Data, Analysis or Findings as the Information Sheet or Document relates to the Phase One Property: Not Applicable

5.0 INTERVIEWS

No Site personnel were available to be interviewed during the completion of this Report.

In addition, as part of the Assessment of Past Uses research, SOIL-MAT ENGINEERS has reached out to multiple parties that may have knowledge of the historical operations on the Site, including the City of Niagara, MOE and the T.S.S.A. The findings of these inquiries are summarized in the relevant sections above.

6.0 SITE RECONNAISSANCE

6.0 (a) GENERAL REQUIREMENTS:

Reporting Requirements	SOIL-MAT ENGINEERS' Details
Date and Time of the Reconnaissance	November 22, 2021 [3:30 to 4:00pm]
Weather Conditions	The weather conditions did not limit the visual observations of the Site.
Duration of Site Visit	~0.5 hour
Enhanced Investigation Property	The property is not an enhanced investigation property.
Field Representative	Mrs. Melissa Tolton [qualifications included in Appendix 'I']

6.0(b) SPECIFIC OBSERVATIONS AT PHASE ONE PROPERTY

Reporting Requirements	SOIL-MAT ENGINEERS' Details
Description of Structures and Other Improvements	None observed.
Description of the Number, Age and Depth of Below-Ground Structures	None observed
Details of all tanks (aboveground and underground)	None observed. In addition, the research did not reveal any evidence of past tanks on the Project Lands.
Details of any potable and non-potable water sources	A municipal water supply main runs along the Project Lands.
Buried Utilities	The Project Lands are serviced with water and telecommunication services, etc. The depth of these service trenches is not anticipated to affect potential contaminant distribution on the Site.
Existing Buildings: Exit/Entry Points	None observed.
Existing Buildings: Cooling / Heating System	None observed
Existing Buildings: Drains, Pits, Sumps, etc.	None observed
Existing Buildings: Details of any unidentified substances	None observed
Existing Buildings: Details of Stains, Corrosion on Floors other than from Water	None observed
Details of Former and Current Wells	None observed
Details of Sewage Works	A municipal sanitary force main runs across Lundy's Lane between Royal Manor Drive and the Queenston-Chippawa Power Canal. In addition, municipal sewers run along Lundy's Lane.
Details of Ground Surface Cover	The Project Lands are comprised of a municipal roadway surfaced with asphaltic concrete and adjacent concrete sidewalks.
Details of Former or Current Railway Lines	None observed.
Details of Stained Soil, Damaged Vegetation or Pavement	None observed
Details of Stressed Vegetation	None observed

Reporting Requirements	SOIL-MAT ENGINEERS' Details
Areas Where Fill and Debris Materials Appear to be Present	The reconnaissance of the Project Lands did not reveal any obvious visual evidence of significant fill material on the Project Lands. However, it is anticipated that fill material is present on the Project Lands. Specifically, associated with historical the widening/improvement and/or infrastructure installations along the roadways. This potential presence of fill is considered a PCA likely to result in an APEC on the Site.
PCAs	PCA No.: 30: Importation of Fill Material of Unknown Quality [On-Site: Resulting from the historic widening/improvements and/or infrastructure installations along the municipal roadway]; PCA No.: 10: Commercial Autobody Shops [Off-Site: Active automotive repair facility at 7009 Lundy's Lane]; PCA No.: 10: Commercial Autobody Shops [Off-Site: Active automotive repair facility at 6910 Lundy's Lane]; PCA No.: 28: Gasoline and Associated Products Storage in Fixed Tanks [Off-Site: Active service station [an RFO] at 6644 Lundy's Lane];

1. Enhanced Investigation Property

   The property is not an enhanced investigation property.

Reporting Requirements	SOIL-MAT ENGINEERS' Details
Details of the Operations at the Site	Not applicable
Hazardous Materials Used/Stored on the Site	Not applicable
Products Manufactured on the Site	Not applicable
By-Products and Wastes at the Site	Not applicable
Raw Materials, including the Handling and Storage	Not applicable
Details of Drums, Totes, Bins	Not applicable
Details of Oil/Water Separators	Not applicable
Details of Vehicle and Equipment Maintenance Areas	Not applicable
Details of Known Spills	Not applicable
Details of Liquid Discharge Points	Not applicable
Details of Operations at the Site [processing or manufacturing and equipment used]	Not applicable
Details of Hydraulic Lift Equipment	Not applicable

6.0 (C) WRITTEN DESCRIPTION OF INVESTIGATION

The information gathered during the completion of this Assessment of Past Uses Report revealed that the Project Lands were first developed before 1906 as community use lands as municipal roadways. The first readily available visual aid for the Site is a topographic map from 1906, which illustrates the Project Lands as a municipal roadway. Other visual aids, including aerial photographs from 1934, 1954, 1968, 1995, 2006, 2015 and 2021 and topographic maps from 1925, 1942 and 1996 and fire insurance plans from 1951 and 1965 confirm the development timeline above.

The research completed during the Assessment of Past Uses revealed one potentially contaminating activity [PCA] on the Project Lands. Specifically, information extrapolated from historical aerial photographs, including an aerial photograph from 1968 revealed the potential fill material present as result of historical widening, improvements and/or infrastructure installations along the existing roadways that comprise the Project Lands.

In addition, fourteen [14] PCAs were identified within the Study Area that are considered likely to cause an area of potential environmental concern [APEC] on the Project Lands including the following:

- The reconnaissance of the site revealed one retail fuel outlet [RFO] located at 6644 Lundy's Lane and three [3] commercial autobody repair facilities located at 6910, 6499, and 7009 Lundy's Lane;
- The review of the historical fire insurance plans, including plans from 1951 and 1965 revealed three [3] historic auto service facilities located at 6499, 6555, and 7600 Lundy's Lane, and two historic dry cleaner operations located at 6488 and 6710 Lundy's Lane;
- The review of the Vernon City Directories series revealed an autobody repair facility at 7009 Lundy's Lane, four [4] historic service stations located at 6910, 6499, 6555, and 7600 Lundy's Lane, and two [2] dry cleaners located at 6710 and 7279 Lundy's Lane;
- A search of the Ministry of Environment, Conservation and Parks [MOE] Brownfields Environmental Site Registry revealed a Phase One, Phase Two, Record of Site Condition [RSC] and a Risk Assessment [RA] filed on December 21, 2012 for the property located at 6499 Lundy's Lane. The RSC filing indicated soil and groundwater with elevated petroleum hydrocarbons [PHCs] including benzene, toluene, ethylbenzene and xylenes [BTEX] and volatile organic compounds [VOCs] remained in place on the property as of the date of filing;
- Information gathered from T.S.S.A records revealed four [4] properties with registered underground fuel storage tanks including 6555, 6499 and 6644 Lundy's Lane, and;
- Information gathered from an EcoLog ERIS Database search revealed waste generators at 6738-6758 [unit 1], 6644, and 6499 Lundy's Lane. In addition, a Certificate of Property Use was listed for 6499, and an Ontario spill was recorded in association with 'Sunoco Service Station', inferred to be located at 6555 Lundy's Lane.

The lands in the Study Area are comprised of a mixture of commercial, community and residential lands.

7.0 REVIEW AND EVALUATION OF INFORMATION

(i) Current and Past Uses: SOIL-MAT ENGINEERS' Table of Current and Past Uses is included below:

Table of Current and Past Uses of Project Lands

Year	*Name of Owner*	*Description of Property Use*	*Property Use*	*Other Observations from Aerial Photographs, fire insurance plans, etc.*
Before 1906 to Present	The Regional Municipality of Niagara	The Project Lands were comprised of a municipal roadway.	Community	• Aerial photographs from 1934, 1954, 1968, 1995, 2006, 2015 and 2021, topographic maps from 1906, 1925, 1942, and 1996 and fire insurance plans from 1951 and 1965 illustrate the Project Lands as municipal roadways. Observations recorded during the site reconnaissance confirm the Project Lands remain as such to present day.

(ii) Potential Contaminating Activity: One PCA was identified on the Project Lands, and fourteen [14] PCAs were identified on the lands within the Study Area, including the following:

Table of PCAs

PCA ID	*Location of PCA*	*PCA No. and Description*	*Rationale*
PCA 1	On-Site	30. Importation of Fill Material of Unknown Quality	• Potential for the importation of fill material of unknown quality during historical widening/improvements and infrastructure installations along the roadway
PCA 2a	Off-Site: 7600 Lundy's Lane	28. Gasoline and Associated Products Storage in Fixed Tanks	• The review of the Vernon's City Directory series and a fire insurance plan from 1965 revealed this property was formerly occupied by an automotive service station [inferred to be an automotive repair facility] with an UST
PCA 2b		10. Commercial Autobody Shops	
PCA 3	Off-Site: 7279 Lundy's Lane	37. Operation of Dry-Cleaning Equipment (where chemicals are used)	• The review of the Vernon City Directories series revealed a dry cleaner formerly operated on this property

PCA ID	Location of PCA	PCA No. and Description	Rationale
PCA 4	Off-Site: 7009 Lundy's Lane	10. Commercial Autobody Shops	• The review of the Vernon City Directories series and information recorded during the reconnaissance of the Site revealed a current automotive repair facility in operation on this property.
PCA 5a	Off-Site: 6910 Lundy's Lane	10. Commercial Autobody Shops	• Observations during the site reconnaissance revealed a current automotive repair facility in operation on this property.
PCA 5b		28. Gasoline and Associated Products Storage in Fixed Tanks	• The review of the Vernon City Directories series revealed a a former service station [inferred to be an RFO] historically operated on this property.
PCA 6	Off-Site: 6710 Lundy's Lane	37. Operation of Dry-Cleaning Equipment (where chemicals are used)	• The review of the Vernon's City Directory series and a fire insurance plan from 1965 revealed a dry cleaner formerly operated on this property
PCA 7	Off-Site: 6738-6758 Unit 1	39. Paints Manufacturing, Processing and Bulk Storage	• The EcoLog ERIS report revealed a retail paint company formerly operated on this property
PCA 8	Off-Site: 6644 Lundy's Lane	28. Gasoline and Associated Products Storage in Fixed Tanks	• Observations during the site reconnaissance revealed a gas station [a RFO] is located on this property.
PCA 9a	Off-Site: 6555 Lundy's Lane	28. Gasoline and Associated Products Storage in Fixed Tanks	• The review of the Vernon City Directories series, fire insurance plans from 1951 and 1965 and the T.S.S.A. database search revealed a gasoline service station [an RFO] formerly operated on this property.
PCA 9b		Other. Ontario Spill	• The EcoLog ERIS report revealed a 200-litre gasoline spill occurred on this property
PCA 10a	Off-Site: 6499 Lundy's Lane	28. Gasoline and Associated Products Storage in Fixed Tanks	• The review of the Vernon City Directories series, a fire insurance plan from 1965, the EcoLog ERIS report and the Brownfield Site Registry revealed a gasoline service station formerly operated on this property. In addition, it is noted that there is residual VOC and/or PHC impacts in soil and groundwater as documented in the RSC filed for this property.
PCA 10b		10. Commercial Autobody Shops	• Observations during the Site reconnaissance revealed an automotive repair facility is currently in operation on the property.
PCA 11	Off-Site: 6488 Lundy's Lane	37. Operation of Dry-Cleaning Equipment (where chemicals are used)	• A fire insurance plan from 1965 revealed a dry cleaner formerly operated on this property.

A full PCA Summary Table with associated APEC locations and rational is included in Appendix 'A' for reference.

(iii) Areas of Potential Environmental Concern: SOIL-MAT ENGINEERS' APEC table is presented below:

Table of APECs

Area of Potential Environmental Concern	Location of APEC on Phase One Property	Potentially Contaminating Activity	Locations of PCA	Contaminants of Potential Concern	Media Potentially Impacted
APEC 1	Entire Site	30. Importation of Fill Material of Unknown Quality	On-Site	Metals, PHCs, & BTEX	Soil
APEC 2	Adjacent to the 7600 Lundy's Lane property	28. Gasoline and Associated Products Storage in Fixed Tanks	Off-Site	Metals, PHCs, BTEX, PAHs & VOCs	Soil
		10. Commercial Autobody Shops	Off-Site	Metals, PHCs, BTEX, & VOCs	Soil
APEC 3	Adjacent to the 7279 Lundy's Lane property	37. Operation of Dry-Cleaning Equipment (where chemicals are used)	Off-Site	VOCs	Soil
APEC 4	Adjacent to the 7009 Lundy's Lane property	10. Commercial Autobody Shops	Off-Site	Metals, PHCs, BTEX, PAHs & VOCs	Soil
APEC 5	Adjacent to the 6910 Lundy's Lane property	10. Commercial Autobody Shops	Off-Site	Metals, PHCs, BTEX, PAHs & VOCs	Soil
		28. Gasoline and Associated Products Storage in Fixed Tanks	Off-Site		Soil
APEC 6	Adjacent to the 6710 Lundy's Lane property	37. Operation of Dry-Cleaning Equipment (where chemicals are used)	Off-Site	VOCs	Soil
APEC 7	Adjacent to the 6738-6758 Unit 1 Lundy's Lane property	39. Paint Manufacturing, Processing and Bulk Storage	Off-Site	Metals, PHCs, BTEX & VOCs	Soil
APEC 8	Adjacent to the 6644 Lundy's Lane property	28. Gasoline and Associated Products Storage in Fixed Tanks	Off-Site	Metals, PHCs, BTEX, & VOCs	Soil

Area of Potential Environmental Concern	Location of APEC on Phase One Property	Potentially Contaminating Activity	Locations of PCA	Contaminants of Potential Concern	Media Potentially Impacted
APEC 9	Adjacent to the 6555 Lundy's Lane property	28. Gasoline and Associated Products Storage in Fixed Tanks	Off-Site	Metals, PHCs, BTEX, & VOCs	Soil
		Other. Ontario Spill	Off-Site	Metals, PHCs, BTEX, & VOCs	Soil
APEC 10	Adjacent to the 6499 Lundy's Lane property	28. Gasoline and Associated Products Storage in Fixed Tanks	Off-Site	Metals, PHCs, BTEX, PAHs & VOCs	Soil
		10. Commercial Autobody Shops	Off-Site		Soil
APEC 11	Adjacent to the 6488 Lundy's Lane property	37. Operation of Dry-Cleaning Equipment (where chemicals are used)	Off-Site	VOCs	Soil
Notes: PHCs = Petroleum Hydrocarbons, VOCs = Volatile Organic Compounds BTEX = Benzene, Toluene, Ethylbenzene and Xylene					

(iv) Phase One Conceptual Site Model: SOIL-MAT ENGINEERS' complete Assessment of Past Uses Conceptual Site Model is included in Appendix 'A' for reference.

8.0 CONCLUSIONS

The Assessment of Past Use conducted for this property consisted of a historical records review, interviews and a reconnaissance of the subject lands.

At the time of this Report, the Project Lands were comprised of an asphaltic-concrete surfaced municipal roadway, Lundy's Lane, extending approximately 1.73 kilometers between Regional Road 98 [Montrose Road] and Highland Avenue in Niagara Falls, Ontario. The lands in the general vicinity of the Project Lands were comprised of a mixture of commercial, community and residential use lands.

The research completed during the Assessment of Past Uses revealed one PCA on the Project Lands. Specifically, information extrapolated from historical aerial photographs, including an aerial photograph from 1968 revealed the potential fill material present as a a result of historical widening, improvements and/or infrastructure installations along the existing roadways that comprise the Project Lands.

In addition, fourteen [14] PCAs were identified within the Study Area that are considered likely to cause an APEC on the Project Lands including the following:

- The reconnaissance of the site revealed one RFO located at 6644 Lundy's Lane and three [3] commercial autobody repair facilities located at 6910, 6499, and 7009 Lundy's Lane;
- The review of the historical fire insurance plans, including plans from 1951 and 1965 revealed three [3] historic auto service facilities located at 6499, 6555, and 7600 Lundy's Lane, and two historic dry cleaner operations located at 6488 and 6710 Lundy's Lane;
- The review of the Vernon City Directories series revealed an autobody repair facility at 7009 Lundy's Lane, four [4] historic service stations located at 6910, 6499, 6555, and 7600 Lundy's Lane, and two [2] dry cleaners located at 6710 and 7279 Lundy's Lane;
- A search of the MOE's Brownfields Environmental Site Registry revealed a Phase One, Phase Two, Record of Site Condition and a Risk Assessment filed on December 21, 2012 for the property located at 6499 Lundy's Lane. The RSC filing indicated soil and groundwater with elevated petroleum hydrocarbons, benzene, toluene, ethylbenzene and xylenes and volatile organic compounds remained in place on the property as of the date of filing;
- Information gathered from T.S.S.A records revealed four [4] properties with registered underground fuel storage tanks including 6555, 6499 and 6644 Lundy's Lane, and;
- Information gathered from an EcoLog ERIS Database search revealed waste generators at 6738-6758 [unit 1], 6644, and 6499 Lundy's Lane. In addition, a Certificate of Property Use was listed for 6499, and an Ontario spill was recorded in association with 'Sunoco Service Station', inferred to be located at 6555 Lundy's Lane.

The noted PCAs and results APECs for the project site are illustrated in the attached Drawing Nos. 1 and 1A.

The lands in the Study Area are comprised of a mixture of commercial, community and residential lands.

Based on the findings of the Assessment of Past Uses, a potentially contaminating activities were identified on the Project Lands that are considered likely to cause an area of potential environmental concern on the Project Lands. As such, it is the opinion of SOIL-MAT ENGINEERS & CONSULTANTS LTD. that a sampling and analysis plan is required for the Project Lands. Specifically, the plan is required to assess the concentration and distribution of contaminants of potential concern in the soil medium in areas scheduled to be excavated from the Project Lands. Based on the identified PCAs the relevant COPCs would include Metals and Inorganics [M/I], PHC and VOC.

9.0 REPORT LIMITATIONS

Achieving the objectives that are stated in this report has required SOIL-MAT ENGINEERS to derive conclusions based upon the best and most recent information currently available to SOIL-MAT ENGINEERS. No investigative method can completely eliminate the possibility of obtaining partially imprecise information. SOIL-MAT ENGINEERS has expressed professional judgement in gathering and analyzing the information obtained and in the formulation of its conclusions.

Information in this report was obtained from sources deemed to be reliable, however, no representation or warranty is made as to the accuracy of this information. To the best of SOIL-MAT ENGINEERS' knowledge, the information gathered from outside sources contained in this report on which SOIL-MAT ENGINEERS has formulated its opinions and conclusions, are both true and correct. SOIL-MAT ENGINEERS assumes no responsibility for any misrepresentation of facts gathered from outside sources.

This report was prepared to assess and document evidence of potential environmental contamination, and not to judge the acceptability of the risks associated with such environmental contamination. Much of the information gathered for this report is only accurate at the time of collection and a change in the Site conditions may alter the interpretation of SOIL-MAT ENGINEERS' findings. Furthermore, the reader should note that the Site reconnaissance described in this report was an environmental assessment of the Site, not a regulatory compliance or an environmental audit of the Site.

SOIL-MAT ENGINEERS & CONSULTANTS LTD. prepared this Report for the account of the URBAN & ENVIRONMENTAL MANAGEMENT INC. The material in it reflects SOIL-MAT ENGINEERS' best judgement in light of the information available to it at the time of preparation. Any use which a third party makes of this report, or any reliance on or decisions to be made based on it, are the responsibility of such third parties. SOIL-MAT ENGINEERS accepts no responsibility for damages, if any suffered by any third party as a result of decisions made or actions based on this report.

We trust that this Assessment of Past Uses is satisfactory for your purposes. Please feel free to contact the undersigned if you have any questions.

Sincerely,
SOIL-MAT ENGINEERS & CONSULTANTS LTD.

Peter Markesic
Environmental Project Manager

Keith Gleadall, B.A., EA Dipl.
Environmental Manager

Ian Shaw, P.Eng., QP_{ESA}
Review Engineer

LICENSED PROFESSIONAL ENGINEER
June 7/22
I. D. SHAW
100042315
PROVINCE OF ONTARIO

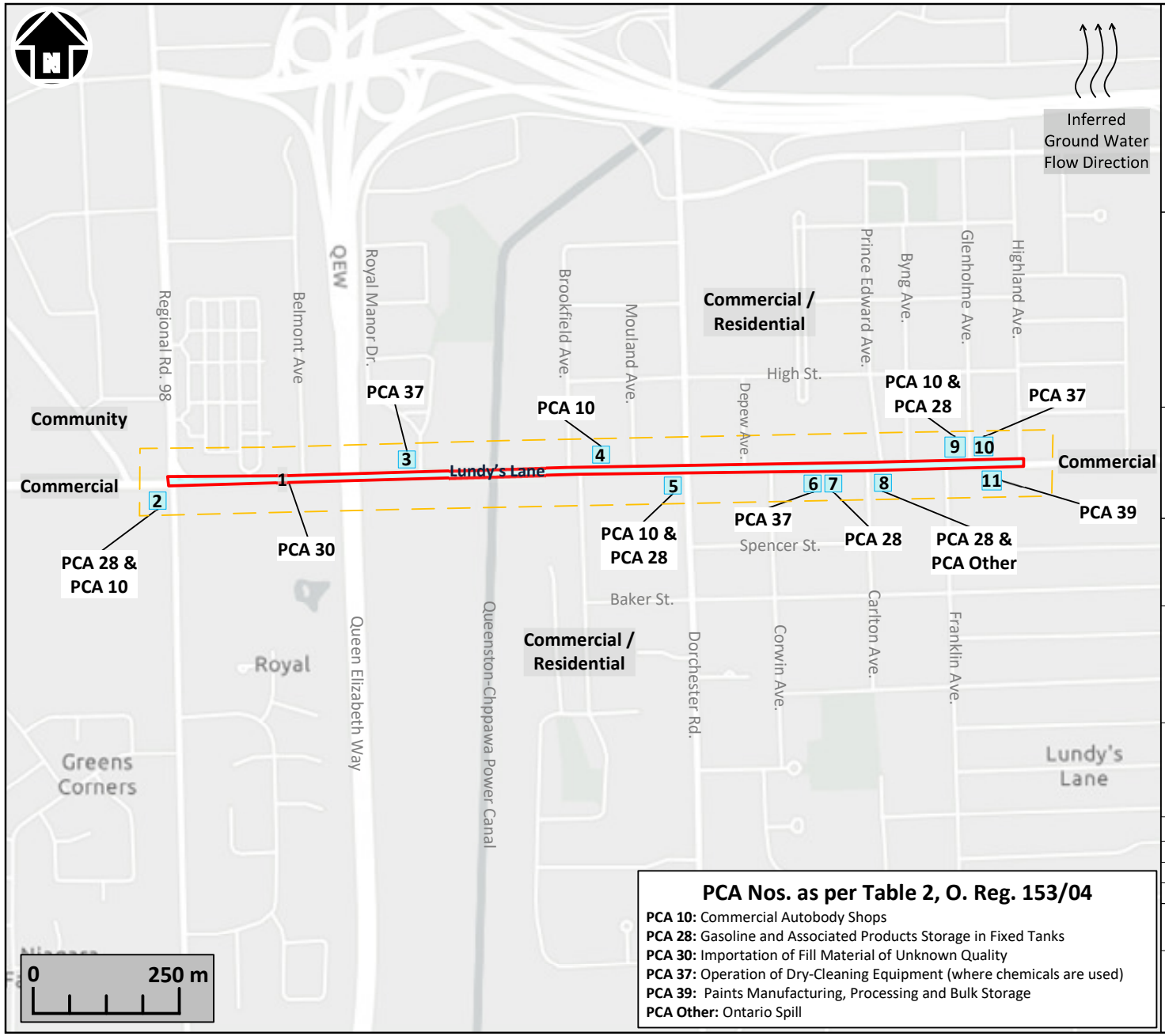
Distribution: URBAN & ENVIRONMENTAL MANAGEMENT INC. [1, pdf by email]

Enclosures:

Appendix 'A'	Assessment of Past Uses Conceptual Site Model
Appendix 'B'	Title Search Documents
Appendix 'C'	MOE, T.S.S.A. Correspondence
Appendix 'D'	EcoLog ERIS Report
Appendix 'E'	Aerial Photographs
Appendix 'F'	Topographic Maps
Appendix 'G	Summary Table of PCAs
Appendix 'H'	Qualifications of Assessors

Appendix 'A'

1. Assessment of Past Uses Conceptual Site Model



PCA Nos. as per Table 2, O. Reg. 153/04

PCA 10: Commercial Autobody Shops
PCA 28: Gasoline and Associated Products Storage in Fixed Tanks
PCA 30: Importation of Fill Material of Unknown Quality
PCA 37: Operation of Dry-Cleaning Equipment (where chemicals are used)
PCA 39: Paints Manufacturing, Processing and Bulk Storage
PCA Other: Ontario Spill

LEGEND

Project Area

Study Area

PCA resulting in APEC

NOTES:

1. This map should be read in conjunction with Soil-Mat Engineers and Consultants Ltd. Report No.: SM 301760-E
2. Base map retrieved from: ArcGIS Online

Soil-Mat
Engineers & Consultants Ltd.

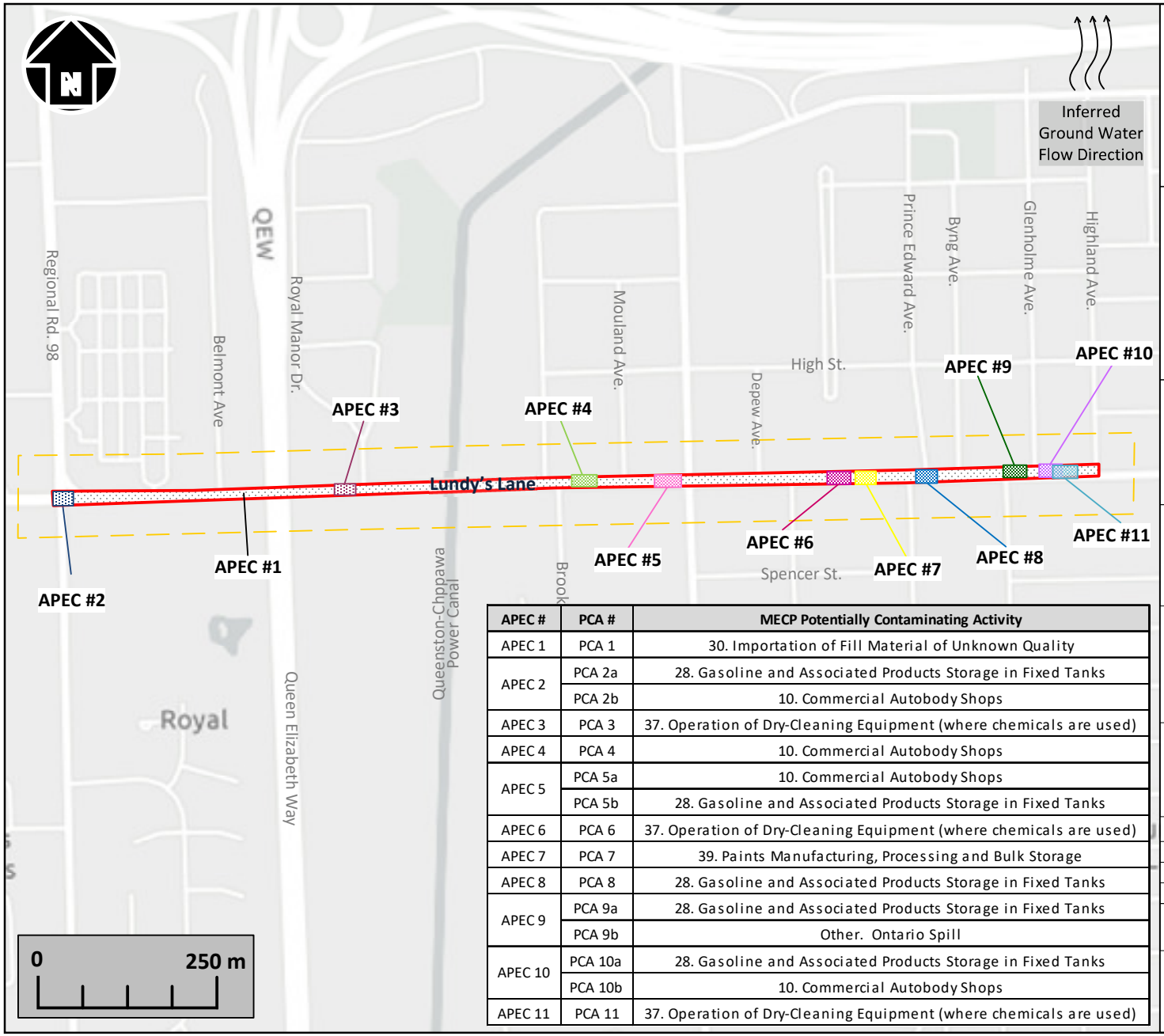
CLIENT
URBAN & ENVIRONMENTAL MANAGEMENT

PROJECT TITLE
Assessment of Past Uses
Road Reconstruction - Lundy's Lane
Niagara Falls, Ontario

DRAWING TITLE
Assessment of Past Uses
Conceptual Site Model

PROJECT No.	SM 301760-E
DATE	November 2021
CHECKED	RK
DRAWN	MT
FILE NAME	SM 301760-E Assessment of Past Uses CSM.vsdx

DRAWING No. 1



APEC #	PCA #	MECP Potentially Contaminating Activity
APEC 1	PCA 1	30. Importation of Fill Material of Unknown Quality
APEC 2	PCA 2a	28. Gasoline and Associated Products Storage in Fixed Tanks
	PCA 2b	10. Commercial Autobody Shops
APEC 3	PCA 3	37. Operation of Dry-Cleaning Equipment (where chemicals are used)
APEC 4	PCA 4	10. Commercial Autobody Shops
APEC 5	PCA 5a	10. Commercial Autobody Shops
	PCA 5b	28. Gasoline and Associated Products Storage in Fixed Tanks
APEC 6	PCA 6	37. Operation of Dry-Cleaning Equipment (where chemicals are used)
APEC 7	PCA 7	39. Paints Manufacturing, Processing and Bulk Storage
APEC 8	PCA 8	28. Gasoline and Associated Products Storage in Fixed Tanks
APEC 9	PCA 9a	28. Gasoline and Associated Products Storage in Fixed Tanks
	PCA 9b	Other. Ontario Spill
APEC 10	PCA 10a	28. Gasoline and Associated Products Storage in Fixed Tanks
	PCA 10b	10. Commercial Autobody Shops
APEC 11	PCA 11	37. Operation of Dry-Cleaning Equipment (where chemicals are used)

LEGEND

Project Area

Study Area

NOTES:

1. This map should be read in conjunction with Soil-Mat Engineers and Consultants Ltd. Report No.: SM 301760-E
2. Base map retrieved from: ArcGIS Online 2021 ©

Soil-Mat
Engineers & Consultants Ltd.

CLIENT
URBAN & ENVIRONMENTAL MANAGEMENT

PROJECT TITLE
Assessment of Past Uses
Road Reconstruction - Lundy's Lane
Niagara Falls, Ontario

DRAWING TITLE
Illustration of APECs

PROJECT No.	SM 301760-E
DATE	November 2021
CHECKED	RK
DRAWN	MT
FILE NAME	SM 301760-E Assessment of Past Uses CSM.vsdx

DRAWING No. 1A

Conceptual Site Model [CSM] Notes

SUPPORTING INFORMATION TO SATISFY TABLE 1, SCHEDULE D, PART VI OF THE RSC REGULATION

Based on the findings of the Assessment of Past Uses, a PCA was identified in the Project Area, including the following:

Table of PCAs

PCA ID	*PCA No. and Description*	*Location of PCA*	*Rationale*
PCA A	PCA No. 30: Importation of Fill Material of Unknown Quality	On-Site	• Potential for the importation of fill material of unknown quality during historical widening/improvements and infrastructure installations along the roadway

In addition, fourteen [14] off-site PCAs were identified within the Assessment of Past Uses Study Area, that are considered likely to cause an APEC on the Site. A complete summary of all the identified off-site PCAs and their associated APECs on the Site are summarised in table format below:

PCA #	PCA Location	MECP Potentially Contaminating Activity	Basis for PCA	Contaminants of Potential Concern	Media Potentially Impacted	APEC #	Rational
PCA 1	On-Site	30. Importation of Fill Material of Unknown Quality	• Potential for the importation of fill material of unknown quality during historical widening/improvements and infrastructure installations along the roadway	Metals, PHCs, & BTEX	Soil	APEC 1	On-Site
PCA 2a	Off-Site: 7600 Lundy's Lane	28. Gasoline and Associated Products Storage in Fixed Tanks	• The review of the Vernon's City Directory series and a fire insurance plan from 1965 revealed this property was formerly occupied by an	Metals, PHCs, BTEX, PAHs & VOCs	Soil	APEC 2	PCA located on adjoining property to the south

PCA #	PCA Location	MECP Potentially Contaminating Activity	Basis for PCA	Contaminants of Potential Concern	Media Potentially Impacted	APEC #	Rational
PCA 2b		10. Commercial Autobody Shops	automotive service station [inferred to be an automotive repair facility] with an UST	Metals, PHCs, BTEX, & VOCs	Soil		
PCA 3	Off-Site: 7279 Lundy's Lane	37. Operation of Dry-Cleaning Equipment (where chemicals are used)	• The review of the Vernon City Directories series revealed a dry cleaner formerly operated on this property	VOCs	Soil	APEC 3	PCA located on adjoining property to the north
PCA 4	Off-Site: 7009 Lundy's Lane	10. Commercial Autobody Shops	• The review of the Vernon City Directories series and information recorded during the reconnaissance of the Site revealed a current automotive repair facility in operation on this property.	Metals, PHCs, BTEX, PAHs & VOCs	Soil	APEC 4	PCA located on adjoining property to the north
PCA 5a	Off-Site: 6910 Lundy's Lane	10. Commercial Autobody Shops	• Observations during the site reconnaissance revealed a current automotive repair facility in operation on this property.	Metals, PHCs, BTEX, PAHs & VOCs	Soil	APEC 5	PCA located on adjoining property to the south
PCA 5b		28. Gasoline and Associated Products Storage in Fixed Tanks	• The review of the Vernon City Directories series revealed a former service station [inferred to be an RFO] historically operated on this property.	Metals, PHCs, BTEX, & VOCs	Soil		
PCA 6	Off-Site: 6710 Lundy's Lane	37. Operation of Dry-Cleaning Equipment (where chemicals are used)	• The review of the Vernon's City Directory series and a fire insurance plan from 1965 revealed a dry cleaner formerly operated on this property	VOCs	Soil	APEC 6	PCA located on adjoining property to the south

PCA #	PCA Location	MECP Potentially Contaminating Activity	Basis for PCA	Contaminants of Potential Concern	Media Potentially Impacted	APEC #	Rational
PCA 7	Off-Site: 6738-6758 Unit 1	39. Paints Manufacturing, Processing and Bulk Storage	• The EcoLog ERIS report revealed a retail paint company formerly operated on this property	Metals, PHCs, BTEX & VOCs	Soil	APEC 7	PCA located on adjoining property to the south
PCA 8	Off-Site: 6644 Lundy's Lane	28. Gasoline and Associated Products Storage in Fixed Tanks	• Observations during the site reconnaissance revealed a gas station [a RFO] is located on this property.	Metals, PHCs, BTEX, & VOCs	Soil	APEC 8	PCA located on adjoining property to the south
PCA 9a	Off-Site: 6555 Lundy's Lane	28. Gasoline and Associated Products Storage in Fixed Tanks	• The review of the Vernon City Directories series, fire insurance plans from 1951 and 1965 and the T.S.S.A. database search revealed a gasoline service station [an RFO] formerly operated on this property.	Metals, PHCs, BTEX, & VOCs	Soil	APEC 9	PCA located on adjoining property to the north
PCA 9b		Other. Ontario Spill	• The EcoLog ERIS report revealed a 200-litre gasoline spill occurred on this property		Soil		
PCA 10a	Off-Site: 6499 Lundy's Lane	28. Gasoline and Associated Products Storage in Fixed Tanks	• The review of the Vernon City Directories series, a fire insurance plan from 1965, the EcoLog ERIS report and the Brownfield Site Registry revealed a gasoline service station formerly operated on this property. In addition, it is noted that there is residual VOC and/or PHC impacts in soil and groundwater as documented in the RSC filed for this property.	Metals, PHCs, BTEX, PAHs & VOCs	Soil	APEC 10	PCA located on adjoining property to the north

PCA #	PCA Location	MECP Potentially Contaminating Activity	Basis for PCA	Contaminants of Potential Concern	Media Potentially Impacted	APEC #	Rational
PCA 10b		10. Commercial Autobody Shops	• Observations during the Site reconnaissance revealed an automotive repair facility is currently in operation on the property.		Soil		
PCA 11	Off-Site: 6488 Lundy's Lane	37. Operation of Dry-Cleaning Equipment (where chemicals are used)	• A fire insurance plan from 1965 revealed a dry cleaner formerly operated on this property.	VOCs	Soil	APEC 11	PCA located on adjoining property to the south

The Project Area and off-site PCAs within the Assessment of Past Uses Study Area are illustrated on the attached Drawing No.: 1. The on-site PCAs and APEC associated with the on-site PCA is illustrated on the attached Drawing No.: 1A.

1. With the exception of the Queenston-Chippawa Power Canal running underneath the western portion of the Site, there are no other water bodies in whole or in part on the Project Lands or within the Assessment of Past Uses Study Area. In addition, no areas of natural significance were identified on the Project Lands or within the Assessment of Past Uses Study Area. Regional groundwater flow for the western portion of the Project Lands is expected to the northeast towards the Queenston-Chippawa Power Canal. Regional groundwater flow for the eastern portion of the Project Lands is expected to the northwest towards the Queenston-Chippawa Power Canal. The Canal flows to the north toward the Sir Adam Beck Generating Station and empties in to the Niagara River and ultimately, Lake Ontario.

2. The reconnaissance of the Site did not reveal any obvious visual evidence of a suspected potable groundwater well, monitoring well or cistern. A review of the MOE's water well records did not reveal any potable and/or groundwater monitoring wells on the Project Lands. However, the review did reveal [4] four groundwater monitoring wells within the Study Area. The wells are reportedly located approximately 20 to 50 metres from the Project Lands and terminate at depths between 2.1 to 24.4 metres below ground surface. In addition, the review of the MOE's water well records did not reveal any potable wells on the lands located within the Study Area.

3. There are buried utilities, water and telecommunication services, etc. located within the Project Lands. However, the depth and location of these services is not anticipated to have affected the distribution of contaminants of potential concern within the Project Lands.

4. A review of the Ministry of Northern Development and Mine's "Quaternary Geology of the Niagara Area, Southern Ontario Sheet Map M2496" and the "Paleozoic Geology of the Niagara Area, Southern Ontario Sheet Map M2344" revealed the Site to be underlain by glaciolacustrine deposits of nearshore and deltaic sand and silt, in turn underlain by Lockport formation Dolostone bedrock. The approximate depth to bedrock is greater than 16 to 20 metres based on information ferreted out from water well records and geotechnical boreholes in the vicinity of the Site.

5. The validity of the CSM may be affected if the future use of the property diverts from the current understanding of the proposed project.

6. Based on the results of the Assessment of Past Uses, it is the opinion of SOIL-MAT ENGINEERS & CONSULTANTS LTD. that a sampling and analysis plan is required to determine the concentration and distribution of contaminants in soil to be excavated from the Project Lands.

Appendix 'B'

1. Title Search Documents

PROPERTY DESCRIPTION: PT TWP LT 132 STAMFORD AS IN AA96852; PT 1 59R10339; PT 7 59R2982; PT OF PT 1 59R594; AS IN RO180983 EXCEPT THAT PORTION LYING W OF THE SLY PRODUCTION OF THE SW CORNER OF PT 1 59R594; PT TWP LT 141 STAMFORD AS IN RO503795 (29THLY, 30THLY, 31STLY, 32NDLY) AA88486; PT 1 59R1248; PT RDAL BTN LTS 132 & 133 STAM, BEING LUNDY'S LANE (AKA REGIONAL RD 51) LYING BTN MONTROSE RD (AKA REGIONAL RD 98) & Q.E.W.; PT 1 59R10938; NIAGARA FALLS

PROPERTY REMARKS:

ESTATE/QUALIFIER:
FEE SIMPLE
LT CONVERSION QUALIFIED

RECENTLY:
CONSOLIDATION FROM 64418-0086, 64360-0366

PIN CREATION DATE:
2000/07/10

OWNERS' NAMES
THE REGIONAL MUNICIPALITY OF NIAGARA

CAPACITY SHARE
BENO

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
EFFECTIVE 2000/07/29 THE NOTATION OF THE "BLOCK IMPLEMENTATION DATE" OF 1999/06/21 ON THIS PIN						
WAS REPLACED WITH THE "PIN CREATION DATE" OF 2000/07/10						
*** PRINTOUT INCLUDES ALL DOCUMENT TYPES AND DELETED INSTRUMENTS SINCE 2000/07/10 ***						
***SUBJECT, ON FIRST REGISTRATION UNDER THE LAND TITLES ACT, TO:*						
*** SUBSECTION 44(1) OF THE LAND TITLES ACT, EXCEPT PARAGRAPH 11, PARAGRAPH 14, PROVINCIAL SUCCESSION DUTIES **						
*** AND ESCHEATS OR FORFEITURE TO THE CROWN.*						
*** THE RIGHTS OF ANY PERSON WHO WOULD, BUT FOR THE LAND TITLES ACT, BE ENTITLED TO THE LAND OR ANY PART OF*						
*** IT THROUGH LENGTH OF ADVERSE POSSESSION, PRESCRIPTION, MISDESCRIPTION OR BOUNDARIES SETTLED BY*						
*** CONVENTION.*						
*** ANY LEASE TO WHICH THE SUBSECTION 70(2) OF THE REGISTRY ACT APPLIES.*						
***DATE OF CONVERSION TO LAND TITLES: 1999/06/21 ***						
AA62067	1961/10/23	BYLAW				C
AA88486	1963/05/06	TRANSFER	$1		THE CORPORATION OF THE CITY OF NIAGARA FALLS	C
AA96852	1963/08/23	ORDER IN COUNCIL			THE CORPORATION OF THE CITY OF NIAGARA FALLS	C
AA97596	1963/09/06	BYLAW PUB HGHWY				C
RO180142	1973/01/24	TRANSFER	$2		THE REGIONAL MUNICIPALITY OF NIAGARA	C
RO180983	1973/02/07	BYLAW PUB HGHWY				C
59R594	1973/09/21	PLAN REFERENCE				C

NOTE: ADJOINING PROPERTIES SHOULD BE INVESTIGATED TO ASCERTAIN DESCRIPTIVE INCONSISTENCIES, IF ANY, WITH DESCRIPTION REPRESENTED FOR THIS PROPERTY.
NOTE: ENSURE THAT YOUR PRINTOUT STATES THE TOTAL NUMBER OF PAGES AND THAT YOU HAVE PICKED THEM ALL UP.

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
RO198990	1973/10/19	TRANSFER	$2		THE REGIONAL MUNICIPALITY OF NIAGARA	C
RO203991	1974/01/03	BYLAW PUB HGHWY				C
59R1248	1975/07/17	PLAN REFERENCE				C
RO340484	1979/08/27	TRANSFER		HER MAJESTY THE QUEEN	THE REGIONAL MUNICIPALITY OF NIAGARA	C
	REMARKS: ENTERED 00-FEB-15 AMB					
RO342553	1979/09/27	BYLAW PUB HGHWY				C
RO503795	1987/07/06	QUIT CLAIM TRNSFR	$1		THE REGIONAL MUNICIPALITY OF NIAGARA	C
RO503798	1987/07/06	BYLAW PUB HGHWY				C
59R10339	1998/06/25	PLAN REFERENCE				C
RO749953	1998/07/22	TRANSFER	$1		THE REGIONAL MUNICIPALITY OF NIAGARA	C
RO752018	1998/08/28	BYLAW PUB HGHWY				C
59R10919	1999/12/13	PLAN REFERENCE				C
59R10938	2000/01/06	PLAN REFERENCE				C
LT152918	2000/03/08	NOTICE AGREEMENT		VOMMERO ENTERPRISES LIMITED	THE CORPORATION OF THE CITY OF NIAGARA FALLS	C
	REMARKS: SITE PLAN AGREEMENT					
LT154685	2000/04/06	TRANSFER		VOMMERO ENTERPRISES LIMITED	THE REGIONAL MUNICIPALITY OF NIAGARA	C
	REMARKS: PT 1 ON 59R10938					
LT155706	2000/04/27	BYLAW		THE REGIONAL MUNICIPALITY OF NIAGARA		C
	REMARKS: TO ESTABLISH PART OF STAMFORD LOT 141 IN CITY OF NIAGARA FALLS AS PARTOF REGIONAL ROAD NO. 20 (LUNDY'S LANE)					

NOTE: ADJOINING PROPERTIES SHOULD BE INVESTIGATED TO ASCERTAIN DESCRIPTIVE INCONSISTENCIES, IF ANY, WITH DESCRIPTION REPRESENTED FOR THIS PROPERTY.
NOTE: ENSURE THAT YOUR PRINTOUT STATES THE TOTAL NUMBER OF PAGES AND THAT YOU HAVE PICKED THEM ALL UP.

Appendix 'C'

1. MOE Database Search Request
2. T.S.S.A Correspondence

Ontario

Ministry of the Environment, Conservation and Parks

Freedom of Information Request for Property Information

Instructions

Use this form to:

- submit and pay for a new FOI request for access to records/information about a property
- pay for a deposit or a final fee on an existing FOI request

Fields marked with an asterisk (*) are mandatory.

Are you: *

☑ Submitting a new FOI Request for Property Information

☐ Paying a deposit or final fee for an existing FOI Request for Property Information

Section 1 – Description of Records Requested

Time Period for Records Requested

From (yyyy/mm/dd) * 1986/12/30

To (yyyy/mm/dd) * 2021/12/02

Type of Record(s) *

☐ All environmental records relating to the identified property/site exclusive of Environmental Approvals and Registrations

☑ Environmental Approvals and Registrations (e.g. Environmental Compliance Approvals; Certificate of Approval; Renewable Energy Approvals; Environmental Activity and Sector Registry Registrations)

Select only if you are seeking access to an Approval or Registration that is not publicly available or if you are also seeking supporting documents relating to the Approval or Registration.

Operator and vendor Pesticide Licenses from September 4, 2018, final Approvals and Registrations are publicly available on the Access Environment website at:
https://www.accessenvironment.ene.gov.on.ca/AEWeb/ae/GoSearch.action?search=basic&lang=en.

Records of Site Condition (RSC) records are publicly available on the Brownfields Environmental Site Registry (BSER).

- RSC records between 2004 to June 30, 2011 are available at: https://www.lrcsde.lrc.gov.on.ca/besrWebPublic/generalSearch
- RSC records filed after July 2011 are available at: https://www.lrcsde.lrc.gov.on.ca/BFISWebPublic/pub/earchFiledRsc_search?request_locale=en

☐ Other Specific Document(s)

Type of Approval/Registration *

☑ Drinking Water Licenses

☐ No Supporting Documents ☑ All Supporting Documents ☐ Some Supporting Documents

☑ Pesticide Licenses

Only pesticide licenses post September 2018 are available. Prior to September 2018, only Pesticide license applications and supporting documentation is available

☐ No Supporting Documents ☑ All Supporting Documents ☐ Some Supporting Documents

☑ Permits to Take Water

☐ No Supporting Documents ☑ All Supporting Documents ☐ Some Supporting Documents

Water Source *

☑ Groundwater ☑ Surface Water

☐ Noise Vibrations Approvals/Registrations

☑ Air Emissions Approvals/Registrations

☐ No Supporting Documents ☑ All Supporting Documents ☐ Some Supporting Documents

☑ Water Approvals/Registrations - Ontario Water Resources Commission, treatment, ground level, standpipes & elevated storage, pumping stations (local & booster), mains

☐ No Supporting Documents ☑ All Supporting Documents ☐ Some Supporting Documents

☑ Sewage – Treatment, Stormwater, Storm, Leachate & Lieachate Treatment & Sewage pump stations, Sanitary

☐ No Supporting Documents ☑ All Supporting Documents ☐ Some Supporting Documents

☑ Waste Water - Industrial discharge

☐ No Supporting Documents ☑ All Supporting Documents ☐ Some Supporting Documents

☑ Waste Sites - Disposal, Landfill sites, Transfer stations, Processing sites, Incinerator sites

☐ No Supporting Documents ☑ All Supporting Documents ☐ Some Supporting Documents

☑ Waste Management Systems - haulers: sewage, non-hazardous & hazardous waste, mobile waste processing units, Polychlorinated Biphenyls (PCBs) storage, transfer or destruction, Waste Generator Systems)

☐ No Supporting Documents ☑ All Supporting Documents ☐ Some Supporting Documents

Company Name

☑ Waste Generator Registration - number/class

List any record(s) that should be excluded from the scope of your request (e.g. email correspondences; records originating from your organization/business; records already in your possession, prior year(s) annual reports for approvals)

Please provide any additional relevant information relating to your request. For example, does your request relate to any other ministry business? Please note that this information is being requested only in order to provide contextual information to the Access and Privacy Office and will not in any way affect or expedite the status of any related ministry business identified.

Section 2 – Requester Information

Last Name *	First Name *	Middle Initial
Tolton	Melissa	

Business/Organization Name (if applicable or indicate "N/A") *

Soil-Mat Engineers and Consultants

Project/Reference Number (if applicable)

SM-301760

Are you submitting this request on behalf of a client? *

☑ Yes ☐ No

Please upload an authorization/consent form from your client in Section 6 (Supporting Documentation)

Name of Client

Last Name * First Name *

Smith Lucas

Business/Organization Name (if applicable or indicate "N/A") *

Urban & Environmental Management Inc.

Mailing Address

Unit Number Street Number * Street Name *

130 Lancing Drive

PO Box City/Town * Province * Postal Code *

Hamilton ON L8W 3A1

Telephone Number * ext. Email Address *

905-318-7440 mtolton@soilmat.ca

Is there an alternate contact (e.g. office admin)? *

☐ Yes ☑ No

Section 3 – Current Property Address Information

Is the property a:

☐ Park ☐ Lake ☐ First Nation Band ☐ Wind Farm ☐ Federal Land ☐ Island ☐ Unsurveyed Land

Are you requesting information about multiple addresses? *

☑ Yes ☐ No

Please only submit a request with multiple addresses if the property is one site. To be considered one site, addresses must be adjacent to each other and owned by the same owner(s).

Do the multiple addresses belong to one site? *

☑ Yes ☐ No

Please submit a separate FOI request for each address.

Site Name

Lundy's Lane Road Reconstruction

Property Address

Address 1

Unit Number Street Number Street Name

NA Lundy's Lane 1.73km west of Highland Avenue

Full Lot Number Concession Geographic Township

City/Town/Village *

Niagara Falls

Closest Intersection

Address 2

Unit Number | Street Number | Street Name

NA | Lundy's Lane 1.73km east of Regional Road 98

Full Lot Number | Concession | Geographic Township

City/Town/Village *

Niagara Falls

Closest Intersection

Section 4 – Previous Property Address Information

Do you want the ministry to search all prior historical addresses for this property/site for the time period of the records requested? *

☐ Yes ☑ No

Section 5 – Owner Information

Please provide all present and previous property owner and/or tenant names for the search years requested.

Current Property Owner/Tenant

Address 1

NA Lundy's Lane 1.73km west of Highland Avenue
Niagara Falls

Owner Name: The Regional Municipality of Niagara

Date of Ownership (yyyy/mm/dd): 2000/04/06

Tenant Name:

Address 2

NA Lundy's Lane 1.73km east of Regional Road 98
Niagara Falls

Owner Name: The Regional Municipality of Niagara

Date of Ownership (yyyy/mm/dd): 2000/04/06

Tenant Name:

Section 6 – Supporting Documents

Please attach an authorization/consent form.

Please upload any documents (e.g. Maps) that are relevant to your FOI request.

The total size of all attachments must not be more than 8 MB.

1. File Name

Project Lands.PNG

Total File Size

0.6 MB

Payment confirmation number: 22392667

Peter Markesic

From: Public Information Services <publicinformationservices@tssa.org>
Sent: Friday, November 26, 2021 3:28 PM
To: Melissa Tolton
Subject: RE: Fuel Tank Inquiry for Properties in Niagara Falls

Please refrain from sending documents to head office and only submit your requests electronically via email along with credit card payment. We are all working remotely and mailing in applications with cheques will lengthen the overall processing time.

RECORD FOUND

Hello,

Thank you for your request for confirmation of public information.

- We confirm that there are records in our database of fuel storage tanks at the subject addresses.

INSTANCE NUMBER	ADDRESS	CITY	PROVINCE	POSTAL CODE	STATUS	FACILITY/DEVICE
10038033	6555 LUNDY'S LANE	NIAGARA FALLS	ON	L2G 1V1	EXPIRED	FS GASOLINE STATION - FULL SERVE
10875021	6555 LUNDY'S LANE	NIAGARA FALLS	ON	L2G 1V1	EXPIRED	FS LIQUID FUEL TANK
11152963	6555 LUNDY'S LANE	NIAGARA FALLS	ON	L2G 1V1	EXPIRED	FS LIQUID FUEL TANK
11152985	6555 LUNDY'S LANE	NIAGARA FALLS	ON	L2G 1V1	EXPIRED	FS LIQUID FUEL TANK
11153007	6555 LUNDY'S LANE	NIAGARA FALLS	ON	L2G 1V1	EXPIRED	FS LIQUID FUEL TANK
11203995	6555 LUNDY'S LANE	NIAGARA FALLS	ON	L2G 1V1	EXPIRED	FS LIQUID FUEL TANK
11204011	6555 LUNDY'S LANE	NIAGARA FALLS	ON	L2G 1V1	EXPIRED	FS LIQUID FUEL TANK
11204031	6555 LUNDY'S LANE	NIAGARA FALLS	ON	L2G 1V1	EXPIRED	FS LIQUID FUEL TANK
11204050	6555 LUNDY'S LANE	NIAGARA FALLS	ON	L2G 1V1	EXPIRED	FS LIQUID FUEL TANK
9523604	6555 LUNDY'S LANE	NIAGARA FALLS	ON	L2G 1V1	EXPIRED	FS GASOLINE STATION - SELF SERVE

For a further search in our archives please complete our release of public information form found at https://www.tssa.org/en/about-tssa/release-of-public-information.aspx?_mid_=392 and email the completed form to publicinformationservices@tssa.org along with a fee of $56.50 (including HST) per location. The fee is payable with credit card (Visa or MasterCard).

Although TSSA believes the information provided pursuant to your request is accurate, please note that TSSA does not warrant this information in any way whatsoever.

Kind regards,

Mariah

Public Information Agent
Facilities and Business Services
345 Carlingview Drive
Toronto, Ontario M9W 6N9
Tel: +1-416-734-6222 | Fax: +1-416-734-3568 | E-Mail: publicinformationservices@tssa.org
www.tssa.org

From: Melissa Tolton <mtolton@soilmat.ca>

Sent: November 26, 2021 10:58 AM
To: Public Information Services <publicinformationservices@tssa.org>
Subject: Fuel Tank Inquiry for Properties in Niagara Falls

[CAUTION]: This email originated outside the organisation.
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Good Morning,

I am looking for any records of fuel storage tanks at the following addresses in Niagara Falls, Ontario;

- 6555 Lundy's Lane
- 7600 Lundy's Lane
- 3600 Lundy's Lane
- 2941 Lundy's Lane

Happy Friday

MELISSA TOLTON, B.SC.
SOIL-MAT ENGINEERS & CONSULTANTS LTD.
M: 289.230.7716 www.soil-mat.ca

HAMILTON: 130 Lancing Drive L8W 3A1 T: 905.318.7440 F: 905.318.7455
MILTON: PO Box 40012 Derry Heights PO L9T 7W4 T: 800.243.1922

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Peter Markesic

From: Public Information Services <publicinformationservices@tssa.org>
Sent: Friday, November 19, 2021 3:33 PM
To: Melissa Tolton
Subject: RE: Fuel Tank Inquiry Niagara Falls

Please refrain from sending documents to head office and only submit your requests electronically via email along with credit card payment. We are all working remotely and mailing in applications with cheques will lengthen the overall processing time.

RECORD FOUND

Hi Melissa,

Thank you for your request for confirmation of public information.

- We confirm that there are records in our database of fuel storage tanks at the subject addresses.

INSTANCE NUMBER	ADDRESS	CITY	PROVINCE	POSTAL CODE	STATUS	FACILITY/DEVICE
10874955	6499 LUNDY'S LANE	NIAGARA FALLS	ON	L2G 1T9	EXPIRED	FS PROPANE TANK
10874964	6499 LUNDY'S LANE	NIAGARA FALLS	ON	L2G 1T9	EXPIRED	FS LIQUID FUEL TANK
11397062	6499 LUNDY'S LANE	NIAGARA FALLS	ON	L2G 1T9	EXPIRED	FS LIQUID FUEL TANK
11397076	6499 LUNDY'S LANE	NIAGARA FALLS	ON	L2G 1T9	EXPIRED	FS LIQUID FUEL TANK
11397093	6499 LUNDY'S LANE	NIAGARA FALLS	ON	L2G 1T9	EXPIRED	FS LIQUID FUEL TANK
11397106	6499 LUNDY'S LANE	NIAGARA FALLS	ON	L2G 1T9	EXPIRED	FS LIQUID FUEL TANK
9651968	6499 LUNDY'S LANE	NIAGARA FALLS	ON	L2G 1T9	EXPIRED	FS PROPANE REFILL CNTR - CYLR FILL
9807263	6499 LUNDY'S LANE	NIAGARA FALLS	ON	L2G 1T9	EXPIRED	FS GASOLINE STATION - FULL SERVE

INSTANCE NUMBER	ADDRESS	CITY	PROVINCE	POSTAL CODE	STATUS	FACILITY/DEVICE
10875030	6644 LUNDY'S LANE	NIAGARA FALLS	ON	L2G 1V2	EXPIRED	FS LIQUID FUEL TANK
11457450	6644 LUNDY'S LANE	NIAGARA FALLS	ON	L2G 1V2	EXPIRED	FS LIQUID FUEL TANK
11457470	6644 LUNDY'S LANE	NIAGARA FALLS	ON	L2G 1V2	EXPIRED	FS LIQUID FUEL TANK
64878233	6644 LUNDY'S LANE	NIAGARA FALLS	ON	L2G 1V2	ACTIVE	FS LIQUID FUEL TANK
9735781	6644 LUNDY'S LANE	NIAGARA FALLS	ON	L2G 1V2	ACTIVE	FS GASOLINE STATION - FULL SERVE

INSTANCE NUMBER	ADDRESS	CITY	PROVINCE	POSTAL CODE	STATUS	FACILITY/DEVICE
64762619	6839 LUNDY'S LANE	NIAGARA FALLS	ON	L2G 1V7	ACTIVE	FS CYLINDER EXCHANGE

For a further search in our archives please complete our release of public information form found at https://www.tssa.org/en/about-tssa/release-of-public-information.aspx?_mid_=392 and email the completed form to publicinformationservices@tssa.org along with a fee of $56.50 (including HST) per location. The fee is payable with credit card (Visa or MasterCard).

Although TSSA believes the information provided pursuant to your request is accurate, please note that TSSA does not warrant this information in any way whatsoever.

Kind regards,

Mariah

Public Information Agent
Facilities and Business Services
345 Carlingview Drive
Toronto, Ontario M9W 6N9
Tel: +1-416-734-6222 | Fax: +1-416-734-3568 | E-Mail: publicinformationservices@tssa.org
www.tssa.org

From: Melissa Tolton <mtolton@soilmat.ca>

Sent: November 18, 2021 4:31 PM
To: Public Information Services <publicinformationservices@tssa.org>
Subject: Fuel Tank Inquiry Niagara Falls

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Hello,

I am looking for any records of fuel storage tanks located at the following addresses in Niagara Falls, Ontario:

- 6910 Lundy's Lane
- 6812 Lundy's Lane
- 6499 Lundy's Lane
- 6644 Lundy's Lane
- 7009 Lundy's Lane
- 6839 Lundy's Lane
- 7004 Lundy's Lane

Regards,

MELISSA TOLTON, B.SC.
SOIL-MAT ENGINEERS & CONSULTANTS LTD.
M: 289.230.7716 www.soil-mat.ca

HAMILTON: 130 Lancing Drive L8W 3A1 T: 905.318.7440 F: 905.318.7455
MILTON: PO Box 40012 Derry Heights PO L9T 7W4 T: 800.243.1922

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Appendix 'D'

1. Ecolog ERIS Report

DATABASE REPORT

Project Property:	*SM 301760 Lundy's Lane* *Lundy's Lane* *Niagara Falls ON*
Project No:	*301760*
Report Type:	*Quote - Custom-Build Your Own Report*
Order No:	*21112500066*
Requested by:	*Soil-Mat Engineers & Consultants Ltd.*
Date Completed:	*November 30, 2021*

Environmental Risk Information Services
A division of Glacier Media Inc.
1.866.517.5204 | info@erisinfo.com | erisinfo.com

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Executive Summary

Property Information:

Project Property:	*SM 301760 Lundy's Lane* *Lundy's Lane Niagara Falls ON*
Project No:	*301760*

Order Information:

Order No:	*21112500066*
Date Requested:	*November 25, 2021*
Requested by:	*Soil-Mat Engineers & Consultants Ltd.*
Report Type:	*Quote - Custom-Build Your Own Report*

Historical/Products:

Executive Summary: Report Summary

Database	Name	Searched	Project Property	Boundary to 0.05km	Total
AAGR	Abandoned Aggregate Inventory	Y	0	0	0
AGR	Aggregate Inventory	Y	0	0	0
AMIS	Abandoned Mine Information System	Y	0	0	0
ANDR	Anderson's Waste Disposal Sites	Y	0	0	0
AST	Aboveground Storage Tanks	Y	0	0	0
AUWR	Automobile Wrecking & Supplies	Y	0	0	0
BORE	Borehole	Y	7	6	13
CA	Certificates of Approval	Y	5	6	11
CDRY	Dry Cleaning Facilities	Y	0	0	0
CFOT	Commercial Fuel Oil Tanks	Y	0	0	0
CHEM	Chemical Manufacturers and Distributors	Y	0	0	0
CHM	Chemical Register	Y	0	0	0
CNG	Compressed Natural Gas Stations	Y	0	0	0
COAL	Inventory of Coal Gasification Plants and Coal Tar Sites	Y	0	0	0
CONV	Compliance and Convictions	Y	0	0	0
CPU	Certificates of Property Use	Y	0	1	1
DRL	Drill Hole Database	Y	0	0	0
DTNK	Delisted Fuel Tanks	Y	0	23	23
EASR	Environmental Activity and Sector Registry	Y	0	0	0
EBR	Environmental Registry	Y	0	1	1
ECA	Environmental Compliance Approval	Y	0	3	3
EEM	Environmental Effects Monitoring	Y	0	0	0
EHS	ERIS Historical Searches	Y	2	35	37
EIIS	Environmental Issues Inventory System	Y	0	0	0
EMHE	Emergency Management Historical Event	Y	0	0	0
EPAR	Environmental Penalty Annual Report	Y	0	0	0
EXP	List of Expired Fuels Safety Facilities	Y	0	0	0
FCON	Federal Convictions	Y	0	0	0
FCS	Contaminated Sites on Federal Land	Y	0	0	0
FOFT	Fisheries & Oceans Fuel Tanks	Y	0	0	0
FRST	Federal Identification Registry for Storage Tank Systems (FIRSTS)	Y	0	0	0
FST	Fuel Storage Tank	Y	2	18	20
FSTH	Fuel Storage Tank - Historic	Y	2	2	4
GEN	Ontario Regulation 347 Waste Generators Summary	Y	3	56	59
GHG	Greenhouse Gas Emissions from Large Facilities	Y	0	0	0
HINC	TSSA Historic Incidents	Y	0	1	1

Database	Name	Searched	Project Property	Boundary to 0.05km	Total
IAFT	Indian & Northern Affairs Fuel Tanks	Y	0	0	0
INC	Fuel Oil Spills and Leaks	Y	0	1	1
LIMO	Landfill Inventory Management Ontario	Y	0	0	0
MINE	Canadian Mine Locations	Y	0	0	0
MNR	Mineral Occurrences	Y	0	0	0
NATE	National Analysis of Trends in Emergencies System (NATES)	Y	0	0	0
NCPL	Non-Compliance Reports	Y	0	0	0
NDFT	National Defense & Canadian Forces Fuel Tanks	Y	0	0	0
NDSP	National Defense & Canadian Forces Spills	Y	0	0	0
NDWD	National Defence & Canadian Forces Waste Disposal Sites	Y	0	0	0
NEBI	National Energy Board Pipeline Incidents	Y	0	0	0
NEBP	National Energy Board Wells	Y	0	0	0
NEES	National Environmental Emergencies System (NEES)	Y	0	0	0
NPCB	National PCB Inventory	Y	0	0	0
NPRI	National Pollutant Release Inventory	Y	0	9	9
OGWE	Oil and Gas Wells	Y	0	0	0
OOGW	Ontario Oil and Gas Wells	Y	0	0	0
OPCB	Inventory of PCB Storage Sites	Y	0	0	0
ORD	Orders	Y	0	0	0
PAP	Canadian Pulp and Paper	Y	0	0	0
PCFT	Parks Canada Fuel Storage Tanks	Y	0	0	0
PES	Pesticide Register	Y	0	15	15
PINC	Pipeline Incidents	Y	0	1	1
PRT	Private and Retail Fuel Storage Tanks	Y	1	6	7
PTTW	Permit to Take Water	Y	0	0	0
REC	Ontario Regulation 347 Waste Receivers Summary	Y	0	0	0
RSC	Record of Site Condition	Y	0	1	1
RST	Retail Fuel Storage Tanks	Y	0	6	6
SCT	Scott's Manufacturing Directory	Y	0	13	13
SPL	Ontario Spills	Y	1	4	5
SRDS	Wastewater Discharger Registration Database	Y	0	0	0
TANK	Anderson's Storage Tanks	Y	0	0	0
TCFT	Transport Canada Fuel Storage Tanks	Y	0	0	0
VAR	Variances for Abandonment of Underground Storage Tanks	Y	0	0	0
WDS	Waste Disposal Sites - MOE CA Inventory	Y	0	0	0
WDSH	Waste Disposal Sites - MOE 1991 Historical Approval Inventory	Y	0	0	0
WWIS	Water Well Information System	Y	0	6	6
	Total:		23	214	237

Executive Summary: Site Report Summary - Project Property

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev diff (m)	Page Number
1	EHS		7034 Lundy's Lane Niagara Falls ON L2G 1V9	E/0.0	-0.30	53
5	BORE		ON	W/0.0	-3.77	53
6	BORE		ON	W/0.0	-4.47	54
7	BORE		ON	W/0.0	-15.04	56
8	SPL	NIAGARA, REGIONAL MUNICIPALITY	LUNDY'S LANE CROSSING OF THE HYDRO CANAL WATER SUPPLY SYSTEM NIAGARA FALLS CITY ON	W/0.0	-24.20	58
10	BORE		ON	W/0.0	-10.12	59
11	BORE		ON	W/0.0	-7.10	59
12	BORE		ON	W/0.0	-7.10	60

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev diff (m)	Page Number
19	CA	R.M. OF NIAGARA - LOTS 132 & 141	LUNDY'S LANE/ROYAL MANOR DR. NIAGARA FALLS CITY ON	W/0.0	0.34	61
19	CA	NIAGARA FALLS CITY	ROYAL MANOR DR/LUNDY'S LANE NIAGARA FALLS CITY ON	W/0.0	0.34	62
26	BORE		ON	W/0.0	-6.71	62
27	CA	JLA FACTORY OUTLET HOLDINGS LTD.	LUNDY'S LANE/RR #51/QEW, SWM NIAGARA FALLS ON	W/0.0	-6.95	63
34	CA	JLA FACTORY OUTLET HOLDINGS LTD.	LUNDY'S LANE/E.OF BELMONT AVE. NIAGARA FALLS ON	W/0.0	-5.20	63
38	EHS		6666 Lundys Lane Niagara Falls ON	E/0.0	4.00	63
40	PRT	CORP OF CITY OF NIAGARA FALLS	7467 LUNDYS LA NIAGARA FALLS ON L2H 1G9	W/0.0	-6.00	64
40	FSTH	CORP OF CITY OF NIAGARA FALLS	7467 LUNDYS LA NIAGARA FALLS ON	W/0.0	-6.00	64
40	FSTH	CORP OF CITY OF NIAGARA FALLS	7467 LUNDY'S LA NIAGARA FALLS ON	W/0.0	-6.00	64
40	FST	CITY OF NIAGARA FALLS	7467 LUNDY'S LANE NIAGARA FALLS L2H 1G9 ON CA ON	W/0.0	-6.00	65

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev diff (m)	Page Number
40	FST	CITY OF NIAGARA FALLS	7467 LUNDY'S LANE NIAGARA FALLS L2H 1G9 ON CA ON	W/0.0	-6.00	65
40	GEN	Niagara Falls, Corpof the City of	7467 Lundy's Lane Niagara Falls ON L2H 1G9	W/0.0	-6.00	66
40	GEN	Niagara Falls, Corpof the City of	7467 Lundy's Lane Niagara Falls ON L2H 1G9	W/0.0	-6.00	66
40	GEN	Niagara Falls, Corpof the City of	7467 Lundy's Lane Niagara Falls ON L2H 1G9	W/0.0	-6.00	66
45	CA	NIAGARA FALLS CITY	BYNG AVE/LUNDY'S LANE NIAGARA FALLS ON	E/0.0	4.31	67

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
2	BORE		ON	WSW/3.2	1.13	67
3	EHS		7009 Lundy's Lane Niagara Falls ON L2G 1W1	ENE/8.6	-0.65	68
3	EHS		7009 Lundy's Lane Niagara Falls ON L2G 1W1	ENE/8.6	-0.65	68
4	HINC		6981 LUNDY'S LANE NIAGARA FALLS ON L2G 1W1	ENE/16.9	-1.03	69
9	EHS		6941 Lundy's Lane Niagara Falls ON L2G 1V8	E/11.1	-0.48	69
13	BORE		ON	W/5.5	-6.93	69
14	EHS		6889 Lundy's Lane Niagara Falls ON L2G 1V7	E/20.4	0.56	70
14	EHS		6889 Lundys Lane Niagara Falls ON L2G1V7	E/20.4	0.56	71
15	BORE		ON	W/30.0	-0.80	71
16	CA	NIAGARA FALLS BREWING COMPANY	6863 LUNDY'S LANE NIAGARA FALLS CITY ON L2G 1V7	E/27.7	1.43	72
16	SCT	NIAGARA FALLS BREWING COMPANY	6863 LUNDY'S LANE NIAGARA FALLS ON L2G 1V7	E/27.7	1.43	72
16	SCT	NIAGARA FALLS BREWING COMPANY	6863 LUNDY'S LANE NIAGARA FALLS ON L2G 1V7	E/27.7	1.43	72

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
16	SCT	NIAGARA FALLS BREWING CO	6863 LUNDYS LANE NIAGARA FALLS ON L2G 1V7	E/27.7	1.43	73
16	SCT	Niagara Brewing Company	6863 Lundy's Lane Niagara Falls ON L2G 1V7	E/27.7	1.43	73
17	SCT	IDEAL DONUT	6864 LUNDY'S LANE NIAGARA FALLS ON L2G 1V6	E/40.1	3.64	73
18	SCT	CRIVELLER CANDIES CANADA	6853 LUNDY'S LANE NIAGARA FALLS ON L2G 1V7	E/24.8	1.67	73
18	SCT	Criveller Candies	6853 Lundy's Lane Niagara Falls ON L2G 1V7	E/24.8	1.67	74
20	EHS		7280 Lundy's Lane Niagara Falls ON L2G 1W2	W/38.9	0.98	74
20	EHS		7280 Lundy's Lane Niagara Falls ON L2G 1W2	W/38.9	0.98	74
20	EHS		7280 Lundy's Lane Niagara Falls ON L2G 1W2	W/38.9	0.98	75
20	EHS		7280 Lundy's Lane Niagara Falls ON L2G 1W2	W/38.9	0.98	75
20	EHS		7280 Lundy's Lane Niagara Falls ON L2G 1W2	W/38.9	0.98	75
20	EHS		7280 Lundy's Lane Niagara Falls ON L2G 1W2	W/38.9	0.98	75
20	EHS		7280 Lundy's Lane Niagara Falls ON L2G 1W2	W/38.9	0.98	75
20	EHS		7280 Lundy's Lane Niagara Falls ON L2G 1W2	W/38.9	0.98	76

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
21	EHS		7230-7280 Lundy's Lane Niagara Falls ON L2G 1W2	W/3.5	1.03	76
22	EHS		6800 & 6812 Lundy's Lane Niagara Falls ON L8R 3L2	E/29.2	4.05	76
22	EHS		6800-6812 Lundy's Lane Niagara Falls ON L2G 1V6	E/29.2	4.05	76
22	EBR	1137798 Ontario Limited	6812 Lundy's Lane Niagara Falls Regional Municipality of Niagara CITY OF NIAGARA FALLS ON	E/29.2	4.05	76
22	CA	1137798 Ontario Limited	6812 Lundy's Lane Niagara Falls ON L2G 1V6	E/29.2	4.05	77
22	GEN	PartSource 709	6812 Lundy's Lane Niagara Falls ON	E/29.2	4.05	77
22	ECA	1137798 Ontario Limited	6812 Lundy's Lane Niagara Falls ON L2G 1V6	E/29.2	4.05	77
22	GEN	Canadian Tire Corporation, limited	6812 Lundy's Lane Niagara Falls ON L2G 1V6	E/29.2	4.05	78
22	GEN	Canadian Tire Corporation, limited	6812 Lundy's Lane Niagara Falls ON L2G 1V6	E/29.2	4.05	78
22	GEN	Canadian Tire Corporation, limited	6812 Lundy's Lane Niagara Falls ON L2G 1V6	E/29.2	4.05	78
22	GEN	Canadian Tire Corporation, limited	6812 Lundy's Lane Niagara Falls ON L2G 1V6	E/29.2	4.05	79
23	EHS		7301 Lundy's Lane Niagara Falls ON L2H 2W9	W/49.3	-2.55	79

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23	EHS		7301 Lundy's Lane Niagara Falls ON L2H 2W9	W/49.3	-2.55	79
23	EHS		7301 Lundy's Lane Niagara Falls ON L2H 2W9	W/49.3	-2.55	80
24	SCT	KWIK KOPY PRINTING	6769 LUNDY'S LANE UNIT 4 NIAGARA FALLS ON L2G 1V4	E/44.5	2.76	80
24	GEN	KWIK-KOPY PRINTING	6769 LUNDY'S LANE NIAGARA FALLS ON L2G 1V4	E/44.5	2.76	80
24	GEN	KWIK-KOPY PRINTING 23-535	581814 ONTARIO LTD. 6769 LUNDY'S LANE NIAGARA FALLS ON L2G 1V4	E/44.5	2.76	80
24	GEN	KWIK KOPY PRINTING	6769 LUNDY'S LANE NIAGARA FALLS ON L2G 1V4	E/44.5	2.76	81
24	GEN	KWIK KOPY PRINTING	581814 ONTARIO LIMITED 6769 LUNDY'S LANE NIAGARA FALLS ON L2G 1V4	E/44.5	2.76	81
24	GEN	2049214 Ontario Inc.	6769 Lundy's Lane #4 Niagara Falls ON L2G 1V4	E/44.5	2.76	82
24	SCT	Kwik Kopy Design & Print	6769 Lundy's Lane Niagara Falls ON L2G 1V4	E/44.5	2.76	82
25	BORE		ON	W/0.9	-6.35	82
28	GEN	The Sherwin-Williams Company	6734 - 6758 Lundy's Lane Unit 1 Niagara Falls ON L2G 1V5	E/32.1	4.00	83
28	GEN	The Sherwin-Williams Company	6734 - 6758 Lundy's Lane Unit 1 Niagara Falls ON L2G 1V5	E/32.1	4.00	83
28	GEN	The Sherwin-Williams Company	6734 - 6758 Lundy's Lane Unit 1 Niagara Falls ON L2G 1V5	E/32.1	4.00	84

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
28	GEN	The Sherwin-Williams Company	6734 - 6758 Lundy's Lane Unit 1 Niagara Falls ON L2G 1V5	E/32.1	4.00	84
28	GEN	The Sherwin-Williams Company	6734 - 6758 Lundy's Lane Unit 1 Niagara Falls ON	E/32.1	4.00	85
28	GEN	The Sherwin-Williams Company	6734 - 6758 Lundy's Lane Unit 1 Niagara Falls ON L2G 1V5	E/32.1	4.00	85
28	GEN	The Sherwin-Williams Company	6734 - 6758 Lundy's Lane Unit 1 Niagara Falls ON L2G 1V5	E/32.1	4.00	85
28	GEN	The Sherwin-Williams Company	6734 - 6758 Lundy's Lane Unit 1 Niagara Falls ON L2G 1V5	E/32.1	4.00	86
28	GEN	The Sherwin-Williams Company	6734 - 6758 Lundy's Lane Unit 1 Niagara Falls ON L2G 1V5	E/32.1	4.00	86
28	GEN	The Sherwin-Williams Company	6734 - 6758 Lundy's Lane Unit 1 Niagara Falls ON L2G 1V5	E/32.1	4.00	87
28	GEN	The Sherwin-Williams Company	6734 - 6758 Lundy's Lane Unit 1 Niagara Falls ON L2G 1V5	E/32.1	4.00	87
29	BORE		ON	W/2.3	-6.33	87
30	BORE		ON	W/7.1	-5.95	88
31	WWIS		6666 LUNDY'S LANE Niagara Falls ON ***Well ID:*** 7130895	E/49.4	4.46	89
32	EHS		6734 Lundy's Lane Niagara Falls ON L2G 1V5	E/33.1	4.00	92
33	NPRI	H & R REIT	7500 LUNDY'S LANE NOT AVAILABLE NIAGARA FALLS ON L2H1G8	W/48.8	-4.93	92

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
33	NPRI	H & R REIT	7500 LUNDY'S LANE NOT AVAILABLE NIAGARA FALLS ON L2H1G8	W/48.8	-4.93	93
33	NPRI	H & R REIT	7500 LUNDY'S LANE NOT AVAILABLE NIAGARA FALLS ON L2H1G8	W/48.8	-4.93	93
33	NPRI	H & R REIT	7500 LUNDY'S LANE NOT AVAILABLE NIAGARA FALLS ON L2H1G8	W/48.8	-4.93	94
33	NPRI	H & R REIT	7500 LUNDY'S LANE NOT AVAILABLE NIAGARA FALLS ON L2H1G8	W/48.8	-4.93	95
33	NPRI	H&R REAL ESTATE INVESTMENT TRUST	7500 LUNDY'S LANE NOT AVAILABLE NIAGARA FALLS ON L2H1G8	W/48.8	-4.93	95
33	NPRI	H&R REAL ESTATE INVESTMENT TRUST	7500 LUNDY'S LANE NOT AVAILABLE NIAGARA FALLS ON L2H1G8	W/48.8	-4.93	96
33	NPRI	H & R REIT	7500 LUNDY'S Lane NIAGARA FALLS ON L2H1G8	W/48.8	-4.93	97
33	NPRI	H&R REAL ESTATE INVESTMENT TRUST	7500 LUNDY'S LANE NOT AVAILABLE NIAGARA FALLS ON L2H1G8	W/48.8	-4.93	99
33	SPL	Enbridge Gas Distribution Inc.	7500 Lundy's Lane Niagara Falls ON	W/48.8	-4.93	100
33	EHS		7500 Lundy's Lane Niagara Falls ON L2H 1G8	W/48.8	-4.93	100
33	EHS		7500 Lundy's Lane Niagara Falls ON L2H 1G8	W/48.8	-4.93	100
33	PINC	PIPELINE HIT 1 1/4"	7500 LUNDY'S LN,,NIAGARA FALLS,ON, L2H 1G8,CA ON	W/48.8	-4.93	101
35	GEN	ROYAL LINEN SERVICES	6710 LUNDY'S LANE NIAGARA FALLS ON L2G 1V5	E/33.1	4.00	101

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35	GEN	ROYAL LINEN SERVICES	6710 LUNDY'S LANE NIAGARA FALLS ON L2G 1V5	E/33.1	4.00	101
35	GEN	ROYAL LINEN SERVICES 33-079	6710 LUNDY'S LANE NIAGARA FALLS ON L2G 1V5	E/33.1	4.00	102
36	CA	1176892 ONTARIO LTD., O/A LICK'S	6713 LUNDY'S LANE, LOT 5 NIAGARA FALLS CITY ON L2G 1V4	E/32.2	3.19	102
37	WWIS		ON ***Well ID:*** 7168755	E/49.9	4.00	102
39	EHS		6666 Lundy's Lane Niagara Falls ON L2G 1V5	E/12.2	4.00	103
39	GEN	CARA OPERATIONS LIMITED	6666 LUNDY'S LANE NIAGARA FALLS ON	E/12.2	4.00	103
39	GEN	SWISS CHALET ROTISSERIE & GRILL	6666 LUNDY'S LANE NIAGARA FALLS ON L2G 1V5	E/12.2	4.00	104
41	PRT	GALES GAS BARS LTD	6644 LUNDYS LA NIAGARA FALLS ON L2G 1V2	E/33.9	4.00	104
41	RST	GALE'S GAS BARS LTD	6644 LUNDY'S LANE NIAGARA FALLS ON L2G 1V2	E/33.9	4.00	104
41	RST	LUBE-KING	6644 LUNDY'S LANE NIAGARA FALLS ON L2G 1V2	E/33.9	4.00	104
41	FSTH	GALES GAS BARS LTD	6644 LUNDY'S LANE NIAGARA FALLS ON L2G 1V2	E/33.9	4.00	104
41	FSTH	GALES GAS BARS LTD*	6644 LUNDY'S LANE NIAGARA FALLS ON L2G 1V2	E/33.9	4.00	105
41	FST	GALE'S GAS BARS LIMITED	6644 LUNDY'S LANE NIAGARA FALLS L2G 1V2 ON CA ON	E/33.9	4.00	105

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41	FST	GALE'S GAS BARS LIMITED	6644 LUNDY'S LANE NIAGARA FALLS L2G 1V2 ON CA ON	E/33.9	4.00	106
41	FST	GALE'S GAS BARS LIMITED	6644 LUNDY'S LANE NIAGARA FALLS L2G 1V2 ON CA ON	E/33.9	4.00	106
41	RST	LUBE-KING	6644 LUNDY'S LANE NIAGARA FALLS ON L2G1V2	E/33.9	4.00	107
41	RST	GALE'S GAS BARS LTD	6644 LUNDY'S LANE NIAGARA FALLS ON L2G1V2	E/33.9	4.00	107
41	GEN	Gales Gas Bar Ltd	6644 Lundy's Lane Niagara Falls ON L2G1R2	E/33.9	4.00	107
41	DTNK	GALE'S GAS BARS LIMITED	6644 LUNDY'S LANE NIAGARA FALLS L2G 1V2 ON CA ON	E/33.9	4.00	108
41	DTNK	GALE'S GAS BARS LIMITED	6644 LUNDY'S LANE NIAGARA FALLS L2G 1V2 ON CA ON	E/33.9	4.00	108
41	DTNK	GALE'S GAS BARS LIMITED	6644 LUNDY'S LANE NIAGARA FALLS L2G 1V2 ON CA ON	E/33.9	4.00	108
41	FST		6644 LUNDY'S LANE NIAGARA FALLS ON L2G 1V2	E/33.9	4.00	108
41	FST	GALE'S GAS BARS LIMITED	6644 LUNDY'S LANE NIAGARA FALLS L2G 1V2 ON CA ON	E/33.9	4.00	108
42	GEN	Empire Dental Clinic	6641 Lundys Lane Niagara Falls ON L2G 1V3	E/21.3	3.68	109
43	EHS		6641 Lundy's Lane Niagara Falls ON L2G 1V3	E/20.9	3.68	109

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43	EHS		6641 Lundy's Lane Niagara Falls ON L2G 1V3	E/20.9	3.68	110
43	EHS		6641 Lundy's Lane Niagara Falls ON L2G 1V3	E/20.9	3.68	110
44	EHS		6624 Lundy's Lane Niagara Falls ON L2G 1V2	E/20.0	4.56	110
44	EHS		6624 Lundy's Lane Niagara Falls ON L2G 1V2	E/20.0	4.56	110
44	EHS		6624 Lundy's Lane Niagara Falls ON L2G 1V2	E/20.0	4.56	110
44	EHS		6624 Lundy's Lane Niagara Falls ON L2G 1V2	E/20.0	4.56	111
46	GEN	Vommero Enterprises	Comfort Inn 7514 Lundys Lane Niagra Falls ON L2H1G8	W/46.6	-6.00	111
47	WWIS		ON ***Well ID:*** 7050956	E/4.1	5.00	111
48	PES	SHOPPERS DRUG MART #0799 (BATTLEFIELD PLAZA)	6565 LUNDY'S LANE NIAGARA FALLS ON L2G 1V1	E/42.1	4.79	113
48	PES	SHOPPERS DRUG MART #0799 (BATTLEFIELD PLAZA)	6565 LUNDY'S LANE NIAGARA FALLS ON L2G 1V1	E/42.1	4.79	114
48	PES	SHOPPERS DRUG MART #0799 (BATTLEFIELD PLAZA)	6565 LUNDY'S LANE NIAGARA FALLS ON L2G1V1	E/42.1	4.79	114
48	GEN	N. Ferguson Drugs Ltd.	6565 LUNDY'S LANE NIAGARA FALLS ON L2G 1V1	E/42.1	4.79	115
48	GEN	N. Ferguson Drugs Ltd.	6565 LUNDY'S LANE NIAGARA FALLS ON L2G 1V1	E/42.1	4.79	115

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
48	GEN	N. Ferguson Drugs Ltd.	6565 LUNDY'S LANE NIAGARA FALLS ON L2G 1V1	E/42.1	4.79	115
48	PES	SHOPPERS DRUG MART #0799 (BATTLEFIELD PLAZA)	6565 LUNDY'S LANE NIAGARA FALLS ON L2G1V1	E/42.1	4.79	116
48	GEN	Mike Morcous Pharmacy Ltd.	6565 LUNDY'S LANE NIAGARA FALLS ON L2G 1V1	E/42.1	4.79	116
48	GEN	Mike Morcous Pharmacy Ltd.	6565 LUNDY'S LANE NIAGARA FALLS ON L2G 1V1	E/42.1	4.79	116
49	CA	COUNTRY STYLE DONUTS, CSD	6555 LUNDY'S LANE NIAGARA FALLS CITY ON L2G 1V1	E/23.4	5.68	117
49	SPL	SUNOCO	SUNOCO STATION AT 6555 LUNDY'S LANE SERVICE STATION NIAGARA FALLS CITY ON L2G 1V1	E/23.4	5.68	117
49	PRT	BIG CHIEF DIV OF SUNOCO ATTN MARY MISANGYI	6555 LUNDYS LA NIAGARA FALLS ON L2G1V1	E/23.4	5.68	118
49	PRT	DRUMMOND SERVICE STATION 0/A LUNDY'S LANE SUNOCO	6555 LUNDYS LA NIAGARA FALLS ON L2G1V1	E/23.4	5.68	118
49	PRT		6555 LUNDY'S LA. NIAGARA FALLS ON	E/23.4	5.68	118
49	DTNK	SUNCOR ENERGY PRODUCTS INC	6555 LUNDY'S LANE NIAGARA FALLS ON L2G 1V1	E/23.4	5.68	118
49	DTNK	BIG CHIEF # 7731	6555 LUNDY'S LANE NIAGARA FALLS ON L2G 1V1	E/23.4	5.68	119
49	DTNK	BIG CHIEF # 7731	6555 LUNDY'S LANE NIAGARA FALLS L2G 1V1 ON CA ON	E/23.4	5.68	119
49	DTNK	BIG CHIEF # 7731	6555 LUNDY'S LANE NIAGARA FALLS L2G 1V1 ON CA ON	E/23.4	5.68	119

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
49	DTNK	BIG CHIEF # 7731	6555 LUNDY'S LANE NIAGARA FALLS L2G 1V1 ON CA ON	E/23.4	5.68	119
49	DTNK	BIG CHIEF # 7731	6555 LUNDY'S LANE NIAGARA FALLS L2G 1V1 ON CA ON	E/23.4	5.68	120
49	DTNK	SUNCOR ENERGY PRODUCTS INC	6555 LUNDY'S LANE NIAGARA FALLS L2G 1V1 ON CA ON	E/23.4	5.68	120
49	DTNK	SUNCOR ENERGY PRODUCTS INC	6555 LUNDY'S LANE NIAGARA FALLS L2G 1V1 ON CA ON	E/23.4	5.68	120
49	DTNK	SUNCOR ENERGY PRODUCTS INC	6555 LUNDY'S LANE NIAGARA FALLS L2G 1V1 ON CA ON	E/23.4	5.68	120
49	DTNK	SUNCOR ENERGY PRODUCTS INC	6555 LUNDY'S LANE NIAGARA FALLS L2G 1V1 ON CA ON	E/23.4	5.68	120
49	EHS		6555 Lundy's Lane Niagara Falls ON L2G 1V1	E/23.4	5.68	120
49	FST	BIG CHIEF # 7731	6555 LUNDY'S LANE NIAGARA FALLS L2G 1V1 ON CA ON	E/23.4	5.68	120
49	FST	SUNCOR ENERGY PRODUCTS INC	6555 LUNDY'S LANE NIAGARA FALLS L2G 1V1 ON CA ON	E/23.4	5.68	121
49	FST	SUNCOR ENERGY PRODUCTS INC	6555 LUNDY'S LANE NIAGARA FALLS L2G 1V1 ON CA ON	E/23.4	5.68	121
49	FST	BIG CHIEF # 7731	6555 LUNDY'S LANE NIAGARA FALLS L2G 1V1 ON CA ON	E/23.4	5.68	122
49	FST	BIG CHIEF # 7731	6555 LUNDY'S LANE NIAGARA FALLS L2G 1V1 ON CA ON	E/23.4	5.68	123

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
49	FST	BIG CHIEF # 7731	6555 LUNDY'S LANE NIAGARA FALLS L2G 1V1 ON CA ON	E/23.4	5.68	123
49	FST	SUNCOR ENERGY PRODUCTS INC	6555 LUNDY'S LANE NIAGARA FALLS L2G 1V1 ON CA ON	E/23.4	5.68	124
49	FST	SUNCOR ENERGY PRODUCTS INC	6555 LUNDY'S LANE NIAGARA FALLS L2G 1V1 ON CA ON	E/23.4	5.68	124
50	GEN	Central Niagara Animal Hospital Professional Corp	6544 Lundys Lane NIAGARA FALLS ON L2G 1T6	E/28.3	6.02	125
50	GEN	Central Niagara Animal Hospital Professional Corp	6544 Lundys Lane NIAGARA FALLS ON L2G 1T6	E/28.3	6.02	125
50	GEN	Central Niagara Animal Hospital Professional Corp	6544 Lundys Lane NIAGARA FALLS ON L2G 1T6	E/28.3	6.02	126
51	CA		7565 Lundy's Lane Niagara Falls ON L2H 1G9	W/17.1	-6.00	126
51	CA		7565 Lundy's Lane Niagara Falls ON L2H 1G9	W/17.1	-6.00	126
51	ECA	The Regional Municipality of Niagara	7565 Lundy's Lane Niagara Falls ON	W/17.1	-6.00	127
51	ECA	The Regional Municipality of Niagara	7565 Lundy's Lane Niagara Falls ON	W/17.1	-6.00	127
52	SCT	S AND S INDUSTRIES CANADA INC.	6530 LUNDY'S LANE NIAGARA FALLS ON L2G 1T6	E/13.9	5.92	127
52	SCT	S & S INDUSTRIES CANADA	6530 LUNDY'S LANE NIAGARA FALLS ON L2G 1T6	E/13.9	5.92	128

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52	SCT	Novelty World	6530 Lundy's Lane Niagara Falls ON L2G 1T6	E/13.9	5.92	128
53	WWIS		6499 LUNDY'S LANE Niagara Falls ON ***Well ID:*** 7046690	E/18.0	6.39	128
54	SCT	Frames Unlimited	6505 Lundy's Lane Niagara Falls ON L2G 1T9	E/34.5	6.12	130
55	PRT	MARK ALEXANDER WENMAN	6499 LUNDYS LA NIAGARA FALLS ON L2G 1T9	E/27.1	7.02	131
55	PRT	MARK ALEXANDER WENMAN	6499 LUNDYS LA NIAGARA FALLS ON L2G1T9	E/27.1	7.02	131
55	SPL	HARMAC TRANSPORTATION	6499 LUNDY'S LANE TANK TRUCK (CARGO) NIAGARA FALLS CITY ON L2G 1T9	E/27.1	7.02	131
55	RST	SICARD SHELL	6499 LUNDY'S LANE NIAGARA FALLS ON L2G1T9	E/27.1	7.02	131
55	RST	GLEN HOLME SHELL	6499 LUNDY'S LANE NIAGARA FALLS ON L2G 1T9	E/27.1	7.02	132
55	SPL	HARMAC TRANSPORTATION	6499 LUNDY'S LANE TANK TRUCK (CARGO) NIAGARA FALLS CITY ON L2G 1T9	E/27.1	7.02	132
55	EHS		6499 Lundy's Lane Niagara Falls ON L2G 1T9	E/27.1	7.02	132
55	GEN	Shell Canada	6499 lundys lane Niagara Falls ON	E/27.1	7.02	133
55	GEN	Shell Canada	6499 lundys lane Niagara Falls ON L2G1T9	E/27.1	7.02	133
55	EHS		6499 Lundy's Lane Niagara Falls ON L2G 1T9	E/27.1	7.02	133

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55	CPU	Shell Canada Limited	ON	E/27.1	7.02	133
55	DTNK	TU UKS INC O/A GAS STN	6499 LUNDY'S LANE NIAGARA FALLS ON L2G 1T9	E/27.1	7.02	134
55	DTNK	TU UKS INC O/A GAS STN	6499 LUNDY'S LANE NIAGARA FALLS ON	E/27.1	7.02	134
55	DTNK	TU UKS INC O/A GAS STN	6499 LUNDY'S LANE NIAGARA FALLS ON	E/27.1	7.02	135
55	DTNK	TU UKS INC O/A GAS STN	6499 LUNDY'S LANE NIAGARA FALLS ON	E/27.1	7.02	136
55	DTNK	TU UKS INC O/A GAS STN	6499 LUNDY'S LANE NIAGARA FALLS ON	E/27.1	7.02	136
55	GEN	Shell Canada	6499 lundys lane Niagara Falls ON	E/27.1	7.02	137
55	RSC	Shell Canada Limited	6499 LUNDY'S LANE, NIAGARA FALLS, ONTARIO L2G 1T9 Niagara Falls ON	E/27.1	7.02	137
55	GEN	Shell Canada	6499 lundys lane Niagara Falls ON	E/27.1	7.02	139
55	GEN	Shell Canada	6499 lundys lane Niagara Falls ON	E/27.1	7.02	139
55	GEN	Shell Canada	6499 lundys lane Niagara Falls ON L2G1T9	E/27.1	7.02	139
55	DTNK	TU UKS INC O/A GAS STN	6499 LUNDY'S LANE NIAGARA FALLS L2G 1T9 ON CA ON	E/27.1	7.02	140

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
55	DTNK	TU UKS INC O/A GAS STN	6499 LUNDY'S LANE NIAGARA FALLS L2G 1T9 ON CA ON	E/27.1	7.02	140
55	DTNK	TU UKS INC O/A GAS STN	6499 LUNDY'S LANE NIAGARA FALLS L2G 1T9 ON CA ON	E/27.1	7.02	140
55	DTNK	TU UKS INC O/A GAS STN	6499 LUNDY'S LANE NIAGARA FALLS L2G 1T9 ON CA ON	E/27.1	7.02	140
55	DTNK	TU UKS INC O/A GAS STN	6499 LUNDY'S LANE NIAGARA FALLS L2G 1T9 ON CA ON	E/27.1	7.02	140
55	FST	TU UKS INC O/A GAS STN	6499 LUNDY'S LANE NIAGARA FALLS L2G 1T9 ON CA ON	E/27.1	7.02	140
55	FST	TU UKS INC O/A GAS STN	6499 LUNDY'S LANE NIAGARA FALLS L2G 1T9 ON CA ON	E/27.1	7.02	141
55	FST	TU UKS INC O/A GAS STN	6499 LUNDY'S LANE NIAGARA FALLS L2G 1T9 ON CA ON	E/27.1	7.02	141
55	FST	TU UKS INC O/A GAS STN	6499 LUNDY'S LANE NIAGARA FALLS L2G 1T9 ON CA ON	E/27.1	7.02	142
55	FST	TU UKS INC O/A GAS STN	6499 LUNDY'S LANE NIAGARA FALLS L2G 1T9 ON CA ON	E/27.1	7.02	142
56	WWIS		6499 LUNDY'S LANE NIAGARA FALLS ON ***Well ID:*** 7040666	E/10.3	7.08	143
57	GEN	PHARMA PLUS DRUGS LTD.	6484 LUNDYS LANE NIAGARA FALLS ON L2B 1T6	E/48.6	7.48	146
57	GEN	PHARMA PLUS DRUGS LTD. 31-763	6484 LUNDYS LANE, NIAGARA FALLS C/O 5935 AIRPORT ROAD STE. #500 MISSISSAUGA ON L4V 1W5	E/48.6	7.48	146

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57	GEN	Rexall Pharmacy Group Ltd.	6484 Lundy's Lane Niagara Falls ON L2G 1T6	E/48.6	7.48	147
57	GEN	Pharma Plus Drugmarts Ltd	6484 Lundy's Lane Niagara Falls ON L2G 1T6	E/48.6	7.48	147
57	GEN	Pharma Plus Drugmarts Ltd	6484 Lundy's Lane Niagara Falls ON L2G 1T6	E/48.6	7.48	147
57	GEN	Rexall	6484 Lundy's Lane Niagara Falls ON L2G 1T6	E/48.6	7.48	147
57	GEN	Rexall Pharmacy Group Ltd.	6484 Lundy's Lane Niagara Falls ON L2G 1T6	E/48.6	7.48	148
57	GEN	Rexall Pharmacy Group Ltd.	6484 Lundy's Lane Niagara Falls ON L2G 1T6	E/48.6	7.48	148
57	GEN	Rexall Pharmacy Group Ltd.	6484 Lundy's Lane Niagara Falls ON L2G 1T6	E/48.6	7.48	148
58	INC		6494 LUNDY'S LANE, NIAGARA FALLS ON	E/23.0	7.85	149
59	PES	MR. GROCER/597060 ONTARIO INC.	6460 LUNDYS LANE NIAGARA FALLS ON	E/37.3	8.09	149
59	PES	727423 ONTARIO LIMITED	6460 LUNDY'S LANE NIAGARA FALLS ON L2G 1T6	E/37.3	8.09	150
59	PES	1712267 ONTARIO LTD.	6460 LUNDY'S LANE NIAGARA FALLS ON L2G 1T6	E/37.3	8.09	150
59	PES	1712267 ONTARIO LTD.	6460 LUNDY'S LANE NIAGARA FALLS ON L2G 1T6	E/37.3	8.09	151
59	EHS		6460 Lundy's Lane Niagara Falls ON L2G 1T6	E/37.3	8.09	151

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
59	GEN	Loblaws Inc.	6460 Lundy's Lane Niagara Falls ON	E/37.3	8.09	151
59	WWIS		6460 LUNDY'S LANE NIAGARAFALLS ON ***Well ID:*** 7216601	E/37.3	8.09	151
59	PES	1948095 ONTARIO INC O/A JIM'S NO FRILLS	6460 LUNDY'S LANE NIAGARA FALLS ON L2G1T6	E/37.3	8.09	155
59	PES	1712267 ONTARIO LTD.	6460 LUNDY'S LANE NIAGARA FALLS ON L2G1T6	E/37.3	8.09	155
59	GEN	Loblaws Inc.	6460 Lundy's Lane Niagara Falls ON L2G 1T6	E/37.3	8.09	155
59	GEN	Loblaws Inc.	6460 Lundy's Lane Niagara Falls ON L2G 1T6	E/37.3	8.09	156
59	GEN	Loblaws Inc.	6460 Lundy's Lane Niagara Falls ON L2G 1T6	E/37.3	8.09	156
59	PES	1712267 ONTARIO LTD.	6460 LUNDY'S LANE NIAGARA FALLS ON L2G1T6	E/37.3	8.09	156
59	PES	MR. GROCER/597060 ONTARIO INC.	6460 LUNDYS LANE NIAGARA FALLS ON L2G1T6	E/37.3	8.09	157
60	EHS		6465 Lundy's Lane Niagara Falls ON L2G 1T9	E/12.3	6.93	157
61	PES	CREST HARDWARE	6465 LUNDY'S LANE NIAGARA FALLS ON L2G 1T9	E/11.6	6.93	157
61	PES	CREST HARDWARE	6465 LUNDY'S LANE NIAGARA FALLS ON L2G1T9	E/11.6	6.93	158
61	PES	CREST HARDWARE	6465 LUNDY'S LANE NIAGARA FALLS ON L2G1T9	E/11.6	6.93	158

Executive Summary: Summary By Data Source

BORE - Borehole

A search of the BORE database, dated 1875-Jul 2018 has found that there are 13 BORE site(s) within approximately 0.05 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	ON	3.2	2
	ON	0.0	5
	ON	0.0	6
	ON	0.0	7
	ON	0.0	10
	ON	0.0	11
	ON	0.0	12
	ON	5.5	13
	ON	30.0	15

Site	Address	Distance (m)	Map Key
	ON	0.9	25
	ON	0.0	26
	ON	2.3	29
	ON	7.1	30

CA - Certificates of Approval

A search of the CA database, dated 1985-Oct 30, 2011* has found that there are 11 CA site(s) within approximately 0.05 kilometers of the project property.

Site	Address	Distance (m)	Map Key
NIAGARA FALLS BREWING COMPANY	6863 LUNDY'S LANE NIAGARA FALLS CITY ON L2G 1V7	27.7	16
NIAGARA FALLS CITY	ROYAL MANOR DR/LUNDY'S LANE NIAGARA FALLS CITY ON	0.0	19
R.M. OF NIAGARA - LOTS 132 & 141	LUNDY'S LANE/ROYAL MANOR DR. NIAGARA FALLS CITY ON	0.0	19
1137798 Ontario Limited	6812 Lundy's Lane Niagara Falls ON L2G 1V6	29.2	22
JLA FACTORY OUTLET HOLDINGS LTD.	LUNDY'S LANE/RR #51/QEW, SWM NIAGARA FALLS ON	0.0	27
JLA FACTORY OUTLET HOLDINGS LTD.	LUNDY'S LANE/E.OF BELMONT AVE. NIAGARA FALLS ON	0.0	34

Site	Address	Distance (m)	Map Key
1176892 ONTARIO LTD., O/A LICK'S	6713 LUNDY'S LANE, LOT 5 NIAGARA FALLS CITY ON L2G 1V4	32.2	36
NIAGARA FALLS CITY	BYNG AVE/LUNDY'S LANE NIAGARA FALLS ON	0.0	45
COUNTRY STYLE DONUTS, CSD	6555 LUNDY'S LANE NIAGARA FALLS CITY ON L2G 1V1	23.4	49
	7565 Lundy's Lane Niagara Falls ON L2H 1G9	17.1	51
	7565 Lundy's Lane Niagara Falls ON L2H 1G9	17.1	51

CPU - Certificates of Property Use

A search of the CPU database, dated 1994 - Sep 30, 2021 has found that there are 1 CPU site(s) within approximately 0.05 kilometers of the project property.

Site	Address	Distance (m)	Map Key
Shell Canada Limited	ON	27.1	55

DTNK - Delisted Fuel Tanks

A search of the DTNK database, dated May 31, 2021 has found that there are 23 DTNK site(s) within approximately 0.05 kilometers of the project property.

Site	Address	Distance (m)	Map Key
GALE'S GAS BARS LIMITED	6644 LUNDY'S LANE NIAGARA FALLS L2G 1V2 ON CA ON	33.9	41
GALE'S GAS BARS LIMITED	6644 LUNDY'S LANE NIAGARA FALLS L2G 1V2 ON CA ON	33.9	41

Site	Address	Distance (m)	Map Key
GALE'S GAS BARS LIMITED	6644 LUNDY'S LANE NIAGARA FALLS L2G 1V2 ON CA ON	33.9	41
SUNCOR ENERGY PRODUCTS INC	6555 LUNDY'S LANE NIAGARA FALLS ON L2G 1V1	23.4	49
BIG CHIEF # 7731	6555 LUNDY'S LANE NIAGARA FALLS ON L2G 1V1	23.4	49
BIG CHIEF # 7731	6555 LUNDY'S LANE NIAGARA FALLS L2G 1V1 ON CA ON	23.4	49
BIG CHIEF # 7731	6555 LUNDY'S LANE NIAGARA FALLS L2G 1V1 ON CA ON	23.4	49
BIG CHIEF # 7731	6555 LUNDY'S LANE NIAGARA FALLS L2G 1V1 ON CA ON	23.4	49
BIG CHIEF # 7731	6555 LUNDY'S LANE NIAGARA FALLS L2G 1V1 ON CA ON	23.4	49
SUNCOR ENERGY PRODUCTS INC	6555 LUNDY'S LANE NIAGARA FALLS L2G 1V1 ON CA ON	23.4	49
SUNCOR ENERGY PRODUCTS INC	6555 LUNDY'S LANE NIAGARA FALLS L2G 1V1 ON CA ON	23.4	49
SUNCOR ENERGY PRODUCTS INC	6555 LUNDY'S LANE NIAGARA FALLS L2G 1V1 ON CA ON	23.4	49
SUNCOR ENERGY PRODUCTS INC	6555 LUNDY'S LANE NIAGARA FALLS L2G 1V1 ON CA ON	23.4	49

Site	Address	Distance (m)	Map Key
TU UKS INC O/A GAS STN	6499 LUNDY'S LANE NIAGARA FALLS L2G 1T9 ON CA ON	27.1	55
TU UKS INC O/A GAS STN	6499 LUNDY'S LANE NIAGARA FALLS L2G 1T9 ON CA ON	27.1	55
TU UKS INC O/A GAS STN	6499 LUNDY'S LANE NIAGARA FALLS L2G 1T9 ON CA ON	27.1	55
TU UKS INC O/A GAS STN	6499 LUNDY'S LANE NIAGARA FALLS ON L2G 1T9	27.1	55
TU UKS INC O/A GAS STN	6499 LUNDY'S LANE NIAGARA FALLS ON	27.1	55
TU UKS INC O/A GAS STN	6499 LUNDY'S LANE NIAGARA FALLS ON	27.1	55
TU UKS INC O/A GAS STN	6499 LUNDY'S LANE NIAGARA FALLS ON	27.1	55
TU UKS INC O/A GAS STN	6499 LUNDY'S LANE NIAGARA FALLS ON	27.1	55
TU UKS INC O/A GAS STN	6499 LUNDY'S LANE NIAGARA FALLS L2G 1T9 ON CA ON	27.1	55
TU UKS INC O/A GAS STN	6499 LUNDY'S LANE NIAGARA FALLS L2G 1T9 ON CA ON	27.1	55

EBR - Environmental Registry

A search of the EBR database, dated 1994- Sep 30, 2021 has found that there are 1 EBR site(s) within approximately 0.05 kilometers of the project property.

Site	Address	Distance (m)	Map Key
1137798 Ontario Limited	6812 Lundy's Lane Niagara Falls Regional Municipality of Niagara CITY OF NIAGARA FALLS ON	29.2	22

ECA - Environmental Compliance Approval

A search of the ECA database, dated Oct 2011- Sep 30, 2021 has found that there are 3 ECA site(s) within approximately 0.05 kilometers of the project property.

Site	Address	Distance (m)	Map Key
1137798 Ontario Limited	6812 Lundy's Lane Niagara Falls ON L2G 1V6	29.2	22
The Regional Municipality of Niagara	7565 Lundy's Lane Niagara Falls ON	17.1	51
The Regional Municipality of Niagara	7565 Lundy's Lane Niagara Falls ON	17.1	51

EHS - ERIS Historical Searches

A search of the EHS database, dated 1999-Jun 30, 2021 has found that there are 37 EHS site(s) within approximately 0.05 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	7034 Lundy's Lane Niagara Falls ON L2G 1V9	0.0	1
	7009 Lundy's Lane Niagara Falls ON L2G 1W1	8.6	3
	7009 Lundy's Lane Niagara Falls ON L2G 1W1	8.6	3
	6941 Lundy's Lane Niagara Falls ON L2G 1V8	11.1	9

Site	Address	Distance (m)	Map Key
	6889 Lundy's Lane Niagara Falls ON L2G 1V7	20.4	14
	6889 Lundys Lane Niagara Falls ON L2G1V7	20.4	14
	7280 Lundy's Lane Niagara Falls ON L2G 1W2	38.9	20
	7280 Lundy's Lane Niagara Falls ON L2G 1W2	38.9	20
	7280 Lundy's Lane Niagara Falls ON L2G 1W2	38.9	20
	7280 Lundy's Lane Niagara Falls ON L2G 1W2	38.9	20
	7280 Lundy's Lane Niagara Falls ON L2G 1W2	38.9	20
	7280 Lundy's Lane Niagara Falls ON L2G 1W2	38.9	20
	7280 Lundy's Lane Niagara Falls ON L2G 1W2	38.9	20
	7280 Lundy's Lane Niagara Falls ON L2G 1W2	38.9	20
	7230-7280 Lundy's Lane Niagara Falls ON L2G 1W2	3.5	21
	6800-6812 Lundy's Lane Niagara Falls ON L2G 1V6	29.2	22

Site	Address	Distance (m)	Map Key
	6800 & 6812 Lundy's Lane Niagara Falls ON L8R 3L2	29.2	22
	7301 Lundy's Lane Niagara Falls ON L2H 2W9	49.3	23
	7301 Lundy's Lane Niagara Falls ON L2H 2W9	49.3	23
	7301 Lundy's Lane Niagara Falls ON L2H 2W9	49.3	23
	6734 Lundy's Lane Niagara Falls ON L2G 1V5	33.1	32
	7500 Lundy's Lane Niagara Falls ON L2H 1G8	48.8	33
	7500 Lundy's Lane Niagara Falls ON L2H 1G8	48.8	33
	6666 Lundys Lane Niagara Falls ON	0.0	38
	6666 Lundy's Lane Niagara Falls ON L2G 1V5	12.2	39
	6641 Lundy's Lane Niagara Falls ON L2G 1V3	20.9	43
	6641 Lundy's Lane Niagara Falls ON L2G 1V3	20.9	43

Site	Address	Distance (m)	Map Key
	6641 Lundy's Lane Niagara Falls ON L2G 1V3	20.9	43
	6624 Lundy's Lane Niagara Falls ON L2G 1V2	20.0	44
	6624 Lundy's Lane Niagara Falls ON L2G 1V2	20.0	44
	6624 Lundy's Lane Niagara Falls ON L2G 1V2	20.0	44
	6624 Lundy's Lane Niagara Falls ON L2G 1V2	20.0	44
	6555 Lundy's Lane Niagara Falls ON L2G 1V1	23.4	49
	6499 Lundy's Lane Niagara Falls ON L2G 1T9	27.1	55
	6499 Lundy's Lane Niagara Falls ON L2G 1T9	27.1	55
	6460 Lundy's Lane Niagara Falls ON L2G 1T6	37.3	59
	6465 Lundy's Lane Niagara Falls ON L2G 1T9	12.3	60

FST - Fuel Storage Tank

A search of the FST database, dated May 31, 2021 has found that there are 20 FST site(s) within approximately 0.05 kilometers of the project property.

Site	Address	Distance (m)	Map Key
CITY OF NIAGARA FALLS	7467 LUNDY'S LANE NIAGARA FALLS L2H 1G9 ON CA ON	0.0	40
CITY OF NIAGARA FALLS	7467 LUNDY'S LANE NIAGARA FALLS L2H 1G9 ON CA ON	0.0	40
GALE'S GAS BARS LIMITED	6644 LUNDY'S LANE NIAGARA FALLS L2G 1V2 ON CA ON	33.9	41
	6644 LUNDY'S LANE NIAGARA FALLS ON L2G 1V2	33.9	41
GALE'S GAS BARS LIMITED	6644 LUNDY'S LANE NIAGARA FALLS L2G 1V2 ON CA ON	33.9	41
GALE'S GAS BARS LIMITED	6644 LUNDY'S LANE NIAGARA FALLS L2G 1V2 ON CA ON	33.9	41
GALE'S GAS BARS LIMITED	6644 LUNDY'S LANE NIAGARA FALLS L2G 1V2 ON CA ON	33.9	41
SUNCOR ENERGY PRODUCTS INC	6555 LUNDY'S LANE NIAGARA FALLS L2G 1V1 ON CA ON	23.4	49
SUNCOR ENERGY PRODUCTS INC	6555 LUNDY'S LANE NIAGARA FALLS L2G 1V1 ON CA ON	23.4	49
BIG CHIEF # 7731	6555 LUNDY'S LANE NIAGARA FALLS L2G 1V1 ON CA ON	23.4	49
BIG CHIEF # 7731	6555 LUNDY'S LANE NIAGARA FALLS L2G 1V1 ON CA ON	23.4	49
BIG CHIEF # 7731	6555 LUNDY'S LANE NIAGARA FALLS L2G 1V1 ON CA ON	23.4	49

Site	Address	Distance (m)	Map Key
SUNCOR ENERGY PRODUCTS INC	6555 LUNDY'S LANE NIAGARA FALLS L2G 1V1 ON CA ON	23.4	49
SUNCOR ENERGY PRODUCTS INC	6555 LUNDY'S LANE NIAGARA FALLS L2G 1V1 ON CA ON	23.4	49
BIG CHIEF # 7731	6555 LUNDY'S LANE NIAGARA FALLS L2G 1V1 ON CA ON	23.4	49
TU UKS INC O/A GAS STN	6499 LUNDY'S LANE NIAGARA FALLS L2G 1T9 ON CA ON	27.1	55
TU UKS INC O/A GAS STN	6499 LUNDY'S LANE NIAGARA FALLS L2G 1T9 ON CA ON	27.1	55
TU UKS INC O/A GAS STN	6499 LUNDY'S LANE NIAGARA FALLS L2G 1T9 ON CA ON	27.1	55
TU UKS INC O/A GAS STN	6499 LUNDY'S LANE NIAGARA FALLS L2G 1T9 ON CA ON	27.1	55
TU UKS INC O/A GAS STN	6499 LUNDY'S LANE NIAGARA FALLS L2G 1T9 ON CA ON	27.1	55

FSTH - Fuel Storage Tank - Historic

A search of the FSTH database, dated Pre-Jan 2010* has found that there are 4 FSTH site(s) within approximately 0.05 kilometers of the project property.

Site	Address	Distance (m)	Map Key
CORP OF CITY OF NIAGARA FALLS	7467 LUNDY'S LA NIAGARA FALLS ON	0.0	40

Site	Address	Distance (m)	Map Key
CORP OF CITY OF NIAGARA FALLS	7467 LUNDYS LA NIAGARA FALLS ON	0.0	40
GALES GAS BARS LTD*	6644 LUNDY'S LANE NIAGARA FALLS ON L2G 1V2	33.9	41
GALES GAS BARS LTD	6644 LUNDY'S LANE NIAGARA FALLS ON L2G 1V2	33.9	41

GEN - Ontario Regulation 347 Waste Generators Summary

A search of the GEN database, dated 1986-Aug 31, 2021 has found that there are 59 GEN site(s) within approximately 0.05 kilometers of the project property.

Site	Address	Distance (m)	Map Key
PartSource 709	6812 Lundy's Lane Niagara Falls ON	29.2	22
Canadian Tire Corporation, limited	6812 Lundy's Lane Niagara Falls ON L2G 1V6	29.2	22
Canadian Tire Corporation, limited	6812 Lundy's Lane Niagara Falls ON L2G 1V6	29.2	22
Canadian Tire Corporation, limited	6812 Lundy's Lane Niagara Falls ON L2G 1V6	29.2	22
Canadian Tire Corporation, limited	6812 Lundy's Lane Niagara Falls ON L2G 1V6	29.2	22
KWIK-KOPY PRINTING	6769 LUNDY'S LANE NIAGARA FALLS ON L2G 1V4	44.5	24
KWIK-KOPY PRINTING 23-535	581814 ONTARIO LTD. 6769 LUNDY'S LANE NIAGARA FALLS ON L2G 1V4	44.5	24

Site	Address	Distance (m)	Map Key
KWIK KOPY PRINTING	6769 LUNDY'S LANE NIAGARA FALLS ON L2G 1V4	44.5	24
KWIK KOPY PRINTING	581814 ONTARIO LIMITED 6769 LUNDY'S LANE NIAGARA FALLS ON L2G 1V4	44.5	24
2049214 Ontario Inc.	6769 Lundy's Lane #4 Niagara Falls ON L2G 1V4	44.5	24
The Sherwin-Williams Company	6734 - 6758 Lundy's Lane Unit 1 Niagara Falls ON L2G 1V5	32.1	28
The Sherwin-Williams Company	6734 - 6758 Lundy's Lane Unit 1 Niagara Falls ON L2G 1V5	32.1	28
The Sherwin-Williams Company	6734 - 6758 Lundy's Lane Unit 1 Niagara Falls ON L2G 1V5	32.1	28
The Sherwin-Williams Company	6734 - 6758 Lundy's Lane Unit 1 Niagara Falls ON L2G 1V5	32.1	28
The Sherwin-Williams Company	6734 - 6758 Lundy's Lane Unit 1 Niagara Falls ON	32.1	28
The Sherwin-Williams Company	6734 - 6758 Lundy's Lane Unit 1 Niagara Falls ON L2G 1V5	32.1	28
The Sherwin-Williams Company	6734 - 6758 Lundy's Lane Unit 1 Niagara Falls ON L2G 1V5	32.1	28
The Sherwin-Williams Company	6734 - 6758 Lundy's Lane Unit 1 Niagara Falls ON L2G 1V5	32.1	28

Site	Address	Distance (m)	Map Key
The Sherwin-Williams Company	6734 - 6758 Lundy's Lane Unit 1 Niagara Falls ON L2G 1V5	32.1	28
The Sherwin-Williams Company	6734 - 6758 Lundy's Lane Unit 1 Niagara Falls ON L2G 1V5	32.1	28
The Sherwin-Williams Company	6734 - 6758 Lundy's Lane Unit 1 Niagara Falls ON L2G 1V5	32.1	28
ROYAL LINEN SERVICES	6710 LUNDY'S LANE NIAGARA FALLS ON L2G 1V5	33.1	35
ROYAL LINEN SERVICES	6710 LUNDY'S LANE NIAGARA FALLS ON L2G 1V5	33.1	35
ROYAL LINEN SERVICES 33-079	6710 LUNDY'S LANE NIAGARA FALLS ON L2G 1V5	33.1	35
CARA OPERATIONS LIMITED	6666 LUNDY'S LANE NIAGARA FALLS ON	12.2	39
SWISS CHALET ROTISSERIE & GRILL	6666 LUNDY'S LANE NIAGARA FALLS ON L2G 1V5	12.2	39
Niagara Falls, Corpof the City of	7467 Lundy's Lane Niagara Falls ON L2H 1G9	0.0	40
Niagara Falls, Corpof the City of	7467 Lundy's Lane Niagara Falls ON L2H 1G9	0.0	40
Niagara Falls, Corpof the City of	7467 Lundy's Lane Niagara Falls ON L2H 1G9	0.0	40
Gales Gas Bar Ltd	6644 Lundy's Lane Niagara Falls ON L2G1R2	33.9	41

Site	Address	Distance (m)	Map Key
Empire Dental Clinic	6641 Lundys Lane Niagara Falls ON L2G 1V3	21.3	42
Vommero Enterprises	Comfort Inn 7514 Lundys Lane Niagra Falls ON L2H1G8	46.6	46
N. Ferguson Drugs Ltd.	6565 LUNDY'S LANE NIAGARA FALLS ON L2G 1V1	42.1	48
N. Ferguson Drugs Ltd.	6565 LUNDY'S LANE NIAGARA FALLS ON L2G 1V1	42.1	48
N. Ferguson Drugs Ltd.	6565 LUNDY'S LANE NIAGARA FALLS ON L2G 1V1	42.1	48
Mike Morcous Pharmacy Ltd.	6565 LUNDY'S LANE NIAGARA FALLS ON L2G 1V1	42.1	48
Mike Morcous Pharmacy Ltd.	6565 LUNDY'S LANE NIAGARA FALLS ON L2G 1V1	42.1	48
Central Niagara Animal Hospital Professional Corp	6544 Lundys Lane NIAGARA FALLS ON L2G 1T6	28.3	50
Central Niagara Animal Hospital Professional Corp	6544 Lundys Lane NIAGARA FALLS ON L2G 1T6	28.3	50
Central Niagara Animal Hospital Professional Corp	6544 Lundys Lane NIAGARA FALLS ON L2G 1T6	28.3	50
Shell Canada	6499 lundys lane Niagara Falls ON L2G1T9	27.1	55

Site	Address	Distance (m)	Map Key
Shell Canada	6499 lundys lane Niagara Falls ON	27.1	55
Shell Canada	6499 lundys lane Niagara Falls ON L2G1T9	27.1	55
Shell Canada	6499 lundys lane Niagara Falls ON	27.1	55
Shell Canada	6499 lundys lane Niagara Falls ON	27.1	55
Shell Canada	6499 lundys lane Niagara Falls ON	27.1	55
PHARMA PLUS DRUGS LTD.	6484 LUNDYS LANE NIAGARA FALLS ON L2B 1T6	48.6	57
Rexall Pharmacy Group Ltd.	6484 Lundy's Lane Niagara Falls ON L2G 1T6	48.6	57
Pharma Plus Drugmarts Ltd	6484 Lundy's Lane Niagara Falls ON L2G 1T6	48.6	57
Pharma Plus Drugmarts Ltd	6484 Lundy's Lane Niagara Falls ON L2G 1T6	48.6	57
Rexall	6484 Lundy's Lane Niagara Falls ON L2G 1T6	48.6	57
Rexall Pharmacy Group Ltd.	6484 Lundy's Lane Niagara Falls ON L2G 1T6	48.6	57
Rexall Pharmacy Group Ltd.	6484 Lundy's Lane Niagara Falls ON L2G 1T6	48.6	57

Site	Address	Distance (m)	Map Key
Rexall Pharmacy Group Ltd.	6484 Lundy's Lane Niagara Falls ON L2G 1T6	48.6	57
PHARMA PLUS DRUGS LTD. 31-763	6484 LUNDYS LANE, NIAGARA FALLS C/O 5935 AIRPORT ROAD STE. #500 MISSISSAUGA ON L4V 1W5	48.6	57
Loblaws Inc.	6460 Lundy's Lane Niagara Falls ON	37.3	59
Loblaws Inc.	6460 Lundy's Lane Niagara Falls ON L2G 1T6	37.3	59
Loblaws Inc.	6460 Lundy's Lane Niagara Falls ON L2G 1T6	37.3	59
Loblaws Inc.	6460 Lundy's Lane Niagara Falls ON L2G 1T6	37.3	59

HINC - TSSA Historic Incidents

A search of the HINC database, dated 2006-June 2009* has found that there are 1 HINC site(s) within approximately 0.05 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	6981 LUNDY'S LANE NIAGARA FALLS ON L2G 1W1	16.9	4

INC - Fuel Oil Spills and Leaks

A search of the INC database, dated May 31, 2021 has found that there are 1 INC site(s) within approximately 0.05 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	6494 LUNDY'S LANE, NIAGARA FALLS ON	23.0	58

Site	Address	Distance (m)	Map Key

NPRI - National Pollutant Release Inventory

A search of the NPRI database, dated 1993-May 2017 has found that there are 9 NPRI site(s) within approximately 0.05 kilometers of the project property.

Site	Address	Distance (m)	Map Key
H & R REIT	7500 LUNDY'S LANE NOT AVAILABLE NIAGARA FALLS ON L2H1G8	48.8	33
H & R REIT	7500 LUNDY'S LANE NOT AVAILABLE NIAGARA FALLS ON L2H1G8	48.8	33
H & R REIT	7500 LUNDY'S LANE NOT AVAILABLE NIAGARA FALLS ON L2H1G8	48.8	33
H & R REIT	7500 LUNDY'S LANE NOT AVAILABLE NIAGARA FALLS ON L2H1G8	48.8	33
H&R REAL ESTATE INVESTMENT TRUST	7500 LUNDY'S LANE NOT AVAILABLE NIAGARA FALLS ON L2H1G8	48.8	33
H&R REAL ESTATE INVESTMENT TRUST	7500 LUNDY'S LANE NOT AVAILABLE NIAGARA FALLS ON L2H1G8	48.8	33
H&R REAL ESTATE INVESTMENT TRUST	7500 LUNDY'S LANE NOT AVAILABLE NIAGARA FALLS ON L2H1G8	48.8	33
H & R REIT	7500 LUNDY'S Lane NIAGARA FALLS ON L2H1G8	48.8	33
H & R REIT	7500 LUNDY'S LANE NOT AVAILABLE NIAGARA FALLS ON L2H1G8	48.8	33

PES - Pesticide Register

A search of the PES database, dated Oct 2011- Sep 30, 2021 has found that there are 15 PES site(s) within approximately 0.05 kilometers of the project property.

Site	Address	Distance (m)	Map Key
SHOPPERS DRUG MART #0799 (BATTLEFIELD PLAZA)	6565 LUNDY'S LANE NIAGARA FALLS ON L2G1V1	42.1	48
SHOPPERS DRUG MART #0799 (BATTLEFIELD PLAZA)	6565 LUNDY'S LANE NIAGARA FALLS ON L2G1V1	42.1	48
SHOPPERS DRUG MART #0799 (BATTLEFIELD PLAZA)	6565 LUNDY'S LANE NIAGARA FALLS ON L2G 1V1	42.1	48
SHOPPERS DRUG MART #0799 (BATTLEFIELD PLAZA)	6565 LUNDY'S LANE NIAGARA FALLS ON L2G 1V1	42.1	48
MR. GROCER/597060 ONTARIO INC.	6460 LUNDYS LANE NIAGARA FALLS ON	37.3	59
727423 ONTARIO LIMITED	6460 LUNDY'S LANE NIAGARA FALLS ON L2G 1T6	37.3	59
1712267 ONTARIO LTD.	6460 LUNDY'S LANE NIAGARA FALLS ON L2G 1T6	37.3	59
1712267 ONTARIO LTD.	6460 LUNDY'S LANE NIAGARA FALLS ON L2G 1T6	37.3	59
1948095 ONTARIO INC O/A JIM'S NO FRILLS	6460 LUNDY'S LANE NIAGARA FALLS ON L2G1T6	37.3	59
1712267 ONTARIO LTD.	6460 LUNDY'S LANE NIAGARA FALLS ON L2G1T6	37.3	59
1712267 ONTARIO LTD.	6460 LUNDY'S LANE NIAGARA FALLS ON L2G1T6	37.3	59

Site	Address	Distance (m)	Map Key
MR. GROCER/597060 ONTARIO INC.	6460 LUNDYS LANE NIAGARA FALLS ON L2G1T6	37.3	59
CREST HARDWARE	6465 LUNDY'S LANE NIAGARA FALLS ON L2G1T9	11.6	61
CREST HARDWARE	6465 LUNDY'S LANE NIAGARA FALLS ON L2G1T9	11.6	61
CREST HARDWARE	6465 LUNDY'S LANE NIAGARA FALLS ON L2G 1T9	11.6	61

PINC - Pipeline Incidents

A search of the PINC database, dated May 31, 2021 has found that there are 1 PINC site(s) within approximately 0.05 kilometers of the project property.

Site	Address	Distance (m)	Map Key
PIPELINE HIT 1 1/4"	7500 LUNDY'S LN,,NIAGARA FALLS,ON,L2H 1G8,CA ON	48.8	33

PRT - Private and Retail Fuel Storage Tanks

A search of the PRT database, dated 1989-1996* has found that there are 7 PRT site(s) within approximately 0.05 kilometers of the project property.

Site	Address	Distance (m)	Map Key
CORP OF CITY OF NIAGARA FALLS	7467 LUNDYS LA NIAGARA FALLS ON L2H 1G9	0.0	40
GALES GAS BARS LTD	6644 LUNDYS LA NIAGARA FALLS ON L2G 1V2	33.9	41
	6555 LUNDY'S LA. NIAGARA FALLS ON	23.4	49

Site	Address	Distance (m)	Map Key
DRUMMOND SERVICE STATION 0/A LUNDY'S LANE SUNOCO	6555 LUNDYS LA NIAGARA FALLS ON L2G1V1	23.4	49
BIG CHIEF DIV OF SUNOCO ATTN MARY MISANGYI	6555 LUNDYS LA NIAGARA FALLS ON L2G1V1	23.4	49
MARK ALEXANDER WENMAN	6499 LUNDYS LA NIAGARA FALLS ON L2G 1T9	27.1	55
MARK ALEXANDER WENMAN	6499 LUNDYS LA NIAGARA FALLS ON L2G1T9	27.1	55

RSC - Record of Site Condition

A search of the RSC database, dated 1997-Sept 2001, Oct 2004-Sep 2021 has found that there are 1 RSC site(s) within approximately 0.05 kilometers of the project property.

Site	Address	Distance (m)	Map Key
Shell Canada Limited	6499 LUNDY'S LANE, NIAGARA FALLS, ONTARIO L2G 1T9 Niagara Falls ON	27.1	55

RST - Retail Fuel Storage Tanks

A search of the RST database, dated 1999-Sep 30, 2021 has found that there are 6 RST site(s) within approximately 0.05 kilometers of the project property.

Site	Address	Distance (m)	Map Key
GALE'S GAS BARS LTD	6644 LUNDY'S LANE NIAGARA FALLS ON L2G1V2	33.9	41
GALE'S GAS BARS LTD	6644 LUNDY'S LANE NIAGARA FALLS ON L2G 1V2	33.9	41
LUBE-KING	6644 LUNDY'S LANE NIAGARA FALLS ON L2G1V2	33.9	41

Site	Address	Distance (m)	Map Key
LUBE-KING	6644 LUNDY'S LANE NIAGARA FALLS ON L2G 1V2	33.9	41
SICARD SHELL	6499 LUNDY'S LANE NIAGARA FALLS ON L2G1T9	27.1	55
GLEN HOLME SHELL	6499 LUNDY'S LANE NIAGARA FALLS ON L2G 1T9	27.1	55

SCT - Scott's Manufacturing Directory

A search of the SCT database, dated 1992-Mar 2011* has found that there are 13 SCT site(s) within approximately 0.05 kilometers of the project property.

Site	Address	Distance (m)	Map Key
NIAGARA FALLS BREWING COMPANY	6863 LUNDY'S LANE NIAGARA FALLS ON L2G 1V7	27.7	16
NIAGARA FALLS BREWING COMPANY	6863 LUNDY'S LANE NIAGARA FALLS ON L2G 1V7	27.7	16
NIAGARA FALLS BREWING CO	6863 LUNDYS LANE NIAGARA FALLS ON L2G 1V7	27.7	16
Niagara Brewing Company	6863 Lundy's Lane Niagara Falls ON L2G 1V7	27.7	16
IDEAL DONUT	6864 LUNDY'S LANE NIAGARA FALLS ON L2G 1V6	40.1	17
CRIVELLER CANDIES CANADA	6853 LUNDY'S LANE NIAGARA FALLS ON L2G 1V7	24.8	18

Site	Address	Distance (m)	Map Key
Criveller Candies	6853 Lundy's Lane Niagara Falls ON L2G 1V7	24.8	18
KWIK KOPY PRINTING	6769 LUNDY'S LANE UNIT 4 NIAGARA FALLS ON L2G 1V4	44.5	24
Kwik Kopy Design & Print	6769 Lundy's Lane Niagara Falls ON L2G 1V4	44.5	24
Novelty World	6530 Lundy's Lane Niagara Falls ON L2G 1T6	13.9	52
S & S INDUSTRIES CANADA	6530 LUNDY'S LANE NIAGARA FALLS ON L2G 1T6	13.9	52
S AND S INDUSTRIES CANADA INC.	6530 LUNDY'S LANE NIAGARA FALLS ON L2G 1T6	13.9	52
Frames Unlimited	6505 Lundy's Lane Niagara Falls ON L2G 1T9	34.5	54

SPL - Ontario Spills

A search of the SPL database, dated 1988-Sep 2020 has found that there are 5 SPL site(s) within approximately 0.05 kilometers of the project property.

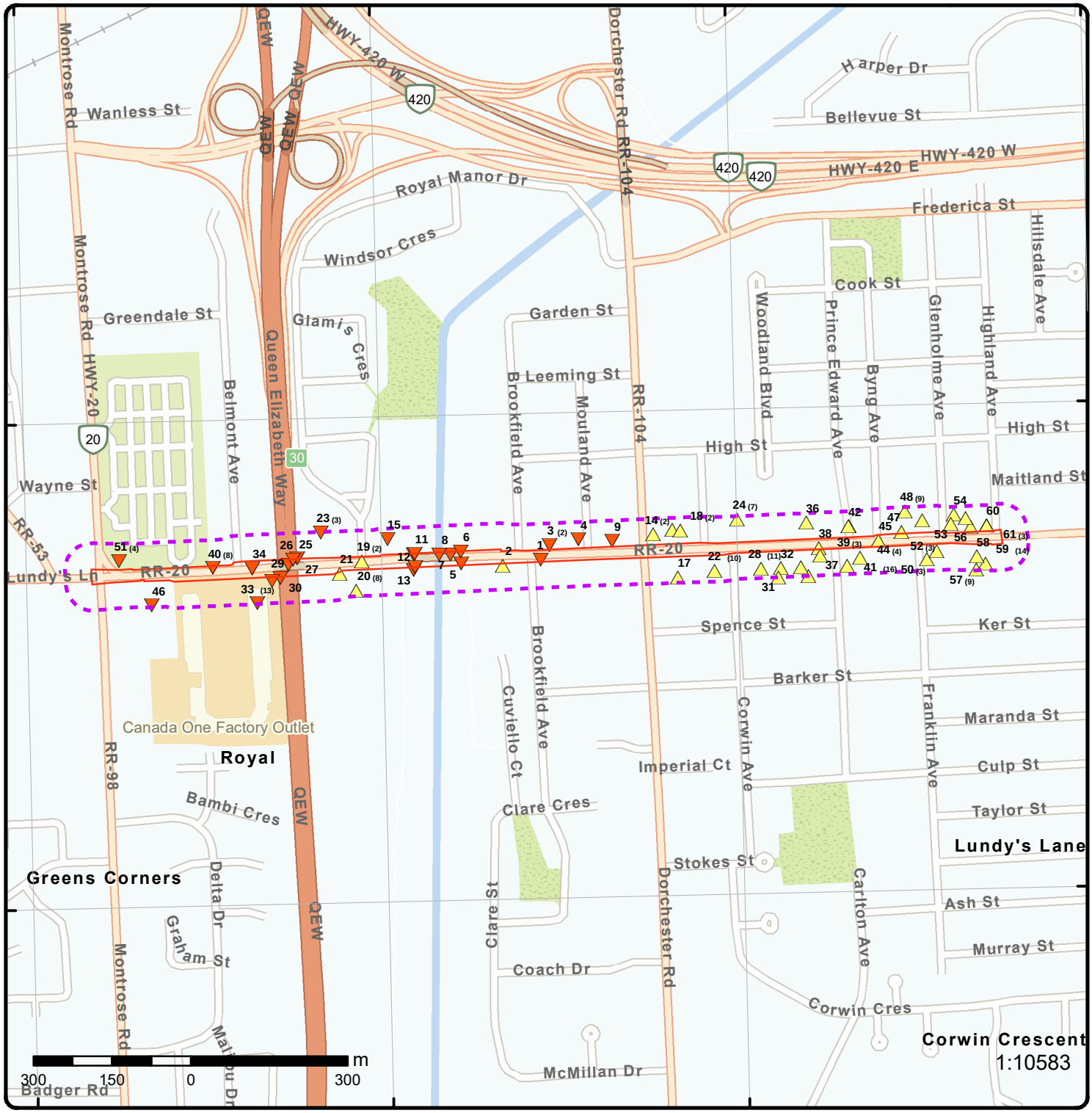
Site	Address	Distance (m)	Map Key
NIAGARA, REGIONAL MUNICIPALITY	LUNDY'S LANE CROSSING OF THE HYDRO CANAL WATER SUPPLY SYSTEM NIAGARA FALLS CITY ON	0.0	8
Enbridge Gas Distribution Inc.	7500 Lundy's Lane Niagara Falls ON	48.8	33
SUNOCO	SUNOCO STATION AT 6555 LUNDY'S LANE SERVICE STATION NIAGARA FALLS CITY ON L2G 1V1	23.4	49

Site	Address	Distance (m)	Map Key
HARMAC TRANSPORTATION	6499 LUNDY'S LANE TANK TRUCK (CARGO) NIAGARA FALLS CITY ON L2G 1T9	27.1	55
HARMAC TRANSPORTATION	6499 LUNDY'S LANE TANK TRUCK (CARGO) NIAGARA FALLS CITY ON L2G 1T9	27.1	55

WWIS - Water Well Information System

A search of the WWIS database, dated Apr 30, 2021 has found that there are 6 WWIS site(s) within approximately 0.05 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	6666 LUNDY'S LANE Niagara Falls ON ***Well ID:*** 7130895	49.4	31
	ON ***Well ID:*** 7168755	49.9	37
	ON ***Well ID:*** 7050956	4.1	47
	6499 LUNDY'S LANE Niagara Falls ON ***Well ID:*** 7046690	18.0	53
	6499 LUNDY'S LANE NIAGARA FALLS ON ***Well ID:*** 7040666	10.3	56
	6460 LUNDY'S LANE NIAGARAFALLS ON ***Well ID:*** 7216601	37.3	59



Map: 0.05 Kilometer Radius

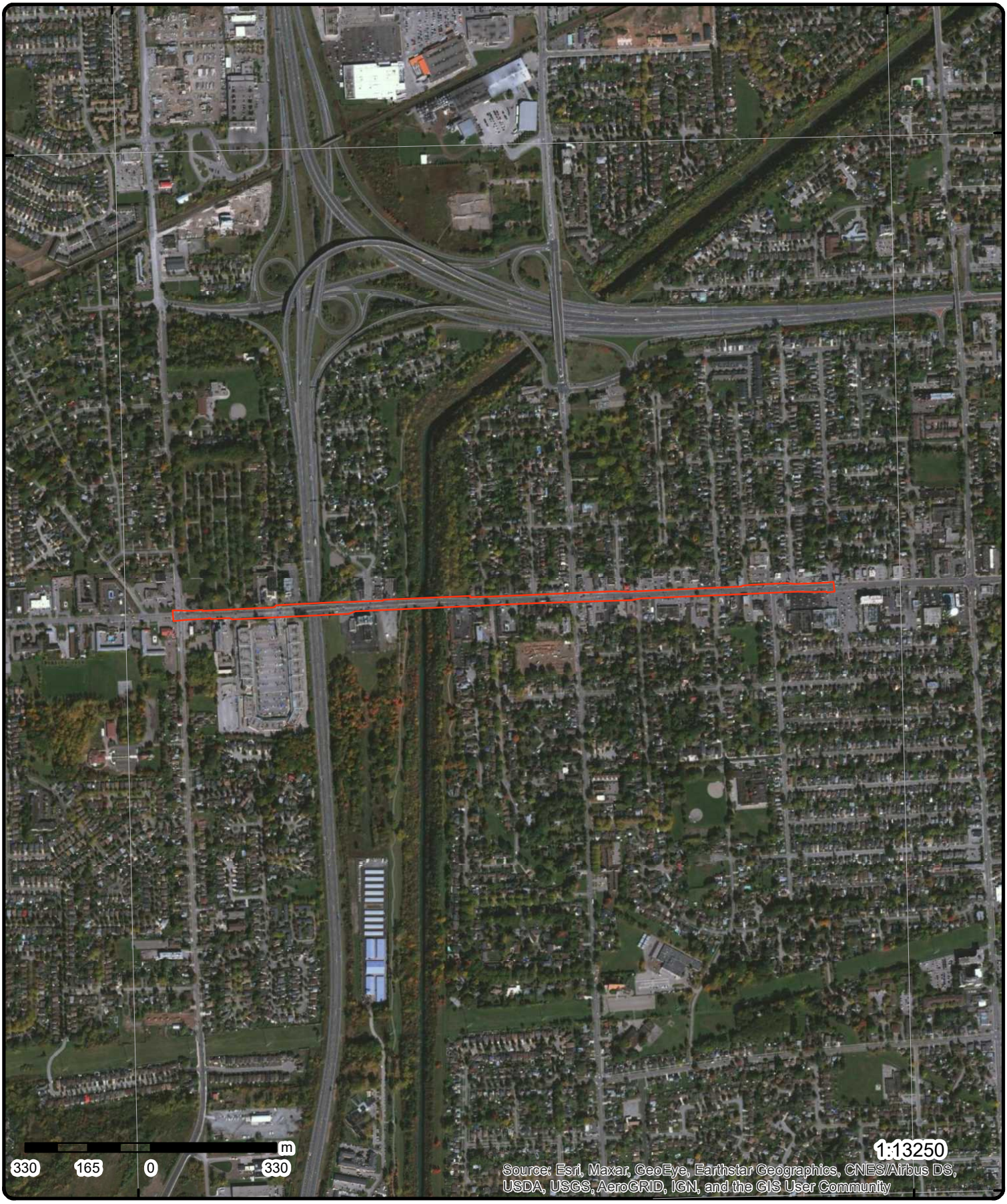
Order Number: 21112500066

Address: Lundy's Lane, Niagara Falls, ON

- Project Property
- Buffer Outline
- Eris Sites with Higher Elevation
- Eris Sites with Same Elevation
- Eris Sites with Lower Elevation
- Eris Sites with Unknown Elevation
- Freeways; Highways
- Traffic Circle; Ramp
- Major Arterial; Minor Arterial
- Local Road
- Service Road; Traffic Circle; Ramp
- Rail
- Beach
- Airport
- Industrial Area
- Military Base
- Aircraft Roads
- Native Reservation
- Hospital
- Shopping & Sports Area
- University/College
- Cemetery; Golf Course
- Parkt (National)
- Park (City/County)

Source: © 2021 ESRI StreetMap Premium.

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Aerial

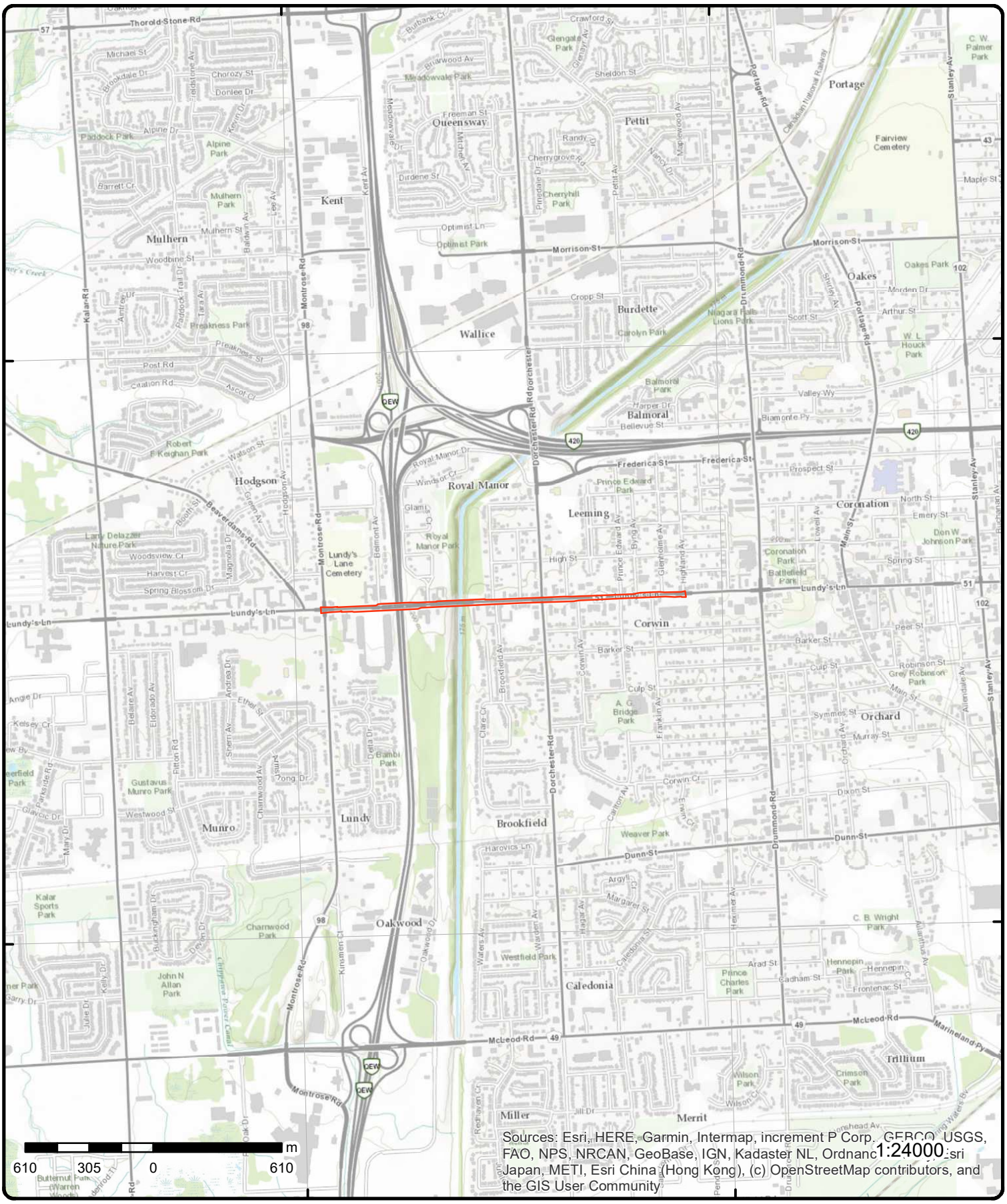
Year: 2020

Order Number: 21112500066

Address: Lundy's Lane, Niagara Falls, ON

Source: ESRI World Imagery

© ERIS Information Limited Partnership



Topographic Map

Address: Lundy's Lane, ON

Source: ESRI World Topographic Map

Order Number: 21112500066

© ERIS Information Limited Partnership

Detail Report

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
1	1 of 1	E/0.0	200.5 / -0.30	7034 Lundy's Lane Niagara Falls ON L2G 1V9	EHS

Order No:	20100525006	**Nearest Intersection:**	Lundy's Lane and Brookfield Avenue
Status:	C	**Municipality:**	
Report Type:	Standard Report	**Client Prov/State:**	ON
Report Date:	6/2/2010	**Search Radius (km):**	0.25
Date Received:	5/25/2010	**X:**	-79.112978
Previous Site Name:		**Y:**	43.089153
Lot/Building Size:			

Additional Info Ordered: Fire Insur. Maps and/or Site Plans; City Directory

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Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
5	1 of 1	W/0.0	197.1 / -3.77	ON	BORE

Borehole ID:	857754	**Inclin FLG:**	No
OGF ID:	215577752	**SP Status:**	Initial Entry
Status:	Decommissioned	**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:	Geotechnical/Geological Investigation	**Primary Name:**	
Completion Date:	29-JAN-1962	**Municipality:**	
Static Water Level:		**Lot:**	
Primary Water Use:		**Township:**	
Sec. Water Use:		**Latitude DD:**	43.089109
Total Depth m:	12.6	**Longitude DD:**	-79.114839
Depth Ref:	Ground Surface	**UTM Zone:**	17
Depth Elev:		**Easting:**	653436
Drill Method:	Hollow stem auger	**Northing:**	4772435
Orig Ground Elev m:	203	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Within 10 metres
DEM Ground Elev m:	196		

Concession:

Location D: Widening of Structure on Lundy's Lane, Hwy. 3A & 20 over H.E.P.C (Hydro Electric Power Commission's) Canal, Niagara Falls, County of Stamford, District #4

Survey D:

Comments:

Borehole Geology Stratum

Geology Stratum ID:	220433360	**Mat Consistency:**	Loose
Top Depth:	.9	**Material Moisture:**	
Bottom Depth:	5.8	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	Fill-Misc
Material 1:	Sand	**Geologic Formation:**	
Material 2:	Silty	**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	

Gsc Material Description:

Stratum Description: Fill material silty sand. Loose to very dense **Note: Many records provided by the department have a truncated [Stratum Description] field.

Geology Stratum ID:	220433361	**Mat Consistency:**	Very Dense
Top Depth:	5.8	**Material Moisture:**	

Bottom Depth:	12.6	**Material Texture:**	
Material Color:	Red-Brown	**Non Geo Mat Type:**	
Material 1:	Silt	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	

Gsc Material Description:
Stratum Description: Silt. Very dense. Brown red **Note: Many records provided by the department have a truncated [Stratum Description] field.

Geology Stratum ID:	220433359	**Mat Consistency:**	
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	.9	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Topsoil	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	

Gsc Material Description:
Stratum Description: Topsoil **Note: Many records provided by the department have a truncated [Stratum Description] field.

---

6 | ***1 of 1*** | ***W/0.0*** | ***196.4 / -4.47*** | ***ON*** | ***BORE***

Borehole ID:	857755	**Inclin FLG:**	No
OGF ID:	215577753	**SP Status:**	Initial Entry
Status:	Decommissioned	**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:	Geotechnical/Geological Investigation	**Primary Name:**	
Completion Date:	23-JAN-1962	**Municipality:**	
Static Water Level:		**Lot:**	
Primary Water Use:		**Township:**	
Sec. Water Use:		**Latitude DD:**	43.089317
Total Depth m:	24.1	**Longitude DD:**	-79.114845
Depth Ref:	Ground Surface	**UTM Zone:**	17
Depth Elev:		**Easting:**	653435
Drill Method:	Hollow stem auger	**Northing:**	4772458
Orig Ground Elev m:	202	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Within 10 metres
DEM Ground Elev m:	196		

Concession:
Location D: Widening of Structure on Lundy's Lane, Hwy. 3A & 20 over H.E.P.C (Hydro Electric Power Commission's) Canal, Niagara Falls, County of Stamford, District #4
Survey D:
Comments:

Borehole Geology Stratum

Geology Stratum ID:	220433368	**Mat Consistency:**	Very Dense
Top Depth:	18.4	**Material Moisture:**	
Bottom Depth:	21.6	**Material Texture:**	
Material Color:	Red-Brown	**Non Geo Mat Type:**	
Material 1:	Silt	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	

Gsc Material Description:
Stratum Description: Silt. Very dense. Brown red **Note: Many records provided by the department have a truncated [Stratum Description] field.

Geology Stratum ID:	220433365	**Mat Consistency:**	Stiff
Top Depth:	9.3	**Material Moisture:**	
Bottom Depth:	9.9	**Material Texture:**	
Material Color:	Brown	**Non Geo Mat Type:**	

Material 1:	Silt	**Geologic Formation:**	
Material 2:	Clayey	**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	

Gsc Material Description:
Stratum Description: clayey silt. Stiff. Brown **Note: Many records provided by the department have a truncated [Stratum Description] field.

Geology Stratum ID:	220433367	**Mat Consistency:**	Stiff
Top Depth:	16.9	**Material Moisture:**	
Bottom Depth:	18.4	**Material Texture:**	
Material Color:	Grey-Brown	**Non Geo Mat Type:**	
Material 1:	Silt	**Geologic Formation:**	
Material 2:	Clayey	**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	

Gsc Material Description:
Stratum Description: Clayey silt. Stiff. Grey brown **Note: Many records provided by the department have a truncated [Stratum Description] field.

Geology Stratum ID:	220433362	**Mat Consistency:**	
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	.6	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Topsoil	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	

Gsc Material Description:
Stratum Description: Topsoil **Note: Many records provided by the department have a truncated [Stratum Description] field.

Geology Stratum ID:	220433364	**Mat Consistency:**	Very Dense
Top Depth:	6.7	**Material Moisture:**	
Bottom Depth:	9.3	**Material Texture:**	
Material Color:	Red-Brown	**Non Geo Mat Type:**	
Material 1:	Silt	**Geologic Formation:**	
Material 2:	Fine Sand	**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	

Gsc Material Description:
Stratum Description: Silt with fine sand. Very dense. Brown red **Note: Many records provided by the department have a truncated [Stratum Description] field.

Geology Stratum ID:	220433370	**Mat Consistency:**	
Top Depth:	22.3	**Material Moisture:**	
Bottom Depth:	24.1	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Bedrock	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	

Gsc Material Description:
Stratum Description: Bedrock **Note: Many records provided by the department have a truncated [Stratum Description] field.

Geology Stratum ID:	220433363	**Mat Consistency:**	Compact
Top Depth:	.6	**Material Moisture:**	
Bottom Depth:	6.7	**Material Texture:**	
Material Color:	Brown	**Non Geo Mat Type:**	Fill-Granular
Material 1:	Sand	**Geologic Formation:**	
Material 2:	Silty	**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	

Gsc Material Description:
Stratum Description: Fill material. Silty sand. Compact to very dense. Brown **Note: Many records provided by the department have a truncated [Stratum Description] field.

Geology Stratum ID:	220433366	**Mat Consistency:**	Very Dense
Top Depth:	9.9	**Material Moisture:**	
Bottom Depth:	16.9	**Material Texture:**	
Material Color:	Red-Brown	**Non Geo Mat Type:**	
Material 1:	Silt	**Geologic Formation:**	
Material 2:	Clay	**Geologic Group:**	
Material 3:	Fine Sand	**Geologic Period:**	
Material 4:		**Depositional Gen:**	

Gsc Material Description:
Stratum Description: Silt with traces of clay and fine sand. Very dense to compact. Brown red **Note: Many records provided by the department have a truncated [Stratum Description] field.

Geology Stratum ID:	220433369	**Mat Consistency:**	
Top Depth:	21.6	**Material Moisture:**	
Bottom Depth:	22.3	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Rock	**Geologic Formation:**	
Material 2:	Boulders	**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	

Gsc Material Description:
Stratum Description: Weathered rock or boulders **Note: Many records provided by the department have a truncated [Stratum Description] field.

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7 **1 of 1** **W/0.0** **185.8 / -15.04** **ON** **BORE**

Borehole ID:	603363	**Inclin FLG:**	No
OGF ID:	215505174	**SP Status:**	Initial Entry
Status:		**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:	Geotechnical/Geological Investigation	**Primary Name:**	
Completion Date:	JAN-1962	**Municipality:**	
Static Water Level:		**Lot:**	
Primary Water Use:	Not Used	**Township:**	
Sec. Water Use:		**Latitude DD:**	43.089271
Total Depth m:	24.1	**Longitude DD:**	-79.115093
Depth Ref:	Ground Surface	**UTM Zone:**	17
Depth Elev:		**Easting:**	653415
Drill Method:	Diamond Drill	**Northing:**	4772453
Orig Ground Elev m:	202	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Not Applicable
DEM Ground Elev m:	184		

Concession:
Location D:
Survey D:
Comments:

Borehole Geology Stratum

Geology Stratum ID:	218361026	**Mat Consistency:**	Compact
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	6.7	**Material Texture:**	
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Fill	**Geologic Formation:**	
Material 2:	Sand	**Geologic Group:**	
Material 3:	Silt	**Geologic Period:**	
Material 4:		**Depositional Gen:**	fill

Gsc Material Description:
Stratum Description: FILL,SAND,SILT. BROWN,COMPACT.

Geology Stratum ID:	218361028	**Mat Consistency:**	Stiff
Top Depth:	9.3	**Material Moisture:**	
Bottom Depth:	9.9	**Material Texture:**	

Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Silt	**Geologic Formation:**	
Material 2:	Clay	**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	

Gsc Material Description:
Stratum Description: SILT,CLAY. BROWN,STIFF.

Geology Stratum ID:	218361033	**Mat Consistency:**	
Top Depth:	22.3	**Material Moisture:**	
Bottom Depth:	24.1	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Bedrock	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	

Gsc Material Description:
Stratum Description: BEDROCK. 005 0000006000220079 **Note: Many records provided by the department have a truncated [Stratum Description] field.

Geology Stratum ID:	218361029	**Mat Consistency:**	Dense
Top Depth:	9.9	**Material Moisture:**	
Bottom Depth:	16.9	**Material Texture:**	
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Silt	**Geologic Formation:**	
Material 2:	Clay	**Geologic Group:**	
Material 3:	Sand	**Geologic Period:**	
Material 4:		**Depositional Gen:**	

Gsc Material Description:
Stratum Description: SILT,CLAY,SAND. BROWN,VERY DENSE.

Geology Stratum ID:	218361032	**Mat Consistency:**	
Top Depth:	21.6	**Material Moisture:**	
Bottom Depth:	22.3	**Material Texture:**	
Material Color:	Red	**Non Geo Mat Type:**	
Material 1:	Bedrock	**Geologic Formation:**	
Material 2:	Boulders	**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	

Gsc Material Description:
Stratum Description: BEDROCK,BOULDERS. WEATHERED.

Geology Stratum ID:	218361027	**Mat Consistency:**	Dense
Top Depth:	6.7	**Material Moisture:**	
Bottom Depth:	9.3	**Material Texture:**	
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Silt	**Geologic Formation:**	
Material 2:	Sand	**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	

Gsc Material Description:
Stratum Description: SILT,SAND. BROWN,VERY DENSE.

Geology Stratum ID:	218361030	**Mat Consistency:**	Stiff
Top Depth:	16.9	**Material Moisture:**	
Bottom Depth:	18.4	**Material Texture:**	
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Silt	**Geologic Formation:**	
Material 2:	Clay	**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	

Gsc Material Description:
Stratum Description: SILT,CLAY. BROWN,STIFF.

Geology Stratum ID:	218361031	**Mat Consistency:**	Dense
Top Depth:	18.4	**Material Moisture:**	

Bottom Depth:	21.6	**Material Texture:**	
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Silt	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	SILT. BROWN,VERY DENSE.		

Source

Source Type:	Data Survey	**Source Appl:**	Spatial/Tabular
Source Orig:	Geological Survey of Canada	**Source Iden:**	1
Source Date:	1956-1972	**Scale or Res:**	Varies
Confidence:	H	**Horizontal:**	NAD27
Observatio:		**Verticalda:**	Mean Average Sea Level
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Details:	File: NIAGARA.txt RecordID: 007110 NTS_Sheet: 30M03A		
Confiden 1:	Logged by professional. Exact and complete description of material and properties.		

Source List

Source Identifier:	1	**Horizontal Datum:**	NAD27
Source Type:	Data Survey	**Vertical Datum:**	Mean Average Sea Level
Source Date:	1956-1972	**Projection Name:**	Universal Transverse Mercator
Scale or Resolution:	Varies		
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Originators:	Geological Survey of Canada		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
8	1 of 1	W/0.0	176.6 / -24.20	NIAGARA, REGIONAL MUNICIPALITY LUNDY'S LANE CROSSING OF THE HYDRO CANAL WATER SUPPLY SYSTEM NIAGARA FALLS CITY ON	SPL

Ref No:	110768	**Discharger Report:**	
Site No:		**Material Group:**	
Incident Dt:	3/10/1995	**Health/Env Conseq:**	
Year:		**Client Type:**	
Incident Cause:	PIPE/HOSE LEAK	**Sector Type:**	
Incident Event:		**Agency Involved:**	
Contaminant Code:		**Nearest Watercourse:**	
Contaminant Name:		**Site Address:**	
Contaminant Limit 1:		**Site District Office:**	
Contam Limit Freq 1:		**Site Postal Code:**	
Contaminant UN No 1:		**Site Region:**	
Environment Impact:	POSSIBLE	**Site Municipality:**	18101
Nature of Impact:	Fish kill	**Site Lot:**	
Receiving Medium:	WATER	**Site Conc:**	
Receiving Env:		**Northing:**	
MOE Response:		**Easting:**	
Dt MOE Arvl on Scn:		**Site Geo Ref Accu:**	
MOE Reported Dt:	3/11/1995	**Site Map Datum:**	
Dt Document Closed:		**SAC Action Class:**	
Incident Reason:	MATERIAL FAILURE	**Source Type:**	
Site Name:			
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	NIAGARA R.M.: POTABLE WA-TER TO CANAL FROM BROKEN 20" WATERMAIN.		
Contaminant Qty:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
10	1 of 1	W/0.0	190.7 / -10.12	ON	BORE

Borehole ID:	857756	**Inclin FLG:**	No
OGF ID:	215577754	**SP Status:**	Initial Entry
Status:	Decommissioned	**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:	Geotechnical/Geological Investigation	**Primary Name:**	
Completion Date:	26-JAN-1962	**Municipality:**	
Static Water Level:		**Lot:**	
Primary Water Use:		**Township:**	
Sec. Water Use:		**Latitude DD:**	43.089073
Total Depth m:	17.8	**Longitude DD:**	-79.115922
Depth Ref:	Ground Surface	**UTM Zone:**	17
Depth Elev:		**Easting:**	653348
Drill Method:	Hollow stem auger	**Northing:**	4772429
Orig Ground Elev m:	195	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Within 10 metres
DEM Ground Elev m:	196		

Concession:
Location D: Widening of Structure on Lundy's Lane, Hwy. 3A & 20 over H.E.P.C (Hydro Electric Power Commission's) Canal, Niagara Falls, County of Stamford, District #4
Survey D:
Comments:

Borehole Geology Stratum

Geology Stratum ID:	220433371	**Mat Consistency:**	
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	.6	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Fill	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	

Gsc Material Description:
Stratum Description: Fill **Note: Many records provided by the department have a truncated [Stratum Description] field.

Geology Stratum ID:	220433373	**Mat Consistency:**	
Top Depth:	16.5	**Material Moisture:**	
Bottom Depth:	17.8	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Bedrock	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	

Gsc Material Description:
Stratum Description: Bedrock **Note: Many records provided by the department have a truncated [Stratum Description] field.

Geology Stratum ID:	220433372	**Mat Consistency:**	Very Dense
Top Depth:	.6	**Material Moisture:**	
Bottom Depth:	16.5	**Material Texture:**	
Material Color:	Red-Brown	**Non Geo Mat Type:**	
Material 1:	Silt	**Geologic Formation:**	
Material 2:	Fine Sand	**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	

Gsc Material Description:
Stratum Description: Silt with traces of fine sand. Very dense. Brown red **Note: Many records provided by the department have a truncated [Stratum Description] field.

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
11	1 of 1	W/0.0	193.7 / -7.10	ON	BORE

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Borehole ID:	857757	**Inclin FLG:**	No
OGF ID:	215577755	**SP Status:**	Initial Entry
Status:	Decommissioned	**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:	Geotechnical/Geological Investigation	**Primary Name:**	
Completion Date:	29-JAN-1962	**Municipality:**	
Static Water Level:		**Lot:**	
Primary Water Use:		**Township:**	
Sec. Water Use:		**Latitude DD:**	43.089298
Total Depth m:	7.9	**Longitude DD:**	-79.115927
Depth Ref:	Ground Surface	**UTM Zone:**	17
Depth Elev:		**Easting:**	653347
Drill Method:	Hollow stem auger	**Northing:**	4772454
Orig Ground Elev m:	196	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Within 10 metres
DEM Ground Elev m:	196		

Concession:
Location D: Widening of Structure on Lundy's Lane, Hwy. 3A & 20 over H.E.P.C (Hydro Electric Power Commission's) Canal, Niagara Falls, County of Stamford, District #4
Survey D:
Comments:

Borehole Geology Stratum

Geology Stratum ID:	220433375	**Mat Consistency:**	Compact
Top Depth:	.6	**Material Moisture:**	
Bottom Depth:	7.9	**Material Texture:**	
Material Color:	Red-Brown	**Non Geo Mat Type:**	
Material 1:	Silt	**Geologic Formation:**	
Material 2:	Fine Sand	**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	

Gsc Material Description:
Stratum Description: Silty with traces of fine sand. Compact to very dense. Brown red **Note: Many records provided by the department have a truncated [Stratum Description] field.

Geology Stratum ID:	220433374	**Mat Consistency:**	
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	.6	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Fill	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	

Gsc Material Description:
Stratum Description: Fill **Note: Many records provided by the department have a truncated [Stratum Description] field.

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
12	1 of 1	W/0.0	193.7 / -7.10	ON	BORE

Borehole ID:	603365	**Inclin FLG:**	No
OGF ID:	215505176	**SP Status:**	Initial Entry
Status:		**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:	Geotechnical/Geological Investigation	**Primary Name:**	
Completion Date:	JAN-1962	**Municipality:**	
Static Water Level:		**Lot:**	
Primary Water Use:	Not Used	**Township:**	
Sec. Water Use:		**Latitude DD:**	43.089286
Total Depth m:	7.9	**Longitude DD:**	-79.115952
Depth Ref:	Ground Surface	**UTM Zone:**	17
Depth Elev:		**Easting:**	653345
Drill Method:	Diamond Drill	**Northing:**	4772453
Orig Ground Elev m:	196	**Location Accuracy:**	

Elev Reliabil Note: **Accuracy:** Not Applicable
DEM Ground Elev m: 197
Concession:
Location D:
Survey D:
Comments:

Borehole Geology Stratum

Geology Stratum ID: 218361037 **Mat Consistency:**
Top Depth: 0 **Material Moisture:**
Bottom Depth: .6 **Material Texture:**
Material Color: **Non Geo Mat Type:**
Material 1: Fill **Geologic Formation:**
Material 2: **Geologic Group:**
Material 3: **Geologic Period:**
Material 4: **Depositional Gen:** fill
Gsc Material Description:
Stratum Description: FILL.

Geology Stratum ID: 218361038 **Mat Consistency:** Dense
Top Depth: .6 **Material Moisture:**
Bottom Depth: 7.9 **Material Texture:**
Material Color: Brown **Non Geo Mat Type:**
Material 1: Silt **Geologic Formation:**
Material 2: Sand **Geologic Group:**
Material 3: **Geologic Period:**
Material 4: **Depositional Gen:**
Gsc Material Description:
Stratum Description: SILT,SAND. BROWN,VERY DENSE. 020 DENSE.

Source

Source Type: Data Survey **Source Appl:** Spatial/Tabular
Source Orig: Geological Survey of Canada **Source Iden:** 1
Source Date: 1956-1972 **Scale or Res:** Varies
Confidence: H **Horizontal:** NAD27
Observatio: **Verticalda:** Mean Average Sea Level
Source Name: Urban Geology Automated Information System (UGAIS)
Source Details: File: NIAGARA.txt RecordID: 007130 NTS_Sheet: 30M03A
Confiden 1: Logged by professional. Exact and complete description of material and properties.

Source List

Source Identifier: 1 **Horizontal Datum:** NAD27
Source Type: Data Survey **Vertical Datum:** Mean Average Sea Level
Source Date: 1956-1972 **Projection Name:** Universal Transverse Mercator
Scale or Resolution: Varies
Source Name: Urban Geology Automated Information System (UGAIS)
Source Originators: Geological Survey of Canada

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
19	1 of 2	W/0.0	201.2 / 0.34	R.M. OF NIAGARA - LOTS 132 & 141 LUNDY'S LANE/ROYAL MANOR DR. NIAGARA FALLS CITY ON	CA

Certificate #: 7-0681-92-
Application Year: 92
Issue Date: 7/16/1992
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

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19 | ***2 of 2*** | ***W/0.0*** | ***201.2 / 0.34*** | ***NIAGARA FALLS CITY***
ROYAL MANOR DR/LUNDY'S LANE
NIAGARA FALLS CITY ON | ***CA***

Certificate #: 3-1142-96-
Application Year: 96
Issue Date: 10/4/1996
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

---

26 | ***1 of 1*** | ***W/0.0*** | ***194.1 / -6.71*** | ***ON*** | ***BORE***

Borehole ID:	603285	***Inclin FLG:***	No
OGF ID:	215505097	***SP Status:***	Initial Entry
Status:		***Surv Elev:***	No
Type:	Borehole	***Piezometer:***	No
Use:	Geotechnical/Geological Investigation	***Primary Name:***	
Completion Date:	JAN-1962	***Municipality:***	
Static Water Level:		***Lot:***	
Primary Water Use:	Not Used	***Township:***	
Sec. Water Use:		***Latitude DD:***	43.089242
Total Depth m:	7.9	***Longitude DD:***	-79.11878
Depth Ref:	Ground Surface	***UTM Zone:***	17
Depth Elev:		***Easting:***	653115
Drill Method:	Diamond Drill	***Northing:***	4772443
Orig Ground Elev m:	195	***Location Accuracy:***	
Elev Reliabil Note:		***Accuracy:***	Not Applicable
DEM Ground Elev m:	194		

Concession:
Location D:
Survey D:
Comments:

Borehole Geology Stratum

Geology Stratum ID:	218360769	***Mat Consistency:***	Loose
Top Depth:	0	***Material Moisture:***	
Bottom Depth:	7.9	***Material Texture:***	
Material Color:		***Non Geo Mat Type:***	
Material 1:	Silt	***Geologic Formation:***	
Material 2:	Sand	***Geologic Group:***	
Material 3:	Gravel	***Geologic Period:***	
Material 4:		***Depositional Gen:***	

Gsc Material Description:
Stratum Description: SILT,SAND,GRAVEL. LOOSE. 018 00000004 **Note: Many records provided by the department have a truncated

[Stratum Description] field.

Source

Source Type:	Data Survey	***Source Appl:***	Spatial/Tabular
Source Orig:	Geological Survey of Canada	***Source Iden:***	1
Source Date:	1956-1972	***Scale or Res:***	Varies
Confidence:	H	***Horizontal:***	NAD27
Observatio:		***Verticalda:***	Mean Average Sea Level

Source Name: Urban Geology Automated Information System (UGAIS)
Source Details: File: NIAGARA.txt RecordID: 005880 NTS_Sheet: 30M03A
Confiden 1: Logged by professional. Exact and complete description of material and properties.

Source List

Source Identifier:	1	***Horizontal Datum:***	NAD27
Source Type:	Data Survey	***Vertical Datum:***	Mean Average Sea Level
Source Date:	1956-1972	***Projection Name:***	Universal Transverse Mercator
Scale or Resolution:	Varies		

Source Name: Urban Geology Automated Information System (UGAIS)
Source Originators: Geological Survey of Canada

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27 | ***1 of 1*** | ***W/0.0*** | ***193.9 / -6.95*** | ***JLA FACTORY OUTLET HOLDINGS LTD.***
LUNDY'S LANE/RR #51/QEW, SWM
NIAGARA FALLS ON | ***CA***

Certificate #: 3-0220-98-
Application Year: 98
Issue Date: 4/3/1998
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

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34 | ***1 of 1*** | ***W/0.0*** | ***195.6 / -5.20*** | ***JLA FACTORY OUTLET HOLDINGS LTD.***
LUNDY'S LANE/E.OF BELMONT AVE.
NIAGARA FALLS ON | ***CA***

Certificate #: 7-0319-98-
Application Year: 98
Issue Date: 5/8/1998
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

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38 | ***1 of 1*** | ***E/0.0*** | ***204.8 / 4.00*** | ***6666 Lundys Lane*** | ***EHS***

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
				Niagara Falls ON	

Order No:	20121017011	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	RSC Report (Urban)	**Client Prov/State:**	ON
Report Date:	23-OCT-12	**Search Radius (km):**	.3
Date Received:	17-OCT-12	**X:**	-79.106462
Previous Site Name:		**Y:**	43.089243
Lot/Building Size:			
Additional Info Ordered:			

40	1 of 8	W/0.0	194.8 / -6.00	CORP OF CITY OF NIAGARA FALLS 7467 LUNDYS LA NIAGARA FALLS ON L2H 1G9	PRT

Location ID:	9842
Type:	private
Expiry Date:	
Capacity (L):	4546.00
Licence #:	0001056946

40	2 of 8	W/0.0	194.8 / -6.00	CORP OF CITY OF NIAGARA FALLS 7467 LUNDYS LA NIAGARA FALLS ON	FSTH

License Issue Date:	1/22/1991
Tank Status:	Licensed
Tank Status As Of:	August 2007
Operation Type:	Private Fuel Outlet
Facility Type:	Gasoline Station - Self Serve

--Details--

Status:	Active
Year of Installation:	1990
Corrosion Protection:	
Capacity:	2273
Tank Fuel Type:	Liquid Fuel Single Wall UST - Diesel

Status:	Active
Year of Installation:	1990
Corrosion Protection:	
Capacity:	2273
Tank Fuel Type:	Liquid Fuel Single Wall UST - Gasoline

40	3 of 8	W/0.0	194.8 / -6.00	CORP OF CITY OF NIAGARA FALLS 7467 LUNDY'S LA NIAGARA FALLS ON	FSTH

License Issue Date:	1/22/1991
Tank Status:	Licensed
Tank Status As Of:	December 2008
Operation Type:	Private Fuel Outlet
Facility Type:	Gasoline Station - Self Serve

--Details--

Status:	Active
Year of Installation:	1990
Corrosion Protection:	

Capacity: 2273
Tank Fuel Type: Liquid Fuel Single Wall UST - Diesel

Status: Active
Year of Installation: 1990
Corrosion Protection:
Capacity: 2273
Tank Fuel Type: Liquid Fuel Single Wall UST - Gasoline

---

40 | **4 of 8** | **W/0.0** | **194.8 / -6.00** | **CITY OF NIAGARA FALLS**
7467 LUNDY'S LANE NIAGARA FALLS L2H 1G9
ON CA
ON | **FST**

Instance No:	10874988	**Manufacturer:**	
Status:		**Serial No:**	
Cont Name:		**Ulc Standard:**	
Instance Type:	FS Liquid Fuel Tank	**Quantity:**	
Item:	FS LIQUID FUEL TANK	**Unit of Measure:**	
Item Description:	FS Liquid Fuel Tank	**Fuel Type:**	Gasoline
Tank Type:	Single Wall UST	**Fuel Type2:**	NULL
Install Date:	1/18/1991	**Fuel Type3:**	NULL
Install Year:	1990	**Piping Steel:**	
Years in Service:		**Piping Galvanized:**	
Model:	NULL	**Tanks Single Wall St:**	
Description:		**Piping Underground:**	
Capacity:	2273	**Num Underground:**	
Tank Material:	Fiberglass (FRP)	**Panam Related:**	
Corrosion Protect:		**Panam Venue:**	
Overfill Protect:			

Facility Type: FS Liquid Fuel Tank
Parent Facility Type: Fuels Safety Private Fuel Outlet - Self Serve
Facility Location:
Device Installed Location: 7467 LUNDY'S LANE NIAGARA FALLS L2H 1G9 ON CA

Fuel Storage Tank Details

Owner Account Name: CITY OF NIAGARA FALLS

Liquid Fuel Tank Details

Overfill Protection:
Owner Account Name: CITY OF NIAGARA FALLS
Item: FS LIQUID FUEL TANK

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40 | **5 of 8** | **W/0.0** | **194.8 / -6.00** | **CITY OF NIAGARA FALLS**
7467 LUNDY'S LANE NIAGARA FALLS L2H 1G9
ON CA
ON | **FST**

Instance No:	10874973	**Manufacturer:**	
Status:		**Serial No:**	
Cont Name:		**Ulc Standard:**	
Instance Type:	FS Liquid Fuel Tank	**Quantity:**	
Item:	FS LIQUID FUEL TANK	**Unit of Measure:**	
Item Description:	FS Liquid Fuel Tank	**Fuel Type:**	Diesel
Tank Type:	Single Wall UST	**Fuel Type2:**	NULL
Install Date:	1/18/1991	**Fuel Type3:**	NULL
Install Year:	1990	**Piping Steel:**	
Years in Service:		**Piping Galvanized:**	
Model:	NULL	**Tanks Single Wall St:**	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Description:
Capacity: 2273
Tank Material: Fiberglass (FRP)
Corrosion Protect:
Overfill Protect:
Piping Underground:
Num Underground:
Panam Related:
Panam Venue:
Facility Type: FS Liquid Fuel Tank
Parent Facility Type: Fuels Safety Private Fuel Outlet - Self Serve
Facility Location:
Device Installed Location: 7467 LUNDY'S LANE NIAGARA FALLS L2H 1G9 ON CA

Fuel Storage Tank Details

Owner Account Name: CITY OF NIAGARA FALLS

Liquid Fuel Tank Details

Overfill Protection:
Owner Account Name: CITY OF NIAGARA FALLS
Item: FS LIQUID FUEL TANK

40	6 of 8	W/0.0	194.8 / -6.00	Niagara Falls, Corpof the City of 7467 Lundy's Lane Niagara Falls ON L2H 1G9	GEN

Generator No: ON4611359
Status: Registered
Approval Years: As of Dec 2018
Contam. Facility:
MHSW Facility:
SIC Code:
SIC Description:
PO Box No:
Country: Canada
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 221 I
Waste Class Desc: Light fuels

40	7 of 8	W/0.0	194.8 / -6.00	Niagara Falls, Corpof the City of 7467 Lundy's Lane Niagara Falls ON L2H 1G9	GEN

Generator No: ON4611359
Status: Registered
Approval Years: As of Jul 2020
Contam. Facility:
MHSW Facility:
SIC Code:
SIC Description:
PO Box No:
Country: Canada
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 221 I
Waste Class Desc: Light fuels

40	8 of 8	W/0.0	194.8 / -6.00	Niagara Falls, Corpof the City of 7467 Lundy's Lane Niagara Falls ON L2H 1G9	GEN

Generator No: ON4611359
Status: Registered
PO Box No:
Country: Canada

Approval Years:	As of Aug 2021	**Choice of Contact:**	
Contam. Facility:		**Co Admin:**	
MHSW Facility:		**Phone No Admin:**	
SIC Code:			
SIC Description:			

Detail(s)

Waste Class:	221 I
Waste Class Desc:	Light fuels

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45 **1 of 1** **E/0.0** **205.1 / 4.31** **NIAGARA FALLS CITY BYNG AVE/LUNDY'S LANE NIAGARA FALLS ON** **CA**

Certificate #:	7-0170-98-
Application Year:	98
Issue Date:	3/25/1998
Approval Type:	Municipal water
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

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2 **1 of 1** **WSW/3.2** **202.0 / 1.13** **ON** **BORE**

Borehole ID:	603362	**Inclin FLG:**	No
OGF ID:	215505173	**SP Status:**	Initial Entry
Status:		**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:	Geotechnical/Geological Investigation	**Primary Name:**	
Completion Date:	JAN-1962	**Municipality:**	
Static Water Level:		**Lot:**	
Primary Water Use:	Not Used	**Township:**	
Sec. Water Use:		**Latitude DD:**	43.089071
Total Depth m:	12.6	**Longitude DD:**	-79.11387
Depth Ref:	Ground Surface	**UTM Zone:**	17
Depth Elev:		**Easting:**	653515
Drill Method:	Diamond Drill	**Northing:**	4772433
Orig Ground Elev m:	203	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Not Applicable
DEM Ground Elev m:	202		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218361024	**Mat Consistency:**	Compact
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	5.8	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Fill	**Geologic Formation:**	
Material 2:	Sand	**Geologic Group:**	

Material 3: Silt
Material 4:
Gsc Material Description:
Stratum Description: FILL,SAND,SILT. COMPACT.

Geology Stratum ID: 218361025
Top Depth: 5.8
Bottom Depth: 12.6
Material Color: Brown
Material 1: Silt
Material 2:
Material 3:
Material 4:
Gsc Material Description:
Stratum Description: SILT. BROWN,VERY DENSE. 00000034 GREY, **Note: Many records provided by the department have a truncated [Stratum Description] field.

Geologic Period:
Depositional Gen: fill

Mat Consistency: Dense
Material Moisture:
Material Texture:
Non Geo Mat Type:
Geologic Formation:
Geologic Group:
Geologic Period:
Depositional Gen:

Source

Source Type: Data Survey
Source Orig: Geological Survey of Canada
Source Date: 1956-1972
Confidence: H
Observatio:
Source Name: Urban Geology Automated Information System (UGAIS)
Source Details: File: NIAGARA.txt RecordID: 007100 NTS_Sheet: 30M03A
Confiden 1: Logged by professional. Exact and complete description of material and properties.

Source Appl: Spatial/Tabular
Source Iden: 1
Scale or Res: Varies
Horizontal: NAD27
Verticalda: Mean Average Sea Level

Source List

Source Identifier: 1
Source Type: Data Survey
Source Date: 1956-1972
Scale or Resolution: Varies
Source Name: Urban Geology Automated Information System (UGAIS)
Source Originators: Geological Survey of Canada

Horizontal Datum: NAD27
Vertical Datum: Mean Average Sea Level
Projection Name: Universal Transverse Mercator

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3 ***1 of 2*** ***ENE/8.6*** ***200.2 / -0.65*** ***7009 Lundy's Lane Niagara Falls ON L2G 1W1*** ***EHS***

Order No: 20051229042
Status: C
Report Type: Complete Report
Report Date: 1/9/2006
Date Received: 12/29/2005
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): 0.25
X: -79.112626
Y: 43.089401

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3 ***2 of 2*** ***ENE/8.6*** ***200.2 / -0.65*** ***7009 Lundy's Lane Niagara Falls ON L2G 1W1*** ***EHS***

Order No: 20080521015
Status: C
Report Type: Basic Report
Report Date: 5/29/2008
Date Received: 5/21/2008
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:

Nearest Intersection: Lundy's Ln and Brookfield Ave
Municipality:
Client Prov/State: ON
Search Radius (km): 0.25
X: -79.112761
Y: 43.089543

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
4	1 of 1	ENE/16.9	199.8 / -1.03	6981 LUNDY'S LANE NIAGARA FALLS ON L2G 1W1	HINC

External File Num: FS INC 0704-01547
Fuel Occurrence Type: CO Release
Date of Occurrence: 2/6/2007
Fuel Type Involved: Natural Gas
Status Desc: Completed - Causal Analysis(End)
Job Type Desc: Incident/Near-Miss Occurrence (FS)
Oper. Type Involved: Commercial (e.g. restaurant, business unit, etc)
Service Interruptions: No
Property Damage: Yes
Fuel Life Cycle Stage: Utilization
Root Cause: Root Cause: Equipment/Material/Component:Yes Procedures:No Maintenance:No Design:Yes Training: No Management:No Human Factors:No
Reported Details: Facility type not specified.
Fuel Category: Gaseous Fuel
Occurrence Type: Near-miss
Affiliation: Safety Authorities (MOL, ESA, Insurers, etc.)
County Name: Niagara
Approx. Quant. Rel:
Nearby body of water:
Enter Drainage Syst.:
Approx. Quant. Unit:
Environmental Impact:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
9	1 of 1	E/11.1	200.4 / -0.48	6941 Lundy's Lane Niagara Falls ON L2G 1V8	EHS

Order No: 21042100097
Status: C
Report Type: Standard Report
Report Date: 26-APR-21
Date Received: 21-APR-21
Previous Site Name:
Lot/Building Size:
Additional Info Ordered: Fire Insur. Maps and/or Site Plans
Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -79.1113003
Y: 43.0894451

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
13	1 of 1	W/5.5	193.9 / -6.93	ON	BORE

Borehole ID: 603364
OGF ID: 215505175
Status:
Type: Borehole
Use: Geotechnical/Geological Investigation
Completion Date: JAN-1962
Static Water Level:
Primary Water Use: Not Used
Sec. Water Use:
Total Depth m: 17.8
Depth Ref: Ground Surface
Depth Elev:
Drill Method: Diamond Drill
Orig Ground Elev m: 195
Elev Reliabil Note:
DEM Ground Elev m: 197
Concession:
Location D:
Survey D:
Comments:
Inclin FLG: No
SP Status: Initial Entry
Surv Elev: No
Piezometer: No
Primary Name:
Municipality:
Lot:
Township:
Latitude DD: 43.089016
Longitude DD: -79.115961
UTM Zone: 17
Easting: 653345
Northing: 4772423
Location Accuracy:
Accuracy: Not Applicable

Borehole Geology Stratum

Geology Stratum ID:	218361034	***Mat Consistency:***	
Top Depth:	0	***Material Moisture:***	
Bottom Depth:	.6	***Material Texture:***	
Material Color:		***Non Geo Mat Type:***	
Material 1:	Fill	***Geologic Formation:***	
Material 2:		***Geologic Group:***	
Material 3:		***Geologic Period:***	
Material 4:		***Depositional Gen:***	fill
Gsc Material Description:			
Stratum Description:	FILL.		

Geology Stratum ID:	218361035	***Mat Consistency:***	Dense
Top Depth:	.6	***Material Moisture:***	
Bottom Depth:	16.5	***Material Texture:***	
Material Color:	Brown	***Non Geo Mat Type:***	
Material 1:	Silt	***Geologic Formation:***	
Material 2:	Sand	***Geologic Group:***	
Material 3:		***Geologic Period:***	
Material 4:		***Depositional Gen:***	
Gsc Material Description:			
Stratum Description:	SILT,SAND. BROWN,VERY DENSE.		

Geology Stratum ID:	218361036	***Mat Consistency:***	Dense
Top Depth:	16.5	***Material Moisture:***	
Bottom Depth:	17.8	***Material Texture:***	
Material Color:		***Non Geo Mat Type:***	
Material 1:	Bedrock	***Geologic Formation:***	
Material 2:		***Geologic Group:***	
Material 3:		***Geologic Period:***	
Material 4:		***Depositional Gen:***	
Gsc Material Description:			
Stratum Description:	BEDROCK. VERY DENSE.		

Source

Source Type:	Data Survey	***Source Appl:***	Spatial/Tabular
Source Orig:	Geological Survey of Canada	***Source Iden:***	1
Source Date:	1956-1972	***Scale or Res:***	Varies
Confidence:	H	***Horizontal:***	NAD27
Observatio:		***Verticalda:***	Mean Average Sea Level
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Details:	File: NIAGARA.txt RecordID: 007120 NTS_Sheet: 30M03A		
Confiden 1:	Logged by professional. Exact and complete description of material and properties.		

Source List

Source Identifier:	1	***Horizontal Datum:***	NAD27
Source Type:	Data Survey	***Vertical Datum:***	Mean Average Sea Level
Source Date:	1956-1972	***Projection Name:***	Universal Transverse Mercator
Scale or Resolution:	Varies		
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Originators:	Geological Survey of Canada		

14	1 of 2	E/20.4	201.4 / 0.56	6889 Lundy's Lane Niagara Falls ON L2G 1V7	EHS

Order No:	20070104031	***Nearest Intersection:***	Lundy's Lane & Dorchester
Status:	C	***Municipality:***	Niagara
Report Type:	CAN - Complete Report	***Client Prov/State:***	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Report Date:	1/15/2007	**Search Radius (km):**	0.25
Date Received:	1/4/2007	**X:**	-79.110336
Previous Site Name:		**Y:**	43.089501
Lot/Building Size:			
Additional Info Ordered:	Fire Insur. Maps And /or Site Plans; Title Search		

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14 **2 of 2** **E/20.4** **201.4 / 0.56** **6889 Lundys Lane**
Niagara Falls ON L2G1V7 **EHS**

Order No:	20140416066	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Standard Report	**Client Prov/State:**	ON
Report Date:	28-APR-14	**Search Radius (km):**	.25
Date Received:	16-APR-14	**X:**	-79.110338
Previous Site Name:		**Y:**	43.089544
Lot/Building Size:			
Additional Info Ordered:	Fire Insur. Maps and/or Site Plans		

---

15 **1 of 1** **W/30.0** **200.0 / -0.80** **ON** **BORE**

Borehole ID:	607284	**Inclin FLG:**	No
OGF ID:	215509088	**SP Status:**	Initial Entry
Status:		**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:	Geotechnical/Geological Investigation	**Primary Name:**	
Completion Date:	OCT-1971	**Municipality:**	
Static Water Level:		**Lot:**	
Primary Water Use:	Not Used	**Township:**	
Sec. Water Use:		**Latitude DD:**	43.089566
Total Depth m:	3	**Longitude DD:**	-79.116558
Depth Ref:	Ground Surface	**UTM Zone:**	17
Depth Elev:		**Easting:**	653295
Drill Method:	Power auger	**Northing:**	4772483
Orig Ground Elev m:	196	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Not Applicable
DEM Ground Elev m:	200		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218378125	**Mat Consistency:**	Dense
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	3	**Material Texture:**	
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Silt	**Geologic Formation:**	
Material 2:	Sand	**Geologic Group:**	
Material 3:	Clay	**Geologic Period:**	Quaternary
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	SILT,SAND,CLAY. BROWN,DENSE,SEAMS, AGE QUATERNARY. 005 00000040 MO **Note: Many records provided by the department have a truncated [Stratum Description] field.		

Source

Source Type:	Data Survey	**Source Appl:**	Spatial/Tabular
Source Orig:	Geological Survey of Canada	**Source Iden:**	1
Source Date:	1956-1972	**Scale or Res:**	Varies

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Confidence:	H	**Horizontal:**	NAD27
Observatio:		**Verticalda:**	Mean Average Sea Level
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Details:	File: NIAGARA.txt RecordID: 059540 NTS_Sheet: 30M03A		
Confiden 1:	Logged by professional. Exact and complete description of material and properties.		

Source List

Source Identifier:	1	**Horizontal Datum:**	NAD27
Source Type:	Data Survey	**Vertical Datum:**	Mean Average Sea Level
Source Date:	1956-1972	**Projection Name:**	Universal Transverse Mercator
Scale or Resolution:	Varies		
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Originators:	Geological Survey of Canada		

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16 | ***1 of 5*** | ***E/27.7*** | ***202.3 / 1.43*** | ***NIAGARA FALLS BREWING COMPANY
6863 LUNDY'S LANE
NIAGARA FALLS CITY ON L2G 1V7*** | ***CA***

Certificate #:	8-2327-88-
Application Year:	88
Issue Date:	5/8/1989
Approval Type:	Industrial air
Status:	Approved in 1989
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	MICROBREWERY
Contaminants:	Nitrogen Oxides, Odour/Fumes, Water Vapour
Emission Control:	No Controls

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16 | ***2 of 5*** | ***E/27.7*** | ***202.3 / 1.43*** | ***NIAGARA FALLS BREWING COMPANY
6863 LUNDY'S LANE
NIAGARA FALLS ON L2G 1V7*** | ***SCT***

Established:	1989
Plant Size (ft²):	0
Employment:	11

--Details--

Description:	Breweries
SIC/NAICS Code:	312120

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16 | ***3 of 5*** | ***E/27.7*** | ***202.3 / 1.43*** | ***NIAGARA FALLS BREWING COMPANY
6863 LUNDY'S LANE
NIAGARA FALLS ON L2G 1V7*** | ***SCT***

Established:	1989
Plant Size (ft²):	7000
Employment:	18

--Details--

Description:	MALT BEVERAGES
SIC/NAICS Code:	2082

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
16	4 of 5	E/27.7	202.3 / 1.43	NIAGARA FALLS BREWING CO 6863 LUNDYS LANE NIAGARA FALLS ON L2G 1V7	SCT

Established: 1989
Plant Size (ft²): 0
Employment: 11

--Details--
Description: MALT BEVERAGES
SIC/NAICS Code: 2082

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
16	5 of 5	E/27.7	202.3 / 1.43	Niagara Brewing Company 6863 Lundy's Lane Niagara Falls ON L2G 1V7	SCT

Established: 1989
Plant Size (ft²):
Employment: 11

--Details--
Description: Breweries
SIC/NAICS Code: 312120

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
17	1 of 1	E/40.1	204.5 / 3.64	IDEAL DONUT 6864 LUNDY'S LANE NIAGARA FALLS ON L2G 1V6	SCT

Established:
Plant Size (ft²): 0
Employment: 4

--Details--
Description: BREAD & OTHER BAKERY PRODUCTS, EXCEPT COOKIES & CRACKERS
SIC/NAICS Code: 2051

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
18	1 of 2	E/24.8	202.5 / 1.67	CRIVELLER CANDIES CANADA 6853 LUNDY'S LANE NIAGARA FALLS ON L2G 1V7	SCT

Established: 1976
Plant Size (ft²): 0
Employment: 20

--Details--
Description: BREAD AND OTHER BAKERY PRODUCTS, EXCEPT COOKIES AND CRACKERS
SIC/NAICS Code: 2051

Description: COOKIES AND CRACKERS
SIC/NAICS Code: 2052

Description: CANDY AND OTHER CONFECTIONERY PRODUCTS
SIC/NAICS Code: 2064

Description: INDUSTRIAL MACHINERY AND EQUIPMENT
SIC/NAICS Code: 5084

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Description: Confectionery Manufacturing from Purchased Chocolate
SIC/NAICS Code: 311330

Description: Non-Chocolate Confectionery Manufacturing
SIC/NAICS Code: 311340

Description: Commercial Bakeries and Frozen Bakery Product Manufacturing
SIC/NAICS Code: 311814

Description: Cookie and Cracker Manufacturing
SIC/NAICS Code: 311821

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18 | ***2 of 2*** | ***E/24.8*** | ***202.5 / 1.67*** | ***Criveller Candies***
6853 Lundy's Lane
Niagara Falls ON L2G 1V7 | ***SCT***

Established: 1979
Plant Size (ft²): 30000
Employment: 20

--Details--
Description: Confectionery Manufacturing from Purchased Chocolate
SIC/NAICS Code: 311330

Description: Non-Chocolate Confectionery Manufacturing
SIC/NAICS Code: 311340

Description: Commercial Bakeries and Frozen Bakery Product Manufacturing
SIC/NAICS Code: 311814

Description: Cookie and Cracker Manufacturing
SIC/NAICS Code: 311821

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20 | ***1 of 8*** | ***W/38.9*** | ***201.8 / 0.98*** | ***7280 Lundy's Lane***
Niagara Falls ON L2G 1W2 | ***EHS***

Order No:	20200220279	***Nearest Intersection:***	
Status:	C	***Municipality:***	
Report Type:	Standard Report	***Client Prov/State:***	ON
Report Date:	25-FEB-20	***Search Radius (km):***	.25
Date Received:	20-FEB-20	***X:***	-79.1173217
Previous Site Name:		***Y:***	43.0886925
Lot/Building Size:			
Additional Info Ordered:	Fire Insur. Maps and/or Site Plans		

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20 | ***2 of 8*** | ***W/38.9*** | ***201.8 / 0.98*** | ***7280 Lundy's Lane***
Niagara Falls ON L2G 1W2 | ***EHS***

Order No:	20200220279	***Nearest Intersection:***	
Status:	C	***Municipality:***	
Report Type:	Standard Report	***Client Prov/State:***	ON
Report Date:	25-FEB-20	***Search Radius (km):***	.25
Date Received:	20-FEB-20	***X:***	-79.1173217
Previous Site Name:		***Y:***	43.0886925
Lot/Building Size:			
Additional Info Ordered:	Fire Insur. Maps and/or Site Plans		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
20	3 of 8	W/38.9	201.8 / 0.98	7280 Lundy's Lane Niagara Falls ON L2G 1W2	EHS

Order No:	20200220279	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Standard Report	**Client Prov/State:**	ON
Report Date:	25-FEB-20	**Search Radius (km):**	.25
Date Received:	20-FEB-20	**X:**	-79.1173217
Previous Site Name:		**Y:**	43.0886925
Lot/Building Size:			
Additional Info Ordered:	Fire Insur. Maps and/or Site Plans		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
20	4 of 8	W/38.9	201.8 / 0.98	7280 Lundy's Lane Niagara Falls ON L2G 1W2	EHS

Order No:	20302900023	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	RSC Report (Urban)	**Client Prov/State:**	ON
Report Date:	03-NOV-20	**Search Radius (km):**	.3
Date Received:	29-OCT-20	**X:**	-79.1173217
Previous Site Name:		**Y:**	43.0886925
Lot/Building Size:			
Additional Info Ordered:	Fire Insur. Maps and/or Site Plans		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
20	5 of 8	W/38.9	201.8 / 0.98	7280 Lundy's Lane Niagara Falls ON L2G 1W2	EHS

Order No:	20302900023	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	RSC Report (Urban)	**Client Prov/State:**	ON
Report Date:	03-NOV-20	**Search Radius (km):**	.3
Date Received:	29-OCT-20	**X:**	-79.1173217
Previous Site Name:		**Y:**	43.0886925
Lot/Building Size:			
Additional Info Ordered:	Fire Insur. Maps and/or Site Plans		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
20	6 of 8	W/38.9	201.8 / 0.98	7280 Lundy's Lane Niagara Falls ON L2G 1W2	EHS

Order No:	20200220279	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Standard Report	**Client Prov/State:**	ON
Report Date:	25-FEB-20	**Search Radius (km):**	.25
Date Received:	20-FEB-20	**X:**	-79.1173217
Previous Site Name:		**Y:**	43.0886925
Lot/Building Size:			
Additional Info Ordered:	Fire Insur. Maps and/or Site Plans		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
20	7 of 8	W/38.9	201.8 / 0.98	7280 Lundy's Lane Niagara Falls ON L2G 1W2	EHS

Order No:	20302900023	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	RSC Report (Urban)	**Client Prov/State:**	ON
Report Date:	03-NOV-20	**Search Radius (km):**	.3
Date Received:	29-OCT-20	**X:**	-79.1173217
Previous Site Name:		**Y:**	43.0886925
Lot/Building Size:			
Additional Info Ordered:	Fire Insur. Maps and/or Site Plans		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
20	8 of 8	W/38.9	201.8 / 0.98	7280 Lundy's Lane Niagara Falls ON L2G 1W2	EHS

Order No: 20200220279
Status: C
Report Type: Standard Report
Report Date: 25-FEB-20
Date Received: 20-FEB-20
Previous Site Name:
Lot/Building Size:
Additional Info Ordered: Fire Insur. Maps and/or Site Plans

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -79.1173217
Y: 43.0886925

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
21	1 of 1	W/3.5	201.9 / 1.03	7230-7280 Lundy's Lane Niagara Falls ON L2G 1W2	EHS

Order No: 20060510021
Status: C
Report Type: Complete Report
Report Date: 5/19/2006
Date Received: 5/10/2006
Previous Site Name:
Lot/Building Size:
Additional Info Ordered: City Directory

Nearest Intersection: QEW
Municipality:
Client Prov/State: ON
Search Radius (km): 0.4
X: -79.117097
Y: 43.087273

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
22	1 of 10	E/29.2	204.9 / 4.05	6800 & 6812 Lundy's Lane Niagara Falls ON L8R 3L2	EHS

Order No: 20020308004
Status: C
Report Type: Site Report
Report Date: 3/12/02
Date Received: 3/8/02
Previous Site Name:
Lot/Building Size:
Additional Info Ordered: Fire Insur. Maps and/or Site Plans and/or Inspection Reports

Nearest Intersection: Lundy's Lane and Corwin Avenue
Municipality: Regional Niagara
Client Prov/State: ON
Search Radius (km): 0.25
X: -79.108836
Y: 43.089155

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
22	2 of 10	E/29.2	204.9 / 4.05	6800-6812 Lundy's Lane Niagara Falls ON L2G 1V6	EHS

Order No: 20060426006
Status: C
Report Type: Basic Report
Report Date: 5/4/2006
Date Received: 4/26/2006
Previous Site Name:
Lot/Building Size: less than 1 acre
Additional Info Ordered:

Nearest Intersection: Lundy's Lane and Corwin Avenue
Municipality:
Client Prov/State: ON
Search Radius (km): 0.25
X: -79.108836
Y: 43.089155

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
22	3 of 10	E/29.2	204.9 / 4.05	1137798 Ontario Limited 6812 Lundy's Lane Niagara Falls Regional Municipality of Niagara CITY OF NIAGARA FALLS ON	EBR

EBR Registry No: 010-1377
Ministry Ref No: 4186-74KSPW

Decision Posted:
Exception Posted:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Notice Type: Instrument Decision
Notice Stage:
Notice Date: March 20, 2008
Proposal Date: August 15, 2007
Year: 2007
Instrument Type: (EPA s. 9) - Approval for discharge into the natural environment other than water (i.e. Air)
Off Instrument Name:
Posted By:
Company Name: 1137798 Ontario Limited
Site Address:
Location Other:
Proponent Name:
Proponent Address: 1268 Lundy's Lane, Niagara Falls Ontario, Canada L2G 1V6
Comment Period:
URL:

Section:
Act 1:
Act 2:
Site Location Map:

Site Location Details:

6812 Lundy's Lane Niagara Falls Regional Municipality of Niagara CITY OF NIAGARA FALLS

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22 | 4 of 10 | E/29.2 | 204.9 / 4.05 | **1137798 Ontario Limited**
6812 Lundy's Lane
Niagara Falls ON L2G 1V6 | CA

Certificate #: 6839-7CQPG8
Application Year: 2008
Issue Date: 3/14/2008
Approval Type: Air
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

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22 | 5 of 10 | E/29.2 | 204.9 / 4.05 | **PartSource 709**
6812 Lundy's Lane
Niagara Falls ON | GEN

Generator No: ON4511090
Status:
Approval Years: 2013
Contam. Facility:
MHSW Facility:
SIC Code: 441310
SIC Description: AUTOMOTIVE PARTS AND ACCESSORIES STORES

PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 263
Waste Class Desc: ORGANIC LABORATORY CHEMICALS

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22 | 6 of 10 | E/29.2 | 204.9 / 4.05 | **1137798 Ontario Limited** | ECA

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
				6812 Lundy's Lane **Niagara Falls ON L2G 1V6**	

Approval No: 6839-7CQPG8
Approval Date: 2008-03-14
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
Approval Type: ECA-AIR
Project Type: AIR
Business Name: 1137798 Ontario Limited
Address: 6812 Lundy's Lane
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/4186-74KSPW-13.pdf
PDF Site Location:

MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:

22	7 of 10	E/29.2	204.9 / 4.05	**Canadian Tire Corporation, limited** **6812 Lundy's Lane** **Niagara Falls ON L2G 1V6**	GEN

Generator No: ON9347021
Status:
Approval Years: 2016
Contam. Facility: No
MHSW Facility: No
SIC Code: 415290
SIC Description: OTHER NEW MOTOR VEHICLE PARTS AND ACCESSORIES WHOLESALER-DISTRIBUTORS

PO Box No:
Country: Canada
Choice of Contact: CO_OFFICIAL
Co Admin: John Thompson
Phone No Admin: 905-356-6105 Ext.

Detail(s)

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

Waste Class: 263
Waste Class Desc: ORGANIC LABORATORY CHEMICALS

22	8 of 10	E/29.2	204.9 / 4.05	**Canadian Tire Corporation, limited** **6812 Lundy's Lane** **Niagara Falls ON L2G 1V6**	GEN

Generator No: ON9347021
Status: Registered
Approval Years: As of Dec 2018
Contam. Facility:
MHSW Facility:
SIC Code:
SIC Description:

PO Box No:
Country: Canada
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 263 I
Waste Class Desc: Misc. waste organic chemicals

Waste Class: 331 I
Waste Class Desc: Waste compressed gases including cylinders

22	9 of 10	E/29.2	204.9 / 4.05	**Canadian Tire Corporation, limited** **6812 Lundy's Lane** **Niagara Falls ON L2G 1V6**	GEN

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Generator No: ON9347021
Status: Registered
Approval Years: As of Jul 2020
Contam. Facility:
MHSW Facility:
SIC Code:
SIC Description:

PO Box No:
Country: Canada
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 263 I
Waste Class Desc: Misc. waste organic chemicals

Waste Class: 331 I
Waste Class Desc: Waste compressed gases including cylinders

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22 | **10 of 10** | **E/29.2** | **204.9 / 4.05** | **Canadian Tire Corporation, limited**
6812 Lundy's Lane
Niagara Falls ON L2G 1V6 | **GEN**

Generator No: ON9347021
Status: Registered
Approval Years: As of Aug 2021
Contam. Facility:
MHSW Facility:
SIC Code:
SIC Description:

PO Box No:
Country: Canada
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 263 I
Waste Class Desc: Misc. waste organic chemicals

Waste Class: 331 I
Waste Class Desc: Waste compressed gases including cylinders

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23 | **1 of 3** | **W/49.3** | **198.3 / -2.55** | **7301 Lundy's Lane**
Niagara Falls ON L2H 2W9 | **EHS**

Order No: 20300600024
Status: C
Report Type: Standard Report
Report Date: 09-OCT-20
Date Received: 06-OCT-20
Previous Site Name:
Lot/Building Size:
Additional Info Ordered: Fire Insur. Maps and/or Site Plans

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -79.1181117
Y: 43.0897053

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23 | **2 of 3** | **W/49.3** | **198.3 / -2.55** | **7301 Lundy's Lane**
Niagara Falls ON L2H 2W9 | **EHS**

Order No: 20300600024
Status: C
Report Type: Standard Report
Report Date: 09-OCT-20
Date Received: 06-OCT-20
Previous Site Name:
Lot/Building Size:
Additional Info Ordered: Fire Insur. Maps and/or Site Plans

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -79.1181117
Y: 43.0897053

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
23	3 of 3	W/49.3	198.3 / -2.55	7301 Lundy's Lane Niagara Falls ON L2H 2W9	EHS

Order No: 20300600024
Status: C
Report Type: Standard Report
Report Date: 09-OCT-20
Date Received: 06-OCT-20
Previous Site Name:
Lot/Building Size:
Additional Info Ordered: Fire Insur. Maps and/or Site Plans

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -79.1181117
Y: 43.0897053

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
24	1 of 7	E/44.5	203.6 / 2.76	KWIK KOPY PRINTING 6769 LUNDY'S LANE UNIT 4 NIAGARA FALLS ON L2G 1V4	SCT

Established: 1984
Plant Size (ft²): 1350
Employment: 3

--Details--
Description: COMMERCIAL PRINTING, LITHOGRAPHIC
SIC/NAICS Code: 2752

Description: TYPESETTING
SIC/NAICS Code: 2791

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
24	2 of 7	E/44.5	203.6 / 2.76	KWIK-KOPY PRINTING 6769 LUNDY'S LANE NIAGARA FALLS ON L2G 1V4	GEN

Generator No: ON1250203
Status:
Approval Years: 92,93,97,98
Contam. Facility:
MHSW Facility:
SIC Code: 7796
SIC Description: DUPLICATING SERV.

PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
24	3 of 7	E/44.5	203.6 / 2.76	KWIK-KOPY PRINTING 23-535 581814 ONTARIO LTD. 6769 LUNDY'S LANE NIAGARA FALLS ON L2G 1V4	GEN

Generator No: ON1250203
Status:
Approval Years: 94,95,96
Contam. Facility:
MHSW Facility:
SIC Code: 7796
SIC Description: DUPLICATING SERV.

PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

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24 **4 of 7** **E/44.5** **203.6 / 2.76** **KWIK KOPY PRINTING** **GEN**
6769 LUNDY'S LANE
NIAGARA FALLS ON L2G 1V4

Generator No: ON1250203
Status:
Approval Years: 99,00,01
Contam. Facility:
MHSW Facility:
SIC Code: 7796
SIC Description: DUPLICATING SERV.

PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

Waste Class: 253
Waste Class Desc: EMULSIFIED OILS

Waste Class: 264
Waste Class Desc: PHOTOPROCESSING WASTES

Waste Class: 265
Waste Class Desc: GRAPHIC ART WASTES

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24 **5 of 7** **E/44.5** **203.6 / 2.76** **KWIK KOPY PRINTING** **GEN**
581814 ONTARIO LIMITED 6769 LUNDY'S LANE
NIAGARA FALLS ON L2G 1V4

Generator No: ON1250203
Status:
Approval Years: 02,03,04
Contam. Facility:
MHSW Facility:
SIC Code:
SIC Description:

PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

Waste Class: 253
Waste Class Desc: EMULSIFIED OILS

Waste Class: 264
Waste Class Desc: PHOTOPROCESSING WASTES

Waste Class: 265
Waste Class Desc: GRAPHIC ART WASTES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
24	6 of 7	E/44.5	203.6 / 2.76	2049214 Ontario Inc. 6769 Lundy's Lane #4 Niagara Falls ON L2G 1V4	GEN

Generator No: ON4660703
Status:
Approval Years: 05,06
Contam. Facility:
MHSW Facility:
SIC Code: 323114
SIC Description: Quick Printing

PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

Waste Class: 264
Waste Class Desc: PHOTOPROCESSING WASTES

Waste Class: 265
Waste Class Desc: GRAPHIC ART WASTES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
24	7 of 7	E/44.5	203.6 / 2.76	Kwik Kopy Design & Print 6769 Lundy's Lane Niagara Falls ON L2G 1V4	SCT

Established:
Plant Size (ft²):
Employment:

--Details--
Description: Quick Printing
SIC/NAICS Code: 323114

Description: Business Service Centres
SIC/NAICS Code: 561430

Description: Graphic Design Services
SIC/NAICS Code: 541430

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
25	1 of 1	W/0.9	194.5 / -6.35	ON	BORE

Borehole ID: 857687
OGF ID: 215577685
Status: Decommissioned
Type: Borehole
Use: Geotechnical/Geological Investigation
Completion Date: 19-JAN-1962
Static Water Level:
Primary Water Use:
Sec. Water Use:
Total Depth m: 7.9
Depth Ref: Ground Surface
Depth Elev:
Drill Method: Hollow stem auger
Orig Ground Elev m: 195
Elev Reliabil Note:

Inclin FLG: No
SP Status: Initial Entry
Surv Elev: No
Piezometer: No
Primary Name:
Municipality:
Lot:
Township:
Latitude DD: 43.089263
Longitude DD: -79.11868
UTM Zone: 17
Easting: 653123
Northing: 4772445
Location Accuracy:
Accuracy: Within 10 metres

DEM Ground Elev m: 194
Concession:
Location D: Widening of Structure at Lundy's Lane (Hwys. 20 & 3A) and Q.E.W. Interchange, Niagara Falls, Township of Stamford, District #4
Survey D:
Comments:

Borehole Geology Stratum

Geology Stratum ID: 220433168
Top Depth: .2
Bottom Depth: 7.9
Material Color:
Material 1: Silt
Material 2: Fine Sand
Material 3: Gravel
Material 4:
Gsc Material Description:
Stratum Description: Silt with trace of fine sand and gravel **Note: Many records provided by the department have a truncated [Stratum Description] field.

Mat Consistency:
Material Moisture:
Material Texture:
Non Geo Mat Type:
Geologic Formation:
Geologic Group:
Geologic Period:
Depositional Gen:

Geology Stratum ID: 220433167
Top Depth: 0
Bottom Depth: .2
Material Color:
Material 1: Topsoil
Material 2:
Material 3:
Material 4:
Gsc Material Description:
Stratum Description: Topsoil **Note: Many records provided by the department have a truncated [Stratum Description] field.

Mat Consistency:
Material Moisture:
Material Texture:
Non Geo Mat Type:
Geologic Formation:
Geologic Group:
Geologic Period:
Depositional Gen:

28	1 of 11	E/32.1	204.8 / 4.00	The Sherwin-Williams Company 6734 - 6758 Lundy's Lane Unit 1 Niagara Falls ON L2G 1V5	GEN

Generator No: ON6958456
Status:
Approval Years: 2009
Contam. Facility:
MHSW Facility:
SIC Code: 444120
SIC Description: Paint and Wallpaper Stores

PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 232
Waste Class Desc: POLYMERIC RESINS

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

28	2 of 11	E/32.1	204.8 / 4.00	The Sherwin-Williams Company 6734 - 6758 Lundy's Lane Unit 1 Niagara Falls ON L2G 1V5	GEN

Generator No: ON6958456
Status:
Approval Years: 2010
Contam. Facility:

PO Box No:
Country:
Choice of Contact:
Co Admin:

MHSW Facility: ***Phone No Admin:***
SIC Code: 444120
SIC Description: Paint and Wallpaper Stores

Detail(s)

Waste Class: 232
Waste Class Desc: POLYMERIC RESINS

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

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28 ***3 of 11*** ***E/32.1*** ***204.8 / 4.00*** ***The Sherwin-Williams Company***
6734 - 6758 Lundy's Lane Unit 1
Niagara Falls ON L2G 1V5 ***GEN***

Generator No: ON6958456 ***PO Box No:***
Status: ***Country:***
Approval Years: 2011 ***Choice of Contact:***
Contam. Facility: ***Co Admin:***
MHSW Facility: ***Phone No Admin:***
SIC Code: 444120
SIC Description: Paint and Wallpaper Stores

Detail(s)

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

Waste Class: 232
Waste Class Desc: POLYMERIC RESINS

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28 ***4 of 11*** ***E/32.1*** ***204.8 / 4.00*** ***The Sherwin-Williams Company***
6734 - 6758 Lundy's Lane Unit 1
Niagara Falls ON L2G 1V5 ***GEN***

Generator No: ON6958456 ***PO Box No:***
Status: ***Country:***
Approval Years: 2012 ***Choice of Contact:***
Contam. Facility: ***Co Admin:***
MHSW Facility: ***Phone No Admin:***
SIC Code: 444120
SIC Description: Paint and Wallpaper Stores

Detail(s)

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 232
Waste Class Desc: POLYMERIC RESINS

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
28	5 of 11	E/32.1	204.8 / 4.00	The Sherwin-Williams Company 6734 - 6758 Lundy's Lane Unit 1 Niagara Falls ON	GEN

Generator No: ON6958456
Status:
Approval Years: 2013
Contam. Facility:
MHSW Facility:
SIC Code: 444120
SIC Description: PAINT AND WALLPAPER STORES

PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 232
Waste Class Desc: POLYMERIC RESINS

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
28	6 of 11	E/32.1	204.8 / 4.00	The Sherwin-Williams Company 6734 - 6758 Lundy's Lane Unit 1 Niagara Falls ON L2G 1V5	GEN

Generator No: ON6958456
Status:
Approval Years: 2015
Contam. Facility: No
MHSW Facility: No
SIC Code: 444120
SIC Description: PAINT AND WALLPAPER STORES

PO Box No:
Country: Canada
Choice of Contact: CO_ADMIN
Co Admin: Annette McKay
Phone No Admin: 519-624-8813 Ext.101

Detail(s)

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 232
Waste Class Desc: POLYMERIC RESINS

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
28	7 of 11	E/32.1	204.8 / 4.00	The Sherwin-Williams Company 6734 - 6758 Lundy's Lane Unit 1 Niagara Falls ON L2G 1V5	GEN

Generator No: ON6958456
Status:
Approval Years: 2016
Contam. Facility: No
MHSW Facility: No
SIC Code: 444120
SIC Description: PAINT AND WALLPAPER STORES

PO Box No:
Country: Canada
Choice of Contact: CO_ADMIN
Co Admin: Annette McKay
Phone No Admin: 519-624-8813 Ext.101

Detail(s)

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

Waste Class: 232
Waste Class Desc: POLYMERIC RESINS

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

---

28 **8 of 11** **E/32.1** **204.8 / 4.00** **The Sherwin-Williams Company** **GEN**
6734 - 6758 Lundy's Lane Unit 1
Niagara Falls ON L2G 1V5

Generator No: ON6958456
Status:
Approval Years: 2014
Contam. Facility: No
MHSW Facility: No
SIC Code: 444120
SIC Description: PAINT AND WALLPAPER STORES

PO Box No:
Country: Canada
Choice of Contact: CO_ADMIN
Co Admin: Annette McKay
Phone No Admin: 519-624-8813 Ext.101

Detail(s)

Waste Class: 232
Waste Class Desc: POLYMERIC RESINS

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

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28 **9 of 11** **E/32.1** **204.8 / 4.00** **The Sherwin-Williams Company** **GEN**
6734 - 6758 Lundy's Lane Unit 1
Niagara Falls ON L2G 1V5

Generator No: ON6958456
Status: Registered
Approval Years: As of Dec 2018
Contam. Facility:
MHSW Facility:
SIC Code:
SIC Description:

PO Box No:
Country: Canada
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 145 I
Waste Class Desc: Wastes from the use of pigments, coatings and paints

Waste Class: 145 L
Waste Class Desc: Wastes from the use of pigments, coatings and paints

Waste Class: 148 C
Waste Class Desc: Misc. wastes and inorganic chemicals

Waste Class: 232 I
Waste Class Desc: Polymeric resins

Waste Class: 331 I

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Waste Class Desc: Waste compressed gases including cylinders

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28 **10 of 11** **E/32.1** **204.8 / 4.00** **The Sherwin-Williams Company** **GEN**
6734 - 6758 Lundy's Lane Unit 1
Niagara Falls ON L2G 1V5

Generator No: ON6958456
Status: Registered
Approval Years: As of Jul 2020
Contam. Facility:
MHSW Facility:
SIC Code:
SIC Description:

PO Box No:
Country: Canada
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 145 L
Waste Class Desc: Wastes from the use of pigments, coatings and paints

Waste Class: 232 I
Waste Class Desc: Polymeric resins

Waste Class: 331 I
Waste Class Desc: Waste compressed gases including cylinders

Waste Class: 145 I
Waste Class Desc: Wastes from the use of pigments, coatings and paints

Waste Class: 148 C
Waste Class Desc: Misc. wastes and inorganic chemicals

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28 **11 of 11** **E/32.1** **204.8 / 4.00** **The Sherwin-Williams Company** **GEN**
6734 - 6758 Lundy's Lane Unit 1
Niagara Falls ON L2G 1V5

Generator No: ON6958456
Status: Registered
Approval Years: As of Aug 2021
Contam. Facility:
MHSW Facility:
SIC Code:
SIC Description:

PO Box No:
Country: Canada
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 232 I
Waste Class Desc: Polymeric resins

Waste Class: 145 L
Waste Class Desc: Wastes from the use of pigments, coatings and paints

Waste Class: 331 I
Waste Class Desc: Waste compressed gases including cylinders

Waste Class: 145 I
Waste Class Desc: Wastes from the use of pigments, coatings and paints

Waste Class: 148 C
Waste Class Desc: Misc. wastes and inorganic chemicals

---

29 **1 of 1** **W/2.3** **194.5 / -6.33** **ON** **BORE**

Borehole ID:	857686	**Inclin FLG:**	No
OGF ID:	215577684	**SP Status:**	Initial Entry
Status:	Decommissioned	**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:	Geotechnical/Geological Investigation	**Primary Name:**	
Completion Date:	16-JAN-1962	**Municipality:**	
Static Water Level:		**Lot:**	
Primary Water Use:		**Township:**	
Sec. Water Use:		**Latitude DD:**	43.088936
Total Depth m:	8.1	**Longitude DD:**	-79.119083
Depth Ref:	Ground Surface	**UTM Zone:**	17
Depth Elev:		**Easting:**	653091
Drill Method:	Hollow stem auger	**Northing:**	4772408
Orig Ground Elev m:	195	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Within 10 metres
DEM Ground Elev m:	194		
Concession:			
Location D:	Widening of Structure at Lundy's Lane (Hwys. 20 & 3A) and Q.E.W. Interchange, Niagara Falls, Township of Stamford, District #4		
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	220433165	**Mat Consistency:**	
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	.2	**Material Texture:**	
Material Color:		**Non Geo Mat Type:**	
Material 1:	Topsoil	**Geologic Formation:**	
Material 2:		**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	Topsoil **Note: Many records provided by the department have a truncated [Stratum Description] field.		

Geology Stratum ID:	220433166	**Mat Consistency:**	Very Dense
Top Depth:	.2	**Material Moisture:**	
Bottom Depth:	8.1	**Material Texture:**	
Material Color:	Red-Brown	**Non Geo Mat Type:**	
Material 1:	Silt	**Geologic Formation:**	
Material 2:	Fine Sand	**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			
Stratum Description:	Silt, trace of fine sand. Very dense. Brown red **Note: Many records provided by the department have a truncated [Stratum Description] field.		

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30 ***1 of 1*** ***W/7.1*** ***194.9 / -5.95*** ***ON*** ***BORE***

Borehole ID:	603286	**Inclin FLG:**	No
OGF ID:	215505098	**SP Status:**	Initial Entry
Status:		**Surv Elev:**	No
Type:	Borehole	**Piezometer:**	No
Use:	Geotechnical/Geological Investigation	**Primary Name:**	
Completion Date:	JAN-1962	**Municipality:**	
Static Water Level:		**Lot:**	
Primary Water Use:	Not Used	**Township:**	
Sec. Water Use:		**Latitude DD:**	43.08889
Total Depth m:	8.1	**Longitude DD:**	-79.119282
Depth Ref:	Ground Surface	**UTM Zone:**	17
Depth Elev:		**Easting:**	653075
Drill Method:	Diamond Drill	**Northing:**	4772403

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Orig Ground Elev m:	195	**Location Accuracy:**	
Elev Reliabil Note:		**Accuracy:**	Not Applicable
DEM Ground Elev m:	195		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218360770	**Mat Consistency:**	Dense
Top Depth:	0	**Material Moisture:**	
Bottom Depth:	8.1	**Material Texture:**	
Material Color:	Brown	**Non Geo Mat Type:**	
Material 1:	Silt	**Geologic Formation:**	
Material 2:	Sand	**Geologic Group:**	
Material 3:		**Geologic Period:**	
Material 4:		**Depositional Gen:**	
Gsc Material Description:			

Stratum Description: SILT,SAND. BROWN,VERY DENSE. 024 00000004 **Note: Many records provided by the department have a truncated [Stratum Description] field.

Source

Source Type:	Data Survey	**Source Appl:**	Spatial/Tabular
Source Orig:	Geological Survey of Canada	**Source Iden:**	1
Source Date:	1956-1972	**Scale or Res:**	Varies
Confidence:	H	**Horizontal:**	NAD27
Observatio:		**Verticalda:**	Mean Average Sea Level

Source Name: Urban Geology Automated Information System (UGAIS)
Source Details: File: NIAGARA.txt RecordID: 005890 NTS_Sheet: 30M03A
Confiden 1: Logged by professional. Exact and complete description of material and properties.

Source List

Source Identifier:	1	**Horizontal Datum:**	NAD27
Source Type:	Data Survey	**Vertical Datum:**	Mean Average Sea Level
Source Date:	1956-1972	**Projection Name:**	Universal Transverse Mercator
Scale or Resolution:	Varies		

Source Name: Urban Geology Automated Information System (UGAIS)
Source Originators: Geological Survey of Canada

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
31	1 of 1	E/49.4	205.3 / 4.46	6666 LUNDY'S LANE Niagara Falls ON	WWIS

Well ID:	7130895	**Data Entry Status:**	
Construction Date:		**Data Src:**	
Primary Water Use:	Monitoring	**Date Received:**	10/1/2009
Sec. Water Use:		**Selected Flag:**	True
Final Well Status:	0	**Abandonment Rec:**	
Water Type:		**Contractor:**	6607
Casing Material:		**Form Version:**	7
Audit No:	Z095161	**Owner:**	
Tag:	A082721	**Street Name:**	6666 LUNDY'S LANE
Construction Method:		**County:**	NIAGARA
Elevation (m):		**Municipality:**	NIAGARA FALLS CITY
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	
Well Depth:		**Concession:**	
Overburden/Bedrock:		**Concession Name:**	
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	

Flowing (Y/N): ***Zone:***
Flow Rate: ***UTM Reliability:***
Clear/Cloudy:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/713\7130895.pdf

Additional Detail(s) (Map)

Well Completed Date: 2009/07/31
Year Completed: 2009
Depth (m): 4.6
Latitude: 43.0887616312283
Longitude: -79.1074169969016
Path: 713\7130895.pdf

Bore Hole Information

Bore Hole ID:	1002730208	***Elevation:***	205.413192
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	654041.00
Code OB Desc:		***North83:***	4772410.00
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	4
Date Completed:	31-Jul-2009 00:00:00	***UTMRC Desc:***	margin of error : 30 m - 100 m
Remarks:		***Location Method:***	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID: 1002873184
Layer: 1
Color: 6
General Color: BROWN
Mat1: 28
Most Common Material: SAND
Mat2: 11
Mat2 Desc: GRAVEL
Mat3: 77
Mat3 Desc: LOOSE
Formation Top Depth: 0.0
Formation End Depth: 1.100000023841858
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1002873185
Layer: 2
Color: 6
General Color: BROWN
Mat1: 06
Most Common Material: SILT
Mat2: 28
Mat2 Desc: SAND
Mat3: 66

Mat3 Desc: DENSE
Formation Top Depth: 1.100000023841858
Formation End Depth: 4.599999904632568
Formation End Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1002873188
Layer: 2
Plug From: 2.70000004768372
Plug To: 4.59999990463257
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1002873187
Layer: 1
Plug From: 0
Plug To: 2.70000004768372
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 1002873193
Method Construction Code: 6
Method Construction: Boring
Other Method Construction:

Pipe Information

Pipe ID: 1002873183
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1002873190
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0
Depth To: 3
Casing Diameter: 5.09999990463257
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1002873191
Layer: 1
Slot: 20
Screen Top Depth: 3
Screen End Depth: 4.59999990463257
Screen Material: 5
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter: 6.40000009536743

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Water Details

Water ID:	1002873189
Layer:	
Kind Code:	
Kind:	
Water Found Depth:	
Water Found Depth UOM:	m

Hole Diameter

Hole ID:	1002873186
Diameter:	21.0
Depth From:	0.0
Depth To:	4.599999904632568
Hole Depth UOM:	m
Hole Diameter UOM:	cm

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32 | ***1 of 1*** | ***E/33.1*** | ***204.8 / 4.00*** | ***6734 Lundy's Lane Niagara Falls ON L2G 1V5*** | ***EHS***

Order No:	20030520006	***Nearest Intersection:***	
Status:	C	***Municipality:***	
Report Type:	Site Report	***Client Prov/State:***	OH
Report Date:	5/21/03	***Search Radius (km):***	0.25
Date Received:	5/20/03	***X:***	-79.107874
Previous Site Name:		***Y:***	43.089223
Lot/Building Size:			
Additional Info Ordered:			

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33 | ***1 of 13*** | ***W/48.8*** | ***195.9 / -4.93*** | ***H & R REIT 7500 LUNDY'S LANE NOT AVAILABLE NIAGARA FALLS ON L2H1G8*** | ***NPRI***

NPRI ID:	11295	***Org ID:***	50677
Other ID:	N	***Submit Date:***	5/31/2006
No Other ID:		***Last Modified:***	5/29/2015 3:28:24 PM
Track ID:	39913	***Contact ID:***	139291
Report ID:	100875	***Cont Type:***	MED
Report Type:	NPRI	***Contact Title:***	
Rpt Type ID:	1	***Cont First Name:***	DAVID
Report Year:	2005	***Cont Last Name:***	MOIR
Not-Current Rpt?:	No	***Contact Position:***	TECHNICAL MANAGER
Yr of Last Filed Rpt:	2012	***Contact Fax:***	4166359921
Fac ID:	157684	***Contact Ph.:***	4166357520
Fac Name:	LUNDYS LANE	***Cont Area Code:***	416
Fac Address1:	7500 LUNDY'S LANE	***Contact Tel.:***	66357520
Fac Address2:	NOT AVAILABLE	***Contact Ext.:***	
Fac Postal Zip:	L2H1G8	***Cont Fax Area Cde:***	416
Facility Lat:	43.0888	***Contact Fax:***	66359921
Facility Long:	-79.1214	***Contact Email:***	DMOIR@HR-DEV.COM
DLS (Last Filed Rpt):		***Latitude:***	43.0888
Facility DLS:		***Longitude:***	-79.1214
Datum:	1983	***UTM Zone:***	
Facility Cmnts:	False	***UTM Northing:***	
URL:		***UTM Easting:***	
No of Empl.:	5	***Waste Streams:***	False
Parent Co.:	N	***No Streams:***	
No Parent Co.:		***Waste Off Sites:***	False
Pollut Prev Cmnts:	False	***No Off Sites:***	
Stacks:	False	***Shutdown:***	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

No of Stacks:		**No of Shutdown:**	
Canadian SIC Code (2 digit):			
Canadian SIC Code:			
SIC Code Description:			
American SIC Code:			
NAICS Code (2 digit):	53		
NAICS 2 Description:	Real estate and rental and leasing		
NAICS Code (4 digit):	5311		
NAICS 4 Description:	Lessors of real estate		
NAICS Code (6 digit):	531120		
NAICS 6 Description:	Lessors of non-residential buildings (except mini-warehouses)		

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33 **2 of 13** **W/48.8** **195.9 / -4.93** **H & R REIT**
7500 LUNDY'S LANE NOT AVAILABLE
NIAGARA FALLS ON L2H1G8 **NPRI**

NPRI ID:	11295	**Org ID:**	50677
Other ID:	*	**Submit Date:**	5/29/2007
No Other ID:		**Last Modified:**	5/29/2015 3:28:24 PM
Track ID:	45836	**Contact ID:**	
Report ID:	108725	**Cont Type:**	
Report Type:	DNMC	**Contact Title:**	
Rpt Type ID:	2	**Cont First Name:**	
Report Year:	2006	**Cont Last Name:**	
Not-Current Rpt?:	No	**Contact Position:**	
Yr of Last Filed Rpt:	2012	**Contact Fax:**	
Fac ID:	157684	**Contact Ph.:**	
Fac Name:	LUNDYS LANE	**Cont Area Code:**	
Fac Address1:	7500 LUNDY'S LANE	**Contact Tel.:**	
Fac Address2:	NOT AVAILABLE	**Contact Ext.:**	
Fac Postal Zip:	L2H1G8	**Cont Fax Area Cde:**	
Facility Lat:	43.0888	**Contact Fax:**	
Facility Long:	-79.1214	**Contact Email:**	
DLS (Last Filed Rpt):		**Latitude:**	43.0888
Facility DLS:		**Longitude:**	-79.1214
Datum:	1983	**UTM Zone:**	
Facility Cmnts:	False	**UTM Northing:**	
URL:		**UTM Easting:**	
No of Empl.:	0	**Waste Streams:**	True¿
Parent Co.:	*	**No Streams:**	
No Parent Co.:		**Waste Off Sites:**	False
Pollut Prev Cmnts:	False	**No Off Sites:**	
Stacks:	True	**Shutdown:**	
No of Stacks:		**No of Shutdown:**	
Canadian SIC Code (2 digit):			
Canadian SIC Code:			
SIC Code Description:			
American SIC Code:			
NAICS Code (2 digit):	53		
NAICS 2 Description:	Real estate and rental and leasing		
NAICS Code (4 digit):	5311		
NAICS 4 Description:	Lessors of real estate		
NAICS Code (6 digit):	531120		
NAICS 6 Description:	Lessors of non-residential buildings (except mini-warehouses)		

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33 **3 of 13** **W/48.8** **195.9 / -4.93** **H & R REIT**
7500 LUNDY'S LANE NOT AVAILABLE
NIAGARA FALLS ON L2H1G8 **NPRI**

NPRI ID:	11295	**Org ID:**	50677
Other ID:	*	**Submit Date:**	5/29/2008
No Other ID:		**Last Modified:**	5/29/2015 3:28:24 PM
Track ID:	56076	**Contact ID:**	
Report ID:	119750	**Cont Type:**	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Report Type:	DNMC	**Contact Title:**	
Rpt Type ID:	2	**Cont First Name:**	
Report Year:	2007	**Cont Last Name:**	
Not-Current Rpt?:	No	**Contact Position:**	
Yr of Last Filed Rpt:	2012	**Contact Fax:**	
Fac ID:	157684	**Contact Ph.:**	
Fac Name:	LUNDYS LANE	**Cont Area Code:**	
Fac Address1:	7500 LUNDY'S LANE	**Contact Tel.:**	
Fac Address2:	NOT AVAILABLE	**Contact Ext.:**	
Fac Postal Zip:	L2H1G8	**Cont Fax Area Cde:**	
Facility Lat:	43.0888	**Contact Fax:**	
Facility Long:	-79.1214	**Contact Email:**	
DLS (Last Filed Rpt):		**Latitude:**	43.0888
Facility DLS:		**Longitude:**	-79.1214
Datum:	1983	**UTM Zone:**	
Facility Cmnts:	False	**UTM Northing:**	
URL:		**UTM Easting:**	
No of Empl.:	0	**Waste Streams:**	True¿
Parent Co.:	*	**No Streams:**	
No Parent Co.:		**Waste Off Sites:**	True¿
Pollut Prev Cmnts:	False	**No Off Sites:**	
Stacks:	True	**Shutdown:**	
No of Stacks:		**No of Shutdown:**	
Canadian SIC Code (2 digit):			
Canadian SIC Code:			
SIC Code Description:			
American SIC Code:			
NAICS Code (2 digit):	53		
NAICS 2 Description:	Real estate and rental and leasing		
NAICS Code (4 digit):	5311		
NAICS 4 Description:	Lessors of real estate		
NAICS Code (6 digit):	531120		
NAICS 6 Description:	Lessors of non-residential buildings (except mini-warehouses)		

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33 | ***4 of 13*** | ***W/48.8*** | ***195.9 / -4.93*** | ***H & R REIT***
7500 LUNDY'S LANE NOT AVAILABLE
NIAGARA FALLS ON L2H1G8 | ***NPRI***

NPRI ID:	11295	**Org ID:**	50677
Other ID:	*	**Submit Date:**	5/29/2009
No Other ID:		**Last Modified:**	5/29/2015 3:28:24 PM
Track ID:	68827	**Contact ID:**	
Report ID:	130670	**Cont Type:**	
Report Type:	DNMC	**Contact Title:**	
Rpt Type ID:	2	**Cont First Name:**	
Report Year:	2008	**Cont Last Name:**	
Not-Current Rpt?:	No	**Contact Position:**	
Yr of Last Filed Rpt:	2012	**Contact Fax:**	
Fac ID:	157684	**Contact Ph.:**	
Fac Name:	LUNDYS LANE	**Cont Area Code:**	
Fac Address1:	7500 LUNDY'S LANE	**Contact Tel.:**	
Fac Address2:	NOT AVAILABLE	**Contact Ext.:**	
Fac Postal Zip:	L2H1G8	**Cont Fax Area Cde:**	
Facility Lat:	43.0888	**Contact Fax:**	
Facility Long:	-79.1214	**Contact Email:**	
DLS (Last Filed Rpt):		**Latitude:**	43.0888
Facility DLS:		**Longitude:**	-79.1214
Datum:	1983	**UTM Zone:**	
Facility Cmnts:	No	**UTM Northing:**	
URL:		**UTM Easting:**	
No of Empl.:	0	**Waste Streams:**	No
Parent Co.:	*	**No Streams:**	
No Parent Co.:		**Waste Off Sites:**	No
Pollut Prev Cmnts:	No	**No Off Sites:**	
Stacks:	No	**Shutdown:**	No

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

No of Stacks:		**No of Shutdown:**	
Canadian SIC Code (2 digit):			
Canadian SIC Code:			
SIC Code Description:			
American SIC Code:			
NAICS Code (2 digit):	53		
NAICS 2 Description:	Real estate and rental and leasing		
NAICS Code (4 digit):	5311		
NAICS 4 Description:	Lessors of real estate		
NAICS Code (6 digit):	531120		
NAICS 6 Description:	Lessors of non-residential buildings (except mini-warehouses)		

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33 **5 of 13** **W/48.8** **195.9 / -4.93** **H & R REIT** **NPRI**
7500 LUNDY'S LANE NOT AVAILABLE
NIAGARA FALLS ON L2H1G8

NPRI ID:	11295	**Org ID:**	50677
Other ID:	*	**Submit Date:**	5/31/2010
No Other ID:		**Last Modified:**	5/29/2015 3:28:24 PM
Track ID:	80650	**Contact ID:**	
Report ID:	134391	**Cont Type:**	
Report Type:	DNMC	**Contact Title:**	
Rpt Type ID:	2	**Cont First Name:**	
Report Year:	2009	**Cont Last Name:**	
Not-Current Rpt?:	No	**Contact Position:**	
Yr of Last Filed Rpt:	2012	**Contact Fax:**	
Fac ID:	157684	**Contact Ph.:**	
Fac Name:	LUNDYS LANE	**Cont Area Code:**	
Fac Address1:	7500 LUNDY'S LANE	**Contact Tel.:**	
Fac Address2:	NOT AVAILABLE	**Contact Ext.:**	
Fac Postal Zip:	L2H1G8	**Cont Fax Area Cde:**	
Facility Lat:	43.0888	**Contact Fax:**	
Facility Long:	-79.1214	**Contact Email:**	
DLS (Last Filed Rpt):		**Latitude:**	43.0888
Facility DLS:		**Longitude:**	-79.1214
Datum:	1983	**UTM Zone:**	
Facility Cmnts:	No	**UTM Northing:**	
URL:		**UTM Easting:**	
No of Empl.:	0	**Waste Streams:**	No
Parent Co.:	*	**No Streams:**	
No Parent Co.:		**Waste Off Sites:**	No
Pollut Prev Cmnts:	No	**No Off Sites:**	
Stacks:	No	**Shutdown:**	No
No of Stacks:		**No of Shutdown:**	
Canadian SIC Code (2 digit):			
Canadian SIC Code:			
SIC Code Description:			
American SIC Code:			
NAICS Code (2 digit):	53		
NAICS 2 Description:	Real estate and rental and leasing		
NAICS Code (4 digit):	5311		
NAICS 4 Description:	Lessors of real estate		
NAICS Code (6 digit):	531120		
NAICS 6 Description:	Lessors of non-residential buildings (except mini-warehouses)		

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33 **6 of 13** **W/48.8** **195.9 / -4.93** **H&R REAL ESTATE INVESTMENT TRUST** **NPRI**
7500 LUNDY'S LANE NOT AVAILABLE
NIAGARA FALLS ON L2H1G8

NPRI ID:	11295	**Org ID:**	50696
Other ID:	Y	**Submit Date:**	6/8/2011
No Other ID:	1	**Last Modified:**	5/29/2015 3:28:24 PM
Track ID:	90562	**Contact ID:**	
Report ID:	144620	**Cont Type:**	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Report Type:	DNMC	**Contact Title:**	
Rpt Type ID:	2	**Cont First Name:**	
Report Year:	2010	**Cont Last Name:**	
Not-Current Rpt?:	No	**Contact Position:**	
Yr of Last Filed Rpt:	2012	**Contact Fax:**	
Fac ID:	157684	**Contact Ph.:**	
Fac Name:	LUNDYS LANE	**Cont Area Code:**	
Fac Address1:	7500 LUNDY'S LANE	**Contact Tel.:**	
Fac Address2:	NOT AVAILABLE	**Contact Ext.:**	
Fac Postal Zip:	L2H1G8	**Cont Fax Area Cde:**	
Facility Lat:	43.0888	**Contact Fax:**	
Facility Long:	-79.1214	**Contact Email:**	
DLS (Last Filed Rpt):		**Latitude:**	43.0888
Facility DLS:		**Longitude:**	-79.1214
Datum:	1983	**UTM Zone:**	
Facility Cmnts:	No	**UTM Northing:**	
URL:		**UTM Easting:**	
No of Empl.:	0	**Waste Streams:**	No
Parent Co.:	*	**No Streams:**	
No Parent Co.:		**Waste Off Sites:**	No
Pollut Prev Cmnts:	No	**No Off Sites:**	
Stacks:	No	**Shutdown:**	No
No of Stacks:		**No of Shutdown:**	
Canadian SIC Code (2 digit):			
Canadian SIC Code:			
SIC Code Description:			
American SIC Code:			
NAICS Code (2 digit):	53		
NAICS 2 Description:	Real estate and rental and leasing		
NAICS Code (4 digit):	5311		
NAICS 4 Description:	Lessors of real estate		
NAICS Code (6 digit):	531120		
NAICS 6 Description:	Lessors of non-residential buildings (except mini-warehouses)		

33	***7 of 13***	***W/48.8***	***195.9 / -4.93***	***H&R REAL ESTATE INVESTMENT TRUST 7500 LUNDY'S LANE NOT AVAILABLE NIAGARA FALLS ON L2H1G8***	***NPRI***

NPRI ID:	11295	**Org ID:**	50696
Other ID:		**Submit Date:**	6/29/2012
No Other ID:		**Last Modified:**	5/29/2015 3:28:24 PM
Track ID:	102899	**Contact ID:**	
Report ID:	8069	**Cont Type:**	
Report Type:	DNMC	**Contact Title:**	
Rpt Type ID:	2	**Cont First Name:**	
Report Year:	2011	**Cont Last Name:**	
Not-Current Rpt?:	No	**Contact Position:**	
Yr of Last Filed Rpt:	2012	**Contact Fax:**	
Fac ID:	157684	**Contact Ph.:**	
Fac Name:	LUNDYS LANE	**Cont Area Code:**	
Fac Address1:	7500 LUNDY'S LANE	**Contact Tel.:**	
Fac Address2:	NOT AVAILABLE	**Contact Ext.:**	
Fac Postal Zip:	L2H1G8	**Cont Fax Area Cde:**	
Facility Lat:	43.0888	**Contact Fax:**	
Facility Long:	-79.1214	**Contact Email:**	
DLS (Last Filed Rpt):		**Latitude:**	43.0888
Facility DLS:		**Longitude:**	-79.1214
Datum:	1983	**UTM Zone:**	
Facility Cmnts:		**UTM Northing:**	
URL:		**UTM Easting:**	
No of Empl.:		**Waste Streams:**	
Parent Co.:		**No Streams:**	
No Parent Co.:		**Waste Off Sites:**	
Pollut Prev Cmnts:		**No Off Sites:**	
Stacks:		**Shutdown:**	

No of Stacks:		**No of Shutdown:**	
Canadian SIC Code (2 digit):			
Canadian SIC Code:			
SIC Code Description:			
American SIC Code:			
NAICS Code (2 digit):	53		
NAICS 2 Description:	Real estate and rental and leasing		
NAICS Code (4 digit):	5311		
NAICS 4 Description:	Lessors of real estate		
NAICS Code (6 digit):	531120		
NAICS 6 Description:	Lessors of non-residential buildings (except mini-warehouses)		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
33	8 of 13	W/48.8	195.9 / -4.93	**H & R REIT** **7500 LUNDY'S Lane** **NIAGARA FALLS ON L2H1G8**	NPRI

NPRI ID:	8800001372	**Org ID:**	
Other ID:		**Submit Date:**	
No Other ID:		**Last Modified:**	
Track ID:		**Contact ID:**	
Report ID:		**Cont Type:**	MED
Report Type:		**Contact Title:**	Mr.
Rpt Type ID:		**Cont First Name:**	LARRY
Report Year:	2004	**Cont Last Name:**	MILNE
Not-Current Rpt?:		**Contact Position:**	Chief Engineer
Yr of Last Filed Rpt:		**Contact Fax:**	
Fac ID:		**Contact Ph.:**	
Fac Name:	LUNDYS LANE	**Cont Area Code:**	416
Fac Address1:		**Contact Tel.:**	2240801
Fac Address2:		**Contact Ext.:**	6542
Fac Postal Zip:		**Cont Fax Area Cde:**	416
Facility Lat:		**Contact Fax:**	2242908
Facility Long:		**Contact Email:**	
DLS (Last Filed Rpt):		**Latitude:**	
Facility DLS:		**Longitude:**	
Datum:		**UTM Zone:**	
Facility Cmnts:		**UTM Northing:**	
URL:		**UTM Easting:**	
No of Empl.:	5	**Waste Streams:**	
Parent Co.:		**No Streams:**	
No Parent Co.:		**Waste Off Sites:**	
Pollut Prev Cmnts:		**No Off Sites:**	
Stacks:		**Shutdown:**	
No of Stacks:		**No of Shutdown:**	
Canadian SIC Code (2 digit):			
Canadian SIC Code:			
SIC Code Description:			
American SIC Code:			
NAICS Code (2 digit):	53		
NAICS 2 Description:	Real Estate and Rental and Leasing		
NAICS Code (4 digit):	5311		
NAICS 4 Description:	Lessors of Real Estate		
NAICS Code (6 digit):	531120		
NAICS 6 Description:	Lessors of Non-Residential Buildings (except Mini-Warehouses)		

Substance Release Report

CAS No:	74-82-8
Report ID:	
Rpt Period:	2004
Subst Released:	Methane
Air:	
Water:	
Land:	

Total Releases:
Units: tonnes

CAS No: 10024-97-2
Report ID:
Rpt Period: 2004
Subst Released: Nitrous oxide
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: 124-38-9
Report ID:
Rpt Period: 2004
Subst Released: Carbon dioxide
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: NA - M09
Report ID:
Rpt Period: 2004
Subst Released: PM10 - Particulate Matter <= 10 Microns
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: 811-97-2
Report ID:
Rpt Period: 2004
Subst Released: HFC-134a Hydrofluorocarbon
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: NA - M08
Report ID:
Rpt Period: 2004
Subst Released: PM - Total Particulate Matter
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: NA - M10
Report ID:
Rpt Period: 2004
Subst Released: PM2.5 - Particulate Matter <= 2.5 Microns
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: 7446-09-5
Report ID:
Rpt Period: 2004

Subst Released:	Sulphur dioxide
Air:	
Water:	
Land:	
Total Releases:	
Units:	tonnes
CAS No:	11104-93-1
Report ID:	
Rpt Period:	2004
Subst Released:	Nitrogen oxides (expressed as NO2)
Air:	
Water:	
Land:	
Total Releases:	
Units:	tonnes
CAS No:	630-08-0
Report ID:	
Rpt Period:	2004
Subst Released:	Carbon monoxide
Air:	
Water:	
Land:	
Total Releases:	
Units:	tonnes
CAS No:	NA - M16
Report ID:	
Rpt Period:	2004
Subst Released:	Volatile Organic Compounds (VOCs)
Air:	
Water:	
Land:	
Total Releases:	
Units:	tonnes

33	***9 of 13***	***W/48.8***	***195.9 / -4.93***	***H&R REAL ESTATE INVESTMENT TRUST 7500 LUNDY'S LANE NOT AVAILABLE NIAGARA FALLS ON L2H1G8***	***NPRI***

NPRI ID:	11295	**Org ID:**	50696
Other ID:		**Submit Date:**	6/3/2013
No Other ID:		**Last Modified:**	5/29/2015 3:28:24 PM
Track ID:	107860	**Contact ID:**	
Report ID:	23038	**Cont Type:**	
Report Type:	DNMC	**Contact Title:**	
Rpt Type ID:	2	**Cont First Name:**	
Report Year:	2012	**Cont Last Name:**	
Not-Current Rpt?:	No	**Contact Position:**	
Yr of Last Filed Rpt:	2012	**Contact Fax:**	
Fac ID:	157684	**Contact Ph.:**	
Fac Name:	LUNDYS LANE	**Cont Area Code:**	
Fac Address1:	7500 LUNDY'S LANE	**Contact Tel.:**	
Fac Address2:	NOT AVAILABLE	**Contact Ext.:**	
Fac Postal Zip:	L2H1G8	**Cont Fax Area Cde:**	
Facility Lat:	43.0888	**Contact Fax:**	
Facility Long:	-79.1214	**Contact Email:**	
DLS (Last Filed Rpt):		**Latitude:**	43.0888
Facility DLS:		**Longitude:**	-79.1214
Datum:	1983	**UTM Zone:**	
Facility Cmnts:		**UTM Northing:**	
URL:		**UTM Easting:**	
No of Empl.:		**Waste Streams:**	
Parent Co.:		**No Streams:**	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

No Parent Co.:		**Waste Off Sites:**	
Pollut Prev Cmnts:		**No Off Sites:**	
Stacks:		**Shutdown:**	
No of Stacks:		**No of Shutdown:**	
Canadian SIC Code (2 digit):			
Canadian SIC Code:			
SIC Code Description:			
American SIC Code:			
NAICS Code (2 digit):	53		
NAICS 2 Description:	Real estate and rental and leasing		
NAICS Code (4 digit):	5311		
NAICS 4 Description:	Lessors of real estate		
NAICS Code (6 digit):	531120		
NAICS 6 Description:	Lessors of non-residential buildings (except mini-warehouses)		

33	**10 of 13**	**W/48.8**	**195.9 / -4.93**	**Enbridge Gas Distribution Inc.** **7500 Lundy's Lane** **Niagara Falls ON**	**SPL**

Ref No:	8375-ARRNTT	**Discharger Report:**	
Site No:	NA	**Material Group:**	
Incident Dt:	10/2/2017	**Health/Env Conseq:**	2 - Minor Environment
Year:		**Client Type:**	Corporation
Incident Cause:		**Sector Type:**	Miscellaneous Industrial
Incident Event:	Leak/Break	**Agency Involved:**	
Contaminant Code:	35	**Nearest Watercourse:**	
Contaminant Name:	NATURAL GAS (METHANE)	**Site Address:**	7500 Lundy's Lane
Contaminant Limit 1:		**Site District Office:**	Niagara
Contam Limit Freq 1:		**Site Postal Code:**	
Contaminant UN No 1:	1075	**Site Region:**	West Central
Environment Impact:		**Site Municipality:**	Niagara Falls
Nature of Impact:		**Site Lot:**	
Receiving Medium:		**Site Conc:**	
Receiving Env:	Air	**Northing:**	4772411.38
MOE Response:	No	**Easting:**	652884.52
Dt MOE Arvl on Scn:		**Site Geo Ref Accu:**	
MOE Reported Dt:	10/2/2017	**Site Map Datum:**	
Dt Document Closed:		**SAC Action Class:**	TSSA - Fuel Safety Branch - Hydrocarbon Fuel Release/Spill
Incident Reason:	Operator/Human Error	**Source Type:**	Valve/Fitting/Piping
Site Name:	Site of line strike<UNOFFICIAL>		
Site County/District:	Regional Municipality of Niagara		
Site Geo Ref Meth:			
Incident Summary:	TSSA FSB; 1 ¼" pl, IP, commercial main dmgd; made safe		
Contaminant Qty:	0 other - see incident description		

33	**11 of 13**	**W/48.8**	**195.9 / -4.93**	**7500 Lundy's Lane** **Niagara Falls ON L2H 1G8**	**EHS**

Order No:	20200122026	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Standard Report	**Client Prov/State:**	ON
Report Date:	27-JAN-20	**Search Radius (km):**	.25
Date Received:	22-JAN-20	**X:**	-79.1205002
Previous Site Name:		**Y:**	43.0875213
Lot/Building Size:			
Additional Info Ordered:	Fire Insur. Maps and/or Site Plans		

33	**12 of 13**	**W/48.8**	**195.9 / -4.93**	**7500 Lundy's Lane** **Niagara Falls ON L2H 1G8**	**EHS**

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Order No:	20200122026	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Standard Report	**Client Prov/State:**	ON
Report Date:	27-JAN-20	**Search Radius (km):**	.25
Date Received:	22-JAN-20	**X:**	-79.1205002
Previous Site Name:		**Y:**	43.0875213
Lot/Building Size:			
Additional Info Ordered:	Fire Insur. Maps and/or Site Plans		

33	13 of 13	W/48.8	195.9 / -4.93	**PIPELINE HIT 1 1/4"** **7500 LUNDY'S LN,,NIAGARA FALLS,ON,L2H 1G8,CA** **ON**	PINC

Incident ID:		**Pipe Material:**	
Incident No:	2165726	**Fuel Category:**	
Incident Reported Dt:	10/2/2017	**Health Impact:**	
Type:	FS-Pipeline Incident	**Environment Impact:**	
Status Code:		**Property Damage:**	
Tank Status:	Pipeline Damage Reason Est	**Service Interrupt:**	
Task No:		**Enforce Policy:**	
Spills Action Centre:		**Public Relation:**	
Fuel Type:		**Pipeline System:**	
Fuel Occurrence Tp:		**PSIG:**	
Date of Occurrence:		**Attribute Category:**	
Occurrence Start Dt:		**Regulator Location:**	
Depth:		**Method Details:**	
Customer Acct Name:	PIPELINE HIT 1 1/4"		
Incident Address:	7500 LUNDY'S LN,,NIAGARA FALLS,ON,L2H 1G8,CA		
Operation Type:			
Pipeline Type:			
Regulator Type:			
Summary:			
Reported By:			
Affiliation:			
Occurrence Desc:			
Damage Reason:			
Notes:			

35	1 of 3	E/33.1	204.8 / 4.00	**ROYAL LINEN SERVICES** **6710 LUNDY'S LANE** **NIAGARA FALLS ON L2G 1V5**	GEN

Generator No:	ON0409000	**PO Box No:**	
Status:		**Country:**	
Approval Years:	86,87,88,89,90	**Choice of Contact:**	
Contam. Facility:		**Co Admin:**	
MHSW Facility:		**Phone No Admin:**	
SIC Code:	9725		
SIC Description:	LINEN SUPPLY		

Detail(s)

Waste Class:	241
Waste Class Desc:	HALOGENATED SOLVENTS

35	2 of 3	E/33.1	204.8 / 4.00	**ROYAL LINEN SERVICES** **6710 LUNDY'S LANE** **NIAGARA FALLS ON L2G 1V5**	GEN

Generator No:	ON0409000	**PO Box No:**	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Status: **Country:**
Approval Years: 92,93,97,98,99,00,01 **Choice of Contact:**
Contam. Facility: **Co Admin:**
MHSW Facility: **Phone No Admin:**
SIC Code: 9725
SIC Description: LINEN SUPPLY

Detail(s)

Waste Class: 241
Waste Class Desc: HALOGENATED SOLVENTS

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35 | **3 of 3** | **E/33.1** | **204.8 / 4.00** | **ROYAL LINEN SERVICES 33-079**
6710 LUNDY'S LANE
NIAGARA FALLS ON L2G 1V5 | **GEN**

Generator No: ON0409000 **PO Box No:**
Status: **Country:**
Approval Years: 94,95,96 **Choice of Contact:**
Contam. Facility: **Co Admin:**
MHSW Facility: **Phone No Admin:**
SIC Code: 9725
SIC Description: LINEN SUPPLY

Detail(s)

Waste Class: 241
Waste Class Desc: HALOGENATED SOLVENTS

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36 | **1 of 1** | **E/32.2** | **204.0 / 3.19** | **1176892 ONTARIO LTD., O/A LICK'S**
6713 LUNDY'S LANE, LOT 5
NIAGARA FALLS CITY ON L2G 1V4 | **CA**

Certificate #: 8-2095-96-
Application Year: 96
Issue Date: 5/17/1996
Approval Type: Industrial air
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description: COMMERCIAL KITCHEN EXHAUST HOOD
Contaminants: Odour/Fumes
Emission Control: No Controls

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37 | **1 of 1** | **E/49.9** | **204.8 / 4.00** | **ON** | **WWIS**

Well ID: 7168755 **Data Entry Status:** Yes
Construction Date: **Data Src:**
Primary Water Use: **Date Received:** 9/16/2011
Sec. Water Use: **Selected Flag:** True
Final Well Status: **Abandonment Rec:**
Water Type: **Contractor:** 6607
Casing Material: **Form Version:** 5
Audit No: M08584 **Owner:**
Tag: A110260 **Street Name:**
Construction Method: **County:** NIAGARA
Elevation (m): **Municipality:** NIAGARA FALLS CITY (STAMFORD)

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	
Well Depth:		**Concession:**	
Overburden/Bedrock:		**Concession Name:**	
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/716\7168755.pdf

Additional Detail(s) (Map)

Well Completed Date:	2011/07/20
Year Completed:	2011
Depth (m):	
Latitude:	43.0887680490031
Longitude:	-79.1067165015101
Path:	716\7168755.pdf

Bore Hole Information

Bore Hole ID:	1003568086	**Elevation:**	205.364776
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	654098.00
Code OB Desc:		**North83:**	4772412.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	3
Date Completed:	20-Jul-2011 00:00:00	**UTMRC Desc:**	margin of error : 10 - 30 m
Remarks:		**Location Method:**	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

39	1 of 3	E/12.2	204.8 / 4.00	**6666 Lundy's Lane** **Niagara Falls ON L2G 1V5**	**EHS**

Order No:	20080526007	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Custom Report	**Client Prov/State:**	ON
Report Date:	6/3/2008	**Search Radius (km):**	0.25
Date Received:	5/26/2008	**X:**	-79.106429
Previous Site Name:		**Y:**	43.089112
Lot/Building Size:			
Additional Info Ordered:			

39	2 of 3	E/12.2	204.8 / 4.00	**CARA OPERATIONS LIMITED** **6666 LUNDY'S LANE** **NIAGARA FALLS ON**	**GEN**

Generator No:	ON2570587	**PO Box No:**	
Status:		**Country:**	
Approval Years:	2012	**Choice of Contact:**	
Contam. Facility:		**Co Admin:**	
MHSW Facility:		**Phone No Admin:**	
SIC Code:	551113		
SIC Description:	Holding Companies		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
39	3 of 3	E/12.2	204.8 / 4.00	SWISS CHALET ROTISSERIE & GRILL 6666 LUNDY'S LANE NIAGARA FALLS ON L2G 1V5	GEN

Generator No: ON5561647
Status: Registered
Approval Years: As of Dec 2018
Contam. Facility:
MHSW Facility:
SIC Code:
SIC Description:

PO Box No:
Country: Canada
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 150 L
Waste Class Desc: Inert organic wastes

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
41	1 of 16	E/33.9	204.8 / 4.00	GALES GAS BARS LTD 6644 LUNDYS LA NIAGARA FALLS ON L2G 1V2	PRT

Location ID: 9846
Type: retail
Expiry Date: 1996-02-28
Capacity (L): 20392
Licence #: 0052420001

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
41	2 of 16	E/33.9	204.8 / 4.00	GALE'S GAS BARS LTD 6644 LUNDY'S LANE NIAGARA FALLS ON L2G 1V2	RST

Headcode: 01186800
Headcode Desc: SERVICE STATIONS-GASOLINE, OIL & NATURAL GAS
Phone:
List Name:
Description:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
41	3 of 16	E/33.9	204.8 / 4.00	LUBE-KING 6644 LUNDY'S LANE NIAGARA FALLS ON L2G 1V2	RST

Headcode: 00921430
Headcode Desc: OIL CHANGES & LUBRICATION SERVICE
Phone:
List Name:
Description:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
41	4 of 16	E/33.9	204.8 / 4.00	GALES GAS BARS LTD 6644 LUNDY'S LANE NIAGARA FALLS ON L2G 1V2	FSTH

License Issue Date: 9/3/2002
Tank Status: Licensed
Tank Status As Of: August 2007
Operation Type: Retail Fuel Outlet
Facility Type: Gasoline Station - Full Serve

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

--Details--
Status: Active
Year of Installation: 1986
Corrosion Protection:
Capacity: 36000
Tank Fuel Type: Liquid Fuel Single Wall UST - Gasoline

Status: Active
Year of Installation: 1986
Corrosion Protection:
Capacity: 36000
Tank Fuel Type: Liquid Fuel Single Wall UST - Gasoline

Status: Active
Year of Installation: 1986
Corrosion Protection:
Capacity: 22700
Tank Fuel Type: Liquid Fuel Single Wall UST - Gasoline

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41 | ***5 of 16*** | ***E/33.9*** | ***204.8 / 4.00*** | ***GALES GAS BARS LTD****
6644 LUNDY'S LANE
NIAGARA FALLS ON L2G 1V2 | ***FSTH***

License Issue Date: 9/3/2002
Tank Status: Licensed
Tank Status As Of: December 2008
Operation Type: Retail Fuel Outlet
Facility Type: Gasoline Station - Full Serve

--Details--
Status: Active
Year of Installation: 1986
Corrosion Protection:
Capacity: 36000
Tank Fuel Type: Liquid Fuel Single Wall UST - Gasoline

Status: Active
Year of Installation: 1986
Corrosion Protection:
Capacity: 36000
Tank Fuel Type: Liquid Fuel Single Wall UST - Gasoline

Status: Active
Year of Installation: 1986
Corrosion Protection:
Capacity: 22700
Tank Fuel Type: Liquid Fuel Single Wall UST - Gasoline

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41 | ***6 of 16*** | ***E/33.9*** | ***204.8 / 4.00*** | ***GALE'S GAS BARS LIMITED***
6644 LUNDY'S LANE NIAGARA FALLS L2G 1V2
ON CA
ON | ***FST***

Instance No: 11457450
Status:
Cont Name:
Instance Type: FS Liquid Fuel Tank
Item: FS LIQUID FUEL TANK
Item Description: FS Liquid Fuel Tank
Tank Type: Single Wall UST
Install Date: 6/10/2009

Manufacturer:
Serial No:
Ulc Standard:
Quantity:
Unit of Measure:
Fuel Type: Gasoline
Fuel Type2: NULL
Fuel Type3: NULL

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Install Year:	1986	**Piping Steel:**	
Years in Service:		**Piping Galvanized:**	
Model:	NULL	**Tanks Single Wall St:**	
Description:		**Piping Underground:**	
Capacity:	36000	**Num Underground:**	
Tank Material:	Steel	**Panam Related:**	
Corrosion Protect:		**Panam Venue:**	
Overfill Protect:			

Facility Type: FS Liquid Fuel Tank
Parent Facility Type: FS Gasoline Station - Full Serve
Facility Location:
Device Installed Location: 6644 LUNDY'S LANE NIAGARA FALLS L2G 1V2 ON CA

Fuel Storage Tank Details

Owner Account Name: GALE'S GAS BARS LIMITED

Liquid Fuel Tank Details

Overfill Protection:
Owner Account Name: GALE'S GAS BARS LIMITED
Item: FS LIQUID FUEL TANK

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
41	7 of 16	E/33.9	204.8 / 4.00	GALE'S GAS BARS LIMITED 6644 LUNDY'S LANE NIAGARA FALLS L2G 1V2 ON CA ON	FST

Instance No:	11457470	**Manufacturer:**	
Status:		**Serial No:**	
Cont Name:		**Ulc Standard:**	
Instance Type:	FS Liquid Fuel Tank	**Quantity:**	
Item:	FS LIQUID FUEL TANK	**Unit of Measure:**	
Item Description:	FS Liquid Fuel Tank	**Fuel Type:**	Gasoline
Tank Type:	Single Wall UST	**Fuel Type2:**	NULL
Install Date:	6/10/2009	**Fuel Type3:**	NULL
Install Year:	1986	**Piping Steel:**	
Years in Service:		**Piping Galvanized:**	
Model:	NULL	**Tanks Single Wall St:**	
Description:		**Piping Underground:**	
Capacity:	22700	**Num Underground:**	
Tank Material:	Steel	**Panam Related:**	
Corrosion Protect:		**Panam Venue:**	
Overfill Protect:			

Facility Type: FS Liquid Fuel Tank
Parent Facility Type: FS Gasoline Station - Full Serve
Facility Location:
Device Installed Location: 6644 LUNDY'S LANE NIAGARA FALLS L2G 1V2 ON CA

Fuel Storage Tank Details

Owner Account Name: GALE'S GAS BARS LIMITED

Liquid Fuel Tank Details

Overfill Protection:
Owner Account Name: GALE'S GAS BARS LIMITED
Item: FS LIQUID FUEL TANK

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
41	8 of 16	E/33.9	204.8 / 4.00	GALE'S GAS BARS LIMITED 6644 LUNDY'S LANE NIAGARA FALLS L2G 1V2	FST

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
				ON CA ON	

Instance No:	10875030	**Manufacturer:**	
Status:		**Serial No:**	
Cont Name:		**Ulc Standard:**	
Instance Type:	FS Liquid Fuel Tank	**Quantity:**	
Item:	FS LIQUID FUEL TANK	**Unit of Measure:**	
Item Description:	FS Liquid Fuel Tank	**Fuel Type:**	Gasoline
Tank Type:	Single Wall UST	**Fuel Type2:**	NULL
Install Date:	6/10/2009	**Fuel Type3:**	NULL
Install Year:	1986	**Piping Steel:**	
Years in Service:		**Piping Galvanized:**	
Model:	NULL	**Tanks Single Wall St:**	
Description:		**Piping Underground:**	
Capacity:	36000	**Num Underground:**	
Tank Material:	Steel	**Panam Related:**	
Corrosion Protect:		**Panam Venue:**	
Overfill Protect:			

Facility Type: FS Liquid Fuel Tank
Parent Facility Type: FS Gasoline Station - Full Serve
Facility Location:
Device Installed Location: 6644 LUNDY'S LANE NIAGARA FALLS L2G 1V2 ON CA

Fuel Storage Tank Details

Owner Account Name: GALE'S GAS BARS LIMITED

Liquid Fuel Tank Details

Overfill Protection:
Owner Account Name: GALE'S GAS BARS LIMITED
Item: FS LIQUID FUEL TANK

41	9 of 16	E/33.9	204.8 / 4.00	LUBE-KING 6644 LUNDY'S LANE NIAGARA FALLS ON L2G1V2	RST

Headcode: 00921430
Headcode Desc: OIL CHANGES & LUBRICATION SERVICE
Phone: 9053585823
List Name:
Description:

41	10 of 16	E/33.9	204.8 / 4.00	GALE'S GAS BARS LTD 6644 LUNDY'S LANE NIAGARA FALLS ON L2G1V2	RST

Headcode: 01186800
Headcode Desc: SERVICE STATIONS GASOLINE OIL & NATURAL GAS
Phone: 9053579467
List Name: INFO-DIRECT(TM) BUSINESS FILE
Description:

41	11 of 16	E/33.9	204.8 / 4.00	Gales Gas Bar Ltd 6644 Lundy's Lane Niagara Falls ON L2G1R2	GEN

Generator No:	ON5939067	**PO Box No:**	
Status:	Registered	**Country:**	Canada

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Approval Years: As of Oct 2019
Contam. Facility:
MHSW Facility:
SIC Code:
SIC Description:
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 221 I
Waste Class Desc: Light fuels

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41 | ***12 of 16*** | ***E/33.9*** | ***204.8 / 4.00*** | ***GALE'S GAS BARS LIMITED***
6644 LUNDY'S LANE NIAGARA FALLS L2G 1V2
ON CA
ON | ***DTNK***

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41 | ***13 of 16*** | ***E/33.9*** | ***204.8 / 4.00*** | ***GALE'S GAS BARS LIMITED***
6644 LUNDY'S LANE NIAGARA FALLS L2G 1V2
ON CA
ON | ***DTNK***

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41 | ***14 of 16*** | ***E/33.9*** | ***204.8 / 4.00*** | ***GALE'S GAS BARS LIMITED***
6644 LUNDY'S LANE NIAGARA FALLS L2G 1V2
ON CA
ON | ***DTNK***

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41 | ***15 of 16*** | ***E/33.9*** | ***204.8 / 4.00*** | ***6644 LUNDY'S LANE***
NIAGARA FALLS ON L2G 1V2 | ***FST***

Instance No: 9735781
Status: Active
Cont Name:
Instance Type:
Item: FS GASOLINE STATION - FULL SERVE
Item Description:
Tank Type:
Install Date:
Install Year:
Years in Service:
Model:
Description:
Capacity:
Tank Material:
Corrosion Protect:
Overfill Protect:
Facility Type:
Parent Facility Type:
Facility Location:
Device Installed Location:

Manufacturer:
Serial No:
Ulc Standard:
Quantity:
Unit of Measure:
Fuel Type:
Fuel Type2:
Fuel Type3:
Piping Steel: 0
Piping Galvanized: 0
Tanks Single Wall St: 0
Piping Underground: 2
Num Underground: 1
Panam Related:
Panam Venue:

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41 | ***16 of 16*** | ***E/33.9*** | ***204.8 / 4.00*** | ***GALE'S GAS BARS LIMITED***
6644 LUNDY'S LANE NIAGARA FALLS L2G 1V2
ON CA
ON | ***FST***

Instance No: 64878233
Status:
Cont Name:

Manufacturer:
Serial No:
Ulc Standard:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Instance Type:		**Quantity:**	
Item:	FS LIQUID FUEL TANK	**Unit of Measure:**	
Item Description:	FS Liquid Fuel Tank	**Fuel Type:**	Gasoline
Tank Type:	Double Wall UST	**Fuel Type2:**	Gasoline
Install Date:	3/22/2019 9:03:41 AM	**Fuel Type3:**	NULL
Install Year:	2019	**Piping Steel:**	
Years in Service:		**Piping Galvanized:**	
Model:	NULL	**Tanks Single Wall St:**	
Description:		**Piping Underground:**	
Capacity:	103000	**Num Underground:**	
Tank Material:	Fiberglass (FRP)	**Panam Related:**	
Corrosion Protect:		**Panam Venue:**	
Overfill Protect:			
Facility Type:	FS Liquid Fuel Tank		
Parent Facility Type:			
Facility Location:			
Device Installed Location:	6644 LUNDY'S LANE NIAGARA FALLS L2G 1V2 ON CA		

Fuel Storage Tank Details

Owner Account Name: GALE'S GAS BARS LIMITED

Liquid Fuel Tank Details

Overfill Protection:	
Owner Account Name:	GALE'S GAS BARS LIMITED
Item:	FS LIQUID FUEL TANK

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42 | **1 of 1** | **E/21.3** | **204.5 / 3.68** | **Empire Dental Clinic**
6641 Lundys Lane
Niagara Falls ON L2G 1V3 | **GEN**

Generator No:	ON4445649	**PO Box No:**	
Status:	Registered	**Country:**	Canada
Approval Years:	As of Aug 2021	**Choice of Contact:**	
Contam. Facility:		**Co Admin:**	
MHSW Facility:		**Phone No Admin:**	
SIC Code:			
SIC Description:			

Detail(s)

Waste Class:	264 L
Waste Class Desc:	Photoprocessing wastes
Waste Class:	312 P
Waste Class Desc:	Pathological wastes
Waste Class:	264 T
Waste Class Desc:	Photoprocessing wastes

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43 | **1 of 3** | **E/20.9** | **204.5 / 3.68** | **6641 Lundy's Lane**
Niagara Falls ON L2G 1V3 | **EHS**

Order No:	20292100012	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Standard Report	**Client Prov/State:**	ON
Report Date:	24-SEP-20	**Search Radius (km):**	.25
Date Received:	21-SEP-20	**X:**	-79.105741
Previous Site Name:		**Y:**	43.0896
Lot/Building Size:			
Additional Info Ordered:	Fire Insur. Maps and/or Site Plans		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

43	2 of 3	E/20.9	204.5 / 3.68	6641 Lundy's Lane Niagara Falls ON L2G 1V3	EHS

Order No:	20292100012	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Standard Report	**Client Prov/State:**	ON
Report Date:	24-SEP-20	**Search Radius (km):**	.25
Date Received:	21-SEP-20	**X:**	-79.105741
Previous Site Name:		**Y:**	43.0896
Lot/Building Size:			
Additional Info Ordered:	Fire Insur. Maps and/or Site Plans		

43	3 of 3	E/20.9	204.5 / 3.68	6641 Lundy's Lane Niagara Falls ON L2G 1V3	EHS

Order No:	20292100012	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Standard Report	**Client Prov/State:**	ON
Report Date:	24-SEP-20	**Search Radius (km):**	.25
Date Received:	21-SEP-20	**X:**	-79.105741
Previous Site Name:		**Y:**	43.0896
Lot/Building Size:			
Additional Info Ordered:	Fire Insur. Maps and/or Site Plans		

44	1 of 4	E/20.0	205.4 / 4.56	6624 Lundy's Lane Niagara Falls ON L2G 1V2	EHS

Order No:	20200804297	**Nearest Intersection:**	
Status:	C	**Municipality:**	Niagara Region, Niagara Falls
Report Type:	Standard Report	**Client Prov/State:**	ON
Report Date:	07-AUG-20	**Search Radius (km):**	.25
Date Received:	04-AUG-20	**X:**	-79.1054991
Previous Site Name:		**Y:**	43.0890568
Lot/Building Size:			
Additional Info Ordered:	Fire Insur. Maps and/or Site Plans; Title Searches; City Directory		

44	2 of 4	E/20.0	205.4 / 4.56	6624 Lundy's Lane Niagara Falls ON L2G 1V2	EHS

Order No:	20200804297	**Nearest Intersection:**	
Status:	C	**Municipality:**	Niagara Region, Niagara Falls
Report Type:	Standard Report	**Client Prov/State:**	ON
Report Date:	07-AUG-20	**Search Radius (km):**	.25
Date Received:	04-AUG-20	**X:**	-79.1054991
Previous Site Name:		**Y:**	43.0890568
Lot/Building Size:			
Additional Info Ordered:	Fire Insur. Maps and/or Site Plans; Title Searches; City Directory		

44	3 of 4	E/20.0	205.4 / 4.56	6624 Lundy's Lane Niagara Falls ON L2G 1V2	EHS

Order No:	20200804297	**Nearest Intersection:**	
Status:	C	**Municipality:**	Niagara Region, Niagara Falls
Report Type:	Standard Report	**Client Prov/State:**	ON
Report Date:	07-AUG-20	**Search Radius (km):**	.25
Date Received:	04-AUG-20	**X:**	-79.1054991

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Previous Site Name: | **Y:** 43.0890568
Lot/Building Size:
Additional Info Ordered: Fire Insur. Maps and/or Site Plans; Title Searches; City Directory

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44 | **4 of 4** | **E/20.0** | **205.4 / 4.56** | **6624 Lundy's Lane**
Niagara Falls ON L2G 1V2 | **EHS**

Order No: 20200804297 | **Nearest Intersection:**
Status: C | **Municipality:** Niagara Region, Niagara Falls
Report Type: Standard Report | **Client Prov/State:** ON
Report Date: 07-AUG-20 | **Search Radius (km):** .25
Date Received: 04-AUG-20 | **X:** -79.1054991
Previous Site Name: | **Y:** 43.0890568
Lot/Building Size:
Additional Info Ordered: Fire Insur. Maps and/or Site Plans; Title Searches; City Directory

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46 | **1 of 1** | **W/46.6** | **194.8 / -6.00** | **Vommero Enterprises**
Comfort Inn 7514 Lundys Lane
Niagara Falls ON L2H1G8 | **GEN**

Generator No: ON7890109 | **PO Box No:**
Status: | **Country:**
Approval Years: 07,08 | **Choice of Contact:**
Contam. Facility: | **Co Admin:**
MHSW Facility: | **Phone No Admin:**
SIC Code: 721111
SIC Description: Hotels

Detail(s)

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

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47 | **1 of 1** | **E/4.1** | **205.8 / 5.00** | **ON** | **WWIS**

Well ID: 7050956 | **Data Entry Status:**
Construction Date: | **Data Src:**
Primary Water Use: | **Date Received:** 10/22/2007
Sec. Water Use: | **Selected Flag:** True
Final Well Status: Observation Wells | **Abandonment Rec:**
Water Type: | **Contractor:** 7190
Casing Material: | **Form Version:** 3
Audit No: Z54304 | **Owner:**
Tag: A044740 | **Street Name:**
Construction Method: | **County:** NIAGARA
Elevation (m): | **Municipality:** NIAGARA FALLS CITY (STAMFORD)
Elevation Reliability: | **Site Info:**
Depth to Bedrock: | **Lot:**
Well Depth: | **Concession:**
Overburden/Bedrock: | **Concession Name:**
Pump Rate: | **Easting NAD83:**
Static Water Level: | **Northing NAD83:**
Flowing (Y/N): | **Zone:**
Flow Rate: | **UTM Reliability:**
Clear/Cloudy:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/705\7050956.pdf

Additional Detail(s) (Map)

Well Completed Date:	2007/09/07
Year Completed:	2007
Depth (m):	21
Latitude:	43.0894968533475
Longitude:	-79.1045071257767
Path:	705\7050956.pdf

Bore Hole Information

Bore Hole ID:	23050956	***Elevation:***	205.325088
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	654276.00
Code OB Desc:		***North83:***	4772497.00
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	3
Date Completed:	07-Sep-2007 00:00:00	***UTMRC Desc:***	margin of error : 10 - 30 m
Remarks:		***Location Method:***	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	30150956
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	06
Mat2 Desc:	SILT
Mat3:	66
Mat3 Desc:	DENSE
Formation Top Depth:	0.0
Formation End Depth:	21.0
Formation End Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	44006512
Layer:	1
Plug From:	3
Plug To:	3.90000009536743
Plug Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	44006511
Layer:	2
Plug From:	15.1499996185303
Plug To:	16.1499996185303
Plug Depth UOM:	m

Method of Construction & Well

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Use

Method Construction ID: 25950956
Method Construction Code: 2
Method Construction: Rotary (Convent.)
Other Method Construction:

Pipe Information

Pipe ID: 29050956
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 42150956
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0
Depth To: 17.6000003814697
Casing Diameter: 4.90000009536743
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 43150956
Layer: 1
Slot: 40
Screen Top Depth: 17.6000003814697
Screen End Depth: 21
Screen Material: 5
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter: 5.19999980926514

Water Details

Water ID: 41150956
Layer: 1
Kind Code:
Kind:
Water Found Depth: 19.0
Water Found Depth UOM: m

Hole Diameter

Hole ID: 46005039
Diameter: 20.0
Depth From: 0.0
Depth To: 21.0
Hole Depth UOM: m
Hole Diameter UOM: cm

48	*1 of 9*	*E/42.1*	*205.6 / 4.79*	***SHOPPERS DRUG MART #0799 (BATTLEFIELD PLAZA)*** ***6565 LUNDY'S LANE*** ***NIAGARA FALLS ON L2G 1V1***	*PES*

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Detail Licence No:		***Operator Box:***	
Licence No:		***Operator Class:***	
Status:		***Operator No:***	
Approval Date:		***Operator Type:***	
Report Source:		***Oper Area Code:***	
Licence Type:	Vendor	***Oper Phone No:***	
Licence Type Code:		***Operator Ext:***	
Licence Class:		***Operator Lot:***	
Licence Control:		***Oper Concession:***	
Latitude:		***Operator Region:***	
Longitude:		***Operator District:***	
Lot:		***Operator County:***	
Concession:		***Op Municipality:***	
Region:		***Post Office Box:***	
District:		***MOE District:***	
County:		***SWP Area Name:***	
Trade Name:			
PDF Link:			
PDF Site Location:			

48	***2 of 9***	***E/42.1***	***205.6 / 4.79***	***SHOPPERS DRUG MART #0799 (BATTLEFIELD PLAZA)*** ***6565 LUNDY'S LANE*** ***NIAGARA FALLS ON L2G 1V1***	***PES***

Detail Licence No:	23-01-12839-0	***Operator Box:***	
Licence No:		***Operator Class:***	
Status:		***Operator No:***	
Approval Date:		***Operator Type:***	
Report Source:		***Oper Area Code:***	
Licence Type:	LIMITED	***Oper Phone No:***	
Licence Type Code:		***Operator Ext:***	
Licence Class:		***Operator Lot:***	
Licence Control:		***Oper Concession:***	
Latitude:		***Operator Region:***	
Longitude:		***Operator District:***	
Lot:		***Operator County:***	
Concession:		***Op Municipality:***	
Region:		***Post Office Box:***	
District:		***MOE District:***	
County:		***SWP Area Name:***	
Trade Name:			
PDF Link:			
PDF Site Location:			

48	***3 of 9***	***E/42.1***	***205.6 / 4.79***	***SHOPPERS DRUG MART #0799 (BATTLEFIELD PLAZA)*** ***6565 LUNDY'S LANE*** ***NIAGARA FALLS ON L2G1V1***	***PES***

Detail Licence No:		***Operator Box:***	
Licence No:	16752	***Operator Class:***	
Status:		***Operator No:***	
Approval Date:		***Operator Type:***	
Report Source:	Legacy Licenses (Excluding TS)	***Oper Area Code:***	905
Licence Type:	Limited Vendor	***Oper Phone No:***	3543845
Licence Type Code:	23	***Operator Ext:***	
Licence Class:	01	***Operator Lot:***	
Licence Control:		***Oper Concession:***	
Latitude:		***Operator Region:***	
Longitude:		***Operator District:***	
Lot:		***Operator County:***	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Concession:
Region:
District:
County:
Trade Name:
PDF Link:
PDF Site Location:

Op Municipality:
Post Office Box:
MOE District:
SWP Area Name:

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48 **4 of 9** **E/42.1** **205.6 / 4.79**

N. Ferguson Drugs Ltd.
6565 LUNDY'S LANE
NIAGARA FALLS ON L2G 1V1

GEN

Generator No: ON8468883
Status:
Approval Years: 2016
Contam. Facility: No
MHSW Facility: No
SIC Code: 446110
SIC Description: 446110

PO Box No:
Country: Canada
Choice of Contact: CO_ADMIN
Co Admin: Nastran Najafi-Fard
Phone No Admin: 416-493-1220 Ext.3218

Detail(s)

Waste Class: 312
Waste Class Desc: PATHOLOGICAL WASTES

Waste Class: 261
Waste Class Desc: PHARMACEUTICALS

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48 **5 of 9** **E/42.1** **205.6 / 4.79**

N. Ferguson Drugs Ltd.
6565 LUNDY'S LANE
NIAGARA FALLS ON L2G 1V1

GEN

Generator No: ON8468883
Status:
Approval Years: 2015
Contam. Facility: No
MHSW Facility: No
SIC Code: 446110
SIC Description: 446110

PO Box No:
Country: Canada
Choice of Contact: CO_ADMIN
Co Admin: Nastran Najafi-Fard
Phone No Admin: 416-493-1220 Ext.3218

Detail(s)

Waste Class: 312
Waste Class Desc: PATHOLOGICAL WASTES

Waste Class: 261
Waste Class Desc: PHARMACEUTICALS

---

48 **6 of 9** **E/42.1** **205.6 / 4.79**

N. Ferguson Drugs Ltd.
6565 LUNDY'S LANE
NIAGARA FALLS ON L2G 1V1

GEN

Generator No: ON8468883
Status: Registered
Approval Years: As of Dec 2018
Contam. Facility:
MHSW Facility:
SIC Code:
SIC Description:

PO Box No:
Country: Canada
Choice of Contact:
Co Admin:
Phone No Admin:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Detail(s)

Waste Class: 261 A
Waste Class Desc: Pharmaceuticals

Waste Class: 312 P
Waste Class Desc: Pathological wastes

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48 ***7 of 9*** ***E/42.1*** ***205.6 / 4.79*** ***SHOPPERS DRUG MART #0799 (BATTLEFIELD PLAZA)***
6565 LUNDY'S LANE
NIAGARA FALLS ON L2G1V1 ***PES***

Detail Licence No:
Licence No: 12839
Status:
Approval Date:
Report Source: Legacy Licenses (Excluding TS)
Licence Type: Limited Vendor
Licence Type Code: 23
Licence Class: 01
Licence Control:
Latitude:
Longitude:
Lot:
Concession:
Region:
District:
County:
Trade Name:
PDF Link:
PDF Site Location:

Operator Box:
Operator Class:
Operator No:
Operator Type:
Oper Area Code: 905
Oper Phone No: 3543845
Operator Ext:
Operator Lot:
Oper Concession:
Operator Region:
Operator District:
Operator County:
Op Municipality:
Post Office Box:
MOE District:
SWP Area Name:

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48 ***8 of 9*** ***E/42.1*** ***205.6 / 4.79*** ***Mike Morcous Pharmacy Ltd.***
6565 LUNDY'S LANE
NIAGARA FALLS ON L2G 1V1 ***GEN***

Generator No: ON8468883
Status: Registered
Approval Years: As of Jul 2020
Contam. Facility:
MHSW Facility:
SIC Code:
SIC Description:

PO Box No:
Country: Canada
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 312 P
Waste Class Desc: Pathological wastes

Waste Class: 261 A
Waste Class Desc: Pharmaceuticals

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48 ***9 of 9*** ***E/42.1*** ***205.6 / 4.79*** ***Mike Morcous Pharmacy Ltd.***
6565 LUNDY'S LANE
NIAGARA FALLS ON L2G 1V1 ***GEN***

Generator No: ON8468883
Status: Registered
Approval Years: As of Aug 2021
Contam. Facility:
MHSW Facility:

PO Box No:
Country: Canada
Choice of Contact:
Co Admin:
Phone No Admin:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

SIC Code:
SIC Description:

Detail(s)

Waste Class: 261 A
Waste Class Desc: Pharmaceuticals

Waste Class: 312 P
Waste Class Desc: Pathological wastes

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49 **1 of 24** **E/23.4** **206.5 / 5.68** **COUNTRY STYLE DONUTS, CSD**
6555 LUNDY'S LANE
NIAGARA FALLS CITY ON L2G 1V1 **CA**

Certificate #: 8-2273-94-
Application Year: 94
Issue Date: 2/8/1995
Approval Type: Industrial air
Status: Approved in 1995
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description: RESTAURANT EXHAUST
Contaminants: Odour/Fumes, Nitrogen Oxides
Emission Control: Panel Filter

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49 **2 of 24** **E/23.4** **206.5 / 5.68** **SUNOCO**
SUNOCO STATION AT 6555 LUNDY'S LANE
SERVICE STATION
NIAGARA FALLS CITY ON L2G 1V1 **SPL**

Ref No: 56649
Site No:
Incident Dt: 9/4/1991
Year:
Incident Cause: OTHER CONTAINER LEAK
Incident Event:
Contaminant Code:
Contaminant Name:
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Environment Impact: NOT ANTICIPATED
Nature of Impact:
Receiving Medium: LAND
Receiving Env:
MOE Response:
Dt MOE Arvl on Scn:
MOE Reported Dt: 9/4/1991
Dt Document Closed:
Incident Reason: WELD/SEAM FAILURE
Site Name:
Site County/District:
Site Geo Ref Meth:
Incident Summary: SUNOCO - 4 LITRES OF PAINT & THINNERS TO PAVEMENT FROM DRUM.
Contaminant Qty:

Discharger Report:
Material Group:
Health/Env Conseq:
Client Type:
Sector Type:
Agency Involved:
Nearest Watercourse:
Site Address:
Site District Office:
Site Postal Code:
Site Region:
Site Municipality: 18101
Site Lot:
Site Conc:
Northing:
Easting: FIRE DEPT.
Site Geo Ref Accu:
Site Map Datum:
SAC Action Class:
Source Type:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
49	3 of 24	E/23.4	206.5 / 5.68	BIG CHIEF DIV OF SUNOCO ATTN MARY MISANGYI 6555 LUNDYS LA NIAGARA FALLS ON L2G1V1	PRT

Location ID: 9845
Type: retail
Expiry Date: 1990-06-30
Capacity (L): 0
Licence #: 0019089148

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
49	4 of 24	E/23.4	206.5 / 5.68	DRUMMOND SERVICE STATION 0/A LUNDY'S LANE SUNOCO 6555 LUNDYS LA NIAGARA FALLS ON L2G1V1	PRT

Location ID: 9845
Type: retail
Expiry Date: 1991-08-31
Capacity (L): 0
Licence #: 0056210001

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
49	5 of 24	E/23.4	206.5 / 5.68	6555 LUNDY'S LA. NIAGARA FALLS ON	PRT

Location ID: 9841
Type: retail
Expiry Date:
Capacity (L):
Licence #:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
49	6 of 24	E/23.4	206.5 / 5.68	SUNCOR ENERGY PRODUCTS INC 6555 LUNDY'S LANE NIAGARA FALLS ON L2G 1V1	DTNK

Delisted Expired Fuel Safety Facilities

Instance No: 10038033
Status: EXPIRED
Instance ID:
Instance Type: FS Facility
Instance Creation Dt:
Instance Install Dt:
Item Description:
Manufacturer:
Model:
Serial No:
ULC Standard:
Quantity:
Unit of Measure:
Overfill Prot Type:
Creation Date:
Next Periodic Str DT:
TSSA Base Sched Cycle 2:
TSSAMax Hazard Rank 1:
TSSA Risk Based Periodic Yn:
TSSA Volume of Directives:
TSSA Periodic Exempt:

Expired Date: 9/1/1990
Max Hazard Rank:
Facility Location:
Facility Type:
Fuel Type 2:
Fuel Type 3:
Panam Related:
Panam Venue Nm:
External Identifier:
Item:
Piping Steel:
Piping Galvanized:
Tank Single Wall St:
Piping Underground:
Tank Underground:
Source:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

TSSA Statutory Interval:
TSSA Recd Insp Interva:
TSSA Recd Tolerance:
TSSA Program Area:
TSSA Program Area 2:
Description:
Original Source: EXP
Record Date: Up to May 2013

49	*7 of 24*	*E/23.4*	*206.5 / 5.68*	***BIG CHIEF # 7731*** ***6555 LUNDY'S LANE*** ***NIAGARA FALLS ON L2G 1V1***	***DTNK***

Delisted Expired Fuel Safety Facilities

Instance No: 9523604
Status: EXPIRED
Instance ID:
Instance Type: FS Facility
Instance Creation Dt:
Instance Install Dt:
Item Description:
Manufacturer:
Model:
Serial No:
ULC Standard:
Quantity:
Unit of Measure:
Overfill Prot Type:
Creation Date:
Next Periodic Str DT:
TSSA Base Sched Cycle 2:
TSSAMax Hazard Rank 1:
TSSA Risk Based Periodic Yn:
TSSA Volume of Directives:
TSSA Periodic Exempt:
TSSA Statutory Interval:
TSSA Recd Insp Interva:
TSSA Recd Tolerance:
TSSA Program Area:
TSSA Program Area 2:
Description:
Original Source: EXP
Record Date: Up to May 2013

Expired Date: 7/1/1990
Max Hazard Rank:
Facility Location:
Facility Type:
Fuel Type 2:
Fuel Type 3:
Panam Related:
Panam Venue Nm:
External Identifier:
Item:
Piping Steel:
Piping Galvanized:
Tank Single Wall St:
Piping Underground:
Tank Underground:
Source:

49	*8 of 24*	*E/23.4*	*206.5 / 5.68*	***BIG CHIEF # 7731*** ***6555 LUNDY'S LANE NIAGARA FALLS L2G 1V1*** ***ON CA*** ***ON***	***DTNK***

49	*9 of 24*	*E/23.4*	*206.5 / 5.68*	***BIG CHIEF # 7731*** ***6555 LUNDY'S LANE NIAGARA FALLS L2G 1V1*** ***ON CA*** ***ON***	***DTNK***

49	*10 of 24*	*E/23.4*	*206.5 / 5.68*	***BIG CHIEF # 7731*** ***6555 LUNDY'S LANE NIAGARA FALLS L2G 1V1*** ***ON CA***	***DTNK***

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
				ON	
49	11 of 24	E/23.4	206.5 / 5.68	BIG CHIEF # 7731 6555 LUNDY'S LANE NIAGARA FALLS L2G 1V1 ON CA ON	DTNK
49	12 of 24	E/23.4	206.5 / 5.68	SUNCOR ENERGY PRODUCTS INC 6555 LUNDY'S LANE NIAGARA FALLS L2G 1V1 ON CA ON	DTNK
49	13 of 24	E/23.4	206.5 / 5.68	SUNCOR ENERGY PRODUCTS INC 6555 LUNDY'S LANE NIAGARA FALLS L2G 1V1 ON CA ON	DTNK
49	14 of 24	E/23.4	206.5 / 5.68	SUNCOR ENERGY PRODUCTS INC 6555 LUNDY'S LANE NIAGARA FALLS L2G 1V1 ON CA ON	DTNK
49	15 of 24	E/23.4	206.5 / 5.68	SUNCOR ENERGY PRODUCTS INC 6555 LUNDY'S LANE NIAGARA FALLS L2G 1V1 ON CA ON	DTNK
49	16 of 24	E/23.4	206.5 / 5.68	6555 Lundy's Lane Niagara Falls ON L2G 1V1	EHS

Order No:	20190214007	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Standard Report	**Client Prov/State:**	ON
Report Date:	20-FEB-19	**Search Radius (km):**	.25
Date Received:	14-FEB-19	**X:**	-79.104022
Previous Site Name:		**Y:**	43.089678
Lot/Building Size:			
Additional Info Ordered:	Fire Insur. Maps and/or Site Plans		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
49	17 of 24	E/23.4	206.5 / 5.68	BIG CHIEF # 7731 6555 LUNDY'S LANE NIAGARA FALLS L2G 1V1 ON CA ON	FST

Instance No:	11153007	**Manufacturer:**	
Status:		**Serial No:**	
Cont Name:		**Ulc Standard:**	
Instance Type:		**Quantity:**	
Item:	FS LIQUID FUEL TANK	**Unit of Measure:**	
Item Description:	FS Liquid Fuel Tank	**Fuel Type:**	Other
Tank Type:	Liquid Fuel Single Wall UST	**Fuel Type2:**	NULL
Install Date:	10/2/1989	**Fuel Type3:**	NULL
Install Year:	NULL	**Piping Steel:**	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Years in Service:		**Piping Galvanized:**	
Model:	NULL	**Tanks Single Wall St:**	
Description:		**Piping Underground:**	
Capacity:	2273	**Num Underground:**	
Tank Material:	Steel	**Panam Related:**	
Corrosion Protect:		**Panam Venue:**	
Overfill Protect:			
Facility Type:	FS Liquid Fuel Tank		
Parent Facility Type:			
Facility Location:			
Device Installed Location:	6555 LUNDY'S LANE NIAGARA FALLS L2G 1V1 ON CA		

Fuel Storage Tank Details

Owner Account Name: BIG CHIEF # 7731

Liquid Fuel Tank Details

Overfill Protection:	
Owner Account Name:	BIG CHIEF # 7731
Item:	FS LIQUID FUEL TANK

49	18 of 24	E/23.4	206.5 / 5.68	**SUNCOR ENERGY PRODUCTS INC** **6555 LUNDY'S LANE NIAGARA FALLS L2G 1V1** **ON CA** **ON**	FST

Instance No:	11204050		**Manufacturer:**		
Status:			**Serial No:**		
Cont Name:			**Ulc Standard:**		
Instance Type:			**Quantity:**		
Item:	FS LIQUID FUEL TANK		**Unit of Measure:**		
Item Description:	FS Liquid Fuel Tank		**Fuel Type:**	Gasoline	
Tank Type:	Liquid Fuel Single Wall UST		**Fuel Type2:**	NULL	
Install Date:	10/2/1989		**Fuel Type3:**	NULL	
Install Year:	NULL		**Piping Steel:**		
Years in Service:			**Piping Galvanized:**		
Model:	NULL		**Tanks Single Wall St:**		
Description:			**Piping Underground:**		
Capacity:	22730		**Num Underground:**		
Tank Material:	Steel		**Panam Related:**		
Corrosion Protect:			**Panam Venue:**		
Overfill Protect:					
Facility Type:	FS Liquid Fuel Tank				
Parent Facility Type:					
Facility Location:					
Device Installed Location:	6555 LUNDY'S LANE NIAGARA FALLS L2G 1V1 ON CA				

Fuel Storage Tank Details

Owner Account Name: SUNCOR ENERGY PRODUCTS INC

Liquid Fuel Tank Details

Overfill Protection:	
Owner Account Name:	SUNCOR ENERGY PRODUCTS INC
Item:	FS LIQUID FUEL TANK

49	19 of 24	E/23.4	206.5 / 5.68	**SUNCOR ENERGY PRODUCTS INC** **6555 LUNDY'S LANE NIAGARA FALLS L2G 1V1** **ON CA**	FST

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
				ON	

Instance No:	11204011	**Manufacturer:**	
Status:		**Serial No:**	
Cont Name:		**Ulc Standard:**	
Instance Type:		**Quantity:**	
Item:	FS LIQUID FUEL TANK	**Unit of Measure:**	
Item Description:	FS Liquid Fuel Tank	**Fuel Type:**	Gasoline
Tank Type:	Liquid Fuel Single Wall UST	**Fuel Type2:**	NULL
Install Date:	10/2/1989	**Fuel Type3:**	NULL
Install Year:	NULL	**Piping Steel:**	
Years in Service:		**Piping Galvanized:**	
Model:	NULL	**Tanks Single Wall St:**	
Description:		**Piping Underground:**	
Capacity:	27276	**Num Underground:**	
Tank Material:	Steel	**Panam Related:**	
Corrosion Protect:		**Panam Venue:**	
Overfill Protect:			
Facility Type:	FS Liquid Fuel Tank		
Parent Facility Type:			
Facility Location:			
Device Installed Location:	6555 LUNDY'S LANE NIAGARA FALLS L2G 1V1 ON CA		

Fuel Storage Tank Details

Owner Account Name:	SUNCOR ENERGY PRODUCTS INC

Liquid Fuel Tank Details

Overfill Protection:	
Owner Account Name:	SUNCOR ENERGY PRODUCTS INC
Item:	FS LIQUID FUEL TANK

49	20 of 24	E/23.4	206.5 / 5.68	**BIG CHIEF # 7731** **6555 LUNDY'S LANE NIAGARA FALLS L2G 1V1** **ON CA** **ON**	FST

Instance No:	10875021	**Manufacturer:**	
Status:		**Serial No:**	
Cont Name:		**Ulc Standard:**	
Instance Type:		**Quantity:**	
Item:	FS LIQUID FUEL TANK	**Unit of Measure:**	
Item Description:	FS Liquid Fuel Tank	**Fuel Type:**	Gasoline
Tank Type:	Liquid Fuel Single Wall UST	**Fuel Type2:**	NULL
Install Date:	10/2/1989	**Fuel Type3:**	NULL
Install Year:	NULL	**Piping Steel:**	
Years in Service:		**Piping Galvanized:**	
Model:	NULL	**Tanks Single Wall St:**	
Description:		**Piping Underground:**	
Capacity:	36368	**Num Underground:**	
Tank Material:	Steel	**Panam Related:**	
Corrosion Protect:		**Panam Venue:**	
Overfill Protect:			
Facility Type:	FS Liquid Fuel Tank		
Parent Facility Type:			
Facility Location:			
Device Installed Location:	6555 LUNDY'S LANE NIAGARA FALLS L2G 1V1 ON CA		

Fuel Storage Tank Details

Owner Account Name:	BIG CHIEF # 7731

Liquid Fuel Tank Details

Overfill Protection:
Owner Account Name: BIG CHIEF # 7731
Item: FS LIQUID FUEL TANK

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49 ***21 of 24*** ***E/23.4*** ***206.5 / 5.68*** ***BIG CHIEF # 7731*** ***FST***
6555 LUNDY'S LANE NIAGARA FALLS L2G 1V1
ON CA
ON

Instance No:	11152985	***Manufacturer:***	
Status:		***Serial No:***	
Cont Name:		***Ulc Standard:***	
Instance Type:		***Quantity:***	
Item:	FS LIQUID FUEL TANK	***Unit of Measure:***	
Item Description:	FS Liquid Fuel Tank	***Fuel Type:***	Gasoline
Tank Type:	Liquid Fuel Single Wall UST	***Fuel Type2:***	NULL
Install Date:	10/2/1989	***Fuel Type3:***	NULL
Install Year:	NULL	***Piping Steel:***	
Years in Service:		***Piping Galvanized:***	
Model:	NULL	***Tanks Single Wall St:***	
Description:		***Piping Underground:***	
Capacity:	22730	***Num Underground:***	
Tank Material:	Steel	***Panam Related:***	
Corrosion Protect:		***Panam Venue:***	
Overfill Protect:			
Facility Type:	FS Liquid Fuel Tank		
Parent Facility Type:			
Facility Location:			
Device Installed Location:	6555 LUNDY'S LANE NIAGARA FALLS L2G 1V1 ON CA		

Fuel Storage Tank Details

Owner Account Name: BIG CHIEF # 7731

Liquid Fuel Tank Details

Overfill Protection:
Owner Account Name: BIG CHIEF # 7731
Item: FS LIQUID FUEL TANK

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49 ***22 of 24*** ***E/23.4*** ***206.5 / 5.68*** ***BIG CHIEF # 7731*** ***FST***
6555 LUNDY'S LANE NIAGARA FALLS L2G 1V1
ON CA
ON

Instance No:	11152963	***Manufacturer:***	
Status:		***Serial No:***	
Cont Name:		***Ulc Standard:***	
Instance Type:		***Quantity:***	
Item:	FS LIQUID FUEL TANK	***Unit of Measure:***	
Item Description:	FS Liquid Fuel Tank	***Fuel Type:***	Gasoline
Tank Type:	Liquid Fuel Single Wall UST	***Fuel Type2:***	NULL
Install Date:	10/2/1989	***Fuel Type3:***	NULL
Install Year:	NULL	***Piping Steel:***	
Years in Service:		***Piping Galvanized:***	
Model:	NULL	***Tanks Single Wall St:***	
Description:		***Piping Underground:***	
Capacity:	27276	***Num Underground:***	
Tank Material:	Steel	***Panam Related:***	

Corrosion Protect: ***Panam Venue:***
Overfill Protect:
Facility Type: FS Liquid Fuel Tank
Parent Facility Type:
Facility Location:
Device Installed Location: 6555 LUNDY'S LANE NIAGARA FALLS L2G 1V1 ON CA

Fuel Storage Tank Details

Owner Account Name: BIG CHIEF # 7731

Liquid Fuel Tank Details

Overfill Protection:
Owner Account Name: BIG CHIEF # 7731
Item: FS LIQUID FUEL TANK

---

49 | ***23 of 24*** | ***E/23.4*** | ***206.5 / 5.68*** | ***SUNCOR ENERGY PRODUCTS INC***
6555 LUNDY'S LANE NIAGARA FALLS L2G 1V1
ON CA
ON | ***FST***

Instance No: 11204031 ***Manufacturer:***
Status: ***Serial No:***
Cont Name: ***Ulc Standard:***
Instance Type: ***Quantity:***
Item: FS LIQUID FUEL TANK ***Unit of Measure:***
Item Description: FS Liquid Fuel Tank ***Fuel Type:*** Gasoline
Tank Type: Liquid Fuel Single Wall UST ***Fuel Type2:*** NULL
Install Date: 10/2/1989 ***Fuel Type3:*** NULL
Install Year: NULL ***Piping Steel:***
Years in Service: ***Piping Galvanized:***
Model: NULL ***Tanks Single Wall St:***
Description: ***Piping Underground:***
Capacity: 22730 ***Num Underground:***
Tank Material: Steel ***Panam Related:***
Corrosion Protect: ***Panam Venue:***
Overfill Protect:
Facility Type: FS Liquid Fuel Tank
Parent Facility Type:
Facility Location:
Device Installed Location: 6555 LUNDY'S LANE NIAGARA FALLS L2G 1V1 ON CA

Fuel Storage Tank Details

Owner Account Name: SUNCOR ENERGY PRODUCTS INC

Liquid Fuel Tank Details

Overfill Protection:
Owner Account Name: SUNCOR ENERGY PRODUCTS INC
Item: FS LIQUID FUEL TANK

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49 | ***24 of 24*** | ***E/23.4*** | ***206.5 / 5.68*** | ***SUNCOR ENERGY PRODUCTS INC***
6555 LUNDY'S LANE NIAGARA FALLS L2G 1V1
ON CA
ON | ***FST***

Instance No: 11203995 ***Manufacturer:***
Status: ***Serial No:***
Cont Name: ***Ulc Standard:***

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Instance Type:		**Quantity:**	
Item:	FS LIQUID FUEL TANK	**Unit of Measure:**	
Item Description:	FS Liquid Fuel Tank	**Fuel Type:**	Gasoline
Tank Type:	Liquid Fuel Single Wall UST	**Fuel Type2:**	NULL
Install Date:	10/2/1989	**Fuel Type3:**	NULL
Install Year:	NULL	**Piping Steel:**	
Years in Service:		**Piping Galvanized:**	
Model:	NULL	**Tanks Single Wall St:**	
Description:		**Piping Underground:**	
Capacity:	36368	**Num Underground:**	
Tank Material:	Steel	**Panam Related:**	
Corrosion Protect:		**Panam Venue:**	
Overfill Protect:			
Facility Type:	FS Liquid Fuel Tank		
Parent Facility Type:			
Facility Location:			
Device Installed Location:	6555 LUNDY'S LANE NIAGARA FALLS L2G 1V1 ON CA		

Fuel Storage Tank Details

Owner Account Name: SUNCOR ENERGY PRODUCTS INC

Liquid Fuel Tank Details

Overfill Protection:	
Owner Account Name:	SUNCOR ENERGY PRODUCTS INC
Item:	FS LIQUID FUEL TANK

---

50 | ***1 of 3*** | ***E/28.3*** | ***206.9 / 6.02*** | ***Central Niagara Animal Hospital Professional Corp***
6544 Lundys Lane
NIAGARA FALLS ON L2G 1T6 | ***GEN***

Generator No:	ON9858989	**PO Box No:**	
Status:	Registered	**Country:**	Canada
Approval Years:	As of Dec 2018	**Choice of Contact:**	
Contam. Facility:		**Co Admin:**	
MHSW Facility:		**Phone No Admin:**	
SIC Code:			
SIC Description:			

Detail(s)

Waste Class:	261 H
Waste Class Desc:	Pharmaceuticals
Waste Class:	312 P
Waste Class Desc:	Pathological wastes

---

50 | ***2 of 3*** | ***E/28.3*** | ***206.9 / 6.02*** | ***Central Niagara Animal Hospital Professional Corp***
6544 Lundys Lane
NIAGARA FALLS ON L2G 1T6 | ***GEN***

Generator No:	ON9858989	**PO Box No:**	
Status:	Registered	**Country:**	Canada
Approval Years:	As of Jul 2020	**Choice of Contact:**	
Contam. Facility:		**Co Admin:**	
MHSW Facility:		**Phone No Admin:**	
SIC Code:			
SIC Description:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Detail(s)

Waste Class: 312 P
Waste Class Desc: Pathological wastes

Waste Class: 261 H
Waste Class Desc: Pharmaceuticals

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50 | ***3 of 3*** | ***E/28.3*** | ***206.9 / 6.02*** | ***Central Niagara Animal Hospital Professional Corp***
6544 Lundys Lane
NIAGARA FALLS ON L2G 1T6 | ***GEN***

Generator No: ON9858989
Status: Registered
Approval Years: As of Aug 2021
Contam. Facility:
MHSW Facility:
SIC Code:
SIC Description:

PO Box No:
Country: Canada
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 312 P
Waste Class Desc: Pathological wastes

Waste Class: 261 H
Waste Class Desc: Pharmaceuticals

---

51 | ***1 of 4*** | ***W/17.1*** | ***194.8 / -6.00*** | ***7565 Lundy's Lane***
Niagara Falls ON L2H 1G9 | ***CA***

Certificate #: 7025-4Y5JUZ
Application Year: 01
Issue Date: 6/28/01
Approval Type: Municipal & Private water
Status: Approved
Application Type: Amended CofA
Client Name: Corporation of the Regional Municipality of Niagara
Client Address: 2201 St. David's Road
Client City: Thorold
Client Postal Code:
Project Description: Amendment to Section 1.3
Contaminants:
Emission Control:

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51 | ***2 of 4*** | ***W/17.1*** | ***194.8 / -6.00*** | ***7565 Lundy's Lane***
Niagara Falls ON L2H 1G9 | ***CA***

Certificate #: 5221-4WAL2C
Application Year: 01
Issue Date: 6/28/01
Approval Type: Municipal & Private water
Status: Revoked and/or Replaced
Application Type: New Certificate of Approval
Client Name: Corporation of the Regional Municipality of Niagara
Client Address: 2201 St. David's Road, PO Box 1042
Client City: Thorold
Client Postal Code: L2V 4T7
Project Description: This application is for a Certificate of Approval to construct a chlorine injection and analyzer station on the Ontario Avenue watermain.

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Contaminants:					
Emission Control:					

51	3 of 4	W/17.1	194.8 / -6.00	**The Regional Municipality of Niagara** **7565 Lundy's Lane** **Niagara Falls ON**	ECA

Approval No:	5221-4WAL2C	**MOE District:**	
Approval Date:	2001-06-28	**City:**	
Status:	Revoked and/or Replaced	**Longitude:**	
Record Type:	ECA	**Latitude:**	
Link Source:	IDS	**Geometry X:**	
SWP Area Name:		**Geometry Y:**	
Approval Type:	ECA-Municipal and Private Water Works		
Project Type:	Municipal and Private Water Works		
Business Name:	The Regional Municipality of Niagara		
Address:	7565 Lundy's Lane		
Full Address:			
Full PDF Link:			
PDF Site Location:			

51	4 of 4	W/17.1	194.8 / -6.00	**The Regional Municipality of Niagara** **7565 Lundy's Lane** **Niagara Falls ON**	ECA

Approval No:	7025-4Y5JUZ	**MOE District:**	
Approval Date:	2001-06-28	**City:**	
Status:	Approved	**Longitude:**	
Record Type:	ECA	**Latitude:**	
Link Source:	IDS	**Geometry X:**	
SWP Area Name:		**Geometry Y:**	
Approval Type:	ECA-Municipal and Private Water Works		
Project Type:	Municipal and Private Water Works		
Business Name:	The Regional Municipality of Niagara		
Address:	7565 Lundy's Lane		
Full Address:			
Full PDF Link:			
PDF Site Location:			

52	1 of 3	E/13.9	206.8 / 5.92	**S AND S INDUSTRIES CANADA INC.** **6530 LUNDY'S LANE** **NIAGARA FALLS ON L2G 1T6**	SCT

Established:	1993
Plant Size (ft²):	5000
Employment:	3

--Details--

Description:	Quick Printing
SIC/NAICS Code:	323114
Description:	Digital Printing
SIC/NAICS Code:	323115
Description:	Other Printing
SIC/NAICS Code:	323119
Description:	Jewellery and Watch Wholesaler-Distributors
SIC/NAICS Code:	414410

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Description: All Other Wholesaler-Distributors
SIC/NAICS Code: 418990

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52 *2 of 3* *E/13.9* *206.8 / 5.92* **S & S INDUSTRIES CANADA** **SCT**
6530 LUNDY'S LANE
NIAGARA FALLS ON L2G 1T6

Established: 1993
Plant Size (ft²): 5000
Employment: 3

--Details--
Description: COMMERCIAL PRINTING, LITHOGRAPHIC
SIC/NAICS Code: 2752

Description: COMMERCIAL PRINTING, NOT ELSEWHERE CLASSIFIED
SIC/NAICS Code: 2759

Description: JEWELLERY, WATCHES, PRECIOUS STONES, AND PRECIOUS METALS
SIC/NAICS Code: 5094

Description: NONDURABLE GOODS, NOT ELSEWHERE CLASSIFIED
SIC/NAICS Code: 5199

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52 *3 of 3* *E/13.9* *206.8 / 5.92* **Novelty World** **SCT**
6530 Lundy's Lane
Niagara Falls ON L2G 1T6

Established: 01-JUN-82
Plant Size (ft²): 5000
Employment:

--Details--
Description: Other Printing
SIC/NAICS Code: 323119

Description: Jewellery and Watch Wholesaler-Distributors
SIC/NAICS Code: 414410

Description: Other Consumer Goods Rental
SIC/NAICS Code: 532290

Description: All Other Wholesaler-Distributors
SIC/NAICS Code: 418990

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53 *1 of 1* *E/18.0* *207.2 / 6.39* **6499 LUNDY'S LANE** **WWIS**
Niagara Falls ON

Well ID:	7046690	**Data Entry Status:**	
Construction Date:		**Data Src:**	
Primary Water Use:		**Date Received:**	7/17/2007
Sec. Water Use:		**Selected Flag:**	True
Final Well Status:	Abandoned-Other	**Abandonment Rec:**	Yes
Water Type:		**Contractor:**	7215
Casing Material:		**Form Version:**	4
Audit No:	Z63047	**Owner:**	
Tag:		**Street Name:**	6499 LUNDY'S LANE
Construction Method:		**County:**	NIAGARA
Elevation (m):		**Municipality:**	NIAGARA FALLS CITY

Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	
Well Depth:		**Concession:**	
Overburden/Bedrock:		**Concession Name:**	
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/704\7046690.pdf

Additional Detail(s) (Map)

Well Completed Date:	2007/06/26
Year Completed:	2007
Depth (m):	
Latitude:	43.0896127209477
Longitude:	-79.1033486588651
Path:	704\7046690.pdf

Bore Hole Information

Bore Hole ID:	23046690	**Elevation:**	206.823852
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	654370.00
Code OB Desc:		**North83:**	4772512.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	3
Date Completed:	26-Jun-2007 00:00:00	**UTMRC Desc:**	margin of error : 10 - 30 m
Remarks:		**Location Method:**	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Annular Space/Abandonment Sealing Record

Plug ID:	1000002918
Layer:	1
Plug From:	0
Plug To:	30
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	1000002922
Method Construction Code:	
Method Construction:	
Other Method Construction:	

Pipe Information

Pipe ID:	1000002914
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1000002920
Layer:	
Material:	
Open Hole or Material:	
Depth From:	
Depth To:	
Casing Diameter:	
Casing Diameter UOM:	
Casing Depth UOM:	

Construction Record - Screen

Screen ID:	1000002921
Layer:	
Slot:	
Screen Top Depth:	
Screen End Depth:	
Screen Material:	
Screen Depth UOM:	
Screen Diameter UOM:	
Screen Diameter:	

Results of Well Yield Testing

Pump Test ID:	1000002915
Pump Set At:	
Static Level:	
Final Level After Pumping:	
Recommended Pump Depth:	
Pumping Rate:	
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	ft
Rate UOM:	
Water State After Test Code:	0
Water State After Test:	
Pumping Test Method:	0
Pumping Duration HR:	
Pumping Duration MIN:	
Flowing:	

Hole Diameter

Hole ID:	1000002917
Diameter:	
Depth From:	
Depth To:	
Hole Depth UOM:	
Hole Diameter UOM:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
54	*1 of 1*	*E/34.5*	*207.0 / 6.12*	***Frames Unlimited*** ***6505 Lundy's Lane*** ***Niagara Falls ON L2G 1T9***	*SCT*

Established:	01-JUN-88
Plant Size (ft²):	1000
Employment:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

--Details--
Description: Print and Picture Frame Stores
SIC/NAICS Code: 442292

Description: All Other Miscellaneous Manufacturing
SIC/NAICS Code: 339990

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55 | ***1 of 31*** | ***E/27.1*** | ***207.9 / 7.02*** | ***MARK ALEXANDER WENMAN***
6499 LUNDYS LA
NIAGARA FALLS ON L2G 1T9 | ***PRT***

Location ID: 9840
Type: retail
Expiry Date: 1991-06-30
Capacity (L): 25000
Licence #: 0055166001

---

55 | ***2 of 31*** | ***E/27.1*** | ***207.9 / 7.02*** | ***MARK ALEXANDER WENMAN***
6499 LUNDYS LA
NIAGARA FALLS ON L2G1T9 | ***PRT***

Location ID: 9840
Type: retail
Expiry Date: 1991-06-30
Capacity (L): 2000
Licence #: 0034273001

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55 | ***3 of 31*** | ***E/27.1*** | ***207.9 / 7.02*** | ***HARMAC TRANSPORTATION***
6499 LUNDY'S LANE TANK TRUCK (CARGO)
NIAGARA FALLS CITY ON L2G 1T9 | ***SPL***

Ref No:	161032	***Discharger Report:***	
Site No:		***Material Group:***	
Incident Dt:	10/12/1998	***Health/Env Conseq:***	
Year:		***Client Type:***	
Incident Cause:	PIPE/HOSE LEAK	***Sector Type:***	
Incident Event:		***Agency Involved:***	
Contaminant Code:		***Nearest Watercourse:***	
Contaminant Name:		***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	
Contam Limit Freq 1:		***Site Postal Code:***	
Contaminant UN No 1:		***Site Region:***	
Environment Impact:	NOT ANTICIPATED	***Site Municipality:***	18101
Nature of Impact:		***Site Lot:***	
Receiving Medium:	LAND	***Site Conc:***	
Receiving Env:		***Northing:***	
MOE Response:		***Easting:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	
MOE Reported Dt:	10/12/1998	***Site Map Datum:***	
Dt Document Closed:		***SAC Action Class:***	
Incident Reason:	OVERSTRESS/OVERPRESSURE	***Source Type:***	
Site Name:			
Site County/District:			
Site Geo Ref Meth:			

Incident Summary: HARMAC-5 L GASOLINE TO PVMT ONLY.VAPOUR RECOVERYLINE LEAK. CLEANED.
Contaminant Qty:

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55 | ***4 of 31*** | ***E/27.1*** | ***207.9 / 7.02*** | ***SICARD SHELL***
6499 LUNDY'S LANE | ***RST***

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
				NIAGARA FALLS ON L2G1T9	

Headcode: 1186800
Headcode Desc: Service Stations-Gasoline, Oil & Natural Gas
Phone: 9053547311
List Name:
Description:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
55	5 of 31	E/27.1	207.9 / 7.02	GLEN HOLME SHELL 6499 LUNDY'S LANE NIAGARA FALLS ON L2G 1T9	RST

Headcode: 1186800
Headcode Desc: Service Stations-Gasoline, Oil & Natural Gas
Phone: 9053547311
List Name:
Description:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
55	6 of 31	E/27.1	207.9 / 7.02	HARMAC TRANSPORTATION 6499 LUNDY'S LANE TANK TRUCK (CARGO) NIAGARA FALLS CITY ON L2G 1T9	SPL

Ref No: 197141
Site No:
Incident Dt: 3/27/2001
Year:
Incident Cause: VALVE/FITTING LEAK OR FAILURE
Incident Event:
Contaminant Code:
Contaminant Name:
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Environment Impact: Possible
Nature of Impact: Soil contamination
Receiving Medium: Land
Receiving Env:
MOE Response:
Dt MOE Arvl on Scn:
MOE Reported Dt: 3/27/2001
Dt Document Closed:
Incident Reason: UNKNOWN
Site Name:
Site County/District:
Site Geo Ref Meth:
Incident Summary: HARMAC: SPILL OF 25 L DIESEL FUEL DURING DELIV -ERY, CLEANED UP.
Contaminant Qty:

Discharger Report:
Material Group:
Health/Env Conseq:
Client Type:
Sector Type:
Agency Involved:
Nearest Watercourse:
Site Address:
Site District Office:
Site Postal Code:
Site Region:
Site Municipality: 18101
Site Lot:
Site Conc:
Northing:
Easting:
Site Geo Ref Accu:
Site Map Datum:
SAC Action Class:
Source Type:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
55	7 of 31	E/27.1	207.9 / 7.02	6499 Lundy's Lane Niagara Falls ON L2G 1T9	EHS

Order No: 20061017024
Status: C
Report Type: Complete Report
Report Date: 10/26/2006
Date Received: 10/17/2006
Previous Site Name:
Lot/Building Size:
Additional Info Ordered: Fire Insur. Maps And /or Site Plans; Title Search; Aerials Photos

Nearest Intersection: Glenholm Ave.
Municipality: Niagara
Client Prov/State: ON
Search Radius (km): 0.25
X: -79.103075
Y: 43.089463

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
55	8 of 31	E/27.1	207.9 / 7.02	Shell Canada 6499 lundys lane Niagara Falls ON	GEN

Generator No: ON8090952
Status:
Approval Years: 2013
Contam. Facility:
MHSW Facility:
SIC Code: 447110
SIC Description:

PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 221
Waste Class Desc: LIGHT FUELS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
55	9 of 31	E/27.1	207.9 / 7.02	Shell Canada 6499 lundys lane Niagara Falls ON L2G1T9	GEN

Generator No: ON8090952
Status:
Approval Years: 07,08
Contam. Facility:
MHSW Facility:
SIC Code: 447110
SIC Description: Gasoline Stations with Convenience Stores

PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 221
Waste Class Desc: LIGHT FUELS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
55	10 of 31	E/27.1	207.9 / 7.02	6499 Lundy's Lane Niagara Falls ON L2G 1T9	EHS

Order No: 20110721034
Status: C
Report Type: Standard Report
Report Date: 8/2/2011
Date Received: 7/21/2011 2:06:09 PM
Previous Site Name:
Lot/Building Size:
Additional Info Ordered: Fire Insur. Maps and/or Site Plans

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): 0.25
X: -79.103188
Y: 43.089485

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
55	11 of 31	E/27.1	207.9 / 7.02	Shell Canada Limited ON	CPU

EBR Registry No: 011-5680
Ministry Ref No: 2435-8JBPEZ
Notice Type: Instrument Decision
Notice Stage:
Notice Date: April 02, 2012
Proposal Date: February 03, 2012
Year: 2012
Instrument Type: (EPA s. 168.6) - Certificate of Property Use
Off Instrument Name:

Decision Posted:
Exception Posted:
Section:
Act 1:
Act 2:
Site Location Map:

Posted By:
Company Name: Shell Canada Limited
Site Address:
Location Other:
Proponent Name:
Proponent Address: 90 Sheppard Avenue West , Suite 600, Postal Station Stn Main, Toronto Ontario, Canada M2N 6Y2
Comment Period:
URL:

Site Location Details:

6499 Lundy's Lane Niagara Falls PIN64314-0312(R):PTLT93PL32 STAMFORD;NIAGARA FALLS; and PIN64314-0047(LT):PTLOT4PL28 STAMFORD; PTLOT5PL28 STAMFORD; PTLOT6PL28 STAMFORD AS IN RO351173, NIAGARA FALLS REGIONAL MUNICIPALITY OF NIAGARA

55	*12 of 31*	*E/27.1*	*207.9 / 7.02*	***TU UKS INC O/A GAS STN*** ***6499 LUNDY'S LANE*** ***NIAGARA FALLS ON L2G 1T9***	***DTNK***

Delisted Expired Fuel Safety Facilities

Instance No: 9807263
Status: EXPIRED
Instance ID:
Instance Type: FS Facility
Instance Creation Dt:
Instance Install Dt:
Item Description:
Manufacturer:
Model:
Serial No:
ULC Standard:
Quantity:
Unit of Measure:
Overfill Prot Type:
Creation Date:
Next Periodic Str DT:
TSSA Base Sched Cycle 2:
TSSAMax Hazard Rank 1:
TSSA Risk Based Periodic Yn:
TSSA Volume of Directives:
TSSA Periodic Exempt:
TSSA Statutory Interval:
TSSA Recd Insp Interva:
TSSA Recd Tolerance:
TSSA Program Area:
TSSA Program Area 2:
Description:
Original Source: EXP
Record Date: Up to May 2013

Expired Date: 12/7/2009 15:15
Max Hazard Rank:
Facility Location:
Facility Type:
Fuel Type 2:
Fuel Type 3:
Panam Related:
Panam Venue Nm:
External Identifier:
Item:
Piping Steel:
Piping Galvanized:
Tank Single Wall St:
Piping Underground:
Tank Underground:
Source:

55	*13 of 31*	*E/27.1*	*207.9 / 7.02*	***TU UKS INC O/A GAS STN*** ***6499 LUNDY'S LANE*** ***NIAGARA FALLS ON***	***DTNK***

Delisted Expired Fuel Safety Facilities

Instance No: 11397124
Expired Date:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Status:	EXPIRED	**Max Hazard Rank:**	
Instance ID:	81869	**Facility Location:**	
Instance Type:	FS Piping	**Facility Type:**	
Instance Creation Dt:		**Fuel Type 2:**	
Instance Install Dt:		**Fuel Type 3:**	
Item Description:		**Panam Related:**	
Manufacturer:		**Panam Venue Nm:**	
Model:		**External Identifier:**	
Serial No:		**Item:**	
ULC Standard:		**Piping Steel:**	
Quantity:		**Piping Galvanized:**	
Unit of Measure:		**Tank Single Wall St:**	
Overfill Prot Type:		**Piping Underground:**	
Creation Date:		**Tank Underground:**	
Next Periodic Str DT:		**Source:**	
TSSA Base Sched Cycle 2:			
TSSAMax Hazard Rank 1:			
TSSA Risk Based Periodic Yn:			
TSSA Volume of Directives:			
TSSA Periodic Exempt:			
TSSA Statutory Interval:			
TSSA Recd Insp Interva:			
TSSA Recd Tolerance:			
TSSA Program Area:			
TSSA Program Area 2:			
Description:	FS Piping		
Original Source:	EXP		
Record Date:	Up to Mar 2012		

55	***14 of 31***	***E/27.1***	***207.9 / 7.02***	***TU UKS INC O/A GAS STN*** ***6499 LUNDY'S LANE*** ***NIAGARA FALLS ON***	***DTNK***

Delisted Expired Fuel Safety Facilities

Instance No:	11397138	**Expired Date:**	
Status:	EXPIRED	**Max Hazard Rank:**	
Instance ID:	82381	**Facility Location:**	
Instance Type:	FS Piping	**Facility Type:**	
Instance Creation Dt:		**Fuel Type 2:**	
Instance Install Dt:		**Fuel Type 3:**	
Item Description:		**Panam Related:**	
Manufacturer:		**Panam Venue Nm:**	
Model:		**External Identifier:**	
Serial No:		**Item:**	
ULC Standard:		**Piping Steel:**	
Quantity:		**Piping Galvanized:**	
Unit of Measure:		**Tank Single Wall St:**	
Overfill Prot Type:		**Piping Underground:**	
Creation Date:		**Tank Underground:**	
Next Periodic Str DT:		**Source:**	
TSSA Base Sched Cycle 2:			
TSSAMax Hazard Rank 1:			
TSSA Risk Based Periodic Yn:			
TSSA Volume of Directives:			
TSSA Periodic Exempt:			
TSSA Statutory Interval:			
TSSA Recd Insp Interva:			
TSSA Recd Tolerance:			
TSSA Program Area:			
TSSA Program Area 2:			
Description:	FS Piping		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Original Source:		EXP			
Record Date:		Up to Mar 2012			

55	15 of 31	E/27.1	207.9 / 7.02	TU UKS INC O/A GAS STN 6499 LUNDY'S LANE NIAGARA FALLS ON	DTNK

Delisted Expired Fuel Safety Facilities

Instance No:	11397155	**Expired Date:**	
Status:	EXPIRED	**Max Hazard Rank:**	
Instance ID:	82148	**Facility Location:**	
Instance Type:	FS Piping	**Facility Type:**	
Instance Creation Dt:		**Fuel Type 2:**	
Instance Install Dt:		**Fuel Type 3:**	
Item Description:		**Panam Related:**	
Manufacturer:		**Panam Venue Nm:**	
Model:		**External Identifier:**	
Serial No:		**Item:**	
ULC Standard:		**Piping Steel:**	
Quantity:		**Piping Galvanized:**	
Unit of Measure:		**Tank Single Wall St:**	
Overfill Prot Type:		**Piping Underground:**	
Creation Date:		**Tank Underground:**	
Next Periodic Str DT:		**Source:**	
TSSA Base Sched Cycle 2:			
TSSAMax Hazard Rank 1:			
TSSA Risk Based Periodic Yn:			
TSSA Volume of Directives:			
TSSA Periodic Exempt:			
TSSA Statutory Interval:			
TSSA Recd Insp Interva:			
TSSA Recd Tolerance:			
TSSA Program Area:			
TSSA Program Area 2:			
Description:	FS Piping		
Original Source:	EXP		
Record Date:	Up to Mar 2012		

55	16 of 31	E/27.1	207.9 / 7.02	TU UKS INC O/A GAS STN 6499 LUNDY'S LANE NIAGARA FALLS ON	DTNK

Delisted Expired Fuel Safety Facilities

Instance No:	10874955	**Expired Date:**	
Status:	EXPIRED	**Max Hazard Rank:**	
Instance ID:	48439	**Facility Location:**	
Instance Type:	FS Propane Tank	**Facility Type:**	
Instance Creation Dt:		**Fuel Type 2:**	
Instance Install Dt:		**Fuel Type 3:**	
Item Description:		**Panam Related:**	
Manufacturer:		**Panam Venue Nm:**	
Model:		**External Identifier:**	
Serial No:		**Item:**	
ULC Standard:		**Piping Steel:**	
Quantity:		**Piping Galvanized:**	
Unit of Measure:		**Tank Single Wall St:**	
Overfill Prot Type:		**Piping Underground:**	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Creation Date:
Next Periodic Str DT:
TSSA Base Sched Cycle 2:
TSSAMax Hazard Rank 1:
TSSA Risk Based Periodic Yn:
TSSA Volume of Directives:
TSSA Periodic Exempt:
TSSA Statutory Interval:
TSSA Recd Insp Interva:
TSSA Recd Tolerance:
TSSA Program Area:
TSSA Program Area 2:
Description: FS Propane Tank
Original Source: EXP
Record Date: Up to Mar 2012
Tank Underground:
Source:

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55 | **17 of 31** | **E/27.1** | **207.9 / 7.02** | **Shell Canada**
6499 lundys lane
Niagara Falls ON | **GEN**

Generator No: ON8090952
Status:
Approval Years: 2009
Contam. Facility:
MHSW Facility:
SIC Code: 447110
SIC Description: Gasoline Stations with Convenience Stores
PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 221
Waste Class Desc: LIGHT FUELS

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55 | **18 of 31** | **E/27.1** | **207.9 / 7.02** | **Shell Canada Limited**
6499 LUNDY'S LANE, NIAGARA FALLS,
ONTARIO L2G 1T9
Niagara Falls ON | **RSC**

RSC ID: 206351
RA No: 6288-7P4R7X RA1048-09
RSC Type: Phase 1 and 2 RSC with RA
Curr Property Use: Commercial
Ministry District: Niagara District Office
Filing Date: 2012/12/21
Date Ack:
Date Returned:
Restoration Type:
Soil Type:
Criteria:
CPU Issued Sect 1686:
Asmt Roll No: 2725 060 012111000000
Prop ID No (PIN): PIN64314-0047(LT), PIN64314-0315(R)
Property Municipal Address: 6499 LUNDY'S LANE, NIAGARA FALLS, ONTARIO L2G 1T9
Mailing Address:
Latitude & Latitude:
UTM Coordinates:
Consultant:
Legal Desc:
Measurement Method:
Applicable Standards:
RSC PDF: https://www.lrcsde.lrc.gov.on.ca/BFISWebPublic/pub/viewDocument.action?
Cert Date:
Cert Prop Use No:
Intended Prop Use: Commercial
Qual Person Name: Anatoly Missiuna
Stratified (Y/N):
Audit (Y/N):
Entire Leg Prop. (Y/N):
Accuracy Estimate:
Telephone:
Fax:
Email:

attachmentId=15393&fileName=BROWNFIELDS-E-FILE.pdf

Document(s) Detail

Document Heading: Supporting Documents
Document Name: Table of APECs_Rev 28Nov2012_SB_IM.pdf
Document Type: Area(s) of Potential Environmental Concern
Document Link: https://www.lrcsde.lrc.gov.on.ca/BFISWebPublic/pub/viewDocument.action?attachmentId=15387&fileName=Table+of+APECs_Rev+28Nov2012_SB_IM.pdf

Document Heading: Supporting Documents
Document Name: Transition notice-RA1048-09.pdf
Document Type: A copy of the notice for using the transition provision under section 21.1
Document Link: https://www.lrcsde.lrc.gov.on.ca/BFISWebPublic/pub/viewDocument.action?attachmentId=15399&fileName=Transition+notice-RA1048-09.pdf

Document Heading: Supporting Documents
Document Name: Transition Notice Acknowledgement.PDF
Document Type: A copy of the acknowledgement for using the transition provision under section 21.1
Document Link: https://www.lrcsde.lrc.gov.on.ca/BFISWebPublic/pub/viewDocument.action?attachmentId=15398&fileName=Transition+Notice+Acknowledgement.PDF

Document Heading: Supporting Documents
Document Name: C02263 Niagara Falls Deed BB85579_Combine.pdf
Document Type: Copy of any deed(s), transfer(s) or other document(s)
Document Link: https://www.lrcsde.lrc.gov.on.ca/BFISWebPublic/pub/viewDocument.action?attachmentId=15388&fileName=C02263+Niagara+Falls+Deed+BB85579_Combine.pdf

Document Heading: Supporting Documents
Document Name: MOE6499LundysLanewpd and Regional Response.pdf
Document Type: A copy of No Objection Statement from municipality
Document Link: https://www.lrcsde.lrc.gov.on.ca/BFISWebPublic/pub/viewDocument.action?attachmentId=15389&fileName=MOE6499LundysLanewpd+and+Regional+Response.pdf

Document Heading: Supporting Documents
Document Name: Table of current and past land use_Revised 28Nov2012_SB_im.pdf
Document Type: Table of Current and Past Property Use
Document Link: https://www.lrcsde.lrc.gov.on.ca/BFISWebPublic/pub/viewDocument.action?attachmentId=15391&fileName=Table+of+current+and+past+land+use_Revised+28Nov2012_SB_im.pdf

Document Heading: Supporting Documents
Document Name: Authorization and RSC Letter.pdf
Document Type: Lawyer's letter consisting of a legal description of the property
Document Link: https://www.lrcsde.lrc.gov.on.ca/BFISWebPublic/pub/viewDocument.action?attachmentId=15392&fileName=Authorization+and+RSC+Letter.pdf

Document Heading: Supporting Documents
Document Name: PSS RA1048-09e - Apr25-12.xls
Document Type: Property Specific Standards
Document Link: https://www.lrcsde.lrc.gov.on.ca/BFISWebPublic/pub/viewDocument.action?attachmentId=15390&fileName=PSS+RA1048-09e+-+Apr25-12.xls

Document Heading: Supporting Documents
Document Name: Cert of Compliance Oct 26 2012.pdf
Document Type: Certificate of Status
Document Link: https://www.lrcsde.lrc.gov.on.ca/BFISWebPublic/pub/viewDocument.action?attachmentId=15396&fileName=Cert+of+Compliance+Oct+26+2012.pdf

Document Heading: Supporting Documents
Document Name: Survey.pdf
Document Type: A Current plan of Survey
Document Link: https://www.lrcsde.lrc.gov.on.ca/BFISWebPublic/pub/viewDocument.action?attachmentId=15395&fileName=Survey.pdf

Document Heading: Supporting Documents

Document Name: 06-1113-351 CSM rev 2012Dec11.pdf
Document Type: Phase 2 Conceptual Site Model
Document Link: https://www.lrcsde.lrc.gov.on.ca/BFISWebPublic/pub/viewDocument.action?attachmentId=15386&fileName=06-1113-351+CSM+rev+2012Dec11.pdf

Document Heading: Orders and Notices
Document Name: CPU 24358JBPEZ 6499 Lundys Lane Niagara Falls.pdf
Document Type: order
Document Link: https://www.lrcsde.lrc.gov.on.ca/BFISWebPublic/pub/viewDocument.action?attachmentId=16045&fileName=CPU+24358JBPEZ++6499+Lundys+Lane+Niagara+Falls.pdf

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55 | **19 of 31** | **E/27.1** | **207.9 / 7.02** | **Shell Canada**
6499 lundys lane
Niagara Falls ON | **GEN**

Generator No: ON8090952
Status:
Approval Years: 2010
Contam. Facility:
MHSW Facility:
SIC Code: 447110
SIC Description: Gasoline Stations with Convenience Stores

PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 221
Waste Class Desc: LIGHT FUELS

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55 | **20 of 31** | **E/27.1** | **207.9 / 7.02** | **Shell Canada**
6499 lundys lane
Niagara Falls ON | **GEN**

Generator No: ON8090952
Status:
Approval Years: 2011
Contam. Facility:
MHSW Facility:
SIC Code: 447110
SIC Description: Gasoline Stations with Convenience Stores

PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 221
Waste Class Desc: LIGHT FUELS

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55 | **21 of 31** | **E/27.1** | **207.9 / 7.02** | **Shell Canada**
6499 lundys lane
Niagara Falls ON L2G1T9 | **GEN**

Generator No: ON8090952
Status:
Approval Years: 2012
Contam. Facility:
MHSW Facility:
SIC Code: 447110
SIC Description: Gasoline Stations with Convenience Stores

PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 221
Waste Class Desc: LIGHT FUELS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
55	22 of 31	E/27.1	207.9 / 7.02	TU UKS INC O/A GAS STN 6499 LUNDY'S LANE NIAGARA FALLS L2G 1T9 ON CA ON	DTNK
55	23 of 31	E/27.1	207.9 / 7.02	TU UKS INC O/A GAS STN 6499 LUNDY'S LANE NIAGARA FALLS L2G 1T9 ON CA ON	DTNK
55	24 of 31	E/27.1	207.9 / 7.02	TU UKS INC O/A GAS STN 6499 LUNDY'S LANE NIAGARA FALLS L2G 1T9 ON CA ON	DTNK
55	25 of 31	E/27.1	207.9 / 7.02	TU UKS INC O/A GAS STN 6499 LUNDY'S LANE NIAGARA FALLS L2G 1T9 ON CA ON	DTNK
55	26 of 31	E/27.1	207.9 / 7.02	TU UKS INC O/A GAS STN 6499 LUNDY'S LANE NIAGARA FALLS L2G 1T9 ON CA ON	DTNK
55	27 of 31	E/27.1	207.9 / 7.02	TU UKS INC O/A GAS STN 6499 LUNDY'S LANE NIAGARA FALLS L2G 1T9 ON CA ON	FST

Instance No:	11397076	**Manufacturer:**	
Status:		**Serial No:**	
Cont Name:		**Ulc Standard:**	
Instance Type:		**Quantity:**	
Item:	FS LIQUID FUEL TANK	**Unit of Measure:**	
Item Description:	FS Liquid Fuel Tank	**Fuel Type:**	Gasoline
Tank Type:	Liquid Fuel Single Wall UST	**Fuel Type2:**	NULL
Install Date:	10/2/1989	**Fuel Type3:**	NULL
Install Year:	9999	**Piping Steel:**	
Years in Service:		**Piping Galvanized:**	
Model:	NULL	**Tanks Single Wall St:**	
Description:		**Piping Underground:**	
Capacity:	22700	**Num Underground:**	
Tank Material:	Steel	**Panam Related:**	
Corrosion Protect:		**Panam Venue:**	
Overfill Protect:			
Facility Type:	FS Liquid Fuel Tank		
Parent Facility Type:			
Facility Location:			
Device Installed Location:	6499 LUNDY'S LANE NIAGARA FALLS L2G 1T9 ON CA		

Fuel Storage Tank Details

Owner Account Name: TU UKS INC O/A GAS STN

Liquid Fuel Tank Details

Overfill Protection:
Owner Account Name: TU UKS INC O/A GAS STN
Item: FS LIQUID FUEL TANK

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55 | ***28 of 31*** | ***E/27.1*** | ***207.9 / 7.02*** | ***TU UKS INC O/A GAS STN***
6499 LUNDY'S LANE NIAGARA FALLS L2G 1T9
ON CA
ON | ***FST***

Instance No:	11397093	***Manufacturer:***	
Status:		***Serial No:***	
Cont Name:		***Ulc Standard:***	
Instance Type:		***Quantity:***	
Item:	FS LIQUID FUEL TANK	***Unit of Measure:***	
Item Description:	FS Liquid Fuel Tank	***Fuel Type:***	Gasoline
Tank Type:	Liquid Fuel Single Wall UST	***Fuel Type2:***	NULL
Install Date:	10/2/1989	***Fuel Type3:***	NULL
Install Year:	9999	***Piping Steel:***	
Years in Service:		***Piping Galvanized:***	
Model:	NULL	***Tanks Single Wall St:***	
Description:		***Piping Underground:***	
Capacity:	22700	***Num Underground:***	
Tank Material:	Steel	***Panam Related:***	
Corrosion Protect:		***Panam Venue:***	
Overfill Protect:			
Facility Type:	FS Liquid Fuel Tank		
Parent Facility Type:			
Facility Location:			
Device Installed Location:	6499 LUNDY'S LANE NIAGARA FALLS L2G 1T9 ON CA		

Fuel Storage Tank Details

Owner Account Name: TU UKS INC O/A GAS STN

Liquid Fuel Tank Details

Overfill Protection:
Owner Account Name: TU UKS INC O/A GAS STN
Item: FS LIQUID FUEL TANK

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55 | ***29 of 31*** | ***E/27.1*** | ***207.9 / 7.02*** | ***TU UKS INC O/A GAS STN***
6499 LUNDY'S LANE NIAGARA FALLS L2G 1T9
ON CA
ON | ***FST***

Instance No:	10874964	***Manufacturer:***	
Status:		***Serial No:***	
Cont Name:		***Ulc Standard:***	
Instance Type:		***Quantity:***	
Item:	FS LIQUID FUEL TANK	***Unit of Measure:***	
Item Description:	FS Liquid Fuel Tank	***Fuel Type:***	Gasoline
Tank Type:	Liquid Fuel Single Wall UST	***Fuel Type2:***	NULL
Install Date:	10/2/1989	***Fuel Type3:***	NULL
Install Year:	9999	***Piping Steel:***	
Years in Service:		***Piping Galvanized:***	
Model:	NULL	***Tanks Single Wall St:***	
Description:		***Piping Underground:***	
Capacity:	22700	***Num Underground:***	
Tank Material:	Steel	***Panam Related:***	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Corrosion Protect: **Panam Venue:**
Overfill Protect:
Facility Type: FS Liquid Fuel Tank
Parent Facility Type:
Facility Location:
Device Installed Location: 6499 LUNDY'S LANE NIAGARA FALLS L2G 1T9 ON CA

Fuel Storage Tank Details

Owner Account Name: TU UKS INC O/A GAS STN

Liquid Fuel Tank Details

Overfill Protection:
Owner Account Name: TU UKS INC O/A GAS STN
Item: FS LIQUID FUEL TANK

55	30 of 31	E/27.1	207.9 / 7.02	**TU UKS INC O/A GAS STN** **6499 LUNDY'S LANE NIAGARA FALLS L2G 1T9** **ON CA** **ON**	FST

Instance No: 11397106
Status:
Cont Name:
Instance Type:
Item: FS LIQUID FUEL TANK
Item Description: FS Liquid Fuel Tank
Tank Type: Liquid Fuel Single Wall UST
Install Date: 10/2/1989
Install Year: 9999
Years in Service:
Model: NULL
Description:
Capacity: 22700
Tank Material: Steel
Corrosion Protect:
Overfill Protect:
Facility Type: FS Liquid Fuel Tank
Parent Facility Type:
Facility Location:
Device Installed Location: 6499 LUNDY'S LANE NIAGARA FALLS L2G 1T9 ON CA

Manufacturer:
Serial No:
Ulc Standard:
Quantity:
Unit of Measure:
Fuel Type: Diesel
Fuel Type2: NULL
Fuel Type3: NULL
Piping Steel:
Piping Galvanized:
Tanks Single Wall St:
Piping Underground:
Num Underground:
Panam Related:
Panam Venue:

Fuel Storage Tank Details

Owner Account Name: TU UKS INC O/A GAS STN

Liquid Fuel Tank Details

Overfill Protection:
Owner Account Name: TU UKS INC O/A GAS STN
Item: FS LIQUID FUEL TANK

55	31 of 31	E/27.1	207.9 / 7.02	**TU UKS INC O/A GAS STN** **6499 LUNDY'S LANE NIAGARA FALLS L2G 1T9** **ON CA** **ON**	FST

Instance No: 11397062
Status:
Cont Name:

Manufacturer:
Serial No:
Ulc Standard:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Instance Type:		**Quantity:**	
Item:	FS LIQUID FUEL TANK	**Unit of Measure:**	
Item Description:	FS Liquid Fuel Tank	**Fuel Type:**	Gasoline
Tank Type:	Liquid Fuel Single Wall UST	**Fuel Type2:**	NULL
Install Date:	10/2/1989	**Fuel Type3:**	NULL
Install Year:	9999	**Piping Steel:**	
Years in Service:		**Piping Galvanized:**	
Model:	NULL	**Tanks Single Wall St:**	
Description:		**Piping Underground:**	
Capacity:	22700	**Num Underground:**	
Tank Material:	Steel	**Panam Related:**	
Corrosion Protect:		**Panam Venue:**	
Overfill Protect:			
Facility Type:	FS Liquid Fuel Tank		
Parent Facility Type:			
Facility Location:			
Device Installed Location:	6499 LUNDY'S LANE NIAGARA FALLS L2G 1T9 ON CA		

Fuel Storage Tank Details

Owner Account Name: TU UKS INC O/A GAS STN

Liquid Fuel Tank Details

Overfill Protection:	
Owner Account Name:	TU UKS INC O/A GAS STN
Item:	FS LIQUID FUEL TANK

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56 | ***1 of 1*** | ***E/10.3*** | ***207.9 / 7.08*** | ***6499 LUNDY'S LANE NIAGARA FALLS ON*** | ***WWIS***

Well ID:	7040666	**Data Entry Status:**	
Construction Date:		**Data Src:**	
Primary Water Use:		**Date Received:**	2/5/2007
Sec. Water Use:		**Selected Flag:**	True
Final Well Status:	Observation Wells	**Abandonment Rec:**	
Water Type:		**Contractor:**	6809
Casing Material:		**Form Version:**	3
Audit No:	Z73517	**Owner:**	
Tag:	A052534	**Street Name:**	6499 LUNDY'S LANE
Construction Method:		**County:**	NIAGARA
Elevation (m):		**Municipality:**	NIAGARA FALLS CITY
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	
Well Depth:		**Concession:**	
Overburden/Bedrock:		**Concession Name:**	
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/704\7040666.pdf

Additional Detail(s) (Map)

Well Completed Date:	2006/12/04
Year Completed:	2006
Depth (m):	20.4216
Latitude:	43.0895511868205
Longitude:	-79.1028959732336
Path:	704\7040666.pdf

Bore Hole Information

Bore Hole ID:	11763174	***Elevation:***	207.733245
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:	o	***East83:***	654407.00
Code OB Desc:	Overburden	***North83:***	4772506.00
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	3
Date Completed:	04-Dec-2006 00:00:00	***UTMRC Desc:***	margin of error : 10 - 30 m
Remarks:		***Location Method:***	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	933091567
Layer:	2
Color:	7
General Color:	RED
Mat1:	28
Most Common Material:	SAND
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	51.0
Formation End Depth:	67.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	933091566
Layer:	1
Color:	8
General Color:	BLACK
Mat1:	28
Most Common Material:	SAND
Mat2:	11
Mat2 Desc:	GRAVEL
Mat3:	01
Mat3 Desc:	FILL
Formation Top Depth:	0.0
Formation End Depth:	51.0
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	933313762
Layer:	3
Plug From:	4
Plug To:	53
Plug Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	933313761
Layer:	2
Plug From:	1
Plug To:	4
Plug Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	933313760
Layer:	1
Plug From:	0
Plug To:	1
Plug Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	933313764
Layer:	5
Plug From:	55
Plug To:	67
Plug Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	933313763
Layer:	4
Plug From:	53
Plug To:	55
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	967040666
Method Construction Code:	6
Method Construction:	Boring
Other Method Construction:	

Pipe Information

Pipe ID:	11770864
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930895749
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	0
Depth To:	57
Casing Diameter:	2
Casing Diameter UOM:	inch

Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 933423076
Layer: 1
Slot: 10
Screen Top Depth: 57
Screen End Depth: 67
Screen Material: 5
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter: 2

Hole Diameter

Hole ID: 11849277
Diameter: 8.25
Depth From: 0.0
Depth To: 67.0
Hole Depth UOM: ft
Hole Diameter UOM: inch

---

57 ***1 of 9*** ***E/48.6*** ***208.3 / 7.48*** ***PHARMA PLUS DRUGS LTD.*** ***GEN***
6484 LUNDYS LANE
NIAGARA FALLS ON L2B 1T6

Generator No: ON1670604
Status:
Approval Years: 92,93,97,98,99,00,01
Contam. Facility:
MHSW Facility:
SIC Code: 6031
SIC Description: PHARMACIES

PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 261
Waste Class Desc: PHARMACEUTICALS

Waste Class: 312
Waste Class Desc: PATHOLOGICAL WASTES

---

57 ***2 of 9*** ***E/48.6*** ***208.3 / 7.48*** ***PHARMA PLUS DRUGS LTD. 31-763*** ***GEN***
6484 LUNDYS LANE, NIAGARA FALLS C/O 5935
AIRPORT ROAD STE. #500
MISSISSAUGA ON L4V 1W5

Generator No: ON1670604
Status:
Approval Years: 94,95,96
Contam. Facility:
MHSW Facility:
SIC Code: 6031
SIC Description: PHARMACIES

PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 261
Waste Class Desc: PHARMACEUTICALS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Waste Class: 312
Waste Class Desc: PATHOLOGICAL WASTES

---

57 **3 of 9** **E/48.6** **208.3 / 7.48**

Rexall Pharmacy Group Ltd.
6484 Lundy's Lane
Niagara Falls ON L2G 1T6

GEN

Generator No: ON3059819
Status:
Approval Years: 2016
Contam. Facility: No
MHSW Facility: No
SIC Code: 446110
SIC Description: 446110

PO Box No:
Country: Canada
Choice of Contact: CO_ADMIN
Co Admin: Erik Botines
Phone No Admin: 9055017800 Ext.

Detail(s)

Waste Class: 261
Waste Class Desc: PHARMACEUTICALS

Waste Class: 312
Waste Class Desc: PATHOLOGICAL WASTES

---

57 **4 of 9** **E/48.6** **208.3 / 7.48**

Pharma Plus Drugmarts Ltd
6484 Lundy's Lane
Niagara Falls ON L2G 1T6

GEN

Generator No: ON3059819
Status:
Approval Years: 2015
Contam. Facility: No
MHSW Facility: No
SIC Code: 446110
SIC Description: 446110

PO Box No:
Country: Canada
Choice of Contact: CO_ADMIN
Co Admin: Erik Botines
Phone No Admin: 9055017800 Ext.

Detail(s)

Waste Class: 312
Waste Class Desc: PATHOLOGICAL WASTES

---

57 **5 of 9** **E/48.6** **208.3 / 7.48**

Pharma Plus Drugmarts Ltd
6484 Lundy's Lane
Niagara Falls ON L2G 1T6

GEN

Generator No: ON3059819
Status:
Approval Years: 2014
Contam. Facility: No
MHSW Facility: No
SIC Code: 446110
SIC Description: 446110

PO Box No:
Country: Canada
Choice of Contact: CO_ADMIN
Co Admin: Aaron Schrama
Phone No Admin: 905-502-5965 Ext.

Detail(s)

Waste Class: 312
Waste Class Desc: PATHOLOGICAL WASTES

---

57 **6 of 9** **E/48.6** **208.3 / 7.48**

Rexall
6484 Lundy's Lane
Niagara Falls ON L2G 1T6

GEN

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Generator No: ON3639556
Status:
Approval Years: 2014
Contam. Facility: No
MHSW Facility: No
SIC Code: 446110
SIC Description: 446110

PO Box No:
Country: Canada
Choice of Contact: CO_OFFICIAL
Co Admin: Bill F Yeo
Phone No Admin: 647 288 3295 Ext.

Detail(s)

Waste Class: 263
Waste Class Desc: ORGANIC LABORATORY CHEMICALS

---

57 | ***7 of 9*** | ***E/48.6*** | ***208.3 / 7.48*** | ***Rexall Pharmacy Group Ltd.*** ***6484 Lundy's Lane*** ***Niagara Falls ON L2G 1T6*** | ***GEN***

Generator No: ON3059819
Status: Registered
Approval Years: As of Dec 2018
Contam. Facility:
MHSW Facility:
SIC Code:
SIC Description:

PO Box No:
Country: Canada
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 261 A
Waste Class Desc: Pharmaceuticals

Waste Class: 312 P
Waste Class Desc: Pathological wastes

---

57 | ***8 of 9*** | ***E/48.6*** | ***208.3 / 7.48*** | ***Rexall Pharmacy Group Ltd.*** ***6484 Lundy's Lane*** ***Niagara Falls ON L2G 1T6*** | ***GEN***

Generator No: ON3059819
Status: Registered
Approval Years: As of Jul 2020
Contam. Facility:
MHSW Facility:
SIC Code:
SIC Description:

PO Box No:
Country: Canada
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 261 A
Waste Class Desc: Pharmaceuticals

Waste Class: 312 P
Waste Class Desc: Pathological wastes

---

57 | ***9 of 9*** | ***E/48.6*** | ***208.3 / 7.48*** | ***Rexall Pharmacy Group Ltd.*** ***6484 Lundy's Lane*** ***Niagara Falls ON L2G 1T6*** | ***GEN***

Generator No: ON3059819
Status: Registered
Approval Years: As of Aug 2021

PO Box No:
Country: Canada
Choice of Contact:

Contam. Facility:
MHSW Facility:
SIC Code:
SIC Description:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 261 A
Waste Class Desc: Pharmaceuticals

Waste Class: 312 P
Waste Class Desc: Pathological wastes

---

58 | **1 of 1** | **E/23.0** | **208.7 / 7.85** | **6494 LUNDY'S LANE, NIAGARA FALLS ON** | **INC**

Incident No: 1474070
Incident ID:
Instance No:
Status Code:
Attribute Category: FS-Perform L1 Incident Insp
Context:
Date of Occurrence: 2014/09/06 00:00:00
Time of Occurrence: 04:00:00
Incident Created On:
Instance Creation Dt:
Instance Install Dt:
Occur Insp Start Date: 2014/09/07 00:00:00
Approx Quant Rel:
Tank Capacity:
Fuels Occur Type: Fire
Fuel Type Involved: Other Hydrocarbon Fuel
Enforcement Policy: NULL
Prc Escalation Req: NULL
Tank Material Type:
Tank Storage Type:
Tank Location Type:
Pump Flow Rate Cap:
Task No: 5169866
Notes:
Drainage System:
Sub Surface Contam.:
Aff Prop Use Water:
Contam. Migrated:
Contact Natural Env:
Incident Location: 6494 LUNDY'S LANE, NIAGARA FALLS - FIRE
Occurence Narrative: LAUNDRY MAT FIRE
Operation Type Involved: Commercial (e.g. restaurant, business unit, etc)
Item:
Item Description:
Device Installed Location:

Any Health Impact: No
Any Enviro Impact: No
Service Interrupted: Yes
Was Prop Damaged: Yes
Reside App. Type:
Commer App. Type:
Indus App. Type:
Institut App. Type:
Venting Type:
Vent Conn Mater:
Vent Chimney Mater:
Pipeline Type:
Pipeline Involved:
Pipe Material:
Depth Ground Cover:
Regulator Location:
Regulator Type:
Operation Pressure:
Liquid Prop Make:
Liquid Prop Model:
Liquid Prop Serial No:
Liquid Prop Notes:
Equipment Type:
Equipment Model:
Serial No:
Cylinder Capacity:
Cylinder Cap Units:
Cylinder Mat Type:
Near Body of Water:

---

59 | **1 of 14** | **E/37.3** | **208.9 / 8.09** | **MR. GROCER/597060 ONTARIO INC.**
6460 LUNDYS LANE
NIAGARA FALLS ON | **PES**

Detail Licence No:
Licence No:
Status:
Approval Date:
Report Source:
Licence Type: Vendor
Operator Box:
Operator Class:
Operator No:
Operator Type:
Oper Area Code:
Oper Phone No:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Licence Type Code:
Licence Class:
Licence Control:
Latitude:
Longitude:
Lot:
Concession:
Region:
District:
County:
Trade Name:
PDF Link:
PDF Site Location:

Operator Ext:
Operator Lot:
Oper Concession:
Operator Region:
Operator District:
Operator County:
Op Municipality:
Post Office Box:
MOE District:
SWP Area Name:

---

59 ***2 of 14*** ***E/37.3*** ***208.9 / 8.09*** ***727423 ONTARIO LIMITED*** ***PES***
6460 LUNDY'S LANE
NIAGARA FALLS ON L2G 1T6

Detail Licence No: 23-01-11187-0
Licence No: 11187
Status:
Approval Date:
Report Source:
Licence Type: Limited Vendor
Licence Type Code: 23
Licence Class: 01
Licence Control: 0
Latitude:
Longitude:
Lot:
Concession:
Region: 2
District:
County: 38
Trade Name:
PDF Link:
PDF Site Location:

Operator Box:
Operator Class:
Operator No:
Operator Type:
Oper Area Code:
Oper Phone No:
Operator Ext:
Operator Lot:
Oper Concession:
Operator Region: 2
Operator District:
Operator County: 38
Op Municipality:
Post Office Box:
MOE District:
SWP Area Name:

---

59 ***3 of 14*** ***E/37.3*** ***208.9 / 8.09*** ***1712267 ONTARIO LTD.*** ***PES***
6460 LUNDY'S LANE
NIAGARA FALLS ON L2G 1T6

Detail Licence No:
Licence No:
Status:
Approval Date:
Report Source:
Licence Type: Limited Vendor
Licence Type Code: 23
Licence Class:
Licence Control:
Latitude:
Longitude:
Lot:
Concession:
Region:
District:
County:
Trade Name:
PDF Link:
PDF Site Location:

Operator Box:
Operator Class:
Operator No:
Operator Type:
Oper Area Code:
Oper Phone No:
Operator Ext:
Operator Lot:
Oper Concession:
Operator Region:
Operator District:
Operator County:
Op Municipality:
Post Office Box:
MOE District:
SWP Area Name:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
59	4 of 14	E/37.3	208.9 / 8.09	1712267 ONTARIO LTD. 6460 LUNDY'S LANE NIAGARA FALLS ON L2G 1T6	PES

Detail Licence No:		Operator Box:	
Licence No:		Operator Class:	
Status:		Operator No:	
Approval Date:		Operator Type:	
Report Source:		Oper Area Code:	
Licence Type:	Vendor	Oper Phone No:	
Licence Type Code:		Operator Ext:	
Licence Class:		Operator Lot:	
Licence Control:		Oper Concession:	
Latitude:		Operator Region:	
Longitude:		Operator District:	
Lot:		Operator County:	
Concession:		Op Municipality:	
Region:		Post Office Box:	
District:		MOE District:	
County:		SWP Area Name:	
Trade Name:			
PDF Link:			
PDF Site Location:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
59	5 of 14	E/37.3	208.9 / 8.09	6460 Lundy's Lane Niagara Falls ON L2G 1T6	EHS

Order No:	20130111063	Nearest Intersection:	
Status:	C	Municipality:	
Report Type:	Custom Report	Client Prov/State:	ON
Report Date:	23-JAN-13	Search Radius (km):	.25
Date Received:	09-JAN-13	X:	-79.102054
Previous Site Name:		Y:	43.089249
Lot/Building Size:			
Additional Info Ordered:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
59	6 of 14	E/37.3	208.9 / 8.09	Loblaws Inc. 6460 Lundy's Lane Niagara Falls ON	GEN

Generator No:	ON7833746	PO Box No:	
Status:		Country:	
Approval Years:	2013	Choice of Contact:	
Contam. Facility:		Co Admin:	
MHSW Facility:		Phone No Admin:	
SIC Code:	531390		
SIC Description:	OTHER ACTIVITIES RELATED TO REAL ESTATE		

Detail(s)

Waste Class:	241
Waste Class Desc:	HALOGENATED SOLVENTS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
59	7 of 14	E/37.3	208.9 / 8.09	6460 LUNDY'S LANE NIAGARAFALLS ON	WWIS

Well ID:	7216601	Data Entry Status:	
Construction Date:		Data Src:	
Primary Water Use:		Date Received:	2/19/2014

Sec. Water Use:		**Selected Flag:**	True
Final Well Status:	Observation Wells	**Abandonment Rec:**	
Water Type:		**Contractor:**	6607
Casing Material:		**Form Version:**	7
Audit No:	Z147999	**Owner:**	
Tag:	A134113	**Street Name:**	6460 LUNDY'S LANE
Construction Method:		**County:**	NIAGARA
Elevation (m):		**Municipality:**	NIAGARA FALLS CITY
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	
Well Depth:		**Concession:**	
Overburden/Bedrock:		**Concession Name:**	
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	
Flow Rate:		**UTM Reliability:**	
Clear/Cloudy:			

PDF URL (Map):

Additional Detail(s) (Map)

Well Completed Date:	2013/03/21
Year Completed:	2013
Depth (m):	21.3
Latitude:	43.0889152802708
Longitude:	-79.1025593129855
Path:	

Bore Hole Information

Bore Hole ID:	1004713147	**Elevation:**	208.669021
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	654436.00
Code OB Desc:		**North83:**	4772436.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	21-Mar-2013 00:00:00	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1005084269
Layer:	4
Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	66
Mat2 Desc:	DENSE
Mat3:	
Mat3 Desc:	
Formation Top Depth:	21.299999237060547
Formation End Depth:	
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1005084267
Layer:	2
Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	28
Mat2 Desc:	SAND
Mat3:	66
Mat3 Desc:	DENSE
Formation Top Depth:	19.799999237060547
Formation End Depth:	20.299999237060547
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1005084268
Layer:	3
Color:	6
General Color:	BROWN
Mat1:	06
Most Common Material:	SILT
Mat2:	06
Mat2 Desc:	SILT
Mat3:	66
Mat3 Desc:	DENSE
Formation Top Depth:	20.299999237060547
Formation End Depth:	21.299999237060547
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1005084266
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	11
Mat2 Desc:	GRAVEL
Mat3:	77
Mat3 Desc:	LOOSE
Formation Top Depth:	0.0
Formation End Depth:	19.799999237060547
Formation End Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1005084276
Layer:	2
Plug From:	0.300000011920929
Plug To:	17.8999996185303
Plug Depth UOM:	m

Annular Space/Abandonment

Sealing Record

Plug ID:	1005084275
Layer:	1
Plug From:	0
Plug To:	0.300000011920929
Plug Depth UOM:	m

Method of Construction & Well Use

Method Construction ID:	1005084274
Method Construction Code:	
Method Construction:	
Other Method Construction:	

Pipe Information

Pipe ID:	1005084265
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1005084272
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	0
Depth To:	18.2999992370605
Casing Diameter:	3.09999990463257
Casing Diameter UOM:	cm
Casing Depth UOM:	m

Construction Record - Screen

Screen ID:	1005084273
Layer:	1
Slot:	20
Screen Top Depth:	18.2999992370605
Screen End Depth:	21.2999992370605
Screen Material:	5
Screen Depth UOM:	m
Screen Diameter UOM:	cm
Screen Diameter:	6.40000009536743

Water Details

Water ID:	1005084271
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	19.799999237060547
Water Found Depth UOM:	m

Hole Diameter

Hole ID:	1005084270
Diameter:	21.0
Depth From:	0.0

Depth To: 21.299999237060547
Hole Depth UOM: m
Hole Diameter UOM: cm

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59 *8 of 14* *E/37.3* *208.9 / 8.09* ***1948095 ONTARIO INC O/A JIM'S NO FRILLS*** ***6460 LUNDY'S LANE*** ***NIAGARA FALLS ON L2G1T6*** ***PES***

Detail Licence No:
Licence No: 17911
Status:
Approval Date:
Report Source: Legacy Licenses (Excluding TS)
Licence Type: Limited Vendor
Licence Type Code: 23
Licence Class: 01
Licence Control:
Latitude:
Longitude:
Lot:
Concession:
Region:
District:
County:
Trade Name:
PDF Link:
PDF Site Location:

Operator Box:
Operator Class:
Operator No:
Operator Type:
Oper Area Code: 905
Oper Phone No: 3574623
Operator Ext:
Operator Lot:
Oper Concession:
Operator Region:
Operator District:
Operator County:
Op Municipality:
Post Office Box:
MOE District:
SWP Area Name:

---

59 *9 of 14* *E/37.3* *208.9 / 8.09* ***1712267 ONTARIO LTD.*** ***6460 LUNDY'S LANE*** ***NIAGARA FALLS ON L2G1T6*** ***PES***

Detail Licence No: 23-01-11187-0
Licence No: 11187
Status:
Approval Date:
Report Source: Legacy Licenses (Excluding TS)
Licence Type: Limited Vendor
Licence Type Code: 23
Licence Class: 01
Licence Control: 0
Latitude:
Longitude:
Lot:
Concession:
Region: 2
District:
County: 38
Trade Name:
PDF Link:
PDF Site Location:

Operator Box:
Operator Class:
Operator No:
Operator Type:
Oper Area Code: 905
Oper Phone No: 3574623
Operator Ext:
Operator Lot:
Oper Concession:
Operator Region: 2
Operator District:
Operator County: 38
Op Municipality:
Post Office Box:
MOE District:
SWP Area Name:

---

59 *10 of 14* *E/37.3* *208.9 / 8.09* ***Loblaws Inc.*** ***6460 Lundy's Lane*** ***Niagara Falls ON L2G 1T6*** ***GEN***

Generator No: ON7833746
Status:
Approval Years: 2016
Contam. Facility: No
MHSW Facility: No

PO Box No:
Country: Canada
Choice of Contact: CO_OFFICIAL
Co Admin:
Phone No Admin:

SIC Code: 531390
SIC Description: OTHER ACTIVITIES RELATED TO REAL ESTATE

Detail(s)

Waste Class: 241
Waste Class Desc: HALOGENATED SOLVENTS

---

59 **11 of 14** **E/37.3** **208.9 / 8.09** **GEN**

Loblaws Inc.
6460 Lundy's Lane
Niagara Falls ON L2G 1T6

Generator No: ON7833746
Status:
Approval Years: 2015
Contam. Facility: No
MHSW Facility: No
SIC Code: 531390
SIC Description: OTHER ACTIVITIES RELATED TO REAL ESTATE

PO Box No:
Country: Canada
Choice of Contact: CO_OFFICIAL
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 241
Waste Class Desc: HALOGENATED SOLVENTS

---

59 **12 of 14** **E/37.3** **208.9 / 8.09** **GEN**

Loblaws Inc.
6460 Lundy's Lane
Niagara Falls ON L2G 1T6

Generator No: ON7833746
Status:
Approval Years: 2014
Contam. Facility: No
MHSW Facility: No
SIC Code: 531390
SIC Description: OTHER ACTIVITIES RELATED TO REAL ESTATE

PO Box No:
Country: Canada
Choice of Contact: CO_OFFICIAL
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 241
Waste Class Desc: HALOGENATED SOLVENTS

---

59 **13 of 14** **E/37.3** **208.9 / 8.09** **PES**

1712267 ONTARIO LTD.
6460 LUNDY'S LANE
NIAGARA FALLS ON L2G1T6

Detail Licence No:
Licence No: 11187
Status:
Approval Date:
Report Source: Legacy Licenses (Excluding TS)
Licence Type: Retail Vendor Class 03
Licence Type Code: 21
Licence Class: 03
Licence Control:
Latitude:
Longitude:
Lot:
Concession:
Region:
District:

Operator Box:
Operator Class:
Operator No:
Operator Type:
Oper Area Code: 905
Oper Phone No: 3574623
Operator Ext:
Operator Lot:
Oper Concession:
Operator Region:
Operator District:
Operator County:
Op Municipality:
Post Office Box:
MOE District:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

County:
Trade Name:
PDF Link:
PDF Site Location:
SWP Area Name:

---

59 **14 of 14** **E/37.3** **208.9 / 8.09**

MR. GROCER/597060 ONTARIO INC.
6460 LUNDYS LANE
NIAGARA FALLS ON L2G1T6

PES

Detail Licence No:
Licence No: 09759
Status:
Approval Date:
Report Source: Legacy Licenses (Excluding TS)
Licence Type: Retail Vendor Class 03
Licence Type Code: 21
Licence Class: 03
Licence Control:
Latitude:
Longitude:
Lot:
Concession:
Region:
District:
County:
Trade Name:
PDF Link:
PDF Site Location:

Operator Box:
Operator Class:
Operator No:
Operator Type:
Oper Area Code: 416
Oper Phone No: 3564520
Operator Ext:
Operator Lot:
Oper Concession:
Operator Region:
Operator District:
Operator County:
Op Municipality:
Post Office Box:
MOE District:
SWP Area Name:

---

60 **1 of 1** **E/12.3** **207.8 / 6.93**

6465 Lundy's Lane
Niagara Falls ON L2G 1T9

EHS

Order No: 21042600348
Status: C
Report Type: Standard Report
Report Date: 29-APR-21
Date Received: 26-APR-21
Previous Site Name:
Lot/Building Size:
Additional Info Ordered: Fire Insur. Maps and/or Site Plans

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -79.1025212
Y: 43.0895764

---

61 **1 of 3** **E/11.6** **207.8 / 6.93**

CREST HARDWARE
6465 LUNDY'S LANE
NIAGARA FALLS ON L2G 1T9

PES

Detail Licence No:
Licence No:
Status:
Approval Date:
Report Source:
Licence Type: Vendor
Licence Type Code:
Licence Class:
Licence Control:
Latitude:
Longitude:
Lot:
Concession:
Region:
District:

Operator Box:
Operator Class:
Operator No:
Operator Type:
Oper Area Code:
Oper Phone No:
Operator Ext:
Operator Lot:
Oper Concession:
Operator Region:
Operator District:
Operator County:
Op Municipality:
Post Office Box:
MOE District:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

County:
Trade Name:
PDF Link:
PDF Site Location:
SWP Area Name:

---

61 **2 of 3** **E/11.6** **207.8 / 6.93**

CREST HARDWARE
6465 LUNDY'S LANE
NIAGARA FALLS ON L2G1T9

PES

Detail Licence No:	23-01-07941-0	**Operator Box:**	
Licence No:	07941	**Operator Class:**	
Status:		**Operator No:**	
Approval Date:		**Operator Type:**	
Report Source:	Legacy Licenses (Excluding TS)	**Oper Area Code:**	416
Licence Type:	Limited Vendor	**Oper Phone No:**	3572940
Licence Type Code:	23	**Operator Ext:**	
Licence Class:	01	**Operator Lot:**	
Licence Control:	0	**Oper Concession:**	
Latitude:		**Operator Region:**	2
Longitude:		**Operator District:**	1
Lot:		**Operator County:**	38
Concession:		**Op Municipality:**	
Region:	2	**Post Office Box:**	
District:	1	**MOE District:**	
County:	38	**SWP Area Name:**	
Trade Name:			
PDF Link:			
PDF Site Location:			

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61 **3 of 3** **E/11.6** **207.8 / 6.93**

CREST HARDWARE
6465 LUNDY'S LANE
NIAGARA FALLS ON L2G1T9

PES

Detail Licence No:		**Operator Box:**	
Licence No:	07941	**Operator Class:**	
Status:		**Operator No:**	
Approval Date:		**Operator Type:**	
Report Source:	Legacy Licenses (Excluding TS)	**Oper Area Code:**	416
Licence Type:	Retail Vendor Class 03	**Oper Phone No:**	3572940
Licence Type Code:	21	**Operator Ext:**	
Licence Class:	03	**Operator Lot:**	
Licence Control:		**Oper Concession:**	
Latitude:		**Operator Region:**	
Longitude:		**Operator District:**	
Lot:		**Operator County:**	
Concession:		**Op Municipality:**	
Region:		**Post Office Box:**	
District:		**MOE District:**	
County:		**SWP Area Name:**	
Trade Name:			
PDF Link:			
PDF Site Location:			

Unplottable Summary

Total: 39 Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
CA	M. CARLUCCIO HUNTER HEIGHTS SUBD.	E. OF DORCHESTER RD.	NIAGARA FALLS CITY ON	
CA	R.M. OF NIAGARA	MONTROSE RD.	NIAGARA FALLS CITY ON	
CA	NIAGARA FALLS CITY	MONTROSE RD.	NIAGARA FALLS CITY ON	
CA	NIAGARA FALLS CITY O'NEIL ST.	DORCHESTER RD.	NIAGARA FALLS CITY ON	
CA	M. CARLUCCIO HUNTER HEIGHTS SUBD.	DORCHESTER RD.	NIAGARA FALLS CITY ON	
CA	NIAGARA FALLS CITY	MONTROSE RD.	NIAGARA FALLS CITY ON	
CA	NIAGARA FALLS CITY	MONTROSE RD.	NIAGARA FALLS CITY ON	
CA	NIAGARA FALLS CITY	MONTROSE RD.	NIAGARA FALLS CITY ON	
CA	NIAGARA FALLS CITY	SPENCE ST.	NIAGARA FALLS CITY ON	
CA		Montrose Road	Niagara Falls ON	
CA		Montrose Road	Niagara Falls ON	
CA	The Corporation of the City of Niagara Falls	Montrose Road	Niagara Falls ON	
CA	The Corporation of the City of Niagara Falls	From Murray Street to Ker St	Niagara Falls ON	
CA	The Corporation of the City of Niagara Falls	Dorchester Road	Niagara Falls ON	
CA	The Regional Municipality of Niagara	Montrose Rd	Niagara Falls ON	
CA	NIAGARA FALLS CITY	MONTROSE RD	NIAGARA FALLS CITY ON	

CA	R.M. OF NIAGARA	DORCHESTER RD. SEWAGE P.S.	NIAGARA FALLS CITY ON	
CONV	PHARMA PLUS DRUGMARTS LTD.		ON	
CONV	SHELL CANADA PRODUCTS LTD.		ON	
CONV	JLA FACTORY OUTLET HOLDINGS LI		ON	
CONV	SHELL CANADA PRODUCTS LTD.		ON	
CONV	SHELL CANADA PRODUCTS LTD.		ON	
CONV	Lafarge Canada Inc.	Montrose Road	Niagara Falls ON	
ECA	The Corporation of the City of Niagara Falls	Dorchester Rd	Niagara Falls ON	L2E 6X5
ECA	The Corporation of the City of Niagara Falls	from Montrose Road to 100 metres west	Niagara Falls ON	L2E 6X5
ECA	The Regional Municipality of Niagara	Montrose Rd	Niagara Falls ON	
ECA	The Corporation of the City of Niagara Falls	Dorchester Rd	Niagara Falls ON	L2E 6X5
ECA	The Corporation of the City of Niagara Falls	Dorchester Rd	Niagara Falls ON	L2E 6X5
ECA	The Corporation of the City of Niagara Falls	Montrose Rd	Niagara Falls ON	
ECA	The Regional Municipality of Niagara	Montrose Rd	Niagara Falls ON	
ECA	The Corporation of the City of Niagara Falls	Montrose Rd	Niagara Falls ON	L2E 6X5
EHS		Montrose Road	Niagara Falls ON	
SCT	MORNINGSTAR LUMBER LIMITED	MONTROSE RD	NIAGARA FALLS ON	L2H
SPL	PUC	DORCHESTER RD PUMPING STATION TO HYDRO CANAL PUMPING STATION INVALID SITE ENTRY - PLEASE USE ANOTHER	NIAGARA FALLS CITY ON	
SPL	SUNOCO	SERVICE STATION	NIAGARA FALLS CITY ON	
SPL	CHEMACRYL	DORCHESTER ST. NIAGARA FALLS PLANT 8100 DORCHESTER STREET	NIAGARA FALLS CITY ON	
SPL	TRANSPORT TRUCK	AT MONTROSE ST. 1 MILE SOUTH OF MCLEOD MOTOR VEHICLE (OPERATING FLUID)	NIAGARA FALLS CITY ON	

SPL	TRANSPORT TRUCK	DORCHESTER RD. MOTOR VEHICLE (OPERATING FLUID)	NIAGARA FALLS CITY ON
SPL	NIAGARA, REGIONAL MUNICIPALITY	NIAGARA RIVER FROM DORCHESTER RD. PUMPING STATION SANITARY SEWER SYSTEM/PUMPING STATION	NIAGARA FALLS CITY ON

Unplottable Report

Site: *M. CARLUCCIO HUNTER HEIGHTS SUBD.*
E. OF DORCHESTER RD. NIAGARA FALLS CITY ON

Database: *CA*

Certificate #:	3-1459-89-
Application Year:	89
Issue Date:	7/28/1989
Approval Type:	Municipal sewage
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: *R.M. OF NIAGARA*
MONTROSE RD. NIAGARA FALLS CITY ON

Database: *CA*

Certificate #:	7-0664-86-
Application Year:	86
Issue Date:	6/27/1986
Approval Type:	Municipal water
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: *NIAGARA FALLS CITY*
MONTROSE RD. NIAGARA FALLS CITY ON

Database: *CA*

Certificate #:	7-0691-86-
Application Year:	86
Issue Date:	7/4/1986
Approval Type:	Municipal water
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: *NIAGARA FALLS CITY O'NEIL ST.*
DORCHESTER RD. NIAGARA FALLS CITY ON

Database: *CA*

Certificate #:	7-0743-88-

Application Year: 88
Issue Date: 6/14/1988
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***M. CARLUCCIO HUNTER HEIGHTS SUBD.***
DORCHESTER RD. NIAGARA FALLS CITY ON

Database: ***CA***

Certificate #: 7-1203-89-
Application Year: 89
Issue Date: 7/28/1989
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***NIAGARA FALLS CITY***
MONTROSE RD. NIAGARA FALLS CITY ON

Database: ***CA***

Certificate #: 7-0809-86-
Application Year: 86
Issue Date: 7/22/1986
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***NIAGARA FALLS CITY***
MONTROSE RD. NIAGARA FALLS CITY ON

Database: ***CA***

Certificate #: 7-1388-86-
Application Year: 86
Issue Date: 11/24/1986
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***NIAGARA FALLS CITY***
MONTROSE RD. NIAGARA FALLS CITY ON

Database: ***CA***

Certificate #: 7-0950-88-
Application Year: 88
Issue Date: 7/7/1988
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***NIAGARA FALLS CITY***
SPENCE ST. NIAGARA FALLS CITY ON

Database: ***CA***

Certificate #: 7-1077-85-006
Application Year: 85
Issue Date: 12/13/85
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site:
Montrose Road Niagara Falls ON

Database: ***CA***

Certificate #: 3874-4KUSJZ
Application Year: 00
Issue Date: 6/5/00
Approval Type: Municipal & Private water
Status: Approved
Application Type: New Certificate of Approval
Client Name: The Corporation of the City of Niagara Falls
Client Address: 4310 Queen Street
Client City: Niagara Falls
Client Postal Code:
Project Description: Installation of 610m of 300m diameter PVC watermain to replace 150mm and 200mm D watermain (including appurtenances). Installation of the watermain along Montrose Road (from Industrial Street to Chorozy Street).
Contaminants:
Emission Control:

Site:
Montrose Road Niagara Falls ON

Database: ***CA***

Certificate #: 7074-4KPQZX
Application Year: 00
Issue Date: 6/5/00
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name: Corporation of the Regional Municipality of Niagara

Client Address:	2201 St. David's Road, PO Box 1042
Client City:	Thorold
Client Postal Code:	L2V 4T7
Project Description:	Storm Sewers
Contaminants:	
Emission Control:	

Site: ***The Corporation of the City of Niagara Falls***
Montrose Road Niagara Falls ON

Database: ***CA***

Certificate #:	3382-6V5RB3
Application Year:	2006
Issue Date:	11/9/2006
Approval Type:	Municipal and Private Sewage Works
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***The Corporation of the City of Niagara Falls***
From Murray Street to Ker St Niagara Falls ON

Database: ***CA***

Certificate #:	6000-7XYN8G
Application Year:	2009
Issue Date:	11/24/2009
Approval Type:	Municipal and Private Sewage Works
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***The Corporation of the City of Niagara Falls***
Dorchester Road Niagara Falls ON

Database: ***CA***

Certificate #:	6016-6R7PDN
Application Year:	2006
Issue Date:	7/20/2006
Approval Type:	Municipal and Private Sewage Works
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***The Regional Municipality of Niagara***
Montrose Rd Niagara Falls ON

Database: ***CA***

Certificate #:	6146-7RLK55

Application Year: 2009
Issue Date: 5/1/2009
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***NIAGARA FALLS CITY***
MONTROSE RD NIAGARA FALLS CITY ON

Database: ***CA***

Certificate #: 3-1394-86-
Application Year: 86
Issue Date: 9/11/1986
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***R.M. OF NIAGARA***
DORCHESTER RD. SEWAGE P.S. NIAGARA FALLS CITY ON

Database: ***CA***

Certificate #: 8-2289-95-
Application Year: 95
Issue Date: 9/18/1995
Approval Type: Industrial air
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description: EMERGENCY GENERATOR FOR SEWAGE PUMP STA.
Contaminants: Nitrogen Oxides
Emission Control: No Controls

Site: ***PHARMA PLUS DRUGMARTS LTD.***
ON

Database: ***CONV***

File No:
Crown Brief No: 98-0000-9002
Court Location:
Publication City:
Publication Title:
Act:
Act(s):
First Matter:
Second Matter:
Investigation 1:
Investigation 2:
Penalty Imposed:
Description: THIS IS THE WEST CENTRAL BRIEF FOR ALL P.O.A. TICKETS.
Background:

Location:
Region: WEST CENTRAL REGION
Ministry District:

URL:

Additional Details

Publication Date:
Count: 1
Act: EPA
Regulation: 347
Section: 18(7)
Act/Regulation/Section: EPA-347-18(7)
Date of Offence:
Date of Conviction:
Date Charged: 11/24/00
Charge Disposition: SUSPENDED SENTENCE
Fine: $205.00
Synopsis:

Site: ***SHELL CANADA PRODUCTS LTD.***
ON

Database: ***CONV***

File No:
Crown Brief No: 98-0084-0067
Court Location:
Publication City:
Publication Title:
Act:
Act(s):
First Matter:
Second Matter:
Investigation 1:
Investigation 2:
Penalty Imposed:
Description: DISCHARGING NOXIOUS FUMES & GAS INTO THE ENVIRONMENT, USING A SITE FOR THE DISPOSAL OF HAZARDOUS WASTE & HAVE WASTE LEAVE WITHOUT A MANIFEST.
Background:
URL:

Location:
Region: SOUTH WEST REGION
Ministry District: SARNIA & HURON COUNTY

Additional Details

Publication Date:
Count: 1
Act: EPA
Regulation:
Section: 14 (1)
Act/Regulation/Section: EPA- -14 (1)
Date of Offence:
Date of Conviction:
Date Charged: 3/22/00
Charge Disposition: SUSPENDED SENTENCE
Fine: $150,000.00
Synopsis:

Site: ***JLA FACTORY OUTLET HOLDINGS LI***
ON

Database: ***CONV***

File No:
Crown Brief No: 98-0029-0016
Court Location:
Publication City:
Publication Title:
Act:
Act(s):
First Matter:
Second Matter:
Investigation 1:
Investigation 2:

Location:
Region: WEST CENTRAL REGION
Ministry District: NIAGARA

Penalty Imposed:
Description: INSTALL A SEWAGE WORKS WITHOUT OBTAINING A CERTIFICATE OF APPROVAL.
Background:
URL:

Additional Details

Publication Date:
Count: 1
Act: OWRA
Regulation:
Section: 53(1)
Act/Regulation/Section: OWRA- -53(1)
Date of Offence:
Date of Conviction:
Date Charged: 2/18/99
Charge Disposition: SUSPENDED SENTENCE
Fine: $7,500.00
Synopsis:

Site: ***SHELL CANADA PRODUCTS LTD.***
ON

Database: ***CONV***

File No:
Location:
Crown Brief No: 00-0026-0326
Region: SOUTH WEST REGION
Court Location:
Ministry District: SARNIA & HURON COUNTY
Publication City:
Publication Title:
Act:
Act(s):
First Matter:
Second Matter:
Investigation 1:
Investigation 2:
Penalty Imposed:
Description: DISCHARGING UNBURNED FLARE GAS CAUSING AN ADVERSE EFFECTS TO RESIDENTS AND WORKERS DOWNWIND.
Background:
URL:

Additional Details

Publication Date:
Count: 1
Act: EPA
Regulation:
Section: 14(1)
Act/Regulation/Section: EPA- -14(1)
Date of Offence:
Date of Conviction:
Date Charged: 5/11/01
Charge Disposition: SUSPENDED SENTENCE
Fine: $240,000.00
Synopsis:

Site: ***SHELL CANADA PRODUCTS LTD.***
ON

Database: ***CONV***

File No:
Location:
Crown Brief No: 00-0021-0279
Region: SOUTH WEST REGION
Court Location:
Ministry District: SARNIA & HURON COUNTY
Publication City:
Publication Title:
Act:
Act(s):
First Matter:

Second Matter:
Investigation 1:
Investigation 2:
Penalty Imposed:
Description: DISCHARGE OF SULPHIDES, DISULPHIDES AND TRISULPHIDES INTO THE NATURAL ENVIRONMENT LIKELY TO CAUSE AN ADVERSE EFFECT.
Background:
URL:

Additional Details

Publication Date:
Count: 1
Act: EPA
Regulation:
Section: 14(1)
Act/Regulation/Section: EPA 14(1)
Date of Offence:
Date of Conviction:
Date Charged: 1/16/2003
Charge Disposition: FINED
Fine: $180,000.00
Synopsis:

Site: ***Lafarge Canada Inc.***
Montrose Road Niagara Falls ON

Database: ***CONV***

File No:
Crown Brief No:
Court Location:
Publication City:
Location: St. Catharines
Region:
Ministry District:
Publication Title: Ready-Mix Concrete Company fined $50,000 for Failing to Notify Ministry of a Spill
Act: Environmental Protection Act (EPA)
Act(s):
First Matter:
Second Matter:
Investigation 1:
Investigation 2:
Penalty Imposed: Lafarge Canada Inc., was convicted of one offence under the Environmental Protection Act (EPA), and was fined $50,000 plus a victim fine surcharge (VFS) of $12,500 with 90 days to pay. A Section 190 Court Order was also issued by the court to Lafarge, which requires the company to install abatement technology on Silo #2 at its Niagara Falls facility, as a preventative measure.
Description: The conviction relates to failing to notify the ministry of a spill of a pollutant to the natural environment, namely slag particulate
Background: Lafarge Canada Inc. operates as a ready-mix concrete batching plant, located on Montrose Road in Niagara Falls.

On July 23, 2014, the ministry received a report from a residential neighbour that his property and vehicle were covered in a fine white particulate.

Ministry staff responded, observed the white particulate, and took photographs and samples of the material for testing an analysis.

During the inspection, it was observed that the Lafarge site was adjacent to the impacted property.

Ministry staff investigated with Lafarge and were informed that the company had received a load of slag cement earlier that day, and that when the load was being filled into the silo, the silo was overfilled resulting in a release of particles of cement slag.

The ministry officer informed Lafarge that a neighboring property had been impacted; Lafarge agreed to contact the neighbour and clean the property.

Samples from both Lafarge and the adjacent property contained glassy calcium silicate slag.

The incidents were referred to the ministry's Investigations and Enforcement Branch, resulting in charges and one conviction.
URL: https://news.ontario.ca/ene/en/2017/11/ready-mix-concrete-company-fined-50000-for-failing-to-notify-ministry-of-a-spill.html

Additional Details

Publication Date: November 27, 2017 10:00 A.M.
Count:
Act:
Regulation:
Section:
Act/Regulation/Section:
Date of Offence: July 23, 2014
Date of Conviction: November 22, 2017
Date Charged:
Charge Disposition:
Fine: $50,000
Synopsis:

Site: ***The Corporation of the City of Niagara Falls***
Dorchester Rd Niagara Falls ON L2E 6X5

Database: ***ECA***

Approval No: 9221-8RBKNL
Approval Date: 2012-02-17
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: The Corporation of the City of Niagara Falls
Address: Dorchester Rd
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/9270-8RAQBT-14.pdf
PDF Site Location:

Site: ***The Corporation of the City of Niagara Falls***
from Montrose Road to 100 metres west Niagara Falls ON L2E 6X5

Database: ***ECA***

Approval No: 9879-6G6J7K
Approval Date: 2005-09-13
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:
Approval Type: ECA-Municipal Drinking Water Systems
Project Type: Municipal Drinking Water Systems
Business Name: The Corporation of the City of Niagara Falls
Address: from Montrose Road to 100 metres west
Full Address:
Full PDF Link:
PDF Site Location:

Site: ***The Regional Municipality of Niagara***
Montrose Rd Niagara Falls ON

Database: ***ECA***

Approval No: 6146-7RLK55
Approval Date: 2009-05-01
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: The Regional Municipality of Niagara
Address: Montrose Rd
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/4355-7REMBJ-14.pdf

PDF Site Location:

Site: ***The Corporation of the City of Niagara Falls***
Dorchester Rd Niagara Falls ON L2E 6X5

Database: ***ECA***

Approval No:	2392-6R7P26	***MOE District:***	
Approval Date:	2006-07-20	***City:***	
Status:	Approved	***Longitude:***	
Record Type:	ECA	***Latitude:***	
Link Source:	IDS	***Geometry X:***	
SWP Area Name:		***Geometry Y:***	

Approval Type: ECA-Municipal Drinking Water Systems
Project Type: Municipal Drinking Water Systems
Business Name: The Corporation of the City of Niagara Falls
Address: Dorchester Rd
Full Address:
Full PDF Link:
PDF Site Location:

Site: ***The Corporation of the City of Niagara Falls***
Dorchester Rd Niagara Falls ON L2E 6X5

Database: ***ECA***

Approval No:	6016-6R7PDN	***MOE District:***	
Approval Date:	2006-07-20	***City:***	
Status:	Approved	***Longitude:***	
Record Type:	ECA	***Latitude:***	
Link Source:	IDS	***Geometry X:***	
SWP Area Name:		***Geometry Y:***	

Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: The Corporation of the City of Niagara Falls
Address: Dorchester Rd
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/3021-6PHS27-14.pdf
PDF Site Location:

Site: ***The Corporation of the City of Niagara Falls***
Montrose Rd Niagara Falls ON

Database: ***ECA***

Approval No:	3874-4KUSJZ	***MOE District:***	
Approval Date:	2000-06-05	***City:***	
Status:	Approved	***Longitude:***	
Record Type:	ECA	***Latitude:***	
Link Source:	IDS	***Geometry X:***	
SWP Area Name:		***Geometry Y:***	

Approval Type: ECA-Municipal and Private Water Works
Project Type: Municipal and Private Water Works
Business Name: The Corporation of the City of Niagara Falls
Address: Montrose Rd
Full Address:
Full PDF Link:
PDF Site Location:

Site: ***The Regional Municipality of Niagara***
Montrose Rd Niagara Falls ON

Database: ***ECA***

Approval No:	7074-4KPQZX	***MOE District:***	
Approval Date:	2000-06-05	***City:***	
Status:	Approved	***Longitude:***	
Record Type:	ECA	***Latitude:***	
Link Source:	IDS	***Geometry X:***	
SWP Area Name:		***Geometry Y:***	

Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: The Regional Municipality of Niagara
Address: Montrose Rd
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/6007-4KERD6-14.pdf
PDF Site Location:

Site: ***The Corporation of the City of Niagara Falls***
Montrose Rd Niagara Falls ON L2E 6X5

Database: ***ECA***

Approval No: 3382-6V5RB3
Approval Date: 2006-11-09
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: The Corporation of the City of Niagara Falls
Address: Montrose Rd
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/8558-6TMTDM-14.pdf
PDF Site Location:

Site:
Montrose Road Niagara Falls ON

Database: ***EHS***

Order No: 20130321024
Status: C
Report Type: Custom Report
Report Date: 28-MAR-13
Date Received: 21-MAR-13
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:
Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: 0
Y: 0

Site: ***MORNINGSTAR LUMBER LIMITED***
MONTROSE RD NIAGARA FALLS ON L2H

Database: ***SCT***

Established: 0000
Plant Size (ft²): 1400
Employment: 1

--Details--
Description: HARDWOOD DIMENSION AND FLOORING MILLS
SIC/NAICS Code: 2426

Description: Other Millwork
SIC/NAICS Code: 321919

Site: ***PUC***
DORCHESTER RD PUMPING STATION TO HYDRO CANAL PUMPING STATION INVALID SITE ENTRY - PLEASE USE ANOTHER NIAGARA FALLS CITY ON

Database: ***SPL***

Ref No: 66178
Site No:
Incident Dt: 1/17/1992
Year:
Incident Cause: WASTEWATER DISCHARGE TO WATERCOURSE
Incident Event:
Discharger Report:
Material Group:
Health/Env Conseq:
Client Type:
Sector Type:
Agency Involved:

Contaminant Code:		***Nearest Watercourse:***	
Contaminant Name:		***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	
Contam Limit Freq 1:		***Site Postal Code:***	
Contaminant UN No 1:		***Site Region:***	
Environment Impact:	POSSIBLE	***Site Municipality:***	18101
Nature of Impact:	Surface Water Pollution	***Site Lot:***	
Receiving Medium:	WATER	***Site Conc:***	
Receiving Env:		***Northing:***	
MOE Response:		***Easting:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	
MOE Reported Dt:	1/17/1992	***Site Map Datum:***	
Dt Document Closed:		***SAC Action Class:***	
Incident Reason:	POWER INTERRUPTION	***Source Type:***	
Site Name:			
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	PUC - 40MIN RAW SEWAGE BYPASS TO HYDRO CANAL DUETO POWER FAILURE.		
Contaminant Qty:			

Site: ***SUNOCO***
SERVICE STATION NIAGARA FALLS CITY ON

Database: ***SPL***

Ref No:	21829	***Discharger Report:***	
Site No:		***Material Group:***	
Incident Dt:	7/11/1989	***Health/Env Conseq:***	
Year:		***Client Type:***	
Incident Cause:	OTHER CAUSE (N.O.S.)	***Sector Type:***	
Incident Event:		***Agency Involved:***	
Contaminant Code:		***Nearest Watercourse:***	
Contaminant Name:		***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	
Contam Limit Freq 1:		***Site Postal Code:***	
Contaminant UN No 1:		***Site Region:***	
Environment Impact:		***Site Municipality:***	18101
Nature of Impact:		***Site Lot:***	
Receiving Medium:	LAND / WATER	***Site Conc:***	
Receiving Env:		***Northing:***	
MOE Response:		***Easting:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	
MOE Reported Dt:	7/11/1989	***Site Map Datum:***	
Dt Document Closed:		***SAC Action Class:***	
Incident Reason:	ERROR	***Source Type:***	
Site Name:			
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	SUNOCO- SPILL OF 200 LTR OF GASOLINE AT A SERVICE STATION		
Contaminant Qty:			

Site: ***CHEMACRYL***
DORCHESTER ST. NIAGARA FALLS PLANT 8100 DORCHESTER STREET NIAGARA FALLS CITY ON

Database: ***SPL***

Ref No:	7336	***Discharger Report:***	
Site No:		***Material Group:***	
Incident Dt:	7/30/1988	***Health/Env Conseq:***	
Year:		***Client Type:***	
Incident Cause:	PROCESS UPSET	***Sector Type:***	
Incident Event:		***Agency Involved:***	
Contaminant Code:		***Nearest Watercourse:***	
Contaminant Name:		***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	
Contam Limit Freq 1:		***Site Postal Code:***	
Contaminant UN No 1:		***Site Region:***	
Environment Impact:		***Site Municipality:***	18101
Nature of Impact:		***Site Lot:***	
Receiving Medium:	AIR	***Site Conc:***	

Receiving Env:		***Northing:***	
MOE Response:		***Easting:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	
MOE Reported Dt:	7/30/1988	***Site Map Datum:***	
Dt Document Closed:		***SAC Action Class:***	
Incident Reason:	INTENTIONAL/PLANNED	***Source Type:***	
Site Name:			
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	CHEMACRYL-METHYL METHA- CRYLATE VAPOURS TO ATM. FOR 105 MIN.		
Contaminant Qty:			

Site: ***TRANSPORT TRUCK***
AT MONTROSE ST. 1 MILE SOUTH OF MCLEOD MOTOR VEHICLE (OPERATING FLUID) NIAGARA FALLS CITY ON

Database: ***SPL***

Ref No:	111940	***Discharger Report:***	
Site No:		***Material Group:***	
Incident Dt:	4/13/1995	***Health/Env Conseq:***	
Year:		***Client Type:***	
Incident Cause:	TRUCK/TRAILER OVERTURN	***Sector Type:***	
Incident Event:		***Agency Involved:***	
Contaminant Code:		***Nearest Watercourse:***	
Contaminant Name:		***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	
Contam Limit Freq 1:		***Site Postal Code:***	
Contaminant UN No 1:		***Site Region:***	
Environment Impact:	POSSIBLE	***Site Municipality:***	18101
Nature of Impact:	Water course or lake	***Site Lot:***	
Receiving Medium:	LAND / WATER	***Site Conc:***	
Receiving Env:		***Northing:***	
MOE Response:		***Easting:***	FIRE, POLICE, REGIONAL WORKS
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	
MOE Reported Dt:	4/13/1995	***Site Map Datum:***	
Dt Document Closed:		***SAC Action Class:***	
Incident Reason:	ERROR	***Source Type:***	
Site Name:			
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	TRANSPORT TRUCK- 900 L OFDIESEL TO ROAD & DITCH FROM SADDLE TANKS.		
Contaminant Qty:			

Site: ***TRANSPORT TRUCK***
DORCHESTER RD. MOTOR VEHICLE (OPERATING FLUID) NIAGARA FALLS CITY ON

Database: ***SPL***

Ref No:	77769	***Discharger Report:***	
Site No:		***Material Group:***	
Incident Dt:	10/20/1992	***Health/Env Conseq:***	
Year:		***Client Type:***	
Incident Cause:	TRUCK/TRAILER OVERTURN	***Sector Type:***	
Incident Event:		***Agency Involved:***	
Contaminant Code:		***Nearest Watercourse:***	
Contaminant Name:		***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	
Contam Limit Freq 1:		***Site Postal Code:***	
Contaminant UN No 1:		***Site Region:***	
Environment Impact:	CONFIRMED	***Site Municipality:***	18101
Nature of Impact:	Soil contamination	***Site Lot:***	
Receiving Medium:	LAND	***Site Conc:***	
Receiving Env:		***Northing:***	
MOE Response:		***Easting:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	
MOE Reported Dt:	10/20/1992	***Site Map Datum:***	
Dt Document Closed:		***SAC Action Class:***	
Incident Reason:	ADVERSE ROAD CONDITION	***Source Type:***	
Site Name:			
Site County/District:			

Site Geo Ref Meth:
Incident Summary: TRANSPORT TRUCK OVERTURN:10L HYDRAULIC FLUID LEAK TO GRAVEL
Contaminant Qty:

Site: ***NIAGARA, REGIONAL MUNICIPALITY***
NIAGARA RIVER FROM DORCHESTER RD. PUMPING STATION SANITARY SEWER SYSTEM/PUMPING STATION
NIAGARA FALLS CITY ON

Database: ***SPL***

Ref No:	151496	***Discharger Report:***	
Site No:		***Material Group:***	
Incident Dt:	1/15/1998	***Health/Env Conseq:***	
Year:		***Client Type:***	
Incident Cause:	WASTEWATER DISCHARGE TO WATERCOURSE	***Sector Type:***	
Incident Event:		***Agency Involved:***	
Contaminant Code:		***Nearest Watercourse:***	
Contaminant Name:		***Site Address:***	
Contaminant Limit 1:		***Site District Office:***	
Contam Limit Freq 1:		***Site Postal Code:***	
Contaminant UN No 1:		***Site Region:***	
Environment Impact:	POSSIBLE	***Site Municipality:***	18101
Nature of Impact:	Water course or lake	***Site Lot:***	
Receiving Medium:	WATER	***Site Conc:***	
Receiving Env:		***Northing:***	
MOE Response:		***Easting:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	
MOE Reported Dt:	1/15/1998	***Site Map Datum:***	
Dt Document Closed:		***SAC Action Class:***	
Incident Reason:	EQUIPMENT FAILURE	***Source Type:***	

Site Name:
Site County/District:
Site Geo Ref Meth:
Incident Summary: NIAGARA REGION - SEWAGE BYPASSED TO NIAGARA R. DUE TO PUMP FAILURE.
Contaminant Qty:

Appendix: Database Descriptions

Environmental Risk Information Services (ERIS) can search the following databases. The extent of historical information varies with each database and current information is determined by what is publicly available to ERIS at the time of update. ***Note:*** *Databases denoted with " * " indicates that the database will no longer be updated. See the individual database description for more information.*

Abandoned Aggregate Inventory: Provincial AAGR

The MAAP Program maintains a database of abandoned pits and quarries. Please note that the database is only referenced by lot and concession and city/town location. The database provides information regarding the location, type, size, land use, status and general comments.*

Government Publication Date: Sept 2002*

Aggregate Inventory: Provincial AGR

The Ontario Ministry of Natural Resources maintains a database of all active pits and quarries. The database provides information regarding the registered owner/operator, location name, operation type, approval type, and maximum annual tonnage.

Government Publication Date: Up to Sep 2020

Abandoned Mine Information System: Provincial AMIS

The Abandoned Mines Information System contains data on known abandoned and inactive mines located on both Crown and privately held lands. The information was provided by the Ministry of Northern Development and Mines (MNDM), with the following disclaimer: "the database provided has been compiled from various sources, and the Ministry of Northern Development and Mines makes no representation and takes no responsibility that such information is accurate, current or complete". Reported information includes official mine name, status, background information, mine start/end date, primary commodity, mine features, hazards and remediation.

Government Publication Date: 1800-Oct 2018

Anderson's Waste Disposal Sites: Private ANDR

The information provided in this database was collected by examining various historical documents which aimed to characterize the likely position of former waste disposal sites from 1860 to present. The research initiative behind the creation of this database was to identify those sites that are missing from the Ontario MOE Waste Disposal Site Inventory, as well as to provide revisions and corrections to the positions and descriptions of sites currently listed in the MOE inventory. In addition to historic waste disposal facilities, the database also identifies certain auto wreckers and scrap yards that have been extrapolated from documentary sources. Please note that the data is not warranted to be complete, exhaustive or authoritative. The information was collected for research purposes only.

Government Publication Date: 1860s-Present

Aboveground Storage Tanks: Provincial AST

Historical listing of aboveground storage tanks made available by the Department of Natural Resources and Forestry. Includes tanks used to hold water or petroleum. This dataset has been retired as of September 25, 2014 and will no longer be updated.

Government Publication Date: May 31, 2014

Automobile Wrecking & Supplies: Private AUWR

This database provides an inventory of known locations that are involved in the scrap metal, automobile wrecking/recycling, and automobile parts & supplies industry. Information is provided on the company name, location and business type.

Government Publication Date: 1999-Sep 30, 2021

Borehole: Provincial BORE

A borehole is the generalized term for any narrow shaft drilled in the ground, either vertically or horizontally. The information here includes geotechnical investigations or environmental site assessments, mineral exploration, or as a pilot hole for installing piers or underground utilities. Information is from many sources such as the Ministry of Transportation (MTO) boreholes from engineering reports and projects from the 1950 to 1990's in Southern Ontario. Boreholes from the Ontario Geological Survey (OGS) including The Urban Geology Analysis Information System (UGAIS) and the York Peel Durham Toronto (YPDT) database of the Conservation Authority Moraine Coalition. This database will include fields such as location, stratigraphy, depth, elevation, year drilled, etc. For all water well data or oil and gas well data for Ontario please refer to WWIS and OOGW.

Government Publication Date: 1875-Jul 2018

Certificates of Approval: Provincial CA

This database contains the following types of approvals: Air & Noise, Industrial Sewage, Municipal & Private Sewage, Waste Management Systems and Renewable Energy Approvals. The MOE in Ontario states that any facility that releases emissions to the atmosphere, discharges contaminants to ground or surface water, provides potable water supplies, or stores, transports or disposes of waste, must have a Certificate of Approval before it can operate lawfully. Fields include approval number, business name, address, approval date, approval type and status. This database will no longer be updated, as CofA's have been replaced by either Environmental Activity and Sector Registry (EASR) or Environmental Compliance Approval (ECA). Please refer to those individual databases for any information after Oct.31, 2011.

Government Publication Date: 1985-Oct 30, 2011*

Dry Cleaning Facilities: Federal CDRY

List of dry cleaning facilities made available by Environment and Climate Change Canada. Environment and Climate Change Canada's Tetrachloroethylene (Use in Dry Cleaning and Reporting Requirements) Regulations (SOR/2003-79) are intended to reduce releases of tetrachloroethylene to the environment from dry cleaning facilities.

Government Publication Date: Jan 2004-Dec 2019

Commercial Fuel Oil Tanks: Provincial CFOT

Locations of commercial underground fuel oil tanks. This is not a comprehensive or complete inventory of commercial fuel tanks in the province; this listing is a copy of records of registered commercial underground fuel oil tanks obtained under Access to Public Information.
Note that the following types of tanks do not require registration: waste oil tanks in apartments, office buildings, residences, etc.; aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: May 31, 2021

Chemical Manufacturers and Distributors: Private CHEM

This database includes information from both a one time study conducted in 1992 and private source and is a listing of facilities that manufacture or distribute chemicals. The production of these chemical substances may involve one or more chemical reactions and/or chemical separation processes (i.e. fractionation, solvent extraction, crystallization, etc.).

Government Publication Date: 1999-Jan 31, 2020

Chemical Register: Private CHM

This database includes a listing of locations of facilities within the Province or Territory that either manufacture and/or distributes chemicals.

Government Publication Date: 1999-Sep 30, 2021

Compressed Natural Gas Stations: Private CNG

Canada has a network of public access compressed natural gas (CNG) refuelling stations. These stations dispense natural gas in compressed form at 3,000 pounds per square inch (psi), the pressure which is allowed within the current Canadian codes and standards. The majority of natural gas refuelling is located at existing retail gasoline that have a separate refuelling island for natural gas. This list of stations is made available by the Canadian Natural Gas Vehicle Alliance.

Government Publication Date: Dec 2012 -Aug 2021

Inventory of Coal Gasification Plants and Coal Tar Sites: Provincial COAL

This inventory includes both the "Inventory of Coal Gasification Plant Waste Sites in Ontario-April 1987" and the Inventory of Industrial Sites Producing or Using Coal Tar and Related Tars in Ontario-November 1988) collected by the MOE. It identifies industrial sites that produced and continue to produce or use coal tar and other related tars. Detailed information is available and includes: facility type, size, land use, information on adjoining properties, soil condition, site operators/occupants, site description, potential environmental impacts and historic maps available. This was a one-time inventory.*

Government Publication Date: Apr 1987 and Nov 1988*

Compliance and Convictions: Provincial CONV

This database summarizes the fines and convictions handed down by the Ontario courts beginning in 1989. Companies and individuals named here have been found guilty of environmental offenses in Ontario courts of law.

Government Publication Date: 1989-Jul 2021

Certificates of Property Use: Provincial CPU

This is a subset taken from Ontario's Environmental Registry (EBR) database. It will include all CPU's on the registry such as (EPA s. 168.6) - Certificate of Property Use.

Government Publication Date: 1994 - Sep 30, 2021

Drill Hole Database: Provincial DRL

The Ontario Drill Hole Database contains information on more than 113,000 percussion, overburden, sonic and diamond drill holes from assessment files on record with the department of Mines and Minerals. Please note that limited data is available for southern Ontario, as it was the last area to be completed. The database was created when surveys submitted to the Ministry were converted in the Assessment File Research Image Database (AFRI) project. However, the degree of accuracy (coordinates) as to the exact location of drill holes is dependent upon the source document submitted to the MNDM. Levels of accuracy used to locate holes are: centering on the mining claim; a sketch of the mining claim; a 1:50,000 map; a detailed company map; or from submitted a "Report of Work".

Government Publication Date: 1886 - Sep 2020

Delisted Fuel Tanks: Provincial DTNK

List of fuel storage tank sites that were once found in - and have since been removed from - the list of fuel storage tanks made available by the regulatory agency under Access to Public Information.

Government Publication Date: May 31, 2021

Environmental Activity and Sector Registry: Provincial EASR

On October 31, 2011, a smarter, faster environmental approvals system came into effect in Ontario. The EASR allows businesses to register certain activities with the ministry, rather than apply for an approval. The registry is available for common systems and processes, to which preset rules of operation can be applied. The EASR is currently available for: heating systems, standby power systems and automotive refinishing. Businesses whose activities aren't subject to the EASR may apply for an ECA (Environmental Compliance Approval), Please see our ECA database.

Government Publication Date: Oct 2011- Sep 30, 2021

Environmental Registry: Provincial EBR

The Environmental Registry lists proposals, decisions and exceptions regarding policies, Acts, instruments, or regulations that could significantly affect the environment. Through the Registry, thirteen provincial ministries notify the public of upcoming proposals and invite their comments. For example, if a local business is requesting a permit, license, or certificate of approval to release substances into the air or water; these are notified on the registry. Data includes: Approval for discharge into the natural environment other than water (i.e. Air) - EPA s. 9, Approval for sewage works - OWRA s. 53(1), and EPA s. 27 - Approval for a waste disposal site. For information regarding Permit to Take Water (PTTW), Certificate of Property Use (CPU) and (ORD) Orders please refer to those individual databases.

Government Publication Date: 1994- Sep 30, 2021

Environmental Compliance Approval: Provincial ECA

On October 31, 2011, a smarter, faster environmental approvals system came into effect in Ontario. In the past, a business had to apply for multiple approvals (known as certificates of approval) for individual processes and pieces of equipment. Today, a business either registers itself, or applies for a single approval, depending on the types of activities it conducts. Businesses whose activities aren't subject to the EASR may apply for an ECA. A single ECA addresses all of a business's emissions, discharges and wastes. Separate approvals for air, noise and waste are no longer required. This database will also include Renewable Energy Approvals. For certificates of approval prior to Nov 1st, 2011, please refer to the CA database. For all Waste Disposal Sites please refer to the WDS database.

Government Publication Date: Oct 2011- Sep 30, 2021

Environmental Effects Monitoring: Federal EEM

The Environmental Effects Monitoring program assesses the effects of effluent from industrial or other sources on fish, fish habitat and human usage of fisheries resources. Since 1992, pulp and paper mills have been required to conduct EEM studies under the Pulp and Paper Effluent Regulations. This database provides information on the mill name, geographical location and sub-lethal toxicity data.

Government Publication Date: 1992-2007*

ERIS Historical Searches: Private EHS

ERIS has compiled a database of all environmental risk reports completed since March 1999. Available fields for this database include: site location, date of report, type of report, and search radius. As per all other databases, the ERIS database can be referenced on both the map and "Statistical Profile" page.

Government Publication Date: 1999-Jun 30, 2021

Environmental Issues Inventory System: Federal EIIS

The Environmental Issues Inventory System was developed through the implementation of the Environmental Issues and Remediation Plan. This plan was established to determine the location and severity of contaminated sites on inhabited First Nation reserves, and where necessary, to remediate those that posed a risk to health and safety; and to prevent future environmental problems. The EIIS provides information on the reserve under investigation, inventory number, name of site, environmental issue, site action (Remediation, Site Assessment), and date investigation completed.

Government Publication Date: 1992-2001*

Emergency Management Historical Event: Provincial EMHE

List of locations of historical occurrences of emergency events, including those assigned to the Ministry of Natural Resources by Order-In-Council (OIC) under the Emergency Management and Civil Protection Act, as well as events where MNR provided requested emergency response assistance. Many of these events will have involved community evacuations, significant structural loss, and/or involvement of MNR emergency response staff. These events fall into one of ten (10) type categories: Dam Failure; Drought / Low Water; Erosion; Flood; Forest Fire; Soil and Bedrock Instability; Petroleum Resource Center Event, EMO Requested Assistance, Continuity of Operations Event, Other Requested Assistance. EMHE record details are reproduced by ERIS under License with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2017.

Government Publication Date: Dec 31, 2016

Environmental Penalty Annual Report: Provincial EPAR

This database contains data from Ontario's annual environmental penalty report published by the Ministry of the Environment and Climate Change. These reports provide information on environmental penalties for land or water violations issued to companies in one of the nine industrial sectors covered by the Municipal Industrial Strategy for Abatement (MISA) regulations.

Government Publication Date: Jan 1, 2011 - Dec 31, 2020

List of Expired Fuels Safety Facilities: Provincial EXP

List of facilities and tanks for which there was once a fuel registration. This is not a comprehensive or complete inventory of expired tanks/tank facilities in the province; this listing is a copy of previously registered tanks and facilities obtained under Access to Public Information. Includes private fuel outlets, bulk plants, fuel oil tanks, gasoline stations, marinas, propane filling stations, liquid fuel tanks, piping systems, etc; includes tanks which have been removed from the ground.
Notes: registration was not required for private fuel underground/aboveground storage tanks prior to January 1990, nor for furnace oil tanks prior to May 1, 2002; registration is not required for waste oil tanks in apartments, office buildings, residences, etc., or aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: May 31, 2020

Federal Convictions: Federal FCON

Environment Canada maintains a database referred to as the "Environmental Registry" that details prosecutions under the Canadian Environmental Protection Act (CEPA) and the Fisheries Act (FA). Information is provided on the company name, location, charge date, offence and penalty.

Government Publication Date: 1988-Jun 2007*

Contaminated Sites on Federal Land: Federal FCS

The Federal Contaminated Sites Inventory includes information on known federal contaminated sites under the custodianship of departments, agencies and consolidated Crown corporations as well as those that are being or have been investigated to determine whether they have contamination arising from past use that could pose a risk to human health or the environment. The inventory also includes non-federal contaminated sites for which the Government of Canada has accepted some or all financial responsibility. It does not include sites where contamination has been caused by, and which are under the control of, enterprise Crown corporations, private individuals, firms or other levels of government. Includes fire training sites and sites at which Per- and Polyfluoroalkyl Substances (PFAS) are a concern.

Government Publication Date: Jun 2000-Aug 2021

Fisheries & Oceans Fuel Tanks: Federal FOFT

Fisheries & Oceans Canada maintains an inventory of aboveground & underground fuel storage tanks located on Fisheries & Oceans property or controlled by DFO. Our inventory provides information on the site name, location, tank owner, tank operator, facility type, storage tank location, tank contents & capacity, and date of tank installation.

Government Publication Date: 1964-Sep 2019

Federal Identification Registry for Storage Tank Systems (FIRSTS): Federal FRST

A list of federally regulated Storage tanks from the Federal Identification Registry for Storage Tank Systems (FIRSTS). FIRSTS is Environment and Climate Change Canada's database of storage tank systems subject to the Storage Tank for Petroleum Products and Allied Petroleum Products Regulations. The main objective of the Regulations is to prevent soil and groundwater contamination from storage tank systems located on federal and aboriginal lands. Storage tank systems that do not have a valid identification number displayed in a readily visible location on or near the storage tank system may be refused product delivery.

Government Publication Date: May 31, 2018

Fuel Storage Tank: Provincial FST

List of registered private and retail fuel storage tanks. This is not a comprehensive or complete inventory of private and retail fuel storage tanks in the province; this listing is a copy of registered private and retail fuel storage tanks, obtained under Access to Public Information.
Notes: registration was not required for private fuel underground/aboveground storage tanks prior to January 1990, nor for furnace oil tanks prior to May 1, 2002; registration is not required for waste oil tanks in apartments, office buildings, residences, etc., or aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: May 31, 2021

Fuel Storage Tank - Historic: Provincial FSTH

The Fuels Safety Branch of the Ontario Ministry of Consumer and Commercial Relations maintained a database of all registered private fuel storage tanks. Public records of private fuel storage tanks are only available since the registration became effective in September 1989. This information is now collected by the Technical Standards and Safety Authority.

Government Publication Date: Pre-Jan 2010*

Ontario Regulation 347 Waste Generators Summary: Provincial GEN

Regulation 347 of the Ontario EPA defines a waste generation site as any site, equipment and/or operation involved in the production, collection, handling and/or storage of regulated wastes. A generator of regulated waste is required to register the waste generation site and each waste produced, collected, handled, or stored at the site. This database contains the registration number, company name and address of registered generators including the types of hazardous wastes generated. It includes data on waste generating facilities such as: drycleaners, waste treatment and disposal facilities, machine shops, electric power distribution etc. This information is a summary of all years from 1986 including the most currently available data. Some records may contain, within the company name, the phrase "See & Use..." followed by a series of letters and numbers. This occurs when one company is amalgamated with or taken over by another registered company. The number listed as "See & Use", refers to the new ownership and the other identification number refers to the original ownership. This phrase serves as a link between the 2 companies until operations have been fully transferred.

Government Publication Date: 1986-Aug 31, 2021

Greenhouse Gas Emissions from Large Facilities: Federal GHG

List of greenhouse gas emissions from large facilities made available by Environment Canada. Greenhouse gas emissions in kilotonnes of carbon dioxide equivalents (kt CO2 eq).

Government Publication Date: 2013-Dec 2019

TSSA Historic Incidents: Provincial HINC

List of historic incidences of spills and leaks of diesel, fuel oil, gasoline, natural gas, propane, and hydrogen recorded by the TSSA in their previous incident tracking system. The TSSA's Fuels Safety Program administers the Technical Standards & Safety Act 2000, providing fuel-related safety services associated with the safe transportation, storage, handling and use of fuels such as gasoline, diesel, propane, natural gas and hydrogen. Under this Act, the TSSA regulates fuel suppliers, storage facilities, transport trucks, pipelines, contractors and equipment or appliances that use fuels. Records are not verified for accuracy or completeness. This is not a comprehensive or complete inventory of historical fuel spills and leaks in the province. This listing is a copy of the data captured at one moment in time and is hence limited by the record date provided here.

Government Publication Date: 2006-June 2009*

Indian & Northern Affairs Fuel Tanks: Federal IAFT

The Department of Indian & Northern Affairs Canada (INAC) maintains an inventory of aboveground & underground fuel storage tanks located on both federal and crown land. Our inventory provides information on the reserve name, location, facility type, site/facility name, tank type, material & ID number, tank contents & capacity, and date of tank installation.

Government Publication Date: 1950-Aug 2003*

Fuel Oil Spills and Leaks: Provincial INC

Listing of spills and leaks of diesel, fuel oil, gasoline, natural gas, propane, and hydrogen reported to the Spills Action Centre (SAC). This is not a comprehensive or complete inventory of fuel-related leaks, spills, and incidents in the province; this listing in a copy of incidents reported to the SAC, obtained under Access to Public Information. Includes incidents from fuel-related hazards such as spills, fires, and explosions. Records are not verified for accuracy or completeness.

Government Publication Date: May 31, 2021

Landfill Inventory Management Ontario: Provincial LIMO

The Landfill Inventory Management Ontario (LIMO) database is updated every year, as the Ministry of the Environment, Conservation and Parks compiles new and updated information. Includes small and large landfills currently operating as well as those which are closed and historic. Operators of larger landfills provide landfill information for the previous operating year to the ministry for LIMO including: estimated amount of total waste received, landfill capacity, estimated total remaining landfill capacity, fill rates, engineering designs, reporting and monitoring details, size of location, service area, approved waste types, leachate of site treatment, contaminant attenuation zone and more. The small landfills include information such as site owner, site location and certificate of approval # and status.

Government Publication Date: Feb 28, 2019

Canadian Mine Locations: Private MINE

This information is collected from the Canadian & American Mines Handbook. The Mines database is a national database that provides over 290 listings on mines (listed as public companies) dealing primarily with precious metals and hard rocks. Listed are mines that are currently in operation, closed, suspended, or are still being developed (advanced projects). Their locations are provided as geographic coordinates (x, y and/or longitude, latitude). As of 2002, data pertaining to Canadian smelters and refineries has been appended to this database.

Government Publication Date: 1998-2009*

Mineral Occurrences: Provincial MNR

In the early 70's, the Ministry of Northern Development and Mines created an inventory of approximately 19,000 mineral occurrences in Ontario, in regard to metallic and industrial minerals, as well as some information on building stones and aggregate deposits. Please note that the "Horizontal Positional Accuracy" is approximately +/- 200 m. Many reference elements for each record were derived from field sketches using pace or chain/tape measurements against claim posts or topographic features in the area. The primary limiting factor for the level of positional accuracy is the scale of the source material. The testing of horizontal accuracy of the source materials was accomplished by comparing the plan metric (X and Y) coordinates of that point with the coordinates of the same point as defined from a source of higher accuracy.

Government Publication Date: 1846-Dec 2020

National Analysis of Trends in Emergencies System (NATES): Federal NATE

In 1974 Environment Canada established the National Analysis of Trends in Emergencies System (NATES) database, for the voluntary reporting of significant spill incidents. The data was to be used to assist in directing the work of the emergencies program. NATES ran from 1974 to 1994. Extensive information is available within this database including company names, place where the spill occurred, date of spill, cause, reason and source of spill, damage incurred, and amount, concentration, and volume of materials released.

Government Publication Date: 1974-1994*

Non-Compliance Reports: Provincial NCPL

The Ministry of the Environment provides information about non-compliant discharges of contaminants to air and water that exceed legal allowable limits, from regulated industrial and municipal facilities. A reported non-compliance failure may be in regard to a Control Order, Certificate of Approval, Sectoral Regulation or specific regulation/act.

Government Publication Date: Dec 31, 2019

National Defense & Canadian Forces Fuel Tanks: Federal NDFT

The Department of National Defense and the Canadian Forces maintains an inventory of all aboveground & underground fuel storage tanks located on DND lands. Our inventory provides information on the base name, location, tank type & capacity, tank contents, tank class, date of tank installation, date tank last used, and status of tank as of May 2001. This database will no longer be updated due to the new National Security protocols which have prohibited any release of this database.

Government Publication Date: Up to May 2001*

National Defense & Canadian Forces Spills: Federal NDSP

The Department of National Defense and the Canadian Forces maintains an inventory of spills to land and water. All spill sites have been classified under the "Transportation of Dangerous Goods Act - 1992". Our inventory provides information on the facility name, location, spill ID #, spill date, type of spill, as well as the quantity of substance spilled & recovered.

Government Publication Date: Mar 1999-Apr 2018

National Defence & Canadian Forces Waste Disposal Sites: Federal NDWD

The Department of National Defence and the Canadian Forces maintains an inventory of waste disposal sites located on DND lands. Where available, our inventory provides information on the base name, location, type of waste received, area of site, depth of site, year site opened/closed and status.

Government Publication Date: 2001-Apr 2007*

National Energy Board Pipeline Incidents: Federal NEBI

Locations of pipeline incidents from 2008 to present, made available by the Canada Energy Regulator (CER) - previously the National Energy Board (NEB). Includes incidents reported under the Onshore Pipeline Regulations and the Processing Plant Regulations related to pipelines under federal jurisdiction, does not include incident data related to pipelines under provincial or territorial jurisdiction.

Government Publication Date: 2008-Jun 30, 2021

National Energy Board Wells: Federal NEBP

The NEBW database contains information on onshore & offshore oil and gas wells that are outside provincial jurisdiction(s) and are thereby regulated by the National Energy Board. Data is provided regarding the operator, well name, well ID No./UWI, status, classification, well depth, spud and release date.

Government Publication Date: 1920-Feb 2003*

National Environmental Emergencies System (NEES): Federal NEES

In 2000, the Emergencies program implemented NEES, a reporting system for spills of hazardous substances. For the most part, this system only captured data from the Atlantic Provinces, some from Quebec and Ontario and a portion from British Columbia. Data for Alberta, Saskatchewan, Manitoba and the Territories was not captured. However, NEES is also a repository for previous Environment Canada spill datasets. NEES is composed of the historic datasets ' or Trends ' which dates from approximately 1974 to present. NEES Trends is a compilation of historic databases, which were merged and includes data from NATES (National Analysis of Trends in Emergencies System), ARTS (Atlantic Regional Trends System), and NEES. In 2001, the Emergencies Program determined that variations in reporting regimes and requirements between federal and provincial agencies made national spill reporting and trend analysis difficult to achieve. As a consequence, the department has focused efforts on capturing data on spills of substances which fall under its legislative authority only (CEPA and FA). As such, the NEES database will be decommissioned in December 2004.

Government Publication Date: 1974-2003*

National PCB Inventory: Federal NPCB

Environment Canada's National PCB inventory includes information on in-use PCB containing equipment in Canada including federal, provincial and private facilities. Federal out-of-service PCB containing equipment and PCB waste owned by the federal government or by federally regulated industries such as airlines, railway companies, broadcasting companies, telephone and telecommunications companies, pipeline companies, etc. are also listed. Although it is not Environment Canada's mandate to collect data on non-federal PCB waste, the National PCB inventory includes some information on provincial and private PCB waste and storage sites. Some addresses provided may be Head Office addresses and are not necessarily the location of where the waste is being used or stored.

Government Publication Date: 1988-2008*

National Pollutant Release Inventory: Federal NPRI

Environment Canada has defined the National Pollutant Release Inventory ("NPRI") as a federal government initiative designed to collect comprehensive national data regarding releases to air, water, or land, and waste transfers for recycling for more than 300 listed substances.

Government Publication Date: 1993-May 2017

Oil and Gas Wells: Private OGWE

The Nickle's Energy Group (publisher of the Daily Oil Bulletin) collects information on drilling activity including operator and well statistics. The well information database includes name, location, class, status and depth. The main Nickle's database is updated on a daily basis, however, this database is updated on a monthly basis. More information is available at www.nickles.com.

Government Publication Date: 1988-Feb 28, 2021

Ontario Oil and Gas Wells: Provincial OOGW

In 1998, the MNR handed over to the Ontario Oil, Gas and Salt Resources Corporation, the responsibility of maintaining a database of oil and gas wells drilled in Ontario. The OGSR Library has over 20,000+ wells in their database. Information available for all wells in the ERIS database include well owner/operator, location, permit issue date, and well cap date, license No., status, depth and the primary target (rock unit) of the well being drilled. All geology/stratigraphy table information, plus all water table information is also provide for each well record.

Government Publication Date: 1800-Jan 2021

Inventory of PCB Storage Sites: Provincial OPCB

The Ontario Ministry of Environment, Waste Management Branch, maintains an inventory of PCB storage sites within the province. Ontario Regulation 11/82 (Waste Management - PCB) and Regulation 347 (Generator Waste Management) under the Ontario EPA requires the registration of inactive PCB storage equipment and/or disposal sites of PCB waste with the Ontario Ministry of Environment. This database contains information on: 1) waste quantities; 2) major and minor sites storing liquid or solid waste; and 3) a waste storage inventory.

Government Publication Date: 1987-Oct 2004; 2012-Dec 2013

Orders: Provincial ORD

This is a subset taken from Ontario's Environmental Registry (EBR) database. It will include all Orders on the registry such as (EPA s. 17) - Order for remedial work, (EPA s. 18) - Order for preventative measures, (EPA s. 43) - Order for removal of waste and restoration of site, (EPA s. 44) - Order for conformity with Act for waste disposal sites, (EPA s. 136) - Order for performance of environmental measures.

Government Publication Date: 1994-Sep 30, 2021

Canadian Pulp and Paper: Private PAP

This information is part of the Pulp and Paper Canada Directory. The Directory provides a comprehensive listing of the locations of pulp and paper mills and the products that they produce.

Government Publication Date: 1999, 2002, 2004, 2005, 2009-2014

Parks Canada Fuel Storage Tanks: Federal PCFT

Canadian Heritage maintains an inventory of known fuel storage tanks operated by Parks Canada, in both National Parks and at National Historic Sites. The database details information on site name, location, tank install/removal date, capacity, fuel type, facility type, tank design and owner/operator.

Government Publication Date: 1920-Jan 2005*

Pesticide Register: Provincial PES

The Ontario Ministry of the Environment and Climate Change maintains a database of licensed operators and vendors of registered pesticides.

Government Publication Date: Oct 2011- Sep 30, 2021

Pipeline Incidents: Provincial PINC

List of pipeline incidents (strikes, leaks, spills). This is not a comprehensive or complete inventory of pipeline incidents in the province; this listing in an historical copy of records previously obtained under Access to Public Information. Records are not verified for accuracy or completeness.

Government Publication Date: May 31, 2021

Private and Retail Fuel Storage Tanks: Provincial PRT

The Fuels Safety Branch of the Ontario Ministry of Consumer and Commercial Relations maintained a database of all registered private fuel storage tanks and licensed retail fuel outlets. This database includes an inventory of locations that have gasoline, oil, waste oil, natural gas and/or propane storage tanks on their property. The MCCR no longer collects this information. This information is now collected by the Technical Standards and Safety Authority (TSSA).

Government Publication Date: 1989-1996*

Permit to Take Water: Provincial PTTW

This is a subset taken from Ontario's Environmental Registry (EBR) database. It will include all PTTW's on the registry such as OWRA s. 34 - Permit to take water.

Government Publication Date: 1994 - Sep 30, 2021

Ontario Regulation 347 Waste Receivers Summary: Provincial REC

Part V of the Ontario Environmental Protection Act ("EPA") regulates the disposal of regulated waste through an operating waste management system or a waste disposal site operated or used pursuant to the terms and conditions of a Certificate of Approval or a Provisional Certificate of Approval. Regulation 347 of the Ontario EPA defines a waste receiving site as any site or facility to which waste is transferred by a waste carrier. A receiver of regulated waste is required to register the waste receiving facility. This database represents registered receivers of regulated wastes, identified by registration number, company name and address, and includes receivers of waste such as: landfills, incinerators, transfer stations, PCB storage sites, sludge farms and water pollution control plants. This information is a summary of all years from 1986 including the most currently available data.

Government Publication Date: 1986-1990, 1992-2018

Record of Site Condition: Provincial RSC

The Record of Site Condition (RSC) is part of the Ministry of the Environment's Brownfields Environmental Site Registry. Protection from environmental cleanup orders for property owners is contingent upon documentation known as a record of site condition (RSC) being filed in the Environmental Site Registry. In order to file an RSC, the property must have been properly assessed and shown to meet the soil, sediment and groundwater standards appropriate for the use (such as residential) proposed to take place on the property. The Record of Site Condition Regulation (O. Reg. 153/04) details requirements related to site assessment and clean up.
RSCs filed after July 1, 2011 will also be included as part of the new (O.Reg. 511/09).

Government Publication Date: 1997-Sept 2001, Oct 2004-Sep 2021

Retail Fuel Storage Tanks: Private RST

This database includes an inventory of retail fuel outlet locations (including marinas) that have on their property gasoline, oil, waste oil, natural gas and / or propane storage tanks.

Government Publication Date: 1999-Sep 30, 2021

Scott's Manufacturing Directory: Private SCT

Scott's Directories is a data bank containing information on over 200,000 manufacturers across Canada. Even though Scott's listings are voluntary, it is the most comprehensive database of Canadian manufacturers available. Information concerning a company's address, plant size, and main products are included in this database.

Government Publication Date: 1992-Mar 2011*

Ontario Spills: Provincial SPL

List of spills and incidents made available the Ministry of the Environment, Conservation and Parks. This database identifies information such as location (approximate), type and quantity of contaminant, date of spill, environmental impact, cause, nature of impact, etc. Information from 1988-2002 was part of the ORIS (Occurrence Reporting Information System). The SAC (Spills Action Centre) handles all spills reported in Ontario. Regulations for spills in Ontario are part of the MOE's Environmental Protection Act, Part X.

Government Publication Date: 1988-Sep 2020

Wastewater Discharger Registration Database: Provincial SRDS

Information under this heading is combination of the following 2 programs. The Municipal/Industrial Strategy for Abatement (MISA) division of the Ontario Ministry of Environment maintained a database of all direct dischargers of toxic pollutants within nine sectors including: Electric Power Generation; Mining; Petroleum Refining; Organic Chemicals; Inorganic Chemicals; Pulp & Paper; Metal Casting; Iron & Steel; and Quarries. All sampling information is now collected and stored within the Sample Result Data Store (SRDS).

Government Publication Date: 1990-Dec 31, 2018

Anderson's Storage Tanks: Private TANK

The information provided in this database was collected by examining various historical documents, which identified the location of former storage tanks, containing substances such as fuel, water, gas, oil, and other various types of miscellaneous products. Information is available in regard to business operating at tank site, tank location, permit year, permit & installation type, no. of tanks installed & configuration and tank capacity. Data contained within this database pertains only to the city of Toronto and is not warranted to be complete, exhaustive or authoritative. The information was collected for research purposes only.

Government Publication Date: 1915-1953*

Transport Canada Fuel Storage Tanks: Federal TCFT

List of fuel storage tanks currently or previously owned or operated by Transport Canada. This inventory also includes tanks on The Pickering Lands, which refers to 7,530 hectares (18,600 acres) of land in Pickering, Markham, and Uxbridge owned by the Government of Canada since 1972; properties on this land has been leased by the government since 1975, and falls under the Site Management Policy of Transport Canada, but is administered by Public Works and Government Services Canada. This inventory provides information on the site name, location, tank age, capacity and fuel type.

Government Publication Date: 1970 - Dec 2020

Variances for Abandonment of Underground Storage Tanks: Provincial VAR

Listing of variances granted for storage tank abandonment. This is not a comprehensive or complete inventory of tank abandonment variances in the province; this listing is a copy of tank abandonment variance records previously obtained under Access to Public Information. In Ontario, registered underground storage tanks must be removed within two years of disuse; if removal of a tank is not feasible, an application may be sought for a variance from this code requirement.
Records are not verified for accuracy or completeness.

Government Publication Date: May 31, 2021

Waste Disposal Sites - MOE CA Inventory: Provincial WDS

The Ontario Ministry of Environment, Waste Management Branch, maintains an inventory of known open (active or inactive) and closed disposal sites in the Province of Ontario. Active sites maintain a Certificate of Approval, are approved to receive and are receiving waste. Inactive sites maintain Certificate(s) of Approval but are not receiving waste. Closed sites are not receiving waste. The data contained within this database was compiled from the MOE's Certificate of Approval database. Locations of these sites may be cross-referenced to the Anderson database described under ERIS's Private Source Database section, by the CA number. All new Environmental Compliance Approvals handed out after Oct 31, 2011 for Waste Disposal Sites will still be found in this database.

Government Publication Date: Oct 2011- Sep 30, 2021

Waste Disposal Sites - MOE 1991 Historical Approval Inventory: Provincial WDSH

In June 1991, the Ontario Ministry of Environment, Waste Management Branch, published the "June 1991 Waste Disposal Site Inventory", of all known active and closed waste disposal sites as of October 30st, 1990. For each "active" site as of October 31st 1990, information is provided on site location, site/CA number, waste type, site status and site classification. For each "closed" site as of October 31st 1990, information is provided on site location, site/CA number, closure date and site classification. Locations of these sites may be cross-referenced to the Anderson database described under ERIS's Private Source Database section, by the CA number.

Government Publication Date: Up to Oct 1990*

Water Well Information System: Provincial WWIS

This database describes locations and characteristics of water wells found within Ontario in accordance with Regulation 903. It includes such information as coordinates, construction date, well depth, primary and secondary use, pump rate, static water level, well status, etc. Also included are detailed stratigraphy information, approximate depth to bedrock and the approximate depth to the water table.

Government Publication Date: Apr 30, 2021

Definitions

Database Descriptions: This section provides a detailed explanation for each database including: source, information available, time coverage, and acronyms used. They are listed in alphabetic order.

Detail Report: This is the section of the report which provides the most detail for each individual record. Records are summarized by location, starting with the project property followed by records in closest proximity.

Distance: The distance value is the distance between plotted points, not necessarily the distance between the sites' boundaries. All values are an approximation.

Direction: The direction value is the compass direction of the site in respect to the project property and/or center point of the report.

Elevation: The elevation value is taken from the location at which the records for the site address have been plotted. All values are an approximation. Source: Google Elevation API.

Executive Summary: This portion of the report is divided into 3 sections:

'Report Summary'- Displays a chart indicating how many records fall on the project property and, within the report search radii.

'Site Report Summary'-Project Property'- This section lists all the records which fall on the project property. For more details, see the 'Detail Report' section.

'Site Report Summary-Surrounding Properties'- This section summarizes all records on adjacent properties, listing them in order of proximity from the project property. For more details, see the 'Detail Report' section.

Map Key: The map key number is assigned according to closest proximity from the project property. Map Key numbers always start at #1. The project property will always have a map key of '1' if records are available. If there is a number in brackets beside the main number, this will indicate the number of records on that specific property. If there is no number in brackets, there is only one record for that property.

The symbol and colour used indicates 'elevation': the red inverted triangle will dictate 'ERIS Sites with Lower Elevation', the yellow triangle will dictate 'ERIS Sites with Higher Elevation' and the orange square will dictate 'ERIS Sites with Same Elevation.'

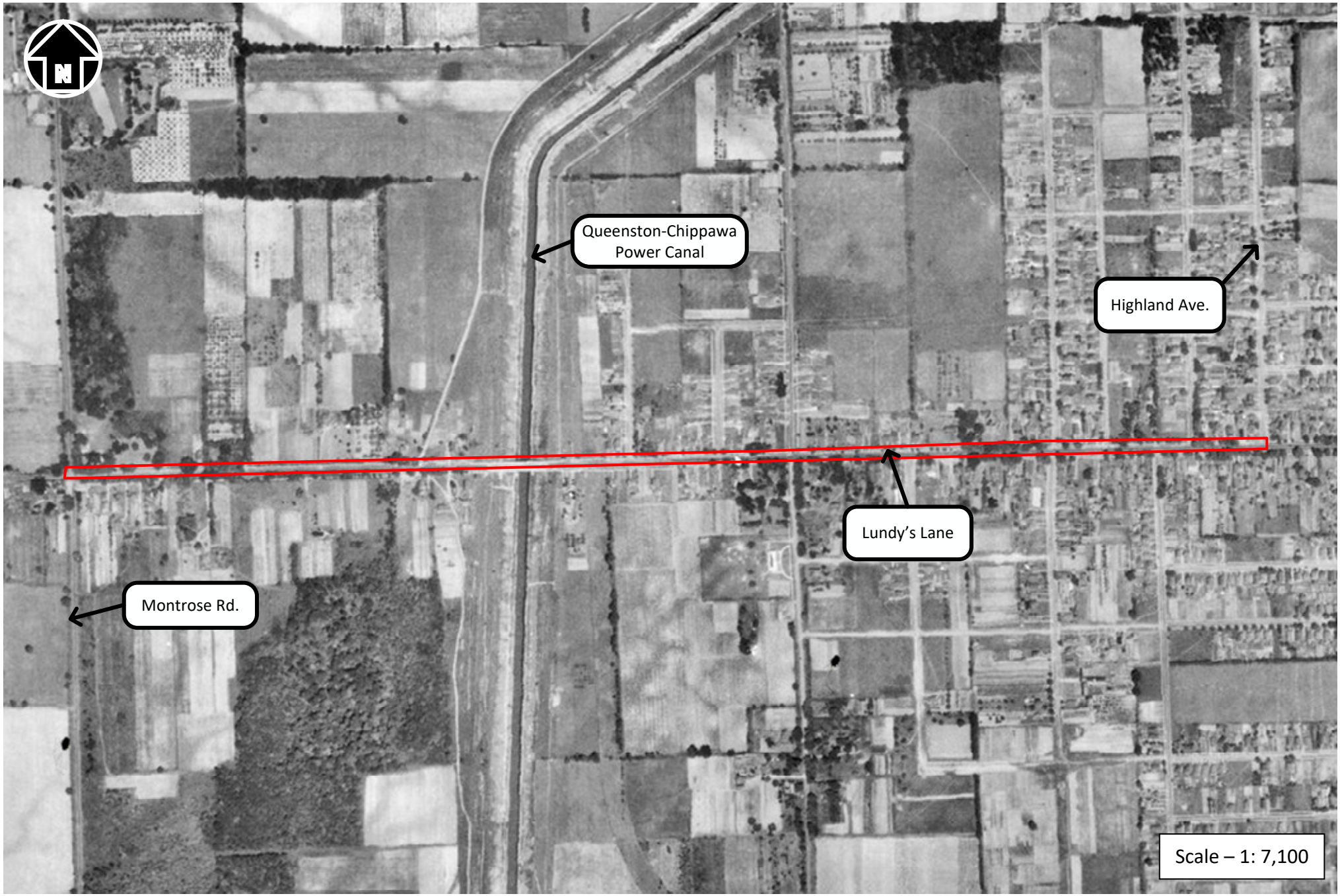
Unplottables: These are records that could not be mapped due to various reasons, including limited geographic information. These records may or may not be in your study area, and are included as reference.

Appendix 'E'

1. 1934 Aerial Photograph;
2. 1954 Aerial Photograph;
3. 1968 Aerial Photograph;
4. 1995 Aerial Photograph;
5. 2006 Aerial Photograph;
6. 2015 Aerial Photograph, and;
7. 2021 Aerial Photograph.

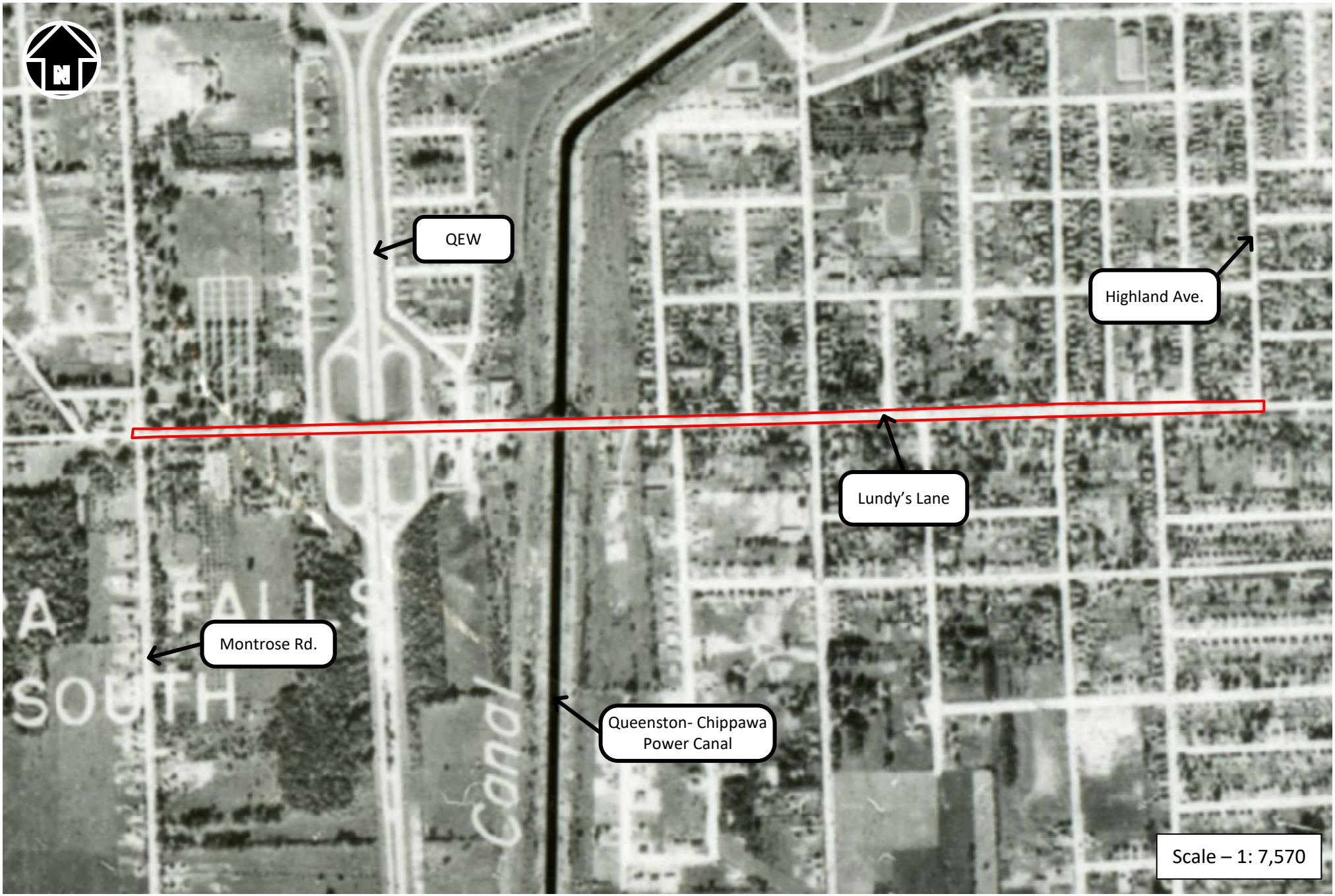
Aerial Photograph – 1934

Soil-Mat



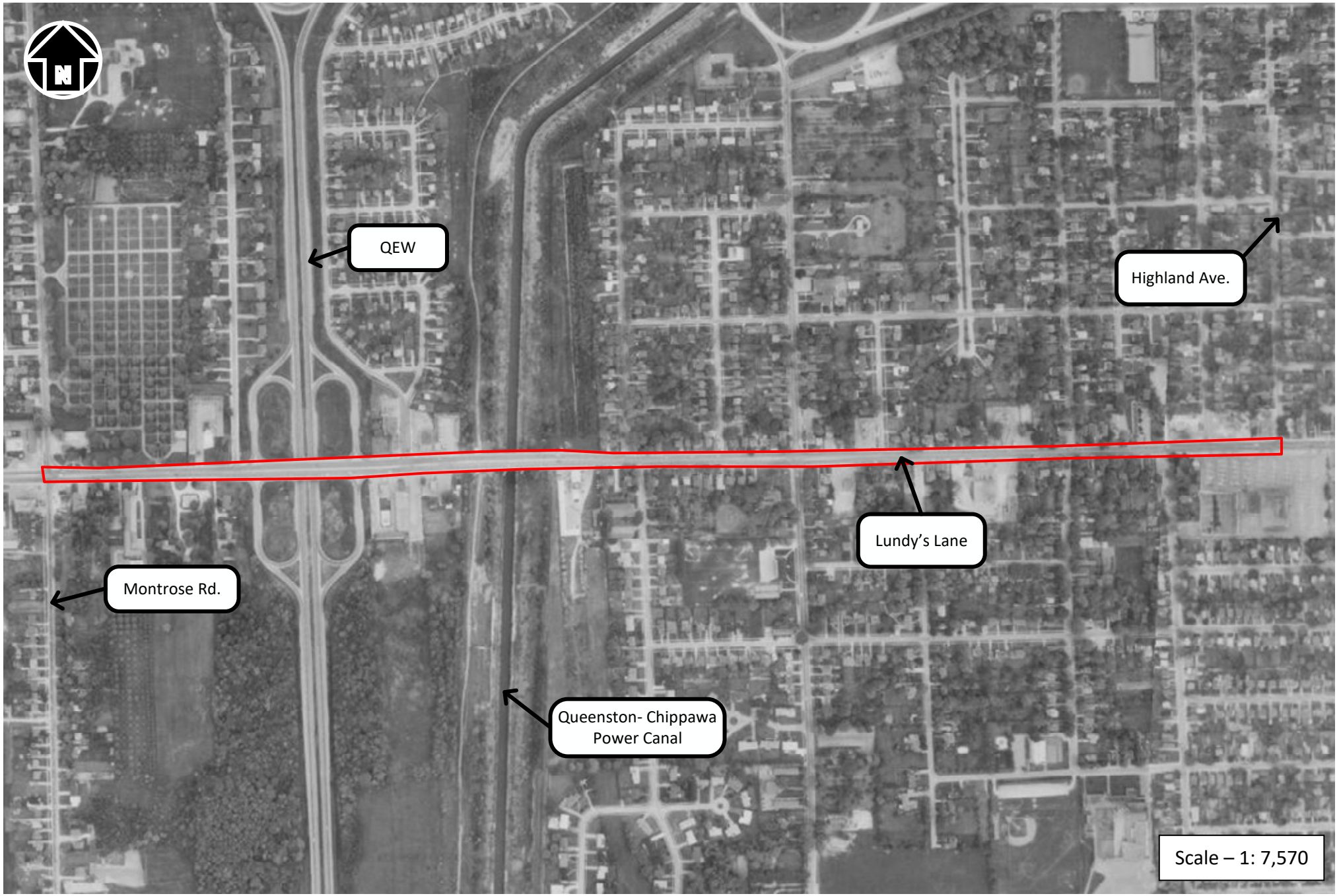
Aerial Photograph – 1954

Soil-Mat



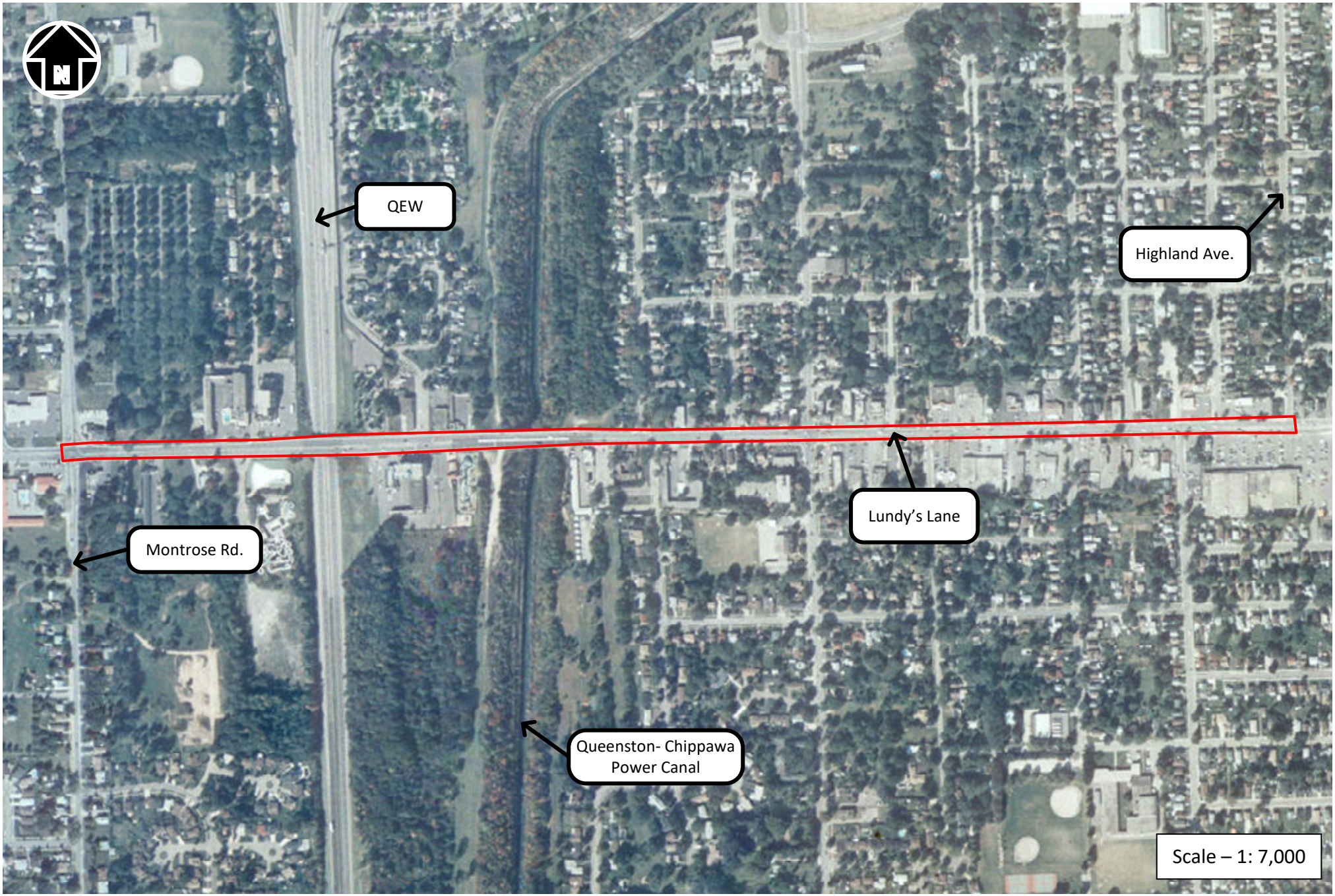
Aerial Photograph – 1968

Soil-Mat



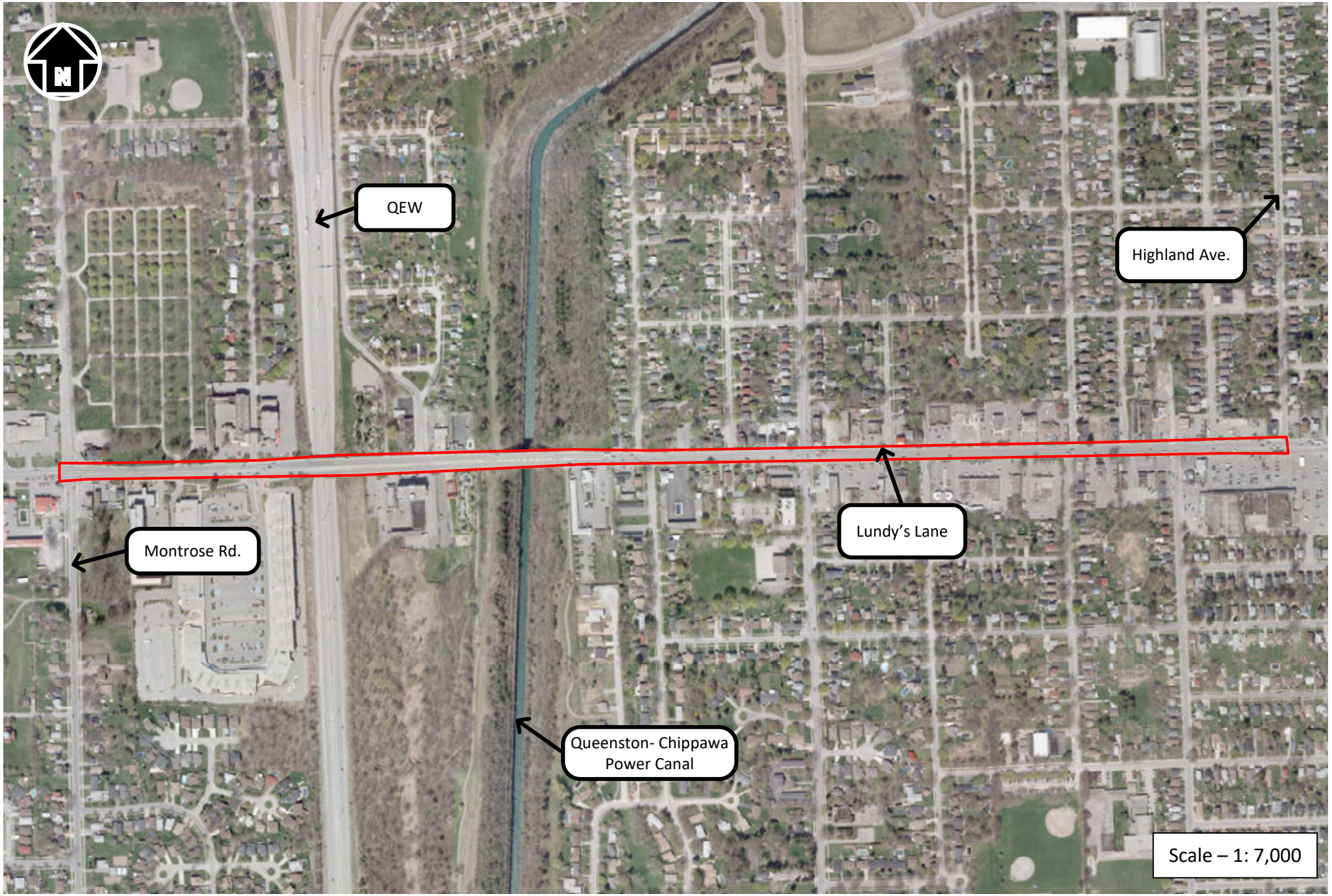
Aerial Photograph – 1995

Soil-Mat



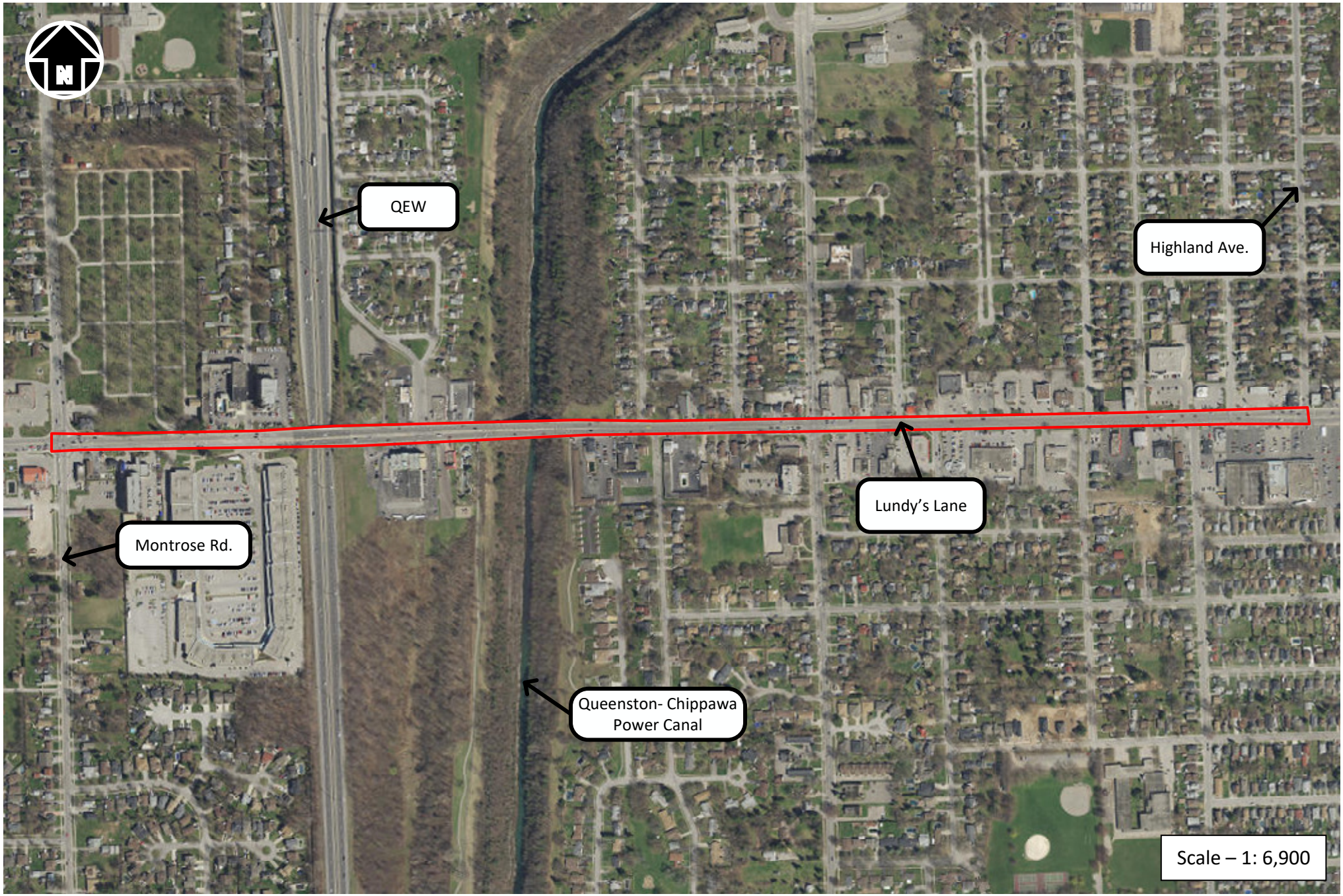
Aerial Photograph – 2006

Soil-Mat



Aerial Photograph – 2015

Soil-Mat



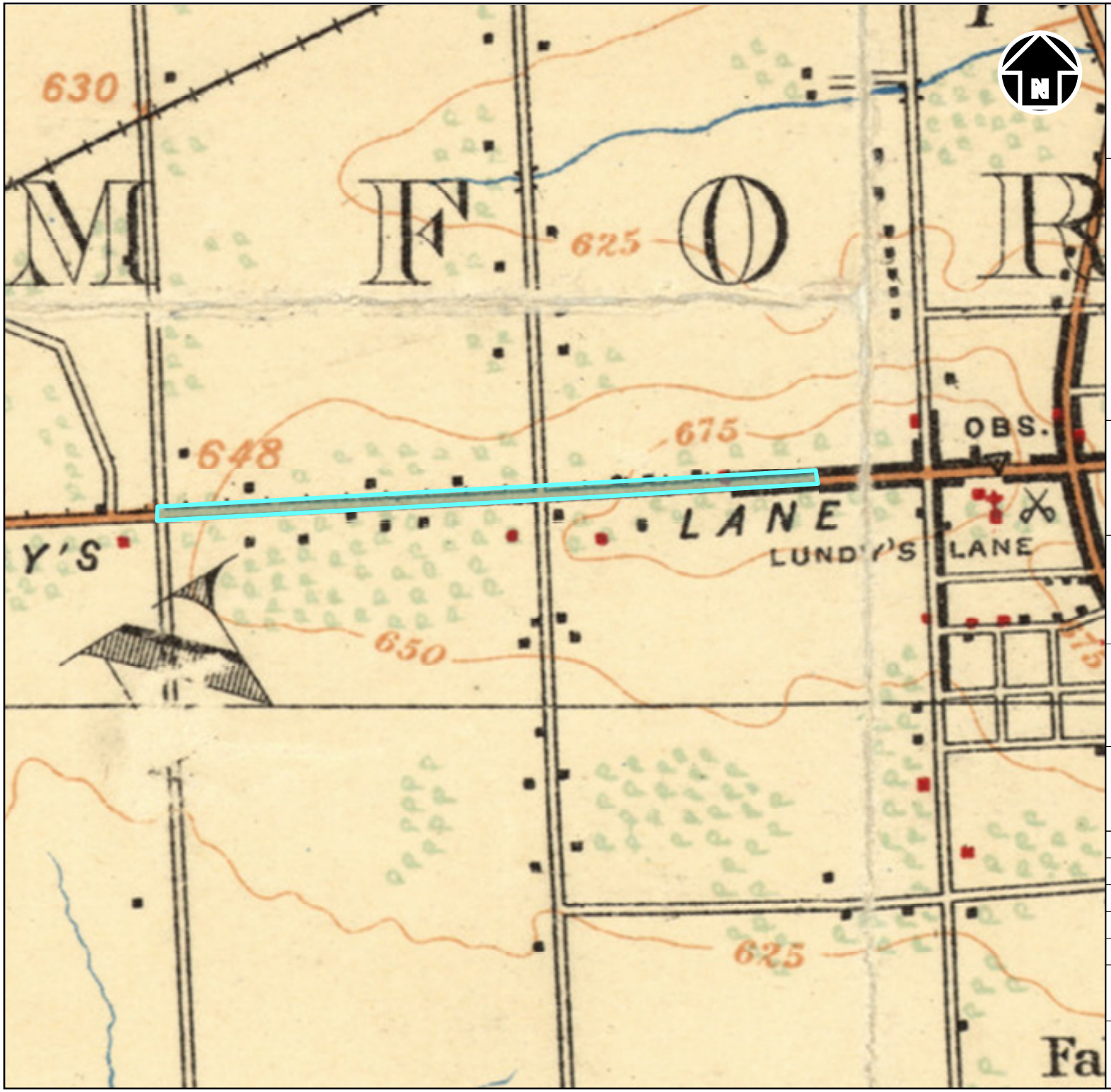
Aerial Photograph – 2021

Soil-Mat



Appendix 'F'

1. 1906 Topographic Map;
2. 1925 Topographic Map;
3. 1942 Topographic Map, and;
4. 1996 Topographic Map.



LEGEND

= Site Location

NOTES:

1. This drawing should be read in conjunction with Soil-Mat Engineers and Consultants Ltd. Report No.: SM 301760-E

2. Topographic Map of Ontario, Niagara Sheet 3

3. Base map provided by: "Intelligence Branch Department of Militia and Defence, 1906".

Soil-Mat
Engineers & Consultants Ltd.

CLIENT

URBAN & ENVIRONMENTAL MANAGEMENT INC.

PROJECT TITLE

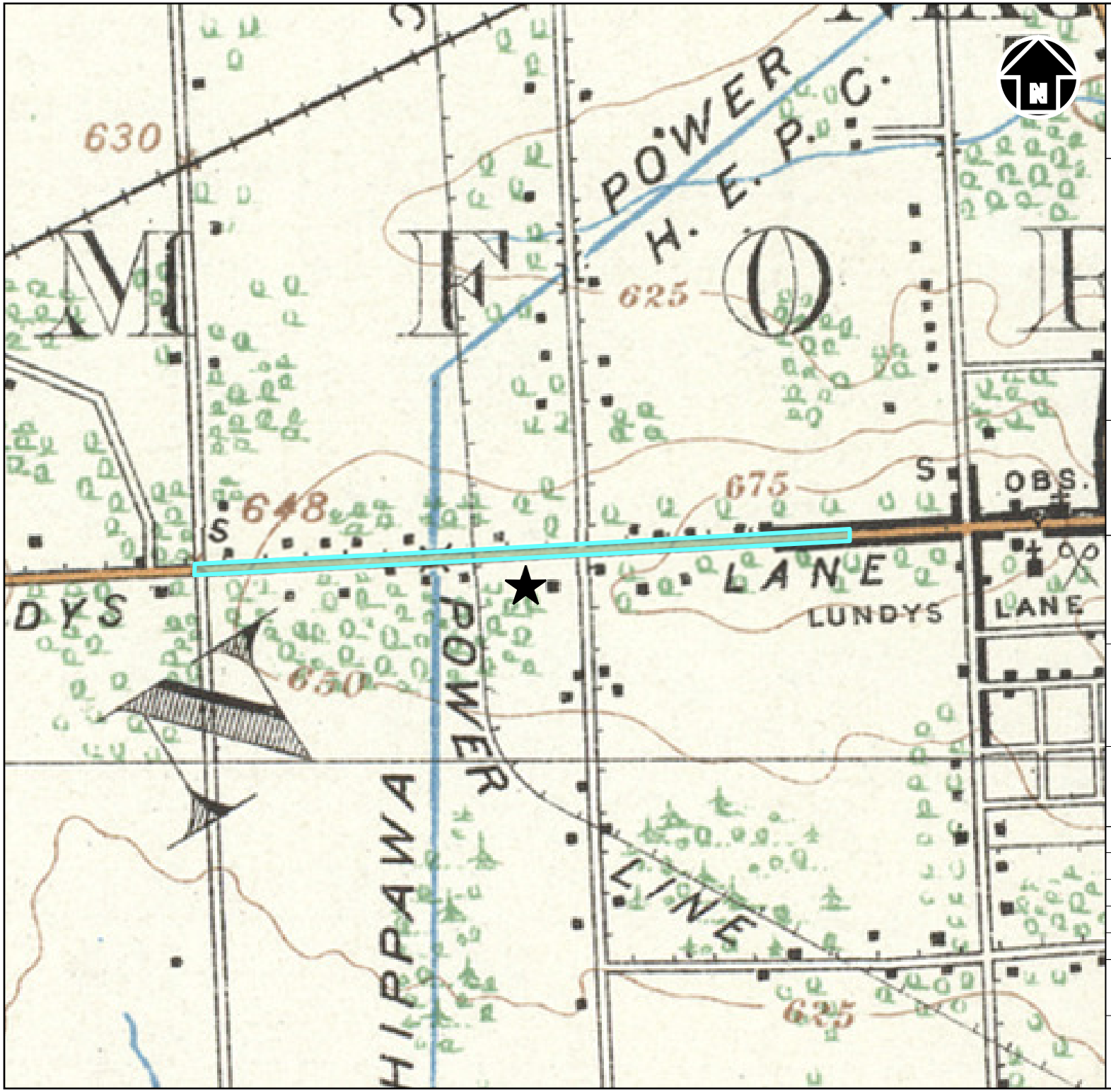
Assessment of Past Uses
Lundy's Lane
Niagara Falls, Ontario

DRAWING TITLE

Topographic Map 1906

PROJECT No.	SM 301760-E
SCALE	1: 63,360
DATE	November 2021
CHECKED	
DRAWN	MT
FILE NAME	301760 topos.vsdx

DRAWING No. 4A



LEGEND

= Site Location

NOTES:

1. This drawing should be read in conjunction with Soil-Mat Engineers and Consultants Ltd. Report No.: SM 301760-E

2. Topographic Map of Ontario, Niagara Sheet 3

3. Base map provided by: "Department of National Defence, 1925".

Soil-Mat
Engineers & Consultants Ltd.

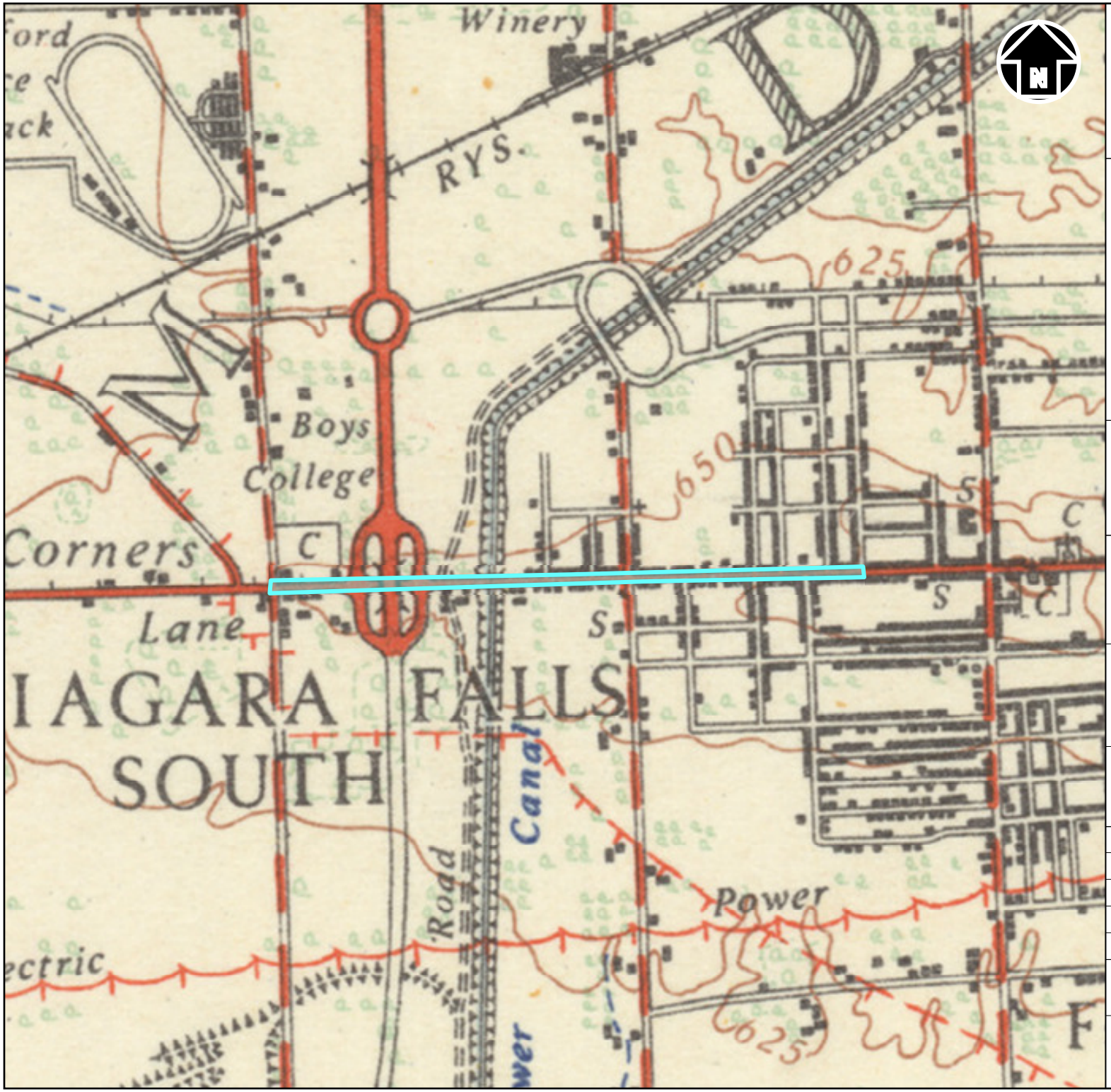
CLIENT
URBAN & ENVIRONMENTAL MANAGEMENT INC.

PROJECT TITLE
Assessment of Past Uses
Lundy's Lane
Niagara Falls, Ontario

DRAWING TITLE
Topographic Map 1925

PROJECT No.	SM 301760-E
SCALE	1: 63,360
DATE	November 2021
CHECKED	
DRAWN	MT
FILE NAME	301760 topos.vsdx

DRAWING No. 4B



LEGEND

= Site Location

NOTES:

1. This drawing should be read in conjunction with Soil-Mat Engineers and Consultants Ltd. Report No.: SM 301760-E

2. Topographic Map of Ontario, Niagara Sheet 30M/3

3. Base map provided by: "Geographical Section, General Staff, Department of National Defence, 1942".

Soil-Mat
Engineers & Consultants Ltd.

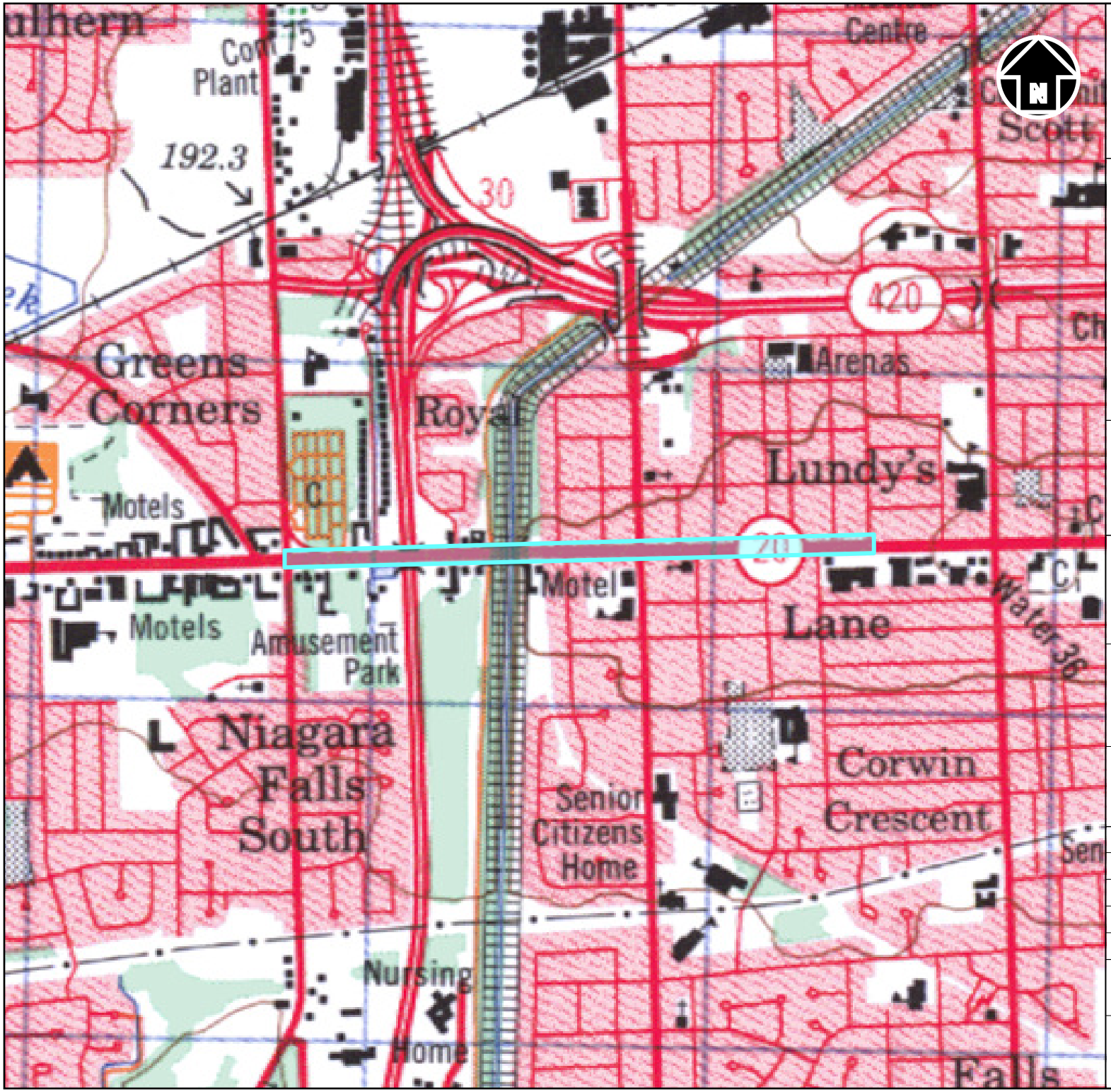
CLIENT
URBAN & ENVIRONMENTAL MANAGEMENT INC.

PROJECT TITLE
Assessment of Past Uses
Lundy's Lane
Niagara Falls, Ontario

DRAWING TITLE
Topographic Map 1942

PROJECT No.	SM 301760-E
SCALE	1: 63,360
DATE	November 2021
CHECKED	
DRAWN	MT
FILE NAME	301760 topos.vsdx

DRAWING No. 4C



LEGEND

= Site Location

NOTES:

1. This drawing should be read in conjunction with Soil-Mat Engineers and Consultants Ltd. Report No.: SM 301760-E

2. Topographic Map of Ontario, Niagara Sheet 30M/3 & 30M/6, Edition 7

3. Base map provided by: "©1996, Her Majesty The Queen in Right of Canada".

Soil-Mat
Engineers & Consultants Ltd.

CLIENT
URBAN & ENVIRONMENTAL MANAGEMENT INC.

PROJECT TITLE
Assessment of Past Uses
Lundy's Lane
Niagara Falls, Ontario

DRAWING TITLE
Topographic Map 1996

PROJECT No.	SM 301760-E
SCALE	1: 50, 000
DATE	November 2021
CHECKED	
DRAWN	MT
FILE NAME	301760 topos.vsdx

DRAWING No. 4D

Appendix 'G'

1. Summary Table of PCAs

Soil-Mat

LUNDY'S LANE, NIAGARA FALLS ONTARIO

PCA SUMMARY TABLE:

PCA #	PCA Location	MECP Potentially Contaminating Activity	Basis for PCA	Contaminants of Potential Concern	Media Potentially Impacted	APEC #	Rational
PCA 1	On-Site	30. Importation of Fill Material of Unknown Quality	• Potential for the importation of fill material of unknown quality during historical widening/improvements and infrastructure installations along the roadway	Metals, PHCs, & BTEX	Soil	APEC 1	On-Site
PCA 2a	Off-Site: 7600 Lundy's Lane	28. Gasoline and Associated Products Storage in Fixed Tanks	• The review of the Vernon's City Directory series and a fire insurance plan from 1965 revealed this property was formerly occupied by an automotive service station [inferred to be an automotive repair facility] with an UST	Metals, PHCs, BTEX, PAHs & VOCs	Soil	APEC 2	PCA located on adjoining property to the south
PCA 2b		10. Commercial Autobody Shops		Metals, PHCs, BTEX, & VOCs	Soil		
PCA 3	Off-Site: 7279 Lundy's Lane	37. Operation of Dry-Cleaning Equipment (where chemicals are used)	• The review of the Vernon City Directories series revealed a dry cleaner formerly operated on this property	VOCs	Soil	APEC 3	PCA located on adjoining property to the north
PCA 4	Off-Site: 7009 Lundy's Lane	10. Commercial Autobody Shops	• The review of the Vernon City Directories series and information recorded during the reconnaissance of the Site revealed a current automotive repair facility in operation on this property.	Metals, PHCs, BTEX, PAHs & VOCs	Soil	APEC 4	PCA located on adjoining property to the north
PCA 5a	Off-Site: 6910 Lundy's Lane	10. Commercial Autobody Shops	• Observations during the site reconnaissance revealed a current automotive repair facility in operation on this property.	Metals, PHCs, BTEX, PAHs & VOCs	Soil	APEC 5	PCA located on adjoining property to the south

PCA #	PCA Location	MECP Potentially Contaminating Activity	Basis for PCA	Contaminants of Potential Concern	Media Potentially Impacted	APEC #	Rational
PCA 5b		28. Gasoline and Associated Products Storage in Fixed Tanks	• The review of the Vernon City Directories series revealed a former service station [inferred to be an RFO] historically operated on this property.	Metals, PHCs, BTEX, & VOCs	Soil		
PCA 6	Off-Site: 6710 Lundy's Lane	37. Operation of Dry-Cleaning Equipment (where chemicals are used)	• The review of the Vernon's City Directory series and a fire insurance plan from 1965 revealed a dry cleaner formerly operated on this property	VOCs	Soil	APEC 6	PCA located on adjoining property to the south
PCA 7	Off-Site: 6738-6758 Unit 1	39. Paints Manufacturing, Processing and Bulk Storage	• The EcoLog ERIS report revealed a retail paint company formerly operated on this property	Metals, PHCs, BTEX & VOCs	Soil	APEC 7	PCA located on adjoining property to the south
PCA 8	Off-Site: 6644 Lundy's Lane	28. Gasoline and Associated Products Storage in Fixed Tanks	• Observations during the site reconnaissance revealed a gas station [a RFO] is located on this property.	Metals, PHCs, BTEX, & VOCs	Soil	APEC 8	PCA located on adjoining property to the south
PCA 9a	Off-Site: 6555 Lundy's Lane	28. Gasoline and Associated Products Storage in Fixed Tanks	• The review of the Vernon City Directories series, fire insurance plans from 1951 and 1965 and the T.S.S.A. database search revealed a gasoline service station [an RFO] formerly operated on this property.	Metals, PHCs, BTEX, & VOCs	Soil	APEC 9	PCA located on adjoining property to the north
PCA 9b		Other. Ontario Spill	• The EcoLog ERIS report revealed a 200-litre gasoline spill occurred on this property		Soil		

PCA #	PCA Location	MECP Potentially Contaminating Activity	Basis for PCA	Contaminants of Potential Concern	Media Potentially Impacted	APEC #	Rational
PCA 10a	Off-Site: 6499 Lundy's Lane	28. Gasoline and Associated Products Storage in Fixed Tanks	• The review of the Vernon City Directories series, a fire insurance plan from 1965, the EcoLog ERIS report and the Brownfield Site Registry revealed a gasoline service station formerly operated on this property. In addition, it is noted that there is residual VOC and/or PHC impacts in soil and groundwater as documented in the RSC filed for this property.	Metals, PHCs, BTEX, PAHs & VOCs	Soil	APEC 10	PCA located on adjoining property to the north
PCA 10b		10. Commercial Autobody Shops	• Observations during the Site reconnaissance revealed an automotive repair facility is currently in operation on the property.		Soil		
PCA 11	Off-Site: 6488 Lundy's Lane	37. Operation of Dry-Cleaning Equipment (where chemicals are used)	• A fire insurance plan from 1965 revealed a dry cleaner formerly operated on this property.	VOCs	Soil	APEC 11	PCA located on adjoining property to the south

Appendix 'H'

1. Qualifications of Assessor

COMPANY BACKGROUND

SOIL-MAT ENGINEERS & CONSULTANTS LTD. [SOIL-MAT ENGINEERS] is a Canadian Consulting Engineering firm owned by its senior staff. Over the past thirty years the principals of SOIL-MAT ENGINEERS have undertaken geotechnical investigations in all areas of Hamilton and surrounding area and are familiar with the distinct geology of the area and therefore well-versed with the various soil, bedrock and groundwater conditions. SOIL-MAT ENGINEERS has a staff of over twenty-five engineers and technical staff who specialize in geotechnical assignments, environmental assessments, hydrogeological investigations and construction quality control/assurance projects. The company commenced operation on June 15, 1992 and has undertaken over 5,000 projects since its inception. The firm and all professional staff are in good standing with Professional Engineers Ontario. The company has maintained a current Certificate of Authorisation since it was granted on April 28, 1992. The firm's office and laboratory facilities are located at 130 Lancing Drive in Hamilton, Ontario.

REPORT AUTHORS

Peter Markesic, B.Sc.
Environmental Project Manager

Mr. Markesic has over ten years of experience in conducting Phase I ESA research and Phase II ESA fieldwork, including soil and groundwater sampling. Mr. Markesic has also been a key project member on a number of Phase III Environmental Site Assessment projects, including the decommissioning of underground fuel storage tanks and both in-situ and ex-situ remediation projects.

Ian Shaw, P. Eng.
[Director/ Senior Professional]

Mr. Shaw has over fourteen years of experience in the geotechnical and geo-environmental fields. Mr. Shaw has supervised the geotechnical investigations for the replacement/rehabilitation of bridge/culvert structures located within the Haldimand County, numerous residential and industrial subdivision projects, slope stability assignments associated with Hamilton Conservation Authority and Conservation Halton requirements, and several high rise developments in Hamilton, Burlington, Oakville, Brantford, St. Catharines, and Niagara Falls. Mr. Shaw has also been involved in numerous hydrogeological investigations, primarily within the City of Hamilton, associated with the development of residential and commercial subdivision projects. Some of Mr. Shaw's projects have included the decommissioning of underground and above ground fuel oil storage tanks, the implementation of in-situ and ex-situ remediation programmes and numerous 'dig and dump' remediation projects.

Keith Gleadall, B.A., EA Dipl.

Vice-President [Senior Professional]

Mr. Gleadall has over fourteen years of experience in conducting Phase I, II and III Environmental Site Assessments and has successfully completed the requirements of the Associated Environmental Site Assessors of Canada and a Post Graduate Diploma in Environmental Site Assessment from Niagara College. Mr. Gleadall is responsible for undertaking numerous hydrogeological investigations, primarily within the City of Hamilton, associated with the development of residential and commercial subdivision projects, together with Phase I, II and III Environmental Site Assessments. Projects have included the decommissioning of underground and above ground fuel oil storage tanks, the implementation of in-situ and ex-situ remediation programmes, the decommissioning of a former dry cleaning facility and numerous 'dig and dump' remediation projects.

APPENDIX D.3

PRELIMINARY EXCESS SOIL CHARACTERIZATION (SOIL-MAT ENGINEERS & CONSULTANTS LTD.)

If technical reports are required in an alternative format for accessibility needs, please contact:

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SOIL-MAT ENGINEERS & CONSULTANTS LTD.

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PROJECT NO.: SM 301760-E June 8, 2022

URBAN & ENVIRONMENTAL MANAGEMENT INC.
4701 St. Clair Avenue, Suite 301
Niagara Falls, Ontario
L2E 3S9

Attention: Lucas Smith, EIT

PRELIMINARY EXCESS SOIL CHARACTERISATION
PROPOSED RECONSTRUCTION OF LUNDY'S LANE
NIAGARA FALLS, ONTARIO

Dear Mr. Smith,

Further to your authorisation, SOIL-MAT ENGINEERS & CONSULTANTS LTD. [SOIL-MAT ENGINEERS] have completed our fieldwork in connection with the above noted project. Our formal comments with respect to the off-site disposal/re-use of surplus material on an off-site property are summarised herein.

INTRODUCTION

We understand that a Municipal Class Environmental Assessment is being conducted for the proposed reconstruction and infrastructure improvements along Lundy's Lane between Highland Avenue to Regional Road 98 (Montrose Road) in Niagara Falls, Ontario [herein referred to as the 'Project Lands'].

As the proposed reconstruction is still quite preliminary, an estimated quantity of surplus soil is presently unknown. Nonetheless, soil sampling was completed in accordance with the scope outlined in the project RFP.

It is noted that the Ministry of Environment, Conservation and Parks [MOE] has recently created a new Regulation [Ontario Regulation 406/19] governing the management of excess soil generated during construction projects. Select portions of the noted Regulation commenced on January 1, 2021, and January 1, 2022, while the full extent of the noted Regulation comes into force in stages up to January 1, 2026. It is also noted that the Ministry has very recently released a notice of intent to 'pause' to the current stage of implementation of Regulation 406/19, targeting January 1, 2023 as the new date. However, it is recommended that efforts be made to continue to follow the requirements outlined within the Regulation.

As such, the purpose of this preliminary excess soil characterisation program is to secure representative samples of the overburden soil from within the project lands for submission for laboratory analytical testing and to provide interpretation of the test results with respect to the off-site disposal/re-use of surplus soil from the subject Site.

The scope of sampling and testing provided herein was conducted in general accordance with the procedures outlined under Regulation 406/19. As noted above, as the anticipated total volume of excess soil created is presently unknown, as such, the sampling frequency was based on the requirements outlined in the regions RFP.

PREVIOUS REPORT(S)

Our Office previously prepared an Assessment of Past Uses for the Project Lands [refer to SOIL-MAT ENGINEERS' Report No. SM 301760-E, dated June 7, 2022]. In addition, our office previously prepared a Geotechnical Investigation report [SM 301760-G, dated May 27, 2022] for the site, in which the sampling noted in this letter was completed simultaneously.

ASSESSMENT OF PAST USES

The information within the Assessment of Past Uses provides for the requirements of an assessment of past uses, which includes the following:

i. To develop a preliminary determination of the likelihood that one or more contaminants have affected soil or rock in a location where soil or crushed rock is to be excavated within the project lands;

ii. To identify any areas of potential environmental concern [APECs] within the project lands and to determine if any location where soil or crushed rock is to be excavated could have been affected by a potentially contaminating activity [PCA];

iii. To identify the contaminants of potential concern [COPCs] to determine the focus of the sampling and analysis plan, if any areas of potential environmental concern [APECs] are identified

Based on the results of the Assessment of Past Uses, the following areas of potential environmental concern [APECs] and associated contaminants of potential concern [COPCs] were identified:

Area of Potential Environmental Concern	Location of APEC on Phase One Property	Potentially Contaminating Activity	Locations of PCA	Contaminants of Potential Concern	Media Potentially Impacted
APEC 1	Entire Site	30. Importation of Fill Material of Unknown Quality	On-Site	Metals, PHCs, & BTEX	Soil

Area of Potential Environmental Concern	Location of APEC on Phase One Property	Potentially Contaminating Activity	Locations of PCA	Contaminants of Potential Concern	Media Potentially Impacted
APEC 2	Adjacent to the 7600 Lundy's Lane property	28. Gasoline and Associated Products Storage in Fixed Tanks	Off-Site	Metals, PHCs, BTEX, PAHs & VOCs	Soil
		10. Commercial Autobody Shops	Off-Site	Metals, PHCs, BTEX, & VOCs	Soil
APEC 3	Adjacent to the 7279 Lundy's Lane property	37. Operation of Dry-Cleaning Equipment (where chemicals are used)	Off-Site	VOCs	Soil
APEC 4	Adjacent to the 7009 Lundy's Lane property	10. Commercial Autobody Shops	Off-Site	Metals, PHCs, BTEX, PAHs & VOCs	Soil
APEC 5	Adjacent to the 6910 Lundy's Lane property	10. Commercial Autobody Shops	Off-Site	Metals, PHCs, BTEX, PAHs & VOCs	Soil
		28. Gasoline and Associated Products Storage in Fixed Tanks	Off-Site		Soil
APEC 6	Adjacent to the 6710 Lundy's Lane property	37. Operation of Dry-Cleaning Equipment (where chemicals are used)	Off-Site	VOCs	Soil
APEC 7	Adjacent to the 6738-6758 Unit 1 Lundy's Lane property	39. Paint Manufacturing, Processing and Bulk Storage	Off-Site	Metals, PHCs, BTEX & VOCs	Soil
APEC 8	Adjacent to the 6644 Lundy's Lane property	28. Gasoline and Associated Products Storage in Fixed Tanks	Off-Site	Metals, PHCs, BTEX, & VOCs	Soil
APEC 9	Adjacent to the 6555 Lundy's Lane property	28. Gasoline and Associated Products Storage in Fixed Tanks	Off-Site	Metals, PHCs, BTEX, & VOCs	Soil
		Other. Ontario Spill	Off-Site	Metals, PHCs, BTEX, & VOCs	Soil
APEC 10	Adjacent to the 6499 Lundy's Lane property	28. Gasoline and Associated Products Storage in Fixed Tanks	Off-Site	Metals, PHCs, BTEX, PAHs & VOCs	Soil
		10. Commercial Autobody Shops	Off-Site		Soil
APEC 11	Adjacent to the 6488 Lundy's Lane property	37. Operation of Dry-Cleaning Equipment (where chemicals are used)	Off-Site	VOCs	Soil

Notes: PHCs = Petroleum Hydrocarbons, VOCs = Volatile Organic Compounds
BTEX = Benzene, Toluene, Ethylbenzene and Xylene

SAMPLING AND ANALYSIS PLAN

Based on the above APU discussion, and on the requirements set out by the RFP the following Sampling and Analysis Plan [SAP] was established:

- Advance 18 Boreholes within the Project Lands to depths of up to approximately 5 to 6 metres, or to the total depth of construction;
- Collect a total of thirty-six [36] soil samples of both fill material and native material, two [2] samples per borehole location, for laboratory analytical testing for the noted contaminants of potential concern [COPCs] including a standard panel of metal and inorganic parameters, petroleum hydrocarbons [PHCs] and benzene, toluene, ethylbenzene, and xylene mixture [BTEX]. It is noted, that at the request of the Regions RFP, samples were also submitted to be tested for polycyclic aromatic hydrocarbons [PAHs]. Additionally, where boreholes were located within proximity of an APEC where volatile organic compounds [VOCs] were a Contaminant of Potential Concern, the sample was additionally submitted for VOCs ;
- Prepare a preliminary excess soil characterisation report per the requirements of Regulation 406/19 to summarise the findings and recommendations of the SAP

SITE VISIT AND SOIL SAMPLING

Given the above, a representative of SOIL-MAT ENGINEERS visited the site between January 24, 2022 and February 1, 2022 and recovered thirty-six [36] discrete samples of the subsurface soils within the project lands, in conjunction with a geotechnical investigation conducted by our Office [refer to SOIL-MAT ENGINEERS Report Nos. SM 301760-G, dated May 27, 2022].

The borehole locations are illustrated in the attached Drawing Nos. 1 through 6, Borehole Location Plans. The boreholes were advanced using solid stem auger equipment under the direction and supervision of a staff member of SOIL-MAT ENGINEERS, to termination at depths of approximately 4.9 to 6.7 metres below the existing ground surface. Upon completion of excavations, the boreholes were backfilled in accordance with O. Reg. 903.

The subsurface soils in the boreholes generally consisted of silty clay/clayey silt fill, silty sand/sandy silt fill, and native sandy silt/silty sand soils. Details of the conditions encountered in the boreholes are presented in the Borehole Logs attached to this report for reference.

Soil samples from the boreholes were examined in the field for visual and olfactory evidence of potential impacts such as unusual staining and/or odours, etc. The soil samples were sealed in pre-cleaned wide mouth, amber glass sample jars and/or vials pre-charged with methanol preservative as supplied by the laboratory. The samples were stored and transported in a cooler and kept under ice packs to minimise potential volatilisation of select parameters. New disposable sampling gloves were used for the collection of each soil sample with care given not to make contact with the samples and gloves. Dedicated sample retrieval equipment, including a stainless-steel split spoon, was used to retrieve each sample before depositing it directly into the lab supplied sample jar.

LABORATORY ANALYTICAL TESTING

The secured soil samples were submitted to AGAT Laboratories [AGAT], [an accredited Canadian Environmental Laboratory] for bulk laboratory analytical testing for metals and inorganics, petroleum hydrocarbons [PHCs] and benzene, toluene, ethylbenzene, and xylene mixture [BTEX], and volatile organic compounds [VOCs].

The results of this laboratory testing are presented in the attached AGAT Certificate of Analysis which has been appended to the end of this report.

The following table summarises the parameters for which each sample was submitted. The samples were submitted for Metals and Inorganics [M&I], Petroleum Hydrocarbons [PHCs], Polycyclic Aromatic Hydrocarbons [PAHs], with Volatile Organic Compounds [VOCs] tested where warranted.

Summary of Sample Analyses

Sample ID	Soil Type	M/I	PHCs & BTEX	PAHs	VOCs
BH1 SS1	Silty Sand/Sandy Silt Fill	✓	✓	✓	✓
BH1 SS3	Sandy Silt/Silt	✓	✓	✓	✓
BH2 SS1	Clayey Silt/Silty Clay Fill	✓	✓	✓	
BH2 SS2	Fill and Native Sandy Silt/Silt	✓	✓	✓	
BH3 SS1	Silty Sand/Sandy Silt Fill	✓	✓	✓	
BH3 SS4	Sandy Silt/Silt	✓	✓	✓	
BH4 SS1	Silty Sand/Sandy Silt Fill	✓	✓	✓	✓
BH4 SS3	Silty Sand/Sandy Silt Fill	✓	✓	✓	✓

Sample ID	Soil Type	M/I	PHCs & BTEX	PAHs	VOCs
BH5 SS1	Silty Sand/Sandy Silt Fill	✓	✓	✓	✓
BH5 SS4	Sandy Silt/Silt	✓	✓	✓	✓
BH6 SS1	Silty Sand/Sandy Silt Fill	✓	✓	✓	
BH6 SS2	Silty Sand/Sandy Silt Fill	✓	✓	✓	
BH7 SS2	Silty Sand/Sandy Silt Fill	✓	✓	✓	
BH7 SS4	Silty Sand/Sandy Silt Fill & Native	✓	✓	✓	
BH8 SS1	Silty Sand/Sandy Silt Fill	✓	✓	✓	✓
BH8 SS4	Sandy Silt/Silt	✓	✓	✓	✓
BH9 SS1	Sandy Silt/Silt	✓	✓	✓	
BH9 SS2	Sandy Silt/Silt	✓	✓	✓	
BH10 SS1	Silty Sand/Sandy Silt Fill	✓	✓	✓	✓
BH10 SS3	Sandy Silt/Silt	✓	✓	✓	✓
BH11 SS1	Silty Sand/Sandy Silt Fill	✓	✓	✓	
BH11 SS4	Sandy Silt/Silt	✓	✓	✓	

Sample ID	Soil Type	M/I	PHCs & BTEX	PAHs	VOCs
BH12 SS1	Silty Sand/Sandy Silt Fill	✓	✓	✓	✓
BH12 SS2	Clayey Silt/Silty Clay Fill	✓	✓	✓	✓
BH13 SS1	Silty Sand/Sandy Silt Fill	✓	✓	✓	✓
BH13 SS3	Sandy Silt/Silt	✓	✓	✓	✓
BH14 SS1	Silty Sand/Sandy Silt Fill	✓	✓	✓	✓
BH14 SS2	Sandy Silt/Silt	✓	✓	✓	✓
BH15 SS1	Silty Sand/Sandy Silt Fill	✓	✓	✓	
BH15 SS2	Silty Sand/Sandy Silt Fill and Native	✓	✓	✓	
BH16 SS1	Silty Sand/Sandy Silt Fill	✓	✓	✓	✓
BH16 SS3	Sandy Silt/Silt	✓	✓	✓	✓
BH17 SS1	Silty Sand/Sandy Silt Fill and Native	✓	✓	✓	✓
BH17 SS4	Sandy Silt/Silt	✓	✓	✓	✓
BH18 SS1	Sandy Silt/Silt	✓	✓	✓	✓
BH18 SS4	Sandy Silt/Silt	✓	✓	✓	✓

The laboratory test results received were compared to the applicable standard from the Soil, Ground Water and Sediment Standards for Use under Part XV.1 of the *Environmental Protection Act*, as follows:

- **TABLE 1**: Full Depth Excess Soil Quality Standards for a Residential/ Parkland/ Institutional property use, [RPI], as well as for an Industrial/ Commercial/ Community [ICC] property use.
- **TABLE 2.1**: Full Depth Excess Soil Quality Standards in a Potable Ground Water Condition for a Residential/Parkland/Institutional property use, [RPI], as well as for an Industrial/Commercial/Community [ICC] property use.
- **TABLE 3.1**: Full Depth Excess Soil Standards in a Non-Potable Ground Water Condition for a Residential/Parkland/Institutional property use, [RPI], as well as for an Industrial/Commercial/Community [ICC] property use.

The analytical results received from the laboratory have been summarised as follows:

TABLE C

SUMMARY OF ANALYTICAL RESULTS

Ontario Regulation 406/19 Exceedances					
Sample ID	**Table 1 RPI/ICC**	**Table 2.1 RPI**	**Table 3.1 RPI**	**Table 2.1 ICC**	**Table 3.1 ICC**
BH1 SS1	EC, SAR	EC, SAR	EC, SAR	EC, SAR	EC, SAR
BH1 SS3	EC, SAR	EC, SAR	EC, SAR	EC, SAR	EC, SAR
BH2 SS1	EC, SAR	EC, SAR	EC, SAR	EC, SAR	EC, SAR
BH2 SS2	EC, SAR	EC, SAR	EC, SAR	EC, SAR	EC, SAR
BH3 SS1	EC, SAR	EC, SAR	EC, SAR	EC	EC
BH3 SS4	EC, SAR	EC, SAR	EC, SAR	EC, SAR	EC, SAR
BH4 SS1	EC, SAR	EC, SAR	EC, SAR	EC, SAR	EC, SAR
BH4 SS3	EC, SAR	EC, SAR	EC, SAR	SAR	SAR
BH5 SS1	EC, SAR	EC, SAR	EC, SAR	EC, SAR	EC, SAR
BH5 SS4	EC, SAR	EC, SAR	EC, SAR	EC, SAR	EC, SAR
BH6 SS1	EC, SAR	EC, SAR	EC, SAR	SAR	SAR
BH6 SS2	EC, SAR	EC, SAR	EC, SAR	SAR	SAR
BH7 SS2	EC, SAR	EC, SAR	EC, SAR	SAR	SAR
BH7 SS4	EC, SAR	EC, SAR	EC, SAR	EC, SAR	EC, SAR
BH8 SS1	EC, SAR	EC, SAR	EC, SAR	SAR	SAR
BH8 SS4	EC, SAR	EC, SAR	EC, SAR	SAR	SAR
BH9 SS1	EC, SAR	EC, SAR	EC, SAR	✓	✓
BH9 SS2	EC, SAR	EC, SAR	EC, SAR	SAR	SAR
BH10 SS1	EC, SAR	EC, SAR	EC, SAR	✓	✓
BH10 SS3	EC, SAR	EC, SAR	EC, SAR	SAR	SAR
BH11 SS1	SAR	SAR	SAR	SAR	SAR
BH11 SS4	SAR	SAR	SAR	✓	✓
BH12 SS1	EC, SAR	EC, SAR	EC, SAR	SAR	SAR
BH12 SS2	EC, SAR	EC, SAR	EC, SAR	EC	EC

Ontario Regulation 406/19 Exceedances					
Sample ID	**Table 1 RPI/ICC**	**Table 2.1 RPI**	**Table 3.1 RPI**	**Table 2.1 ICC**	**Table 3.1 ICC**
BH13 SS1	EC, SAR	EC, SAR	EC, SAR	EC, SAR	EC, SAR
BH13 SS3	EC, SAR	EC, SAR	EC, SAR	EC, SAR	EC, SAR
BH14 SS1	EC, SAR	SAR	SAR	SAR	SAR
BH14 SS2	Tetrachloroethylene, SAR	Tetrachloroethylene, SAR	Tetrachloroethylene, SAR	Tetrachloroethylene, SAR	Tetrachloroethylene, SAR
BH15 SS1	EC, SAR	EC, SAR	EC, SAR	EC, SAR	EC, SAR
BH15 SS2	EC, SAR	EC, SAR	EC, SAR	EC, SAR	EC, SAR
BH16 SS1	SAR	SAR	SAR	SAR	SAR
BH16 SS3	EC, SAR	EC, SAR	EC, SAR	✓	✓
BH17 SS1	EC, SAR	EC, SAR	EC, SAR	EC, SAR	EC, SAR
BH17 SS4	SAR	SAR	SAR	SAR	SAR
BH18 SS1	SAR	SAR	SAR	✓	✓
BH18 SS4	SAR	SAR	SAR	✓	✓

Notes:
'✓ ' denotes sample with no exceedances, EC = Electric Conductivity, SAR = Sodium Absorption Ratio

Based on SOIL-MAT ENGINEERS' field observations and the laboratory analytical test results from AGAT, SOIL-MAT ENGINEERS offer the following comments:

1. The submitted samples were reported to meet the O. Reg. 406/19 [as amended] Table 1 [RPI/ICC] Standards for the parameters tested with the exception of EC and/or SAR in the majority of samples, as outlined above. In addition, Sample BH14 SS2 was also noted to exceed the Standard for Tetrachloroethylene.
2. The submitted samples were reported to meet the O. Reg. 406/19 [as amended] Table 2.1 and 3.1 [RPI] Standards for the parameters tested with the exception of EC and/or SAR in select recovered samples as described above, as well as Sample BH14 SS2 which was also noted to exceed the Standard for Tetrachloroethylene.
3. The submitted samples were reported to meet the O. Reg. 406/19 [as amended] Table 2.1 and 3.1 [ICC] Standards for the parameters tested with the exception of EC and/or SAR in select recovered samples as described above, as well as Sample BH14 SS2 which was also noted to exceed the Standard for Tetrachloroethylene.
4. It is noted that elevated levels of EC and SAR is typically associated with the effects of the application of de-icing salt on parking areas and roadways. These are essentially aesthetic parameters that are non-hazardous to human or animal health, rather they tend to render the soil environment less supportive of plant growth and more corrosive to buried iron pipe and metal appurtenances.
5. The samples secured for analytical testing are believed to be representative of the soil conditions at the borehole locations only. Minor evidence of potential hydrocarbon impact, i.e., staining or odours, were observed during the fieldwork, with the suspected samples submitted and testing accordingly. If any significant changes are noted, i.e., odours, staining etc., SOIL-MAT ENGINEERS should be contacted to reassess the environmental characteristics of the soil.

ENVIRONMENTAL CONSIDERATIONS FOR SOIL REUSE

Given the results of the laboratory analytical testing, the following disposal/re-use options are available under Ontario Regulation 406/19.

- As the majority of the tested material is reported to meet the O. Reg. 406/19 Table 1, 2.1 and 3.1 [RPI and ICC] Standards for the parameters tested with the exception of EC and/or SAR only, with the exception of Borehole No. 14 which was also found to exceed the standard for Tetrachloroethylene, surplus material from Borehole No. 13 westward, and Borehole No. 15 eastward, may reasonably be accepted at any off-site RPI or ICC property including those properties subject to a Record of Site Condition [RSC] or MOE Environmental Compliance Approval [ECA] for a beneficial purpose [i.e., backfill, grading fill, etc.], provided the MOE's 'salt impacted' soil requirements are met, as described below, subject to approval of the receiving property owner/qualified person [QP] on their behalf.

- With respect to the soil with elevated levels of EC and/or SAR above the Table 1, 2.1 and 3.1 Standards, Section D of the MOE document entitled 'Rules for Soil Management and Excess Soil Quality Standards' dated December 8, 2020' outlines the following requirements for re-use of 'salt impacted' soil, as described below:

  1. Excess soil quality standards for chemicals (e.g., sodium adsorption ratio and electrical conductivity) in soil resulting solely from the use of a substance for the safety of vehicular or pedestrian traffic applied under conditions of snow or ice or both, are deemed to be met if the following criteria are met:

  i. The excess soil is finally placed at one of the following locations:

  a) where it is reasonable to expect that the soil will be affected by the same chemicals as a result of continued application of a substance for the safety of vehicular or pedestrian traffic under conditions of snow or ice;

  b) at an industrial or commercial property use and to which non-potable standards would be applicable; or

  c) at least 1.5 metres below the surface of the soil.

  ii. The excess soil is not finally placed at any of the following locations:

  a) within 30 metres of a waterbody;

  b) within 100 metres of a potable water well or area with an intended property use that may require a potable water well; or,

  c) a location that will be used for growing crops or pasturing livestock unless the excess soil is placed 1.5 metres or greater below the soil surface.

  iii. The project leader or operator of the project area [project lands] has informed the reuse site owner or operator that the excess soil is from a location that may be expected to contain the chemical and, if sampling and analysis has been conducted in accordance with the regulation, the project leader or operator of the project area has provided relevant sampling results to the reuse site owner or operator, including the soil characterization report if prepared, and identified and communicated any potential risks to surface water and ground water to the reuse site owner or operator.

- Further sampling in the vicinity of Borehole No. 14 may be conducted to further delineate or confirm the elevated levels of Tetrachloroethylene, if required.
- Depending on anticipated volumes, and the requirements of the receiving site, additional sampling in the APECs outlined above or to meet sampling frequency based on volume may be required.
- Surplus soil may be reused on site. Given the relatively limited stretch of Lundy's Lane conservatively indicated to have elevated levels of Tetrachloroethylene based on the available data, it may also be feasible to selectively reuse this material on site as trench backfill, to facilitate convenient off-site disposal of the remaining material, noted to meet Table 1 [RPI/ICC] with the exception of EC and/or SAR, as noted above.

TCLP Sampling

As noted above, sample BH14 SS2 had reported elevated levels of Tetrachloroethylene above the Table 1, Table 2, Table 2.1, Table 3, and Table 3.1 [RPI/ICC] Standards. As such, an additional sample [BH14 SS1] was submitted for testing for Polychlorinated Biphenyls [PCBs], TCLP Metals, VOCs to provide comment with respect to off-site disposal of this material at a registered waste facility. General visual and olfactory observations of the subject material did not reveal any obvious indicators of the presence of PHCs, and the results of the APU did not indicate an APEC for PAHs. Additionally, PAHs were tested as part of the original sampling with no exceedances. As such, the material was not subjected to Benzo(a)pyrene TCLP testing.

The results of this testing indicate that the sampled material to be non-hazardous solid waste that may reasonably be received at an appropriate MOE licensed waste receiver.

GENERAL COMMENTS

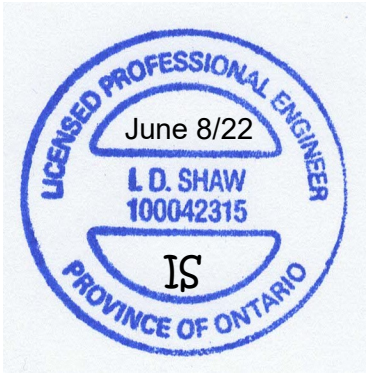
The material in this report reflects SOIL-MAT ENGINEERS' best judgement in light of the information available at the time of preparation. The subsurface descriptions and borehole information are intended to describe conditions at the borehole locations only. Any use which a third party makes of this report, or any reliance on or decisions to be made based on it, are the responsibility of such third parties. SOIL-MAT ENGINEERS accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report.

We trust this is satisfactory for your purposes. Please feel free to contact our Office if you have any questions, or we may be of further service to you.

Yours very truly,
SOIL-MAT ENGINEERS & CONSULTANTS LTD.

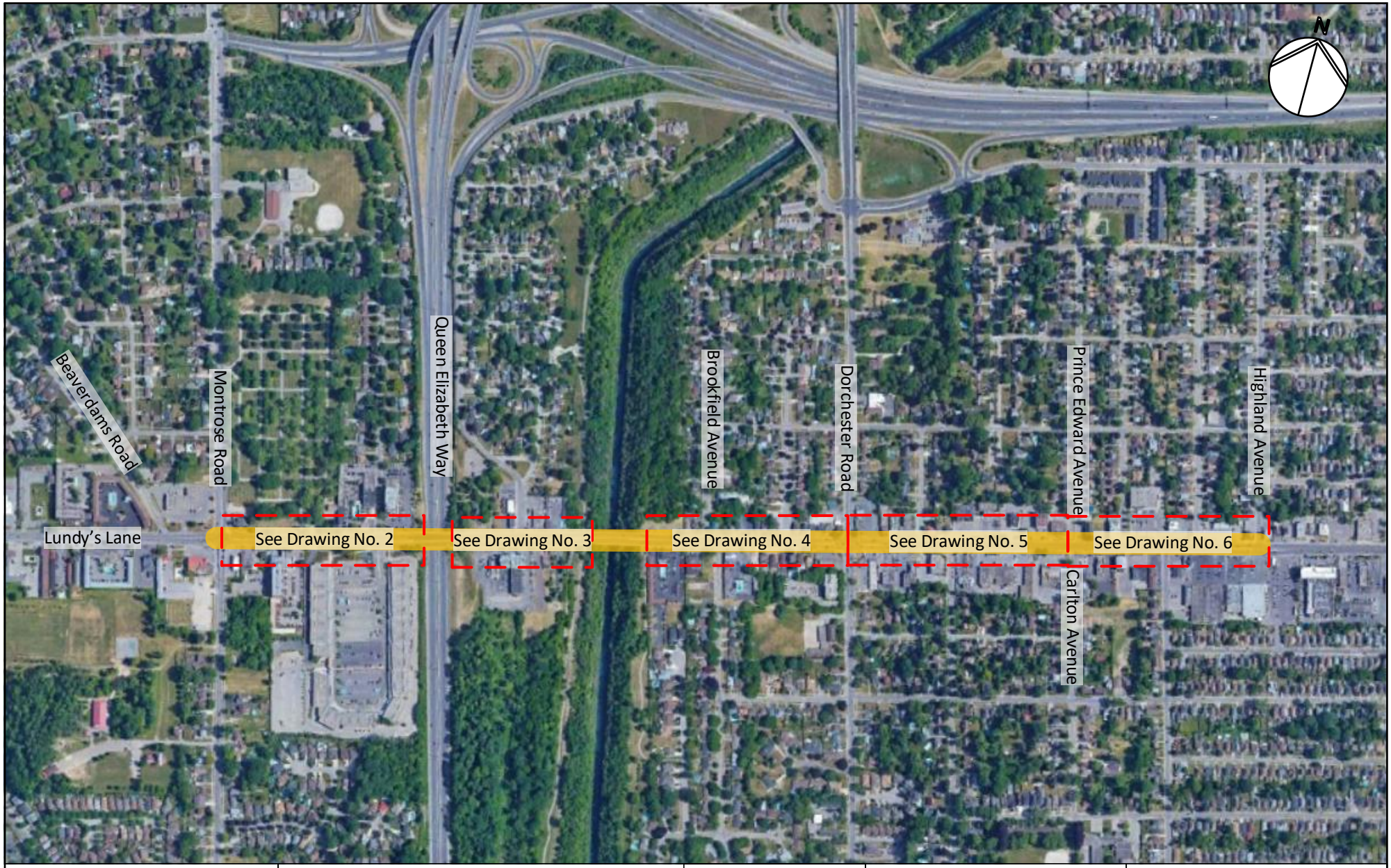
Adam Roemmele, P. Eng.
Project Engineer

Ian Shaw, P.Eng., QP_{ESA}
Senior Engineer



Enclosures: Drawing Nos. 1 through 6, Borehole Location Plans [6 pages]
Borehole Logs – BH1 to BH18 [18 pages]
AGAT Certificate of Analysis 22T858476 [38 pages]
AGAT Certificate of Analysis 22T860034 [25 pages]

Distribution: Urban and Environmental Management Inc. [1, pdf]



Soil-Mat
Engineers & Consultants Ltd.

CLIENT
Urban & Environmental Management Inc.

LEGEND

Approximate Project Area

NOTES

1. This map should be read in conjunction with Soil-Mat Engineers and Consultants Ltd. Report No.: SM 301760-G.
2. Basemap retrieved from Google Earth.

Geotechnical Investigation
Lundy's Lane
Niagara Falls, Ontario

Project Area

Project No. SM 301760-G

Date: September 2021

Drawn: AR | Checked: KR

301760 Drawing No. 1 – Project Area vsdx

Drawing No. 1



LEGEND

Borehole Location

BH#

NOTES

1. This drawing should be read in conjunction with Soil-Mat Engineers & Consultants Ltd. Report No. SM 301760-G.

2. Borehole locations are approximate.

SOIL-MAT

ENGINEERS & CONSULTANTS LTD.

Geotechnical Investigation
Proposed Reconstruction of
Lundy's Lane
Niagara Falls, Ontario

Borehole Location Plan

Project No. SM 301760-G

Date: September, 2021

Drawn: AR	Checked: KR

SM 301760-G Borehole Location Plan

Drawing No. 2



LEGEND

Borehole Location

BH#

NOTES

1. This drawing should be read in conjunction with Soil-Mat Engineers & Consultants Ltd. Report No. SM 301760-G.

2. Borehole locations are approximate.

SOIL-MAT

ENGINEERS & CONSULTANTS LTD.

Geotechnical Investigation
Proposed Reconstruction of
Lundy's Lane
Niagara Falls, Ontario

Borehole Location Plan

Project No. SM 301760-G

Date: September, 2021

Drawn: AR | Checked: KR

SM 301760-G Borehole Location Plan

Drawing No. 3



LEGEND

BH# Borehole Location

NOTES

1. This drawing should be read in conjunction with Soil-Mat Engineers & Consultants Ltd. Report No. SM 301760-G.

2. Borehole locations are approximate.

SOIL-MAT

ENGINEERS & CONSULTANTS LTD.

Geotechnical Investigation
Proposed Reconstruction of
Lundy's Lane
Niagara Falls, Ontario

Borehole Location Plan

Project No. SM 301760-G

Date: September, 2021

Drawn: AR	Checked: KR

SM 301760-G Borehole Location Plan

Drawing No. 4



LEGEND

Borehole Location

BH#

NOTES

1. This drawing should be read in conjunction with Soil-Mat Engineers & Consultants Ltd. Report No. SM 301760-G.

2. Borehole locations are approximate.

SOIL-MAT

ENGINEERS & CONSULTANTS LTD.

Geotechnical Investigation
Proposed Reconstruction of
Lundy's Lane
Niagara Falls, Ontario

Borehole Location Plan

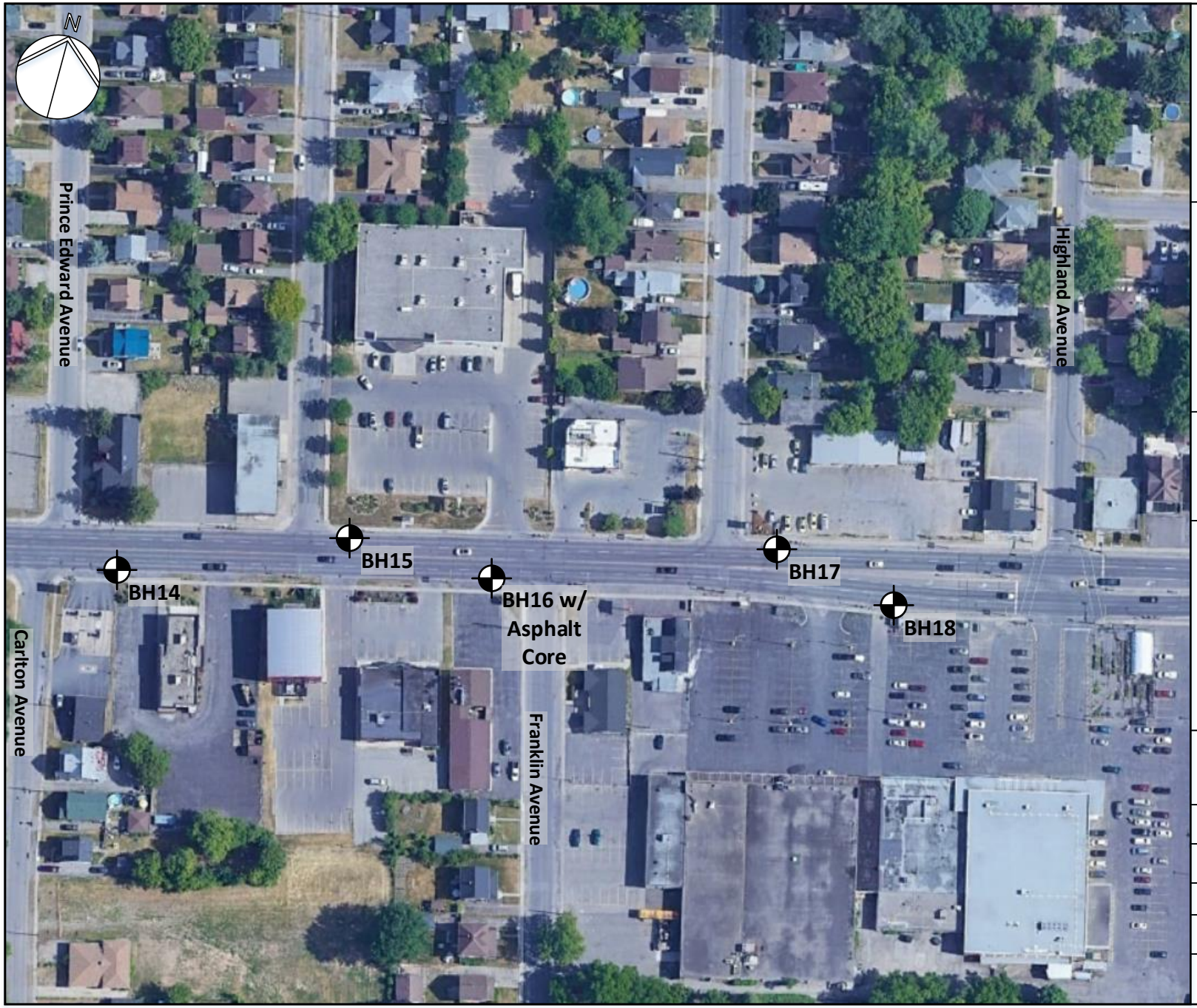
Project No. SM 301760-G

Date: September, 2021

Drawn: AR	Checked: KR

SM 301760-G Borehole Location Plan

Drawing No. 5



LEGEND

Borehole Location

BH#

NOTES

1. This drawing should be read in conjunction with Soil-Mat Engineers & Consultants Ltd. Report No. SM 301760-G.

2. Borehole locations are approximate.

SOIL-MAT

ENGINEERS & CONSULTANTS LTD.

Geotechnical Investigation
Proposed Reconstruction of
Lundy's Lane
Niagara Falls, Ontario

Borehole Location Plan

Project No. SM 301760-G

Date: September, 2021

Drawn: AR	Checked: KR

SM 301760-G Borehole Location Plan

Drawing No. 6

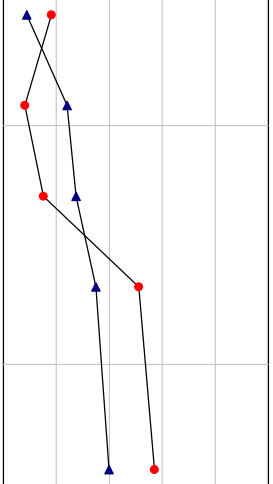
Log of Borehole No. 01

Project No: SM 301760-G
Project: Proposed Road Reconstruction
Location: Lundy's Lane, Niagara Falls
Client: Urban & Environmental Management Inc.

Project Manager: Adam Roemmele, P. Eng.
Borehole Location: See Drawing No. 2
UTM Coordinates - N: 4772418
E: 652810

Depth (ft / m)	Elevation (m)	Description	Well Data	SAMPLE Type	Number	Blow Counts	Blows/300mm	Recovery	PP (kgf/cm2)	U.Wt.(kN/m3)
0 / 0	0.00	Ground Surface								
0–2 / 0	0.00 to -0.65	**Pavement Structure** Approximately 200 millimetres of asphaltic concrete over 450 millimetres of compact granular base.								
2–5 / 1	-0.65 to -1.52	**Silty Sand/Sandy Silt Fill** Brown, trace clay and gravel, occasional black wood inclusions, compact.		SS	1	5,9,9,8,9	18			
5–7 / 1–2	-1.52 to -5.18	**Sand Silt/Silt** Brown, trace gravel,trace to some clay, reworked in the upper levels, loose to very dense.		SS	2	3,4,4,6	8			
7–10 / 2–3				SS	3	6,7,8,11	15			
10–16 / 3–5				SS	4	18,26,25,26	51			
16–17 / 5	-5.18	End of Borehole		SS	5	18,26,31,33	57			

Moisture Content w% (10 20 30 40)
Standard Penetration Test blows/300mm (20 40 60 80)



NOTES:

1. Borehole was advanced using solid stem auger equipment on January 26, 2022 to termination at a depth of 5.2 metres.

2. Borehole was recorded as open and 'dry' upon completion and backfilled as per Ontario Regulation 903.

3. Soil samples will be discarded after 3 months unless otherwise directed by our client.

Drill Method: Solid Stem Augers
Drill Date: January 26, 2022
Hole Size: 150 Millimetres
Drilling Contractor: Elements Geo

Soil-Mat Engineers & Consultants Ltd.
130 Lancing Drive, Hamilton, ON L8W 3A1
T: 905.318.7440 F: 905.318.7455
E: info@soil-mat.ca

Datum: Existing Road Surface
Field Logged by: MA
Checked by: AR
Sheet: 1 of 1

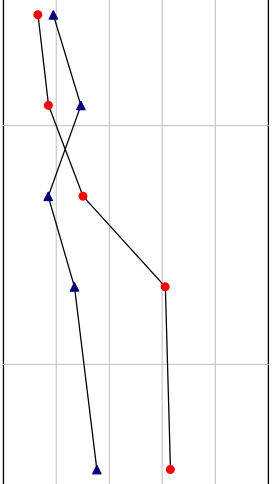
Log of Borehole No. 02

Project No: SM 301760-G
Project: Proposed Road Reconstruction
Location: Lundy's Lane, Niagara Falls
Client: Urban & Environmental Management Inc.

Project Manager: Adam Roemmele, P. Eng.
Borehole Location: See Drawing No. 2
UTM Coordinates - N: 4772421
E: 652918

Depth (ft / m)	Elevation (m)	Description	Well Data	SAMPLE Type	Number	Blow Counts	Blows/300mm	Recovery	PP (kgf/cm2)	U.Wt.(kN/m3)
	0.00	Ground Surface								
	-0.65	**Pavement Structure** Approximately 150 millimetres of asphaltic concrete over 500 millimetres of compact granular base.								
	-1.82	**Clayey Silt/Silty Clay Fill** Brown, trace sand and gravel, stiff.		SS	1	6,6,7,6,7	13			
				SS	2	4,6,11,14	17			
	-5.18	**Sandy Silt/Silt** Brown, trace to some clay, compact to very dense.		SS	3	9,14,16,22	30			
				SS	4	15,28,33,35	61			
				SS	5	22,30,33,38	63			
		End of Borehole								

Moisture Content w% (10 20 30 40)
Standard Penetration Test blows/300mm (20 40 60 80)



NOTES:

1. Borehole was advanced using solid stem auger equipment on January 25, 2022 to termination at a depth of 5.2 metres.

2. Borehole was recorded as open and 'dry' upon completion and backfilled as per Ontario Regulation 903.

3. Soil samples will be discarded after 3 months unless otherwise directed by our client.

Drill Method: Solid Stem Augers
Drill Date: January 25, 2022
Hole Size: 150 Millimetres
Drilling Contractor: Elements Geo

Soil-Mat Engineers & Consultants Ltd.
130 Lancing Drive, Hamilton, ON L8W 3A1
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E: info@soil-mat.ca

Datum: Existing Road Surface
Field Logged by: MA
Checked by: AR
Sheet: 1 of 1

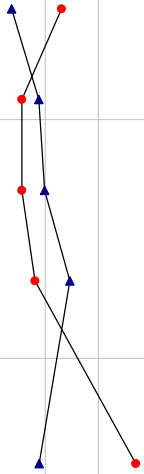
Log of Borehole No. 03

Project No: SM 301760-G
Project: Proposed Road Reconstruction
Location: Lundy's Lane, Niagara Falls
Client: Urban & Environmental Management Inc.

Project Manager: Adam Roemmele, P. Eng.
Borehole Location: See Drawing No. 2
UTM Coordinates - N: 4772416
E: 6523044

Depth (ft / m)	Elevation (m)	Description	Well Data	SAMPLE Type	Number	Blow Counts	Blows/300mm	Recovery	PP (kgf/cm2)	U.Wt.(kN/m3)
0 / 0	0.00	Ground Surface								
0–2 / 0	0.00 to -0.70	**Pavement Structure** Approximately 150 millimetres of asphaltic concrete over 550 millimetres of compact granular base.								
3–9 / 1–2	-0.70 to -2.90	**Silty Sand/Sandy Silt Fill** Brown, trace to some gravel, clayey silt inclusions in lower levels, compact.		SS	1	13,13,13,14, 14	26			
				SS	2	5,5,6,6	11			
				SS	3	5,5,6,7	11			
10–16 / 3–5	-2.90 to -5.18	**Sandy Silt/Silt** Brown, trace to some clay, trace gravel, compact to very dense.		SS	4	3,4,12,27	16			
				SS	5	18,21,33,48	54			
17 / 5	-5.18	End of Borehole								

Moisture Content w% (10 20 30 40)
Standard Penetration Test blows/300mm (20 40 60 80)



NOTES:

1. Borehole was advanced using solid stem auger equipment on January 26, 2022 to termination at a depth of 5.2 metres.

2. Borehole was recorded as open and 'dry' upon completion and backfilled as per Ontario Regulation 903.

3. Soil samples will be discarded after 3 months unless otherwise directed by our client.

Drill Method: Solid Stem Augers
Drill Date: January 26, 2022
Hole Size: 150 Millimetres
Drilling Contractor: Elements Geo

Soil-Mat Engineers & Consultants Ltd.
130 Lancing Drive, Hamilton, ON L8W 3A1
T: 905.318.7440 F: 905.318.7455
E: info@soil-mat.ca

Datum: Existing Road Surface
Field Logged by: MA
Checked by: AR
Sheet: 1 of 1

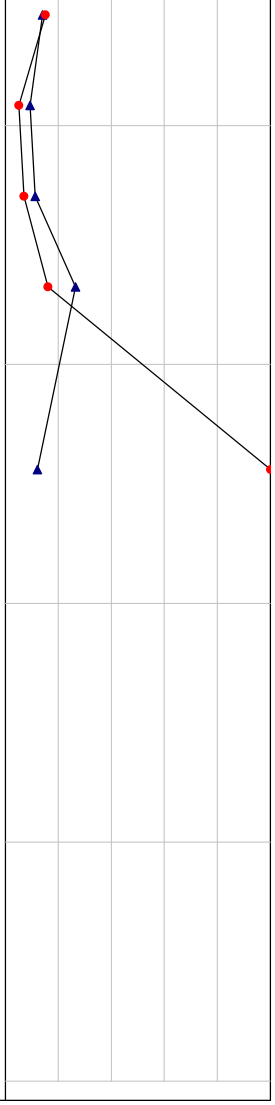
Log of Borehole No. 04

Project No: SM 301760-G
Project: Proposed Road Reconstruction
Location: Lundy's Lane, Niagara Falls
Client: Urban & Environmental Management Inc.

Project Manager: Adam Roemmele, P. Eng.
Borehole Location: See Drawing No. 3
UTM Coordinates - N: 4772422
E: 653161

Depth (ft / m)	Elevation (m)	Description	Well Data	SAMPLE Type	Number	Blow Counts	Blows/300mm	Recovery	PP (kgf/cm2)	U.Wt.(kN/m3)
0 / 0	0.00	Ground Surface								
0–2 / 0–0.5	-0.68	**Pavement Structure** Approximately 175 millimetres of asphaltic concrete over 500 millimetres of compact granular base.								
2–10 / 0.5–3	-3.25	**Silty Sand/Sandy Silt Fill** Brown, trace gravel, decreasing gravel content with depth, compact to loose.		SS	1	10,8,7,9,8	15			
				SS	2	3,2,3,4	5			
				SS	3	2,3,4,5	7			
10–16 / 3–5	-4.95	**Sandy Silt/Silt** Brown, trace to some clay, trace gravel, compact to very dense.		SS	4	5,6,10,19	16			
				SS	5	25,46,50/3"	100			
16 / 5		End of Borehole								

Moisture Content w% (10 20 30 40)
Standard Penetration Test blows/300mm (20 40 60 80)



NOTES:

1. Borehole was advanced using solid stem auger equipment on January 26, 2022 to termination at a depth of 5.0 metres.

2. Borehole was recorded as open and 'dry' upon completion and backfilled as per Ontario Regulation 903.

3. Soil samples will be discarded after 3 months unless otherwise directed by our client.

Drill Method: Solid Stem Augers
Drill Date: January 26, 2022
Hole Size: 150 millimetres
Drilling Contractor: Elements Geo

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E: info@soil-mat.ca

Datum: Existing Road Surface
Field Logged by: MA
Checked by: AR
Sheet: 1 of 1

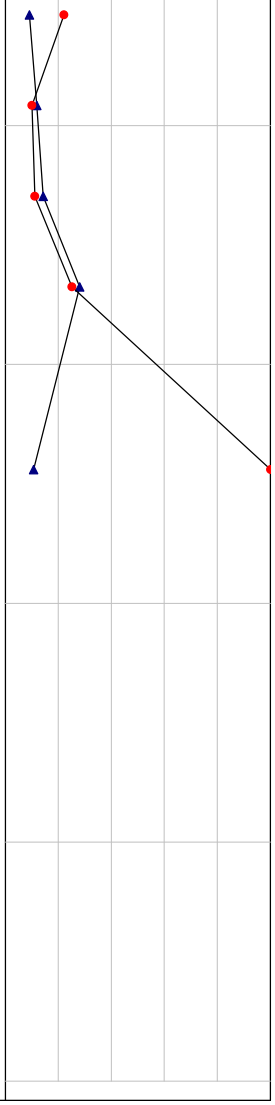
Log of Borehole No. 05

Project No: SM 301760-G
Project: Proposed Road Reconstruction
Location: Lundy's Lane, Niagara Falls
Client: Urban & Environmental Management Inc.

Project Manager: Adam Roemmele, P. Eng.
Borehole Location: See Drawing No. 3
UTM Coordinates - N: 4772445
E: 653077

Depth (ft / m)	Elevation (m)	Description	Well Data	SAMPLE Type	Number	Blow Counts	Blows/300mm	Recovery	PP (kgf/cm2)	U.Wt.(kN/m3)
0 / 0	0.00	Ground Surface								
0–2 / 0–1	-0.63	**Pavement Structure** Approximately 225 millimetres of asphaltic concrete over 400 millimetres of compact granular base.								
3–9 / 1–2	-2.90	**Silty Sand/Sandy Silt Fill** Brown, trace gravel, compact.		SS	1	17,12,10,10, 10	22			
				SS	2	3,4,6,6	10			
				SS	3	3,5,6,7	11			
10–16 / 3–5	-4.98	**Sandy Silt/ Silt** Brown, trace to some clay, compact to very dense.		SS	4	7,10,15,17	25			
				SS	5	23,48,50/4"	100			
		End of Borehole								

Moisture Content w% (10 20 30 40)
Standard Penetration Test blows/300mm (20 40 60 80)



NOTES:

1. Borehole was advanced using solid stem auger equipment on January 25, 2022 to spoon refusal at a depth of 5.0 metres.

2. Borehole was recorded as open and 'dry' upon completion and backfilled as per Ontario Regulation 903.

3. Soil samples will be discarded after 3 months unless otherwise directed by our client.

Drill Method: Solid Stem Augers
Drill Date: January 25, 2022
Hole Size: 150 Millimetres
Drilling Contractor: Elements Geo

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130 Lancing Drive, Hamilton, ON L8W 3A1
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E: info@soil-mat.ca

Datum: Existing Road Surface
Field Logged by: MA
Checked by: AR
Sheet: 1 of 1

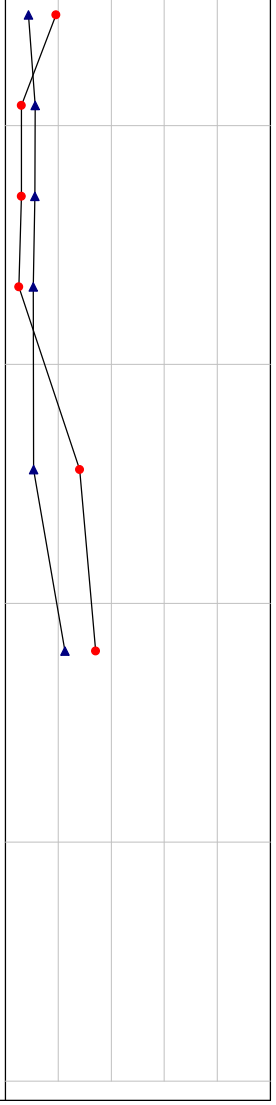
Log of Borehole No. 06

Project No: SM 301760-G
Project: Proposed Road Reconstruction
Location: Lundy's Lane, Niagara Falls
Client: Urban & Environmental Management Inc.

Project Manager: Adam Roemmele, P. Eng.
Borehole Location: See Drawing No. 4
UTM Coordinates - N: 4772455
E: 653457

Depth (ft / m)	Elevation (m)	Description	Well Data	SAMPLE Type	Number	Blow Counts	Blows/300mm	Recovery	PP (kgf/cm2)	U.Wt.(kN/m3)
	0.00	Ground Surface								
0 / 0		**Pavement Structure** Approximately 175 millimetres of asphaltic concrete over 700 millimetres of compact granular base.								
3 / 1	-0.88	**Silty Sand/Sandy Silt Fill** Brown, with trace to some gravel, compact to loose.		SS	1	21,11,8,9,12	19			
6 / 2				SS	2	3,3,3,5	6			
9 / 3				SS	3	3,3,3,3	6			
12 / 4				SS	4	1,2,3,4	5			
16 / 5	-4.93	**Silty Sand/Sandy Silt** Brown, trace gravel and clay, compact to dense.		SS	5	8,11,17,20	28			
20 / 6				SS	6	11,16,18,21	34			
22 / 7	-6.71	End of Borehole								

Moisture Content w% (10 20 30 40)
Standard Penetration Test blows/300mm (20 40 60 80)



NOTES:

1. Borehole was advanced using solid stem auger equipment on January 27, 2022 to termination at a depth of 6.7 metres.

2. Borehole was recorded as open and 'dry' upon completion and backfilled as per Ontario Regulation 903.

3. Soil samples will be discarded after 3 months unless otherwise directed by our client.

Drill Method: Solid Stem Augers
Drill Date: January 27, 2022
Hole Size: 150 Millimetres
Drilling Contractor: Elements Geo

Soil-Mat Engineers & Consultants Ltd.
130 Lancing Drive, Hamilton, ON L8W 3A1
T: 905.318.7440 F: 905.318.7455
E: info@soil-mat.ca

Datum: Existing Road Surface
Field Logged by: MA
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Sheet: 1 of 1

Log of Borehole No. 07

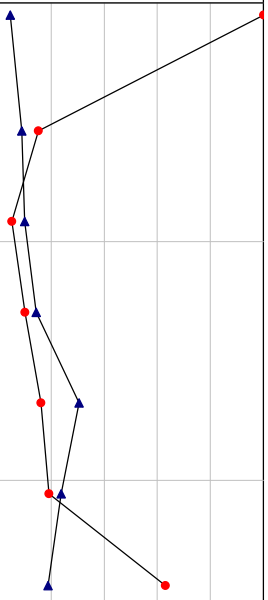
Project No: SM 301760-G
Project: Proposed Road Reconstruction
Location: Lundy's Lane, Niagara Falls
Client: Urban & Environmental Management Inc.

Project Manager: Adam Roemmele, P. Eng.
Borehole Location: See Drawing No. 4
UTM Coordinates - N: 4772449
E: 653542

Depth (ft / m)	Elevation (m)	Description	Well Data	SAMPLE Type	Number	Blow Counts	Blows/300mm	Recovery	PP (kgf/cm2)	U.Wt.(kN/m3)
0 / 0	0.00	Ground Surface								
0–2 / 0–0.68	-0.68	**Pavement Structure** Approximately 400 millimetres of asphaltic concrete over 275 millimetres of compact granular base.		SS	1	50/2"	100			
2–8 / 0.68–2.59	-2.59	**Silty Sand/Sandy Silt Fill** Brown, with some gravel, trace clay, compact to loose.		SS SS	2 3	9,8,7,6 3,2,3,4	15 5			
8–16 / 2.59–5.18	-5.18	**Silty Sand/Sandy Silt** Brown, trace clay and gravel, compact to very dense.		SS SS SS SS	4 5 6 7	3,3,7,11 6,7,9,11 7,9,10,13 17,29,34,45	10 16 19 63			
16 / 5.18		End of Borehole								

Moisture Content w% (10 20 30 40)

Standard Penetration Test blows/300mm (20 40 60 80)



NOTES:

1. Borehole was advanced using solid stem auger equipment on January 24, 2022 to termination at a depth of 5.2 metres.

2. Borehole was recorded as open and 'dry' upon completion and backfilled as per Ontario Regulation 903.

3. Soil samples will be discarded after 3 months unless otherwise directed by our client.

Drill Method: Solid Stem Augers
Drill Date: January 27, 2022
Hole Size: 150 Millimetres
Drilling Contractor: Elements Geo

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Datum: Existing Road Surface
Field Logged by: MA
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Log of Borehole No. 08

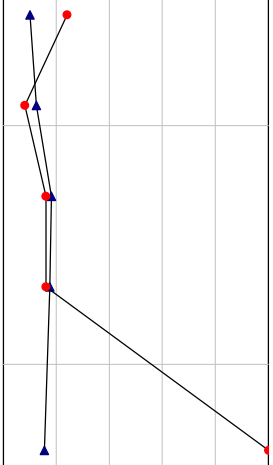
Project No: SM 301760-G
Project: Proposed Road Reconstruction
Location: Lundy's Lane, Niagara Falls
Client: Urban & Environmental Management Inc.

Project Manager: Adam Roemmele, P. Eng.
Borehole Location: See Drawing No. 3
UTM Coordinates - N: 4772462
E: 653664

Depth (ft / m)	Elevation (m)	Description	Type	Number	Blow Counts	Blows/300mm	Recovery	PP (kgf/cm2)	U.Wt.(kN/m3)
0 / 0	0.00	Ground Surface							
0–2 / 0–0.65		**Pavement Structure** Approximately 200 millimetres of asphaltic concrete over 450 millimetres of compact granular base.							
2–10 / 0.65–3.05		**Silty Sand/Sandy Silt Fill** Brown, trace to some gravel, loose to compact.	SS	1	10,12,12,12, 11	24			
			SS	2	4,4,4,6	8			
			SS	3	5,7,9,13	16			
10–15 / 3.05–4.86		**Sandy Silt/Silt** Brown, trace to some clay, compact to very dense.	SS	4	5,7,9,16	16			
15 / 4.86		End of Borehole	SS	5	25,50/5.5"	100			

Moisture Content w% (10 20 30 40)

Standard Penetration Test blows/300mm (20 40 60 80)



NOTES:

1. Borehole was advanced using solid stem auger equipment on January 25, 2022 to spoon refusal at a depth of 4.9 metres.

2. Borehole was recorded as open and 'dry' upon completion and backfilled as per Ontario Regulation 903.

3. Soil samples will be discarded after 3 months unless otherwise directed by our client.

Drill Method: Solid Stem Augers
Drill Date: January 25, 2022
Hole Size: 150 Millimetres
Drilling Contractor: Elements Geo

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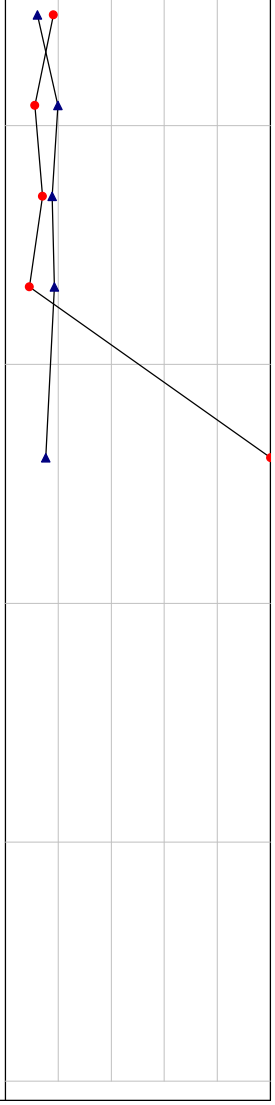
Log of Borehole No. 09

Project No: SM 301760-G
Project: Proposed Road Reconstruction
Location: Lundy's Lane, Niagara Falls
Client: Urban & Environmental Management Inc.

Project Manager: Adam Roemmele, P. Eng.
Borehole Location: See Drawing No. 4
UTM Coordinates - N: 4772460
E: 653698

Depth (ft / m)	Elevation (m)	Description	Well Data	SAMPLE Type	Number	Blow Counts	Blows/300mm	Recovery	PP (kgf/cm2)	U.Wt.(kN/m3)
0 / 0	0.00	Ground Surface								
0 / 0		**Pavement Structure** Approximately 175 millimetres of asphaltic concrete over 375 millimetres of compact granular base.								
0 / 0	-0.55	**Sandy Silt/Silt** Brown, trace to some clay, trace gravel in upper levels, reworked in upper levels, loose to very dense.		SS	1	11,10,8,6,7	18			
5 / 2				SS	2	4,6,5,7	11			
10 / 3				SS	3	4,6,8,10	14			
15 / 4				SS	4	4,5,4,6	9			
16 / 5	-5.00	End of Borehole		SS	5	20,33,50/5"	100			

Moisture Content w% (10 20 30 40)
Standard Penetration Test blows/300mm (20 40 60 80)



NOTES:

1. Borehole was advanced using solid stem auger equipment on January 25, 2022 to spoon refusal at a depth of 5.0 metres.

2. Borehole was recorded as open and 'dry' upon completion and backfilled as per Ontario Regulation 903.

3. Soil samples will be discarded after 3 months unless otherwise directed by our client.

Drill Method: Solid Stem Augers
Drill Date: January 25, 2022
Hole Size: 150 Millimetres
Drilling Contractor: Elements Geo

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130 Lancing Drive, Hamilton, ON L8W 3A1
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Datum: Existing Road Surface
Field Logged by: MA
Checked by: AR
Sheet: 1 of 1

Log of Borehole No. 10

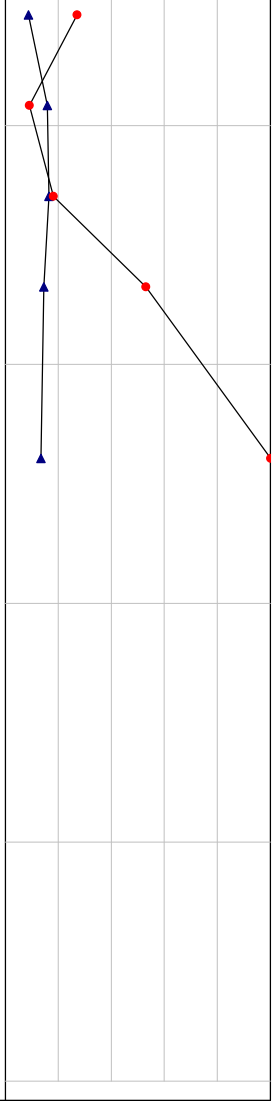
Project No: SM 301760-G
Project: Proposed Road Reconstruction
Location: Lundy's Lane, Niagara Falls
Client: Urban & Environmental Management Inc.

Project Manager: Adam Roemmele, P. Eng.
Borehole Location: See Drawing No. 4
UTM Coordinates - N: 4772457
E: 653733

Depth (ft / m)	Elevation (m)	Description	Well Data	SAMPLE Type	Number	Blow Counts	Blows/300mm	Recovery	PP (kgf/cm2)	U.Wt.(kN/m3)
0 / 0	0.00	Ground Surface								
0–2 / 0	0.00 to -0.73	**Pavement Structure** Approximately 200 millimetres of asphalt overlying 525 millimetres of granular fill								
2–5 / 1	-0.73 to -1.52	**Silty Sand/Sandy Silt Fill** Brown, trace gravel, dense.		SS	1	24,15,12,9, 10	27			
5–16 / 2–5	-1.52 to -5.00	**Sandy Silt/Silt** Brown, trace to some clay, trace gravel, reworked in upper level, loose to very dense.		SS SS SS SS	2 3 4 5	4,4,5,6 5,9,9,11 11,18,35,21 25,38,50/5"	9 18 53 100			
16 / 5	-5.00	End of Borehole								

Moisture Content w% (10 20 30 40)

Standard Penetration Test blows/300mm (20 40 60 80)



NOTES:

1. Borehole was advanced using solid stem auger equipment on January 27, 2022 to spoon refusal at a depth of 5.0 metres.

2. Borehole was recorded as open and 'dry' upon completion and backfilled as per Ontario Regulation 903.

3. Soil samples will be discarded after 3 months unless otherwise directed by our client.

Drill Method: Solid Stem Augers
Drill Date: January 27, 2022
Hole Size: 150 Millimetres
Drilling Contractor: Elements Geo

Soil-Mat Engineers & Consultants Ltd.
130 Lancing Drive, Hamilton, ON L8W 3A1
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E: info@soil-mat.ca

Datum: Existing Road Surface
Field Logged by: MA
Checked by: AR
Sheet: 1 of 1

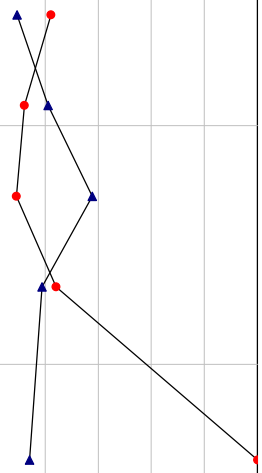
Log of Borehole No. 11

Project No: SM 301760-G
Project: Proposed Road Reconstruction
Location: Lundy's Lane, Niagara Falls
Client: Urban & Environmental Management Inc.

Project Manager: Adam Roemmele, P. Eng.
Borehole Location: See Drawing No. 5
UTM Coordinates - N: 4772468
E: 653858

Depth (ft / m)	Elevation (m)	Description	Well Data	SAMPLE Type	Number	Blow Counts	Blows/300mm	Recovery	PP (kgf/cm2)	U.Wt.(kN/m3)
0 / 0	0.00	Ground Surface								
0–2 / 0–0.7	-0.71	**Pavement Structure** Approximately 225 millimetres of asphalt overlying 475 millimetres of granular fill.								
2–8 / 0.7–2.6	-2.59	**Silty Sand/Sandy Silt Fill** Brown, trace to gravel, compact.		SS	1	13,12,10,10, 11	22			
				SS	2	4,5,7,7	12			
8–16 / 2.6–5.0	-5.03	**Sandy Silt/Silt** Brown, trace to some clay, reworked in upper levels, loose to very dense.		SS	3	4,5,4,4	9			
				SS	4	8,11,13,19	24			
				SS	5	20,35,50/6"	100			
16 / 5		End of Borehole								

Moisture Content w% (10 20 30 40)
Standard Penetration Test blows/300mm (20 40 60 80)



NOTES:

1. Borehole was advanced using solid stem auger equipment on January 25, 2022 to spoon refusal at a depth of 5.0 metres.

2. Borehole was recorded as open and 'dry' upon completion and backfilled as per Ontario Regulation 903.

3. Soil samples will be discarded after 3 months unless otherwise directed by our client.

Drill Method: Solid Stem Augers
Drill Date: January 25, 2022
Hole Size: 150 Millimetres
Drilling Contractor: Elements Geo

Soil-Mat Engineers & Consultants Ltd.
130 Lancing Drive, Hamilton, ON L8W 3A1
T: 905.318.7440 F: 905.318.7455
E: info@soil-mat.ca

Datum: Existing Road Surface
Field Logged by: MA
Checked by: AR
Sheet: 1 of 1

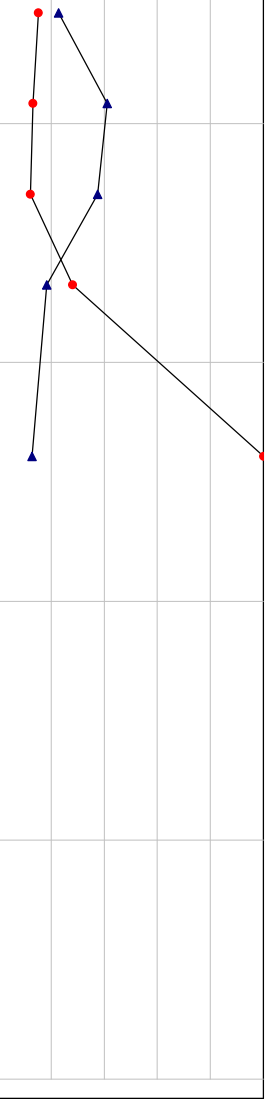
Log of Borehole No. 12

Project No: SM 301760-G
Project: Proposed Road Reconstruction
Location: Lundy's Lane, Niagara Falls
Client: Urban & Environmental Management Inc.

Project Manager: Adam Roemmele, P. Eng.
Borehole Location: See Drawing No. 5
UTM Coordinates - N: 4772466
E: 653977

Depth (ft / m)	Elevation (m)	Description	Well Data	SAMPLE Type	Number	Blow Counts	Blows/300mm	Recovery	PP (kgf/cm2)	U.Wt.(kN/m3)
0 / 0	0.00	Ground Surface								
0–2 / 0	-0.45	**Pavement Structure** Approximately 250 millimetres of asphaltic concrete over 200 millimetres of compact granular base.								
2–5 / 1	-1.57	**Silty Sand/Sandy Silt Fill** Brown, trace gravel, compact.		SS	1	6,7,8,7	15			
5–10 / 2	-3.05	**Clayey Silt/SiltyClay Fill** Brown, trace sand, gravel, and organics, stiff.		SS SS	2 3	5,6,7,8, 3,5,7,7	13 12			
10–16 / 3–5	-5.00	**Clayey Silt/Silt** Brown, trace to some clay, compact to very dense.		SS	4	7,13,15,19	28			
		End of Borehole		SS	5	22,40,50/5"	100			

Moisture Content w% (10 20 30 40)
Standard Penetration Test blows/300mm (20 40 60 80)



NOTES:

1. Borehole was advanced using solid stem auger equipment on January 24, 2022 to spoon refusal at a depth of 5.0 metres.

2. Borehole was recorded as open and 'dry' upon completion and backfilled as per Ontario Regulation 903.

3. Soil samples will be discarded after 3 months unless otherwise directed by our client.

Drill Method: Solid Stem Augers
Drill Date: January 24, 2022
Hole Size: 150 Millimetres
Drilling Contractor: Elements Geo

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130 Lancing Drive, Hamilton, ON L8W 3A1
T: 905.318.7440 F: 905.318.7455
E: info@soil-mat.ca

Datum: Existing Road Surface
Field Logged by: MA
Checked by: AR
Sheet: 1 of 1

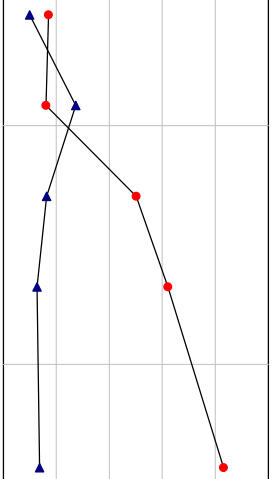
Log of Borehole No. 13

Project No: SM 301760-G
Project: Proposed Road Reconstruction
Location: Lundy's Lane, Niagara Falls
Client: Urban & Environmental Management Inc.

Project Manager: Adam Roemmele, P. Eng.
Borehole Location: See Drawing No. 5
UTM Coordinates - N: 4772479
E: 654096

Depth (ft / m)	Elevation (m)	Description	Well Data	SAMPLE Type	Number	Blow Counts	Blows/300mm	Recovery	PP (kgf/cm2)	U.Wt.(kN/m3)
0 / 0	0.00	Ground Surface								
0–2 / 0–0.6	-0.63	**Pavement Structure** Approximately 150 millimetres of asphaltic concrete over 475 millimetres of compact granular base.								
3–5 / 1–1.5	-1.52	**Silty Sand/Sandy Silt Fill** Brown, trace gravel, compact.		SS	1	11,9,8,7,7	17			
5–16 / 1.5–5	-5.16	**Sandyy Silt/Silt** Brown, trace to some clay, trace gravel, occasional rock fragment, compact to very dense.		SS SS SS SS	2 3 4 5	5,6,10,11 12,21,29,43 18,29,33, 50/5" 22,38,45, 50/5"	16 50 62 83			
16–33 / 5–10		End of Borehole								

Moisture Content w% (10 20 30 40)
Standard Penetration Test blows/300mm (20 40 60 80)



NOTES:

1. Borehole was advanced using solid stem auger equipment on January 27, 2022 to spoon refusal at a depth of 5.2 metres.

2. Borehole was recorded as open and 'dry' upon completion and backfilled as per Ontario Regulation 903.

3. Soil samples will be discarded after 3 months unless otherwise directed by our client.

Drill Method: Solid Stem Augers
Drill Date: January 27, 2022
Hole Size: 150 Millimetres
Drilling Contractor: Elements Geo

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130 Lancing Drive, Hamilton, ON L8W 3A1
T: 905.318.7440 F: 905.318.7455
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Datum: Existing Road Surface
Field Logged by: MA
Checked by: AR
Sheet: 1 of 1

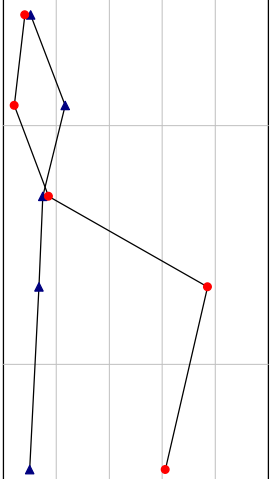
Log of Borehole No. 14

Project No: SM 301760-G
Project: Proposed Road Reconstruction
Location: Lundy's Lane, Niagara Falls
Client: Urban & Environmental Management Inc.

Project Manager: Adam Roemmele, P. Eng.
Borehole Location: See Drawing No. 5
UTM Coordinates - N: 4772472
E: 654176

Depth (ft / m)	Elevation (m)	Description	Well Data	SAMPLE Type	Number	Blow Counts	Blows/300mm	Recovery	PP (kgf/cm2)	U.Wt.(kN/m3)
0 / 0	0.00	Ground Surface								
0–2 / 0–1	-0.48	**Pavement Structure** Approximately 175 millimetres of asphaltic concrete over 300 millimetres of compact granular base.								
2–8 / 1–2	-2.59	**Silty Sand/Sandy Silt Fill** Brown, trace clay and gravel, occasional construction debris, loose to compact.		SS	1	6,5,3,3,4	8			
				SS	2	2,2,2,2	4			
				SS	3	7,8,9,17	17			
8–16 / 2–5	-5.18	**Sandy Silt/Silt** Brown, trace to some clay, trace gravel, compact to very dense.		SS	4	22,31,46, 50/5"	77			
				SS	5	18,27,34,37	61			
16 / 5		End of Borehole								

Moisture Content w% (10 20 30 40)
Standard Penetration Test blows/300mm (20 40 60 80)



NOTES:

1. Borehole was advanced using solid stem auger equipment on Feburary 1, 2022 to termination at a depth of 5.2 metres.

2. Borehole was recorded as open and 'dry' upon completion and backfilled as per Ontario Regulation 903.

3. Soil samples will be discarded after 3 months unless otherwise directed by our client.

Drill Method: Solid Stem Augers
Drill Date: February 1, 2022
Hole Size: 150 Millimetres
Drilling Contractor: Elements Geo

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E: info@soil-mat.ca

Datum: Existing Road Surface
Field Logged by: MA
Checked by: AR
Sheet: 1 of 1

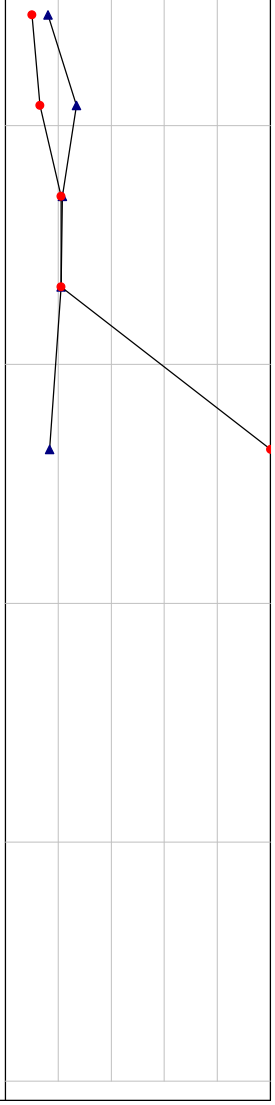
Log of Borehole No. 15

Project No: SM 301760-G
Project: Proposed Road Reconstruction
Location: Lundy's Lane, Niagara Falls
Client: Urban & Environmental Management Inc.

Project Manager: Adam Roemmele, P. Eng.
Borehole Location: See Drawing No. 5
UTM Coordinates - N: 4772483
E: 654250

Depth (ft / m)	Elevation (m)	Description	Well Data	SAMPLE Type	Number	Blow Counts	Blows/300mm	Recovery	PP (kgf/cm2)	U.Wt.(kN/m3)
0 / 0	0.00	Ground Surface								
0 / 0		**Pavement Structure** Approximately 125 millimetres of asphaltic concrete over 475 millimetres of compact granular base.								
3 / 1	-0.60	**Silty Sand/Sandy Silt Fill** Brown, trace gravel, compact.		SS	1	6,6,4,4,5	10			
6 / 2	-1.83	**Sandy Silt/Silt** Brown, trace to some clay, trace gravel, compact to very dense.		SS	2	5,6,7,10	13			
				SS	3	8,10,11,14	21			
				SS	4	8,10,11,16	21			
15 / 5	-4.85	End of Borehole		SS	5	20,50/5"	100			

Moisture Content w% (10 20 30 40)
Standard Penetration Test blows/300mm (20 40 60 80)



NOTES:

1. Borehole was advanced using solid stem auger equipment on January 27, 2022 to spoon refusal at a depth of 4.9 metres.

2. Borehole was recorded as open and 'dry' upon completion and backfilled as per Ontario Regulation 903.

3. Soil samples will be discarded after 3 months unless otherwise directed by our client.

Drill Method: Solid Stem Augers
Drill Date: January 27, 2022
Hole Size: 150 Millimetres
Drilling Contractor: Elements Geo

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Sheet: 1 of 1

Log of Borehole No. 16

Project No: SM 301760-G
Project: Proposed Road Reconstruction
Location: Lundy's Lane, Niagara Falls
Client: Urban & Environmental Management Inc.

Project Manager: Adam Roemmele, P. Eng.
Borehole Location: See Drawing No. 5
UTM Coordinates - N: 4772476
E: 654286

Depth (ft / m)	Elevation (m)	Description	Well Data	SAMPLE Type	Number	Blow Counts	Blows/300mm	Recovery	PP (kgf/cm2)	U.Wt.(kN/m3)
0 / 0	0.00	Ground Surface								
0–2 / 0–0.6	-0.70	**Pavement Structure** Approximately 225 millimetres of asphaltic concrete over 475 millimetres of compact granular base.								
2–6 / 0.6–1.8	-1.82	**Silty Sand/Sandy Silt Fill** Brown, some to trace gravel, compact.		SS	1	7,7,5,5,7	12			
				SS	2	4,6,7,9	13			
6–15 / 1.8–4.6	-4.88	**Sandy Silt/Silt** Brown, trace clay, trace gravel, occasional rock fragments, compact to very dense.		SS	3	7,11,15,17	26			
				SS	4	9,12,16,17	28			
15–16 / 4.6–4.9				SS	5	28,50/6"	100			
16 / 4.9		End of Borehole								

NOTES:

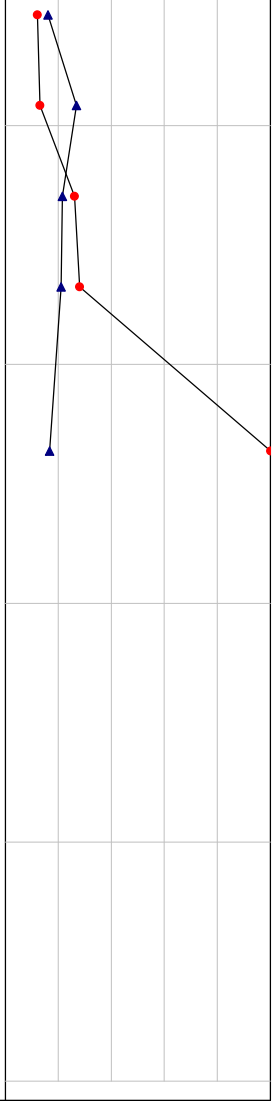
1. Borehole was advanced using solid stem auger equipment on February 1, 2022 to spoon refusal at a depth of 4.9 metres.

2. Borehole was recorded as open and 'dry' upon completion and backfilled as per Ontario Regulation 903.

3. Soil samples will be discarded after 3 months unless otherwise directed by our client.

Moisture Content w% (10 20 30 40)

Standard Penetration Test blows/300mm (20 40 60 80)



Drill Method: Solid Stem Augers
Drill Date: February 1, 2022
Hole Size: 150 Millimetres
Drilling Contractor: Elements Geo

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Log of Borehole No. 17

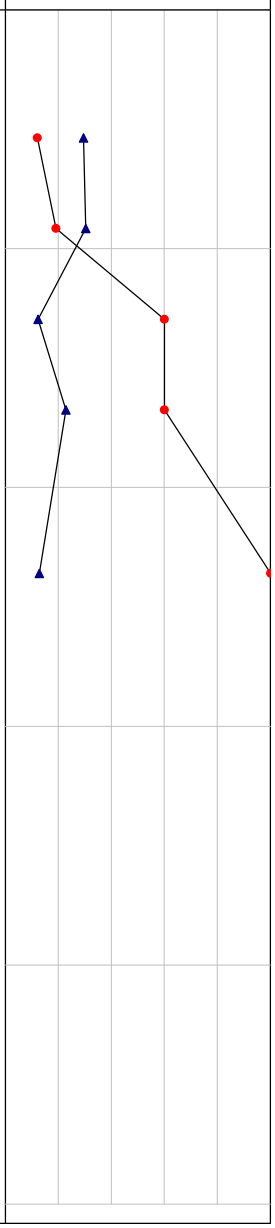
Project No: SM 301760-G
Project: Proposed Road Reconstruction
Location: Lundy's Lane, Niagara Falls
Client: Urban & Environmental Management Inc.

Project Manager: Adam Roemmele, P. Eng.
Borehole Location: See Drawing No. 5
UTM Coordinates - N: 4772490
E: 654372

Depth (ft / m)	Elevation (m)	Description	Well Data	SAMPLE Type	Number	Blow Counts	Blows/300mm	Recovery	PP (kgf/cm2)	U.Wt.(kN/m3)
0 / 0	0.00	Ground Surface								
0–2 / 0–1	0.00 to -0.70	**Pavement Structure** Approximately 200 millimetres of asphaltic concrete over 500 millimetres of compact granular base.								
2–3 / 1	-0.70 to -0.91	**Silty Sand/Sandy Silt Fill** Brown, trace gravel, loose.		SS	1	5,6,6,5,8	12			
3–10 / 1–3	-0.91 to -4.88	**Sandy Silt/Silt** Brown, trace to some clay, trace gravel, compact to very dense.		SS SS SS	2 3 4	5,8,11,10 9,22,38,49 9,22,38,50/6"	19 60 60			
15–16 / 4–5	-4.88	End of Borehole		SS	5	20,50/6"	100			

Moisture Content w% (10 20 30 40)

Standard Penetration Test blows/300mm (20 40 60 80)



NOTES:

1. Borehole was advanced using solid stem auger equipment on January 27, 2022 to spoon refusal at a depth of 4.9 metres.

2. Borehole was recorded as open and 'dry' upon completion and backfilled as per Ontario Regulation 903.

3. Soil samples will be discarded after 3 months unless otherwise directed by our client.

Drill Method: Solid Stem Augers
Drill Date: January 27, 2022
Hole Size: 150 Millimetres
Drilling Contractor: Elements Geo

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Sheet: 1 of 1

Log of Borehole No. 18

Project No: SM 301760-G
Project: Proposed Road Reconstruction
Location: Lundy's Lane, Niagara Falls
Client: Urban & Environmental Management Inc.

Project Manager: Adam Roemmele, P. Eng.
Borehole Location: See Drawing No. 5
UTM Coordinates - N: 4772482
E: 654800

Depth (ft)	Depth (m)	Elevation (m)	Description	Type	Number	Blow Counts	Blows/300mm	Recovery	PP (kgf/cm2)	U.Wt.(kN/m3)
		0.00	Ground Surface							
0	0		**Pavement Structure** Approximately 150 millimetres of asphaltic concrete over 550 millimetres of compact granular base.							
2		-0.70	**Sandy Silt/Silt** Brown, trace to some clay, trace gravel, reworked in the upper levels, compact to very dense.	SS	1	4,5,5,6,8	10			
3	1			SS	2	5,8,8,7	16			
7	2			SS	3	5,8,11,14	19			
10	3			SS	4	8,15,16,19	31			
16	5	-5.20	End of Borehole	SS	5	10,14,16,18	30			

Moisture Content w% (10 20 30 40)
Standard Penetration Test blows/300mm (20 40 60 80)



NOTES:

1. Borehole was advanced using solid stem auger equipment on February 1, 2022 to spoon refusal at a depth of 5.2 metres.

2. Borehole was recorded as open and 'dry' upon completion and backfilled as per Ontario Regulation 903.

3. Soil samples will be discarded after 3 months unless otherwise directed by our client.

Drill Method: Solid Stem Augers
Drill Date: February 1, 2022
Hole Size: 150 Millimetres
Drilling Contractor: Elements Geo

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Datum: Existing Road Surface
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Checked by: AR
Sheet: 1 of 1

AGAT Laboratories

2910 12TH STREET NE
CALGARY, ALBERTA
CANADA T2E 7P7
TEL (403)735-2005
FAX (403)735-2771
http://www.agatlabs.com

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT
130 LANCING DRIVE
HAMILTON, ON L8W3A1
(905) 318-7440

ATTENTION TO: Adam Roemmele

PROJECT: SM301760

AGAT WORK ORDER: 22T858476

ROCK ANALYSIS REVIEWED BY: Jewel Shibu, Lab Supervisor

SOIL ANALYSIS REVIEWED BY: Jacky Zhu, Spectroscopy Technician

TRACE ORGANICS REVIEWED BY: Neli Popnikolova, Senior Chemist

DATE REPORTED: Feb 16, 2022

PAGES (INCLUDING COVER): 38

VERSION*: 2

Should you require any information regarding this analysis please contact your client services representative at (403) 735-2005

*Notes

VERSION 2:Version 2 supersedes work order 22T858476 Version 1, issued February 9, 2022. Complete.
VERSION 1:February 9, 2022 - Partial (excluding Sulphide)

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- AGAT's liability in connection with any delay, performance or non-performance of these services is only to the Client and does not extend to any other third party. Unless expressly agreed otherwise in writing, AGAT's liability is limited to the actual cost of the specific analysis or analyses included in the services.
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Certificate of Analysis

AGAT WORK ORDER: 22T858476

PROJECT: SM301760

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Adam Roemmele

SAMPLING SITE:Lundy's Lane

SAMPLED BY:MA

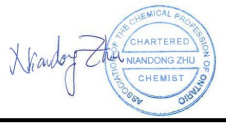
O. Reg. 153(511) - Metals & Inorganics (Soil)

DATE RECEIVED: 2022-01-28

DATE REPORTED: 2022-02-16

		SAMPLE DESCRIPTION:		BH1 SS1	BH1 SS3	BH2 SS1	BH2 SS2	BH3 SS1	BH3 SS4	BH4 SS1	BH4 SS3
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2022-01-26	2022-01-26	2022-01-26	2022-01-26	2022-01-26	2022-01-26	2022-01-26	2022-01-26
Parameter	Unit	G / S	RDL	3464953	3464970	3464971	3464972	3464974	3464976	3464977	3464979
Antimony	µg/g	1.3	0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Arsenic	µg/g	18	1	3	2	2	4	4	5	2	2
Barium	µg/g	220	2.0	43.4	21.2	38.7	107	75.6	107	28.2	11.0
Beryllium	µg/g	2.5	0.4	<0.4	<0.4	<0.4	0.5	<0.4	0.7	<0.4	<0.4
Boron	µg/g	36	5	6	<5	<5	6	5	13	<5	<5
Boron (Hot Water Soluble)	µg/g	NA	0.10	0.13	<0.10	<0.10	<0.10	0.15	<0.10	<0.10	<0.10
Cadmium	µg/g	1.2	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	µg/g	70	5	12	9	10	19	9	24	6	7
Cobalt	µg/g	21	0.5	5.5	5.7	4.9	9.0	3.5	12.4	2.8	2.7
Copper	µg/g	92	1.0	11.7	9.3	10.4	18.1	16.7	21.2	7.8	6.3
Lead	µg/g	120	1	4	5	4	8	10	9	3	3
Molybdenum	µg/g	2	0.5	<0.5	<0.5	<0.5	<0.5	0.6	0.5	<0.5	<0.5
Nickel	µg/g	82	1	13	11	11	21	7	27	6	5
Selenium	µg/g	1.5	0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Silver	µg/g	0.5	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Thallium	µg/g	1	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Uranium	µg/g	2.5	0.50	0.59	<0.50	<0.50	0.53	<0.50	0.66	<0.50	<0.50
Vanadium	µg/g	86	0.4	19.7	14.0	15.2	26.7	11.8	32.4	12.0	12.0
Zinc	µg/g	290	5	29	27	25	49	47	63	19	15
Chromium, Hexavalent	µg/g	0.66	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Cyanide, Free	µg/g	0.051	0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Mercury	µg/g	0.27	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Electrical Conductivity (2:1)	mS/cm	0.57	0.005	2.31	7.44	2.19	2.36	2.93	4.30	2.12	0.716
Sodium Adsorption Ratio (2:1) (Calc.)	N/A	2.4	N/A	100	130	30.4	24.5	5.39	71.6	31.5	20.5
pH, 2:1 CaCl2 Extraction	pH Units		NA	7.41	6.28	6.77	7.11	7.23	7.19	6.74	6.85

Certified By:



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AGAT Laboratories

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Certificate of Analysis

AGAT WORK ORDER: 22T858476

PROJECT: SM301760

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Adam Roemmele

SAMPLING SITE:Lundy's Lane

SAMPLED BY:MA

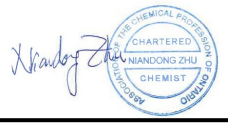
O. Reg. 153(511) - Metals & Inorganics (Soil)

DATE RECEIVED: 2022-01-28

DATE REPORTED: 2022-02-16

		SAMPLE DESCRIPTION:		BH5 SS1	BH5 SS4	BH6 SS1	BH6 SS2	BH7 SS4	BH7 SS2	BH8 SS1	BH8 SS4
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2022-01-25	2022-01-25	2022-01-27	2022-01-27	2022-01-24	2022-01-24	2022-01-25	2022-01-25
Parameter	Unit	G / S	RDL	3464980	3464981	3464983	3464984	3464986	3464987	3464989	3464990
Antimony	µg/g	1.3	0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Arsenic	µg/g	18	1	3	3	2	2	2	2	2	2
Barium	µg/g	220	2.0	27.4	37.6	32.9	13.0	15.4	24.4	25.9	15.7
Beryllium	µg/g	2.5	0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
Boron	µg/g	36	5	<5	<5	<5	<5	<5	<5	<5	<5
Boron (Hot Water Soluble)	µg/g	NA	0.10	<0.10	<0.10	0.16	<0.10	<0.10	<0.10	0.13	<0.10
Cadmium	µg/g	1.2	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	µg/g	70	5	7	10	<5	<5	6	6	6	5
Cobalt	µg/g	21	0.5	3.4	6.2	2.9	2.2	2.8	2.1	2.9	3.2
Copper	µg/g	92	1.0	12.2	10.4	14.3	7.7	7.6	7.9	11.5	6.8
Lead	µg/g	120	1	5	4	4	2	2	2	3	2
Molybdenum	µg/g	2	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Nickel	µg/g	82	1	6	12	5	4	6	6	6	6
Selenium	µg/g	1.5	0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Silver	µg/g	0.5	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Thallium	µg/g	1	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Uranium	µg/g	2.5	0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Vanadium	µg/g	86	0.4	15.4	16.6	8.7	7.3	11.3	6.7	11.1	11.0
Zinc	µg/g	290	5	23	29	23	13	17	14	18	18
Chromium, Hexavalent	µg/g	0.66	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Cyanide, Free	µg/g	0.051	0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Mercury	µg/g	0.27	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Electrical Conductivity (2:1)	mS/cm	0.57	0.005	1.71	2.25	0.879	0.864	1.89	0.909	1.07	1.36
Sodium Adsorption Ratio (2:1) (Calc.)	N/A	2.4	N/A	45.3	61.1	22.5	37.4	35.3	12.4	16.5	36.5
pH, 2:1 CaCl2 Extraction	pH Units		NA	7.05	6.75	7.21	6.92	6.94	7.20	7.23	7.28

Certified By:



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Certificate of Analysis

AGAT WORK ORDER: 22T858476

PROJECT: SM301760

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Adam Roemmele

SAMPLING SITE:Lundy's Lane

SAMPLED BY:MA

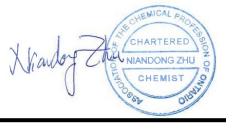
O. Reg. 153(511) - Metals & Inorganics (Soil)

DATE RECEIVED: 2022-01-28

DATE REPORTED: 2022-02-16

		SAMPLE DESCRIPTION:		BH9 SS1	BH9 SS2	BH10 SS1	BH10 SS3	BH11 SS1	BH11 SS4	BH12 SS1	BH12 SS2
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2022-01-25	2022-01-25	2022-01-27	2022-01-27	2022-01-25	2022-01-25	2022-01-24	2022-01-24
Parameter	Unit	G / S	RDL	3464992	3464993	3464995	3464996	3464998	3464999	3465001	3465002
Antimony	µg/g	1.3	0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Arsenic	µg/g	18	1	3	3	2	2	3	2	2	6
Barium	µg/g	220	2.0	25.8	31.1	18.7	20.3	23.1	20.1	19.2	106
Beryllium	µg/g	2.5	0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	1.0
Boron	µg/g	36	5	<5	<5	<5	<5	<5	<5	<5	10
Boron (Hot Water Soluble)	µg/g	NA	0.10	0.18	0.13	0.14	<0.10	0.15	<0.10	0.13	<0.10
Cadmium	µg/g	1.2	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	µg/g	70	5	8	10	5	9	6	8	6	30
Cobalt	µg/g	21	0.5	3.8	5.8	3.0	5.5	3.4	5.6	3.6	17.0
Copper	µg/g	92	1.0	9.9	13.3	9.9	8.0	10.3	8.8	11.6	29.1
Lead	µg/g	120	1	8	4	4	3	3	3	3	13
Molybdenum	µg/g	2	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.8
Nickel	µg/g	82	1	7	11	5	11	6	11	7	34
Selenium	µg/g	1.5	0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Silver	µg/g	0.5	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Thallium	µg/g	1	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Uranium	µg/g	2.5	0.50	<0.50	0.56	<0.50	<0.50	<0.50	<0.50	<0.50	0.60
Vanadium	µg/g	86	0.4	15.6	17.4	11.3	15.5	15.8	14.5	15.8	40.2
Zinc	µg/g	290	5	36	114	22	26	19	28	19	80
Chromium, Hexavalent	µg/g	0.66	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Cyanide, Free	µg/g	0.051	0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Mercury	µg/g	0.27	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Electrical Conductivity (2:1)	mS/cm	0.57	0.005	0.642	0.813	1.24	0.616	0.470	0.208	0.932	4.10
Sodium Adsorption Ratio (2:1) (Calc.)	N/A	2.4	N/A	10.4	19.9	8.93	27.9	12.4	9.29	32.6	8.81
pH, 2:1 CaCl2 Extraction	pH Units		NA	6.85	6.89	7.31	6.93	6.92	6.23	6.83	6.56

Certified By:



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Certificate of Analysis

AGAT WORK ORDER: 22T858476

PROJECT: SM301760

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Adam Roemmele

SAMPLING SITE:Lundy's Lane

SAMPLED BY:MA

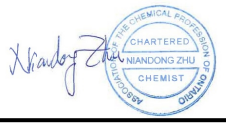
O. Reg. 153(511) - Metals & Inorganics (Soil)

DATE RECEIVED: 2022-01-28

DATE REPORTED: 2022-02-16

		SAMPLE DESCRIPTION:		BH13 SS1	BH13 SS3	BH15 SS1	BH15 SS2	BH17 SS1	BH17 SS4
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2022-01-27	2022-01-27	2022-01-27	2022-01-27	2022-01-27	2022-01-27
Parameter	Unit	G / S	RDL	3465004	3465005	3465007	3465008	3465010	3465012
Antimony	µg/g	1.3	0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Arsenic	µg/g	18	1	2	3	2	3	4	2
Barium	µg/g	220	2.0	14.0	27.4	23.2	26.4	41.3	20.7
Beryllium	µg/g	2.5	0.4	<0.4	<0.4	<0.4	<0.4	0.5	<0.4
Boron	µg/g	36	5	<5	5	<5	<5	<5	<5
Boron (Hot Water Soluble)	µg/g	NA	0.10	<0.10	<0.10	0.13	<0.10	0.13	<0.10
Cadmium	µg/g	1.2	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	µg/g	70	5	<5	9	9	13	22	17
Cobalt	µg/g	21	0.5	2.9	5.6	4.2	4.7	6.2	4.7
Copper	µg/g	92	1.0	10.1	8.4	9.7	10.4	15.8	7.9
Lead	µg/g	120	1	3	3	3	4	5	3
Molybdenum	µg/g	2	0.5	<0.5	<0.5	<0.5	0.8	1.3	1.4
Nickel	µg/g	82	1	5	11	7	12	19	15
Selenium	µg/g	1.5	0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Silver	µg/g	0.5	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Thallium	µg/g	1	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Uranium	µg/g	2.5	0.50	<0.50	<0.50	<0.50	<0.50	0.52	<0.50
Vanadium	µg/g	86	0.4	12.1	15.6	17.4	17.8	23.9	14.6
Zinc	µg/g	290	5	18	27	19	24	32	23
Chromium, Hexavalent	µg/g	0.66	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Cyanide, Free	µg/g	0.051	0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Mercury	µg/g	0.27	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Electrical Conductivity (2:1)	mS/cm	0.57	0.005	1.76	2.28	3.44	2.59	1.41	0.444
Sodium Adsorption Ratio (2:1) (Calc.)	N/A	2.4	N/A	25.6	14.2	78.2	39.7	32.9	13.1
pH, 2:1 CaCl2 Extraction	pH Units		NA	6.49	6.80	6.73	6.63	7.07	6.92

Certified By:



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Certificate of Analysis

AGAT WORK ORDER: 22T858476

PROJECT: SM301760

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Adam Roemmele

SAMPLING SITE:Lundy's Lane

SAMPLED BY:MA

O. Reg. 153(511) - Metals & Inorganics (Soil)

DATE RECEIVED: 2022-01-28

DATE REPORTED: 2022-02-16

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to O. Reg. 406/19 TABLE 1: Full Depth Background Site Condition - RPIC
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

3464953-3465012 EC was determined on the DI water extract obtained from the 2:1 leaching procedure (2 parts DI water:1 part soil). pH was determined on the 0.01M CaCl2 extract prepared at 2:1 ratio. SAR is a calculated parameter.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:

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AGAT WORK ORDER: 22T858476

PROJECT: SM301760

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Adam Roemmele

SAMPLING SITE:Lundy's Lane

SAMPLED BY:MA

O. Reg. 153(511) - PAHs (Soil)

DATE RECEIVED: 2022-01-28

DATE REPORTED: 2022-02-16

SAMPLE DESCRIPTION:				BH1 SS1	BH1 SS3	BH2 SS1	BH2 SS2	BH3 SS1	BH3 SS4	BH4 SS1	BH4 SS3
SAMPLE TYPE:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
DATE SAMPLED:				2022-01-26	2022-01-26	2022-01-26	2022-01-26	2022-01-26	2022-01-26	2022-01-26	2022-01-26
Parameter	Unit	G / S	RDL	3464953	3464970	3464971	3464972	3464974	3464976	3464977	3464979
Naphthalene	µg/g	0.09	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Acenaphthylene	µg/g	0.093	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Acenaphthene	µg/g	0.072	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Fluorene	µg/g	0.12	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Phenanthrene	µg/g	0.69	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Anthracene	µg/g	0.16	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Fluoranthene	µg/g	0.56	0.05	0.11	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Pyrene	µg/g	1	0.05	0.11	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benz(a)anthracene	µg/g	0.36	0.05	0.13	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Chrysene	µg/g	2.8	0.05	0.09	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(b)fluoranthene	µg/g	0.47	0.05	0.20	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/g	0.48	0.05	0.06	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/g	0.3	0.05	0.10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-cd)pyrene	µg/g	0.23	0.05	0.11	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibenz(a,h)anthracene	µg/g	0.1	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/g	0.68	0.05	0.10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1 and 2 Methlynaphthalene	µg/g	0.59	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Moisture Content	%		0.1	5.8	11.4	4.6	8.1	5.7	19.9	6.0	3.1
Surrogate	Unit	Acceptable Limits									
Naphthalene-d8	%	50-140		72	78	89	79	89	79	79	79
Acridine-d9	%	50-140		66	84	84	85	87	85	85	83
Terphenyl-d14	%	50-140		96	79	78	87	76	84	84	87

Certified By:

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Certificate of Analysis

AGAT WORK ORDER: 22T858476

PROJECT: SM301760

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Adam Roemmele

SAMPLING SITE:Lundy's Lane

SAMPLED BY:MA

O. Reg. 153(511) - PAHs (Soil)

DATE RECEIVED: 2022-01-28

DATE REPORTED: 2022-02-16

		SAMPLE DESCRIPTION:		BH5 SS1	BH5 SS4	BH6 SS1	BH6 SS2	BH7 SS4	BH7 SS2	BH8 SS1	BH8 SS4
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2022-01-25	2022-01-25	2022-01-27	2022-01-27	2022-01-24	2022-01-24	2022-01-25	2022-01-25
Parameter	Unit	G / S	RDL	3464980	3464981	3464983	3464984	3464986	3464987	3464989	3464990
Naphthalene	µg/g	0.09	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Acenaphthylene	µg/g	0.093	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Acenaphthene	µg/g	0.072	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Fluorene	µg/g	0.12	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Phenanthrene	µg/g	0.69	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Anthracene	µg/g	0.16	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Fluoranthene	µg/g	0.56	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Pyrene	µg/g	1	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benz(a)anthracene	µg/g	0.36	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Chrysene	µg/g	2.8	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(b)fluoranthene	µg/g	0.47	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/g	0.48	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/g	0.3	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-cd)pyrene	µg/g	0.23	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibenz(a,h)anthracene	µg/g	0.1	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/g	0.68	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1 and 2 Methlynaphthalene	µg/g	0.59	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Moisture Content	%		0.1	4.5	9.9	6.2	5.4	5.7	3.3	4.3	4.9
Surrogate	Unit	Acceptable Limits									
Naphthalene-d8	%	50-140		89	78	79	79	78	89	78	89
Acridine-d9	%	50-140		74	85	85	85	84	85	98	58
Terphenyl-d14	%	50-140		76	84	84	84	76	84	87	75

Certified By: NPopowkolof

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Certificate of Analysis

AGAT WORK ORDER: 22T858476

PROJECT: SM301760

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Adam Roemmele

SAMPLING SITE:Lundy's Lane

SAMPLED BY:MA

O. Reg. 153(511) - PAHs (Soil)

DATE RECEIVED: 2022-01-28

DATE REPORTED: 2022-02-16

		SAMPLE DESCRIPTION:		BH9 SS1	BH9 SS2	BH10 SS1	BH10 SS3	BH11 SS1	BH11 SS4	BH12 SS1	BH12 SS2
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2022-01-25	2022-01-25	2022-01-27	2022-01-27	2022-01-25	2022-01-25	2022-01-24	2022-01-24
Parameter	Unit	G / S	RDL	3464992	3464993	3464995	3464996	3464998	3464999	3465001	3465002
Naphthalene	µg/g	0.09	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Acenaphthylene	µg/g	0.093	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Acenaphthene	µg/g	0.072	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Fluorene	µg/g	0.12	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Phenanthrene	µg/g	0.69	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Anthracene	µg/g	0.16	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Fluoranthene	µg/g	0.56	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Pyrene	µg/g	1	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benz(a)anthracene	µg/g	0.36	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Chrysene	µg/g	2.8	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(b)fluoranthene	µg/g	0.47	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/g	0.48	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/g	0.3	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-cd)pyrene	µg/g	0.23	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibenz(a,h)anthracene	µg/g	0.1	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/g	0.68	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1 and 2 Methlynaphthalene	µg/g	0.59	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Moisture Content	%		0.1	5.4	8.4	4.1	7.3	3.9	6.2	4.4	17.7
Surrogate	Unit	Acceptable Limits									
Naphthalene-d8	%	50-140		89	78	89	86	76	86	79	84
Acridine-d9	%	50-140		84	85	74	87	85	87	85	75
Terphenyl-d14	%	50-140		79	78	87	84	87	85	84	89

Certified By:

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AGAT WORK ORDER: 22T858476

PROJECT: SM301760

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Adam Roemmele

SAMPLING SITE:Lundy's Lane

SAMPLED BY:MA

O. Reg. 153(511) - PAHs (Soil)

DATE RECEIVED: 2022-01-28

DATE REPORTED: 2022-02-16

		SAMPLE DESCRIPTION:		BH13 SS1	BH13 SS3	BH15 SS1	BH15 SS2	BH17 SS1	BH17 SS4
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2022-01-27	2022-01-27	2022-01-27	2022-01-27	2022-01-27	2022-01-27
Parameter	Unit	G / S	RDL	3465004	3465005	3465007	3465008	3465010	3465012
Naphthalene	µg/g	0.09	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Acenaphthylene	µg/g	0.093	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Acenaphthene	µg/g	0.072	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Fluorene	µg/g	0.12	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Phenanthrene	µg/g	0.69	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Anthracene	µg/g	0.16	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Fluoranthene	µg/g	0.56	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Pyrene	µg/g	1	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benz(a)anthracene	µg/g	0.36	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Chrysene	µg/g	2.8	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(b)fluoranthene	µg/g	0.47	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/g	0.48	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/g	0.3	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-cd)pyrene	µg/g	0.23	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibenz(a,h)anthracene	µg/g	0.1	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/g	0.68	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1 and 2 Methlynaphthalene	µg/g	0.59	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Moisture Content	%		0.1	4.5	7.1	5.5	12.6	5.8	6.4
Surrogate	Unit	Acceptable Limits							
Naphthalene-d8	%	50-140		85	85	86	84	85	85
Acridine-d9	%	50-140		84	84	87	79	84	82
Terphenyl-d14	%	50-140		78	79	85	86	79	84

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to O. Reg. 406/19 TABLE 1: Full Depth Background Site Condition - RPIC
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

3464953-3465012 Results are based on the dry weight of the soil.
Note: The result for Benzo(b)Fluoranthene is the total of the Benzo(b)&j)Fluoranthene isomers because the isomers co-elute on the GC column.
2- and 1-Methyl Naphthalene is a calculated parameter. The calculated value is the sum of 2-Methyl Naphthalene and 1-Methyl Naphthalene.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: NPopowich

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Certificate of Analysis

AGAT WORK ORDER: 22T858476

PROJECT: SM301760

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Adam Roemmele

SAMPLING SITE:Lundy's Lane

SAMPLED BY:MA

O. Reg. 153(511) - PHCs F1 - F4 (with PAHs and VOC) (Soil)

DATE RECEIVED: 2022-01-28

DATE REPORTED: 2022-02-16

		SAMPLE DESCRIPTION:		BH1 SS1	BH1 SS3	BH4 SS1	BH4 SS3	BH5 SS1	BH5 SS4	BH8 SS1	BH8 SS4
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2022-01-26	2022-01-26	2022-01-26	2022-01-26	2022-01-25	2022-01-25	2022-01-25	2022-01-25
Parameter	Unit	G / S	RDL	3464953	3464970	3464977	3464979	3464980	3464981	3464989	3464990
F1 (C6 - C10)	µg/g		5	<5	<5	<5	<5	<5	<5	<5	<5
F1 (C6 to C10) minus BTEX	µg/g	25	5	<5	<5	<5	<5	<5	<5	<5	<5
F2 (C10 to C16)	µg/g	10	10	<10	<10	<10	<10	<10	<10	<10	<10
F2 (C10 to C16) minus Naphthalene	µg/g		10	<10	<10	<10	<10	<10	<10	<10	<10
F3 (C16 to C34)	µg/g	240	50	<50	<50	<50	<50	<50	<50	<50	<50
F3 (C16 to C34) minus PAHs	µg/g	240	50	<50	<50	<50	<50	<50	<50	<50	<50
F4 (C34 to C50)	µg/g	120	50	<50	<50	<50	<50	<50	<50	<50	<50
Gravimetric Heavy Hydrocarbons	µg/g		50	NA	NA	NA	NA	NA	NA	NA	NA
Moisture Content	%		0.1	5.8	11.4	6.0	3.1	4.5	9.9	4.3	4.9
Surrogate	Unit	Acceptable Limits									
Toluene-d8	% Recovery	50-140		104	115	84	84	88	78	108	88
Terphenyl	%	60-140		105	106	98	87	90	86	82	83

		SAMPLE DESCRIPTION:		BH10 SS1	BH10 SS3	BH12 SS1	BH12 SS2	BH13 SS1	BH13 SS3	BH17 SS1	BH17 SS4
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2022-01-27	2022-01-27	2022-01-24	2022-01-24	2022-01-27	2022-01-27	2022-01-27	2022-01-27
Parameter	Unit	G / S	RDL	3464995	3464996	3465001	3465002	3465004	3465005	3465010	3465012
F1 (C6 - C10)	µg/g		5	<5	<5	<5	<5	<5	<5	<5	<5
F1 (C6 to C10) minus BTEX	µg/g	25	5	<5	<5	<5	<5	<5	<5	<5	<5
F2 (C10 to C16)	µg/g	10	10	<10	<10	<10	<10	<10	<10	<10	<10
F2 (C10 to C16) minus Naphthalene	µg/g		10	<10	<10	<10	<10	<10	<10	<10	<10
F3 (C16 to C34)	µg/g	240	50	<50	<50	<50	<50	<50	<50	<50	<50
F3 (C16 to C34) minus PAHs	µg/g	240	50	<50	<50	<50	<50	<50	<50	<50	<50
F4 (C34 to C50)	µg/g	120	50	<50	<50	<50	<50	<50	<50	<50	<50
Gravimetric Heavy Hydrocarbons	µg/g		50	NA	NA	NA	NA	NA	NA	NA	NA
Moisture Content	%		0.1	4.1	7.3	4.4	17.7	4.5	7.1	5.8	6.4
Surrogate	Unit	Acceptable Limits									
Toluene-d8	% Recovery	50-140		100	93	86	109	89	119	94	89
Terphenyl	%	60-140		83	89	79	96	78	96	81	99

Certified By: NPopowich

Results relate only to the items tested. Results apply to samples as received.

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Certificate of Analysis

AGAT WORK ORDER: 22T858476

PROJECT: SM301760

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Adam Roemmele

SAMPLING SITE:Lundy's Lane

SAMPLED BY:MA

O. Reg. 153(511) - PHCs F1 - F4 (with PAHs and VOC) (Soil)

DATE RECEIVED: 2022-01-28

DATE REPORTED: 2022-02-16

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to O. Reg. 406/19 TABLE 1: Full Depth Background Site Condition - RPIC
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

3464953-3465012 Results are based on sample dry weight.
The C6-C10 fraction is calculated using toluene response factor.
C6–C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX. The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.
The chromatogram has returned to baseline by the retention time of nC50.
Total C6 - C50 results are corrected for BTEX and PAH contributions.
C>10 – C16 (F2- Naphthalene) is a calculated parameter. The calculated value is F2 - Naphthalene.
C>16 - C34 (F3-PAH) is a calculated parameter. The calculated value is F3-PAH (PAH: sum of Phenanthrene, Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Fluoranthene, Dibenzo(a,h)anthracene, Indeno(1,2,3-c,d)pyrene and Pyrene).
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC10, nC16 and nC34 response factors are within 10% of their average.
C50 response factor is within 70% of nC10 + nC16 + nC34 average.
Linearity is within 15%.
Extraction and holding times were met for this sample.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: NPopowich

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AGAT WORK ORDER: 22T858476

PROJECT: SM301760

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Adam Roemmele

SAMPLING SITE:Lundy's Lane

SAMPLED BY:MA

O. Reg. 153(511) - PHCs F1 - F4 (with PAHs) (Soil)

DATE RECEIVED: 2022-01-28

DATE REPORTED: 2022-02-16

		SAMPLE DESCRIPTION:		BH2 SS1	BH2 SS2	BH3 SS1	BH3 SS4	BH6 SS1	BH6 SS2	BH7 SS4	BH7 SS2
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2022-01-26	2022-01-26	2022-01-26	2022-01-26	2022-01-27	2022-01-27	2022-01-24	2022-01-24
Parameter	Unit	G / S	RDL	3464971	3464972	3464974	3464976	3464983	3464984	3464986	3464987
Benzene	µg/g	0.02	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Toluene	µg/g	0.2	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylbenzene	µg/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
m & p-Xylene	µg/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
o-Xylene	µg/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Xylenes (Total)	µg/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
F1 (C6 - C10)	µg/g		5	<5	<5	<5	<5	<5	<5	<5	<5
F1 (C6 to C10) minus BTEX	µg/g	25	5	<5	<5	<5	<5	<5	<5	<5	<5
F2 (C10 to C16)	µg/g	10	10	<10	<10	<10	<10	<10	<10	<10	<10
F2 (C10 to C16) minus Naphthalene	µg/g		10	<10	<10	<10	<10	<10	<10	<10	<10
F3 (C16 to C34)	µg/g	240	50	<50	<50	<50	<50	<50	<50	<50	<50
F3 (C16 to C34) minus PAHs	µg/g	240	50	<50	<50	<50	<50	<50	<50	<50	<50
F4 (C34 to C50)	µg/g	120	50	<50	<50	<50	<50	<50	<50	<50	<50
Gravimetric Heavy Hydrocarbons	µg/g		50	NA	NA	NA	NA	NA	NA	NA	NA
Moisture Content	%		0.1	4.6	8.1	5.7	19.9	6.2	5.4	5.7	3.3
Surrogate	Unit	Acceptable Limits									
Toluene-d8	% Recovery	60-140		89	97	76	82	93	94	89	98
Terphenyl	%	60-140		89	82	95	85	78	78	76	78

Certified By:

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AGAT WORK ORDER: 22T858476

PROJECT: SM301760

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Adam Roemmele

SAMPLING SITE:Lundy's Lane

SAMPLED BY:MA

O. Reg. 153(511) - PHCs F1 - F4 (with PAHs) (Soil)

DATE RECEIVED: 2022-01-28

DATE REPORTED: 2022-02-16

		SAMPLE DESCRIPTION:		BH9 SS1	BH9 SS2	BH11 SS1	BH11 SS4	BH15 SS1	BH15 SS2
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2022-01-25	2022-01-25	2022-01-25	2022-01-25	2022-01-27	2022-01-27
Parameter	Unit	G / S	RDL	3464992	3464993	3464998	3464999	3465007	3465008
Benzene	µg/g	0.02	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Toluene	µg/g	0.2	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylbenzene	µg/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
m & p-Xylene	µg/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
o-Xylene	µg/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Xylenes (Total)	µg/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
F1 (C6 - C10)	µg/g		5	<5	<5	<5	<5	<5	<5
F1 (C6 to C10) minus BTEX	µg/g	25	5	<5	<5	<5	<5	<5	<5
F2 (C10 to C16)	µg/g	10	10	<10	<10	<10	<10	<10	<10
F2 (C10 to C16) minus Naphthalene	µg/g		10	<10	<10	<10	<10	<10	<10
F3 (C16 to C34)	µg/g	240	50	<50	<50	<50	<50	<50	<50
F3 (C16 to C34) minus PAHs	µg/g	240	50	<50	<50	<50	<50	<50	<50
F4 (C34 to C50)	µg/g	120	50	<50	<50	<50	<50	<50	<50
Gravimetric Heavy Hydrocarbons	µg/g		50	NA	NA	NA	NA	NA	NA
Moisture Content	%		0.1	5.4	8.4	3.9	6.2	5.5	12.6
Surrogate	Unit	Acceptable Limits							
Toluene-d8	% Recovery	60-140		102	104	93	98	94	91
Terphenyl	%	60-140		106	87	82	90	74	90

Certified By:

Results relate only to the items tested. Results apply to samples as received.

AGAT Laboratories

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Certificate of Analysis

AGAT WORK ORDER: 22T858476

PROJECT: SM301760

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Adam Roemmele

SAMPLING SITE:Lundy's Lane

SAMPLED BY:MA

O. Reg. 153(511) - PHCs F1 - F4 (with PAHs) (Soil)

DATE RECEIVED: 2022-01-28

DATE REPORTED: 2022-02-16

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to O. Reg. 406/19 TABLE 1: Full Depth Background Site Condition - RPIC
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

3464971-3465008 Results are based on sample dry weight.
The C6-C10 fraction is calculated using toluene response factor.
Xylenes total is a calculated parameter. The calculated value is the sum of m&p-Xylene and o-Xylene.
C6–C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX.
The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.
The chromatogram has returned to baseline by the retention time of nC50.
Total C6 - C50 results are corrected for BTEX and PAH contributions.
C>10 – C16 (F2- Naphthalene) is a calculated parameter. The calculated value is F2 - Naphthalene.
C>16 - C34 (F3-PAH) is a calculated parameter. The calculated value is F3-PAH (PAH: sum of Phenanthrene, Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Fluoranthene, Dibenzo(a,h)anthracene, Indeno(1,2,3-c,d)pyrene and Pyrene).
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC10, nC16 and nC34 response factors are within 10% of their average.
C50 response factor is within 70% of nC10 + nC16 + nC34 average.
Linearity is within 15%.
Extraction and holding times were met for this sample.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: N Popowkolof

Results relate only to the items tested. Results apply to samples as received.

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AGAT WORK ORDER: 22T858476

PROJECT: SM301760

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Adam Roemmele

SAMPLING SITE:Lundy's Lane

SAMPLED BY:MA

O. Reg. 406/19 - VOCs (Soil)

DATE RECEIVED: 2022-01-28

DATE REPORTED: 2022-02-16

SAMPLE DESCRIPTION:				BH1 SS1	BH1 SS3	BH4 SS1	BH4 SS3	BH5 SS1	BH5 SS4	BH8 SS1	BH8 SS4
SAMPLE TYPE:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
DATE SAMPLED:				2022-01-26	2022-01-26	2022-01-26	2022-01-26	2022-01-25	2022-01-25	2022-01-25	2022-01-25
Parameter	Unit	G / S	RDL	3464953	3464970	3464977	3464979	3464980	3464981	3464989	3464990
Dichlorodifluoromethane	µg/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Vinyl Chloride	ug/g	0.02	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Bromomethane	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Trichlorofluoromethane	ug/g	0.25	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Acetone	ug/g	0.5	0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethylene	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Methylene Chloride	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Trans- 1,2-Dichloroethylene	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Methyl tert-butyl Ether	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1-Dichloroethane	ug/g	0.05	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Methyl Ethyl Ketone	ug/g	0.5	0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Cis- 1,2-Dichloroethylene	ug/g	0.05	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Chloroform	ug/g	0.05	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
1,2-Dichloroethane	ug/g	0.05	0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
1,1,1-Trichloroethane	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Carbon Tetrachloride	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzene	ug/g	0.02	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
1,2-Dichloropropane	ug/g	0.05	0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Trichloroethylene	ug/g	0.05	0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Bromodichloromethane	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Methyl Isobutyl Ketone	ug/g	0.5	0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	ug/g	0.05	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Toluene	ug/g	0.2	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibromochloromethane	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylene Dibromide	ug/g	0.05	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Tetrachloroethylene	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1,1,2-Tetrachloroethane	ug/g	0.05	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Chlorobenzene	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylbenzene	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
m & p-Xylene	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

Certified By: N Popnikolof

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AGAT WORK ORDER: 22T858476

PROJECT: SM301760

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Adam Roemmele

SAMPLING SITE:Lundy's Lane

SAMPLED BY:MA

O. Reg. 406/19 - VOCs (Soil)

DATE RECEIVED: 2022-01-28

DATE REPORTED: 2022-02-16

		SAMPLE DESCRIPTION:		BH1 SS1	BH1 SS3	BH4 SS1	BH4 SS3	BH5 SS1	BH5 SS4	BH8 SS1	BH8 SS4
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2022-01-26	2022-01-26	2022-01-26	2022-01-26	2022-01-25	2022-01-25	2022-01-25	2022-01-25
Parameter	Unit	G / S	RDL	3464953	3464970	3464977	3464979	3464980	3464981	3464989	3464990
Bromoform	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Styrene	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1,2,2-Tetrachloroethane	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
o-Xylene	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,3-Dichlorobenzene	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,4-Dichlorobenzene	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,2-Dichlorobenzene	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Xylenes (Total)	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,3-Dichloropropene (Cis + Trans)	µg/g	0.05	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
n-Hexane	µg/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Surrogate	Unit	Acceptable Limits									
Toluene-d8	% Recovery	50-140		96	101	97	96	100	92	118	95
4-Bromofluorobenzene	% Recovery	50-140		85	85	85	81	93	83	83	83

Certified By:

Results relate only to the items tested. Results apply to samples as received.

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AGAT WORK ORDER: 22T858476

PROJECT: SM301760

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Adam Roemmele

SAMPLING SITE:Lundy's Lane

SAMPLED BY:MA

O. Reg. 406/19 - VOCs (Soil)

DATE RECEIVED: 2022-01-28

DATE REPORTED: 2022-02-16

SAMPLE DESCRIPTION:				BH10 SS1	BH10 SS3	BH12 SS1	BH12 SS2	BH13 SS1	BH13 SS3	BH17 SS1	BH17 SS4
SAMPLE TYPE:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
DATE SAMPLED:				2022-01-27	2022-01-27	2022-01-24	2022-01-24	2022-01-27	2022-01-27	2022-01-27	2022-01-27
Parameter	Unit	G / S	RDL	3464995	3464996	3465001	3465002	3465004	3465005	3465010	3465012
Dichlorodifluoromethane	µg/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Vinyl Chloride	ug/g	0.02	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Bromomethane	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Trichlorofluoromethane	ug/g	0.25	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Acetone	ug/g	0.5	0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethylene	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Methylene Chloride	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Trans- 1,2-Dichloroethylene	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Methyl tert-butyl Ether	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1-Dichloroethane	ug/g	0.05	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Methyl Ethyl Ketone	ug/g	0.5	0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Cis- 1,2-Dichloroethylene	ug/g	0.05	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Chloroform	ug/g	0.05	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
1,2-Dichloroethane	ug/g	0.05	0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
1,1,1-Trichloroethane	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Carbon Tetrachloride	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzene	ug/g	0.02	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
1,2-Dichloropropane	ug/g	0.05	0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Trichloroethylene	ug/g	0.05	0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Bromodichloromethane	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Methyl Isobutyl Ketone	ug/g	0.5	0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	ug/g	0.05	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Toluene	ug/g	0.2	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibromochloromethane	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylene Dibromide	ug/g	0.05	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Tetrachloroethylene	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1,1,2-Tetrachloroethane	ug/g	0.05	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Chlorobenzene	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylbenzene	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
m & p-Xylene	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

Certified By: N Popnikolof

Results relate only to the items tested. Results apply to samples as received.

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Certificate of Analysis

AGAT WORK ORDER: 22T858476

PROJECT: SM301760

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Adam Roemmele

SAMPLING SITE:Lundy's Lane

SAMPLED BY:MA

O. Reg. 406/19 - VOCs (Soil)

DATE RECEIVED: 2022-01-28

DATE REPORTED: 2022-02-16

		SAMPLE DESCRIPTION:		BH10 SS1	BH10 SS3	BH12 SS1	BH12 SS2	BH13 SS1	BH13 SS3	BH17 SS1	BH17 SS4
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2022-01-27	2022-01-27	2022-01-24	2022-01-24	2022-01-27	2022-01-27	2022-01-27	2022-01-27
Parameter	Unit	G / S	RDL	3464995	3464996	3465001	3465002	3465004	3465005	3465010	3465012
Bromoform	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Styrene	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1,2,2-Tetrachloroethane	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
o-Xylene	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,3-Dichlorobenzene	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,4-Dichlorobenzene	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,2-Dichlorobenzene	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Xylenes (Total)	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,3-Dichloropropene (Cis + Trans)	µg/g	0.05	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
n-Hexane	µg/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Surrogate	Unit	Acceptable Limits									
Toluene-d8	% Recovery	50-140		104	88	98	106	97	115	94	94
4-Bromofluorobenzene	% Recovery	50-140		94	79	101	83	92	79	82	82

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to O. Reg. 406/19 TABLE 1: Full Depth Background Site Condition - RPIC
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

3464953-3465012 The sample was analyzed using the high level technique. The sample was extracted using methanol, a small amount of the methanol extract was diluted in water and the purge & trap GC/MS analysis was performed. Results are based on the dry weight of the soil.
Xylenes total is a calculated parameter. The calculated value is the sum of m&p-Xylene + o-Xylene.
1,3-Dichloropropene total is a calculated parameter. The calculated value is the sum of Cis-1,3-Dichloropropene and Trans-1,3-Dichloropropene.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: N Popnikolof

Results relate only to the items tested. Results apply to samples as received.

AGAT Laboratories

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Exceedance Summary

AGAT WORK ORDER: 22T858476

PROJECT: SM301760

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Adam Roemmele

SAMPLEID	SAMPLE TITLE	GUIDELINE	ANALYSIS PACKAGE	PARAMETER	UNIT	GUIDEVALUE	RESULT
3464953	BH1 SS1	ON 406/19 T1 RPIC	O. Reg. 153(511) - Metals & Inorganics (Soil)	Electrical Conductivity (2:1)	mS/cm	0.57	2.31
3464953	BH1 SS1	ON 406/19 T1 RPIC	O. Reg. 153(511) - Metals & Inorganics (Soil)	Sodium Adsorption Ratio (2:1) (Calc.)	N/A	2.4	100
3464970	BH1 SS3	ON 406/19 T1 RPIC	O. Reg. 153(511) - Metals & Inorganics (Soil)	Electrical Conductivity (2:1)	mS/cm	0.57	7.44
3464970	BH1 SS3	ON 406/19 T1 RPIC	O. Reg. 153(511) - Metals & Inorganics (Soil)	Sodium Adsorption Ratio (2:1) (Calc.)	N/A	2.4	130
3464971	BH2 SS1	ON 406/19 T1 RPIC	O. Reg. 153(511) - Metals & Inorganics (Soil)	Electrical Conductivity (2:1)	mS/cm	0.57	2.19
3464971	BH2 SS1	ON 406/19 T1 RPIC	O. Reg. 153(511) - Metals & Inorganics (Soil)	Sodium Adsorption Ratio (2:1) (Calc.)	N/A	2.4	30.4
3464972	BH2 SS2	ON 406/19 T1 RPIC	O. Reg. 153(511) - Metals & Inorganics (Soil)	Electrical Conductivity (2:1)	mS/cm	0.57	2.36
3464972	BH2 SS2	ON 406/19 T1 RPIC	O. Reg. 153(511) - Metals & Inorganics (Soil)	Sodium Adsorption Ratio (2:1) (Calc.)	N/A	2.4	24.5
3464974	BH3 SS1	ON 406/19 T1 RPIC	O. Reg. 153(511) - Metals & Inorganics (Soil)	Electrical Conductivity (2:1)	mS/cm	0.57	2.93
3464974	BH3 SS1	ON 406/19 T1 RPIC	O. Reg. 153(511) - Metals & Inorganics (Soil)	Sodium Adsorption Ratio (2:1) (Calc.)	N/A	2.4	5.39
3464976	BH3 SS4	ON 406/19 T1 RPIC	O. Reg. 153(511) - Metals & Inorganics (Soil)	Electrical Conductivity (2:1)	mS/cm	0.57	4.30
3464976	BH3 SS4	ON 406/19 T1 RPIC	O. Reg. 153(511) - Metals & Inorganics (Soil)	Sodium Adsorption Ratio (2:1) (Calc.)	N/A	2.4	71.6
3464977	BH4 SS1	ON 406/19 T1 RPIC	O. Reg. 153(511) - Metals & Inorganics (Soil)	Electrical Conductivity (2:1)	mS/cm	0.57	2.12
3464977	BH4 SS1	ON 406/19 T1 RPIC	O. Reg. 153(511) - Metals & Inorganics (Soil)	Sodium Adsorption Ratio (2:1) (Calc.)	N/A	2.4	31.5
3464979	BH4 SS3	ON 406/19 T1 RPIC	O. Reg. 153(511) - Metals & Inorganics (Soil)	Electrical Conductivity (2:1)	mS/cm	0.57	0.716
3464979	BH4 SS3	ON 406/19 T1 RPIC	O. Reg. 153(511) - Metals & Inorganics (Soil)	Sodium Adsorption Ratio (2:1) (Calc.)	N/A	2.4	20.5
3464980	BH5 SS1	ON 406/19 T1 RPIC	O. Reg. 153(511) - Metals & Inorganics (Soil)	Electrical Conductivity (2:1)	mS/cm	0.57	1.71
3464980	BH5 SS1	ON 406/19 T1 RPIC	O. Reg. 153(511) - Metals & Inorganics (Soil)	Sodium Adsorption Ratio (2:1) (Calc.)	N/A	2.4	45.3
3464981	BH5 SS4	ON 406/19 T1 RPIC	O. Reg. 153(511) - Metals & Inorganics (Soil)	Electrical Conductivity (2:1)	mS/cm	0.57	2.25
3464981	BH5 SS4	ON 406/19 T1 RPIC	O. Reg. 153(511) - Metals & Inorganics (Soil)	Sodium Adsorption Ratio (2:1) (Calc.)	N/A	2.4	61.1
3464983	BH6 SS1	ON 406/19 T1 RPIC	O. Reg. 153(511) - Metals & Inorganics (Soil)	Electrical Conductivity (2:1)	mS/cm	0.57	0.879
3464983	BH6 SS1	ON 406/19 T1 RPIC	O. Reg. 153(511) - Metals & Inorganics (Soil)	Sodium Adsorption Ratio (2:1) (Calc.)	N/A	2.4	22.5
3464984	BH6 SS2	ON 406/19 T1 RPIC	O. Reg. 153(511) - Metals & Inorganics (Soil)	Electrical Conductivity (2:1)	mS/cm	0.57	0.864
3464984	BH6 SS2	ON 406/19 T1 RPIC	O. Reg. 153(511) - Metals & Inorganics (Soil)	Sodium Adsorption Ratio (2:1) (Calc.)	N/A	2.4	37.4
3464986	BH7 SS4	ON 406/19 T1 RPIC	O. Reg. 153(511) - Metals & Inorganics (Soil)	Electrical Conductivity (2:1)	mS/cm	0.57	1.89
3464986	BH7 SS4	ON 406/19 T1 RPIC	O. Reg. 153(511) - Metals & Inorganics (Soil)	Sodium Adsorption Ratio (2:1) (Calc.)	N/A	2.4	35.3
3464987	BH7 SS2	ON 406/19 T1 RPIC	O. Reg. 153(511) - Metals & Inorganics (Soil)	Electrical Conductivity (2:1)	mS/cm	0.57	0.909
3464987	BH7 SS2	ON 406/19 T1 RPIC	O. Reg. 153(511) - Metals & Inorganics (Soil)	Sodium Adsorption Ratio (2:1) (Calc.)	N/A	2.4	12.4
3464989	BH8 SS1	ON 406/19 T1 RPIC	O. Reg. 153(511) - Metals & Inorganics (Soil)	Electrical Conductivity (2:1)	mS/cm	0.57	1.07
3464989	BH8 SS1	ON 406/19 T1 RPIC	O. Reg. 153(511) - Metals & Inorganics (Soil)	Sodium Adsorption Ratio (2:1) (Calc.)	N/A	2.4	16.5
3464990	BH8 SS4	ON 406/19 T1 RPIC	O. Reg. 153(511) - Metals & Inorganics (Soil)	Electrical Conductivity (2:1)	mS/cm	0.57	1.36
3464990	BH8 SS4	ON 406/19 T1 RPIC	O. Reg. 153(511) - Metals & Inorganics (Soil)	Sodium Adsorption Ratio (2:1) (Calc.)	N/A	2.4	36.5
3464992	BH9 SS1	ON 406/19 T1 RPIC	O. Reg. 153(511) - Metals & Inorganics (Soil)	Electrical Conductivity (2:1)	mS/cm	0.57	0.642
3464992	BH9 SS1	ON 406/19 T1 RPIC	O. Reg. 153(511) - Metals & Inorganics (Soil)	Sodium Adsorption Ratio (2:1) (Calc.)	N/A	2.4	10.4
3464993	BH9 SS2	ON 406/19 T1 RPIC	O. Reg. 153(511) - Metals & Inorganics (Soil)	Electrical Conductivity (2:1)	mS/cm	0.57	0.813
3464993	BH9 SS2	ON 406/19 T1 RPIC	O. Reg. 153(511) - Metals & Inorganics (Soil)	Sodium Adsorption Ratio (2:1) (Calc.)	N/A	2.4	19.9
3464995	BH10 SS1	ON 406/19 T1 RPIC	O. Reg. 153(511) - Metals & Inorganics (Soil)	Electrical Conductivity (2:1)	mS/cm	0.57	1.24
3464995	BH10 SS1	ON 406/19 T1 RPIC	O. Reg. 153(511) - Metals & Inorganics (Soil)	Sodium Adsorption Ratio (2:1) (Calc.)	N/A	2.4	8.93
3464996	BH10 SS3	ON 406/19 T1 RPIC	O. Reg. 153(511) - Metals & Inorganics (Soil)	Electrical Conductivity (2:1)	mS/cm	0.57	0.616
3464996	BH10 SS3	ON 406/19 T1 RPIC	O. Reg. 153(511) - Metals & Inorganics (Soil)	Sodium Adsorption Ratio (2:1) (Calc.)	N/A	2.4	27.9
3464998	BH11 SS1	ON 406/19 T1 RPIC	O. Reg. 153(511) - Metals & Inorganics (Soil)	Sodium Adsorption Ratio (2:1) (Calc.)	N/A	2.4	12.4
3464999	BH11 SS4	ON 406/19 T1 RPIC	O. Reg. 153(511) - Metals & Inorganics (Soil)	Sodium Adsorption Ratio (2:1) (Calc.)	N/A	2.4	9.29
3465001	BH12 SS1	ON 406/19 T1 RPIC	O. Reg. 153(511) - Metals & Inorganics (Soil)	Electrical Conductivity (2:1)	mS/cm	0.57	0.932

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Exceedance Summary

AGAT WORK ORDER: 22T858476

PROJECT: SM301760

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Adam Roemmele

SAMPLEID	SAMPLE TITLE	GUIDELINE	ANALYSIS PACKAGE	PARAMETER	UNIT	GUIDEVALUE	RESULT
3465001	BH12 SS1	ON 406/19 T1 RPIC	O. Reg. 153(511) - Metals & Inorganics (Soil)	Sodium Adsorption Ratio (2:1) (Calc.)	N/A	2.4	32.6
3465002	BH12 SS2	ON 406/19 T1 RPIC	O. Reg. 153(511) - Metals & Inorganics (Soil)	Electrical Conductivity (2:1)	mS/cm	0.57	4.10
3465002	BH12 SS2	ON 406/19 T1 RPIC	O. Reg. 153(511) - Metals & Inorganics (Soil)	Sodium Adsorption Ratio (2:1) (Calc.)	N/A	2.4	8.81
3465004	BH13 SS1	ON 406/19 T1 RPIC	O. Reg. 153(511) - Metals & Inorganics (Soil)	Electrical Conductivity (2:1)	mS/cm	0.57	1.76
3465004	BH13 SS1	ON 406/19 T1 RPIC	O. Reg. 153(511) - Metals & Inorganics (Soil)	Sodium Adsorption Ratio (2:1) (Calc.)	N/A	2.4	25.6
3465005	BH13 SS3	ON 406/19 T1 RPIC	O. Reg. 153(511) - Metals & Inorganics (Soil)	Electrical Conductivity (2:1)	mS/cm	0.57	2.28
3465005	BH13 SS3	ON 406/19 T1 RPIC	O. Reg. 153(511) - Metals & Inorganics (Soil)	Sodium Adsorption Ratio (2:1) (Calc.)	N/A	2.4	14.2
3465007	BH15 SS1	ON 406/19 T1 RPIC	O. Reg. 153(511) - Metals & Inorganics (Soil)	Electrical Conductivity (2:1)	mS/cm	0.57	3.44
3465007	BH15 SS1	ON 406/19 T1 RPIC	O. Reg. 153(511) - Metals & Inorganics (Soil)	Sodium Adsorption Ratio (2:1) (Calc.)	N/A	2.4	78.2
3465008	BH15 SS2	ON 406/19 T1 RPIC	O. Reg. 153(511) - Metals & Inorganics (Soil)	Electrical Conductivity (2:1)	mS/cm	0.57	2.59
3465008	BH15 SS2	ON 406/19 T1 RPIC	O. Reg. 153(511) - Metals & Inorganics (Soil)	Sodium Adsorption Ratio (2:1) (Calc.)	N/A	2.4	39.7
3465010	BH17 SS1	ON 406/19 T1 RPIC	O. Reg. 153(511) - Metals & Inorganics (Soil)	Electrical Conductivity (2:1)	mS/cm	0.57	1.41
3465010	BH17 SS1	ON 406/19 T1 RPIC	O. Reg. 153(511) - Metals & Inorganics (Soil)	Sodium Adsorption Ratio (2:1) (Calc.)	N/A	2.4	32.9
3465012	BH17 SS4	ON 406/19 T1 RPIC	O. Reg. 153(511) - Metals & Inorganics (Soil)	Sodium Adsorption Ratio (2:1) (Calc.)	N/A	2.4	13.1

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Quality Assurance

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

AGAT WORK ORDER: 22T858476

PROJECT: SM301760

ATTENTION TO: Adam Roemmele

SAMPLING SITE:Lundy's Lane

SAMPLED BY:MA

Rock Analysis

RPT Date: Feb 16, 2022			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
(283-042) Sulfide (CGY)															
S	3461076	0.03	0.03	4.2%	< 0.025	96%	90%	110%							
Sulfate	3464988	0.02	0.02	1.7%	< 0.01	83%	80%	120%							

Certified By:

Jewel Shibu

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Quality Assurance

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

AGAT WORK ORDER: 22T858476

PROJECT: SM301760

ATTENTION TO: Adam Roemmele

SAMPLING SITE:Lundy's Lane

SAMPLED BY:MA

Soil Analysis

RPT Date: Feb 16, 2022			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - Metals & Inorganics (Soil)															
Antimony	3464953	3464953	<0.8	<0.8	NA	< 0.8	100%	70%	130%	101%	80%	120%	81%	70%	130%
Arsenic	3464953	3464953	3	3	NA	< 1	129%	70%	130%	109%	80%	120%	102%	70%	130%
Barium	3464953	3464953	43.4	43.7	0.7%	< 2.0	117%	70%	130%	107%	80%	120%	103%	70%	130%
Beryllium	3464953	3464953	<0.4	<0.4	NA	< 0.4	108%	70%	130%	86%	80%	120%	91%	70%	130%
Boron	3464953	3464953	6	6	NA	< 5	99%	70%	130%	100%	80%	120%	98%	70%	130%
Boron (Hot Water Soluble)	3464953	3464953	0.13	0.13	NA	< 0.10	107%	60%	140%	100%	70%	130%	110%	60%	140%
Cadmium	3464953	3464953	<0.5	<0.5	NA	< 0.5	114%	70%	130%	99%	80%	120%	108%	70%	130%
Chromium	3464953	3464953	12	12	NA	< 5	118%	70%	130%	111%	80%	120%	112%	70%	130%
Cobalt	3464953	3464953	5.5	5.3	3.7%	< 0.5	117%	70%	130%	111%	80%	120%	108%	70%	130%
Copper	3464953	3464953	11.7	11.3	3.5%	< 1.0	103%	70%	130%	115%	80%	120%	111%	70%	130%
Lead	3464953	3464953	4	4	NA	< 1	113%	70%	130%	109%	80%	120%	108%	70%	130%
Molybdenum	3464953	3464953	<0.5	<0.5	NA	< 0.5	123%	70%	130%	118%	80%	120%	113%	70%	130%
Nickel	3464953	3464953	13	12	8.0%	< 1	113%	70%	130%	108%	80%	120%	107%	70%	130%
Selenium	3464953	3464953	<0.8	<0.8	NA	< 0.8	135%	70%	130%	109%	80%	120%	109%	70%	130%
Silver	3464953	3464953	<0.5	<0.5	NA	< 0.5	113%	70%	130%	110%	80%	120%	102%	70%	130%
Thallium	3464953	3464953	<0.5	<0.5	NA	< 0.5	118%	70%	130%	105%	80%	120%	100%	70%	130%
Uranium	3464953	3464953	0.59	0.61	NA	< 0.50	118%	70%	130%	108%	80%	120%	107%	70%	130%
Vanadium	3464953	3464953	19.7	19.8	0.5%	< 0.4	121%	70%	130%	103%	80%	120%	104%	70%	130%
Zinc	3464953	3464953	29	30	3.4%	< 5	120%	70%	130%	110%	80%	120%	109%	70%	130%
Chromium, Hexavalent	3464996	3464996	<0.2	<0.2	NA	< 0.2	104%	70%	130%	90%	80%	120%	91%	70%	130%
Cyanide, Free	3464980	3464980	<0.040	<0.040	NA	< 0.040	105%	70%	130%	102%	80%	120%	101%	70%	130%
Mercury	3464953	3464953	<0.10	<0.10	NA	< 0.10	113%	70%	130%	100%	80%	120%	99%	70%	130%
Electrical Conductivity (2:1)	3464953	3464953	2.31	2.44	5.5%	< 0.005	105%	80%	120%						
Sodium Adsorption Ratio (2:1) (Calc.)	3464953	3464953	100	91.1	9.3%	NA									
pH, 2:1 CaCl2 Extraction	3464970	3464970	6.28	6.41	2.0%	NA	94%	80%	120%						

Comments: For a multi-element scan for lab control standards and matrix spikes, up to 10% of analytes may exceed the quoted limits by up to 10% absolute and it is considered acceptable.

O. Reg. 153(511) - Metals & Inorganics (Soil)															
Antimony	3465008	3465008	<0.8	<0.8	NA	< 0.8	127%	70%	130%	108%	80%	120%	91%	70%	130%
Arsenic	3465008	3465008	3	2	NA	< 1	128%	70%	130%	102%	80%	120%	103%	70%	130%
Barium	3465008	3465008	26.4	27.7	4.8%	< 2.0	109%	70%	130%	105%	80%	120%	105%	70%	130%
Beryllium	3465008	3465008	<0.4	<0.4	NA	< 0.4	95%	70%	130%	114%	80%	120%	115%	70%	130%
Boron	3465008	3465008	<5	<5	NA	< 5	92%	70%	130%	114%	80%	120%	106%	70%	130%
Boron (Hot Water Soluble)	3465008	3465008	<0.10	<0.10	NA	< 0.10	86%	60%	140%	99%	70%	130%	107%	60%	140%
Cadmium	3465008	3465008	<0.5	<0.5	NA	< 0.5	105%	70%	130%	110%	80%	120%	111%	70%	130%
Chromium	3465008	3465008	13	13	NA	< 5	115%	70%	130%	112%	80%	120%	106%	70%	130%
Cobalt	3465008	3465008	4.7	4.8	2.1%	< 0.5	117%	70%	130%	111%	80%	120%	110%	70%	130%
Copper	3465008	3465008	10.4	10.2	1.9%	< 1.0	107%	70%	130%	114%	80%	120%	109%	70%	130%

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Quality Assurance

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

AGAT WORK ORDER: 22T858476

PROJECT: SM301760

ATTENTION TO: Adam Roemmele

SAMPLING SITE:Lundy's Lane

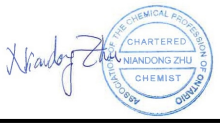
SAMPLED BY:MA

Soil Analysis (Continued)

RPT Date: Feb 16, 2022			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
Lead	3465008	3465008	4	4	NA	< 1	111%	70%	130%	111%	80%	120%	105%	70%	130%
Molybdenum	3465008	3465008	0.8	0.8	NA	< 0.5	121%	70%	130%	112%	80%	120%	113%	70%	130%
Nickel	3465008	3465008	12	12	0.0%	< 1	115%	70%	130%	112%	80%	120%	107%	70%	130%
Selenium	3465008	3465008	<0.8	<0.8	NA	< 0.8	119%	70%	130%	109%	80%	120%	108%	70%	130%
Silver	3465008	3465008	<0.5	<0.5	NA	< 0.5	107%	70%	130%	110%	80%	120%	108%	70%	130%
Thallium	3465008	3465008	<0.5	<0.5	NA	< 0.5	109%	70%	130%	103%	80%	120%	100%	70%	130%
Uranium	3465008	3465008	<0.50	<0.50	NA	< 0.50	118%	70%	130%	110%	80%	120%	106%	70%	130%
Vanadium	3465008	3465008	17.8	17.1	4.0%	< 0.4	127%	70%	130%	113%	80%	120%	112%	70%	130%
Zinc	3465008	3465008	24	32	NA	< 5	119%	70%	130%	113%	80%	120%	110%	70%	130%
Mercury	3465008	3465008	<0.10	<0.10	NA	< 0.10	114%	70%	130%	105%	80%	120%	104%	70%	130%
Sodium Adsorption Ratio (2:1) (Calc.)	3465008	3465008	39.7	40.1	1.0%	NA									
pH, 2:1 CaCl2 Extraction	3464999	3464999	6.23	6.27	0.6%	NA	99%	80%	120%						
O. Reg. 153(511) - Metals & Inorganics (Soil)															
pH, 2:1 CaCl2 Extraction	3476370		7.05	7.28	3.2%	NA	99%	80%	120%						
Corrosivity Package															
Chloride (2:1)	3464988	3464988	647	675	4.2%	< 2	94%	70%	130%	107%	80%	120%	NA	70%	130%
Sulphate (2:1)	3464988	3464988	137	137	0.0%	< 2	98%	70%	130%	102%	80%	120%	99%	70%	130%
pH (2:1)	3464988	3464988	7.89	7.93	0.5%	NA	100%	80%	120%						
Electrical Conductivity (2:1)	3464953	3464953	2.31	2.44	5.5%	< 0.005	105%	80%	120%						
Redox Potential 1	3464969						100%	90%	110%						

Comments: NA signifies Not Applicable.
pH duplicates QA acceptance criteria was met relative as stated in Table 5-15 of Analytical Protocol document.
Duplicate NA: results are under 5X the RDL and will not be calculated.
Matrix spike: Spike level < native concentration. Matrix spike acceptance limits do not apply.

Certified By:



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Quality Assurance

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT
AGAT WORK ORDER: 22T858476
PROJECT: SM301760
ATTENTION TO: Adam Roemmele
SAMPLING SITE:Lundy's Lane
SAMPLED BY:MA

Trace Organics Analysis

RPT Date: Feb 16, 2022			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - PHCs F1 - F4 (with PAHs and VOC) (Soil)															
F1 (C6 - C10)	3464996	3464996	<5	<5	NA	< 5	84%	60%	140%	91%	60%	140%	94%	60%	140%
F2 (C10 to C16)	3451889		< 10	< 10	NA	< 10	96%	60%	140%	115%	60%	140%	65%	60%	140%
F3 (C16 to C34)	3451889		< 50	< 50	NA	< 50	89%	60%	140%	117%	60%	140%	68%	60%	140%
F4 (C34 to C50)	3451889		< 50	< 50	NA	< 50	89%	60%	140%	122%	60%	140%	72%	60%	140%
O. Reg. 406/19 - VOCs (Soil)															
Dichlorodifluoromethane	3464980	3464980	<0.05	<0.05	NA	< 0.05	60%	50%	140%	81%	50%	140%	85%	50%	140%
Vinyl Chloride	3464980	3464980	<0.02	<0.02	NA	< 0.02	104%	50%	140%	109%	50%	140%	109%	50%	140%
Bromomethane	3464980	3464980	<0.05	<0.05	NA	< 0.05	80%	50%	140%	82%	50%	140%	80%	50%	140%
Trichlorofluoromethane	3464980	3464980	<0.05	<0.05	NA	< 0.05	74%	50%	140%	77%	50%	140%	92%	50%	140%
Acetone	3464980	3464980	<0.50	<0.50	NA	< 0.50	114%	50%	140%	104%	50%	140%	106%	50%	140%
1,1-Dichloroethylene	3464980	3464980	<0.05	<0.05	NA	< 0.05	77%	50%	140%	80%	60%	130%	83%	50%	140%
Methylene Chloride	3464980	3464980	<0.05	<0.05	NA	< 0.05	71%	50%	140%	74%	60%	130%	74%	50%	140%
Trans- 1,2-Dichloroethylene	3464980	3464980	<0.05	<0.05	NA	< 0.05	76%	50%	140%	84%	60%	130%	79%	50%	140%
Methyl tert-butyl Ether	3464980	3464980	<0.05	<0.05	NA	< 0.05	74%	50%	140%	77%	60%	130%	83%	50%	140%
1,1-Dichloroethane	3464980	3464980	<0.02	<0.02	NA	< 0.02	74%	50%	140%	86%	60%	130%	83%	50%	140%
Methyl Ethyl Ketone	3464980	3464980	<0.50	<0.50	NA	< 0.50	90%	50%	140%	93%	50%	140%	96%	50%	140%
Cis- 1,2-Dichloroethylene	3464980	3464980	<0.02	<0.02	NA	< 0.02	71%	50%	140%	84%	60%	130%	80%	50%	140%
Chloroform	3464980	3464980	<0.04	<0.04	NA	< 0.04	80%	50%	140%	94%	60%	130%	91%	50%	140%
1,2-Dichloroethane	3464980	3464980	<0.03	<0.03	NA	< 0.03	74%	50%	140%	85%	60%	130%	92%	50%	140%
1,1,1-Trichloroethane	3464980	3464980	<0.05	<0.05	NA	< 0.05	75%	50%	140%	85%	60%	130%	91%	50%	140%
Carbon Tetrachloride	3464980	3464980	<0.05	<0.05	NA	< 0.05	79%	50%	140%	79%	60%	130%	76%	50%	140%
Benzene	3464980	3464980	<0.02	<0.02	NA	< 0.02	73%	50%	140%	74%	60%	130%	86%	50%	140%
1,2-Dichloropropane	3464980	3464980	<0.03	<0.03	NA	< 0.03	80%	50%	140%	78%	60%	130%	81%	50%	140%
Trichloroethylene	3464980	3464980	<0.03	<0.03	NA	< 0.03	91%	50%	140%	75%	60%	130%	81%	50%	140%
Bromodichloromethane	3464980	3464980	<0.05	<0.05	NA	< 0.05	74%	50%	140%	78%	60%	130%	77%	50%	140%
Methyl Isobutyl Ketone	3464980	3464980	<0.50	<0.50	NA	< 0.50	87%	50%	140%	93%	50%	140%	102%	50%	140%
1,1,2-Trichloroethane	3464980	3464980	<0.04	<0.04	NA	< 0.04	110%	50%	140%	94%	60%	130%	100%	50%	140%
Toluene	3464980	3464980	<0.05	<0.05	NA	< 0.05	116%	50%	140%	90%	60%	130%	86%	50%	140%
Dibromochloromethane	3464980	3464980	<0.05	<0.05	NA	< 0.05	101%	50%	140%	83%	60%	130%	84%	50%	140%
Ethylene Dibromide	3464980	3464980	<0.04	<0.04	NA	< 0.04	95%	50%	140%	86%	60%	130%	92%	50%	140%
Tetrachloroethylene	3464980	3464980	<0.05	<0.05	NA	< 0.05	105%	50%	140%	80%	60%	130%	87%	50%	140%
1,1,1,2-Tetrachloroethane	3464980	3464980	<0.04	<0.04	NA	< 0.04	97%	50%	140%	88%	60%	130%	83%	50%	140%
Chlorobenzene	3464980	3464980	<0.05	<0.05	NA	< 0.05	106%	50%	140%	89%	60%	130%	84%	50%	140%
Ethylbenzene	3464980	3464980	<0.05	<0.05	NA	< 0.05	102%	50%	140%	77%	60%	130%	71%	50%	140%
m & p-Xylene	3464980	3464980	<0.05	<0.05	NA	< 0.05	106%	50%	140%	99%	60%	130%	91%	50%	140%
Bromoform	3464980	3464980	<0.05	<0.05	NA	< 0.05	104%	50%	140%	93%	60%	130%	95%	50%	140%
Styrene	3464980	3464980	<0.05	<0.05	NA	< 0.05	84%	50%	140%	71%	60%	130%	74%	50%	140%
1,1,2,2-Tetrachloroethane	3464980	3464980	<0.05	<0.05	NA	< 0.05	107%	50%	140%	102%	60%	130%	101%	50%	140%
o-Xylene	3464980	3464980	<0.05	<0.05	NA	< 0.05	117%	50%	140%	90%	60%	130%	84%	50%	140%

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Quality Assurance

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

AGAT WORK ORDER: 22T858476

PROJECT: SM301760

ATTENTION TO: Adam Roemmele

SAMPLING SITE:Lundy's Lane

SAMPLED BY:MA

Trace Organics Analysis (Continued)

RPT Date: Feb 16, 2022			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
1,3-Dichlorobenzene	3464980	3464980	<0.05	<0.05	NA	< 0.05	96%	50%	140%	99%	60%	130%	93%	50%	140%
1,4-Dichlorobenzene	3464980	3464980	<0.05	<0.05	NA	< 0.05	105%	50%	140%	99%	60%	130%	92%	50%	140%
1,2-Dichlorobenzene	3464980	3464980	<0.05	<0.05	NA	< 0.05	104%	50%	140%	89%	60%	130%	89%	50%	140%
n-Hexane	3464980	3464980	<0.05	<0.05	NA	< 0.05	108%	50%	140%	98%	60%	130%	99%	50%	140%

Comments: When the average of the sample and duplicate results is less than 5x the RDL, the Relative Percent Difference (RPD) will be indicated as Not Applicable (NA).

O. Reg. 153(511) - PHCs F1 - F4 (with PAHs and VOC) (Soil)															
F1 (C6 - C10)	3599992		21	21	NA	< 5	88%	60%	140%	95%	60%	140%	97%	60%	140%
O. Reg. 153(511) - PHCs F1 - F4 (with PAHs) (Soil)															
Benzene	3464971		NA	NA	NA	< 0.02	86%	60%	140%	97%	60%	140%	NA	60%	140%
Toluene	3464971		NA	NA	NA	< 0.05	91%	60%	140%	96%	60%	140%	NA	60%	140%
Ethylbenzene	3464971		NA	NA	NA	< 0.05	94%	60%	140%	91%	60%	140%	NA	60%	140%
m & p-Xylene	3464971		NA	NA	NA	< 0.05	90%	60%	140%	100%	60%	140%	NA	60%	140%
o-Xylene	3464971		NA	NA	NA	< 0.05	108%	60%	140%	94%	60%	140%	NA	60%	140%
F1 (C6 - C10)	3464971		NA	NA	NA	< 5	99%	60%	140%	NA	60%	140%	NA	60%	140%

Certified By: N Popnikolof

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QC Exceedance

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

AGAT WORK ORDER: 22T858476

PROJECT: SM301760

ATTENTION TO: Adam Roemmele

RPT Date: Feb 16, 2022

PARAMETER	Sample Id	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
		Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
			Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - Metals & Inorganics (Soil)										
Selenium	3464953	135%	70%	130%	109%	80%	120%	109%	70%	130%

Comments: For a multi-element scan for lab control standards and matrix spikes, up to 10% of analytes may exceed the quoted limits by up to 10% absolute and it is considered acceptable.

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Method Summary

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

AGAT WORK ORDER: 22T858476

PROJECT: SM301760

ATTENTION TO: Adam Roemmele

SAMPLING SITE:Lundy's Lane

SAMPLED BY:MA

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Rock Analysis			
Sulfide			N/A

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Method Summary

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

AGAT WORK ORDER: 22T858476

PROJECT: SM301760

ATTENTION TO: Adam Roemmele

SAMPLING SITE:Lundy's Lane

SAMPLED BY:MA

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Soil Analysis			
Chloride (2:1)	INOR-93-6004	modified from SM 4110 B	ION CHROMATOGRAPH
Sulphate (2:1)	INOR-93-6004	modified from SM 4110 B	ION CHROMATOGRAPH
pH (2:1)	INOR 93-6031	modified from EPA 9045D and MCKEAGUE 3.11	PH METER
Electrical Conductivity (2:1)	INOR-93-6036	modified from MSA PART 3, CH 14 and SM 2510 B	EC METER
Resistivity (2:1) (Calculated)	INOR-93-6036	McKeague 4.12, SM 2510 B,SSA #5 Part 3	CALCULATION
Redox Potential 1	INOR-93-6066	G200-20, SM 2580 B	REDOX POTENTIAL ELECTRODE
Redox Potential 2	INOR-93-6066	G200-20, SM 2580 B	REDOX POTENTIAL ELECTRODE
Redox Potential 3	INOR-93-6066	G200-20, SM 2580 B	REDOX POTENTIAL ELECTRODE
Antimony	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Arsenic	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Barium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Beryllium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Boron	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Boron (Hot Water Soluble)	MET-93-6104	modified from EPA 6010D and MSA PART 3, CH 21	ICP/OES
Cadmium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Chromium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Cobalt	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Copper	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Lead	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Molybdenum	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Nickel	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Selenium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Silver	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Thallium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Uranium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Vanadium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Zinc	MET 93 -6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Chromium, Hexavalent	INOR-93-6068	modified from EPA 3060 and EPA 7196	SPECTROPHOTOMETER
Cyanide, Free	INOR-93-6052	modified from ON MOECC E3015, SM 4500-CN- I, G-387	TECHNICON AUTO ANALYZER
Mercury	MET-93-6103	modified from EPA 7471B and SM 3112 B	ICP-MS

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Method Summary

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

AGAT WORK ORDER: 22T858476

PROJECT: SM301760

ATTENTION TO: Adam Roemmele

SAMPLING SITE:Lundy's Lane

SAMPLED BY:MA

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Sodium Adsorption Ratio (2:1) (Calc.)	INOR-93-6007	modified from EPA 6010D & Analytical Protocol	ICP/OES
pH, 2:1 CaCl2 Extraction	INOR-93-6031	modified from EPA 9045D and MCKEAGUE 3.11	PH METER

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Method Summary

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

AGAT WORK ORDER: 22T858476

PROJECT: SM301760

ATTENTION TO: Adam Roemmele

SAMPLING SITE:Lundy's Lane

SAMPLED BY:MA

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Naphthalene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Acenaphthylene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Acenaphthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Fluorene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Phenanthrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Anthracene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Fluoranthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Pyrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benz(a)anthracene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Chrysene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(b)fluoranthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(k)fluoranthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(a)pyrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Indeno(1,2,3-cd)pyrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Dibenz(a,h)anthracene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(g,h,i)perylene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
1 and 2 Methlynaphthalene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Naphthalene-d8	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Acridine-d9	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Terphenyl-d14	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Moisture Content	VOL-91-5009	CCME Tier 1 Method	BALANCE
F1 (C6 - C10)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/FID
F1 (C6 to C10) minus BTEX	VOL-91-5009	modified from CCME Tier 1 Method	P&T GC/FID
Toluene-d8	VOL-91-5009	modified from EPA SW-846 5030C & 8260D	(P&T)GC/MS
F2 (C10 to C16)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F2 (C10 to C16) minus Naphthalene	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34) minus PAHs	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F4 (C34 to C50)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
Gravimetric Heavy Hydrocarbons	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Terphenyl	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
Benzene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Toluene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS

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Method Summary

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

AGAT WORK ORDER: 22T858476

PROJECT: SM301760

ATTENTION TO: Adam Roemmele

SAMPLING SITE:Lundy's Lane

SAMPLED BY:MA

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Ethylbenzene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
m & p-Xylene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
o-Xylene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Xylenes (Total)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Dichlorodifluoromethane	VOL-91-5002	EPA SW-846 5035 & 8260D	(P&T)GC/MS
Vinyl Chloride	VOL-91-5002	EPA SW-846 5035 & 8260D	(P&T)GC/MS
Bromomethane	VOL-91-5002	EPA SW-846 5035 & 8260D	(P&T)GC/MS
Trichlorofluoromethane	VOL-91-5002	EPA SW-846 5035 & 8260D	(P&T)GC/MS
Acetone	VOL-91-5002	EPA SW-846 5035 & 8260D	(P&T)GC/MS
1,1-Dichloroethylene	VOL-91-5002	EPA SW-846 5035 & 8260D	(P&T)GC/MS
Methylene Chloride	VOL-91-5002	EPA SW-846 5035 & 8260D	(P&T)GC/MS
Trans- 1,2-Dichloroethylene	VOL-91-5002	EPA SW-846 5035 & 8260D	(P&T)GC/MS
Methyl tert-butyl Ether	VOL-91-5002	EPA SW-846 5035 & 8260D	(P&T)GC/MS
1,1-Dichloroethane	VOL-91-5002	EPA SW-846 5035 & 8260D	(P&T)GC/MS
Methyl Ethyl Ketone	VOL-91-5002	EPA SW-846 5035 & 8260D	(P&T)GC/MS
Cis- 1,2-Dichloroethylene	VOL-91-5002	EPA SW-846 5035 & 8260D	(P&T)GC/MS
Chloroform	VOL-91-5002	EPA SW-846 5035 & 8260D	(P&T)GC/MS
1,2-Dichloroethane	VOL-91-5002	EPA SW-846 5035 & 8260D	(P&T)GC/MS
1,1,1-Trichloroethane	VOL-91-5002	EPA SW-846 5035 & 8260D	(P&T)GC/MS
Carbon Tetrachloride	VOL-91-5002	EPA SW-846 5035 & 8260D	(P&T)GC/MS
Benzene	VOL-91-5002	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
1,2-Dichloropropane	VOL-91-5002	EPA SW-846 5035 & 8260D	(P&T)GC/MS
Trichloroethylene	VOL-91-5002	EPA SW-846 5035 & 8260D	(P&T)GC/MS
Bromodichloromethane	VOL-91-5002	EPA SW-846 5035 & 8260D	(P&T)GC/MS
Methyl Isobutyl Ketone	VOL-91-5002	EPA SW-846 5035 & 8260D	(P&T)GC/MS
1,1,2-Trichloroethane	VOL-91-5002	EPA SW-846 5035 & 8260D	(P&T)GC/MS
Toluene	VOL-91-5002	EPA SW-846 5035 & 8260D	(P&T)GC/MS
Dibromochloromethane	VOL-91-5002	EPA SW-846 5035 & 8260D	(P&T)GC/MS
Ethylene Dibromide	VOL-91-5002	EPA SW-846 5035 & 8260D	(P&T)GC/MS
Tetrachloroethylene	VOL-91-5002	EPA SW-846 5035 & 8260D	(P&T)GC/MS
1,1,1,2-Tetrachloroethane	VOL-91-5002	EPA SW-846 5035 & 8260D	(P&T)GC/MS
Chlorobenzene	VOL-91-5002	EPA SW-846 5035 & 8260D	(P&T)GC/MS
Ethylbenzene	VOL-91-5002	EPA SW-846 5035 & 8260D	(P&T)GC/MS
m & p-Xylene	VOL-91-5002	EPA SW-846 5035 & 8260D	(P&T)GC/MS
Bromoform	VOL-91-5002	EPA SW-846 5035 & 8260D	(P&T)GC/MS
Styrene	VOL-91-5002	EPA SW-846 5035 & 8260D	(P&T)GC/MS
1,1,2,2-Tetrachloroethane	VOL-91-5002	EPA SW-846 5035 & 8260D	(P&T)GC/MS
o-Xylene	VOL-91-5002	EPA SW-846 5035 & 8260D	(P&T)GC/MS
1,3-Dichlorobenzene	VOL-91-5002	EPA SW-846 5035 & 8260D	(P&T)GC/MS
1,4-Dichlorobenzene	VOL-91-5002	EPA SW-846 5035 & 8260D	(P&T)GC/MS
1,2-Dichlorobenzene	VOL-91-5002	EPA SW-846 5035 & 8260D	(P&T)GC/MS
Xylenes (Total)	VOL-91-5002	EPA SW-846 5035 & 8260D	(P&T)GC/MS
1,3-Dichloropropene (Cis + Trans)	VOL-91-5002	EPA SW-846 5035 & 8260D	(P&T)GC/MS
n-Hexane	VOL-91-5002	EPA SW-846 5035 & 8260D	(P&T)GC/MS
Toluene-d8	VOL-91-5002	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
4-Bromofluorobenzene	VOL-91-5002	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS

Results relate only to the items tested. Results apply to samples as received.

3 COOLERS

AGAT Laboratories
5835 Coopers Avenue
Mississauga, Ontario L4Z 1Y2
Ph: 905.712.5100 Fax: 905.712.5122
webearth.agatlabs.com

Chain of Custody Record

If this is a Drinking Water sample, please use Drinking Water Chain of Custody Form (potable water consumed by humans)

Report Information:

Company: Soil-Mat
Contact: Adam Roemmele
Address:
Phone: Fax:
Reports to be sent to:
1. Email: aroemmele@soil-mat.ca
2. Email: Maccettone@soil-mat.ca

Project Information:

Project: SM301760
Site Location: Lundy's Lane
Sampled By: MA
AGAT Quote #: 441598 PO:
Please note: if quotation number is not provided, client will be billed full price for analysis.

Invoice Information:

Bill To Same: Yes ☐ No ☐
Company:
Contact:
Address:
Email:

Regulatory Requirements:

(Please check all applicable boxes)

☐ Regulation 153/04
Table (Indicate One) ☐ Ind/Com ☐ Res/Park ☐ Agriculture
Soil Texture (Check One) ☐ Coarse ☐ Fine

☑ Excess Soils R406
Table 1RPI/ICC (Indicate One)
☐ Regulation 558
☐ CCME

☐ Sewer Use ☐ Sanitary ☐ Storm
(Region)
☐ Prov. Water Quality Objectives (PWQO)
☐ Other
(Indicate One)

Is this submission for a Record of Site Condition? ☐ Yes ☐ No

Report Guideline on *Certificate of Analysis* ☐ Yes ☐ No

Sample Matrix Legend

B	Biota
GW	Ground Water
O	Oil
P	Paint
S	Soil
SD	Sediment
SW	Surface Water

Laboratory Use Only

Work Order #: 22T858476.
Cooler Quantity:
Arrival Temperatures: 2.1 1.9 2.5 1.8 1.5 1.7
Custody Seal Intact: ☐ Yes ☐ No ☐ N/A
Notes: FREE ICE

Turnaround Time (TAT) Required:

Regular TAT ☑ 5 to 7 Business Days
Rush TAT (Rush Surcharges Apply)
☐ 3 Business Days ☐ 2 Business Days ☐ Next Business Day
OR Date Required (Rush Surcharges May Apply):
Please provide prior notification for rush TAT
**TAT is exclusive of weekends and statutory holidays*
For 'Same Day' analysis, please contact your AGAT CPM

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI, DOC Y/N	O. Reg 153: Metals & Inorganics	O. Reg 153: Metals - ☐ CrVI, ☐ Hg, ☐ HWSB	O. Reg 153: BTEX, F1-F4 PHCs Analyze F4G if required ☐ Yes ☐ No	O. Reg 153: PAHs	O. Reg 153: PCBs	O. Reg 153: VOC	O. Reg 558: Landfill Disposal Characterization TCLP: ☑ M&I ☐ VOCs ☐ ABNs ☑ B(a)P ☐ PCBs	O. Reg 406: Excess Soils SPLP Rainwater Leach SPLP: ☐ Metals ☐ VOCs ☐ SVOCs	O. Reg 406: Excess Soils Characterization Package pH, ICPMS Metals, BTEX, F1-F4	Salt - EC/SAR	Corrosivity	Potentially Hazardous or High Concentration (Y/N)
BH1 SS1	26 Jan 2022	am	4	s			☑		☑	☑		☑						
BH1 SS2	26 Jan 2022	am	1	s													☑	
BH1 SS3	26 Jan 2022	am	4	s			☑		☑	☑		☑						
BH2 SS1	25 Jan 2022	am	4	s			☑		☑	☑								
BH2 SS2	25 Jan 2022	am	4	s			☑		☑	☑								
BH2 SS4	25 Jan 2022	am	1	s													☑	
BH3 SS1	26 Jan 2022	am	4	s			☑		☑	☑								
BH3 SS3	26 Jan 2022	am	1	s													☑	
BH3 SS4	26 Jan 2022	am	4	s			☑		☑	☑								

Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
Stephen Dhanraj	01/28/22	21:30 PM	Stephen Dhanraj	01/28/22	7:55 PM
Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time

Page 1 of 5
N°:

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AGAT Laboratories
5835 Coopers Avenue
Mississauga, Ontario L4Z 1Y2
Ph: 905.712.5100 Fax: 905.712.5122
webearth.agatlabs.com

Chain of Custody Record

If this is a Drinking Water sample, please use Drinking Water Chain of Custody Form (potable water consumed by humans)

Report Information:

Company: Soil-Mat
Contact: Adam Roemmele
Address:
Phone: Fax:
Reports to be sent to:
1. Email: aroemmele@soil-mat.ca
2. Email: Maccettone@soil-mat.ca

Project Information:

Project: SM301760
Site Location: Lundy's Lane
Sampled By: MA
AGAT Quote #: 441598 PO:
Please note: If quotation number is not provided, client will be billed full price for analysis.

Invoice Information:

Bill To Same: Yes ☐ No ☐
Company:
Contact:
Address:
Email:

Regulatory Requirements:

(Please check all applicable boxes)

☐ Regulation 153/04
Table (Indicate One) ☐ Ind/Com ☐ Res/Park ☐ Agriculture
Soil Texture (Check One) ☐ Coarse ☐ Fine

☑ Excess Soils R406
Table 1RPI/ICC (Indicate One)
☐ Regulation 558
☐ CCME

☐ Sewer Use ☐ Sanitary ☐ Storm
(Region)
☐ Prov. Water Quality Objectives (PWQO)
☐ Other
(Indicate One)

Is this submission for a Record of Site Condition? ☐ Yes ☐ No

Report Guideline on *Certificate of Analysis* ☐ Yes ☐ No

Sample Matrix Legend

B	Biota
GW	Ground Water
O	Oil
P	Paint
S	Soil
SD	Sediment
SW	Surface Water

Laboratory Use Only

Work Order #:
Cooler Quantity:
Arrival Temperatures: 2.1 | 1.9 | 2.5 | 1.8 | 1.5 | 1.7
Custody Seal Intact: ☐ Yes ☐ No ☐ N/A
Notes: FASE TUE

Turnaround Time (TAT) Required:

Regular TAT ☑ 5 to 7 Business Days
Rush TAT (Rush Surcharges Apply)
☐ 3 Business Days ☐ 2 Business Days ☐ Next Business Day
OR Date Required (Rush Surcharges May Apply):
Please provide prior notification for rush TAT
**TAT is exclusive of weekends and statutory holidays*
For 'Same Day' analysis, please contact your AGAT CPM

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI, DOC (Y/N)	O. Reg 153: Metals & Inorganics	Metals - ☐ CrVI, ☐ Hg, ☐ HWSB	BTEX, F1-F4 PHCs Analyze F4G if required ☐ Yes ☐ No	PAHs	PCBs	VOC	O. Reg 558: Landfill Disposal Characterization TCLP: ☑ M&I ☐ VOCs ☐ ABNs ☑ B(a)P ☐ PCBs	O. Reg 406: Excess Soils SPLP Rainwater Leach SPLP: ☐ Metals ☐ VOCs ☐ SVOCs	Excess Soils Characterization Package pH, ICPMS Metals, BTEX, F1-F4	Salt - EC/SAR	Corrosivity	Potentially Hazardous or High Concentration (Y/N)
BH 4 SS1	26 Jan 2022	pm	4	s			☑		☑	☑		☑						
BH4 SS2	26 Jan 2022	pm	1	s													☑	
BH4 SS3	26 Jan 2022	pm	4	s			☑		☑	☑		☑						
BH5 SS1	25 Jan 2022	pm	4	s			☑		☑	☑		☑						
BH5 SS4	25 Jan 2022	pm	4	s			☑		☑	☑		☑						
BH5 SS3	25 Jan 2022	pm	1	s													☑	
BH6 SS1	27 Jan 2022	pm	4	s			☑		☑	☑								
BH6 SS2	27 Jan 2022	pm	4	s			☑		☑	☑								
BH6 SS4	27 Jan 2022	pm	1	s													☑	

Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
			Steve Dhuna	01/28/22	1:50 pm
Steve Dhuna	01/28/22	4:50 pm			

Page 2 of 5

N#:

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AGAT Laboratories
5835 Coopers Avenue
Mississauga, Ontario L4Z 1Y2
Ph: 905.712.5100 Fax: 905.712.5122
webearth.agatlabs.com

Chain of Custody Record

If this is a Drinking Water sample, please use Drinking Water Chain of Custody Form (potable water consumed by humans)

Report Information:

Company: Soil-Mat
Contact: Adam Roemmele
Address:
Phone: Fax:
Reports to be sent to:
1. Email: aroemmele@soil-mat.ca
2. Email: Maccettone@soil-mat.ca

Project Information:

Project: SM301760
Site Location: Lundy's Lane
Sampled By: MA
AGAT Quote #: 141598 PO:
Please note: If quotation number is not provided, client will be billed full price for analysis.

Invoice Information:

Bill To Same: Yes ☐ No ☐
Company:
Contact:
Address:
Email:

Regulatory Requirements:

(Please check all applicable boxes)

☐ Regulation 153/04
Table _____ *Indicate One*
☐ Ind/Com
☐ Res/Park
☐ Agriculture
Soil Texture *(Check One)*
☐ Coarse
☐ Fine

☑ Excess Soils R406
Table 1RPI/ICC *Indicate One*
☐ Regulation 558
☐ CCME

☐ Sewer Use
☐ Sanitary ☐ Storm
_____ *Region*
☐ Prov. Water Quality Objectives (PWQO)
☐ Other
_____ *Indicate One*

Is this submission for a **Record of Site Condition?** ☐ Yes ☐ No

Report Guideline on *Certificate of Analysis* ☐ Yes ☐ No

Sample Matrix Legend

B	Biota
GW	Ground Water
O	Oil
P	Paint
S	Soil
SD	Sediment
SW	Surface Water

Laboratory Use Only

Work Order #:
Cooler Quantity:
Arrival Temperatures: 21 | 19 | 2.5 / 1.8 | 15 | 1.7
Custody Seal Intact: ☐Yes ☐No ☐N/A
Notes:

Turnaround Time (TAT) Required:

Regular TAT ☑ 5 to 7 Business Days
Rush TAT (Rush Surcharges Apply)
☐ 3 Business Days ☐ 2 Business Days ☐ Next Business Day
OR Date Required (Rush Surcharges May Apply):
Please provide prior notification for rush TAT
**TAT is exclusive of weekends and statutory holidays*

For 'Same Day' analysis, please contact your AGAT CPM

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI, DOC Y/N	O. Reg 153: Metals & Inorganics	O. Reg 153: Metals - ☐ CrVI, ☐ Hg, ☐ HWSB	O. Reg 153: BTEX, F1-F4 PHCs Analyze F4G if required ☐ Yes ☐ No	O. Reg 153: PAHs	O. Reg 153: PCBs	O. Reg 153: VOC	O. Reg 558: Landfill Disposal Characterization TCLP: ☑ M&I ☐ VOCs ☐ ABNs ☑ B(a)P ☐ PCBs	O. Reg 406: Excess Soils SPLP Rainwater Leach SPLP: ☐ Metals ☐ VOCs ☐ SVOCs	O. Reg 406: Excess Soils Characterization Package pH, ICPMS Metals, BTEX, F1-F4	Salt - EC/SAR	Corrosivity	Potentially Hazardous or High Concentration (Y/N)
BH7 SS1	24 Jan 2022	am AM PM	4	s			☑		☑	☑								
BH7 SS2	24 Jan 2022	am AM PM	1	s													☑	
BH7 SS3	24 Jan 2022	am AM PM	4	s			☑		☑	☑								
BH8 SS1	25 Jan 2022	pm AM PM	4	s			☑		☑	☑		☑						
BH8 SS4	25 Jan 2022	pm AM PM	4	s			☑		☑	☑		☑						
BH8 SS3	25 Jan 2022	pm AM PM	1	s			☑		☑	☑							☑	
BH9 SS1	25 Jan 2022	pm AM PM	4	s			☑		☑	☑								
BH9 SS2	25 Jan 2022	pm AM PM	4	s													☑	
BH9 SS3	25 Jan 2022	pm AM PM	1	s														
		AM PM																
		AM PM																

Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
Stephen Dhenin	01/28/22	4:30pm	Stephen Dhenin	01/28/22	1:55pm
Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time

Page 3 of 5
N°:

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AGAT Laboratories
5835 Coopers Avenue
Mississauga, Ontario L4Z 1Y2
Ph: 905.712.5100 Fax: 905.712.5122
webearth.agatlabs.com

Chain of Custody Record

If this is a Drinking Water sample, please use Drinking Water Chain of Custody Form (potable water consumed by humans)

Report Information:

Company: Soil-Mat
Contact: Adam Roemmele
Address:
Phone: Fax:
Reports to be sent to:
1. Email: aroemmele@soil-mat.ca
2. Email: Maccettone@soil-mat.ca

Project Information:

Project: SM301760
Site Location: Lundy's Lane
Sampled By: MA
AGAT Quote #: 441598 PO:
Please note: If quotation number is not provided, client will be billed full price for analysis.

Invoice Information:

Bill To Same: Yes ☐ No ☐
Company:
Contact:
Address:
Email:

Regulatory Requirements:

(Please check all applicable boxes)

☐ Regulation 153/04
Table — *Indicate One*: ☐ Ind/Com ☐ Res/Park ☐ Agriculture
Soil Texture *(Check One)*: ☐ Coarse ☐ Fine

☑ Excess Soils R406
Table 1RPI/ICC — *Indicate One*

☐ Regulation 558

☐ CCME

☐ Sewer Use ☐ Sanitary ☐ Storm
Region

☐ Prov. Water Quality Objectives (PWQO)

☐ Other
Indicate One

Is this submission for a Record of Site Condition? ☐ Yes ☐ No

Report Guideline on *Certificate of Analysis* ☐ Yes ☐ No

Sample Matrix Legend

B	Biota
GW	Ground Water
O	Oil
P	Paint
S	Soil
SD	Sediment
SW	Surface Water

Laboratory Use Only

Work Order #:
Cooler Quantity: 2
Arrival Temperatures: 1.9 | 2.5 | 1.8 | 1.5 | 1.7
Custody Seal Intact: ☐ Yes ☐ No ☐ N/A
Notes:

Turnaround Time (TAT) Required:

Regular TAT ☑ 5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)

☐ 3 Business Days ☐ 2 Business Days ☐ Next Business Day

OR Date Required (Rush Surcharges May Apply):

Please provide prior notification for rush TAT
**TAT is exclusive of weekends and statutory holidays*

For 'Same Day' analysis, please contact your AGAT CPM

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI, DOC (Y/N)	O. Reg 153: Metals & Inorganics	O. Reg 153: Metals - ☐ CrVI, ☐ Hg, ☐ HWSB	O. Reg 153: BTEX, F1-F4 PHCs; Analyze F4G if required ☐ Yes ☐ No	O. Reg 153: PAHs	O. Reg 153: PCBs	O. Reg 153: VOC	O. Reg 558: Landfill Disposal Characterization TCLP: ☑ M&I ☐ VOCs ☐ ABNs ☑ B(a)P ☐ PCBs	O. Reg 406: Excess Soils SPLP Rainwater Leach SPLP: ☐ Metals ☐ VOCs ☐ SVOCs	O. Reg 406: Excess Soils Characterization Package pH, ICPMS Metals, BTEX, F1-F4	Salt - EC/SAR	Corrosivity	Potentially Hazardous or High Concentration (Y/N)
BH10 SS1	27 Jan 2022	pm AM PM	4	s			☑		☑	☑		☑						
BH10 SS3	27 Jan 2022	pm AM PM	4	s			☑		☑	☑		☑						
BH10 SS4	27 Jan 2022	pm AM PM	1	s													☑	
BH11 SS1	25 Jan 2022	am AM PM		s			☑		☑	☑								
BH11 SS4	25 Jan 2022	am AM PM		s			☑		☑	☑								
BH11 SS3	25 Jan 2022	am AM PM		s													☑	
BH12 SS1	24 Jan 2022	AM PM		s			☑		☑	☑		☑						
BH12 SS2	24 Jan 2022	AM PM		s			☑		☑	☑		☑						
BH12 SS3	24 Jan 2022	AM PM		s													☑	
		AM PM																
		AM PM																

Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
Steven D'Amore	01/28/22	11:30 pm	Steven D'Amore	01/28/22	1:53 pm
Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time

Page 4 of 5
No:

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AGAT Laboratories
5835 Coopers Avenue
Mississauga, Ontario L4Z 1Y2
Ph: 905.712.5100 Fax: 905.712.5122
webearth.agatlabs.com

Chain of Custody Record

If this is a Drinking Water sample, please use Drinking Water Chain of Custody Form (potable water consumed by humans)

Report Information:

Company: Soil-Mat
Contact: Adam Roemmele
Address:
Phone: Fax:
Reports to be sent to:
1. Email: aroemmele@soil-mat.ca
2. Email: Maccettone@soil-mat.ca

Project Information:

Project: SM301760
Site Location: Lundy's Lane
Sampled By: MA
AGAT Quote #: 441598 PO:
Please note: If quotation number is not provided, client will be billed full price for analysis.

Invoice Information:

Bill To Same: Yes ☐ No ☐
Company:
Contact:
Address:
Email:

Regulatory Requirements:

(Please check all applicable boxes)

☐ Regulation 153/04
Table _____ *Indicate One*
☐ Ind/Com
☐ Res/Park
☐ Agriculture
Soil Texture *(Check One)*
☐ Coarse
☐ Fine

☑ Excess Soils R406
Table 1RPI/ICC *Indicate One*

☐ Regulation 558

☐ CCME

☐ Sewer Use
☐ Sanitary ☐ Storm
_____ *Region*

☐ Prov. Water Quality Objectives (PWQO)

☐ Other
_____ *Indicate One*

Is this submission for a **Record of Site Condition?** ☐ Yes ☐ No

Report Guideline on *Certificate of Analysis* ☐ Yes ☐ No

Sample Matrix Legend

B	Biota
GW	Ground Water
O	Oil
P	Paint
S	Soil
SD	Sediment
SW	Surface Water

Laboratory Use Only

Work Order #:
Cooler Quantity:
Arrival Temperatures: 2.1 | 1.9 | 2.5 | 1.5 | 1.7
Custody Seal Intact: ☐Yes ☐No ☐N/A
Notes:

Turnaround Time (TAT) Required:

Regular TAT ☑ 5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)

☐ 3 Business Days ☐ 2 Business Days ☐ Next Business Day

OR Date Required (Rush Surcharges May Apply):

Please provide prior notification for rush TAT
**TAT is exclusive of weekends and statutory holidays*

For 'Same Day' analysis, please contact your AGAT CPM

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI, DOC Y/N	O. Reg 153: Metals & Inorganics	O. Reg 153: Metals - ☐ CrVI, ☐ Hg, ☐ HWSB	O. Reg 153: BTEX, F1-F4 PHCs, Analyze F4G if required ☐ Yes ☐ No	O. Reg 153: PAHs	O. Reg 153: PCBs	O. Reg 153: VOC	O. Reg 558: Landfill Disposal Characterization TCLP: ☑ M&I ☐ VOCs ☐ ABNs ☑ B(a)P ☐ PCBs	O. Reg 406: Excess Soils SPLP Rainwater Leach ☐ Metals ☐ VOCs ☐ SVOCs	O. Reg 406: Excess Soils Characterization Package pH, ICPMS Metals, BTEX, F1-F4	Salt - EC/SAR	Corrosivity	Potentially Hazardous or High Concentration Y/N
BH13 SS1	27 Jan 2022	pm AM PM	4	s			☑		☑	☑		☑						
BH13 SS3	27 Jan 2022	pm AM PM	4	s			☑		☑	☑		☑						
BH13 SS4	27 Jan 2022	pm AM PM	1	s													☑	
BH15 SS1	27 Jan 2022	am AM PM	4	s			☑		☑	☑								
BH15 SS2	27 Jan 2022	am AM PM	4	s			☑		☑	☑								
BH15 SS4	27 Jan 2022	am AM PM	1	s													☑	
BH17 SS1	27 Jan 2022	am AM PM	4	s			☑		☑	☑		☑						
BH17 SS3	27 Jan 2022	am AM PM		s													☑	
BH17 SS3	27 Jan 2022	am AM PM		s			☑		☑	☑		☑						
		AM PM																
		AM PM																

Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
Stephen D'Herman	01/28/22	4:30pm	Stephen D'Herman	01/28/22	1:55pm
Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time

Page 5 of 5

N°:

Pink Copy - Client I Yellow Copy - AGAT I White Copy- AGAT

AGAT Laboratories

Sample Temperature Log

Client: SOIL-MAT

COC# or Work Order #: 22T858476

of Coolers: 4

of Submissions:

	Arrival Temperatures - Branch/Driver	Arrival Temperatures - Laboratory
Cooler #1:	6.4 / 6.1 / 6.7	3.7 / 3.3 / 3.6
Cooler #2:	2.8 / 2.5 / 3.1	2.0 / 2.3 / 2.7 (Rush)
Cooler #3:	2.1 / 1.9 / 2.5	1.8 / 1.5 / 1.7
Cooler #4:	7.5 / 7.6 / 7.8	3.8 / 4.1 / 3.5
Cooler #5:	/ /	/ /
Cooler #6:	/ /	/ /
Cooler #7:	/ /	/ /
Cooler #8	/ /	/ /
Cooler #9:	/ /	/ /
Cooler #10:	/ /	/ /
IR Gun ID:		
Taken By:	Shyla Thammo	
Date (yyyy/mm/dd):	01/28/22 Time: 1 : 58 AM / PM	(yyyy/mm/dd): Time: : AM / PM

Instructions for use of this form: 1) complete all fields of info including total # of coolers and # of submissions rec'd, 2) photocopy and place in each submission prior to giving a WO#, 3) Proceed as normal, write the WO# and scan (please make sure to scan along with the COC)

AGAT Laboratories

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CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT
130 LANCING DRIVE
HAMILTON, ON L8W3A1
(905) 318-7440

ATTENTION TO: Adam Roemmele

PROJECT: SM301760

AGAT WORK ORDER: 22T860034

ROCK ANALYSIS REVIEWED BY: Jewel Shibu, Lab Supervisor

SOIL ANALYSIS REVIEWED BY: Amanjot Bhela, Inorganic Lab Manager

TRACE ORGANICS REVIEWED BY: Neli Popnikolova, Senior Chemist

DATE REPORTED: Feb 28, 2022

PAGES (INCLUDING COVER): 25

VERSION*: 3

Should you require any information regarding this analysis please contact your client services representative at (403) 735-2005

*Notes

VERSION 3:Version 3 supersedes work order 22T860034 Version 2, issued February 24, 2022. Complete.
VERSION 2:February 24, 2022 - Update for Sample ID BH14 SS4 (3477923) - TCLP VOCs, TCLP Metals and Bulk PCBs.
VERSION 1:February 10, 2022 - partial (excluding Sulphide)

Disclaimer:

- All work conducted herein has been done using accepted standard protocols, and generally accepted practices and methods. AGAT test methods may incorporate modifications from the specified reference methods to improve performance.
- All samples will be disposed of within 30 days after receipt unless a Long Term Storage Agreement is signed and returned. Some specialty analysis may be exempt, please contact your Client Project Manager for details.
- AGAT's liability in connection with any delay, performance or non-performance of these services is only to the Client and does not extend to any other third party. Unless expressly agreed otherwise in writing, AGAT's liability is limited to the actual cost of the specific analysis or analyses included in the services.
- This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
- The test results reported herewith relate only to the samples as received by the laboratory.
- Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, warranties of merchantability, fitness for a particular purpose, or non-infringement. AGAT assumes no responsibility for any errors or omissions in the guidelines contained in this document.
- All reportable information as specified by ISO/IEC 17025:2017 is available from AGAT Laboratories upon request.

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Western Enviro-Agricultural Laboratory Association (WEALA)
Environmental Services Association of Alberta (ESAA)

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Certificate of Analysis

AGAT WORK ORDER: 22T860034

PROJECT: SM301760

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Adam Roemmele

SAMPLING SITE:Lundy's Lane

SAMPLED BY:MA

O. Reg. 153(511) - Metals & Inorganics (Soil)

DATE RECEIVED: 2022-02-02

DATE REPORTED: 2022-02-28

		SAMPLE DESCRIPTION:		BH14 SS1	BH14 SS4	BH16 SS1	BH16 SS3	BH18 SS1	BH18 SS3
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2022-02-01	2022-02-01	2022-02-01	2022-02-01	2022-02-01	2022-02-01
Parameter	Unit	G / S	RDL	3477909	3477923	3477926	3477927	3477932	3477937
Antimony	µg/g	1.3	0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Arsenic	µg/g	18	1	3	2	3	2	2	3
Barium	µg/g	220	2.0	32.5	23.4	25.3	20.0	11.8	23.5
Beryllium	µg/g	2.5	0.4	0.5	<0.4	<0.4	<0.4	<0.4	<0.4
Boron	µg/g	36	5	5	6	<5	<5	<5	<5
Boron (Hot Water Soluble)	µg/g	NA	0.10	0.15	<0.10	0.11	<0.10	<0.10	<0.10
Cadmium	µg/g	1.2	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	µg/g	70	5	9	9	7	7	8	9
Cobalt	µg/g	21	0.5	4.6	4.5	3.7	4.3	4.1	4.6
Copper	µg/g	92	1.0	13.1	7.4	11.7	6.7	8.1	9.3
Lead	µg/g	120	1	10	3	5	3	3	3
Molybdenum	µg/g	2	0.5	0.6	<0.5	<0.5	<0.5	<0.5	<0.5
Nickel	µg/g	82	1	8	8	7	8	9	9
Selenium	µg/g	1.5	0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Silver	µg/g	0.5	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Thallium	µg/g	1	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Uranium	µg/g	2.5	0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Vanadium	µg/g	86	0.4	18.4	15.0	15.2	13.7	13.5	15.7
Zinc	µg/g	290	5	32	21	21	21	20	23
Chromium, Hexavalent	µg/g	0.66	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Cyanide, Free	µg/g	0.051	0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Mercury	µg/g	0.27	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Electrical Conductivity (2:1)	mS/cm	0.57	0.005	0.689	0.351	0.451	0.754	0.566	0.271
Sodium Adsorption Ratio (2:1) (Calc.)	N/A	2.4	N/A	12.7	13.7	13.2	7.16	6.85	6.44
pH, 2:1 CaCl2 Extraction	pH Units		NA	7.55	6.88	7.21	7.21	6.15	7.04

Certified By:



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Certificate of Analysis

AGAT WORK ORDER: 22T860034

PROJECT: SM301760

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Adam Roemmele

SAMPLING SITE:Lundy's Lane

SAMPLED BY:MA

O. Reg. 153(511) - Metals & Inorganics (Soil)

DATE RECEIVED: 2022-02-02

DATE REPORTED: 2022-02-28

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 1: Full Depth Background Site Condition Standards - Soil - Residential/Parkland/Institutional/Industrial/Commercial/Community Property Use
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

3477909-3477937 EC was determined on the DI water extract obtained from the 2:1 leaching procedure (2 parts DI water:1 part soil). pH was determined on the 0.01M CaCl2 extract prepared at 2:1 ratio. SAR is a calculated parameter.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:

Amanjot Bhela

ASSOCIATION OF THE CHEMICAL PROFESSION OF ONTARIO
CHARTERED
AMANJOT BHELA
CHEMIST

Results relate only to the items tested. Results apply to samples as received.

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Certificate of Analysis

AGAT WORK ORDER: 22T860034
PROJECT: SM301760

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Adam Roemmele

SAMPLING SITE:Lundy's Lane

SAMPLED BY:MA

O. Reg. 558 Metals

DATE RECEIVED: 2022-02-02

DATE REPORTED: 2022-02-28

		SAMPLE DESCRIPTION:		BH14 SS4
		SAMPLE TYPE:		Soil
		DATE SAMPLED:		2022-02-01
Parameter	Unit	G / S	RDL	3477923
Arsenic Leachate	mg/L	2.5	0.010	<0.010
Barium Leachate	mg/L	100	0.010	0.295
Boron Leachate	mg/L	500	0.050	0.055
Cadmium Leachate	mg/L	0.5	0.010	<0.010
Chromium Leachate	mg/L	5	0.050	<0.050
Lead Leachate	mg/L	5	0.010	<0.010
Mercury Leachate	mg/L	0.1	0.01	<0.01
Selenium Leachate	mg/L	1	0.010	<0.010
Silver Leachate	mg/L	5	0.010	<0.010
Uranium Leachate	mg/L	10	0.050	<0.050

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to O. Reg. 558 - Schedule IV Leachate Quality Criteria
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:

Amanjot Bhela

ASSOCIATION OF THE CHEMICAL PROFESSION OF ONTARIO
CHARTERED
AMANJOT BHELA
CHEMIST

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AGAT WORK ORDER: 22T860034

PROJECT: SM301760

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Adam Roemmele

SAMPLING SITE:Lundy's Lane

SAMPLED BY:MA

O. Reg. 153(511) - PAHs (Soil)

DATE RECEIVED: 2022-02-02

DATE REPORTED: 2022-02-28

		SAMPLE DESCRIPTION:		BH14 SS1	BH14 SS4	BH16 SS1	BH16 SS3	BH18 SS1	BH18 SS3
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2022-02-01	2022-02-01	2022-02-01	2022-02-01	2022-02-01	2022-02-01
Parameter	Unit	G / S	RDL	3477909	3477923	3477926	3477927	3477932	3477937
Naphthalene	µg/g	0.09	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Acenaphthylene	µg/g	0.093	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Acenaphthene	µg/g	0.072	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Fluorene	µg/g	0.12	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Phenanthrene	µg/g	0.69	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Anthracene	µg/g	0.16	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Fluoranthene	µg/g	0.56	0.05	<0.05	<0.05	0.15	<0.05	<0.05	<0.05
Pyrene	µg/g	1	0.05	<0.05	<0.05	0.16	<0.05	<0.05	<0.05
Benz(a)anthracene	µg/g	0.36	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Chrysene	µg/g	2.8	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(b)fluoranthene	µg/g	0.47	0.05	<0.05	<0.05	0.11	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/g	0.48	0.05	<0.05	<0.05	0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/g	0.3	0.05	<0.05	<0.05	0.07	<0.05	<0.05	<0.05
Indeno(1,2,3-cd)pyrene	µg/g	0.46	0.05	<0.05	<0.05	0.05	<0.05	<0.05	<0.05
Dibenz(a,h)anthracene	µg/g	0.1	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/g	0.68	0.05	<0.05	<0.05	0.08	<0.05	<0.05	<0.05
1 and 2 Methlynaphthalene	µg/g	0.59	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Moisture Content	%		0.1	7.9	5.1	7.8	9.3	12.4	10.5
Surrogate	Unit	Acceptable Limits							
Naphthalene-d8	%	50-140		86	84	101	84	84	89
Acridine-d9	%	50-140		87	79	65	79	79	89
Terphenyl-d14	%	50-140		85	85	118	85	86	84

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 1: Full Depth Background Site Condition Standards - Soil - Residential/Parkland/Institutional/Industrial/Commercial/Community Property Use
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

3477909-3477937 Results are based on the dry weight of the soil.
Note: The result for Benzo(b)Fluoranthene is the total of the Benzo(b)&j)Fluoranthene isomers because the isomers co-elute on the GC column.
2- and 1-Methyl Naphthalene is a calculated parameter. The calculated value is the sum of 2-Methyl Naphthalene and 1-Methyl Naphthalene.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: NPopowkolof

Results relate only to the items tested. Results apply to samples as received.

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AGAT WORK ORDER: 22T860034

PROJECT: SM301760

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Adam Roemmele

SAMPLING SITE:Lundy's Lane

SAMPLED BY:MA

O. Reg. 153(511) - PCBs (Soil)

DATE RECEIVED: 2022-02-02

DATE REPORTED: 2022-02-28

		SAMPLE DESCRIPTION:		BH14 SS4
		SAMPLE TYPE:		Soil
		DATE SAMPLED:		2022-02-01
Parameter	Unit	G / S	RDL	3477923
Polychlorinated Biphenyls	µg/g	0.3	0.1	<0.1
Moisture Content	%		0.1	6.1
wet weight PCB	g		0.01	10.21
Surrogate	Unit	Acceptable Limits		
Decachlorobiphenyl	%	50-140		88

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 1: Full Depth Background Site Condition Standards - Soil - Residential/Parkland/Institutional/Industrial/Commercial/Community Property Use
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

3477923 Results are based on the dry weight of soil extracted.
PCB total is a calculated parameter. The calculated value is the sum of Aroclor 1242, Aroclor 1248, Aroclor 1254 and Aroclor 1260. The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: N Popowkolof

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Certificate of Analysis

AGAT WORK ORDER: 22T860034
PROJECT: SM301760

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Adam Roemmele

SAMPLING SITE:Lundy's Lane

SAMPLED BY:MA

O. Reg. 153(511) - PHCs F1 - F4 (with PAHs and VOC) (Soil)

DATE RECEIVED: 2022-02-02

DATE REPORTED: 2022-02-28

		SAMPLE DESCRIPTION:		BH14 SS1	BH14 SS4	BH16 SS1	BH16 SS3	BH18 SS1	BH18 SS3
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2022-02-01	2022-02-01	2022-02-01	2022-02-01	2022-02-01	2022-02-01
Parameter	Unit	G / S	RDL	3477909	3477923	3477926	3477927	3477932	3477937
F1 (C6 - C10)	µg/g	25	5	<5	<5	<5	<5	<5	<5
F1 (C6 to C10) minus BTEX	µg/g	25	5	<5	<5	<5	<5	<5	<5
F2 (C10 to C16)	µg/g	10	10	<10	<10	<10	<10	<10	<10
F2 (C10 to C16) minus Naphthalene	µg/g		10	<10	<10	<10	<10	<10	<10
F3 (C16 to C34)	µg/g	240	50	<50	<50	<50	<50	<50	<50
F3 (C16 to C34) minus PAHs	µg/g		50	<50	<50	<50	<50	<50	<50
F4 (C34 to C50)	µg/g	120	50	<50	<50	<50	<50	<50	<50
Gravimetric Heavy Hydrocarbons	µg/g	120	50	NA	NA	NA	NA	NA	NA
Moisture Content	%		0.1	7.9	5.1	7.8	9.3	12.4	10.5
Surrogate	Unit	Acceptable Limits							
Toluene-d8	% Recovery	50-140		98	88	81	98	83	97
Terphenyl	%	60-140		91	105	104	103	116	113

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 1: Full Depth Background Site Condition Standards - Soil - Residential/Parkland/Institutional/Industrial/Commercial/Community Property Use
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

3477909-3477937 Results are based on sample dry weight.
The C6-C10 fraction is calculated using toluene response factor.
C6–C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX. The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.
The chromatogram has returned to baseline by the retention time of nC50.
Total C6 - C50 results are corrected for BTEX and PAH contributions.
C>10 – C16 (F2- Naphthalene) is a calculated parameter. The calculated value is F2 - Naphthalene.
C>16 - C34 (F3-PAH) is a calculated parameter. The calculated value is F3-PAH (PAH: sum of Phenanthrene, Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Fluoranthene, Dibenzo(a,h)anthracene, Indeno(1,2,3-c,d)pyrene and Pyrene).
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC10, nC16 and nC34 response factors are within 10% of their average.
C50 response factor is within 70% of nC10 + nC16 + nC34 average.
Linearity is within 15%.
Extraction and holding times were met for this sample.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: N Popowich

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Certificate of Analysis

AGAT WORK ORDER: 22T860034
PROJECT: SM301760

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Adam Roemmele

SAMPLING SITE:Lundy's Lane

SAMPLED BY:MA

O. Reg. 153(511) - VOCs (Soil)

DATE RECEIVED: 2022-02-02

DATE REPORTED: 2022-02-28

SAMPLE DESCRIPTION:				BH14 SS1	BH14 SS4	BH16 SS1	BH16 SS3	BH18 SS1	BH18 SS3
SAMPLE TYPE:				Soil	Soil	Soil	Soil	Soil	Soil
DATE SAMPLED:				2022-02-01	2022-02-01	2022-02-01	2022-02-01	2022-02-01	2022-02-01
Parameter	Unit	G / S	RDL	3477909	3477923	3477926	3477927	3477932	3477937
Dichlorodifluoromethane	µg/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Vinyl Chloride	ug/g	0.02	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Bromomethane	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Trichlorofluoromethane	ug/g	0.25	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Acetone	ug/g	0.5	0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethylene	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Methylene Chloride	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Trans- 1,2-Dichloroethylene	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Methyl tert-butyl Ether	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1-Dichloroethane	ug/g	0.05	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Methyl Ethyl Ketone	ug/g	0.5	0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Cis- 1,2-Dichloroethylene	ug/g	0.05	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Chloroform	ug/g	0.05	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
1,2-Dichloroethane	ug/g	0.05	0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
1,1,1-Trichloroethane	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Carbon Tetrachloride	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzene	ug/g	0.02	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
1,2-Dichloropropane	ug/g	0.05	0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Trichloroethylene	ug/g	0.05	0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Bromodichloromethane	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Methyl Isobutyl Ketone	ug/g	0.5	0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	ug/g	0.05	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Toluene	ug/g	0.2	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibromochloromethane	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylene Dibromide	ug/g	0.05	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Tetrachloroethylene	ug/g	0.05	0.05	<0.05	0.22	<0.05	<0.05	<0.05	<0.05
1,1,1,2-Tetrachloroethane	ug/g	0.05	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Chlorobenzene	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylbenzene	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
m & p-Xylene	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

Certified By: N Popnikolof

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Certificate of Analysis

AGAT WORK ORDER: 22T860034

PROJECT: SM301760

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Adam Roemmele

SAMPLING SITE:Lundy's Lane

SAMPLED BY:MA

O. Reg. 153(511) - VOCs (Soil)

DATE RECEIVED: 2022-02-02

DATE REPORTED: 2022-02-28

		SAMPLE DESCRIPTION:		BH14 SS1	BH14 SS4	BH16 SS1	BH16 SS3	BH18 SS1	BH18 SS3
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2022-02-01	2022-02-01	2022-02-01	2022-02-01	2022-02-01	2022-02-01
Parameter	Unit	G / S	RDL	3477909	3477923	3477926	3477927	3477932	3477937
Bromoform	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Styrene	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1,2,2-Tetrachloroethane	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
o-Xylene	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,3-Dichlorobenzene	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,4-Dichlorobenzene	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,2-Dichlorobenzene	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Xylenes (Total)	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,3-Dichloropropene (Cis + Trans)	µg/g	0.05	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
n-Hexane	µg/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Moisture Content	%		0.1	7.9	5.1	7.8	9.3	12.4	10.5
Surrogate	Unit	Acceptable Limits							
Toluene-d8	% Recovery	50-140		101	104	100	102	102	116
4-Bromofluorobenzene	% Recovery	50-140		83	76	83	82	80	79

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 1: Full Depth Background Site Condition Standards - Soil - Residential/Parkland/Institutional/Industrial/Commercial/Community Property Use
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

3477909-3477937 The sample was analyzed using the high level technique. The sample was extracted using methanol, a small amount of the methanol extract was diluted in water and the purge & trap GC/MS analysis was performed. Results are based on the dry weight of the soil.
Xylenes total is a calculated parameter. The calculated value is the sum of m&p-Xylene + o-Xylene.
1,3-Dichloropropene total is a calculated parameter. The calculated value is the sum of Cis-1,3-Dichloropropene and Trans-1,3-Dichloropropene.
The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: NPopowkolof

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Certificate of Analysis

AGAT WORK ORDER: 22T860034
PROJECT: SM301760

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Adam Roemmele

SAMPLING SITE:Lundy's Lane

SAMPLED BY:MA

O. Reg. 558 - VOCs

DATE RECEIVED: 2022-02-02

DATE REPORTED: 2022-02-28

		SAMPLE DESCRIPTION:		BH14 SS4
		SAMPLE TYPE:		Soil
		DATE SAMPLED:		2022-02-01
Parameter	Unit	G / S	RDL	3477923
Vinyl Chloride Leachate	mg/L	0.2	0.030	<0.030
1,1 Dichloroethene Leachate	mg/L	1.4	0.020	<0.020
Dichloromethane Leachate	mg/L	5.0	0.030	<0.030
Methyl Ethyl Ketone Leachate	mg/L	200	0.090	<0.090
Chloroform Leachate	mg/L	10.0	0.020	<0.020
1,2-Dichloroethane Leachate	mg/L	0.5	0.020	<0.020
Carbon Tetrachloride Leachate	mg/L	0.5	0.020	<0.020
Benzene Leachate	mg/L	0.5	0.020	<0.020
Trichloroethene Leachate	mg/L	5.0	0.020	<0.020
Tetrachloroethene Leachate	mg/L	3.0	0.050	<0.050
Chlorobenzene Leachate	mg/L	8.0	0.010	<0.010
1,2-Dichlorobenzene Leachate	mg/L	20.0	0.010	<0.010
1,4-Dichlorobenzene Leachate	mg/L	0.5	0.010	<0.010
Surrogate	Unit	Acceptable Limits		
Toluene-d8	% Recovery	50-140		100
4-Bromofluorobenzene	% Recovery	50-140		80

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to O. Reg. 558 - Schedule IV Leachate Quality Criteria
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

3477923 Sample was prepared using Regulation 558 protocol and a zero headspace extractor.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: N Popowich

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Exceedance Summary

AGAT WORK ORDER: 22T860034

PROJECT: SM301760

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Adam Roemmele

SAMPLEID	SAMPLE TITLE	GUIDELINE	ANALYSIS PACKAGE	PARAMETER	UNIT	GUIDEVALUE	RESULT
3477909	BH14 SS1	ON T1 S RPI/ICC	O. Reg. 153(511) - Metals & Inorganics (Soil)	Electrical Conductivity (2:1)	mS/cm	0.57	0.689
3477909	BH14 SS1	ON T1 S RPI/ICC	O. Reg. 153(511) - Metals & Inorganics (Soil)	Sodium Adsorption Ratio (2:1) (Calc.)	N/A	2.4	12.7
3477923	BH14 SS4	ON T1 S RPI/ICC	O. Reg. 153(511) - Metals & Inorganics (Soil)	Sodium Adsorption Ratio (2:1) (Calc.)	N/A	2.4	13.7
3477923	BH14 SS4	ON T1 S RPI/ICC	O. Reg. 153(511) - VOCs (Soil)	Tetrachloroethylene	ug/g	0.05	0.22
3477926	BH16 SS1	ON T1 S RPI/ICC	O. Reg. 153(511) - Metals & Inorganics (Soil)	Sodium Adsorption Ratio (2:1) (Calc.)	N/A	2.4	13.2
3477927	BH16 SS3	ON T1 S RPI/ICC	O. Reg. 153(511) - Metals & Inorganics (Soil)	Electrical Conductivity (2:1)	mS/cm	0.57	0.754
3477927	BH16 SS3	ON T1 S RPI/ICC	O. Reg. 153(511) - Metals & Inorganics (Soil)	Sodium Adsorption Ratio (2:1) (Calc.)	N/A	2.4	7.16
3477932	BH18 SS1	ON T1 S RPI/ICC	O. Reg. 153(511) - Metals & Inorganics (Soil)	Sodium Adsorption Ratio (2:1) (Calc.)	N/A	2.4	6.85
3477937	BH18 SS3	ON T1 S RPI/ICC	O. Reg. 153(511) - Metals & Inorganics (Soil)	Sodium Adsorption Ratio (2:1) (Calc.)	N/A	2.4	6.44

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Quality Assurance

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

AGAT WORK ORDER: 22T860034

PROJECT: SM301760

ATTENTION TO: Adam Roemmele

SAMPLING SITE:Lundy's Lane

SAMPLED BY:MA

Rock Analysis

RPT Date: Feb 28, 2022			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
(283-042) Sulfide (CGY)															
Total Sulfur		3479285	0.03	0.03	0.2%	< 0.01	92%	90%	110%						
Sulfate		3528797	0.01	0.01	NA	< 0.01	89%	80%	120%						

Certified By:

Jewel Shibu

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Quality Assurance

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

AGAT WORK ORDER: 22T860034

PROJECT: SM301760

ATTENTION TO: Adam Roemmele

SAMPLING SITE:Lundy's Lane

SAMPLED BY:MA

Soil Analysis

RPT Date: Feb 28, 2022			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - Metals & Inorganics (Soil)															
Antimony	3477370		<0.8	<0.8	NA	< 0.8	112%	70%	130%	98%	80%	120%	96%	70%	130%
Arsenic	3477370		4	4	NA	< 1	117%	70%	130%	98%	80%	120%	101%	70%	130%
Barium	3477370		117	117	0.0%	< 2.0	106%	70%	130%	104%	80%	120%	106%	70%	130%
Beryllium	3477370		1.1	1.1	NA	< 0.4	123%	70%	130%	114%	80%	120%	128%	70%	130%
Boron	3477370		12	12	NA	< 5	99%	70%	130%	119%	80%	120%	110%	70%	130%
Boron (Hot Water Soluble)	3483669		0.37	0.40	NA	< 0.10	94%	60%	140%	100%	70%	130%	103%	60%	140%
Cadmium	3477370		<0.5	<0.5	NA	< 0.5	90%	70%	130%	100%	80%	120%	103%	70%	130%
Chromium	3477370		29	30	3.4%	< 5	103%	70%	130%	107%	80%	120%	101%	70%	130%
Cobalt	3477370		11.7	12.1	3.4%	< 0.5	103%	70%	130%	109%	80%	120%	111%	70%	130%
Copper	3477370		19.9	20.8	4.4%	< 1.0	99%	70%	130%	108%	80%	120%	114%	70%	130%
Lead	3477370		15	16	6.5%	< 1	105%	70%	130%	110%	80%	120%	107%	70%	130%
Molybdenum	3477370		<0.5	<0.5	NA	< 0.5	106%	70%	130%	107%	80%	120%	109%	70%	130%
Nickel	3477370		24	24	0.0%	< 1	100%	70%	130%	106%	80%	120%	110%	70%	130%
Selenium	3477370		<0.8	<0.8	NA	< 0.8	110%	70%	130%	100%	80%	120%	106%	70%	130%
Silver	3477370		<0.5	<0.5	NA	< 0.5	101%	70%	130%	104%	80%	120%	99%	70%	130%
Thallium	3477370		<0.5	<0.5	NA	< 0.5	107%	70%	130%	102%	80%	120%	97%	70%	130%
Uranium	3477370		0.88	0.89	NA	< 0.50	110%	70%	130%	101%	80%	120%	102%	70%	130%
Vanadium	3477370		41.4	44.1	6.3%	< 0.4	111%	70%	130%	105%	80%	120%	118%	70%	130%
Zinc	3477370		71	73	2.8%	< 5	107%	70%	130%	107%	80%	120%	121%	70%	130%
Chromium, Hexavalent	3491020	3477932	<0.2	<0.2	NA	< 0.2	95%	70%	130%	105%	80%	120%	103%	70%	130%
Cyanide, Free	3477923	3477923	<0.040	<0.040	NA	< 0.040	104%	70%	130%	92%	80%	120%	110%	70%	130%
Mercury	3477370		<0.10	<0.10	NA	< 0.10	111%	70%	130%	100%	80%	120%	98%	70%	130%
Electrical Conductivity (2:1)	3478882	3477909	0.055	0.048	13.6%	< 0.005	93%	80%	120%						
Sodium Adsorption Ratio (2:1) (Calc.)	3477909	3477909	12.7	11.8	7.3%	NA									
pH, 2:1 CaCl2 Extraction	3476306		6.85	7.02	2.5%	NA	98%	80%	120%						

Comments: NA signifies Not Applicable.
pH duplicates QA acceptance criteria was met relative as stated in Table 5-15 of Analytical Protocol document.
Duplicate NA: results are under 5X the RDL and will not be calculated.

O. Reg. 153(511) - Metals & Inorganics (Soil)															
pH, 2:1 CaCl2 Extraction	3477932	3477932	6.15	6.20	0.8%	NA	99%	80%	120%						

Comments: NA signifies Not Applicable.
pH duplicates QA acceptance criteria was met relative as stated in Table 5-15 of Analytical Protocol document.

Corrosivity Package															
Chloride (2:1)	3477929	3477929	385	388	0.8%	< 2	95%	70%	130%	105%	80%	120%	NA	70%	130%
Sulphate (2:1)	3477929	3477929	14	15	6.9%	< 2	99%	70%	130%	105%	80%	120%	102%	70%	130%
pH (2:1)	3478882		5.98	5.56	7.3%	NA	100%	80%	120%						
Electrical Conductivity (2:1)	3478882		0.055	0.048	13.6%	< 0.005	93%	80%	120%						
Redox Potential 1	3477941						100%	90%	110%						

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Quality Assurance

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

AGAT WORK ORDER: 22T860034

PROJECT: SM301760

ATTENTION TO: Adam Roemmele

SAMPLING SITE:Lundy's Lane

SAMPLED BY:MA

Soil Analysis (Continued)

RPT Date: Feb 28, 2022			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 558 Metals															
Arsenic Leachate	3506967		<0.010	<0.010	NA	< 0.010	104%	70%	130%	120%	80%	120%	120%	70%	130%
Barium Leachate	3506967		0.544	0.533	2.0%	< 0.010	102%	70%	130%	112%	80%	120%	110%	70%	130%
Boron Leachate	3506967		0.153	0.148	NA	< 0.050	106%	70%	130%	113%	80%	120%	102%	70%	130%
Cadmium Leachate	3506967		<0.010	<0.010	NA	< 0.010	100%	70%	130%	99%	80%	120%	98%	70%	130%
Chromium Leachate	3506967		<0.050	<0.050	NA	< 0.050	105%	70%	130%	120%	80%	120%	109%	70%	130%
Lead Leachate	3506967		0.010	0.011	NA	< 0.010	100%	70%	130%	107%	80%	120%	99%	70%	130%
Mercury Leachate	3506967		<0.01	<0.01	NA	< 0.01	92%	70%	130%	87%	80%	120%	94%	70%	130%
Selenium Leachate	3506967		<0.010	<0.010	NA	< 0.010	106%	70%	130%	113%	80%	120%	115%	70%	130%
Silver Leachate	3506967		<0.010	<0.010	NA	< 0.010	99%	70%	130%	106%	80%	120%	91%	70%	130%
Uranium Leachate	3506967		<0.050	<0.050	NA	< 0.050	99%	70%	130%	112%	80%	120%	114%	70%	130%

Comments: NA signifies Not Applicable.
pH duplicates QA acceptance criteria was met relative as stated in Table 5-15 of Analytical Protocol document.

Comments: NA signifies Not Applicable.
Duplicate NA: results are under 5X the RDL and will not be calculated.

Certified By:



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AGAT Laboratories

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TEL (403)735-2005
FAX (403)735-2771
http://www.agatlabs.com

Quality Assurance

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

AGAT WORK ORDER: 22T860034

PROJECT: SM301760

ATTENTION TO: Adam Roemmele

SAMPLING SITE:Lundy's Lane

SAMPLED BY:MA

Trace Organics Analysis

RPT Date: Feb 28, 2022			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - PHCs F1 - F4 (with PAHs and VOC) (Soil)															
F1 (C6 - C10)	3477932	3477932	<5	<5	NA	< 5	110%	60%	140%	107%	60%	140%	90%	60%	140%
F2 (C10 to C16)	3451889		< 10	< 10	NA	< 10	96%	60%	140%	115%	60%	140%	65%	60%	140%
F3 (C16 to C34)	3451889		< 50	< 50	NA	< 50	89%	60%	140%	117%	60%	140%	68%	60%	140%
F4 (C34 to C50)	3451889		< 50	< 50	NA	< 50	89%	60%	140%	122%	60%	140%	72%	60%	140%
O. Reg. 153(511) - PAHs (Soil)															
Naphthalene	3478879		<0.05	<0.05	NA	< 0.05	103%	50%	140%	76%	50%	140%	76%	50%	140%
Acenaphthylene	3478879		<0.05	<0.05	NA	< 0.05	92%	50%	140%	74%	50%	140%	80%	50%	140%
Acenaphthene	3478879		<0.05	<0.05	NA	< 0.05	98%	50%	140%	77%	50%	140%	83%	50%	140%
Fluorene	3478879		<0.05	<0.05	NA	< 0.05	93%	50%	140%	78%	50%	140%	90%	50%	140%
Phenanthrene	3478879		<0.05	<0.05	NA	< 0.05	85%	50%	140%	73%	50%	140%	87%	50%	140%
Anthracene	3478879		<0.05	<0.05	NA	< 0.05	109%	50%	140%	93%	50%	140%	103%	50%	140%
Fluoranthene	3478879		<0.05	0.05	NA	< 0.05	101%	50%	140%	82%	50%	140%	94%	50%	140%
Pyrene	3478879		<0.05	<0.05	NA	< 0.05	94%	50%	140%	80%	50%	140%	92%	50%	140%
Benz(a)anthracene	3478879		<0.05	<0.05	NA	< 0.05	88%	50%	140%	89%	50%	140%	96%	50%	140%
Chrysene	3478879		<0.05	<0.05	NA	< 0.05	81%	50%	140%	79%	50%	140%	77%	50%	140%
Benzo(b)fluoranthene	3478879		<0.05	<0.05	NA	< 0.05	77%	50%	140%	106%	50%	140%	79%	50%	140%
Benzo(k)fluoranthene	3478879		<0.05	<0.05	NA	< 0.05	79%	50%	140%	98%	50%	140%	93%	50%	140%
Benzo(a)pyrene	3478879		<0.05	<0.05	NA	< 0.05	71%	50%	140%	72%	50%	140%	76%	50%	140%
Indeno(1,2,3-cd)pyrene	3478879		<0.05	<0.05	NA	< 0.05	78%	50%	140%	70%	50%	140%	72%	50%	140%
Dibenz(a,h)anthracene	3478879		<0.05	<0.05	NA	< 0.05	75%	50%	140%	72%	50%	140%	73%	50%	140%
Benzo(g,h,i)perylene	3478879		<0.05	<0.05	NA	< 0.05	77%	50%	140%	72%	50%	140%	78%	50%	140%
O. Reg. 153(511) - VOCs (Soil)															
Dichlorodifluoromethane	3479549		< 0.05	< 0.05	NA	< 0.05	104%	50%	140%	56%	50%	140%	96%	50%	140%
Vinyl Chloride	3479549		< 0.02	< 0.02	NA	< 0.02	84%	50%	140%	90%	50%	140%	105%	50%	140%
Bromomethane	3479549		< 0.05	< 0.05	NA	< 0.05	101%	50%	140%	82%	50%	140%	74%	50%	140%
Trichlorofluoromethane	3479549		< 0.05	< 0.05	NA	< 0.05	96%	50%	140%	92%	50%	140%	83%	50%	140%
Acetone	3479549		< 0.50	< 0.50	NA	< 0.50	104%	50%	140%	89%	50%	140%	104%	50%	140%
1,1-Dichloroethylene	3479549		< 0.05	< 0.05	NA	< 0.05	110%	50%	140%	92%	60%	130%	98%	50%	140%
Methylene Chloride	3479549		< 0.05	< 0.05	NA	< 0.05	104%	50%	140%	96%	60%	130%	98%	50%	140%
Trans- 1,2-Dichloroethylene	3479549		< 0.05	< 0.05	NA	< 0.05	104%	50%	140%	86%	60%	130%	101%	50%	140%
Methyl tert-butyl Ether	3479549		< 0.05	< 0.05	NA	< 0.05	78%	50%	140%	72%	60%	130%	80%	50%	140%
1,1-Dichloroethane	3479549		< 0.02	< 0.02	NA	< 0.02	89%	50%	140%	119%	60%	130%	107%	50%	140%
Methyl Ethyl Ketone	3479549		< 0.50	< 0.50	NA	< 0.50	102%	50%	140%	106%	50%	140%	97%	50%	140%
Cis- 1,2-Dichloroethylene	3479549		< 0.02	< 0.02	NA	< 0.02	95%	50%	140%	117%	60%	130%	76%	50%	140%
Chloroform	3479549		< 0.04	< 0.04	NA	< 0.04	102%	50%	140%	117%	60%	130%	100%	50%	140%
1,2-Dichloroethane	3479549		< 0.03	< 0.03	NA	< 0.03	83%	50%	140%	97%	60%	130%	116%	50%	140%
1,1,1-Trichloroethane	3479549		< 0.05	< 0.05	NA	< 0.05	89%	50%	140%	111%	60%	130%	91%	50%	140%
Carbon Tetrachloride	3479549		< 0.05	< 0.05	NA	< 0.05	83%	50%	140%	83%	60%	130%	90%	50%	140%

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Quality Assurance

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

AGAT WORK ORDER: 22T860034

PROJECT: SM301760

ATTENTION TO: Adam Roemmele

SAMPLING SITE:Lundy's Lane

SAMPLED BY:MA

Trace Organics Analysis (Continued)

RPT Date: Feb 28, 2022			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
Benzene	3479549		< 0.02	< 0.02	NA	< 0.02	76%	50%	140%	86%	60%	130%	101%	50%	140%
1,2-Dichloropropane	3479549		< 0.03	< 0.03	NA	< 0.03	72%	50%	140%	85%	60%	130%	109%	50%	140%
Trichloroethylene	3479549		< 0.03	< 0.03	NA	< 0.03	87%	50%	140%	104%	60%	130%	103%	50%	140%
Bromodichloromethane	3479549		< 0.05	< 0.05	NA	< 0.05	81%	50%	140%	92%	60%	130%	104%	50%	140%
Methyl Isobutyl Ketone	3479549		< 0.50	< 0.50	NA	< 0.50	109%	50%	140%	78%	50%	140%	99%	50%	140%
1,1,2-Trichloroethane	3479549		< 0.04	< 0.04	NA	< 0.04	112%	50%	140%	79%	60%	130%	96%	50%	140%
Toluene	3479549		< 0.05	< 0.05	NA	< 0.05	112%	50%	140%	89%	60%	130%	102%	50%	140%
Dibromochloromethane	3479549		< 0.05	< 0.05	NA	< 0.05	113%	50%	140%	81%	60%	130%	98%	50%	140%
Ethylene Dibromide	3479549		< 0.04	< 0.04	NA	< 0.04	114%	50%	140%	82%	60%	130%	94%	50%	140%
Tetrachloroethylene	3479549		< 0.05	< 0.05	NA	< 0.05	85%	50%	140%	78%	60%	130%	102%	50%	140%
1,1,1,2-Tetrachloroethane	3479549		< 0.04	< 0.04	NA	< 0.04	109%	50%	140%	79%	60%	130%	102%	50%	140%
Chlorobenzene	3479549		< 0.05	< 0.05	NA	< 0.05	114%	50%	140%	83%	60%	130%	108%	50%	140%
Ethylbenzene	3479549		< 0.05	< 0.05	NA	< 0.05	102%	50%	140%	79%	60%	130%	88%	50%	140%
m & p-Xylene	3479549		< 0.05	< 0.05	NA	< 0.05	109%	50%	140%	86%	60%	130%	93%	50%	140%
Bromoform	3479549		< 0.05	< 0.05	NA	< 0.05	117%	50%	140%	79%	60%	130%	102%	50%	140%
Styrene	3479549		< 0.05	< 0.05	NA	< 0.05	94%	50%	140%	73%	60%	130%	86%	50%	140%
1,1,2,2-Tetrachloroethane	3479549		< 0.05	< 0.05	NA	< 0.05	119%	50%	140%	80%	60%	130%	108%	50%	140%
o-Xylene	3479549		< 0.05	< 0.05	NA	< 0.05	114%	50%	140%	85%	60%	130%	99%	50%	140%
1,3-Dichlorobenzene	3479549		< 0.05	< 0.05	NA	< 0.05	100%	50%	140%	93%	60%	130%	119%	50%	140%
1,4-Dichlorobenzene	3479549		< 0.05	< 0.05	NA	< 0.05	95%	50%	140%	92%	60%	130%	101%	50%	140%
1,2-Dichlorobenzene	3479549		< 0.05	< 0.05	NA	< 0.05	97%	50%	140%	88%	60%	130%	98%	50%	140%
n-Hexane	3479549		< 0.05	< 0.05	NA	< 0.05	102%	50%	140%	95%	60%	130%	87%	50%	140%
O. Reg. 153(511) - PHCs F1 - F4 (with PAHs and VOC) (Soil)															
F2 (C10 to C16)	3480316		< 10	< 10	NA	< 10	121%	60%	140%	69%	60%	140%	68%	60%	140%
F3 (C16 to C34)	3480316		< 50	< 50	NA	< 50	116%	60%	140%	67%	60%	140%	67%	60%	140%
F4 (C34 to C50)	3480316		< 50	< 50	NA	< 50	98%	60%	140%	87%	60%	140%	61%	60%	140%
O. Reg. 153(511) - VOCs (Soil)															
Dichlorodifluoromethane	3477923	3477923	< 0.05	< 0.05	NA	< 0.05	104%	50%	140%	56%	50%	140%	96%	50%	140%
Vinyl Chloride	3477923	3477923	< 0.02	< 0.02	NA	< 0.02	84%	50%	140%	90%	50%	140%	105%	50%	140%
Bromomethane	3477923	3477923	< 0.05	< 0.05	NA	< 0.05	101%	50%	140%	82%	50%	140%	74%	50%	140%
Trichlorofluoromethane	3477923	3477923	< 0.05	< 0.05	NA	< 0.05	96%	50%	140%	92%	50%	140%	83%	50%	140%
Acetone	3477923	3477923	< 0.50	< 0.50	NA	< 0.50	104%	50%	140%	89%	50%	140%	104%	50%	140%
1,1-Dichloroethylene	3477923	3477923	< 0.05	< 0.05	NA	< 0.05	110%	50%	140%	92%	60%	130%	98%	50%	140%
Methylene Chloride	3477923	3477923	< 0.05	< 0.05	NA	< 0.05	104%	50%	140%	96%	60%	130%	98%	50%	140%
Trans- 1,2-Dichloroethylene	3477923	3477923	< 0.05	< 0.05	NA	< 0.05	104%	50%	140%	86%	60%	130%	101%	50%	140%
Methyl tert-butyl Ether	3477923	3477923	< 0.05	< 0.05	NA	< 0.05	78%	50%	140%	72%	60%	130%	80%	50%	140%
1,1-Dichloroethane	3477923	3477923	< 0.02	< 0.02	NA	< 0.02	89%	50%	140%	119%	60%	130%	107%	50%	140%

Comments: When the average of the sample and duplicate results is less than 5x the RDL, the Relative Percent Difference (RPD) will be indicated as Not Applicable (NA).

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Quality Assurance

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

AGAT WORK ORDER: 22T860034

PROJECT: SM301760

ATTENTION TO: Adam Roemmele

SAMPLING SITE:Lundy's Lane

SAMPLED BY:MA

Trace Organics Analysis (Continued)

RPT Date: Feb 28, 2022

PARAMETER	Batch	Sample Id	DUPLICATE			Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
			Dup #1	Dup #2	RPD		Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
Methyl Ethyl Ketone	3477923	3477923	< 0.50	< 0.50	NA	< 0.50	102%	50%	140%	106%	50%	140%	97%	50%	140%
Cis- 1,2-Dichloroethylene	3477923	3477923	< 0.02	< 0.02	NA	< 0.02	95%	50%	140%	117%	60%	130%	76%	50%	140%
Chloroform	3477923	3477923	< 0.04	< 0.04	NA	< 0.04	102%	50%	140%	117%	60%	130%	100%	50%	140%
1,2-Dichloroethane	3477923	3477923	< 0.03	< 0.03	NA	< 0.03	83%	50%	140%	97%	60%	130%	116%	50%	140%
1,1,1-Trichloroethane	3477923	3477923	< 0.05	< 0.05	NA	< 0.05	89%	50%	140%	111%	60%	130%	91%	50%	140%
Carbon Tetrachloride	3477923	3477923	< 0.05	< 0.05	NA	< 0.05	83%	50%	140%	83%	60%	130%	90%	50%	140%
Benzene	3477923	3477923	< 0.02	< 0.02	NA	< 0.02	76%	50%	140%	86%	60%	130%	101%	50%	140%
1,2-Dichloropropane	3477923	3477923	< 0.03	< 0.03	NA	< 0.03	72%	50%	140%	85%	60%	130%	109%	50%	140%
Trichloroethylene	3477923	3477923	< 0.03	< 0.03	NA	< 0.03	87%	50%	140%	104%	60%	130%	103%	50%	140%
Bromodichloromethane	3477923	3477923	< 0.05	< 0.05	NA	< 0.05	81%	50%	140%	92%	60%	130%	104%	50%	140%
Methyl Isobutyl Ketone	3477923	3477923	< 0.50	< 0.50	NA	< 0.50	109%	50%	140%	78%	50%	140%	99%	50%	140%
1,1,2-Trichloroethane	3477923	3477923	< 0.04	< 0.04	NA	< 0.04	112%	50%	140%	79%	60%	130%	96%	50%	140%
Toluene	3477923	3477923	< 0.05	< 0.05	NA	< 0.05	112%	50%	140%	89%	60%	130%	102%	50%	140%
Dibromochloromethane	3477923	3477923	< 0.05	< 0.05	NA	< 0.05	113%	50%	140%	81%	60%	130%	98%	50%	140%
Ethylene Dibromide	3477923	3477923	< 0.04	< 0.04	NA	< 0.04	114%	50%	140%	82%	60%	130%	94%	50%	140%
Tetrachloroethylene	3477923	3477923	0.22	0.21	NA	< 0.05	85%	50%	140%	78%	60%	130%	102%	50%	140%
1,1,1,2-Tetrachloroethane	3477923	3477923	< 0.04	< 0.04	NA	< 0.04	109%	50%	140%	79%	60%	130%	102%	50%	140%
Chlorobenzene	3477923	3477923	< 0.05	< 0.05	NA	< 0.05	114%	50%	140%	83%	60%	130%	108%	50%	140%
Ethylbenzene	3477923	3477923	< 0.05	< 0.05	NA	< 0.05	102%	50%	140%	79%	60%	130%	88%	50%	140%
m & p-Xylene	3477923	3477923	< 0.05	< 0.05	NA	< 0.05	109%	50%	140%	86%	60%	130%	93%	50%	140%
Bromoform	3477923	3477923	< 0.05	< 0.05	NA	< 0.05	117%	50%	140%	79%	60%	130%	102%	50%	140%
Styrene	3477923	3477923	< 0.05	< 0.05	NA	< 0.05	94%	50%	140%	73%	60%	130%	86%	50%	140%
1,1,2,2-Tetrachloroethane	3477923	3477923	< 0.05	< 0.05	NA	< 0.05	119%	50%	140%	80%	60%	130%	108%	50%	140%
o-Xylene	3477923	3477923	< 0.05	< 0.05	NA	< 0.05	114%	50%	140%	85%	60%	130%	99%	50%	140%
1,3-Dichlorobenzene	3477923	3477923	< 0.05	< 0.05	NA	< 0.05	100%	50%	140%	93%	60%	130%	119%	50%	140%
1,4-Dichlorobenzene	3477923	3477923	< 0.05	< 0.05	NA	< 0.05	95%	50%	140%	92%	60%	130%	101%	50%	140%
1,2-Dichlorobenzene	3477923	3477923	< 0.05	< 0.05	NA	< 0.05	97%	50%	140%	88%	60%	130%	98%	50%	140%
n-Hexane	3477923	3477923	< 0.05	< 0.05	NA	< 0.05	102%	50%	140%	95%	60%	130%	87%	50%	140%
O. Reg. 153(511) - PCBs (Soil)															
Polychlorinated Biphenyls	3506974		< 0.1	< 0.1	NA	< 0.1	104%	50%	140%	84%	50%	140%	74%	50%	140%
O. Reg. 558 - VOCs															
Vinyl Chloride Leachate	3499630		<0.030	<0.030	NA	< 0.030	95%	50%	140%	107%	50%	140%	96%	50%	140%
1,1 Dichloroethene Leachate	3499630		<0.020	<0.020	NA	< 0.020	79%	50%	140%	114%	60%	130%	96%	50%	140%
Dichloromethane Leachate	3499630		<0.030	<0.030	NA	< 0.030	97%	50%	140%	91%	60%	130%	96%	50%	140%
Methyl Ethyl Ketone Leachate	3499630		<0.090	<0.090	NA	< 0.090	78%	50%	140%	88%	50%	140%	95%	50%	140%
Chloroform Leachate	3499630		<0.020	<0.020	NA	< 0.020	75%	50%	140%	74%	60%	130%	104%	50%	140%
1,2-Dichloroethane Leachate	3499630		<0.020	<0.020	NA	< 0.020	89%	50%	140%	88%	60%	130%	94%	50%	140%
Carbon Tetrachloride Leachate	3499630		<0.020	<0.020	NA	< 0.020	82%	50%	140%	76%	60%	130%	83%	50%	140%
Benzene Leachate	3499630		<0.020	<0.020	NA	< 0.020	70%	50%	140%	79%	60%	130%	97%	50%	140%

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Quality Assurance

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

AGAT WORK ORDER: 22T860034

PROJECT: SM301760

ATTENTION TO: Adam Roemmele

SAMPLING SITE:Lundy's Lane

SAMPLED BY:MA

Trace Organics Analysis (Continued)

RPT Date: Feb 28, 2022			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
Trichloroethene Leachate	3499630		<0.020	<0.020	NA	< 0.020	86%	50%	140%	87%	60%	130%	107%	50%	140%
Tetrachloroethene Leachate	3499630		<0.050	<0.050	NA	< 0.050	73%	50%	140%	92%	60%	130%	98%	50%	140%
Chlorobenzene Leachate	3499630		<0.010	<0.010	NA	< 0.010	86%	50%	140%	77%	60%	130%	89%	50%	140%
1,2-Dichlorobenzene Leachate	3499630		<0.010	<0.010	NA	< 0.010	107%	50%	140%	83%	60%	130%	107%	50%	140%
1,4-Dichlorobenzene Leachate	3499630		<0.010	<0.010	NA	< 0.010	99%	50%	140%	84%	60%	130%	108%	50%	140%

Certified By: N Popnikolof

AGAT Laboratories is accredited to ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA) and/or Standards Council of Canada (SCC) for specific tests listed on the scope of accreditation. AGAT Laboratories (Mississauga) is also accredited by the Canadian Association for Laboratory Accreditation Inc. (CALA) for specific drinking water tests. Accreditations are location and parameter specific. A complete listing of parameters for each location is available from www.cala.ca and/or www.scc.ca. The tests in this report may not necessarily be included in the scope of accreditation. RPDs calculated using raw data. The RPD may not be reflective of duplicate values shown, due to rounding of final results.

Results relate only to the items tested. Results apply to samples as received.

AGAT Laboratories

2910 12TH STREET NE
CALGARY, ALBERTA
CANADA T2E 7P7
TEL (403)735-2005
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http://www.agatlabs.com

Method Summary

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

AGAT WORK ORDER: 22T860034

PROJECT: SM301760

ATTENTION TO: Adam Roemmele

SAMPLING SITE:Lundy's Lane

SAMPLED BY:MA

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Soil Analysis			
Chloride (2:1)	INOR-93-6004	modified from SM 4110 B	ION CHROMATOGRAPH
Sulphate (2:1)	INOR-93-6004	modified from SM 4110 B	ION CHROMATOGRAPH
pH (2:1)	INOR 93-6031	modified from EPA 9045D and MCKEAGUE 3.11	PH METER
Electrical Conductivity (2:1)	INOR-93-6036	modified from MSA PART 3, CH 14 and SM 2510 B	EC METER
Resistivity (2:1) (Calculated)	INOR-93-6036	McKeague 4.12, SM 2510 B,SSA #5 Part 3	CALCULATION
Redox Potential 1	INOR-93-6066	G200-20, SM 2580 B	REDOX POTENTIAL ELECTRODE
Redox Potential 2	INOR-93-6066	G200-20, SM 2580 B	REDOX POTENTIAL ELECTRODE
Redox Potential 3	INOR-93-6066	G200-20, SM 2580 B	REDOX POTENTIAL ELECTRODE
Antimony	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Arsenic	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Barium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Beryllium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Boron	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Boron (Hot Water Soluble)	MET-93-6104	modified from EPA 6010D and MSA PART 3, CH 21	ICP/OES
Cadmium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Chromium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Cobalt	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Copper	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Lead	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Molybdenum	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Nickel	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Selenium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Silver	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Thallium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Uranium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Vanadium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Zinc	MET 93 -6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Chromium, Hexavalent	INOR-93-6068	modified from EPA 3060 and EPA 7196	SPECTROPHOTOMETER
Cyanide, Free	INOR-93-6052	modified from ON MOECC E3015, SM 4500-CN- I, G-387	TECHNICON AUTO ANALYZER
Mercury	MET-93-6103	modified from EPA 7471B and SM 3112 B	ICP-MS

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Method Summary

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

AGAT WORK ORDER: 22T860034

PROJECT: SM301760

ATTENTION TO: Adam Roemmele

SAMPLING SITE:Lundy's Lane

SAMPLED BY:MA

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Sodium Adsorption Ratio (2:1) (Calc.)	INOR-93-6007	modified from EPA 6010D & Analytical Protocol	ICP/OES
pH, 2:1 CaCl2 Extraction	INOR-93-6031	modified from EPA 9045D and MCKEAGUE 3.11	PH METER
Arsenic Leachate	MET-93-6103	EPA 1311 & modified from EPA 6020B	ICP-MS
Barium Leachate	MET-93-6103	EPA 1311 & modified from EPA 6020B	ICP-MS
Boron Leachate	MET-93-6103	EPA 1311 & modified from EPA 6020B	ICP-MS
Cadmium Leachate	MET-93-6103	EPA 1311 & modified from EPA 6020B	ICP-MS
Chromium Leachate	MET-93-6103	EPA 1311 & modified from EPA 6020B	ICP-MS
Lead Leachate	MET-93-6103	EPA 1311 & modified from EPA 6020B	ICP-MS
Mercury Leachate	MET-93-6103	EPA 1311 & modified from EPA 6020B	ICP-MS
Selenium Leachate	MET-93-6103	EPA 1311 & modified from EPA 6020B	ICP-MS
Silver Leachate	MET-93-6103	EPA 1311 & modified from EPA 6020B	ICP-MS
Uranium Leachate	MET-93-6103	EPA 1311 & modified from EPA 6020B	ICP-MS

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AGAT WORK ORDER: 22T860034

PROJECT: SM301760

ATTENTION TO: Adam Roemmele

SAMPLING SITE:Lundy's Lane

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PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Naphthalene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Acenaphthylene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Acenaphthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Fluorene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Phenanthrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Anthracene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Fluoranthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Pyrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benz(a)anthracene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Chrysene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(b)fluoranthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(k)fluoranthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(a)pyrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Indeno(1,2,3-cd)pyrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Dibenz(a,h)anthracene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(g,h,i)perylene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
1 and 2 Methlynaphthalene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Naphthalene-d8	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Acridine-d9	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Terphenyl-d14	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Moisture Content	VOL-91-5009	CCME Tier 1 Method	BALANCE
Polychlorinated Biphenyls	ORG-91-5113	modified from EPA SW-846 3541 & 8082A	GC/ECD
Decachlorobiphenyl	ORG-91-5113	modified from EPA SW-846 3541 & 8082A	GC/ECD
wet weight PCB	ORG-91-5113		BALANCE
F1 (C6 - C10)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/FID
F1 (C6 to C10) minus BTEX	VOL-91-5009	modified from CCME Tier 1 Method	P&T GC/FID
Toluene-d8	VOL-91-5009	modified from EPA SW-846 5030C & 8260D	(P&T)GC/MS
F2 (C10 to C16)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F2 (C10 to C16) minus Naphthalene	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34) minus PAHs	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID

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Method Summary

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

AGAT WORK ORDER: 22T860034

PROJECT: SM301760

ATTENTION TO: Adam Roemmele

SAMPLING SITE:Lundy's Lane

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PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
F4 (C34 to C50)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
Gravimetric Heavy Hydrocarbons	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Terphenyl	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
Dichlorodifluoromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Vinyl Chloride	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Bromomethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Trichlorofluoromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Acetone	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1-Dichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methylene Chloride	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Trans- 1,2-Dichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methyl tert-butyl Ether	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1-Dichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methyl Ethyl Ketone	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Cis- 1,2-Dichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Chloroform	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,2-Dichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1,1-Trichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Carbon Tetrachloride	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Benzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,2-Dichloropropane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Trichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Bromodichloromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methyl Isobutyl Ketone	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1,2-Trichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Toluene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Dibromochloromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Ethylene Dibromide	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Tetrachloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS

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Method Summary

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

AGAT WORK ORDER: 22T860034

PROJECT: SM301760

ATTENTION TO: Adam Roemmele

SAMPLING SITE:Lundy's Lane

SAMPLED BY:MA

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
1,1,1,2-Tetrachloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Chlorobenzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Ethylbenzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
m & p-Xylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Bromoform	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Styrene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1,2,2-Tetrachloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
o-Xylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,3-Dichlorobenzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,4-Dichlorobenzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,2-Dichlorobenzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Xylenes (Total)	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,3-Dichloropropene (Cis + Trans)	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
n-Hexane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Toluene-d8	VOL-91-5002	modified from EPA 5035A & EPA 8260D	(P&T)GC/MS
4-Bromofluorobenzene	VOL-91-5002	modified from EPA 5035A & EPA 8260D	(P&T)GC/MS
Moisture Content	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Vinyl Chloride Leachate	VOL-91-5001	EPA 1311, modified from EPA 5030C & EPA 8260D	(P&T)GC/MS
1,1 Dichloroethene Leachate	VOL-91-5001	EPA 1311, modified from EPA 5030C & EPA 8260D	(P&T)GC/MS
Dichloromethane Leachate	VOL-91-5001	EPA 1311, modified from EPA 5030C & EPA 8260D	(P&T)GC/MS
Methyl Ethyl Ketone Leachate	VOL-91-5001	EPA 1311, modified from EPA 5030C & EPA 8260D	(P&T)GC/MS
Chloroform Leachate	VOL-91-5001	EPA 1311, modified from EPA 5030C & EPA 8260D	(P&T)GC/MS
1,2-Dichloroethane Leachate	VOL-91-5001	EPA 1311, modified from EPA 5030C & EPA 8260D	(P&T)GC/MS
Carbon Tetrachloride Leachate	VOL-91-5001	EPA 1311, modified from EPA 5030C & EPA 8260D	(P&T)GC/MS
Benzene Leachate	VOL-91-5001	EPA 1311, modified from EPA 5030C & EPA 8260D	(P&T)GC/MS
Trichloroethene Leachate	VOL-91-5001	EPA 1311, modified from EPA 5030C & EPA 8260D	(P&T)GC/MS
Tetrachloroethene Leachate	VOL-91-5001	EPA 1311, modified from EPA 5030C & EPA 8260D	(P&T)GC/MS
Chlorobenzene Leachate	VOL-91-5001	EPA 1311, modified from EPA 5030C & EPA 8260D	(P&T)GC/MS

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Method Summary

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

AGAT WORK ORDER: 22T860034

PROJECT: SM301760

ATTENTION TO: Adam Roemmele

SAMPLING SITE:Lundy's Lane

SAMPLED BY:MA

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
1,2-Dichlorobenzene Leachate	VOL-91-5001	EPA 1311, modified from EPA 5030C & EPA 8260D	(P&T)GC/MS
1,4-Dichlorobenzene Leachate	VOL-91-5001	EPA 1311, modified from EPA 5030C & EPA 8260D	(P&T)GC/MS
Toluene-d8	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
4-Bromofluorobenzene	VOL-91- 5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS

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5835 Coopers Avenue
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Ph: 905.712.5100 Fax: 905.712.5122
webearth.agatlabs.com

Chain of Custody Record

If this is a Drinking Water sample, please use Drinking Water Chain of Custody Form (potable water consumed by humans)

Report Information:

Company: Soil-Mat
Contact: Adam Roemmele
Address:
Phone: Fax:
Reports to be sent to:
1. Email: aroemmele@soil-mat.ca
2. Email: Maccettone@soil-mat.ca

Project Information:

Project: SM301760
Site Location: Lundy's Lane
Sampled By: MA
AGAT Quote #: 441598 PO:
Please note: If quotation number is not provided, client will be billed full price for analysis.

Invoice Information:

Bill To Same: Yes ☐ No ☐
Company:
Contact:
Address:
Email:

Regulatory Requirements:

(Please check all applicable boxes)

☐ Regulation 153/04
Table (Indicate One) ☐ Ind/Com ☐ Res/Park ☐ Agriculture
Soil Texture (Check One) ☐ Coarse ☐ Fine

☑ Excess Soils R406
Table 1RPI/ICC (Indicate One)
☐ Regulation 558
☐ CCME

☐ Sewer Use ☐ Sanitary ☐ Storm
(Region)
☐ Prov. Water Quality Objectives (PWQO)
☐ Other
(Indicate One)

Is this submission for a Record of Site Condition? ☐ Yes ☐ No

Report Guideline on *Certificate of Analysis* ☐ Yes ☐ No

Sample Matrix Legend

B	Biota
GW	Ground Water
O	Oil
P	Paint
S	Soil
SD	Sediment
SW	Surface Water

Laboratory Use Only

Work Order #: 22T860034
Cooler Quantity:
Arrival Temperatures: 4.6 | 5.1 | 4.9 / 3.8 | 3.9 | 4.2
Custody Seal Intact: ☐ Yes ☐ No ☐ N/A
Notes: FREE ICE

Turnaround Time (TAT) Required:

Regular TAT ☑ 5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)

☐ 3 Business Days ☐ 2 Business Days ☐ Next Business Day

OR Date Required (Rush Surcharges May Apply):

Please provide prior notification for rush TAT
**TAT is exclusive of weekends and statutory holidays*

For 'Same Day' analysis, please contact your AGAT CPM

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI, DOC Y/N	O. Reg 153: Metals & Inorganics	Metals - ☐ CrVI, ☐ Hg, ☐ HWSB	BTEX, F1-F4 PHCs Analyze F4G if required ☐ Yes ☐ No	PAHs	PCBs	VOC	O. Reg 558: Landfill Disposal Characterization TCLP: ☐ TCLP: ☐ M&I ☐ VOCs ☐ ABNs ☐ B(a)P ☐ PCBs	O. Reg 406: Excess Soils SPLP Rainwater Leach	SPLP: ☐ Metals ☐ VOCs ☐ SVOCs	Excess Soils Characterization Package pH, ICPMS Metals, BTEX, F1-F4	Salt - EC/SAR	Corrosivity	Potentially Hazardous or High Concentration Y/N
BH14 SS1	1 Feb 2022	am	4	s			☑		☑	☑		☑							
BH14 SS2	1 Feb 2022	am	4	s			☑		☑	☑		☑							
BH14 SS4	1 Feb 2022	am	1	s													☑		
BH16 SS1	1 Feb 2022	am	4	s			☑		☑	☑		☑							
BH16 SS3	1 Feb 2022	am	4	s			☑		☑	☑		☑							
BH16 SS2	1 Feb 2022	am	1	s													☑		
BH18 SS1	1 Feb 2022	am	4	s			☑		☑	☑		☑							
BH18 SS3	1 Feb 2022	am	1	s													☑		
BH18 SS4	1 Feb 2022	am	4	s			☑		☑	☑		☑							

Samples Relinquished By (Print Name and Sign): Steven Dhuma	Date 02/02/22	Time 4:15pm	Samples Received By (Print Name and Sign): Steven Dhuma	Date 02/02/22	Time 7:40pm
Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time

Page 1 of 1
N°:

Pink Copy - Client | Yellow Copy - AGAT | White Copy- AGAT

Document ID: DW-78-1511-021 Date Issued: March 8, 2021