

Appendix K

Environmental Site Assessment: Phases 1 and 2

March 18, 2021

Prepared for



BRAMPTON
Flower City

Prepared by



IBI GROUP



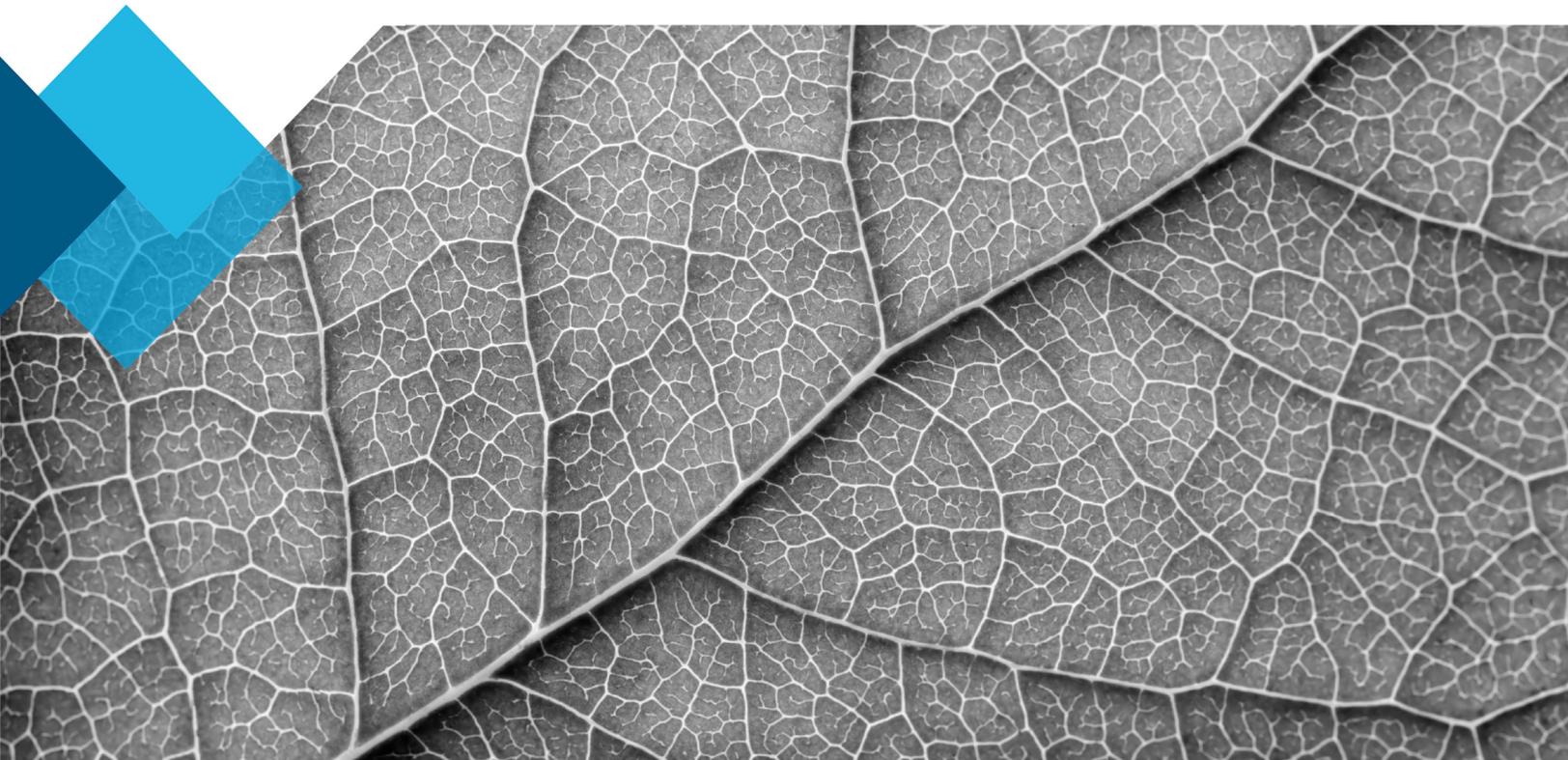


SNC • LAVALIN

Phase One Environmental Site Assessment

10192 Highway 50, Brampton, Ontario

City of Brampton



Environment & Geoscience

FINAL – November 29, 2019

Internal Ref.: 665125

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The findings, conclusions, and recommendations in this report (i) have been developed in a manner consistent with the level of skill normally exercised by professionals currently practicing under similar conditions in the area, and (ii) reflect SNC-Lavalin's best judgment based on information available at the time of preparation of this report. No other warranties, either expressed or implied, are made as to the professional services provided under the terms of our original contract and included in this report. The findings and conclusions contained in this report are valid only as of the date of this report and may be based, in part, upon information provided by others. If any of the information is inaccurate, new information is discovered, site conditions change, or applicable standards are amended, modifications to this report may be necessary. The results of this assessment should in no way be construed as a warranty that the subject site is free from any and all contamination.

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Executive Summary

The Environment & Geoscience business unit of SNC-Lavalin Inc. (SNC-Lavalin) was retained by the City of Brampton (the City) to conduct a Phase One Environmental Site Assessment (ESA) of the property located at 10192 Highway 50 located, Brampton, Ontario. It is understood that the City already owns the northeast portion of this property (approximately 8 hectares [ha] in size; identified as “Parcel A1”) and plans to purchase an additional 8.5 ha, consisting of an 8 ha “L” shape parcel located along the south and west (identified as “Parcel A”), and a 0.5 ha parcel south of Parcel A just west of Highway 50 (identified as “Parcel B”). Collectively, all three Parcels, herein, are referred to as the “Phase One Property” or the “Site”.

This Phase One ESA was completed to meet the requirements for filing of a Record of Site Condition (RSC) under Ontario Regulation 153/04 (O. Reg. 153/04, as amended). The Site is located on the corner of the intersection of Highway 50 and Cadetta Road, in Brampton, Ontario. It is trapezoidal in shape and measures approximately 17 hectares (43 acres).

First developed use of the Phase One Property was determined to be post 2005.

The topography at the Phase One Property is generally flat with a slight slope towards the west. The Site elevation is approximately 209 m amsl. The nearest surface water body is Rainbow Creek that crosses the northwest corner of the Site. Based on the topography of the entire Site, it is anticipated that groundwater flow is towards the south/south west towards this creek.

The regional surface geology comprises Glaciolacustrine deposit, predominantly silt and clay with minor sand (Barnett et. al., 1991, Map 2556). The bedrock geology in the area belongs to the group of the Georgian Bay Formation; Blue Mountain Formation; Billings Formation; Collingwood Member, and Eastview Member consisting of shale, limestone, dolostone and siltstone (Ontario Geological Survey, 1991, Map 2544).

Site observations and review of historical records (environmental reports, chain of title, Ministry of Environment, Parks and Conservation [MECP] and EcoLog Eris records, municipal directories and aerial photographs) provided key Site information including:

- › Review of the chain of title indicated the Phase One Property consists of two PINs (14213-0276 [Parcel A1] and a portion [Parcels A and B] of 14213-0300) transferred and owned by various individuals and/or corporation over the years. PIN 14213-0276 was owned by private individuals from 1830 to 2010, when it was purchased by the City of Brampton. PIN 14213-0300 has been owned by the same private individuals as PIN 14213-0276 since 1830 to present.
- › A regraded/cleared area at the northeast corner of the Site (i.e., Parcel A1) is being used as a satellite yard by the City’s Works Department and was constructed/graded with a layer of crushed stone/asphalt.
- › A storage shed located at the south end of PIN 14213-0300 (i.e., Parcel A) was installed post 2005 and has been used to store farm machinery/equipment.
- › An above ground storage tank (AST) for dyed diesel fuel located immediately south of the Site.
- › Current and historical commercial/industrial operations identified as waste generators and/or metal fabricators were recorded immediately adjacent to the north property boundary of the Site. In addition, a commercial/industrial facility located to the east of Highway 50, and upgradient to the direction of

inferred groundwater flow direction was listed as waste generator with documented spills. Based on the intervening distance to the Site and/or expected direction of groundwater flow to the south/southwest, potential impacts to soil and/or groundwater quality at the Site are anticipated resulting from the current and historical commercial/industrial operations on these properties.

Based on the specific observations for the Phase One Property and historical records review, on-site Areas of Potential Environmental Concern (APECs) associated with current and historical Potential Contaminating Activities (PCAs) and Areas of Interest (AOI) are presented below. AOI are activities or observations of conditions that may have the potential to adversely affect soil and groundwater conditions at the Site, but do not meet the MECP definition of a PCA.

- › Potential impacts to soil by pesticide/herbicides associated with the historical and current agricultural operations at the Site.
- › Potential impacts to soil and groundwater associated with fill of unknown quality used to construct the parking area of the City's Works Yard at the northeast corner of the Site.
- › Potential impacts to soil and groundwater associated with the storage of farm machinery/equipment located in the storage shed at the south end of the Site.

Based on the specific observations for the Phase One Study Area, the following off-Site PCAs and AOI were identified:

- › Potential impacts along north property boundary of the Phase One Property due to the commercial/industrial business located immediately to the north.
- › Potential impacts along the south property boundary of the Phase One Property due to petroleum fuel storage and handling associated with the AST located immediately to the south.
- › Potential impacts along the east property boundary on the Phase One Property due to the commercial/industrial property located to the east and upgradient.

Based on the historical use of the Site for agricultural purposes, importation of fill of unknown quality, storage of farm equipment/machinery, presence of waste generators and/or metal fabricators located immediately to the north, presence of an AST used to store dyed diesel fuel located immediately to the south, and documented waste generator and spills located at a property upgradient and to the east of the Site; potential contaminants of concern were identified as benzene, toluene, ethylbenzene, xylene (BTEX), petroleum hydrocarbon fractions (PHC) F1 to F4, volatile organic compounds (VOCs), polycyclic aromatic hydrocarbons (PAHs), pesticides and herbicides, and metals and inorganics to soil and groundwater.

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1 Introduction

The Environment & Geoscience business unit of SNC-Lavalin Inc. (SNC-Lavalin) was retained by the City of Brampton (the City) to conduct a Phase One Environmental Site Assessment (ESA) of the property located at 10192 Highway 50, Brampton, Ontario. It is understood that the City already owns the northeast portion of this property (approximately 8 hectares [ha] in size; identified as “Parcel A1”) and plans to purchase an additional 8.5 ha, consisting of an 8 ha “L” shape parcel located along the south and west (identified as “Parcel A”), and a 0.5 ha parcel south of Parcel A just west of Highway 50 (identified as “Parcel B”). Collectively, all three Parcels, herein, are referred to as the “Phase One Property” or the “Site”.

Although the proposed development will not require a filing of a Record of Site Condition (RSC) under Ontario Regulation 153/04 (O. Reg. 153/04, as amended); however, as requested by the City, this Phase One ESA was completed to meet this requirement.

1.1 Phase One Property Information

The Phase One Property is located on the southwest corner of the intersection of Highway 50 and Cadetta Road in Brampton, Ontario (Figure 1). It is trapezoidal in shape and measures approximately 16.5 ha (40.8 acres). The City already owns the north portion of the Site that is approximately 8 ha in size (i.e., Part 5 of Plan 43R-33140 [PIN 14213-0276]; identified as Parcel A1 for the purpose of this report) and plans to purchase an additional 8.5 hectares located along the south and west area of the Site (i.e., Parts 1 and 2 of the Concession 11, Plan 43R-33140 [PIN 14213-0300]; identified as Parcels A and B for the purpose of this report).

No structures exist on the Site with the exception of a metal shed located on Parcel A property used to store farm equipment/machinery. A gravel driveway exists along a portion of the southeast edge of the Site, Parcel B and which is associated with remainder of the property and having the same municipal address of 10192 Highway 50. The northeastern portion of the Site, Parcel A1 (owned by the City), has been re-graded/cleared and backfilled with a layer of crushed stone/asphalt and is being used as a satellite yard by the City’s Works Department. A soil berm, generated during the regarding of the area is located on the west side of yard. Two residential dwellings, nine barns for storage and/or livestock and five silos are located south of the Site, on the remainder of the property and having the same municipal address of 10192 Highway 50.

The Site is primarily flat with a gentle downward slope to the west. The Site is bounded by Cadetta Road and industrial/commercial properties to the north, Highway 50 and a trucking facility to the east and farm lands to the south and west. The land use at the Site is currently agricultural.

A Phase I ESA and a limited Phase II ESA were completed for Parcel A1 in 2008. No other investigations or assessments were completed for the remainder of the Site (i.e., Parcels A and B).

The layout of the Phase One Property is shown on Figure 2.

1.2 Contact Information

| | |
|--|---|
| Site Owner | Mr. James F. Johnston Authorized Signing Officer 10192 Highway 50, Brampton, Ontario |
| Person Requesting Phase One ESA | Ms. Reshma Fazlullah Project Coordinator Building Design and Construction City of Brampton 2 Wellington Street West City Hall – West Tower, 8 th Floor Brampton, Ontario L6Y 4R2 Telephone: 416-845-4237 |

2 Scope of the Investigation

The purpose of this Phase One ESA is to identify potentially contaminating activities (PCAs) that may have impacted the Site. This Phase One ESA was also requested to satisfy the requirements for the potential filing of a RSC.

The objectives of this Phase One ESA are to:

- › Identify areas of potential environmental concern (APECs) and preferential contaminant migration pathways.
- › Determine the need for further investigations and the basis for carrying out such investigations.

To meet the objectives described above, SNC-Lavalin completed the following work:

- › Reviewed available historical and environmental information for the Phase One Property.
- › Completed a Site reconnaissance to observe the current condition of the Phase One Property and Study Area (i.e., all properties within 300 m from the boundaries of the Phase One Property).
- › Conducted Interviews with the Phase One Property Owner.
- › Provided conclusions based on an evaluation of information gathered during this investigation.

The Phase One work program was based on the Canadian Standards Association (CSA) “Phase One Environmental Site Assessment” Standard Z768-01 (CSA, 2001) and O. Reg. 153/04 as amended, subject to the following study limitations:

- › A Phase One ESA does not constitute a Compliance Audit. No review of environmental regulatory compliance was carried out as part of this assessment.
- › No soil, water or other samples were collected or analysed as part of this work program.
- › A current legal plan of survey is not available at this time; a draft plan of survey provided by the City is presented in Appendix A.
- › Inspections of surrounding properties were limited to visual observations from the Phase One Property and from publicly accessible vantage points.

3 Records Review

SNC-Lavalin conducted a review of historical and environmental records relating to the Phase One Property and adjacent properties to identify evidence of actual or potential contamination in connection with the Phase One Property.

3.1 General Information

3.1.1 Phase One Study Area Determination

The Phase One Property is described as follows:

| | |
|---------------------------|--|
| Address: | 10192 Highway 50, Brampton, Ontario |
| Legal Description: | PIN 14213-0276: PT LT 12 CON 11 ND TORONTO GORE; DESIGNATED AS PART 5 ON PLAN 43R33140; CITY OF BRAMPTON PIN 14213-0300: PT LTS 11 AND 12, CON 11 ND, (FORMERLY TWP OF TORONTO GORE); DESIGNATED AS PTS 2,3,4 & 5 43R36614; CITY OF BRAMPTON |
| Location: | Northeast corner of the intersection of Highway 50 and Cadetta Road |
| Approximate Size: | PIN 14213-0276 (i.e., Parcel A1): Approximately 20 acre (8.0 ha) PIN 14213-0300 (i.e., Parcels A and B): Approximately 21 acre (8.5 ha) in total (Ref. Source for PIN 14213-0300 [i.e., Parcel A]: Pearson and Pearson Surveying Ltd., OLS Surveyor's Real Property Report, July 15, 2019) |
| Zoning: | Agricultural (A Zone) (City of Brampton Zoning By-Law 270-2004) |
| Current Use: | Agricultural |

The layout of the Phase One Property is shown in Figure 2. A current plan of survey of the Phase One Property for PIN 14213-0300 (i.e., Parcel A and B) providing the legal description of the property is included in Appendix A. A survey for PIN 14213-0276 (i.e., Parcel A1) has been requested from the City, however, to date one has not been provided.

The surrounding properties are predominantly zoned as Agricultural (A) or Industrial (M2) under the City of Brampton Zoning By-Law 270-2004.

For the purpose of this investigation, the following properties were identified as being adjacent to the Phase One Property:

- › **North:** Cadetta Road and Industrial (M2 zoning);
- › **South:** Agricultural (A zoning), with Residential Rural Estate (RE2 zoning) beyond to the southeast;
- › **East:** Highway 50, with industrial/commercial properties beyond; and,
- › **West:** Agricultural (A zoning).

The Phase One Property and all properties located wholly and/or partially within 300 m of the Phase One Property, is shown on Figure 3. Surrounding Land Use is also shown on Figure 3. Based on the current and historical records reviewed as part of this investigation, it was determined that the Phase One Study Area would include all properties within 300 m from the boundaries of the Site. No issues of significant environmental concern were identified through the review of historical records to suggest that the Phase One ESA Study Area should be expanded.

3.1.2 First Developed Use Determination

The review of the aerial photographs showed agricultural land use associated with the Phase One Property up to present day, with a structure (current location of the farm equipment storage building) noted to be present on the southern portion of the Site (i.e., Parcel A) in the 2015 aerial photograph, which was not present in the 2005 aerial photograph. A review of the chain of title associated with Parcel A1 indicated land was owned and transferred among various individuals from 1830 up to 2010, after which ownership was transferred to The Corporation of The City of Brampton. A review of the chain of title associated with Parcels A and B indicated land was owned and transferred among various individuals from 1830 up to the present owner.

Based on the above information, the first developed use of the Phase One Property was determined post 2005.

3.1.3 Fire Insurance Plans (FIPs)

OPTA Information Intelligence (OPTA) was contracted through EcoLog ERIS to obtain property underwriters' FIPs through their Historical Environmental Reporting System (HEIRS™). In their response dated May 15, 2019, OPTA indicated that no FIPs were available for the Site and/or surrounding area.

The FIP responses are provided in Appendix B.

3.1.4 Chain of Title

Land titles and the legal property descriptions were provided by EcoLog ERIS. As first developed use of the Phase One Property was unknown when the search was requested, the title search was completed from Crown to present. The results are summarized below and provided in Appendix C.

The current Phase One Property consists of two PINs (Part 5 of 14213-0276 and Parts 2, 3, 4 & 5 of 14213-0300) transferred and owned by various individuals and/or corporation over the years.

PIN 14213-0276 (Parcel A1)

| Year | Grant/Transfer/Lease |
|-----------------|---|
| 1830 | The Crown |
| 1830 to 2010 | Land owned and transferred among various individuals |
| 2010 to present | Land transferred to the Corporation of the City of Brampton on May 14, 2010 |

PIN 14213-0300 (Parcels A and B)

| Year | Grant/Transfer/Lease |
|-----------------|---|
| 1830 | The Crown |
| 1830 to 1993 | Land owned and transferred among various individuals |
| 1993 to present | Land transferred to the current owner James Fraser Johnston |

The title search for the Phase One Property has historically been under ownership of private individuals, with a portion of it (Parcel A; i.e., Part 5 of PIN 14213-0276) being transferred to the City in 2010.

3.1.5 Environmental Reports

A Phase I ESA and Limited Phase II ESA documenting a preliminary environmental investigation, were completed in 2008 (Trow, 2008 a and b) on PIN 14213-0276 (i.e. Parcel A1) of the Phase One Property. The findings of these reports are summarized below. No environmental reports are known to exist for PIN 14213-0300 (i.e., Parcels A and B).

Phase I ESA

- › On-site APEC relating to historical agricultural land use for crop production potentially affecting soil and groundwater.
- › Adjacent commercial and industrial properties to the immediate north and a trucking facility to the east, (across Highway 50) including but not limited to paint coating, tool and machining and automotive truck garages potentially affecting soil and groundwater.
- › It was recommended that a limited Phase II ESA be completed to assess topsoil for pesticides, and soil and groundwater testing for chemicals associated with the off-site commercial/industrial activities located adjacent to the north property boundary. The trucking facility to the east (across Highway 50) was considered low environmental risk.

Limited Phase II ESA

- › Four boreholes were advanced to depths between 5.0 m and 7.5 m below ground surface (bgs), of which two were instrumented as groundwater monitoring wells. Borehole and monitoring well locations are shown in Figure 2.
- › Stratigraphy was noted to be topsoil to depth of approximately 0.28 m underlain by clayey/silt till to an approximate depth of 3.1 m underlain by a sandy silt till to depths of between 4.9 and 7.8 m bgs.
- › The depth to water was noted to be between 2.6 m and 4.0 m bgs.
- › Detectable concentrations of selected metals and hydride parameters were noted in three analyzed soil samples but were below the then Table 2 criteria for agricultural land use in a potable groundwater condition (Ministry of the Environment (MOE), March 2004).
- › Concentrations of organochlorine pesticides (OP) and volatile organic compounds (VOC) in the analyzed soil samples were below the laboratory method detection limits.

- › Concentrations of selected heavy metals, OP and VOC in the analyzed groundwater samples met the then Table 2 criteria and/or were below the laboratory method detection limits.
- › It was concluded that no impacts were identified to soil or groundwater associated with historic site use including potential pesticides, and no indication of adverse impacts to soil and groundwater from the adjacent properties located to the north. It was recommended that a more comprehensive investigation of soil and groundwater be completed in close proximity to the north property boundary to evaluate potential impacts from industrial activities on these adjacent north properties.

3.2 Environmental Source Information

3.2.1 EcoLog ERIS Database Information

A copy of the EcoLog ERIS report requested in 2019, including a complete listing of the databases searched is provided as Appendix D.

Information that may be pertinent to the environmental condition of the Phase One Property is discussed below.

Phase One Property:

| Address/Business Name | Approximate Distance to the Site | Database Reviewed | Year | Potentially Contaminating Activities (PCAs)/Area of Interest (AOI) |
|-----------------------|----------------------------------|-------------------|------|---|
| 10192 Highway 50 | N/A | EHS | 2008 | The listings indicated ERIS historical search was completed for the Site in 2008. |

List of Databases:

EHS –ERIS Historical Searches

Surrounding Properties:

| Address/Business Name | Approximate Distance to the Site | Database Reviewed | Year | Potentially Contaminating Activities (PCAs)/Area of Interest (AOI) |
|--|---|-------------------|--------------|--|
| 2 Cadetta Rd. (Total Crane Rental Ltd.) | Approximately 44 m North of the Site | SPL | 2013 | A spill of diesel fuel to ground surface (volume not reported) due to unattended vehicle while filling; confirmed soil contamination recorded. |
| | | GEN | 1999 to 2001 | Listed as registered waste generator for waste oils and lubricants |
| 6 Cadetta Rd. (Joe Gallo Bros. Paving Ltd.) | Approximately 161 m Northwest of the Site | GEN | 2001 | Listed as registered waste generator for waste oils and lubricants. |



| Address/Business Name | Approximate Distance to the Site | Database Reviewed | Year | Potentially Contaminating Activities (PCAs)/Area of Interest (AOI) |
|--|--|-------------------|----------------------------------|---|
| 6 Cadetta Rd. (Coleraine Junkyard 1976) | Approximately 161 m Northwest of the Site | ANDR | 1976 | Anderson's Waste Disposal Sites database identified auto junkyard facility at this property. |
| 8 Cadetta Rd. (Forest Contractors Ltd.) | Approximately 165 m Northwest of the Site | GEN | 2012 to 2016 and as of Dec. 2018 | Listed as registered waste generator for waste crankcase oils and lubricants, and waste oil and lubricants. |
| 8 Cadetta Rd. (Coleraine Junkyard 1969) | Approximately 165 m Northwest of the Site | ANDR | 1969 | Anderson's Waste Disposal Sites database identified auto junkyard facility at this property. |
| 10 Cadetta Rd. (Alta Cranes Ltd.) | Approximately 226 m North/ Northwest of the Site | GEN | 1988 to 2001 | Listed as registered waste generator for petroleum distillates. |
| 10 Cadetta Rd. (Advance Fence and Wire) | Approximately 226 m North/ Northwest of the Site | GEN | 1996 to 2001 | Listed as registered waste generator for petroleum distillates and emulsified oils. |
| 10 Cadetta Rd. (Onsite Ready-Mix Inc.) | Approximately 226 m North/ Northwest of the Site | GEN | 2009 to 2011 | Listed as registered waste generator for waste oil and lubricants, and other specified inorganics. |
| 10 Cadetta Rd. (1105976 Ontario Limited) | Approximately 226 m North/ Northwest of the Site | GEN | 1995 | Listed as registered waste generator for emulsified oils. |
| 10 Cadetta Rd. (Magcrete Logistics) | Approximately 226 m North/ Northwest of the Site | GEN | 2014 to as of Dec. 2017 | Listed as registered waste generator for waste oil and lubricants. |
| 10 Cadetta Rd. (Dura Fence Ltd., Acculink Fence & Wire Inc., York Fence Company Ltd.) | Approximately 226 m North/ Northwest of the Site | SCT | unknown | Business listed for manufacturing fabricated wire products and ornamental and architectural metal products. |
| 12 Cadetta Rd. Terrapave Holdings Inc.) | Approximately 227 m Northwest of the Site | GEN | As of Dec. 2018 | Listed as registered waste generator for waste crankcase oils and lubricants |

| Address/Business Name | Approximate Distance to the Site | Database Reviewed | Year | Potentially Contaminating Activities (PCAs)/Area of Interest (AOI) |
|---|---|-------------------|--|---|
| 12 Cadetta Rd. (Greenstar Construction) | Approximately 227 m Northwest of the Site | GEN | 2015 to 2016 and as of Dec. 2018 | Listed as registered waste generator for waste crankcase oils and, oils and lubricants. |
| 12 Cadetta Rd. (Cedar Mills Welding) | Approximately 227 m Northwest of the Site | SCT | 1988 | Business established in 1988 for manufacturing of heavy gauge metal tanks and other miscellaneous fabricated metal product. |
| 14 Cadetta Rd. (D&D Tool & Machine Co.) | Approximately 248 m Northwest of the Site | SCT | 1974 | Business established in 1974 as a machine shop and general purpose machinery manufacturing. |
| 14 Cadetta Rd. (Time & Precision Co. Ltd.) | Approximately 270 m Northwest of the Site | GEN | 1993 to 1998 and 2005 | Listed as registered waste generator for emulsified oils and waste oils and lubricants |
| 16 Cadetta Rd. (Avenue Structures Corp., 1389147 Ontario Inc., Canform Structures Ltd., Avenue Building Corporation) | Approximately 149 m West/ Northwest of the Site | GEN | 1986 to 1990, 1992 to 2016 and as of Dec. 2018 | Listed as registered waste generator for waste crankcase oils and lubricants, petroleum distillates, waste oils and lubricants, pigments, coatings and paints, emulsified oils. |

| Address/Business Name | Approximate Distance to the Site | Database Reviewed | Year | Potentially Contaminating Activities (PCAs)/Area of Interest (AOI) |
|---|---|-------------------|--|--|
| 18 Cadetta Rd. (Tristar Coatings Ltd./Tristar Coating Ltd., Div. of Trebor Ind.) | Approximately 80 m Northwest of the Site | GEN | 1988 to 1990, 1992 to 2016 and as of Dec. 2018 | Listed as registered waste generator for pigments, coatings and paints, aromatic solvents and residues, polymeric resins, waste crankcase oils and lubricants, paint/pigment coating residues, aliphatic solvents. |
| | | SPL | 2008 | A spill of 60 L of oil to pavement ground surface by Purolator Courier Ltd. Cause not provided. Contamination reported as not anticipated. |
| | | SCT | 1971 | A business established in 1971 for paint and coating manufacturing. |
| 20 Cadetta Rd., Unit #7 (Roma Building Restoration Ltd.) | Approximately 86 m Northwest of the Site | GEN | As of Dec. 2018 | Listed as registered waste generator for waste crankcase oils and lubricants. |
| 20 Cadetta Rd. [Quality Fabricating and Machining (QFM) Ltd.] | Approximately 88 m Northwest of the Site | SCT | 1976 | A business established in 1976 for the manufacturing of iron and ferro-alloy; other miscellaneous fabricated metal products. |
| 22 Cadetta Rd. (Pilen Construction of Canada Ltd.) | Approximately 70 m North of the Site | GEN | 1986 to 1990, 1992 to 2010, 2012 to 2016 and as of Dec, 2018 | Listed as registered waste generator for aromatic solvents and residues, petroleum distillates, light fuels, waste oils/sludges (petroleum based), waste crankcase oils and lubricants. |
| | | PRT | 1993 | The Private and Retail Fuel Storage Tanks database identified licence issued to the business for a retail storage tank with a capacity of 2000 L; licence expired in 1995. |
| 24 Cadetta Rd. (Wyndale Paving Ltd.) | Approximately 104 m Northwest of the Site | GEN | 2015, 2016 and as of Dec 2018 | Listed as registered waste generator for petroleum distillates and waste crankcase oil/lubricants |

| Address/Business Name | Approximate Distance to the Site | Database Reviewed | Year | Potentially Contaminating Activities (PCAs)/Area of Interest (AOI) |
|---|--|-------------------|-----------------------------------|---|
| 24 Cadetta Rd. (Roma Fence Ltd.) | Approximately 104 m Northwest of the Site | SCT | 1969 | A business established in 1969 for manufacturing of cutlery and hand tools; plastic products; fabricated wire products; wood products; ornamental and architectural metal products; and miscellaneous fabricated metal products. |
| 6830 Rutherford Rd. (Canadian Pacific Railway) | Approximately 300 m East/ Northeast of the Site | GEN | 2001 to 2017, and as of Dec. 2018 | Listed as registered waste generator, including, but not limited to, aliphatic solvents, petroleum distillates, PCBs, acid wastes (heavy metals), waste oils & lubricants, oil skimmings and sludges, light fuels, organic laboratory chemicals, and alkaline wastes (heavy metals). |
| | | SPL | 2008 2009 2013 | Numerous reported spills, including, but not limited to: 150 L hydraulic fluid to a catch basin due to equipment failure, contamination reported as not anticipated; 250 L hydraulic fluid to asphalt due to leak, cleaned up, contamination reported as not anticipated; 1000 L hydraulic oil to ground, due to line break, cleaned up, contamination reported as not anticipated |
| 9601 Highway 50 (SLH Transport Inc.) | Approximately 189 m East/ Southeast of the Site | FST/FSTH | 2000 | The fuel storage tank database identified one 100,000 L active diesel fuel double wall AST installed in 2000 (tank status active as of October 2008) for private fuel outlet operations. |
| | | GEN | 1999 to 2016 and as of Dec. 2018 | Listed as registered waste generator for waste crankcase oils and lubricants, aliphatic solvents/residues, petroleum distillates, oil skimmings and sludges. |

| Address/Business Name | Approximate Distance to the Site | Database Reviewed | Year | Potentially Contaminating Activities (PCAs)/Area of Interest (AOI) |
|--|---|-------------------|----------------------------------|--|
| 9701 Highway 50 (Consolidated Fastrate (Ontario) Holdings Inc.) | Approximately 265 m North/ Northeast of the Site | GEN | 2000 to 2016 and as of Dec. 2018 | Listed as registered waste generator, including, but not limited to, alkaline solutions, wastes from the use of pigments, coatings and paints, aliphatic solvents and residues, petroleum distillates, light fuels, emulsified oils, polymeric resins, halogenated pesticides and herbicides and waste oils/sludges (petroleum based). |
| | | SPL | November 2003 | A spill of phenolic resin (volume not reported) to ground surface, caused by damage to moving containers. Contamination reported as possible to soil, groundwater and surface water. |
| | | | June 2006 | A spill of 76 L of oil to a settling pond. Cause not provided. Contamination reported as possible to soil, groundwater and surface water. |
| | | | March 2006 | A spill of varsol (volume not reported) caused by a pipe/hose malfunction. Cause not provided. Environmental impact not anticipated. |
| 9701 Highway 50 (JB Express) | Approximately 265 m North/ Northeast of the Site | GEN | 2015, 2016 and as of Dec. 2018 | Listed as registered waste generator of waste crankcase oils and lubricants |

List of Databases:

- ANDR - Anderson's Waste Disposal Sites
- FSTH - Fuel Storage Tank - Historic
- GEN - Ontario Regulation 347 Waste Generators Summary
- PRT - Private and Retail Fuel Storage Tanks
- SCT - Scott's Manufacturing Directory
- SPL - Ontario Spills

Other Properties/Records:

The Water Well Information System (WWIS) database identified three water wells on the Phase One Property. One well was classified for domestic water supply, constructed in 1977 to an approximate depth of 29 m. The second well was constructed in 2015 to a depth of 12 m, but later abandoned that same year.

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The third well was constructed in 2017 (no details provided). The static water levels for these wells were not provided.

In addition, twenty water wells were identified within a 300 m radius of the Site. These wells were constructed between 1967 and 2015 (status: three domestic water supply, one livestock/domestic water supply, two industrial water supply, one commercial water supply, one water supply, three observation wells, three test holes, one monitoring well, four abandoned [other] and one abandoned water supply). The depths of these wells range from approximately 4.6 m to 29.6 m with static water levels ranging from a depth of approximately 1.3 m to 9.5 m.

EcoLog ERIS also listed 67 unplotable records that indicated various commercial operations such as a trucking/transport businesses, gas station, distribution center, nursery and aggregate business. These records were reviewed for any PCAs in the vicinity of the Site. Based on the location description provided, the commercial operations identified appear to be further from the Site and not within the Phase One Study Area. As such, no impacts to soil and/or groundwater quality at the Site are anticipated from the unplotable commercial operations.

3.2.2 MECP Freedom of Information (FOI) Request

Phase One Property:

Under the FOI Act, a request was submitted to the Ministry of Environment, Conservation and Parks (MECP; previously called Ministry of the Environment [MOE]) in June 2019 to obtain available records for the Site.

A response was provided by the MECP on July 19, 2019. According to the MCEP an Occurrence Report was filed in August 1992 for a reported diesel spill of 80 L from an overturned truck due to an accident on the road adjacent to the Site. No migration of the fuel to the Site was anticipated and no further action was taken.

A copy of the MECP FOI request submission and their response is provided in Appendix E.

3.2.3 Local Municipality

Municipal directories search obtained from EcoLog indicated Brampton, Ontario is listed in the local municipal directories archives for the years 1958, 1967, 1972-1973, 1977-1978, 1983, 1989, 1994 and 2000. The results are summarized below, and a copy of the directories search provided by EcoLog is attached as Appendix F:

Phase One Property:

| Year | Listing |
|--|--|
| 1958, 1966, 1972-1973, 1977-1978, 1983, 1989, 1994 and 2000. | The property use for the Phase One Property was not listed in directories for any these years. |

Surrounding Properties:

The surrounding properties with the addresses of 2, 16, 18, 20 and 22 Cadetta Road in Brampton, Ontario (Figure 3) that are immediately adjacent to the Site or suspected to have PCAs were searched. These properties were also searched to assist in determining the historical land use in the vicinity of the Site. The following information was obtained:

- › None of the searched properties were listed in the directories for the years 1958, 1966, 1972-1973, 1977-1978, 1983 and 2000.
- › 2 Cadetta Road was not listed in the directories for the years 1958, 1966, 1972-1973, 1977-1978, 1983, 1989, 1994 and 2000.
- › 16 Cadetta Road was listed as Avenue Structures in 1994, but not listed in 1989.
- › 18 Cadetta Road was listed as Tristar Coatings Ltd. in 1994 and as Wedgeloc Industries Ltd. in 1989.
- › 20 Cadetta Road was listed as Deform Construction Ltd. and Quality Fabricating & Machining Ltd. in 1994, and as F&J Sales Co. Ltd., Pedrix Technologies and Quality Fabricating & Machining Ltd in 1989.
- › 22 Cadetta Road was listed as Pilen Construction of Canada Ltd. in 1994 and 1989.

No changes in the surrounding land use was identified in the updated municipal directories search completed.

No issues of significant environmental concern were identified with regards to the surrounding properties within 300 m of the Phase One Property to suggest that the Phase One ESA Study Area should be expanded beyond the 300 m radial distance.

3.2.4 TSSA Records Search

An email request was submitted to the Technical Standards and Safety Authority (TSSA) on June 14, 2019. SNC Lavalin received a response indicating that there were no records in their database of any fuel storage tanks at the Site or at properties searched in the vicinity of the Site.

TSSA did not register private fuel storage tanks prior to January 1990. Information provided by the TSSA is provided in Appendix G.

3.3 Physical Setting Sources

3.3.1 Aerial Photographs

Aerial photographs for the years 1946, 1951, 1960, 1969, 1976, 1985, 1994, 2005, 2015 and 2018 for the Site and surrounding areas were reviewed to investigate previous land use and Site development history. The significant observations made are summarized below.

| Date | Observations |
|-----------------------------------|--|
| 1946 A10117-68 (Figure H.1) | The Site appears to be used for agricultural purposes with no structures visible. Highway 50 is visible to the west of the Site. Several structures are located immediately to the south of the Site (associated with southern portion of 10192 Highway 50, Brampton). A structure is located on the adjacent property to the north. |

| Date | Observations |
|--|--|
| | Land use in the vicinity of the Site appears to be vacant and/or used for agricultural purposes. Rainbow Creek is visible at the northwest corner of the Site. |
| 1951 A13118-127 (Figure H.2) | No significant change of the Site and surrounding properties was observed in the 1951 aerial photograph when compared to the one from 1946. |
| 1960 A16997-5 (Figure H.3) | No significant change at the Site was observed in the 1960 aerial photograph when compared to the one from 1951. Some regrading of the property to the north is noted, that was not apparent in the 1951 photograph. No other significant changes were noted in the surrounding properties. |
| 1969 A20263-78 (Figure H.4) | No significant change at the Site and surrounding properties was observed in the 1969 aerial photograph when compared to the one from 1960. |
| 1976 A24319-92 (Figure H.5) | No significant change at the Site and surrounding properties was observed in the 1976 aerial photograph when compared to the one from 1969. Highway 50 now appears to have been widened. |
| 1985 A31404-105 (Figure H.6) | No significant change at the Site was observed in the 1985 aerial photograph when compared to the one from 1976, however, interpretation was limited due to poor quality aerial photograph. Significant regrading/clearing of the property to the north of the Site along Cadetta Road is now noted. No other significant changes were noted in the surrounding properties. |
| 1994 City of Brampton (Online Map) (Figure H.7) | No significant change at the Site was observed in the 1994 aerial photograph when compared to the one from 1985, however, interpretation was limited due to poor quality aerial photograph. Additional structures are noted immediately to the south of the Site (associated with 10192 Highway 50, Brampton). Significant development is noted the property to the north, with buildings now present and Cadetta Road visible. Redevelopment of the properties to the east of the Site is noted, specifically the presence of a rail yard. No other significant changes were noted in the surrounding properties. |
| 2005 City of Brampton (Online Map) (Figure H.8) | No significant change at the Site was observed in the 2005 aerial photograph when compared to the one from 1994. Further development of the property to the north of the Site, and to the west of Highway 50 is noted. No other significant changes were noted in the surrounding properties. |
| 2015 City of Brampton (Online Map) (Figure H.9) | A structure is now noted along the south property boundary line on Parcel A of the Site. No other significant changes are noted with the Site. Further development of what appears to be a parking lot, on the property to the east of Highway 50 is noted. No significant changes to the surrounding property to the north of the Site was observed in the 2015 aerial photograph when compared to the one from 2005. No other significant changes were noted in the surrounding properties. |
| 2018 | The northeast portion of the Site (i.e., Parcel A1) is observed to have been cleared/regraded. No other significant changes are noted with the Site. No significant |

| Date | Observations |
|---|---|
| Google Earth Pro Image (Figure H.10) | change to the surrounding properties was observed in the 2018 aerial photograph when compared to the one from 2015. |

The original aerial photographs cover a large area and provide only large scale (low resolution) information. Detailed interpretation of these photographs is precluded. Observations from the aerial photographs are consistent with other records reviewed. Copies of the aerial photographs for the selected years are provided in Appendix H.

3.3.2 Topography, Hydrology and Geology

The topography at the Site is generally flat with a slight slope towards the west. The Site elevation is approximately 209 m above mean sea level (amsl). The nearest surface water body is Rainbow Creek that crosses the northwest corner of the Site. A figure showing the topography of the Site is provided as Figure I.1 in Appendix I.

Based on the historical monitoring data available, the depth to groundwater at Parcel A1 ranges from approximately 2.6 m to 4.0 m bgs. It is anticipated that a similar water table depth would be encountered at Parcels A and B. The shallow groundwater flow at Parcel A1 Site was not determined, however, based on the topography of the entire Site, it is anticipated that groundwater flow is towards the south/south west towards Rainbow Creek.

The regional surface geology, as interpreted from Map 2556, Quaternary Geology of Ontario, Southern Sheet (Barnett et. al., 1991), comprises Glaciolacustrine deposit, predominantly silt and silt clay with minor sand.

No previous grain size analysis was performed for the Phase One Property, including the limited Phase II ESA completed at Parcel A1.

The bedrock geology in the area belongs to the group of the Georgian Bay Formation; Blue Mountain Formation; Billings Formation; Collingwood Member, and Eastview Member consisting of shale, limestone, dolostone and siltstone (Ontario Geological Survey, 2011).

3.3.3 Fill Materials

Parcel A1 of the Phase One Property is currently owed by the City. As noted in the aerial photographs, the northeast portion of Parcel A1 was regarded/cleared. Based on the site reconnaissance in May 2019 (discussed further below), a layer of crushed stone/asphalt has been placed over the regraded area.

3.3.4 Water Bodies and Areas of Natural Significance

The nearest surface water body is Rainbow Creek that crosses the northwest corner of the Phase One Property.

Based on a review of the topography, regional groundwater flow appears to south/southwest and toward this surface water body.

A search of the Natural Heritage Information Centre (NHIC) online database was conducted for threatened or endangered species on or near the Site. A list of the noted species is presented in the following table. Species for which either the most recent observed date is greater than 30 years ago or the NHIC considers less threatened than “vulnerable” were not considered.

| Species Name | Common Name | Description | Provincial Rank (S-Rank) | Date Last Observed |
|-----------------------------|-------------------|-------------|--------------------------|--------------------|
| <i>Monarda didyma</i> | Scarlet Beebalm | Plant | S3 | 1948-08-04 |
| <i>Emydoidea blandingii</i> | Blanding's Turtle | Animal | S3 | 1986-05-24 |

Key: S3 – Vulnerable

The NHIC database identified no threatened or endangered species at risk in the general area of the Site; however, it identified one vulnerable plant species and one vulnerable animal species, as indicated above in the vicinity of the Site and surrounding area. The Site is undeveloped/farmland and has Rainbow Creek crossing the northwest corner of the Site; as such, the Site may be suitable habitat to promote the growth of the plant species and sustain the animal. The adjacent properties to the north and properties located to the east of Highway 50 are predominantly developed and would not likely be suitable habitat for this type of plant and animal species, however there is undeveloped/farmland land to the west (cross gradient) and south (down gradient) of the Site.

The NHIC database search, review of the Ministry of Natural Resources and Forestry maps of Natural Heritage System and Areas and Areas of Natural and Scientific Interest (ANSI), and review of ANSI map provided by EcoLog did not identify any ANSI, provincially significant wetlands (PSW) or provincial parks within 300 m of the Site; therefore, the Site is not located within an area of natural significance.

The topographic map and the ANSI map from EcoLog that includes the Phase One Study Area are provided in as Figure I.1 in Appendix I.

3.3.5 Water Well Records

According to the Regional Municipality of York (York Region, 2016), a wellhead protection zone (i.e., Kleinburg Well No. 3 WHPA-D) is located approximately 1.7 km to the northeast of the Site. A review of MECP water well records identified nine water supply wells for domestic/industrial use within a 300 m radius of the Site. It is not known how many of these wells are currently in use. The wells were drilled from 1966 to 2000 and installed to depths of approximately 12 m to 37 m bgs. The well logs generally described clay with sand and gravel material from surface to a depth of approximately 8.0 m bgs, with clay below.

A copy of the information obtained from the MECP water well data system is provided in Appendix J. The approximate location of the identified wells within the 300 m radius is provided in Figure J.1.

4 Interview

An interview with the property owner (Mr. James. F. Johnston) of Parcel A associated with the Phase One Property was completed by SNC-Lavalin through a questionnaire submitted via email to the City which was forwarded to Mr. Johnston. A copy of the questionnaire dated May 16, 2019 is provided in Appendix K. The following information was obtained:

- › Mr. Johnston, the current Site owner, has owned Parcels A and B, since 1992, and has been used for agricultural purposes since 1842.
- › According to Mr. Johnston, the Site is not municipally serviced, nor is there the presence of a septic tank and field. The Site also has not been previously serviced with either heating oil or coal, nor has it been serviced with natural gas and hydro.
- › Mr. Johnston is not aware of any above ground or underground storage tanks (AST/UST) or storage of chemicals at the Site. He indicated that storage of chemicals and a fuel AST is located on the property immediately to the south of the Site.
- › Mr. Johnston reported that he is not aware of any spills or leaks caused by farming machinery either at the Site or adjacent properties.
- › The existing on-site structure is only used to store farm machinery. Mr. Johnston was not aware of any asbestos containing material associated with the structure.
- › Mr. Johnston is not aware of any previous environmental reports associated with the Site.
- › The “industrial” properties immediately to the north were established in the 1990s.

No other information suggesting significant potential impacts to the environmental condition of the Site was revealed at the time of the interview.

5 Site Reconnaissance

5.1 General Requirements

SNC-Lavalin personnel, Mr. Abed Yassine, P. Geo. (Senior Geoscientist) conducted a Site inspection on May 10, 2019. The weather conditions noted at the time of inspection was 17 degrees Celsius with periods of rain. The approximate length of time of the inspection was two hours. The purpose of the Site inspection was to assess Site conditions and corroborate the results of the records review in order to identify APECs.

The Site layout at the time of the inspections is presented in Figure 2. Photographs taken during the inspection are included in Appendix L.

5.2 Specific Observations at Phase One Property

5.2.1 Above Ground Structures

The Site includes a single-story metal shed with slanted roof located in the center of the south edge of the Site (i.e., Parcel A). The majority of the Site predominantly consists of farm fields with a re-graded portion, for parking of City maintenance vehicles, located at the northeast section of the Site (i.e., Parcel A1). The re-graded area of the Site was observed to have a layer of crushed stone/asphalt pieces. Wood pole light standards (without lighting fixtures) were noted to be along the south and west perimeter of the parking area. Two mobile construction job site type trailers used for offices by City's Works Department personnel were located adjacent to the north property boundary line. Above ground hydro lines were connected to the two trailers and also to the light standards.

5.2.2 Below Ground Structures

No below ground structures were observed during the site inspection.

5.2.3 Storage Tanks

No storage tanks were observed during the site inspection.

5.2.4 Potable and Non-Potable Water Usage

No potable water wells were noted on the Phase One Property during the site visit. The WWIS database identified one water well (status: domestic water supply) constructed in 1977 to an approximate depth of 29.6 m, on the remainder of the property having municipal address 10192 Highway 50, located to the south of the Phase One Property.

5.2.5 Site Features

Utilities

The northeast portion of the Site (i.e., Parcel A1) that has the two trailers and light standards are connected to hydro via above ground wires. No other utilities were noted during the site inspection.

Ground Cover

The Site is predominantly covered with topsoil and vegetative areas of grass/weeds and mature trees located at various locations along the north and west property boundaries. A layer (depth not confirmed) of crushed stone/asphalt covers the re-graded area at the northeast corner of the Site within Parcel A1. A low-rise earthen berm, presumably constructed from re-grading the northeast portion of the Site, is located along the west portion of the re-graded area. A gravel layer covers a driveway along a portion of the southeast edge of Parcel B.

Railway Lines

There are no railway lines at or adjacent to the Site. Railway lines are present more than 300 m east of the Site.

Ground Staining

Staining of the ground surface was observed in the metal storage shed during the site inspection.

Stressed Vegetation

No evidence of stressed vegetation was noted during the site inspection.

Evidence of Fill Materials

As noted, a layer of crushed stone/asphalt of fill was placed on the re-graded portion of the Site within Parcel A1. No other evidence of fill material was observed during the site inspection.

Potentially Contaminating Activities

Historical on-Site Potential Contaminating Activities (PCAs) are discussed in Section 6. PCAs observed during the 2019 site inspection included:

- › Current and historical use of the Site for agricultural purposes.
- › Use of fill material of unknown quality at the northeast corner of the Site, within Parcel A1.
- › Metal shed for storage of farm machinery/equipment located at the south end of the Site, Parcel A.

Unidentified Substances

No unidentified substances were observed at the time of the site inspection.

Topography and Drainage

The topography at the Site was observed to be generally flat with slight slope downward to the west. Runoff from the Site is directed to towards Rainbow Creek which crosses the northwest corner of the Site.

Site Access

The Site is located on the northwest corner of the intersection of Highway 50 and Cadetta Road. Access to Site is by Cadetta Road through Parcel A1.

Waste Materials

Non-hazardous waste material consisting of several garbage bags of grass/weed clippings, plastic flexible drainage tubes and pieces of concrete were noted to be located at various locations in the vicinity of the parking lot associated with Parcel A1. No other waste material was observed on the remainder of the Site at the time of the site inspection.

Pits or Lagoons

No pits or lagoons were identified at the Site during the site inspection.

Standing Water

No standing water was observed at the time of the site inspection.

Bedrock Outcrops

Bedrock outcrops were not observed during the site inspection.

Spills

No spills were observed during the Site inspection.

Air Emissions

No air emissions were noted at the time of the site inspection.

Odour

No odours were noted on the Site at the time of the site inspection.

5.2.6 Enhanced Investigation at the Property

The Site is not considered an 'enhanced investigation property' as defined by O. Reg. 153/04, as amended.

5.3 Surrounding Properties

Adjacent and surrounding properties were observed from the boundaries of the Phase One property and from publicly accessible areas. Property uses on adjacent properties are described in Section 3.1.1.

The following observations were made regarding adjacent properties:

- › **North:** Cadetta Road and commercial businesses (2, 16, 18 20 and 22 Cadetta Road). Vehicles (i.e., trucks, cars and backhoe) were parked on properties located to the northwest, on the north side of Cadetta Road, and construction machinery along with metal sea crates were noted to be located on properties to the north of the Site.
- › **South:** Remainder of the property having municipal address 10192 Highway 50. Two residential dwellings, nine barns for storage and/or livestock, and agricultural fields. An AST contained dyed diesel fuel is located immediately to the south of the metal storage shed.
- › **East:** Highway 50 then CP rail yard and commercial businesses (9601 and 9701 Highway 50) beyond.

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- › **West:** Agricultural fields.

Potential impacts to soil and/or groundwater quality at the Site are anticipated resulting from the current commercial operations located adjacent to the north of the Site, and the commercial business to the east, and presence of the AST located on the property to the south.

5.4 Written Description of Investigation

The Site reconnaissance was conducted by visiting and observing the Phase One Property and publicly accessible portions of the Phase One Study Area. Preliminary information obtained from the records review was considered prior to conducting the inspection.

Based on the specific observations for the Phase One Property and historical records review, on-site APECs associated with current and historical PCAs, and AOI are presented below. AOI are activities or observations of conditions that may have the potential to adversely affect soil and groundwater conditions at the Site, but do not meet the MECP definition of a PCA.

- › Historical and current agricultural uses;
- › Storage of farm equipment/machinery; and,
- › Fill material of unknown quality.

Based on the specific observations for the Phase One Study Area, the following off-site PCAs and AOI were identified:

- › Current and historical industrial businesses located to the north and east; and,
- › Current and historical petroleum fuel handling associated with the AST located to the south.

Details of these observed areas of PCAs and AOIs, issues identified from records review and resulting APECs are presented in Section 6.

6 Review and Evaluation of Information

6.1 Review and Evaluations

6.1.1 Current and Past Uses

The following provides a general overview of the history of the Site and surrounding properties based on the information reviewed as part of this Phase One ESA. The current Site layout is presented in Figure 2.

The current Phase One Property consists of two PINs (14213-0276 [Parcel A1] and a portion [Parcels A and B] of 14213-0300) transferred and owned by various individuals and/or corporation over the years. A summary of current and past uses of the Phase One Property obtained from the chain of title reports is provided below:

PIN 14213-0276

| Year | Name of Owner | Description of Property Use | Property Use ¹ | Other Observations from Aerial Photographs, Fire Insurance Plans, etc. |
|---|--------------------|---|------------------------------------|--|
| <i>PT LT 12 CON 11 ND Toronto Gore; designated as Part 5 on Plan 43R33140; City of Brampton</i> | | | | |
| May 19, 1830 | The Crown | Presumed undeveloped | Agricultural or other | No additional records available to assess property use |
| May 1830 to October 1831 | James Durand | Presumed residential/ agricultural or undeveloped | Residential/ Agricultural or other | No additional records available to assess property use |
| October 1831 to April 1842 | Andrew Mercer | Presumed residential/ agricultural or undeveloped | Residential/ Agricultural or other | No additional records available to assess property use |
| April 1842 to April 1857 | Alexander Johnston | Presumed residential/ agricultural or undeveloped | Residential/ Agricultural or other | No additional records available to assess property use |
| April 1857 to December 1865 | David Johnston | Presumed residential/ agricultural or undeveloped | Residential/ Agricultural or other | No additional records available to assess property use |
| December 1865 to September 1868 | William Johnston | Presumed residential/ agricultural or undeveloped | Residential/ Agricultural or other | No additional records available to assess property use |

| Year | Name of Owner | Description of Property Use | Property Use ¹ | Other Observations from Aerial Photographs, Fire Insurance Plans, etc. |
|---------------------------------|---|--|------------------------------------|--|
| September 1868 to February 1891 | David Johnston | Presumed residential/ agricultural or undeveloped | Residential/ Agricultural or other | No additional records available to assess property use |
| February 1891 to March 1959 | John Johnston (estate of John Johnston) | Presumed residential/ agricultural or undeveloped prior to 1946. Agricultural after 1946. | Residential/ Agricultural or other | The 1946 and 1951 aerial photographs show agricultural fields with no structures visible. |
| March 1959 to July 1959 | Eldred Johnston | Agricultural | Residential/ Agricultural or other | Aerial photographs from 1960, 1968, 1976, 1985, 1994 and 2005 show agricultural fields with no structures visible. |
| July 1959 to March 1993 | Clarence Alexander Johnston | Agricultural | Residential/ Agricultural or other | |
| March 1993 to May 2010 | James Frazer Johnston | Agricultural | Residential/ Agricultural or other | |
| May 2010 to Present | The Corporation of The City of Brampton | Agricultural | Residential/ Agricultural or other | |

¹ – Property use as defined in O.Reg.153/04.

PIN 14213-0300

| Year | Name of Owner | Description of Property Use | Property Use ¹ | Other Observations from Aerial Photographs, Fire Insurance Plans, etc. |
|--|----------------------------------|--|------------------------------------|---|
| <i>PT LTS 11 AND 12, CON 11 ND, (Formerly TWP of Toronto Gore) Designated as PTS 2,3, 4 & 5 43R36614; City of Brampton</i> | | | | |
| May 19, 1830 to May 2010 | Same ownership as PIN 14213-0276 | Presumed residential/ agricultural or undeveloped prior to 1946. Agricultural after 1946. | Residential/ Agricultural or other | The 1946, 1951, 1969, 1976, 1985, 1994 and 2005 aerial photographs show agricultural fields with no structures visible. Several structures are located immediately to the south of the Site (associated with 10192 Highway 50, Brampton). |

| Year | Name of Owner | Description of Property Use | Property Use ¹ | Other Observations from Aerial Photographs, Fire Insurance Plans, etc. |
|---------------------|-----------------------|-----------------------------|------------------------------------|---|
| May 2010 to Present | James Frazer Johnston | Agricultural | Residential/ Agricultural or other | The 2015 aerial photograph shows a structure is along the south property boundary line of the Phase One Property. |

¹ – Property use as defined in O.Reg.153/04.

6.1.2 Potential Contaminating Activity

6.1.2.1 Potentially Contaminating Activities On-Site

Based on the records review, observations made during the inspection and information gathered through interviews, PCAs and AOIs were identified at the Site. This information is summarized below and in Figure 4.

| Address | PCA No. | PCA and AOI | Location of APEC on Phase One Property | APEC No. | Rationale/Evaluation |
|--|---------|--|--|----------|--|
| 10192 Highway 50 (Parcels A, A1 and B) | 40 | Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications | General Site area | 1 | Potential impacts due to historical and current activities associated with agriculture/farming. |
| | 30 | Importation of Fill Material of Unknown Quality | Northeast corner | 2 | Presence of crushed stone/and asphalt pieces. |
| | N/A | Storage of farm machinery/equipment | Along south property boundary | 3 | Potential impacts due to storage of farm equipment/machinery: leaks due to motor oil, hydraulic oil, and/or fuel (gasoline and/or diesel). |

6.1.2.2 Potentially Contaminating Activities Off-Site

Based on records review, observations made during the inspection and information gathered through interviews, PCAs and AOIs were identified on properties within the Phase One study area that may be contributing to on-site conditions. This information is summarized below and in Figure 4.



| Address | PCA No. | PCA and AOI | Location of APEC on Phase One Property | APEC No. | Rationale/Evaluation |
|---|---------|--|---|----------|--|
| 10192 Highway 50 (Remainder of property) | 28 | Gasoline and associated products storage in fixed tanks. | Along south property boundary (south of the metal storage shed) | 5 | Potential impacts due to petroleum fuel handling and storage. |
| 2 Cadetta Rd. (Approximately 44 m North of the Site) | N/A | Documented spill of unknown volume of diesel fuel to ground surface. | None | N/A | Spill due to unattended vehicle while filling. Reported confirmed impacts to soil. Impacts to groundwater not known. Cadetta Rd. located to the south of the property and north of the Site. Backfill material of buried utilities along Cadetta Rd. would likely serve as a conduit for groundwater flow, and thus potentially impacted groundwater reaching the Site would be minimal. |
| 6 Cadetta Rd. (Approximately 161 m Northwest of the Site) | N/A | Registered waste generator of waste oils and lubricants. | None | N/A | Joe Gallo Bros. Paving Ltd. exists at this location; however, it is not considered likely to give rise to an APEC based on the intervening distance to the Site. |
| 8 Cadetta Rd. (Approximately 165 m Northwest of the Site) | N/A | Various businesses: registered waste generators of waste crankcase oils and lubricants, and waste oil and lubricants, petroleum distillates, emulsified oils, and/or other specified inorganics. | None | N/A | Forest Contractors Ltd. exists at this location; however, it is not considered likely to give rise to an APEC based on the intervening distance to the Site. |
| | 34 | Metal fabrication | | | |
| 10 Cadetta Rd. (Approximately 226 m North/ Northwest of the Site) | N/A | Various businesses: registered waste for petroleum distillates, emulsified oils, waste oil and lubricants, and other specified inorganics. | None | N/A | Alta Cranes Ltd., Advance Fence and Wire, Onsite Ready-Mix Inc., Dura Fence Ltd., Acculink Fence & Wire Inc., York Fence Company Ltd. exist at this location, however, it is not considered likely to give rise to an APEC based on the intervening distance to the Site. |
| | 34 | Metal fabrication | | | |



| Address | PCA No. | PCA and AOI | Location of APEC on Phase One Property | APEC No. | Rationale/Evaluation |
|---|----------------|--|--|------------|--|
| 12 Cadetta Rd. (Approximately 227 m Northwest of the Site) | N/A 34 | Various business: registered waste generators of waste crankcase oils and lubricants, and/or oils and lubricants. Metal fabrication | None | N/A | Terrapave Holdings Inc., Greenstar Construction, and Cedar Mills Welding exist at this location, however, it is not considered likely to give rise to an APEC based on the intervening distance to the Site. |
| 14 Cadetta Rd. (Approximately 248 m Northwest of the Site) | 34 | Metal fabrication | None | N/A | D&D Tool & Machine Co. and Time & Precision Co. Ltd. exist at this location, however, it is not considered likely to give rise to an APEC based on the intervening distance to the Site. |
| 16 Cadetta Rd. (Approximately 149 m West/ Northwest of the Site) | N/A | Registered waste generator of waste crankcase oils and lubricants, petroleum distillates, waste oils and lubricants, pigments, coatings and paints, emulsified oils. | Along north property boundary/ north west corner | 6 | Avenue Structures Corp., 1389147 Ontario Inc., and Canform Structure Ltd. exist at this location. Potential impacts due to generation of petroleum hydrocarbon based wastes in close proximity to the Site. |
| 18 Cadetta Rd. (Approximately 80 m Northwest of the Site) | N/A N/A | Registered waste generator of pigments, coatings and paints, aromatic solvents and residues, polymeric resins, waste crankcase oils and lubricants, paint/pigment coating residues, aliphatic solvents. Documented spill of 60 L of oil to pavement ground surface. | Along north property boundary/ north west corner | 6 | Tristar Coatings Ltd. exists at this location. Potential impacts due to generation of petroleum hydrocarbon-based wastes and solvents in close proximity to the Site. |
| 20 Cadetta Rd., Unit #7 (Approximately 86 m Northwest of the Site) | N/A 34 | Registered waste generator of waste crankcase oils and lubricants. Metal fabrication | Along north property boundary | 6 7 | Roma Building Restoration Ltd. and QFM Ltd. exist at this location. Potential impacts due to generation of petroleum hydrocarbon-based wastes and activities associated with metal fabrication in close proximity to the Site. |



| Address | PCA No. | PCA and AOI | Location of APEC on Phase One Property | APEC No. | Rationale/Evaluation |
|--|---------------|---|--|------------|---|
| 22 Cadetta Rd. (Approximately 70 m North of the Site) | N/A | Registered waste generator for aromatic solvents and residues, petroleum distillates, light fuels, waste oils/sludges (petroleum based), waste crankcase oils and lubricants. | Along north property boundary | 6 | Pilen Construction of Canada Ltd. exists at this location. Potential impacts due to generation of petroleum hydrocarbon-based wastes and solvents in close proximity to the Site. |
| 24 Cadetta Rd. (Approximately 104 m Northwest of the Site) | N/A 34 | Registered waste generator of petroleum distillates and waste oil/lubricants Metal fabrication | Along north property boundary | 6 7 | Wyndale Paving Ltd. and Roma Fence Ltd. exists at this location. Potential impacts due to generation of petroleum hydrocarbon-based wastes and activities associated with metal fabrication in close proximity to the Site. |
| 6830 Rutherford Rd. (Approximately 300 m East/ Northeast of the Site) | NA | Registered waste generator including, but not limited to, aliphatic solvents, petroleum distillates, PCBs, acid wastes (heavy metals), waste oils & lubricants, oil skimmings and sludges, light fuels, organic laboratory chemicals, and alkaline wastes (heavy metals). | None | N/A | Canadian Pacific Railway exists at this location, however due the intervening distance and cross-gradient location to inferred groundwater flow direction, it is not considered likely to give rise to an APEC based on the intervening distance to the Site. |
| 9601 Highway 50 (Approximately 189 m East/ Southeast of the Site) | 28 N/A | Gasoline and associated products storage in fixed tanks. Registered waste generator for waste crankcase oils and lubricants, aliphatic solvents/residues, petroleum distillates, oil/ skimmings and sludges. | None | N/A | SLH Transport Inc. exists at this location, however due the intervening distance and downgradient location, it is not considered likely to give rise to an APEC based on the intervening distance to the Site. |
| 9701 Highway 50 (Approximately 265 m North/ Northeast of the Site) | N/A | Registered waste generator, including, but not limited to, alkaline solutions, wastes from the use of pigments, coatings and paints, aliphatic solvents and | Along east property boundary | 4 | Consolidated Fastrate Inc. exists at this location. Potential impacts to groundwater as the property is located upgradient of inferred groundwater flow direction. |

| Address | PCA No. | PCA and AOI | Location of APEC on Phase One Property | APEC No. | Rationale/Evaluation |
|---------|---------|--|--|----------|----------------------|
| | | residues, petroleum distillates, light fuels, polymeric resins, halogenated pesticides and herbicides and waste oils/sludges (petroleum based). Documented spills to ground surface: phenolic resin (unknown volume), 76 L of oil, and varsol (unknown volume). | | | |

6.1.3 Areas of Potential Environmental Concern

Based on records review, observations made during the inspection and information gathered from other sources, four APECs were identified for the Phase One Property. These APECs are presented on Figure 5 and are summarized below:

| Area of Potential Environmental Concern ¹ | Location of Area of Potential Environmental Concern on Phase One Property | Potential Contaminating Activity ² | Location of PCA (on-site or off-site) | Contaminants of Potential Concern ³ | Media Potentially Impacted (Ground water, soil and/or sediment) |
|--|---|---|---------------------------------------|--|---|
| 1 | General Site area | Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications | On-site | Herbicides & Pesticides and Metals/ Inorganics | Soil and Groundwater |
| 2 | Northeast corner | Importation of Fill Material of Unknown Quality | On-site | PAHs and Metals/ Inorganics | Soil and Groundwater |
| 3 | Along south property boundary (storage of | NA | On-site | BTEX, PHC F1-F4, and PAHs | Soil and Groundwater |

| Area of Potential Environmental Concern ¹ | Location of Area of Potential Environmental Concern on Phase One Property | Potential Contaminating Activity ² | Location of PCA (on-site or off-site) | Contaminants of Potential Concern ³ | Media Potentially Impacted (Ground water, soil and/or sediment) |
|--|--|--|---------------------------------------|--|---|
| | farm machinery/ equipment) | | | | |
| 4 | Along east property boundary (commercial business located at 9701 Highway 50 [upgradient] of the Site documented waste generator and spills) | N/A | Off-site | BTEX, PHC F1-F4, VOCs, PAHs and Metals/ Inorganics | Groundwater |
| 5 | Along south property boundary (south of the metal storage shed) | Gasoline and associated products storage in fixed tanks. | Off-site | BTEX, PHC F1-F4, and PAHs | Soil and Groundwater |
| 6 | Along north property boundary (waste generators) | N/A | Off-site | BTEX, PHC F1-F4, VOCs, PAHs and Metals/ Inorganics | Soil and Groundwater |
| 7 | Along north property boundary | Metal fabrication | Off-site | VOCs and Metals/ Inorganics | Soil and Groundwater |

Notes:

¹ – Area of potential environmental concern means the area on, in or under a phase one property where one or more contaminants are potentially present, as determined through the phase one environmental Site assessment

² - Potentially contaminating activity means a use or activity set out in Column A of Table 2 of Schedule D that is occurring or has occurred in a phase one study area

³ – Potential contaminants of concern identified using the Method Groups as identified in the “Protocol for in the Assessment of Properties under Part XV.1 of the Environmental Protection Act, March 9, 2004, as amended.

BTEX Benzene, Toluene, Ethylene, Xylene
 PHC Petroleum Hydrocarbon
 VOC Volatile Organic Carbon
 PAH Polycyclic Aromatic Hydrocarbon

6.1.4 Phase One Conceptual Site Model (CSM)

A pictorial representation of the CSM is shown in Figures 4 and 5 and presents the following:

- › Existing buildings, structures, roadways and their names within the Phase One Study Area;
- › Water bodies and ANSIs, if any, within the Phase One Study Area (Section 3.3.4);
- › Water wells, if any, located on the Phase One property (Section 3.3.5);
- › Land uses adjacent to the Phase One property;
- › Areas of PCAs and APECs, if any, within the Phase One Study Area (Section 6.1.2 and Section 6.1.3, respectively).

The topography at the Site is generally flat with a slight slope towards the west. The Site elevation is approximately 209 m amsl. The nearest surface water body is Rainbow Creek that crosses the northwest corner of the Site.

Based on the historical monitoring data available, the depth to groundwater at Parcel A1 ranges from approximately 2.6 m to 4.0 m bgs. It is anticipated that a similar water table depth would be encountered at Parcels A and B. The shallow groundwater flow at Parcel A1 was not determined, however, based on the topography of the entire Site, it is anticipated that groundwater flow is towards the south/south west towards Rainbow Creek.

The regional surface geology, as interpreted from Map 2556, Quaternary Geology of Ontario, Southern Sheet (Barnett et. al., 1991), comprises Glaciolacustrine deposit, predominantly silt and silty clay with minor sand. The bedrock geology in the area belongs to the group of the Georgian Bay Formation; Blue Mountain Formation; Billings Formation; Collingwood Member, and Eastview Member consisting of shale, limestone, dolostone and siltstone (Ontario Geological Survey, 2011).

The previous environmental investigation completed on Parcel A1, indicated that the shallow overburden in this portion of the Site generally comprises topsoil to depths of approximately 0.28 m underlain by clayey/silt till to an approximate depth of 3.1 m underlain by a sandy silt till to depths of between 4.9 and 7.8 m bgs.

Based on review of the previous environmental investigation completed on Parcel A1, no impacts to soil or groundwater associated with historic site use including potential pesticides were identified. No indications of adverse impacts from the adjacent properties located to the north were identified at the selected test locations. It was recommended that a more comprehensive investigation of soil and groundwater be completed in close proximity to the north property boundary to evaluate potential impacts from industrial activities on these adjacent north properties.

Based on the historical use of the Site for agricultural purposes, storage of farm machinery/equipment, importation of fill of unknown quality, and off-site activities that may impact the Site associated with petroleum fuel handling and storage activities, waste generation and metal fabrication; potential contaminants of concern (PCOC) were identified as BTEX, PHC F1 to F4, VOCs, PAHs, metals/inorganics and herbicide & pesticides, in soil and groundwater.

6.2 Uncertainties

No uncertainties were noted.

7 Conclusions

7.1 Summary and Conclusions

Based on the above information, the following conclusions are provided:

- › First developed use of the Phase One Property was determined to be post 2005.
- › Review of the chain of title indicated the Phase One Property consists of two PINs (14213-0276 and a portion of 14213-0300) transferred and owned by various individuals and/or corporation over the years. PIN 14213-0276 was owned by private individuals from 1830 to 2010, when it was purchased by the City of Brampton. PIN 14213-0300 has been owned by the same private individuals as PIN 14213-0276 since 1830 to present.
- › Current and historical commercial/industrial operations were recorded in the vicinity of the Site; immediately adjacent to the north property boundary and to the east of Highway 50. Based on the intervening distance to the Site and/or expected direction of groundwater flow to the south/southwest, potential impacts to soil and/or groundwater quality at the Site are anticipated resulting from the current and historical commercial/industrial operations on these properties.
- › The Site interview indicated the metal storage shed located on PIN 14213-0300 has been used to store farm machinery/equipment.
- › The topography at the Site is generally flat with a slight slope towards the west. The Site elevation is approximately 209 m amsl. The nearest surface water body is Rainbow Creek that crosses the northwest corner of the Site. Based on the topography of the entire Site, it is anticipated that groundwater flow is towards the south/south west towards this creek.
- › The Site is currently vacant farmland with an area at the northeast corner (on PIN14213-0276) being used as a satellite yard by the City's Works Department and was constructed/graded with a layer of crushed stone/asphalt.
- › Based on the records review, interviews and observations made during the Site visits, PCAs and AOIs were identified on-Site, and include; potential impacts to soil by pesticide/herbicides associated with the historical and current agricultural operations, potential impacts to soil and groundwater associated with fill of unknown quality, and potential impacts to soil and groundwater associated with the storage of farm machinery/equipment.
- › PCAs and AOIs identified off-Site that may potentially impact soil and groundwater quality on-Site include commercial/industrial business located adjacent to north property boundary registered as waste generators and/or metal fabricators, petroleum fuel storage and handling associated with an AST located immediately south on the remainder of the property having Municipal address 10192 Highway 50, and commercial/industrial property located to the east of Highway 50 registered as a waste generator and with documented spills.
- › Based on the on-Site and off-Site PCAs and AOIs, APECs identified on the Phase One Property include general Site area, northeastern portion of the Site in the parking area, south portion of the Site in the vicinity of the metal storage shed, along the east property boundary of the Site and along the north property boundary of the Site.

7.1.1 Whether Phase Two Environmental Site Assessment Required Before Record of Site Condition Submitted

Based on the review and evaluation of information discussed herein, a Phase Two ESA would be required before a RSC could be submitted for the Phase One Property.

7.1.2 Record of Site Condition Based on Phase One Environmental Site Assessment Alone

A RSC will not be submitted based on Phase One ESA alone as based on the review and evaluation of information discussed herein, a Phase Two ESA would be required before a RSC could be submitted for the Phase One Property.

7.2 QP Statement

The Phase One ESA was supervised by undersigned qualified person(s) and all findings and conclusions of the Phase One ESA are included in the report.

8 Closure

Prepared by:



Robert Mitzakov, M.A.Sc., P.Eng.
Project Engineer

Reviewed by:



Abed Yassine, P. Geo.
Senior Geoscientist

Environment & Geoscience
Engineering, Design and Project Management



9 References

- Barnett, P.J., Cowan W.R., and Henry, A.P., 1991. "Quaternary Geology of Ontario, Southern Sheet; Ontario Geological Survey, Map 2556, Scale 1:1,000,000".
- Canadian Standards Association (CSA), 2001. "Phase One Environmental Site Assessment" Standard Z768-01".
- Ministry of the Environment (MOE), 2004. "Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act". March 2004.
- Ministry of the Environment (MOE), 2011. "Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act". April 15, 2011.
- Ministry of the Environment (MOE), 2017. "Ontario Regulation 153/04, Record of Site Condition - Part XV.1 of the Environmental Protection Act," July 28, 2017.
- Ontario Geological Survey 1991, "Bedrock Geology of Ontario, Southern Sheet; Ontario Geological Survey, Map 2544, Scale 1:1,000,000".
- Ontario Ministry of Natural Resources' (MNR) Natural Heritage Information Centre (NHIC) web Site, "<http://nhic.mnr.gov.on.ca/>".
- Trow Associates Inc. (Trow), 2008a. "Phase I Environmental Site Assessment: Proposed Williams Parkway Satellite Yard 10192 Highway 50, Brampton, Ontario". November 3, 2008.
- Trow, 2008b. "Phase II Environmental Site Assessment: Proposed Williams Parkway Satellite Yard 10192 Highway 50, Brampton, Ontario". November 5, 2008.

Qualifications of The Assessors

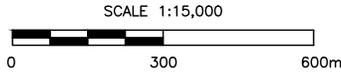
Report Author – Mr. Robert Mitzakov, M.A.Sc., P.Eng. Mr. Mitzakov has 15 years relevant experience in environmental assessments and management. He has extensive experience in conducting and implementing Phase I, II and III environmental site assessments (ESAs) associated with various Departments of the Federal Government. He has managed and conducted numerous Phase I and II ESAs at a variety of industrial and commercial sites with emphasis on petroleum hydrocarbon contamination.

Senior Reviewer – Mr. Abed Yassine, P.Geo. Mr. Yassine has over 28 years of experience in the assessment and remediation of contaminated sites. He has completed Phase I and II environmental site assessments (ESAs), investigations and remediation at sites impacted by petroleum hydrocarbons, chlorinated solvents, polychlorinated biphenyls (PCBs), heavy metals and inorganic contaminants. He has also prepared evaluation reports for buildings and structures that contain contaminants and require specific removal and disposal programs prior to general demolition. Mr. Yassine has supervised field demolition programs that require special handling of asbestos and PCBs, completed storm water management design, evaluated subsoil and groundwater conditions for design of private waste systems, designed sewage systems including treatment and distribution systems and lot grading.

Figures

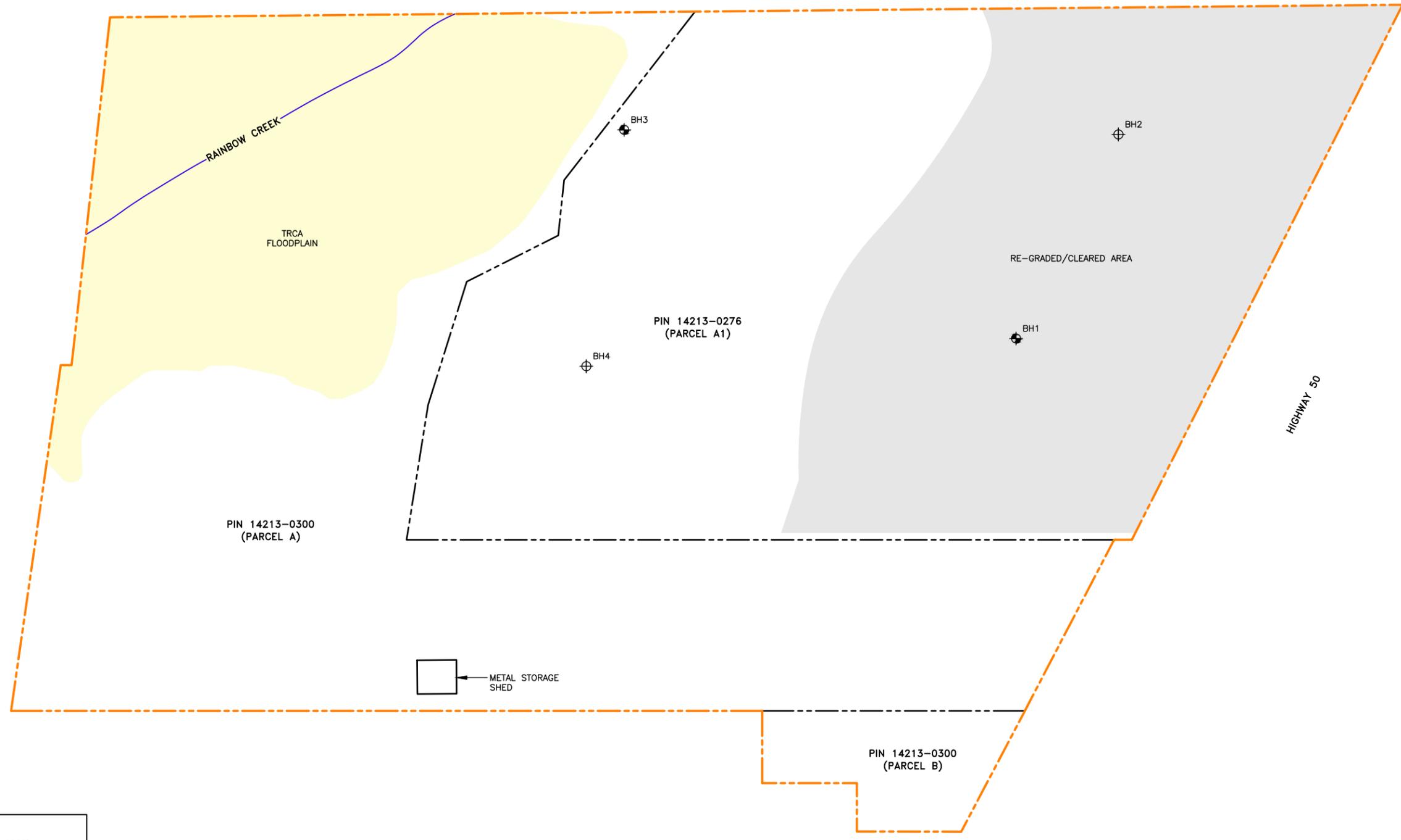
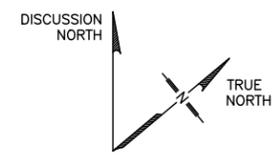


SOURCE(S):
1. GOOGLE EARTH PRO IMAGE, MARCH 7, 2018



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| Client/Location: | | CITY OF BRAMPTON 10192 HIGHWAY 50, BRAMPTON, ON | | Title: | | SITE LOCATION PLAN | |
| Project No: | 665125 | Filename: | 002F01_665125 | Date: | OCTOBER 2019 | Dwg No: | FIGURE 1 |
| Drawn: | AG | Verified: | RM | Project Manager: | AY | | |

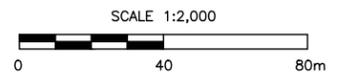
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|------------------|--------|---|---------------|------------------|--------------|--------------------|----------|
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| Project No: | 665125 | Filename: | 002F01_665125 | Date: | OCTOBER 2019 | Dwg No: | FIGURE 1 |
| Drawn: | AG | Verified: | RM | Project Manager: | AY | | |



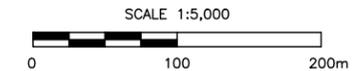
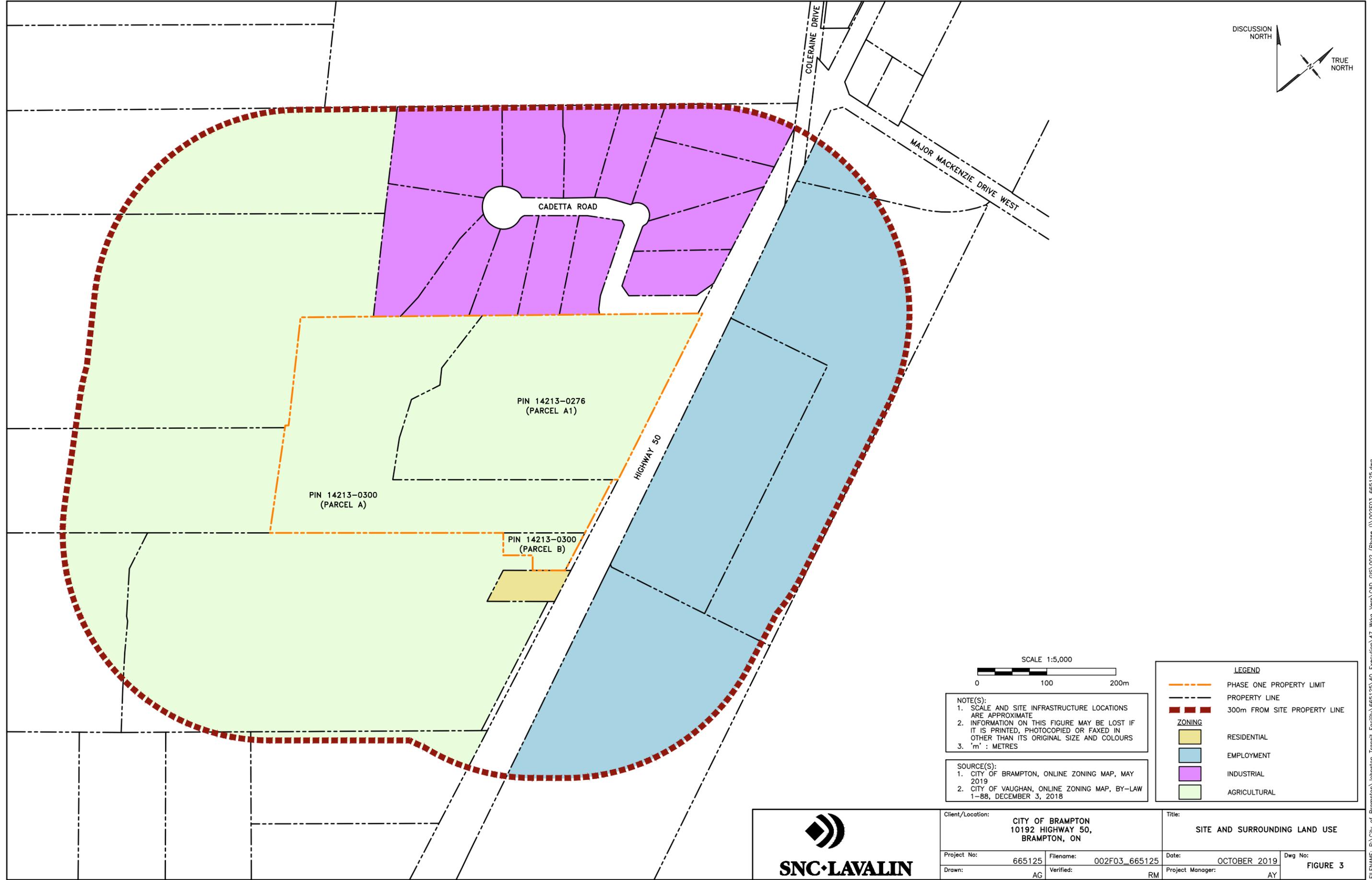
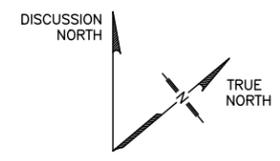
METAL STORAGE SHED

| LEGEND | |
|--------|---|
| | BOREHOLE (TROW, 2008) |
| | MONITORING WELL (TROW, 2008) |
| | RE-GRADED/CLEARED AREA |
| | TORONTO AND REGION CONSERVATION AUTHORITY (TRCA) FLOODPLAIN |
| | PHASE ONE PROPERTY LIMIT |
| | PROPERTY LINE |
| | EXISTING BUILDING |

NOTE(S):
 1. SCALE AND SITE INFRASTRUCTURE LOCATIONS ARE APPROXIMATE
 2. INFORMATION ON THIS FIGURE MAY BE LOST IF IT IS PRINTED, PHOTOCOPIED OR FAXED IN OTHER THAN ITS ORIGINAL SIZE AND COLOURS
 3. 'm' : METRES



| | | | | | | | |
|------------------|--------|---|---------------|------------------|--------------|---------------------|----------|
| Client/Location: | | CITY OF BRAMPTON 10192 HIGHWAY 50, BRAMPTON, ON | | Title: | | CURRENT SITE LAYOUT | |
| Project No: | 665125 | Filename: | 002F02_665125 | Date: | OCTOBER 2019 | Dwg No: | FIGURE 2 |
| Drawn: | AG | Verified: | RM | Project Manager: | AY | | |



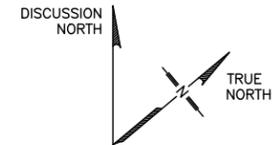
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 3. 'm' : METRES

SOURCE(S):
 1. CITY OF BRAMPTON, ONLINE ZONING MAP, MAY 2019
 2. CITY OF VAUGHAN, ONLINE ZONING MAP, BY-LAW 1-88, DECEMBER 3, 2018

| LEGEND | |
|--------|------------------------------|
| | PHASE ONE PROPERTY LIMIT |
| | PROPERTY LINE |
| | 300m FROM SITE PROPERTY LINE |
| ZONING | |
| | RESIDENTIAL |
| | EMPLOYMENT |
| | INDUSTRIAL |
| | AGRICULTURAL |

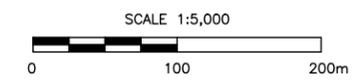


| | | | |
|--|----------------------------|--|----------------------------|
| Client/Location: CITY OF BRAMPTON 10192 HIGHWAY 50, BRAMPTON, ON | | Title: SITE AND SURROUNDING LAND USE | |
| Project No: 665125 | Filename: 002F03_665125 | Date: OCTOBER 2019 | Dwg No: FIGURE 3 |
| Drawn: AG | Verified: RM | Project Manager: AY | |



| ON PHASE ONE STUDY PROPERTY ARE THERE? | | |
|--|-----|--|
| EXISTING STRUCTURES/BUILDINGS | YES | METAL SHED |
| WATER WELLS | YES | 1 – DOMESTIC WATER SUPPLY WELL CONSTRUCTED IN 1977 |
| IN PHASE ONE STUDY AREA ARE THERE? | | |
| ROADS | YES | SEE FIGURE |
| WATER BODIES | YES | RAINBOW CREEK – NORTHWEST CORNER OF SITE |
| AREA OF NATURAL SIGNIFICANCE | NO | |

| ON-SITE LOCATION | PCA No. | POTENTIAL CONTAMINATION ACTIVITY TYPE | DESCRIPTION |
|-------------------|---------|--|--|
| A | 40 | PESTICIDES (INCLUDING HERBICIDES, FUNGICIDES AND ANTI-FOULING AGENTS) MANUFACTURING, PROCESSING, BULK STORAGE AND LARGE-SCALE APPLICATIONS | HISTORICAL AND CURRENT ACTIVITIES ASSOCIATED WITH AGRICULTURE/FARMING THROUGHOUT THE SITE |
| B | 30 | IMPORTATION OF FILL MATERIAL OF UNKNOWN QUALITY | A LAYER OF CRUSHED STONE/AND ASPHALT PIECES IN THE NORTHEAST CORNER OF THE SITE |
| C | NA | NA | STORAGE OF FARM EQUIPMENT/MACHINERY IN THE METAL STORAGE SHED |
| OFF-SITE LOCATION | PCA No. | POTENTIAL CONTAMINATION ACTIVITY TYPE | DESCRIPTION |
| 1 | NA | NA | PROPERTY LOCATED AT 9701 HIGHWAY 50 (UPGRADIENT OF INFERRED GROUNDWATER FLOW DIRECTION) HAS BEEN DOCUMENTED AS A WASTE GENERATOR AND SPILLS |
| 2 | 28 | GASOLINE AND ASSOCIATED PRODUCTS STORAGE IN FIXED TANKS | PETROLEUM FUEL HANDLING AND STORAGE ASSOCIATED WITH A DYED DIESEL AST LOCATED TO THE SOUTH OF THE METAL SHED ON THE REMAINDER OF THE PROPERTY HAVING MUNICIPAL ADDRESS OF 10192 HIGHWAY 50 |
| 3 | NA | NA | ALONG NORTH PROPERTY BOUNDARY/NORTH WEST CORNER (WASTE GENERATORS) |
| 4 | 34 | METAL FABRICATION | ALONG NORTH PROPERTY BOUNDARY |



NOTE(S):
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 2. INFORMATION ON THIS FIGURE MAY BE LOST IF IT IS PRINTED, PHOTOCOPIED OR FAXED IN OTHER THAN ITS ORIGINAL SIZE AND COLOURS.
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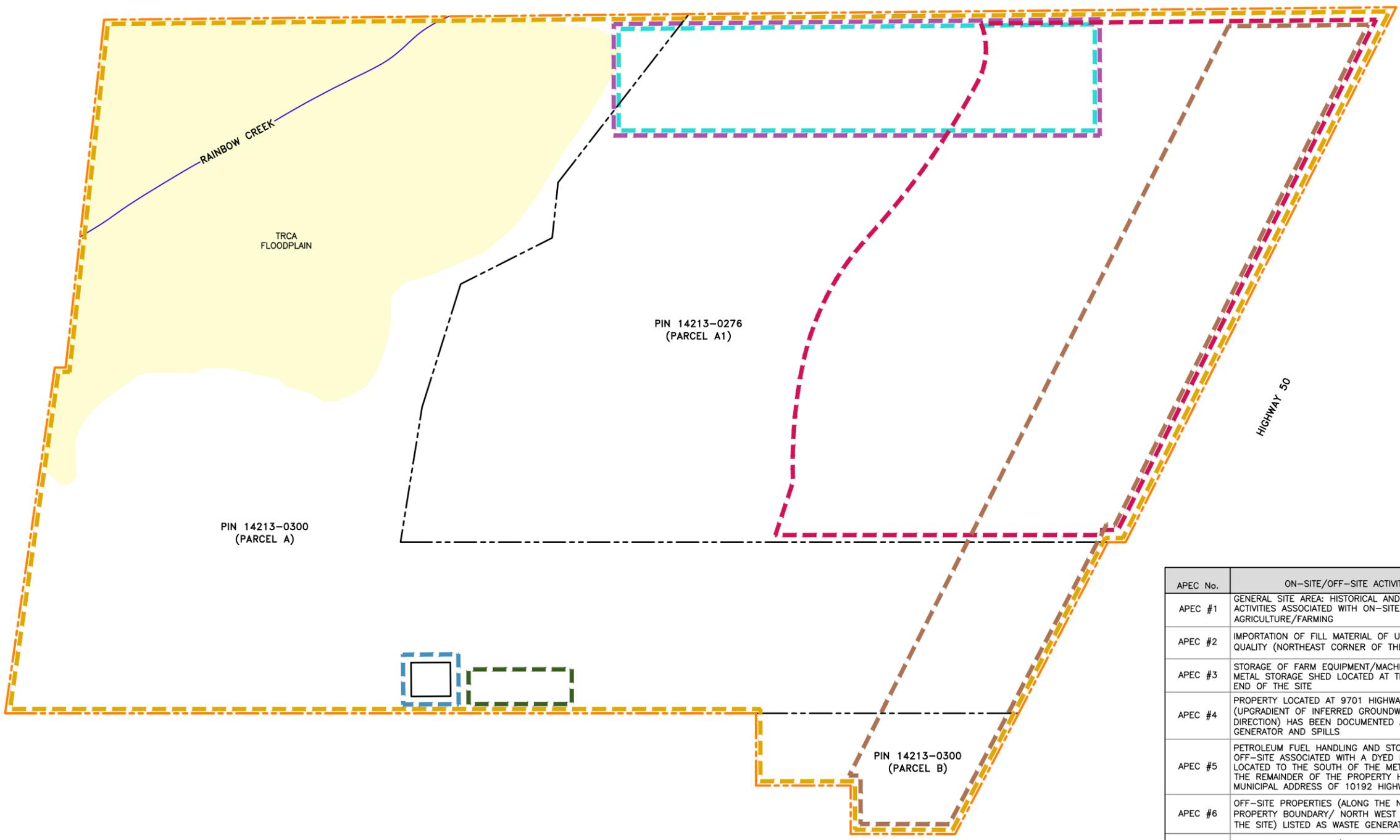
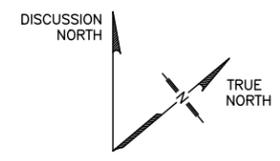
SOURCE(S):
 1. GOOGLE EARTH PRO IMAGE, MARCH 7, 2018

| LEGEND | |
|--------|--|
| (A) 1 | POTENTIAL CONTAMINATING ACTIVITY/ACTIVITIES OF ENVIRONMENTAL INTEREST ITEM NUMBER AS DEFINED IN TABLE 2 WITHIN PART VI OF SCHEDULE D OF O. REG. 153/04 |
| --- | PHASE ONE PROPERTY LIMIT |
| --- | PROPERTY LINE |
| --- | 300m FROM SITE PROPERTY LINE |



| | | | |
|--|----------------------------|---|----------------------------|
| Client/Location: CITY OF BRAMPTON 10192 HIGHWAY 50, BRAMPTON, ON | | Title: PHASE ONE CONCEPTUAL SITE MODEL POTENTIALLY CONTAMINATING ACTIVITIES | |
| Project No: 665125 | Filename: 002F04_665125 | Date: OCTOBER 2019 | Dwg No: FIGURE 4 |
| Drawn: AG | Verified: RM | Project Manager: AY | |

FILENAME: P:\City of Brampton\Johnston Transit Facility\665125\40_Execution\47_Wkkg_Vers\CAD_GIS\002 (Phase 1)\002F04_665125.dwg



| APEC No. | ON-SITE/OFF-SITE ACTIVITIES | PCA No. | POTENTIAL CONTAMINANTS OF CONCERN |
|----------|---|---------|--|
| APEC #1 | GENERAL SITE AREA: HISTORICAL AND CURRENT ACTIVITIES ASSOCIATED WITH ON-SITE AGRICULTURE/FARMING | 40 | HERBICIDES AND PESTICIDES AND METALS/INORGANICS |
| APEC #2 | IMPORTATION OF FILL MATERIAL OF UNKNOWN QUALITY (NORTHEAST CORNER OF THE SITE) | 30 | PAHs AND METALS/INORGANICS |
| APEC #3 | STORAGE OF FARM EQUIPMENT/MACHINERY IN THE METAL STORAGE SHED LOCATED AT THE SOUTH END OF THE SITE | NA | BTEX, PHC F1-F4, VOCs AND PAHs |
| APEC #4 | PROPERTY LOCATED AT 9701 HIGHWAY 50 (UPGRADIENT OF INFERRED GROUNDWATER FLOW DIRECTION) HAS BEEN DOCUMENTED AS A WASTE GENERATOR AND SPILLS | NA | BTEX, PHC F1-F4, VOCs, PAHs, AND METALS/INORGANICS |
| APEC #5 | PETROLEUM FUEL HANDLING AND STORAGE OFF-SITE ASSOCIATED WITH A DYED DIESEL AST LOCATED TO THE SOUTH OF THE METAL SHED ON THE REMAINDER OF THE PROPERTY HAVING MUNICIPAL ADDRESS OF 10192 HIGHWAY 50 | 28 | BTEX, PHC F1-F4, VOCs, PAHs, AND METALS/INORGANICS |
| APEC #6 | OFF-SITE PROPERTIES (ALONG THE NORTH PROPERTY BOUNDARY/ NORTH WEST CORNER OF THE SITE) LISTED AS WASTE GENERATORS | NA | BTEX, PHC F1-F4, VOCs, PAHs, AND METALS/INORGANICS |
| APEC #7 | OFF-SITE PROPERTIES (ALONG NORTH PROPERTY BOUNDARY OF THE SITE) INVOLVED IN THE MANUFACTURING OF METAL PRODUCTS | 34 | VOCs AND METALS/INORGANICS |

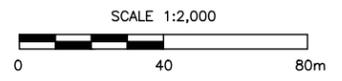
LEGEND

- TORONTO AND REGION CONSERVATION AUTHORITY (TRCA) FLOODPLAIN
- PHASE ONE PROPERTY LIMIT
- PROPERTY LINE
- EXISTING BUILDING

AREAS OF POTENTIAL ENVIRONMENTAL CONCERN

- APEC #1
- APEC #2
- APEC #3
- APEC #4
- APEC #5
- APEC #6
- APEC #7

NOTE(S):
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 3. 'm' : METRES



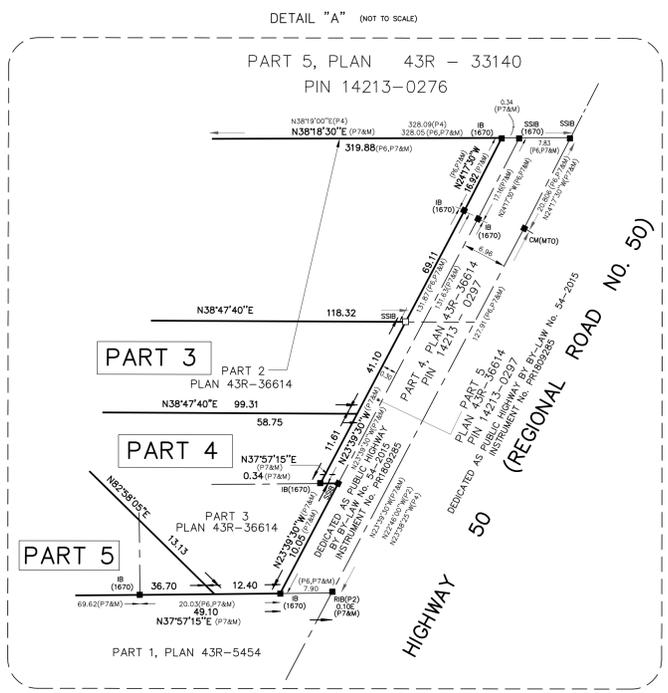
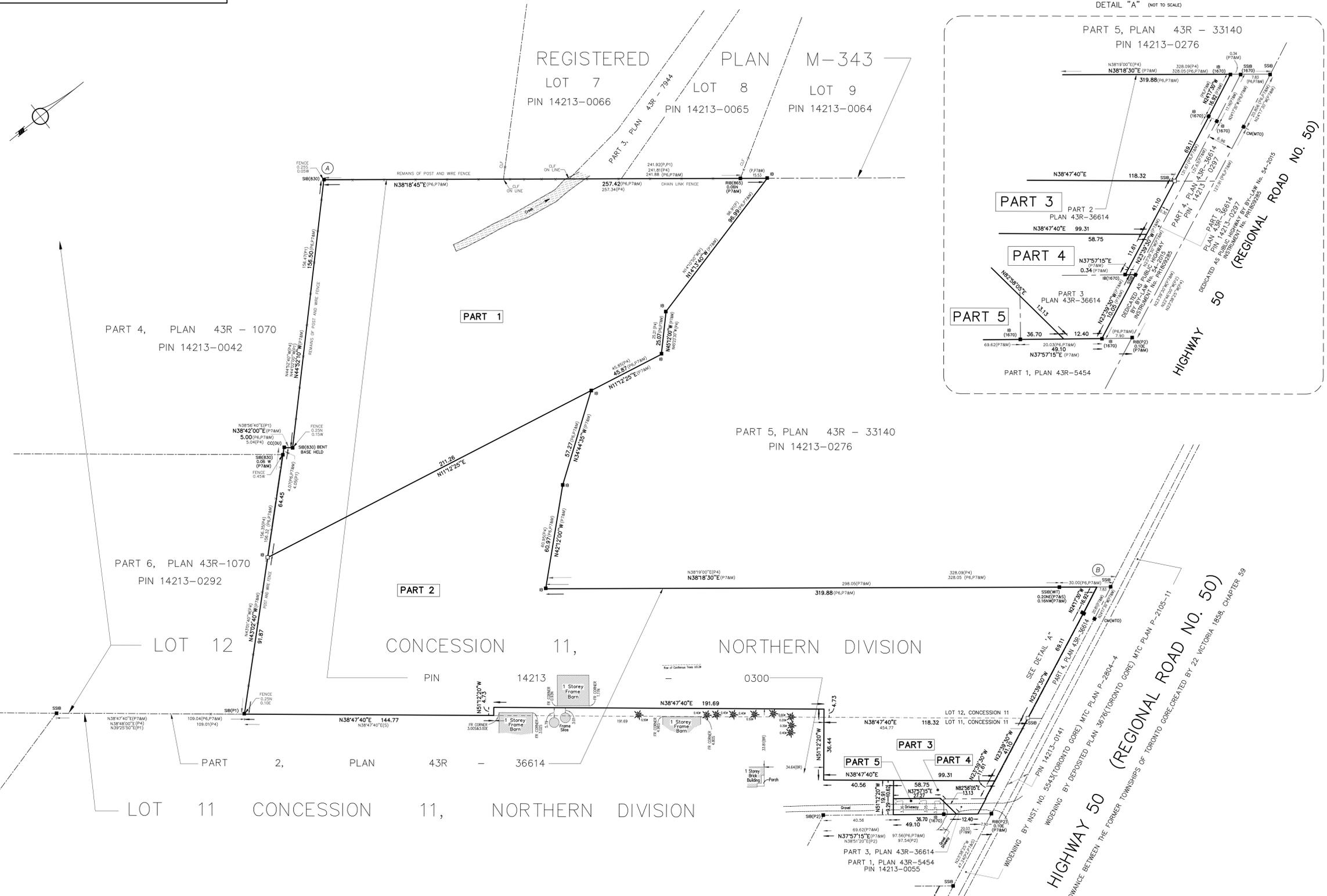
| | | | |
|--|----------------------------|---|----------------------------|
| Client/Location: CITY OF BRAMPTON 10192 HIGHWAY 50, BRAMPTON, ON | | Title: PHASE ONE CONCEPTUAL SITE MODEL AREAS OF POTENTIAL ENVIRONMENTAL CONCERN | |
| Project No: 665125 | Filename: 002F05_665125 | Date: OCTOBER 2019 | Dwg No: FIGURE 5 |
| Drawn: AG | Verified: RM | Project Manager: AY | |

FILENAME: F:\City of Brampton\Johnston Transit Facility\665125\40_Execution\47_Wkg_Vers\CAD_GIS\002 (Phase 1)\002F05_665125.dwg

Appendix A

Site Survey

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



I REQUIRE THIS PLAN TO BE DEPOSITED UNDER THE LAND TITLES ACT.

Plan 43R-
RECEIVED AND DEPOSITED :

DATE : _____ 2019 DATE : _____ 2019

MICHELE PEARSON
ONTARIO LAND SURVEYOR

REPRESENTATIVE FOR THE LAND TITLES DIVISION OF PEEL REGION (No. 43)

Schedule

| PART | PART OF LOT | CONCESSION | PART OF PIN | AREA(Sq.m.) |
|------|-------------|-------------------------|-------------|-------------|
| 1 | | | | 35222.5 |
| 2 | 12 | | | 44751.1 |
| 3 | | 11 NORTHERN DIVISION | 14213-0300 | 3965.2 |
| 4 | | | | 755.7 |
| 5 | | | | 297.0 |

PLAN OF SURVEY OF
PART OF LOTS 11 AND 12
CONCESSION 11, NORTHERN DIVISION
CITY OF BRAMPTON
REGIONAL MUNICIPALITY OF PEEL
GEOGRAPHIC TOWNSHIP OF TORONTO GORE
COUNTY OF PEEL
SCALE 1:1000

PEARSON & PEARSON SURVEYING LTD. 2019
Ontario Land Surveyors

Bearing Note
BEARINGS SHOWN HEREON ARE GRID, DERIVED FROM OBSERVED REFERENCE POINTS (ORP'S) A & B BY REAL TIME NETWORK OBSERVATIONS, UTM Zone 17, NAD 83 (CSRS V6) (Epoch 2010.00)
DISTANCES SHOWN ON THE PLAN ARE ADJUSTED GROUND DISTANCES AND CAN BE USED TO COMPUTE GRID DISTANCES BY MULTIPLYING BY A COMBINED SCALE FACTOR OF 0.9997135

Integration Data

OBSERVED REFERENCE POINTS (ORP'S) DERIVED FROM GPS OBSERVATIONS USING THE SMARTNET NETWORK SERVICE AND ARE REFERRED TO UTM Zone 17, NAD 83 (CSRS V6) (Epoch 2010.00)

COORDINATE VALUES ARE TO URBAN ACCURACY IN ACCORDANCE WITH SECTION 14(2) OF O. REG. 216/10, AND CANNOT, IN THEMSELVES, BE USED TO RE-ESTABLISH CORNERS OR BOUNDARIES SHOWN ON THIS PLAN.

| POINT ID | NORTHING | EASTING |
|----------|------------|-----------|
| ORP A | 4851854.26 | 606031.62 |
| ORP B | 4852058.33 | 606495.83 |

- Legend**
- DENOTES SURVEY MONUMENT PLANTED
 - DENOTES SURVEY MONUMENT FOUND
 - SB DENOTES STANDARD IRON BAR
 - SSB DENOTES SHORT STANDARD IRON BAR (USED WHERE BURIED UTILITY OR TREE ROOTS COULD BE OF CONCERN)
 - IB DENOTES IRON BAR
 - S DENOTES SET
 - M DENOTES MEASURED
 - OU DENOTES ORIGIN UNKNOWN
 - P DENOTES PLAN M-343
 - P1 DENOTES PLAN 43R-1070
 - D DENOTES INST. NO. R01032242
 - P2 DENOTES PLAN 43R-5454
 - P3 DENOTES EXPROPRIATION PLAN 5543(MTO PLAN P-2804-4)
 - P4 DENOTES PLAN 43R-33140
 - P5 DENOTES PLAN 43R-36614
 - P6 DENOTES PLAN 43R-36614
 - P7 DENOTES PLAN 43R-36614
 - MM DENOTES M/M GROUP
 - 1670 DENOTES R. CARLSON, O.L.S.
 - 865 DENOTES E. BIASON, O.L.S.
 - 830 DENOTES E. W. PETZOLD, O.L.S.
 - 1493 DENOTES J.F. YOUNG, O.L.S.
 - MTO DENOTES MINISTRY OF TRANSPORTATION OF ONTARIO
 - CLF DENOTES CHAIN LINK FENCE
 - N/S/E/W DENOTES NORTH/SOUTH/EAST/WEST
 - FR DENOTES TIES TO FRAME
 - BR DENOTES TIES TO BRICK
- ALL FOUND MONUMENTS ARE (1670) UNLESS OTHERWISE NOTED
ALL PROPERTY LINES ARE UNFENCED UNLESS OTHERWISE NOTED

Surveyor's Certificate

I CERTIFY THAT:
1. THIS SURVEY AND PLAN ARE CORRECT AND IN ACCORDANCE WITH THE SURVEY ACT, THE LAND TITLES ACT AND THE SURVEYORS ACT AND THE REGULATIONS MADE UNDER THEM.
2. THE SURVEY WAS COMPLETED ON THE _____ DAY OF _____, 2019.

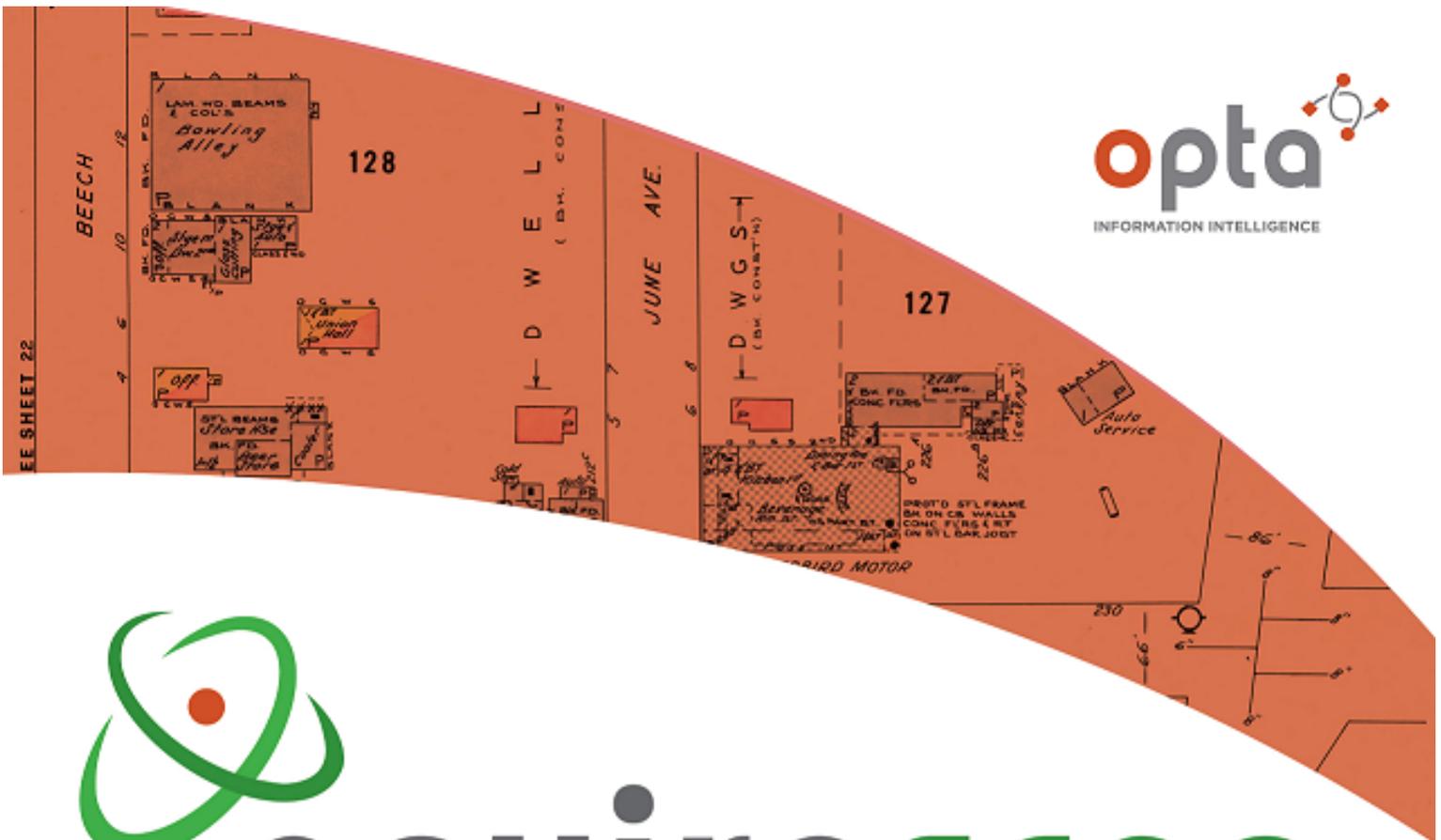
Date _____
Michele Pearson
Ontario Land Surveyor

CITY OF BRAMPTON

10933 JANE STREET, SECOND FLOOR, MAPLE
ONTARIO, L6A 1S1
C : (905) 553-5453
E : michel@pearsonandpearson.com
DRAWING : 1585-Hwy50-10192A-RPlan.DWG PROJECT : 1585
CALC. BY : JM DRAWN BY : TM/JM CHECKED BY : MP/JM

Appendix B

Fire Insurance Plans



enviroscan



An SCM Company

175 Commerce Valley Drive W
Markham, Ontario L3T 7Z3

T: 905-882-6300
W: www.optaintel.ca

Report Completed By:

Anthony

Site Address:

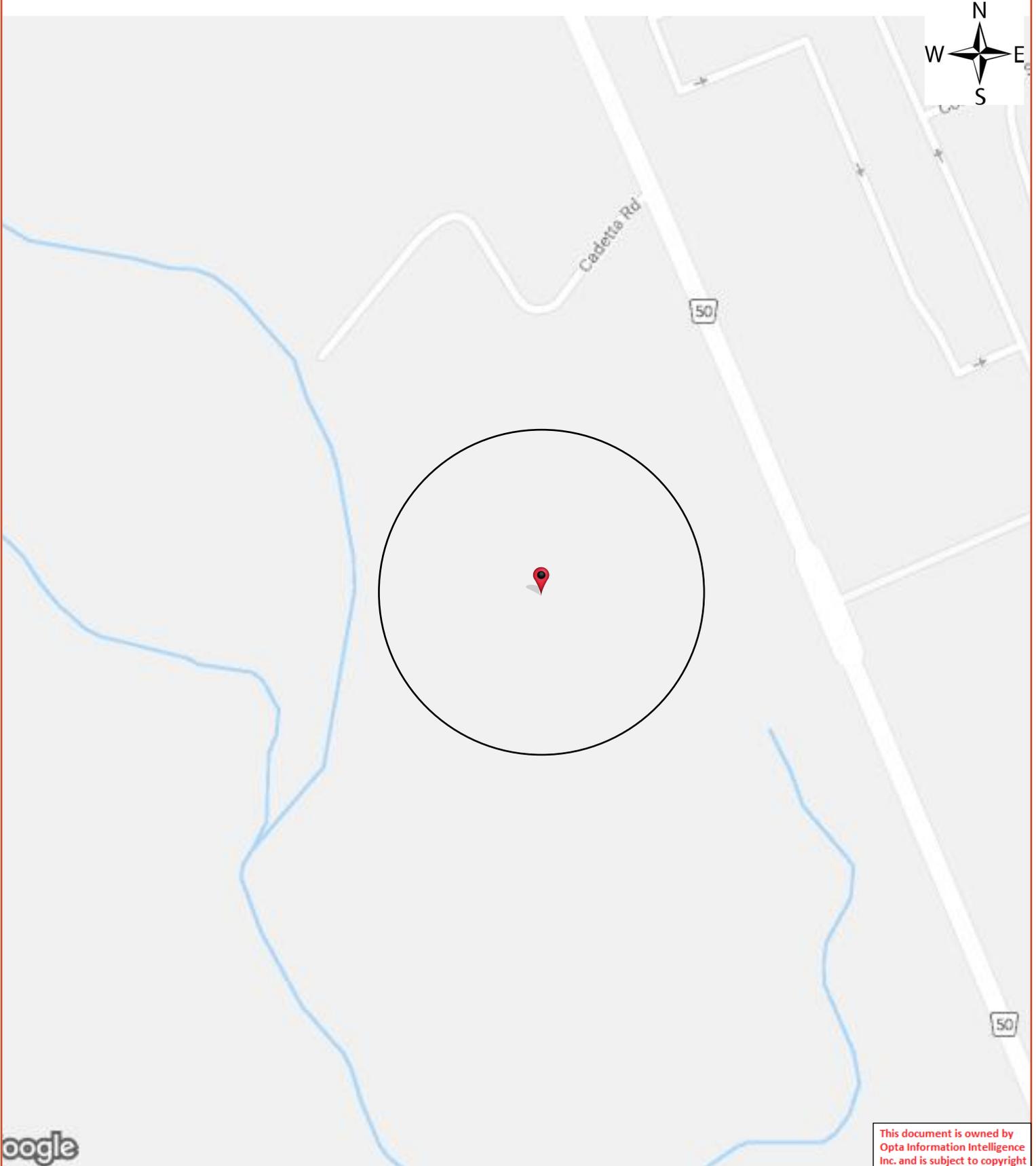
10192 Highway 50 Brampton ON
Project No:

20190508200
Opta Order ID:

61165

Requested by:
Eleanor Goolab
Ecolog ERIS

Date Completed:
5/15/2019 11:36:26 AM





Opta Historical Environmental Services Enviroscan TM Terms and Conditions

Report

The documents (hereinafter referred to as the "Documents") to be released as part of the report (hereinafter referred to as the "Report") to be delivered to the purchaser as set out above are documents in Opta's records relating to the described property (hereinafter referred to as the "Property"). Opta makes no representations or warranties respecting the Documents whatsoever, including, without limitation, with respect to the completeness, accuracy or usefulness of the Documents, and does not represent or warrant that these are the only plans and reports prepared in association with the Property or in Opta's possession at the time of Report delivery to the purchaser. The Documents are current as of the date(s) indicated on them. Interpretation of the Documents, if any, is by inference based upon the information which is apparent and obvious on the face of the Documents only. Opta does not represent, warrant or guarantee that interpretations other than those referred to do not exist from other sources. The Report will be prepared for use by the purchaser of the services as shown above hereof only.

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Entire Agreement

The parties hereto acknowledge and agree to be bound by the terms and conditions hereof. The request form constitutes the entire agreement between the parties pertaining to the subject matter hereof and supersedes all prior and contemporaneous agreements, negotiations and discussions, whether oral or written, and there are no representations or warranties, or other agreements between the parties in connection with the subject matter hereof except as specifically set forth herein. No supplement, modification, waiver, or termination of the request shall be binding, unless confirmed in writing by the parties hereto.

Governing Document

In the event of any conflicts or inconsistencies between the provisions hereof and the Reports, the rights and obligations of the parties shall be deemed to be governed by the request form, which shall be the paramount document.

Law

This agreement shall be governed by and construed in accordance with the laws of the Province of Ontario and the laws of Canada applicable therein.



175 Commerce Valley Drive W
Markham, Ontario
L3T 7Z3

T: 905.882.6300
Toll Free: 905.882.6300
F: 905.882.6300

An SCM Company
www.optaintel.ca

Page: 4

Project Name: Johnston Transit
Facility City of Brampton

Project #: 20190508200
P.O. #: 665125

ENVIROSCAN Report

No Records Found

Requested by:
Eleanor Goolab

Date Completed: 05/15/2019 11:36:26



OPTA INFORMATION INTELLIGENCE

No Records Found

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full Terms and Conditions at
the front of this document.



Appendix C

Chain of Title

CHAIN OF TITLE REPORT

Project #: 20190508200
 Address: w/s Highway #50, Brampton
 Legal Description: Part lot 12, Con 11 ND Tor Gore as Part 5, 43R33140

Searched at: Brampton
 LRO #: 43

Page 1

PIN #: 14213-0276(LT)

| INSTR # | DOC. TYPE | REG. DATE | PARTY FROM | PARTY TO |
|---------|-----------|------------|------------------------|-----------------------------|
| | Patent | 19 05 1830 | Crown | James DURAND |
| 8264 | Deed | 04 10 1831 | James Durand | Andrew MERCER |
| 19642 | Deed | 28 04 1842 | Andrew Mercer | Alexander JOHNSTON |
| 3770 | Deed | 03 04 1857 | Alexander Johnston | David JOHNSTON |
| 13953 | Deed | 15 12 1865 | David Johnston | William JOHNSTON |
| 25 | Deed | 11 09 1868 | William Johnston | David JOHNSTON |
| 1228 | Deed | 13 02 1891 | David Johnston | John JOHNSTON |
| 4895 | Deed | 06 03 1959 | John Johnston - estate | Eldred JOHNSTON |
| 4923 | Deed | 10 07 1959 | Eldred Johnston | Clarence Alexander JOHNSTON |

Cont'd on page 2

CHAIN OF TITLE REPORT

Project #: 20190508200
Address: w/s Highway #50, Brampton
Legal Description: Part lot 12, Con 11 ND Tor Gore
as Part 5, 43R33140

Searched at: Brampton
LRO #: 43

Page 2

PIN #: 14213-0276(LT)

| INSTR # | DOC. TYPE | REG. DATE | PARTY FROM | PARTY TO |
|-----------|-------------------------|------------|-----------------------------|--|
| RO1032242 | Deed | 02 03 1993 | Clarence Alexander Johnston | James Frazer JOHNSTON |
| PR1820692 | Deed (Present Owner) | 14 05 2010 | James Frazer Johnston | The Corporation of The City of Brampton |

PROPERTY DESCRIPTION: PT LT 12 CON 11 ND TORONTO GORE; DESIGNATED AS PART 5 ON PLAN 43R-33140; CITY OF BRAMPTON

PROPERTY REMARKS:

ESTATE/QUALIFIER:
FEE SIMPLE
LT CONVERSION QUALIFIED

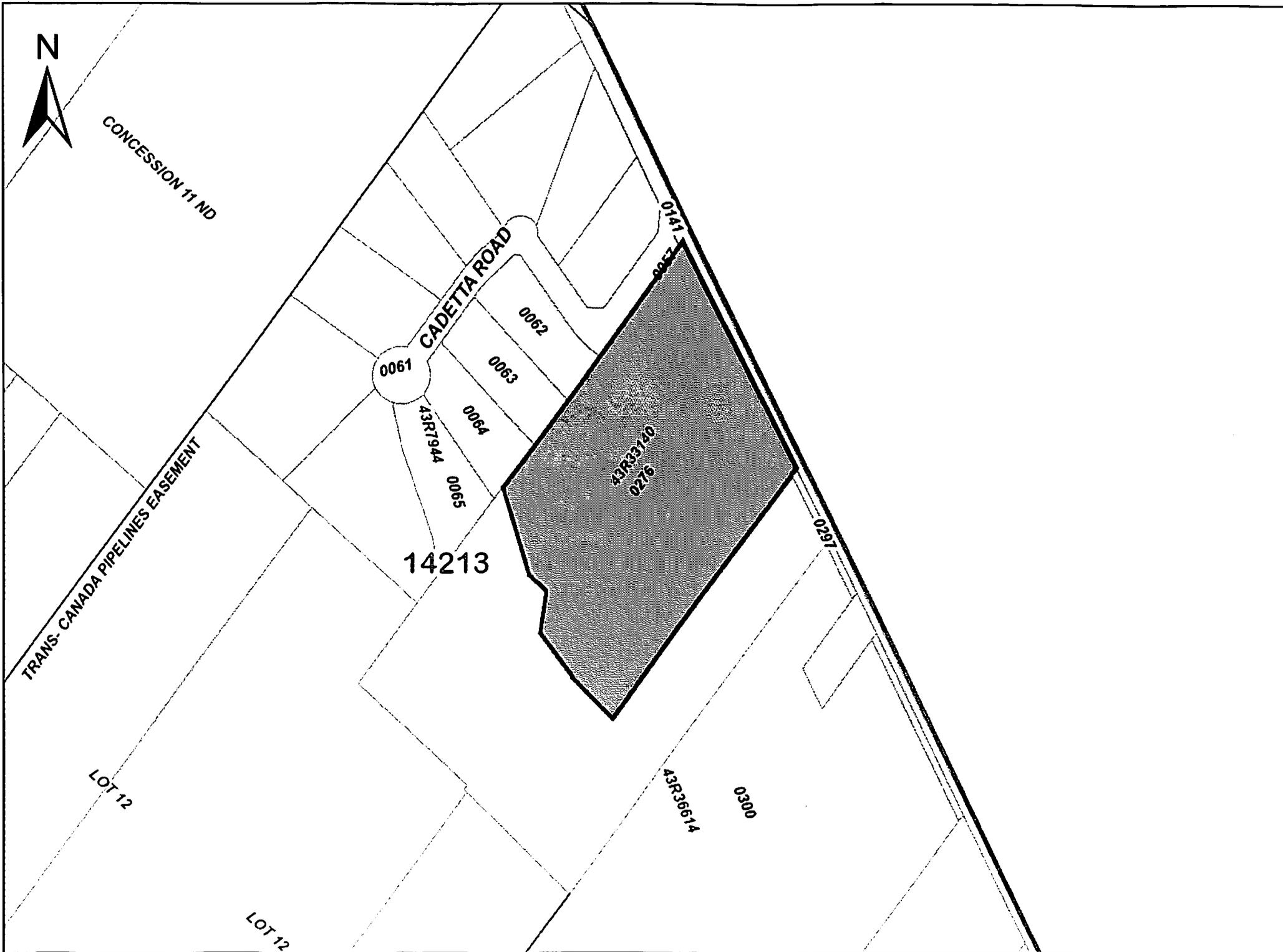
RECENTLY:
DIVISION FROM 14213-0056

PIN CREATION DATE:
2010/06/11

OWNERS' NAMES
THE CORPORATION OF THE CITY OF BRAMPTON

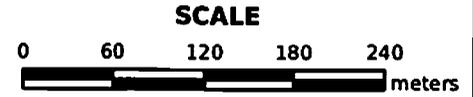
CAPACITY SHARE
ROWN

| REG. NUM. | DATE | INSTRUMENT TYPE | AMOUNT | PARTIES FROM | PARTIES TO | CERT/CHKD |
|---|------------|-----------------|-------------|------------------------|---|-----------|
| <p>** PRINTOUT INCLUDES ALL DOCUMENT TYPES AND DELETED INSTRUMENTS SINCE 2010/06/11 **</p> <p>**SUBJECT, ON FIRST REGISTRATION UNDER THE LAND TITLES ACT, TO:</p> <p>** SUBSECTION 44(1) OF THE LAND TITLES ACT, EXCEPT PARAGRAPH 11, PARAGRAPH 14, PROVINCIAL SUCCESSION DUTIES * AND ESCHEATS OR FORFEITURE TO THE CROWN.</p> <p>** 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.</p> <p>** ANY LEASE TO WHICH THE SUBSECTION 70(2) OF THE REGISTRY ACT APPLIES.</p> <p>**DATE OF CONVERSION TO LAND TITLES: 1998/12/22 **</p> | | | | | | |
| 43R33140 | 2010/01/25 | PLAN REFERENCE | | | | C |
| PR1820692 | 2010/05/14 | TRANSFER | \$6,504,454 | JOHNSTON, JAMES FRAZER | THE CORPORATION OF THE CITY OF BRAMPTON | C |



ServiceOntario

PRINTED ON 12 JUN, 2019 AT 14:58:29
FOR BERTUCCI1



PROPERTY INDEX MAP PEEL(No. 43)

LEGEND

| | |
|----------------------------------|-------|
| FREEHOLD PROPERTY | |
| LEASEHOLD PROPERTY | |
| LIMITED INTEREST PROPERTY | |
| CONDOMINIUM PROPERTY | |
| RETIRED PIN (MAP UPDATE PENDING) | |
| PROPERTY NUMBER | 0449 |
| BLOCK NUMBER | 08050 |
| GEOGRAPHIC FABRIC | |
| EASEMENT | |

THIS IS NOT A PLAN OF SURVEY

NOTES

REVIEW THE TITLE RECORDS FOR COMPLETE PROPERTY INFORMATION AS THIS MAP MAY NOT REFLECT RECENT REGISTRATIONS

THIS MAP WAS COMPILED FROM PLANS AND DOCUMENTS RECORDED IN THE LAND REGISTRATION SYSTEM AND HAS BEEN PREPARED FOR PROPERTY INDEXING PURPOSES ONLY

FOR DIMENSIONS OF PROPERTIES BOUNDARIES SEE RECORDED PLANS AND DOCUMENTS

ONLY MAJOR EASEMENTS ARE SHOWN

REFERENCE PLANS UNDERLYING MORE RECENT REFERENCE PLANS ARE NOT ILLUSTRATED



CHAIN OF TITLE REPORT

Project #: 20190508200
 Address: w/s Highway #50, Brampton
 Legal Description: Part lots 11 & 12, Con 11 ND Tor Gore
as Parts 2 & 3, 43R36614

Searched at: Brampton
 LRO #: 43

Page 1

PIN #: 14213-0300(LT)

| INSTR # | DOC. TYPE | REG. DATE | PARTY FROM | PARTY TO |
|---------|-----------|------------|------------------------|-----------------------------|
| | Patent | 19 05 1830 | Crown | James DURAND |
| 8264 | Deed | 04 10 1831 | James Durand | Andrew MERCER |
| 19642 | Deed | 28 04 1842 | Andrew Mercer | Alexander JOHNSTON |
| 3770 | Deed | 03 04 1857 | Alexander Johnston | David JOHNSTON |
| 13953 | Deed | 15 12 1865 | David Johnston | William JOHNSTON |
| 25 | Deed | 11 09 1868 | William Johnston | David JOHNSTON |
| 1228 | Deed | 13 02 1891 | David Johnston | John JOHNSTON |
| 4895 | Deed | 06 03 1959 | John Johnston - estate | Eldred JOHNSTON |
| 4923 | Deed | 10 07 1959 | Eldred Johnston | Clarence Alexander JOHNSTON |

Cont'd on page 2

CHAIN OF TITLE REPORT

Project #: 20190508200
Address: w/s Highway #50, Brampton
Legal Description: Part lots 11 & 12, Con 11 ND Tor Gore
as Parts 2 & 3, 43R36614

Searched at: Brampton
LRO #: 43

Page 2

PIN #: 14213-0300(LT)

| INSTR # | DOC. TYPE | REG. DATE | PARTY FROM | PARTY TO |
|-----------|-------------------------|------------|-----------------------------|-----------------------|
| RO1032242 | Deed (Present Owner) | 02 03 1993 | Clarence Alexander Johnston | James Frazer JOHNSTON |

LAND
REGISTRY
OFFICE #43

14213-0300 (LT)

PAGE 1 OF 1
PREPARED FOR bertuccil
ON 2019/06/12 AT 14:59:40

* CERTIFIED IN ACCORDANCE WITH THE LAND TITLES ACT * SUBJECT TO RESERVATIONS IN CROWN GRANT *

PROPERTY DESCRIPTION: PT LTS 11 AND 12, CONC 11 NORTHERN DIVISION, (FORMERLY TWP OF TORONTO GORE) DESIGNATED AS PTS 2 & 3 43R36614; CITY OF BRAMPTON

PROPERTY REMARKS:

ESTATE/QUALIFIER:
FEE SIMPLE
LT CONVERSION QUALIFIED

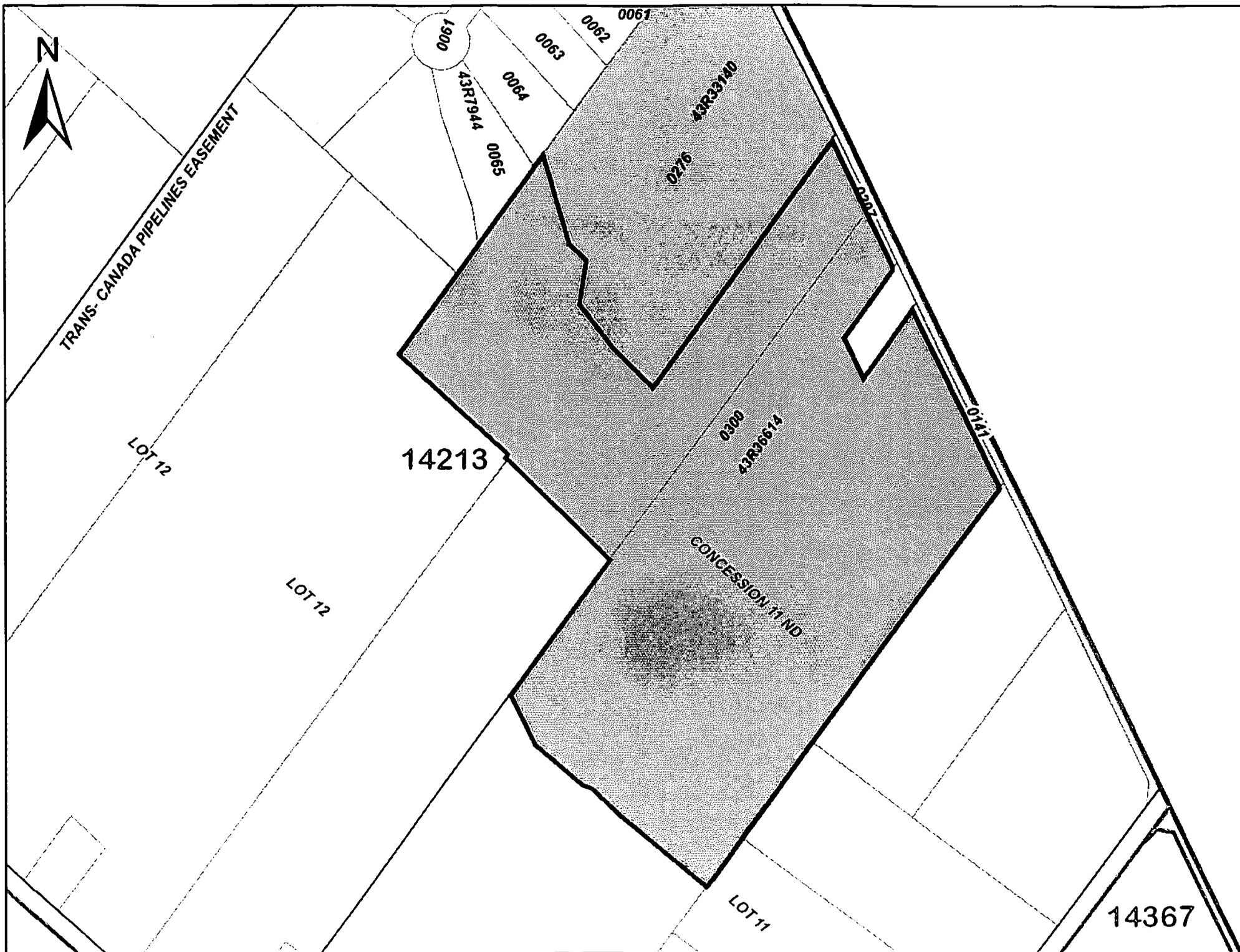
RECENTLY:
DIVISION FROM 14213-0277

PIN CREATION DATE:
2015/09/04

OWNERS' NAMES
JOHNSTON, JAMES FRAZER

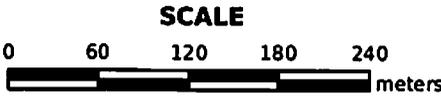
CAPACITY SHARE
ROWN

| REG. NUM. | DATE | INSTRUMENT TYPE | AMOUNT | PARTIES FROM | PARTIES TO | CERT/CHKD |
|--|------------|------------------|--------|---|------------------------|-----------|
| <p>** PRINTOUT INCLUDES ALL DOCUMENT TYPES AND DELETED INSTRUMENTS SINCE 2015/09/04 **</p> <p>**SUBJECT, ON FIRST REGISTRATION UNDER THE LAND TITLES ACT, TO:</p> <p>** SUBSECTION 44(1) OF THE LAND TITLES ACT, EXCEPT PARAGRAPH 11, PARAGRAPH 14, PROVINCIAL SUCCESSION DUTIES * AND ESCHEATS OR FORFEITURE TO THE CROWN.</p> <p>** 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.</p> <p>** ANY LEASE TO WHICH THE SUBSECTION 70(2) OF THE REGISTRY ACT APPLIES.</p> <p>**DATE OF CONVERSION TO LAND TITLES: 1998/12/22 **</p> <p>NOTE: THE NO DEALINGS INDICATOR IS IN EFFECT ON THIS PROPERTY</p> | | | | | | |
| RO1032242 | 1993/03/02 | TRANSFER | 52 | | JOHNSTON, JAMES FRAZER | C |
| 43R36614 | 2015/06/26 | PLAN REFERENCE | | | | C |
| PR2760174 | 2015/08/05 | RESTRICTION-LAND | | JOHNSTON, JAMES FRAZER JOHNSTON, FRANCES ELEANOR | | C |
| <p>REMARKS: NO TRANSFER O9R CHARGE WITHOUT CONSENT OF THE REGIONAL MUNICIPALITY OF PEEL PTS 2 & 3 ON 43R36614 & PT 1 ON 43R5454</p> | | | | | | |



ServiceOntario

PRINTED ON 12 JUN, 2019 AT 14:59:03
FOR BERTUCCI1



PROPERTY INDEX MAP PEEL(No. 43)

LEGEND

| | |
|----------------------------------|-------|
| FREEHOLD PROPERTY | |
| LEASEHOLD PROPERTY | |
| LIMITED INTEREST PROPERTY | |
| CONDOMINIUM PROPERTY | |
| RETIRED PIN (MAP UPDATE PENDING) | |
| PROPERTY NUMBER | 0449 |
| BLOCK NUMBER | 08050 |
| GEOGRAPHIC FABRIC | |
| EASEMENT | |

THIS IS NOT A PLAN OF SURVEY

NOTES

- REVIEW THE TITLE RECORDS FOR COMPLETE PROPERTY INFORMATION AS THIS MAP MAY NOT REFLECT RECENT REGISTRATIONS
- THIS MAP WAS COMPILED FROM PLANS AND DOCUMENTS RECORDED IN THE LAND REGISTRATION SYSTEM AND HAS BEEN PREPARED FOR PROPERTY INDEXING PURPOSES ONLY
- FOR DIMENSIONS OF PROPERTIES BOUNDARIES SEE RECORDED PLANS AND DOCUMENTS
- ONLY MAJOR EASEMENTS ARE SHOWN
- REFERENCE PLANS UNDERLYING MORE RECENT REFERENCE PLANS ARE NOT ILLUSTRATED



Appendix D

EcoLog ERIS Report



DATABASE REPORT

Project Property: *Johnston Transit Facility, City of Brampton
10192 Highway 50
Brampton ON L6P 0G4*

Project No: *665125*

Report Type: *RSC Report - Quote*

Order No: *20190508200*

Requested by: *SNC-Lavalin Inc.*

Date Completed: *July 31, 2019*

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Executive Summary

Property Information:

Project Property: *Johnston Transit Facility, City of Brampton
10192 Highway 50 Brampton ON L6P 0G4*

Project No: 665125

Order Information:

Order No: 20190508200
Date Requested: May 8, 2019
Requested by: SNC-Lavalin Inc.
Report Type: RSC Report - Quote

Historical/Products:

Aerial Photographs *Aerials - National Collection - .tiff files*
City Directory Search *CD - Subject Site plus 10 Adjacent Properties*
Insurance Products *Fire Insurance Maps/Inspection Reports/Site Plans*
Land Title Search *Historical Land Title Search*
Topographic Map *Ontario Base Map (OBM)*

Executive Summary: Report Summary

| <i>Database</i> | <i>Name</i> | <i>Searched</i> | <i>Project Property</i> | <i>Boundary to 0.30km</i> | <i>Total</i> |
|-----------------|---|-----------------|-------------------------|---------------------------|--------------|
| AAGR | <i>Abandoned Aggregate Inventory</i> | Y | 0 | 0 | 0 |
| AGR | <i>Aggregate Inventory</i> | Y | 0 | 0 | 0 |
| AMIS | <i>Abandoned Mine Information System</i> | Y | 0 | 0 | 0 |
| ANDR | <i>Anderson's Waste Disposal Sites</i> | Y | 0 | 2 | 2 |
| AUWR | <i>Automobile Wrecking & Supplies</i> | Y | 0 | 0 | 0 |
| BORE | <i>Borehole</i> | Y | 0 | 0 | 0 |
| CA | <i>Certificates of Approval</i> | Y | 0 | 1 | 1 |
| CDRY | <i>Dry Cleaning Facilities</i> | Y | 0 | 0 | 0 |
| CFOT | <i>Commercial Fuel Oil Tanks</i> | Y | 0 | 0 | 0 |
| CHEM | <i>Chemical Register</i> | Y | 0 | 0 | 0 |
| CNG | <i>Compressed Natural Gas Stations</i> | Y | 0 | 0 | 0 |
| COAL | <i>Inventory of Coal Gasification Plants and Coal Tar Sites</i> | Y | 0 | 0 | 0 |
| CONV | <i>Compliance and Convictions</i> | Y | 0 | 0 | 0 |
| CPU | <i>Certificates of Property Use</i> | Y | 0 | 0 | 0 |
| DRL | <i>Drill Hole Database</i> | Y | 0 | 0 | 0 |
| EASR | <i>Environmental Activity and Sector Registry</i> | Y | 0 | 3 | 3 |
| EBR | <i>Environmental Registry</i> | Y | 0 | 1 | 1 |
| ECA | <i>Environmental Compliance Approval</i> | Y | 0 | 5 | 5 |
| EEM | <i>Environmental Effects Monitoring</i> | Y | 0 | 0 | 0 |
| EHS | <i>ERIS Historical Searches</i> | Y | 1 | 8 | 9 |
| EIIS | <i>Environmental Issues Inventory System</i> | Y | 0 | 0 | 0 |
| EMHE | <i>Emergency Management Historical Event</i> | Y | 0 | 0 | 0 |
| EPAR | <i>Environmental Penalty Annual Report</i> | Y | 0 | 0 | 0 |
| EXP | <i>List of TSSA Expired Facilities</i> | Y | 0 | 2 | 2 |
| FCON | <i>Federal Convictions</i> | Y | 0 | 0 | 0 |
| FCS | <i>Contaminated Sites on Federal Land</i> | Y | 0 | 0 | 0 |
| FOFT | <i>Fisheries & Oceans Fuel Tanks</i> | Y | 0 | 0 | 0 |
| FST | <i>Fuel Storage Tank</i> | Y | 0 | 1 | 1 |
| FSTH | <i>Fuel Storage Tank - Historic</i> | Y | 0 | 2 | 2 |
| GEN | <i>Ontario Regulation 347 Waste Generators Summary</i> | Y | 0 | 109 | 109 |
| GHG | <i>Greenhouse Gas Emissions from Large Facilities</i> | Y | 0 | 0 | 0 |
| HINC | <i>TSSA Historic Incidents</i> | Y | 0 | 2 | 2 |
| IAFT | <i>Indian & Northern Affairs Fuel Tanks</i> | Y | 0 | 0 | 0 |
| INC | <i>TSSA Incidents</i> | Y | 0 | 2 | 2 |
| LIMO | <i>Landfill Inventory Management Ontario</i> | Y | 0 | 0 | 0 |
| MINE | <i>Canadian Mine Locations</i> | Y | 0 | 0 | 0 |

| Database | Name | Searched | Project Property | Boundary to 0.30km | Total |
|-----------------|--|-----------------|-------------------------|---------------------------|--------------|
| MNR | <i>Mineral Occurrences</i> | Y | 0 | 0 | 0 |
| NATE | <i>National Analysis of Trends in Emergencies System (NATES)</i> | Y | 0 | 0 | 0 |
| NCPL | <i>Non-Compliance Reports</i> | Y | 0 | 0 | 0 |
| NDFT | <i>National Defense & Canadian Forces Fuel Tanks</i> | Y | 0 | 0 | 0 |
| NDSP | <i>National Defense & Canadian Forces Spills</i> | Y | 0 | 0 | 0 |
| NDWD | <i>National Defence & Canadian Forces Waste Disposal Sites</i> | Y | 0 | 0 | 0 |
| NEBI | <i>National Energy Board Pipeline Incidents</i> | Y | 0 | 0 | 0 |
| NEBP | <i>National Energy Board Wells</i> | Y | 0 | 0 | 0 |
| NEES | <i>National Environmental Emergencies System (NEES)</i> | Y | 0 | 0 | 0 |
| NPCB | <i>National PCB Inventory</i> | Y | 0 | 0 | 0 |
| NPRI | <i>National Pollutant Release Inventory</i> | Y | 0 | 22 | 22 |
| OGWE | <i>Oil and Gas Wells</i> | Y | 0 | 0 | 0 |
| OOGW | <i>Ontario Oil and Gas Wells</i> | Y | 0 | 0 | 0 |
| OPCB | <i>Inventory of PCB Storage Sites</i> | Y | 0 | 0 | 0 |
| ORD | <i>Orders</i> | Y | 0 | 0 | 0 |
| PAP | <i>Canadian Pulp and Paper</i> | Y | 0 | 0 | 0 |
| PCFT | <i>Parks Canada Fuel Storage Tanks</i> | Y | 0 | 0 | 0 |
| PES | <i>Pesticide Register</i> | Y | 0 | 0 | 0 |
| PINC | <i>TSSA Pipeline Incidents</i> | Y | 0 | 1 | 1 |
| PRT | <i>Private and Retail Fuel Storage Tanks</i> | Y | 0 | 1 | 1 |
| PTTW | <i>Permit to Take Water</i> | Y | 0 | 0 | 0 |
| REC | <i>Ontario Regulation 347 Waste Receivers Summary</i> | Y | 0 | 0 | 0 |
| RSC | <i>Record of Site Condition</i> | Y | 0 | 0 | 0 |
| RST | <i>Retail Fuel Storage Tanks</i> | Y | 0 | 0 | 0 |
| SCT | <i>Scott's Manufacturing Directory</i> | Y | 0 | 12 | 12 |
| SPL | <i>Ontario Spills</i> | Y | 0 | 7 | 7 |
| SRDS | <i>Wastewater Discharger Registration Database</i> | Y | 0 | 0 | 0 |
| TANK | <i>Anderson's Storage Tanks</i> | Y | 0 | 0 | 0 |
| TCFT | <i>Transport Canada Fuel Storage Tanks</i> | Y | 0 | 0 | 0 |
| VAR | <i>TSSA Variances for Abandonment of Underground Storage Tanks</i> | Y | 0 | 0 | 0 |
| WDS | <i>Waste Disposal Sites - MOE CA Inventory</i> | Y | 0 | 0 | 0 |
| WDSH | <i>Waste Disposal Sites - MOE 1991 Historical Approval Inventory</i> | Y | 0 | 0 | 0 |
| WWIS | <i>Water Well Information System</i> | Y | 3 | 25 | 28 |
| Total: | | | 4 | 206 | 210 |

Executive Summary: Site Report Summary - Project Property

| <i>Map Key</i> | <i>DB</i> | <i>Company/Site Name</i> | <i>Address</i> | <i>Dir/Dist (m)</i> | <i>Elev diff (m)</i> | <i>Page Number</i> |
|-------------------|-----------|--------------------------|--|---------------------|----------------------|--------------------|
| 1 | WWIS | | lot 11 con 11 ON <i>Well ID:</i> 4905218 | -/0.0 | -0.75 | 47 |
| 2 | WWIS | | ON <i>Well ID:</i> 7279718 | -/0.0 | 1.00 | 50 |
| 3 | WWIS | | Brampton ON <i>Well ID:</i> 7249974 | -/0.0 | 0.44 | 51 |
| 5 | EHS | | 10192 hwy 50 brampton ON | N/18.3 | 1.00 | 52 |

Executive Summary: Site Report Summary - Surrounding Properties

| Map Key | DB | Company/Site Name | Address | Dir/Dist (m) | Elev Diff (m) | Page Number |
|--------------------|-----------|---|--|---------------------|----------------------|--------------------|
| 4 | WWIS | | Brampton ON Well ID: 7282340 | NNE/5.3 | 0.00 | 53 |
| 6 | WWIS | | lot 12 con 11 ON Well ID: 4905247 | NW/28.6 | -1.04 | 55 |
| 7 | WWIS | | Brampton ON Well ID: 7249973 | ESE/31.2 | -2.00 | 58 |
| 8 | GEN | TOTAL CRANE RENTAL LTD. | 2 CADETTA ROAD BRAMPTON ON L6T 3Z8 | N/43.6 | 1.00 | 60 |
| 8 | INC | | 2 CADETTA RD, BRAMPTON ON | N/43.6 | 1.00 | 60 |
| 8 | SPL | | 2 Cadetta Rd Brampton ON | N/43.6 | 1.00 | 61 |
| 9 | WWIS | | lot 12 con 11 ON Well ID: 4906179 | N/53.2 | 1.00 | 62 |
| 10 | WWIS | | Brampton ON Well ID: 7249975 | N/58.9 | 1.00 | 65 |
| 11 | WWIS | | lot 11 con 11 ON Well ID: 4902862 | SSE/60.6 | -2.00 | 67 |
| 12 | EXP | PILEN CONSTRUCTION OF CANADA LIMITED | 22 CADETTA RD RR 9 BRAMPTON ON | NNW/69.6 | 0.44 | 70 |
| 12 | EXP | PILEN CONSTRUCTION OF CANADA LIMITED | 22 CADETTA RD RR 9 BRAMPTON ON | NNW/69.6 | 0.44 | 71 |
| 12 | GEN | PILEN CONSTRUCTION OF CANADA LIMITED | 22 CADETTA ROAD BRAMPTON ON L6P 0X4 | NNW/69.6 | 0.44 | 71 |

| <i>Map Key</i> | <i>DB</i> | <i>Company/Site Name</i> | <i>Address</i> | <i>Dir/Dist (m)</i> | <i>Elev Diff (m)</i> | <i>Page Number</i> |
|--------------------|-----------|--------------------------------------|---|---------------------|----------------------|--------------------|
| 12 | GEN | PILEN CONSTRUCTION OF CANADA LIMITED | 22 CADETTA ROAD BRAMPTON ON L6T 3Z8 | NNW/69.6 | 0.44 | 71 |
| 12 | GEN | PILEN CONSTRUCTION OF CANADA LIMITED | 22 CADETTA ROAD BRAMPTON ON L6T 3Z8 | NNW/69.6 | 0.44 | 72 |
| 12 | GEN | PILEN CONSTRUCTION OF CANADA LTD. | RR #9, 22 CADETTA ROAD BRAMPTON ON L6T 3Z8 | NNW/69.6 | 0.44 | 72 |
| 12 | GEN | PILEN CONSTRUCTION OF CANADA LIMITED | 22 CADETTA ROAD BRAMPTON ON L6P0X4 | NNW/69.6 | 0.44 | 72 |
| 12 | GEN | PILEN CONSTRUCTION OF CANADA LTD. | RR #9, 22 CADETTA ROAD BRAMPTON ON L6T 3Z8 | NNW/69.6 | 0.44 | 73 |
| 12 | GEN | PILEN CONSTRUCTION OF CANADA LIMITED | 22 CADETTA ROAD BRAMPTON ON L6P0X4 | NNW/69.6 | 0.44 | 73 |
| 12 | GEN | PILEN CONSTRUCTION OF CANADA LIMITED | 22 CADETTA ROAD BRAMPTON ON L6P0X4 | NNW/69.6 | 0.44 | 74 |
| 12 | GEN | PILEN CONSTRUCTION OF CANADA LIMITED | 22 CADETTA ROAD BRAMPTON ON | NNW/69.6 | 0.44 | 74 |
| 12 | GEN | PILEN CONSTRUCTION OF CANADA LIMITED | 22 CADETTA ROAD BRAMPTON ON L6P 0X4 | NNW/69.6 | 0.44 | 75 |
| 12 | GEN | PILEN CONSTRUCTION OF CANADA LIMITED | 22 CADETTA ROAD BRAMPTON ON L6P0X4 | NNW/69.6 | 0.44 | 75 |
| 12 | GEN | PILEN CONSTRUCTION OF CANADA LIMITED | 22 CADETTA ROAD BRAMPTON ON L6P 0X4 | NNW/69.6 | 0.44 | 76 |
| 12 | GEN | PILEN CONSTRUCTION OF CANADA LIMITED | 22 CADETTA ROAD BRAMPTON ON L6P0X4 | NNW/69.6 | 0.44 | 76 |
| 12 | PRT | PILEN CONST OF CANADA INC | 22 CADETTA RD RR 9 BRAMPTON ON L6T3Z8 | NNW/69.6 | 0.44 | 77 |

| <i>Map Key</i> | <i>DB</i> | <i>Company/Site Name</i> | <i>Address</i> | <i>Dir/Dist (m)</i> | <i>Elev Diff (m)</i> | <i>Page Number</i> |
|--------------------|-----------|---------------------------------------|---|---------------------|----------------------|--------------------|
| 13 | CA | TRISTAR COATINGS, DIV. OF TREBOR IND. | 18 CADETTA RD., LOT 8/CON.II BRAMPTON CITY ON L6T 3Z8 | NW/79.1 | -1.79 | 77 |
| 13 | GEN | TRISTAR COATINGS LTD | 18 Cadetta Road BRAMPTON ON L6P 0X4 | NW/79.1 | -1.79 | 77 |
| 13 | GEN | TRISTAR COATINGS LTD | TRISTAR COATINGS LTD 18 CADETTA ROAD, R.R. #9 BRAMPTON ON L6P 0X4 | NW/79.1 | -1.79 | 78 |
| 13 | GEN | TRISTAR COATINGS LTD | 18 Cadetta Road BRAMPTON ON L6P 0X4 | NW/79.1 | -1.79 | 78 |
| 13 | GEN | TRISTAR COATINGS LTD | 18 CADETTA ROAD BRAMPTON ON L6T 3Z8 | NW/79.1 | -1.79 | 79 |
| 13 | GEN | TRISTAR COATINGS DIVISION | 18 CADETTA ROAD BRAMPTON ON L6T 3Z8 | NW/79.1 | -1.79 | 79 |
| 13 | GEN | TRISTAR COATINGS LTD | TRISTAR COATINGS LTD 18 CADETTA ROAD, R.R. #9 BRAMPTON ON L6P 0X4 | NW/79.1 | -1.79 | 79 |
| 13 | GEN | TRISTAR COATINGS LTD | TRISTAR COATINGS LTD 18 CADETTA ROAD, BRAMPTON ON L6P 0X4 | NW/79.1 | -1.79 | 80 |
| 13 | GEN | TRISTAR COATINGS LTD | TRISTAR COATINGS LTD 18 CADETTA ROAD, BRAMPTON ON L6P 0X4 | NW/79.1 | -1.79 | 80 |
| 13 | GEN | TRISTAR COATINGS LTD | TRISTAR COATINGS LTD 18 CADETTA ROAD, BRAMPTON ON L6P 0X4 | NW/79.1 | -1.79 | 81 |
| 13 | GEN | TRISTAR COATINGS LTD | TRISTAR COATINGS LTD 18 CADETTA ROAD, BRAMPTON ON | NW/79.1 | -1.79 | 81 |
| 13 | GEN | TRISTAR COATINGS LTD | TRISTAR COATINGS LTD 18 CADETTA ROAD, R.R. #9 BRAMPTON ON L6P 0X4 | NW/79.1 | -1.79 | 82 |

| <i>Map Key</i> | <i>DB</i> | <i>Company/Site Name</i> | <i>Address</i> | <i>Dir/Dist (m)</i> | <i>Elev Diff (m)</i> | <i>Page Number</i> |
|--------------------|-----------|--------------------------------------|--|---------------------|----------------------|--------------------|
| 13 | GEN | TRISTAR COATINGS LTD | 18 Cadetta Road BRAMPTON ON L6P 0X4 | NW/79.1 | -1.79 | 82 |
| 13 | GEN | TRISTAR COATINGS | DIVISION OF TREBOR 18 CADETTA RD. R.R.#9 BRAMPTON ON L6T 3Z8 | NW/79.1 | -1.79 | 83 |
| 13 | GEN | TRISTAR COATINGS LTD | 18 Cadetta Road BRAMPTON ON L6P 0X4 | NW/79.1 | -1.79 | 83 |
| 13 | GEN | TRISTAR COATINGS DIVISION 38-534 | 18 CADETTA ROAD BRAMPTON ON L6T 3Z8 | NW/79.1 | -1.79 | 84 |
| 13 | NPRI | TRISTAR COATINGS LTD. | 18 CADETTA ROAD NOT AVAILABLE BRAMPTON ON L6P0X4 | NW/79.1 | -1.79 | 84 |
| 13 | NPRI | TRISTAR COATINGS LTD | 18 CADETTA ROAD NOT AVAILABLE BRAMPTON ON L6P0X4 | NW/79.1 | -1.79 | 85 |
| 13 | NPRI | TRISTAR COATINGS LTD. | 18 CADETTA ROAD NOT AVAILABLE BRAMPTON ON L6P0X4 | NW/79.1 | -1.79 | 88 |
| 13 | NPRI | TRISTAR COATINGS LTD. | 18 CADETTA ROAD NOT AVAILABLE BRAMPTON ON L6T 3Z8 | NW/79.1 | -1.79 | 89 |
| 13 | NPRI | TREBOR IND. TRISTAR COATINGS DIV. | 18 CADETTA ROAD NOT AVAILABLE BRAMPTON ON L6P0X4 | NW/79.1 | -1.79 | 91 |
| 13 | NPRI | TREBOR IND. TRISTAR COATINGS DIV. | 18 CADETTA ROAD NOT AVAILABLE BRAMPTON ON L6P0X4 | NW/79.1 | -1.79 | 92 |
| 13 | NPRI | TRISTAR COATINGS LTD | 18 CADETTA ROAD NOT AVAILABLE BRAMPTON ON L6T 3Z8 | NW/79.1 | -1.79 | 93 |
| 13 | NPRI | TRISTAR COATINGS LTD. | 18 CADETTA ROAD NOT AVAILABLE BRAMPTON ON L6P0X4 | NW/79.1 | -1.79 | 95 |
| 13 | NPRI | TREBOR IND. TRISTAR COATINGS DIV. | 18 CADETTA ROAD NOT AVAILABLE BRAMPTON ON L6T 3Z8 | NW/79.1 | -1.79 | 96 |

| Map Key | DB | Company/Site Name | Address | Dir/Dist (m) | Elev Diff (m) | Page Number |
|--------------------|-----------|-----------------------------------|---|---------------------|----------------------|---------------------|
| 13 | NPRI | TREBOR IND. TRISTAR COATINGS DIV. | 18 CADETTA ROAD NOT AVAILABLE BRAMPTON ON L6T 3Z8 | NW/79.1 | -1.79 | 97 |
| 13 | NPRI | TREBOR IND. TRISTAR COATINGS DIV. | 18 CADETTA ROAD NOT AVAILABLE BRAMPTON ON L6P0X4 | NW/79.1 | -1.79 | 98 |
| 13 | NPRI | TRISTAR COATINGS LTD | 18 CADETTA ROAD NOT AVAILABLE BRAMPTON ON L6P0X4 | NW/79.1 | -1.79 | 99 |
| 13 | NPRI | TRISTAR COATINGS LTD | 18 CADETTA ROAD NOT AVAILABLE BRAMPTON ON L6P0X4 | NW/79.1 | -1.79 | 101 |
| 13 | NPRI | TRISTAR COATINGS LTD. | 18 CADETTA ROAD NOT AVAILABLE BRAMPTON ON L6T 3Z8 | NW/79.1 | -1.79 | 103 |
| 13 | NPRI | TRISTAR COATINGS LTD. | 18 CADETTA ROAD NOT AVAILABLE BRAMPTON ON L6P0X4 | NW/79.1 | -1.79 | 104 |
| 13 | NPRI | TRISTAR COATINGS LTD | 18 CADETTA ROAD NOT AVAILABLE BRAMPTON ON L6P0X4 | NW/79.1 | -1.79 | 105 |
| 13 | NPRI | TRISTAR COATINGS LTD | 18 CADETTA ROAD NOT AVAILABLE BRAMPTON ON L6P0X4 | NW/79.1 | -1.79 | 108 |
| 13 | NPRI | TRISTAR COATINGS LTD | 18 CADETTA ROAD NOT AVAILABLE BRAMPTON ON L6P0X4 | NW/79.1 | -1.79 | 110 |
| 13 | NPRI | TRISTAR COATINGS LTD. | 18 CADETTA ROAD NOT AVAILABLE BRAMPTON ON L6P0X4 | NW/79.1 | -1.79 | 112 |
| 13 | NPRI | Tristar Coatings Ltd. | 18 CADETTA ROAD NOT AVAILABLE BRAMPTON ON L6P0X4 | NW/79.1 | -1.79 | 114 |
| 13 | NPRI | TREBOR INDUSTRIES | 18 CADETTA ROAD NOT AVAILABLE BRAMPTON ON L6P0X4 | NW/79.1 | -1.79 | 115 |
| 13 | NPRI | TRISTAR COATINGS LTD | 18 CADETTA ROAD NOT AVAILABLE BRAMPTON ON L6P0X4 | NW/79.1 | -1.79 | 116 |

| Map Key | DB | Company/Site Name | Address | Dir/Dist (m) | Elev Diff (m) | Page Number |
|--------------------|-----------|--------------------------------------|--|---------------------|----------------------|---------------------|
| 13 | SCT | Tristar Coatings Ltd. | 18 Cadetta Rd Brampton ON L6P 0X4 | NW/79.1 | -1.79 | 118 |
| 13 | SPL | Purolator Courier Ltd. | 18 Cadetta Rd Brampton ON L6P 0X4 | NW/79.1 | -1.79 | 119 |
| 14 | WWIS | | lot 12 con 11 ON Well ID: 4908701 | WSW/86.0 | -2.00 | 119 |
| 15 | GEN | Roma Building Restoration Ltd | 20 Cadetta Rd Unit # 7 Brampton ON L6P 0X4 | NW/86.4 | -0.74 | 123 |
| 16 | EHS | | 20 Cadetta Road Brampton ON L6P 0X4 | NW/87.7 | -0.74 | 123 |
| 16 | SCT | Quality Fabricating | 20 Cadetta Rd Brampton ON L6T 3Z8 | NW/87.7 | -0.74 | 124 |
| 16 | SCT | Quality Fabricating & Machining Ltd. | 20 Cadetta Rd Brampton ON L6T 3Z8 | NW/87.7 | -0.74 | 124 |
| 16 | SCT | QFM Ltd. | 20 Cadetta Rd Brampton ON L6P 0X4 | NW/87.7 | -0.74 | 124 |
| 17 | WWIS | | BRAMPTON ON Well ID: 7241945 | N/95.3 | 1.00 | 124 |
| 18 | WWIS | | lot 12 con 11 ON Well ID: 4906478 | NNW/97.7 | 0.09 | 127 |
| 19 | EASR | THE REGIONAL MUNICIPALITY OF PEEL | ON | ESE/98.0 | -2.73 | 130 |
| 20 | GEN | WYNDALE PAVING CO. LTD. | 24 Cadetta Rd Brampton ON L6P 0X4 | NNW/104.4 | 1.00 | 130 |
| 20 | GEN | WYNDALE PAVING CO. LTD. | 24 Cadetta Rd Brampton ON L6P 0X4 | NNW/104.4 | 1.00 | 130 |

| Map Key | DB | Company/Site Name | Address | Dir/Dist (m) | Elev Diff (m) | Page Number |
|--------------------|-----------|--------------------------|--|---------------------|----------------------|---------------------|
| 20 | GEN | WYNDALE PAVING CO. LTD. | 24 Cadetta Rd Brampton ON L6P 0X4 | NNW/104.4 | 1.00 | 131 |
| 20 | GEN | WYNDALE PAVING CO. LTD. | 24 Cadetta Rd Brampton ON L6P 0X4 | NNW/104.4 | 1.00 | 131 |
| 20 | HINC | | 24 CADETTA ROAD BRAMPTON ON L6P 0X4 | NNW/104.4 | 1.00 | 131 |
| 20 | SCT | Roma Fence Ltd. | 24 Cadetta Rd Brampton ON L6P 0X4 | NNW/104.4 | 1.00 | 132 |
| 21 | WWIS | | ON Well ID: 7304020 | W/109.3 | -2.00 | 132 |
| 22 | EHS | | 24 Cadetta Rd Brampton ON L6P0X4 | NNW/111.5 | 1.00 | 133 |
| 23 | ECA | O@B Corporation Inc. | 4 Cadetta Rd Brampton ON L6A 4C1 | N/123.7 | 1.00 | 133 |
| 24 | WWIS | | lot 12 con 11 ON Well ID: 4905812 | NW/127.9 | -2.00 | 134 |
| 25 | WWIS | | Brampton ON Well ID: 7249972 | ESE/129.0 | -2.79 | 137 |
| 26 | WWIS | | BRAMPTON ON Well ID: 7241946 | N/131.1 | 1.00 | 139 |
| 27 | WWIS | | KLEINBURG ON Well ID: 7302203 | E/144.7 | -2.52 | 141 |
| 28 | EHS | | 16 Cadetta Rd Brampton ON L6P 0X4 | WNW/148.4 | -2.00 | 144 |
| 28 | GEN | 1389147 ONTARIO INC | 16 CADETTA ROAD BRAMPTON ON L6P 0X4 | WNW/148.4 | -2.00 | 144 |

| Map Key | DB | Company/Site Name | Address | Dir/Dist (m) | Elev Diff (m) | Page Number |
|--------------------|-----------|--------------------------------------|--|---------------------|----------------------|---------------------|
| 28 | GEN | 1389147 ONTARIO INC | 16 CADETTA ROAD BRAMPTON ON L6P 0X4 | WNW/148.4 | -2.00 | 144 |
| 28 | GEN | 1389147 ONTARIO INC | 16 CADETTA ROAD BRAMPTON ON L6P 0X4 | WNW/148.4 | -2.00 | 145 |
| 28 | GEN | 1389147 ONTARIO INC | 16 CADETTA ROAD BRAMPTON ON | WNW/148.4 | -2.00 | 145 |
| 28 | GEN | AVENUE STRUCTURES CORPORATION | 16 CADETTA ROAD BRAMPTON ON L6T 3Z8 | WNW/148.4 | -2.00 | 145 |
| 28 | GEN | 1389147 ONTARIO INC | 16 CADETTA ROAD BRAMPTON ON L6P 0X4 | WNW/148.4 | -2.00 | 146 |
| 28 | GEN | AVENUE STRUC(OUT OF BUSINESS) | 16 CADETTA ROAD BRAMPTON ON L6T 3Z8 | WNW/148.4 | -2.00 | 146 |
| 28 | GEN | Avenue Building Corporation | 16 CADETTA ROAD BRAMPTON ON L6T 3Z8 | WNW/148.4 | -2.00 | 146 |
| 28 | GEN | CANFORM STRUCTURES LIMITED | 16 CADETTA ROAD BRAMPTON ON L6T 3Z8 | WNW/148.4 | -2.00 | 147 |
| 28 | GEN | AVENUE STRUCTURES CORPORATION 03-217 | 16 CADETTA ROAD BRAMPTON ON L6T 3Z8 | WNW/148.4 | -2.00 | 147 |
| 28 | GEN | 1389147 ONTARIO INC | 16 CADETTA ROAD BRAMPTON ON L6P 0X4 | WNW/148.4 | -2.00 | 147 |
| 28 | GEN | AVENUE STRUCTURES CORPORATION | 16 CADETTA ROAD BRAMPTON ON L6T 3Z8 | WNW/148.4 | -2.00 | 147 |
| 28 | GEN | 1389147 ONTARIO INC | 16 CADETTA ROAD BRAMPTON ON L6P0X4 | WNW/148.4 | -2.00 | 148 |
| 28 | GEN | 1389147 ONTARIO INC | 16 CADETTA ROAD BRAMPTON ON L6P0X4 | WNW/148.4 | -2.00 | 148 |

| Map Key | DB | Company/Site Name | Address | Dir/Dist (m) | Elev Diff (m) | Page Number |
|--------------------|-----------|------------------------------------|--|---------------------|----------------------|---------------------|
| 28 | GEN | 1389147 ONTARIO INC | 16 CADETTA ROAD BRAMPTON ON L6P0X4 | WNW/148.4 | -2.00 | 148 |
| 28 | GEN | 1389147 ONTARIO INC | 16 CADETTA ROAD BRAMPTON ON L6P0X4 | WNW/148.4 | -2.00 | 149 |
| 28 | GEN | 1389147 ONTARIO INC | 16 CADETTA ROAD BRAMPTON ON L6P0X4 | WNW/148.4 | -2.00 | 149 |
| 29 | WWIS | | lot 12 con 11 ON Well ID: 4905769 | NW/156.2 | -0.14 | 149 |
| 30 | WWIS | | KLEINBURG ON Well ID: 7302202 | E/156.5 | -3.00 | 152 |
| 31 | WWIS | | lot 12 con 11 ON Well ID: 7225368 | WNW/157.8 | -2.00 | 155 |
| 32 | WWIS | | Brampton ON Well ID: 7178624 | NW/158.2 | -1.38 | 157 |
| 33 | ANDR | Coleraine junkyard 1976 | Kleinburg ON L0J 1C0 | NNW/160.5 | 1.00 | 160 |
| 34 | WWIS | | KLEINBURG ON Well ID: 7302201 | E/164.3 | -3.00 | 161 |
| 35 | ANDR | Coleraine junkyard 1969 | Kleinburg ON L0J 1C0 | NNW/164.6 | 1.00 | 163 |
| 36 | WWIS | | lot 12 con 11 ON Well ID: 4905768 | WNW/178.4 | -2.00 | 164 |
| 37 | EHS | | Hwy 50 Brampton ON | ESE/184.8 | -3.00 | 167 |
| 38 | GEN | JOE GALLO BROS. PAVING CO. LTD. | 6 CADETTA ROAD BRAMPTON ON L6T 3Z8 | N/187.5 | 1.00 | 167 |

| Map Key | DB | Company/Site Name | Address | Dir/Dist (m) | Elev Diff (m) | Page Number |
|--------------------|-----------|--------------------------------|---|---------------------|----------------------|---------------------|
| 39 | EHS | | Cadetta Road Brampton ON | WNW/188.6 | -1.00 | 168 |
| 40 | WWIS | | lot 12 con 11 ON Well ID: 4905813 | NW/193.2 | -0.37 | 168 |
| 41 | WWIS | | Brampton ON Well ID: 7166972 | NW/194.2 | -0.37 | 172 |
| 42 | GEN | Forest Contractors Ltd | 8 Cadetta Road Brampton ON L6P 0X4 | NNW/200.9 | 1.00 | 175 |
| 42 | GEN | Forest Contractors Ltd | 8 Cadetta Road Brampton ON L6P 0X4 | NNW/200.9 | 1.00 | 175 |
| 42 | GEN | Forest Contractors Ltd | 8 Cadetta Road Brampton ON L6P 0X4 | NNW/200.9 | 1.00 | 176 |
| 42 | GEN | Forest Contractors Ltd | 8 Cadetta Road Brampton ON L6P 0X4 | NNW/200.9 | 1.00 | 176 |
| 42 | GEN | Forest Contractors Ltd | 8 Cadetta Road Brampton ON L6P 0X4 | NNW/200.9 | 1.00 | 176 |
| 42 | GEN | Forest Contractors Ltd | 8 Cadetta Road Brampton ON | NNW/200.9 | 1.00 | 176 |
| 42 | GEN | Forest Contractors Ltd | 8 Cadetta Road Brampton ON | NNW/200.9 | 1.00 | 177 |
| 42 | PINC | | 8 Cadetta Road, Brampton ON | NNW/200.9 | 1.00 | 177 |
| 42 | SPL | Enbridge Gas Distribution Inc. | 8 Cadetta Road <UNOFFICIAL> Brampton ON L6P 0X4 | NNW/200.9 | 1.00 | 177 |
| 43 | EBR | Onsite Ready-Mix (2009) Corp. | 10 Cadetta Road Brampton, Regional Municipality of Peel CITY OF BRAMPTON ON | NNW/225.7 | 1.00 | 178 |

| Map Key | DB | Company/Site Name | Address | Dir/Dist (m) | Elev Diff (m) | Page Number |
|--------------------|-----------|----------------------------|--|---------------------|----------------------|---------------------|
| 43 | ECA | Bolton Ready Mix | 10 Cadetta Rd Brampton ON M5R 2B1 | NNW/225.7 | 1.00 | 178 |
| 43 | ECA | 752054 Ontario Limited | 10 Cadetta Rd Brampton ON M5R 2B1 | NNW/225.7 | 1.00 | 179 |
| 43 | ECA | Bolton Ready Mix | 10 Cadetta Road Brampton City, Regional Municipality of Peel L6P 0X4 ON | NNW/225.7 | 1.00 | 179 |
| 43 | ECA | 752054 Ontario Limited | 10 Cadetta Rd Brampton ON L6P 0X4 | NNW/225.7 | 1.00 | 179 |
| 43 | GEN | Onsite Ready-Mix Inc | 10 Cadetta Road Brampton ON L6P 0X4 | NNW/225.7 | 1.00 | 179 |
| 43 | GEN | ALTA CRANES LIMITED | 10 CADETTA ROAD, R.R. #9 BRAMPTON ON L6T 3Z8 | NNW/225.7 | 1.00 | 180 |
| 43 | GEN | Onsite Ready-Mix Inc | 10 Cadetta Road Brampton ON L6P 0X4 | NNW/225.7 | 1.00 | 180 |
| 43 | GEN | ALTA CRANES LIMITED | 10 CADETTA ROAD, R.R. #9 BRAMPTON ON L6T 3Z8 | NNW/225.7 | 1.00 | 180 |
| 43 | GEN | Onsite Ready-Mix Inc | 10 Cadetta Road Brampton ON L6P 0X4 | NNW/225.7 | 1.00 | 181 |
| 43 | GEN | ALTA CRANES LIMITED 02-216 | 10 CADETTA ROAD, R.R. #9 BRAMPTON ON L6T 3Z8 | NNW/225.7 | 1.00 | 181 |
| 43 | GEN | Magcrete Logistics | 10 Cadetta Road Brampton ON L6P 0X4 | NNW/225.7 | 1.00 | 181 |
| 43 | GEN | Magcrete Logistics | 10 Cadetta Road Brampton ON L6P 0X4 | NNW/225.7 | 1.00 | 181 |
| 43 | GEN | ADVANCED FENCE AND WIRE | 10 CADETTA ROAD BRAMPTON ON L6T 3Z8 | NNW/225.7 | 1.00 | 182 |

| Map Key | DB | Company/Site Name | Address | Dir/Dist (m) | Elev Diff (m) | Page Number |
|--------------------|-----------|----------------------------|---|---------------------|----------------------|---------------------|
| 43 | GEN | Magcrete Logistics | 10 Cadetta Road Brampton ON L6P 0X4 | NNW/225.7 | 1.00 | 182 |
| 43 | GEN | Magcrete Logistics | 10 Cadetta Road Brampton ON L6P 0X4 | NNW/225.7 | 1.00 | 182 |
| 43 | GEN | 1105976 ONTARIO LIMITED | 10 CADETTA ROAD BRAMPTON ON L6T 3Z8 | NNW/225.7 | 1.00 | 183 |
| 43 | SCT | Acculink Fence & Wire Inc. | 10 Cadetta Rd Brampton ON L6P 0X4 | NNW/225.7 | 1.00 | 183 |
| 43 | SCT | Dura Fence Inc. | 10 Cadetta Rd Brampton ON L6T 3Z8 | NNW/225.7 | 1.00 | 183 |
| 43 | SCT | Acculink Fence And Wire | 10 Cadetta Rd Brampton ON L6T 3Z8 | NNW/225.7 | 1.00 | 184 |
| 43 | SCT | YORK FENCE COMPANY LTD. | 10 Cadetta Rd Brampton ON L6T 3Z8 | NNW/225.7 | 1.00 | 184 |
| 44 | GEN | GREENSTAR CONSTRUCTION | 12 CADETTA RD UNIT 8 BRAMPTON ON L6P0X4 | NW/227.0 | -0.23 | 184 |
| 44 | GEN | Terrapave Holdings Inc | 12 Cadetta Rd Unit 1 Brampton ON L6P 0X4 | NW/227.0 | -0.23 | 184 |
| 44 | GEN | Terrapave Holdings Inc | 12 Cadetta Rd Unit 1 Brampton ON L6P 0X4 | NW/227.0 | -0.23 | 185 |
| 44 | GEN | GREENSTAR CONSTRUCTION | 12 CADETTA RD UNIT 8 BRAMPTON ON L6P0X4 | NW/227.0 | -0.23 | 185 |
| 44 | GEN | GREENSTAR CONSTRUCTION | 12 CADETTA RD UNIT 8 BRAMPTON ON L6P0X4 | NW/227.0 | -0.23 | 185 |
| 44 | GEN | GREENSTAR CONSTRUCTION | 12 CADETTA RD UNIT 8 BRAMPTON ON L6P0X4 | NW/227.0 | -0.23 | 186 |

| Map Key | DB | Company/Site Name | Address | Dir/Dist (m) | Elev Diff (m) | Page Number |
|--------------------|-----------|------------------------------------|--|---------------------|----------------------|---------------------|
| 45 | SCT | Cedar Mills Welding | 12 Cadetta Rd Suite 4 Brampton ON L6P 0X4 | NW/229.4 | -0.33 | 186 |
| 46 | GEN | TIME AND PRECISION CO. LTD. | 14 CADETTA ROAD BRAMPTON ON L6P 0X4 | WNW/235.0 | -1.00 | 186 |
| 46 | GEN | TMT Freight Systems | 14 Caldetta Road Brampton ON L6P 0X4 | WNW/235.0 | -1.00 | 186 |
| 46 | GEN | TIME AND PRECISION CO. LTD. 38-707 | 14 CADETTA ROAD BRAMPTON ON L6T 3Z8 | WNW/235.0 | -1.00 | 187 |
| 47 | HINC | | 14 CADETTA ROAD BRAMPTON ON L6P 0X4 | NW/248.0 | -1.00 | 187 |
| 47 | SCT | TIME & PRECISION CO. LTD. | 14 CADETTA RD RR 9 BRAMPTON ON L6T 3Z8 | NW/248.0 | -1.00 | 187 |
| 47 | SCT | D & D Tool & Machine Co. | 14 Cadetta Rd Brampton ON L6P 0X4 | NW/248.0 | -1.00 | 188 |
| 48 | EHS | | 10410 Coleraine Drive Brampton ON L6P 0V4 | NNW/261.7 | 3.59 | 188 |
| 49 | EASR | 2278581 ONTARIO LIMITED | 9701 HIGHWAY 50 WOODBIDGE ON L4H 2G4 | NNE/263.3 | -1.00 | 188 |
| 49 | EASR | 2563570 ONTARIO LTD. | 9701 HIGHWAY 50 WOODBIDGE ON L4H 2G4 | NNE/263.3 | -1.00 | 188 |
| 49 | EHS | | 9701 Highway No. 50 Kleinburg ON | NNE/263.3 | -1.00 | 189 |
| 49 | GEN | jb express | 9701 highway 50 woodbridge ON L4H2G4 | NNE/263.3 | -1.00 | 189 |
| 49 | GEN | jb express | 9701 highway 50 woodbridge ON L4H2G4 | NNE/263.3 | -1.00 | 189 |

| Map Key | DB | Company/Site Name | Address | Dir/Dist (m) | Elev Diff (m) | Page Number |
|--------------------|-----------|-----------------------------|---|---------------------|----------------------|---------------------|
| 49 | GEN | jb express | 9701 highway 50 woodbridge ON L4H2G4 | NNE/263.3 | -1.00 | 189 |
| 49 | GEN | CONSOLIDATED FASTFRATE INC. | 9701 HIGHWAY 50 VAUGHAN ON L4H 2G4 | NNE/263.3 | -1.00 | 190 |
| 49 | GEN | CONSOLIDATED FASTFRATE INC. | 9701 HIGHWAY 50 VAUGHAN ON | NNE/263.3 | -1.00 | 191 |
| 49 | GEN | CONSOLIDATED FASTFRATE INC. | 9701 HIGHWAY 50 VAUGHAN ON L4H 2G4 | NNE/263.3 | -1.00 | 191 |
| 49 | GEN | CONSOLIDATED FASTFRATE INC. | 9701 HIGHWAY 50 VAUGHAN ON L4H 2G4 | NNE/263.3 | -1.00 | 192 |
| 49 | GEN | CONSOLIDATED FASTFRATE INC. | 9701 HIGHWAY 50 VAUGHAN ON L4H 2G4 | NNE/263.3 | -1.00 | 193 |
| 49 | GEN | CONSOLIDATED FASTFRATE INC. | 9701 HIGHWAY 50 VAUGHAN ON L4H 2G4 | NNE/263.3 | -1.00 | 194 |
| 49 | GEN | CONSOLIDATED FASTFRATE INC. | 9701 HIGHWAY 50 VAUGHAN ON L4H 2G4 | NNE/263.3 | -1.00 | 195 |
| 49 | GEN | CONSOLIDATED FASTFRATE INC. | 9701 HIGHWAY 50 VAUGHAN ON L4H 2G4 | NNE/263.3 | -1.00 | 196 |
| 49 | GEN | CONSOLIDATED FASTFRATE INC. | 9701 HIGHWAY 50 VAUGHAN ON L4H 2G4 | NNE/263.3 | -1.00 | 196 |
| 49 | GEN | jb express | 9701 highway 50 woodbridge ON L4H2G4 | NNE/263.3 | -1.00 | 198 |
| 49 | GEN | CONSOLIDATED FASTFRATE INC. | 9701 HIGHWAY 50 VAUGHAN ON L4H 2G4 | NNE/263.3 | -1.00 | 198 |
| 49 | GEN | CONSOLIDATED FASTFRATE INC. | 9701 HIGHWAY 50 VAUGHAN ON L4H 2G4 | NNE/263.3 | -1.00 | 199 |

| Map Key | DB | Company/Site Name | Address | Dir/Dist (m) | Elev Diff (m) | Page Number |
|--------------------|-----------|--|---|---------------------|----------------------|---------------------|
| 49 | SPL | Consolidated Fastfrate (Ontario) Holdings Inc. | 9701 Highway 50 CONSOLIDATED FASTFRATE INC. Vaughan ON | NNE/263.3 | -1.00 | 200 |
| 49 | SPL | | 9701 Highway 50 in Woodbridge<UNOFFICIAL> Vaughan ON | NNE/263.3 | -1.00 | 200 |
| 49 | SPL | Consolidated Fastfrate (Ontario) Holdings Inc. | 9701 Highway 50 Vaughan ON | NNE/263.3 | -1.00 | 201 |
| 49 | SPL | Consolidated Fastfrate (Ontario) Holdings Inc. | 9701 Highway 50 CONSOLIDATED FASTFRATE INC. Vaughan ON | NNE/263.3 | -1.00 | 201 |
| 50 | GEN | S.L.H. TRANSPORT INC. | 9601 HWY 50 VAUGHAN ON | ESE/265.1 | -3.54 | 202 |
| 50 | GEN | S.L.H. TRANSPORT INC. | 9601 HWY 50 VAUGHAN ON | ESE/265.1 | -3.54 | 202 |
| 50 | GEN | Train Trailer Rentals Ltd. | 9601 Highway 50 VAUGHAN ON L4H2B9 | ESE/265.1 | -3.54 | 203 |
| 50 | GEN | Train Trailer Rentals Ltd. | 9601 Highway 50 VAUGHAN ON L4H2B9 | ESE/265.1 | -3.54 | 203 |
| 50 | GEN | S.L.H. TRANSPORT INC. | 9601 HWY 50 VAUGHAN ON L4H2B9 | ESE/265.1 | -3.54 | 204 |
| 50 | GEN | S.L.H. TRANSPORT INC. | 9601 HWY 50 VAUGHAN ON L4H2B9 | ESE/265.1 | -3.54 | 204 |
| 50 | GEN | S.L.H. TRANSPORT INC. | 9601 HWY 50 VAUGHAN ON L4H2B9 | ESE/265.1 | -3.54 | 205 |
| 50 | GEN | S.L.H. TRANSPORT INC. | 9601 HWY. 50 VAUGHAN ON L4H 2B9 | ESE/265.1 | -3.54 | 205 |
| 50 | GEN | S.L.H. TRANSPORT INC. | 9601 HWY 50 VAUGHAN ON L4H2B9 | ESE/265.1 | -3.54 | 205 |

| Map Key | DB | Company/Site Name | Address | Dir/Dist (m) | Elev Diff (m) | Page Number |
|--------------------|-----------|--------------------------|--|---------------------|----------------------|---------------------|
| 50 | GEN | S.L.H. TRANSPORT INC. | 9601 HWY 50 VAUGHAN ON | ESE/265.1 | -3.54 | 206 |
| 50 | GEN | S.L.H. TRANSPORT INC. | 9601 HWY 50 VAUGHAN ON | ESE/265.1 | -3.54 | 206 |
| 50 | GEN | S.L.H. TRANSPORT INC. | 9601 HWY 50 VAUGHAN ON L4H2B9 | ESE/265.1 | -3.54 | 207 |
| 50 | GEN | S.L.H. TRANSPORT INC. | 9601 HWY 50 VAUGHAN ON L4H2B9 | ESE/265.1 | -3.54 | 207 |
| 50 | GEN | S.L.H. TRANSPORT INC. | 9601 HWY #50 VAUGHAN ON L4H 2B9 | ESE/265.1 | -3.54 | 207 |
| 51 | WWIS | | BOLTON ON Well ID: 7255951 | N/284.5 | 2.22 | 208 |
| 52 | WWIS | | Brampton ON Well ID: 7249976 | N/287.9 | 2.67 | 211 |
| 53 | FST | SLH TRANSPORT INC | 9601 HWY 50 VAUGHAN ON L4H 2B9 | SE/292.1 | -4.00 | 212 |
| 53 | FSTH | SLH TRANSPORT INC | 9601 HWY 50 VAUGHAN ON | SE/292.1 | -4.00 | 213 |
| 53 | FSTH | SLH TRANSPORT INC | 9601 HWY 50 VAUGHAN ON | SE/292.1 | -4.00 | 213 |
| 53 | INC | | 9601 HWY 50, WOODBRIDGE ON | SE/292.1 | -4.00 | 213 |
| 54 | WWIS | | Brampton ON Well ID: 7249971 | SE/298.0 | -4.00 | 214 |

Executive Summary: Summary By Data Source

ANDR - Anderson's Waste Disposal Sites

A search of the ANDR database, dated 1860s-Present has found that there are 2 ANDR site(s) within approximately 0.30 kilometers of the project property.

| <u>Site</u> | <u>Address</u> | <u>Distance (m)</u> | <u>Map Key</u> |
|-------------------------|-----------------------|----------------------------|-----------------------|
| Coleraine junkyard 1976 | Kleinburg ON L0J 1C0 | 160.5 | 33 |
| Coleraine junkyard 1969 | Kleinburg ON L0J 1C0 | 164.6 | 35 |

CA - Certificates of Approval

A search of the CA database, dated 1985-Oct 30, 2011* has found that there are 1 CA site(s) within approximately 0.30 kilometers of the project property.

| <u>Site</u> | <u>Address</u> | <u>Distance (m)</u> | <u>Map Key</u> |
|---------------------------------------|---|----------------------------|-----------------------|
| TRISTAR COATINGS, DIV. OF TREBOR IND. | 18 CADETTA RD., LOT 8/CON.II BRAMPTON CITY ON L6T 3Z8 | 79.1 | 13 |

EASR - Environmental Activity and Sector Registry

A search of the EASR database, dated Oct 2011-Jun 31, 2019 has found that there are 3 EASR site(s) within approximately 0.30 kilometers of the project property.

| <u>Site</u> | <u>Address</u> | <u>Distance (m)</u> | <u>Map Key</u> |
|-----------------------------------|---------------------------------------|----------------------------|-----------------------|
| THE REGIONAL MUNICIPALITY OF PEEL | ON | 98.0 | 19 |
| 2563570 ONTARIO LTD. | 9701 HIGHWAY 50 WOODBRIDGE ON L4H 2G4 | 263.3 | 49 |
| 2278581 ONTARIO LIMITED | 9701 HIGHWAY 50 WOODBRIDGE ON L4H 2G4 | 263.3 | 49 |

| <u>Site</u> | <u>Address</u> | <u>Distance (m)</u> | <u>Map Key</u> |
|-------------|----------------|---------------------|----------------|
|-------------|----------------|---------------------|----------------|

EBR - Environmental Registry

A search of the EBR database, dated 1994-Jun 30, 2019 has found that there are 1 EBR site(s) within approximately 0.30 kilometers of the project property.

| <u>Site</u> | <u>Address</u> | <u>Distance (m)</u> | <u>Map Key</u> |
|-------------------------------|---|---------------------|--------------------|
| Onsite Ready-Mix (2009) Corp. | 10 Cadetta Road Brampton, Regional Municipality of Peel CITY OF BRAMPTON ON | 225.7 | 43 |

ECA - Environmental Compliance Approval

A search of the ECA database, dated Oct 2011-Jun 30, 2019 has found that there are 5 ECA site(s) within approximately 0.30 kilometers of the project property.

| <u>Site</u> | <u>Address</u> | <u>Distance (m)</u> | <u>Map Key</u> |
|------------------------|---|---------------------|--------------------|
| O@B Corporation Inc. | 4 Cadetta Rd Brampton ON L6A 4C1 | 123.7 | 23 |
| 752054 Ontario Limited | 10 Cadetta Rd Brampton ON M5R 2B1 | 225.7 | 43 |
| Bolton Ready Mix | 10 Cadetta Road Brampton City, Regional Municipality of Peel L6P 0X4 ON | 225.7 | 43 |
| 752054 Ontario Limited | 10 Cadetta Rd Brampton ON L6P 0X4 | 225.7 | 43 |
| Bolton Ready Mix | 10 Cadetta Rd Brampton ON M5R 2B1 | 225.7 | 43 |

EHS - ERIS Historical Searches

A search of the EHS database, dated 1999-Apr 30, 2019 has found that there are 8 EHS site(s) within approximately 0.30 kilometers of the project property.

| <u>Site</u> | <u>Address</u> | <u>Distance (m)</u> | <u>Map Key</u> |
|-------------|--|---------------------|---------------------------|
| | 10192 hwy 50 brampton ON | 18.3 | <u>5</u> |
| | 20 Cadetta Road Brampton ON L6P 0X4 | 87.7 | <u>16</u> |
| | 24 Cadetta Rd Brampton ON L6P0X4 | 111.5 | <u>22</u> |
| | 16 Cadetta Rd Brampton ON L6P 0X4 | 148.4 | <u>28</u> |
| | Hwy 50 Brampton ON | 184.8 | <u>37</u> |
| | Cadetta Road Brampton ON | 188.6 | <u>39</u> |
| | 10410 Coleraine Drive Brampton ON L6P 0V4 | 261.7 | <u>48</u> |
| | 9701 Highway No. 50 Kleinburg ON | 263.3 | <u>49</u> |

EXP - List of TSSA Expired Facilities

A search of the EXP database, dated Feb 28, 2017 has found that there are 2 EXP site(s) within approximately 0.30 kilometers of the project property.

| <u>Site</u> | <u>Address</u> | <u>Distance (m)</u> | <u>Map Key</u> |
|--------------------------------------|-----------------------------------|---------------------|---------------------------|
| PILEN CONSTRUCTION OF CANADA LIMITED | 22 CADETTA RD RR 9 BRAMPTON ON | 69.6 | <u>12</u> |
| PILEN CONSTRUCTION OF CANADA LIMITED | 22 CADETTA RD RR 9 BRAMPTON ON | 69.6 | <u>12</u> |

| <u>Site</u> | <u>Address</u> | <u>Distance (m)</u> | <u>Map Key</u> |
|-------------|----------------|---------------------|----------------|
|-------------|----------------|---------------------|----------------|

FST - Fuel Storage Tank

A search of the FST database, dated Feb 28, 2017 has found that there are 1 FST site(s) within approximately 0.30 kilometers of the project property.

| <u>Site</u> | <u>Address</u> | <u>Distance (m)</u> | <u>Map Key</u> |
|-------------------|-----------------------------------|---------------------|--------------------|
| SLH TRANSPORT INC | 9601 HWY 50 VAUGHAN ON L4H 2B9 | 292.1 | 53 |

FSTH - Fuel Storage Tank - Historic

A search of the FSTH database, dated Pre-Jan 2010* has found that there are 2 FSTH site(s) within approximately 0.30 kilometers of the project property.

| <u>Site</u> | <u>Address</u> | <u>Distance (m)</u> | <u>Map Key</u> |
|-------------------|---------------------------|---------------------|--------------------|
| SLH TRANSPORT INC | 9601 HWY 50 VAUGHAN ON | 292.1 | 53 |
| SLH TRANSPORT INC | 9601 HWY 50 VAUGHAN ON | 292.1 | 53 |

GEN - Ontario Regulation 347 Waste Generators Summary

A search of the GEN database, dated 1986-Mar 31, 2019 has found that there are 109 GEN site(s) within approximately 0.30 kilometers of the project property.

| <u>Site</u> | <u>Address</u> | <u>Distance (m)</u> | <u>Map Key</u> |
|--------------------------------------|--|---------------------|--------------------|
| TOTAL CRANE RENTAL LTD. | 2 CADETTA ROAD BRAMPTON ON L6T 3Z8 | 43.6 | 8 |
| PILEN CONSTRUCTION OF CANADA LIMITED | 22 CADETTA ROAD BRAMPTON ON L6P 0X4 | 69.6 | 12 |
| PILEN CONSTRUCTION OF CANADA LIMITED | 22 CADETTA ROAD BRAMPTON ON L6T 3Z8 | 69.6 | 12 |

| <u>Site</u> | <u>Address</u> | <u>Distance (m)</u> | <u>Map Key</u> |
|--------------------------------------|---|----------------------------|---------------------------|
| PILEN CONSTRUCTION OF CANADA LIMITED | 22 CADETTA ROAD BRAMPTON ON L6T 3Z8 | 69.6 | <u>12</u> |
| PILEN CONSTRUCTION OF CANADA LTD. | RR #9, 22 CADETTA ROAD BRAMPTON ON L6T 3Z8 | 69.6 | <u>12</u> |
| PILEN CONSTRUCTION OF CANADA LIMITED | 22 CADETTA ROAD BRAMPTON ON L6P0X4 | 69.6 | <u>12</u> |
| PILEN CONSTRUCTION OF CANADA LTD. | RR #9, 22 CADETTA ROAD BRAMPTON ON L6T 3Z8 | 69.6 | <u>12</u> |
| PILEN CONSTRUCTION OF CANADA LIMITED | 22 CADETTA ROAD BRAMPTON ON L6P0X4 | 69.6 | <u>12</u> |
| PILEN CONSTRUCTION OF CANADA LIMITED | 22 CADETTA ROAD BRAMPTON ON L6P0X4 | 69.6 | <u>12</u> |
| PILEN CONSTRUCTION OF CANADA LIMITED | 22 CADETTA ROAD BRAMPTON ON | 69.6 | <u>12</u> |
| PILEN CONSTRUCTION OF CANADA LIMITED | 22 CADETTA ROAD BRAMPTON ON L6P 0X4 | 69.6 | <u>12</u> |
| PILEN CONSTRUCTION OF CANADA LIMITED | 22 CADETTA ROAD BRAMPTON ON L6P0X4 | 69.6 | <u>12</u> |
| PILEN CONSTRUCTION OF CANADA LIMITED | 22 CADETTA ROAD BRAMPTON ON L6P 0X4 | 69.6 | <u>12</u> |
| PILEN CONSTRUCTION OF CANADA LIMITED | 22 CADETTA ROAD BRAMPTON ON L6P0X4 | 69.6 | <u>12</u> |

| Site | Address | Distance (m) | Map Key |
|---------------------------|--|---------------------|--------------------|
| TRISTAR COATINGS LTD | 18 Cadetta Road BRAMPTON ON L6P 0X4 | 79.1 | 13 |
| TRISTAR COATINGS LTD | TRISTAR COATINGS LTD 18 CADETTA ROAD, R.R. #9 BRAMPTON ON L6P 0X4 | 79.1 | 13 |
| TRISTAR COATINGS LTD | 18 Cadetta Road BRAMPTON ON L6P 0X4 | 79.1 | 13 |
| TRISTAR COATINGS LTD | 18 CADETTA ROAD BRAMPTON ON L6T 3Z8 | 79.1 | 13 |
| TRISTAR COATINGS DIVISION | 18 CADETTA ROAD BRAMPTON ON L6T 3Z8 | 79.1 | 13 |
| TRISTAR COATINGS LTD | TRISTAR COATINGS LTD 18 CADETTA ROAD, R.R. #9 BRAMPTON ON L6P 0X4 | 79.1 | 13 |
| TRISTAR COATINGS LTD | TRISTAR COATINGS LTD 18 CADETTA ROAD, BRAMPTON ON L6P 0X4 | 79.1 | 13 |
| TRISTAR COATINGS LTD | TRISTAR COATINGS LTD 18 CADETTA ROAD, BRAMPTON ON L6P 0X4 | 79.1 | 13 |
| TRISTAR COATINGS LTD | TRISTAR COATINGS LTD 18 CADETTA ROAD, BRAMPTON ON L6P 0X4 | 79.1 | 13 |
| TRISTAR COATINGS LTD | TRISTAR COATINGS LTD 18 CADETTA ROAD, BRAMPTON ON | 79.1 | 13 |
| TRISTAR COATINGS LTD | TRISTAR COATINGS LTD 18 CADETTA ROAD, R.R. #9 BRAMPTON ON L6P 0X4 | 79.1 | 13 |
| TRISTAR COATINGS LTD | 18 Cadetta Road BRAMPTON ON L6P 0X4 | 79.1 | 13 |

| <u>Site</u> | <u>Address</u> | <u>Distance (m)</u> | <u>Map Key</u> |
|----------------------------------|--|----------------------------|---------------------------|
| TRISTAR COATINGS | DIVISION OF TREBOR 18 CADETTA RD. R.R.#9 BRAMPTON ON L6T 3Z8 | 79.1 | <u>13</u> |
| TRISTAR COATINGS LTD | 18 Cadetta Road BRAMPTON ON L6P 0X4 | 79.1 | <u>13</u> |
| TRISTAR COATINGS DIVISION 38-534 | 18 CADETTA ROAD BRAMPTON ON L6T 3Z8 | 79.1 | <u>13</u> |
| Roma Building Restoration Ltd | 20 Cadetta Rd Unit # 7 Brampton ON L6P 0X4 | 86.4 | <u>15</u> |
| WYNDALE PAVING CO. LTD. | 24 Cadetta Rd Brampton ON L6P 0X4 | 104.4 | <u>20</u> |
| WYNDALE PAVING CO. LTD. | 24 Cadetta Rd Brampton ON L6P 0X4 | 104.4 | <u>20</u> |
| WYNDALE PAVING CO. LTD. | 24 Cadetta Rd Brampton ON L6P 0X4 | 104.4 | <u>20</u> |
| WYNDALE PAVING CO. LTD. | 24 Cadetta Rd Brampton ON L6P 0X4 | 104.4 | <u>20</u> |
| 1389147 ONTARIO INC | 16 CADETTA ROAD BRAMPTON ON L6P 0X4 | 148.4 | <u>28</u> |
| 1389147 ONTARIO INC | 16 CADETTA ROAD BRAMPTON ON L6P 0X4 | 148.4 | <u>28</u> |
| 1389147 ONTARIO INC | 16 CADETTA ROAD BRAMPTON ON L6P 0X4 | 148.4 | <u>28</u> |

| Site | Address | Distance (m) | Map Key |
|---|--|---------------------|--------------------|
| 1389147 ONTARIO INC | 16 CADETTA ROAD BRAMPTON ON | 148.4 | 28 |
| AVENUE STRUCTURES CORPORATION | 16 CADETTA ROAD BRAMPTON ON L6T 3Z8 | 148.4 | 28 |
| 1389147 ONTARIO INC | 16 CADETTA ROAD BRAMPTON ON L6P 0X4 | 148.4 | 28 |
| AVENUE STRUC(OUT OF BUSINESS) | 16 CADETTA ROAD BRAMPTON ON L6T 3Z8 | 148.4 | 28 |
| Avenue Building Corporation | 16 CADETTA ROAD BRAMPTON ON L6T 3Z8 | 148.4 | 28 |
| CANFORM STRUCTURES LIMITED | 16 CADETTA ROAD BRAMPTON ON L6T 3Z8 | 148.4 | 28 |
| AVENUE STRUCTURES CORPORATION 03-217 | 16 CADETTA ROAD BRAMPTON ON L6T 3Z8 | 148.4 | 28 |
| 1389147 ONTARIO INC | 16 CADETTA ROAD BRAMPTON ON L6P 0X4 | 148.4 | 28 |
| AVENUE STRUCTURES CORPORATION | 16 CADETTA ROAD BRAMPTON ON L6T 3Z8 | 148.4 | 28 |
| 1389147 ONTARIO INC | 16 CADETTA ROAD BRAMPTON ON L6P0X4 | 148.4 | 28 |
| 1389147 ONTARIO INC | 16 CADETTA ROAD BRAMPTON ON L6P0X4 | 148.4 | 28 |
| 1389147 ONTARIO INC | 16 CADETTA ROAD BRAMPTON ON L6P0X4 | 148.4 | 28 |

| <u>Site</u> | <u>Address</u> | <u>Distance (m)</u> | <u>Map Key</u> |
|---------------------------------|---|----------------------------|---------------------------|
| 1389147 ONTARIO INC | 16 CADETTA ROAD BRAMPTON ON L6P0X4 | 148.4 | <u>28</u> |
| 1389147 ONTARIO INC | 16 CADETTA ROAD BRAMPTON ON L6P0X4 | 148.4 | <u>28</u> |
| JOE GALLO BROS. PAVING CO. LTD. | 6 CADETTA ROAD BRAMPTON ON L6T 3Z8 | 187.5 | <u>38</u> |
| Forest Contractors Ltd | 8 Cadetta Road Brampton ON L6P 0X4 | 200.9 | <u>42</u> |
| Forest Contractors Ltd | 8 Cadetta Road Brampton ON L6P 0X4 | 200.9 | <u>42</u> |
| Forest Contractors Ltd | 8 Cadetta Road Brampton ON L6P 0X4 | 200.9 | <u>42</u> |
| Forest Contractors Ltd | 8 Cadetta Road Brampton ON L6P 0X4 | 200.9 | <u>42</u> |
| Forest Contractors Ltd | 8 Cadetta Road Brampton ON L6P 0X4 | 200.9 | <u>42</u> |
| Forest Contractors Ltd | 8 Cadetta Road Brampton ON | 200.9 | <u>42</u> |
| Forest Contractors Ltd | 8 Cadetta Road Brampton ON | 200.9 | <u>42</u> |
| ALTA CRANES LIMITED 02-216 | 10 CADETTA ROAD, R.R. #9 BRAMPTON ON L6T 3Z8 | 225.7 | <u>43</u> |

| Site | Address | Distance (m) | Map Key |
|-------------------------|---|---------------------|--------------------|
| Magcrete Logistics | 10 Cadetta Road Brampton ON L6P 0X4 | 225.7 | 43 |
| Magcrete Logistics | 10 Cadetta Road Brampton ON L6P 0X4 | 225.7 | 43 |
| ADVANCED FENCE AND WIRE | 10 CADETTA ROAD BRAMPTON ON L6T 3Z8 | 225.7 | 43 |
| Magcrete Logistics | 10 Cadetta Road Brampton ON L6P 0X4 | 225.7 | 43 |
| Magcrete Logistics | 10 Cadetta Road Brampton ON L6P 0X4 | 225.7 | 43 |
| 1105976 ONTARIO LIMITED | 10 CADETTA ROAD BRAMPTON ON L6T 3Z8 | 225.7 | 43 |
| Onsite Ready-Mix Inc | 10 Cadetta Road Brampton ON L6P 0X4 | 225.7 | 43 |
| ALTA CRANES LIMITED | 10 CADETTA ROAD, R.R. #9 BRAMPTON ON L6T 3Z8 | 225.7 | 43 |
| Onsite Ready-Mix Inc | 10 Cadetta Road Brampton ON L6P 0X4 | 225.7 | 43 |
| ALTA CRANES LIMITED | 10 CADETTA ROAD, R.R. #9 BRAMPTON ON L6T 3Z8 | 225.7 | 43 |
| Onsite Ready-Mix Inc | 10 Cadetta Road Brampton ON L6P 0X4 | 225.7 | 43 |
| GREENSTAR CONSTRUCTION | 12 CADETTA RD UNIT 8 BRAMPTON ON L6P0X4 | 227.0 | 44 |

| <u>Site</u> | <u>Address</u> | <u>Distance (m)</u> | <u>Map Key</u> |
|------------------------------------|---|----------------------------|---------------------------|
| Terrapave Holdings Inc | 12 Cadetta Rd Unit 1 Brampton ON L6P 0X4 | 227.0 | <u>44</u> |
| Terrapave Holdings Inc | 12 Cadetta Rd Unit 1 Brampton ON L6P 0X4 | 227.0 | <u>44</u> |
| GREENSTAR CONSTRUCTION | 12 CADETTA RD UNIT 8 BRAMPTON ON L6P0X4 | 227.0 | <u>44</u> |
| GREENSTAR CONSTRUCTION | 12 CADETTA RD UNIT 8 BRAMPTON ON L6P0X4 | 227.0 | <u>44</u> |
| GREENSTAR CONSTRUCTION | 12 CADETTA RD UNIT 8 BRAMPTON ON L6P0X4 | 227.0 | <u>44</u> |
| TIME AND PRECISION CO. LTD. | 14 CADETTA ROAD BRAMPTON ON L6P 0X4 | 235.0 | <u>46</u> |
| TMT Freight Systems | 14 Caldetta Road Brampton ON L6P 0X4 | 235.0 | <u>46</u> |
| TIME AND PRECISION CO. LTD. 38-707 | 14 CADETTA ROAD BRAMPTON ON L6T 3Z8 | 235.0 | <u>46</u> |
| jb express | 9701 highway 50 woodbridge ON L4H2G4 | 263.3 | <u>49</u> |
| jb express | 9701 highway 50 woodbridge ON L4H2G4 | 263.3 | <u>49</u> |
| jb express | 9701 highway 50 woodbridge ON L4H2G4 | 263.3 | <u>49</u> |

| Site | Address | Distance (m) | Map Key |
|-----------------------------|---|---------------------|--------------------|
| CONSOLIDATED FASTFRATE INC. | 9701 HIGHWAY 50 VAUGHAN ON L4H 2G4 | 263.3 | 49 |
| CONSOLIDATED FASTFRATE INC. | 9701 HIGHWAY 50 VAUGHAN ON | 263.3 | 49 |
| CONSOLIDATED FASTFRATE INC. | 9701 HIGHWAY 50 VAUGHAN ON L4H 2G4 | 263.3 | 49 |
| CONSOLIDATED FASTFRATE INC. | 9701 HIGHWAY 50 VAUGHAN ON L4H 2G4 | 263.3 | 49 |
| CONSOLIDATED FASTFRATE INC. | 9701 HIGHWAY 50 VAUGHAN ON L4H 2G4 | 263.3 | 49 |
| CONSOLIDATED FASTFRATE INC. | 9701 HIGHWAY 50 VAUGHAN ON L4H 2G4 | 263.3 | 49 |
| CONSOLIDATED FASTFRATE INC. | 9701 HIGHWAY 50 VAUGHAN ON L4H 2G4 | 263.3 | 49 |
| CONSOLIDATED FASTFRATE INC. | 9701 HIGHWAY 50 VAUGHAN ON L4H 2G4 | 263.3 | 49 |
| CONSOLIDATED FASTFRATE INC. | 9701 HIGHWAY 50 VAUGHAN ON L4H 2G4 | 263.3 | 49 |
| CONSOLIDATED FASTFRATE INC. | 9701 HIGHWAY 50 VAUGHAN ON L4H 2G4 | 263.3 | 49 |
| CONSOLIDATED FASTFRATE INC. | 9701 HIGHWAY 50 VAUGHAN ON L4H 2G4 | 263.3 | 49 |
| CONSOLIDATED FASTFRATE INC. | 9701 HIGHWAY 50 VAUGHAN ON L4H 2G4 | 263.3 | 49 |
| jb express | 9701 highway 50 woodbridge ON L4H2G4 | 263.3 | 49 |
| CONSOLIDATED FASTFRATE INC. | 9701 HIGHWAY 50 VAUGHAN ON L4H 2G4 | 263.3 | 49 |
| CONSOLIDATED FASTFRATE INC. | 9701 HIGHWAY 50 VAUGHAN ON L4H 2G4 | 263.3 | 49 |

| <u>Site</u> | <u>Address</u> | <u>Distance (m)</u> | <u>Map Key</u> |
|----------------------------|--------------------------------------|----------------------------|---------------------------|
| S.L.H. TRANSPORT INC. | 9601 HWY 50 VAUGHAN ON | 265.1 | <u>50</u> |
| S.L.H. TRANSPORT INC. | 9601 HWY 50 VAUGHAN ON | 265.1 | <u>50</u> |
| Train Trailer Rentals Ltd. | 9601 Highway 50 VAUGHAN ON L4H2B9 | 265.1 | <u>50</u> |
| Train Trailer Rentals Ltd. | 9601 Highway 50 VAUGHAN ON L4H2B9 | 265.1 | <u>50</u> |
| S.L.H. TRANSPORT INC. | 9601 HWY 50 VAUGHAN ON L4H2B9 | 265.1 | <u>50</u> |
| S.L.H. TRANSPORT INC. | 9601 HWY 50 VAUGHAN ON L4H2B9 | 265.1 | <u>50</u> |
| S.L.H. TRANSPORT INC. | 9601 HWY 50 VAUGHAN ON L4H2B9 | 265.1 | <u>50</u> |
| S.L.H. TRANSPORT INC. | 9601 HWY. 50 VAUGHAN ON L4H 2B9 | 265.1 | <u>50</u> |
| S.L.H. TRANSPORT INC. | 9601 HWY 50 VAUGHAN ON L4H2B9 | 265.1 | <u>50</u> |
| S.L.H. TRANSPORT INC. | 9601 HWY 50 VAUGHAN ON | 265.1 | <u>50</u> |
| S.L.H. TRANSPORT INC. | 9601 HWY 50 VAUGHAN ON | 265.1 | <u>50</u> |

| <u>Site</u> | <u>Address</u> | <u>Distance (m)</u> | <u>Map Key</u> |
|-----------------------|------------------------------------|---------------------|--------------------|
| S.L.H. TRANSPORT INC. | 9601 HWY 50 VAUGHAN ON L4H2B9 | 265.1 | 50 |
| S.L.H. TRANSPORT INC. | 9601 HWY 50 VAUGHAN ON L4H2B9 | 265.1 | 50 |
| S.L.H. TRANSPORT INC. | 9601 HWY #50 VAUGHAN ON L4H 2B9 | 265.1 | 50 |

HINC - TSSA Historic Incidents

A search of the HINC database, dated 2006-June 2009* has found that there are 2 HINC site(s) within approximately 0.30 kilometers of the project property.

| <u>Site</u> | <u>Address</u> | <u>Distance (m)</u> | <u>Map Key</u> |
|-------------|--|---------------------|--------------------|
| | 24 CADETTA ROAD BRAMPTON ON L6P 0X4 | 104.4 | 20 |
| | 14 CADETTA ROAD BRAMPTON ON L6P 0X4 | 248.0 | 47 |

INC - TSSA Incidents

A search of the INC database, dated Feb 28, 2017 has found that there are 2 INC site(s) within approximately 0.30 kilometers of the project property.

| <u>Site</u> | <u>Address</u> | <u>Distance (m)</u> | <u>Map Key</u> |
|-------------|-------------------------------|---------------------|--------------------|
| | 2 CADETTA RD, BRAMPTON ON | 43.6 | 8 |
| | 9601 HWY 50, WOODBRIDGE ON | 292.1 | 53 |

NPRI - National Pollutant Release Inventory

A search of the NPRI database, dated 1993-May 2017 has found that there are 22 NPRI site(s) within approximately 0.30 kilometers of the project property.

| Site | Address | Distance (m) | Map Key |
|--------------------------------------|--|---------------------|---------------------------|
| TRISTAR COATINGS LTD. | 18 CADETTA ROAD NOT AVAILABLE BRAMPTON ON L6P0X4 | 79.1 | <u>13</u> |
| TRISTAR COATINGS LTD | 18 CADETTA ROAD NOT AVAILABLE BRAMPTON ON L6P0X4 | 79.1 | <u>13</u> |
| TRISTAR COATINGS LTD. | 18 CADETTA ROAD NOT AVAILABLE BRAMPTON ON L6P0X4 | 79.1 | <u>13</u> |
| TRISTAR COATINGS LTD. | 18 CADETTA ROAD NOT AVAILABLE BRAMPTON ON L6T 3Z8 | 79.1 | <u>13</u> |
| TREBOR IND. TRISTAR COATINGS DIV. | 18 CADETTA ROAD NOT AVAILABLE BRAMPTON ON L6P0X4 | 79.1 | <u>13</u> |
| TREBOR IND. TRISTAR COATINGS DIV. | 18 CADETTA ROAD NOT AVAILABLE BRAMPTON ON L6P0X4 | 79.1 | <u>13</u> |
| TRISTAR COATINGS LTD | 18 CADETTA ROAD NOT AVAILABLE BRAMPTON ON L6T 3Z8 | 79.1 | <u>13</u> |
| TRISTAR COATINGS LTD. | 18 CADETTA ROAD NOT AVAILABLE BRAMPTON ON L6P0X4 | 79.1 | <u>13</u> |
| TREBOR IND. TRISTAR COATINGS DIV. | 18 CADETTA ROAD NOT AVAILABLE BRAMPTON ON L6T 3Z8 | 79.1 | <u>13</u> |
| TREBOR IND. TRISTAR COATINGS DIV. | 18 CADETTA ROAD NOT AVAILABLE BRAMPTON ON L6T 3Z8 | 79.1 | <u>13</u> |
| TREBOR IND. TRISTAR COATINGS DIV. | 18 CADETTA ROAD NOT AVAILABLE BRAMPTON ON L6P0X4 | 79.1 | <u>13</u> |

| Site | Address | Distance (m) | Map Key |
|-----------------------|--|---------------------|---------------------------|
| TRISTAR COATINGS LTD | 18 CADETTA ROAD NOT AVAILABLE BRAMPTON ON L6P0X4 | 79.1 | <u>13</u> |
| TRISTAR COATINGS LTD | 18 CADETTA ROAD NOT AVAILABLE BRAMPTON ON L6P0X4 | 79.1 | <u>13</u> |
| TRISTAR COATINGS LTD. | 18 CADETTA ROAD NOT AVAILABLE BRAMPTON ON L6T 3Z8 | 79.1 | <u>13</u> |
| TRISTAR COATINGS LTD. | 18 CADETTA ROAD NOT AVAILABLE BRAMPTON ON L6P0X4 | 79.1 | <u>13</u> |
| TRISTAR COATINGS LTD | 18 CADETTA ROAD NOT AVAILABLE BRAMPTON ON L6P0X4 | 79.1 | <u>13</u> |
| TRISTAR COATINGS LTD | 18 CADETTA ROAD NOT AVAILABLE BRAMPTON ON L6P0X4 | 79.1 | <u>13</u> |
| TRISTAR COATINGS LTD | 18 CADETTA ROAD NOT AVAILABLE BRAMPTON ON L6P0X4 | 79.1 | <u>13</u> |
| TRISTAR COATINGS LTD. | 18 CADETTA ROAD NOT AVAILABLE BRAMPTON ON L6P0X4 | 79.1 | <u>13</u> |
| Tristar Coatings Ltd. | 18 CADETTA ROAD NOT AVAILABLE BRAMPTON ON L6P0X4 | 79.1 | <u>13</u> |
| TREBOR INDUSTRIES | 18 CADETTA ROAD NOT AVAILABLE BRAMPTON ON L6P0X4 | 79.1 | <u>13</u> |
| TRISTAR COATINGS LTD | 18 CADETTA ROAD NOT AVAILABLE BRAMPTON ON L6P0X4 | 79.1 | <u>13</u> |

PINC - TSSA Pipeline Incidents

A search of the PINC database, dated Feb 28, 2017 has found that there are 1 PINC site(s) within approximately 0.30 kilometers of the project property.

| <u>Site</u> | <u>Address</u> | <u>Distance (m)</u> | <u>Map Key</u> |
|--------------------|--------------------------------|----------------------------|---------------------------|
| | 8 Cadetta Road, Brampton ON | 200.9 | <u>42</u> |

PRT - Private and Retail Fuel Storage Tanks

A search of the PRT database, dated 1989-1996* has found that there are 1 PRT site(s) within approximately 0.30 kilometers of the project property.

| <u>Site</u> | <u>Address</u> | <u>Distance (m)</u> | <u>Map Key</u> |
|---------------------------|--|----------------------------|---------------------------|
| PILEN CONST OF CANADA INC | 22 CADETTA RD RR 9 BRAMPTON ON L6T3Z8 | 69.6 | <u>12</u> |

SCT - Scott's Manufacturing Directory

A search of the SCT database, dated 1992-Mar 2011* has found that there are 12 SCT site(s) within approximately 0.30 kilometers of the project property.

| <u>Site</u> | <u>Address</u> | <u>Distance (m)</u> | <u>Map Key</u> |
|--------------------------------------|--------------------------------------|----------------------------|---------------------------|
| Tristar Coatings Ltd. | 18 Cadetta Rd Brampton ON L6P 0X4 | 79.1 | <u>13</u> |
| Quality Fabricating | 20 Cadetta Rd Brampton ON L6T 3Z8 | 87.7 | <u>16</u> |
| Quality Fabricating & Machining Ltd. | 20 Cadetta Rd Brampton ON L6T 3Z8 | 87.7 | <u>16</u> |
| QFM Ltd. | 20 Cadetta Rd Brampton ON L6P 0X4 | 87.7 | <u>16</u> |
| Roma Fence Ltd. | 24 Cadetta Rd Brampton ON L6P 0X4 | 104.4 | <u>20</u> |

| <u>Site</u> | <u>Address</u> | <u>Distance (m)</u> | <u>Map Key</u> |
|----------------------------|--|----------------------------|---------------------------|
| Acculink Fence And Wire | 10 Cadetta Rd Brampton ON L6T 3Z8 | 225.7 | <u>43</u> |
| Acculink Fence & Wire Inc. | 10 Cadetta Rd Brampton ON L6P 0X4 | 225.7 | <u>43</u> |
| Dura Fence Inc. | 10 Cadetta Rd Brampton ON L6T 3Z8 | 225.7 | <u>43</u> |
| YORK FENCE COMPANY LTD. | 10 Cadetta Rd Brampton ON L6T 3Z8 | 225.7 | <u>43</u> |
| Cedar Mills Welding | 12 Cadetta Rd Suite 4 Brampton ON L6P 0X4 | 229.4 | <u>45</u> |
| D & D Tool & Machine Co. | 14 Cadetta Rd Brampton ON L6P 0X4 | 248.0 | <u>47</u> |
| TIME & PRECISION CO. LTD. | 14 CADETTA RD RR 9 BRAMPTON ON L6T 3Z8 | 248.0 | <u>47</u> |

SPL - Ontario Spills

A search of the SPL database, dated 1988-Feb 2019 has found that there are 7 SPL site(s) within approximately 0.30 kilometers of the project property.

| <u>Site</u> | <u>Address</u> | <u>Distance (m)</u> | <u>Map Key</u> |
|--------------------------------|--|----------------------------|---------------------------|
| | 2 Cadetta Rd Brampton ON | 43.6 | <u>8</u> |
| Purolator Courier Ltd. | 18 Cadetta Rd Brampton ON L6P 0X4 | 79.1 | <u>13</u> |
| Enbridge Gas Distribution Inc. | 8 Cadetta Road <UNOFFICIAL> Brampton ON L6P 0X4 | 200.9 | <u>42</u> |

| <u>Site</u> | <u>Address</u> | <u>Distance (m)</u> | <u>Map Key</u> |
|---|---|---------------------|--------------------|
| Consolidated Fastrate (Ontario) Holdings Inc. | 9701 Highway 50 CONSOLIDATED FASTFRATE INC. Vaughan ON | 263.3 | 49 |
| Consolidated Fastrate (Ontario) Holdings Inc. | 9701 Highway 50 CONSOLIDATED FASTFRATE INC. Vaughan ON | 263.3 | 49 |
| | 9701 Highway 50 in Woodbridge<UNOFFICIAL> Vaughan ON | 263.3 | 49 |
| Consolidated Fastrate (Ontario) Holdings Inc. | 9701 Highway 50 Vaughan ON | 263.3 | 49 |

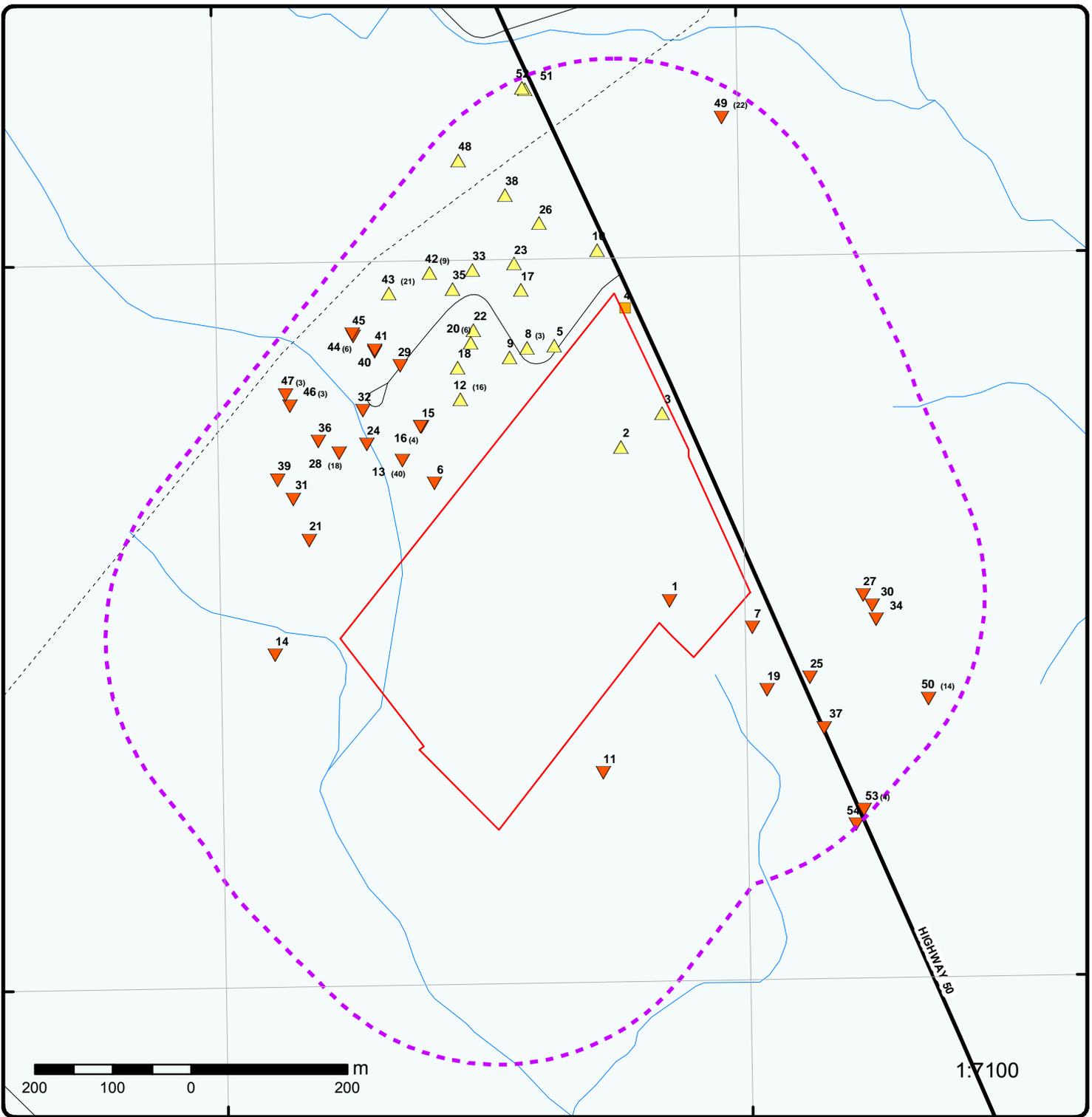
WWIS - Water Well Information System

A search of the WWIS database, dated Feb 28, 2019 has found that there are 28 WWIS site(s) within approximately 0.30 kilometers of the project property.

| <u>Site</u> | <u>Address</u> | <u>Distance (m)</u> | <u>Map Key</u> |
|-------------|--|---------------------|-------------------|
| | lot 11 con 11 ON <i>Well ID:</i> 4905218 | 0.0 | 1 |
| | ON <i>Well ID:</i> 7279718 | 0.0 | 2 |
| | Brampton ON <i>Well ID:</i> 7249974 | 0.0 | 3 |
| | Brampton ON <i>Well ID:</i> 7282340 | 5.3 | 4 |
| | lot 12 con 11 ON <i>Well ID:</i> 4905247 | 28.6 | 6 |

| <u>Site</u> | <u>Address</u> | <u>Distance (m)</u> | <u>Map Key</u> |
|-------------|--|---------------------|---------------------------|
| | Brampton ON <i>Well ID: 7249973</i> | 31.2 | <u>7</u> |
| | lot 12 con 11 ON <i>Well ID: 4906179</i> | 53.2 | <u>9</u> |
| | Brampton ON <i>Well ID: 7249975</i> | 58.9 | <u>10</u> |
| | lot 11 con 11 ON <i>Well ID: 4902862</i> | 60.6 | <u>11</u> |
| | lot 12 con 11 ON <i>Well ID: 4908701</i> | 86.0 | <u>14</u> |
| | BRAMPTON ON <i>Well ID: 7241945</i> | 95.3 | <u>17</u> |
| | lot 12 con 11 ON <i>Well ID: 4906478</i> | 97.7 | <u>18</u> |
| | ON <i>Well ID: 7304020</i> | 109.3 | <u>21</u> |
| | lot 12 con 11 ON <i>Well ID: 4905812</i> | 127.9 | <u>24</u> |
| | Brampton ON <i>Well ID: 7249972</i> | 129.0 | <u>25</u> |
| | BRAMPTON ON <i>Well ID: 7241946</i> | 131.1 | <u>26</u> |
| | KLEINBURG ON | 144.7 | <u>27</u> |

| <u>Site</u> | <u>Address</u> | <u>Distance (m)</u> | <u>Map Key</u> |
|-------------|-------------------------|---------------------|---------------------------|
| | <i>Well ID:</i> 7302203 | | |
| | lot 12 con 11 ON | 156.2 | <u>29</u> |
| | <i>Well ID:</i> 4905769 | | |
| | KLEINBURG ON | 156.5 | <u>30</u> |
| | <i>Well ID:</i> 7302202 | | |
| | lot 12 con 11 ON | 157.8 | <u>31</u> |
| | <i>Well ID:</i> 7225368 | | |
| | Brampton ON | 158.2 | <u>32</u> |
| | <i>Well ID:</i> 7178624 | | |
| | KLEINBURG ON | 164.3 | <u>34</u> |
| | <i>Well ID:</i> 7302201 | | |
| | lot 12 con 11 ON | 178.4 | <u>36</u> |
| | <i>Well ID:</i> 4905768 | | |
| | lot 12 con 11 ON | 193.2 | <u>40</u> |
| | <i>Well ID:</i> 4905813 | | |
| | Brampton ON | 194.2 | <u>41</u> |
| | <i>Well ID:</i> 7166972 | | |
| | BOLTON ON | 284.5 | <u>51</u> |
| | <i>Well ID:</i> 7255951 | | |
| | Brampton ON | 287.9 | <u>52</u> |
| | <i>Well ID:</i> 7249976 | | |
| | Brampton ON | 298.0 | <u>54</u> |
| | <i>Well ID:</i> 7249971 | | |



Map : 0.3 Kilometer Radius

Order No: 20190508200
Address: 10192 Highway 50, Brampton, ON, L6P 0G4



| | | |
|----------------------|-----------------------------------|--------------------------------|
| Expressway | Industrial and Resource - Regions | National Park |
| Principal Highway | Main Line | Provincial or Territorial Park |
| Secondary Highway | Sidetrack | Other Park |
| Major Road | Transit Line | Golf Course or Driving Range |
| Local road | Abandoned Line | Park or Sports Field |
| Trail | | Other Recreation Area |
| Proposed Road | | |
| Ferry Route/Ice Road | | |



Aerial (2018)

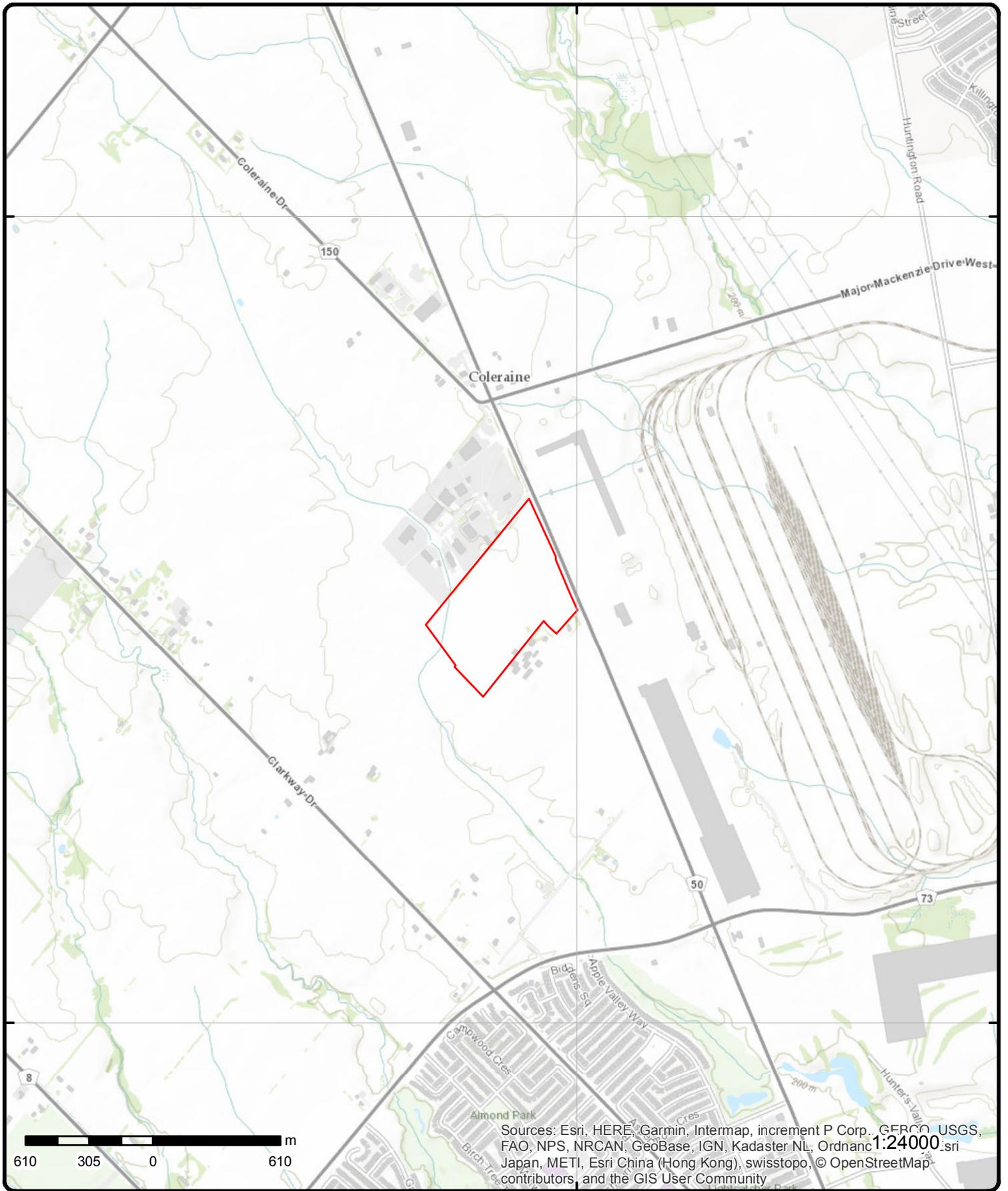
Address: 10192 Highway 50, Brampton, ON, L6P 0G4

Source: ESRI World Imagery

Order No: 20190508200



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Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

Topographic Map

Address: 10192 Highway 50, Brampton, ON, L6P 0G4

Source: ESRI World Topographic Map

Order No: 20190508200



© ERIS Information Limited Partnership

Detail Report

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|----------|-------------------|----------------------------|------------------|---------------------|------|
| <u>1</u> | 1 of 1 | -/0.0 | 208.1 / -0.75 | lot 11 con 11 ON | WWIS |

| | |
|---|---|
| <p>Well ID: 4905218</p> <p>Construction Date:</p> <p>Primary Water Use: Domestic</p> <p>Sec. Water Use: 0</p> <p>Final Well Status: Water Supply</p> <p>Water Type:</p> <p>Casing Material:</p> <p>Audit No:</p> <p>Tag:</p> <p>Construction Method:</p> <p>Elevation (m):</p> <p>Elevation Reliability:</p> <p>Depth to Bedrock:</p> <p>Well Depth:</p> <p>Overburden/Bedrock:</p> <p>Pump Rate:</p> <p>Static Water Level:</p> <p>Flowing (Y/N):</p> <p>Flow Rate:</p> <p>Clear/Cloudy:</p> | <p>Data Entry Status:</p> <p>Data Src: 1</p> <p>Date Received: 11/16/1977</p> <p>Selected Flag: Yes</p> <p>Abandonment Rec:</p> <p>Contractor: 5206</p> <p>Form Version: 1</p> <p>Owner:</p> <p>Street Name:</p> <p>County: PEEL</p> <p>Municipality: BRAMPTON CITY (TORONTO GORE)</p> <p>Site Info:</p> <p>Lot: 011</p> <p>Concession: 11</p> <p>Concession Name: CON</p> <p>Easting NAD83:</p> <p>Northing NAD83:</p> <p>Zone:</p> <p>UTM Reliability:</p> |
|---|---|

Bore Hole Information

| | |
|---|---|
| <p>Bore Hole ID: 10319973</p> <p>DP2BR: 76</p> <p>Spatial Status:</p> <p>Code OB: r</p> <p>Code OB Desc: Bedrock</p> <p>Open Hole:</p> <p>Cluster Kind:</p> <p>Date Completed: 10/4/1977</p> <p>Remarks:</p> <p>Elevrc Desc:</p> <p>Location Source Date:</p> <p>Improvement Location Source:</p> <p>Improvement Location Method:</p> <p>Source Revision Comment:</p> <p>Supplier Comment:</p> | <p>Elevation: 209.900741</p> <p>Elevrc:</p> <p>Zone: 17</p> <p>East83: 606464.6</p> <p>North83: 4851923</p> <p>Org CS:</p> <p>UTMRC: 5</p> <p>UTMRC Desc: margin of error : 100 m - 300 m</p> <p>Location Method: p5</p> |
|---|---|

Overburden and Bedrock Materials Interval

Formation ID: 932049098

Layer: 3

Color: 6

General Color: BROWN

Mat1: 05

Most Common Material: CLAY

Mat2:

Other Materials:

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|---|--------------------------|------------------------------------|--------------------------|-------------|-----------|
| Mat3: | | | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | | 15 | | | |
| Formation End Depth: | | 32 | | | |
| Formation End Depth UOM: | | ft | | | |
| | | | | | |
| <u>Overburden and Bedrock Materials Interval</u> | | | | | |
| Formation ID: | | 932049097 | | | |
| Layer: | | 2 | | | |
| Color: | | | | | |
| General Color: | | | | | |
| Mat1: | | 05 | | | |
| Most Common Material: | | CLAY | | | |
| Mat2: | | 28 | | | |
| Other Materials: | | SAND | | | |
| Mat3: | | | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | | 2 | | | |
| Formation End Depth: | | 15 | | | |
| Formation End Depth UOM: | | ft | | | |
| | | | | | |
| <u>Overburden and Bedrock Materials Interval</u> | | | | | |
| Formation ID: | | 932049100 | | | |
| Layer: | | 5 | | | |
| Color: | | | | | |
| General Color: | | | | | |
| Mat1: | | 17 | | | |
| Most Common Material: | | SHALE | | | |
| Mat2: | | | | | |
| Other Materials: | | | | | |
| Mat3: | | | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | | 76 | | | |
| Formation End Depth: | | 95 | | | |
| Formation End Depth UOM: | | ft | | | |
| | | | | | |
| <u>Overburden and Bedrock Materials Interval</u> | | | | | |
| Formation ID: | | 932049099 | | | |
| Layer: | | 4 | | | |
| Color: | | | | | |
| General Color: | | | | | |
| Mat1: | | 14 | | | |
| Most Common Material: | | HARDPAN | | | |
| Mat2: | | | | | |
| Other Materials: | | | | | |
| Mat3: | | | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | | 32 | | | |
| Formation End Depth: | | 76 | | | |
| Formation End Depth UOM: | | ft | | | |
| | | | | | |
| <u>Overburden and Bedrock Materials Interval</u> | | | | | |
| Formation ID: | | 932049096 | | | |
| Layer: | | 1 | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|---|--------------------------|------------------------------------|--------------------------|-------------|-----------|
| Color: | | 6 | | | |
| General Color: | | BROWN | | | |
| Mat1: | | 02 | | | |
| Most Common Material: | | TOPSOIL | | | |
| Mat2: | | | | | |
| Other Materials: | | | | | |
| Mat3: | | | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | | 0 | | | |
| Formation End Depth: | | 2 | | | |
| Formation End Depth UOM: | | ft | | | |
| <u>Method of Construction & Well Use</u> | | | | | |
| Method Construction ID: | | | | | |
| Method Construction Code: | | 1 | | | |
| Method Construction: | | Cable Tool | | | |
| Other Method Construction: | | | | | |
| <u>Pipe Information</u> | | | | | |
| Pipe ID: | | 10868543 | | | |
| Casing No: | | 1 | | | |
| Comment: | | | | | |
| Alt Name: | | | | | |
| <u>Construction Record - Casing</u> | | | | | |
| Casing ID: | | 930528020 | | | |
| Layer: | | 1 | | | |
| Material: | | 1 | | | |
| Open Hole or Material: | | STEEL | | | |
| Depth From: | | | | | |
| Depth To: | | 78 | | | |
| Casing Diameter: | | 6 | | | |
| Casing Diameter UOM: | | inch | | | |
| Casing Depth UOM: | | ft | | | |
| <u>Results of Well Yield Testing</u> | | | | | |
| Pump Test ID: | | 994905218 | | | |
| Pump Set At: | | | | | |
| Static Level: | | 8 | | | |
| Final Level After Pumping: | | 85 | | | |
| Recommended Pump Depth: | | 90 | | | |
| Pumping Rate: | | 3 | | | |
| Flowing Rate: | | | | | |
| Recommended Pump Rate: | | 2 | | | |
| Levels UOM: | | ft | | | |
| Rate UOM: | | GPM | | | |
| Water State After Test Code: | | 1 | | | |
| Water State After Test: | | CLEAR | | | |
| Pumping Test Method: | | 1 | | | |
| Pumping Duration HR: | | 1 | | | |
| Pumping Duration MIN: | | 0 | | | |
| Flowing: | | N | | | |
| <u>Draw Down & Recovery</u> | | | | | |
| Pump Test Detail ID: | | 934526544 | | | |
| Test Type: | | Recovery | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--|-------------------|----------------------------|------------------|------|----|
| Test Duration: | | 30 | | | |
| Test Level: | | 55 | | | |
| Test Level UOM: | | ft | | | |
| <u>Draw Down & Recovery</u> | | | | | |
| Pump Test Detail ID: | | 934780659 | | | |
| Test Type: | | Recovery | | | |
| Test Duration: | | 45 | | | |
| Test Level: | | 40 | | | |
| Test Level UOM: | | ft | | | |
| <u>Draw Down & Recovery</u> | | | | | |
| Pump Test Detail ID: | | 934260796 | | | |
| Test Type: | | Recovery | | | |
| Test Duration: | | 15 | | | |
| Test Level: | | 70 | | | |
| Test Level UOM: | | ft | | | |
| <u>Draw Down & Recovery</u> | | | | | |
| Pump Test Detail ID: | | 935045623 | | | |
| Test Type: | | Recovery | | | |
| Test Duration: | | 60 | | | |
| Test Level: | | 25 | | | |
| Test Level UOM: | | ft | | | |
| <u>Water Details</u> | | | | | |
| Water ID: | | 933793261 | | | |
| Layer: | | 1 | | | |
| Kind Code: | | 1 | | | |
| Kind: | | FRESH | | | |
| Water Found Depth: | | 90 | | | |
| Water Found Depth UOM: | | ft | | | |

[2](#)

1 of 1

-/0.0

209.9 / 1.00

ON

WWIS

| | | | |
|-------------------------------|---------|---------------------------|------------------------------|
| Well ID: | 7279718 | Data Entry Status: | Yes |
| Construction Date: | | Data Src: | |
| Primary Water Use: | | Date Received: | 1/26/2017 |
| Sec. Water Use: | | Selected Flag: | Yes |
| Final Well Status: | | Abandonment Rec: | |
| Water Type: | | Contractor: | 7230 |
| Casing Material: | | Form Version: | 8 |
| Audit No: | C28723 | Owner: | |
| Tag: | | Street Name: | |
| Construction Method: | | County: | PEEL |
| Elevation (m): | | Municipality: | BRAMPTON CITY (TORONTO GORE) |
| 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: | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|-------------------------------------|-------------------|-------------------------|---------------|-------------------------|--------------------------------|
| <u>Bore Hole Information</u> | | | | | |
| Bore Hole ID: | 1006344430 | | | Elevation: | 209.772109 |
| DP2BR: | | | | Elevrc: | |
| Spatial Status: | | | | Zone: | 17 |
| Code OB: | | | | East83: | 606402 |
| Code OB Desc: | | | | North83: | 4852120 |
| Open Hole: | | | | Org CS: | UTM83 |
| Cluster Kind: | | | | UTMRC: | 4 |
| Date Completed: | 10/3/2016 | | | 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: | | | | | |

| | | | | | |
|-------------------------------|-----------------|-------|--------------|---------------------------|---------------------------------------|
| <u>3</u> | 1 of 1 | -/0.0 | 209.3 / 0.44 | Brampton ON | WWIS |
| Well ID: | 7249974 | | | Data Entry Status: | |
| Construction Date: | | | | Data Src: | |
| Primary Water Use: | | | | Date Received: | 10/14/2015 |
| Sec. Water Use: | | | | Selected Flag: | Yes |
| Final Well Status: | Abandoned-Other | | | Abandonment Rec: | Yes |
| Water Type: | | | | Contractor: | 7472 |
| Casing Material: | | | | Form Version: | 7 |
| Audit No: | Z219828 | | | Owner: | |
| Tag: | | | | Street Name: | HWY 50 CASTLEMORE RD. & COLERAINE DR. |
| Construction Method: | | | | County: | PEEL |
| Elevation (m): | | | | Municipality: | BRAMPTON CITY (TORONTO GORE) |
| 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: | | | | | |

| | | | | | |
|-------------------------------------|------------|--|--|-------------------------|--------------------------------|
| <u>Bore Hole Information</u> | | | | | |
| Bore Hole ID: | 1005739560 | | | Elevation: | 208.724685 |
| DP2BR: | | | | Elevrc: | |
| Spatial Status: | | | | Zone: | 17 |
| Code OB: | | | | East83: | 606455 |
| Code OB Desc: | | | | North83: | 4852163 |
| Open Hole: | | | | Org CS: | UTM83 |
| Cluster Kind: | | | | UTMRC: | 4 |
| Date Completed: | 9/10/2015 | | | 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: | | | | | |

| <i>Map Key</i> | <i>Number of Records</i> | <i>Direction/ Distance (m)</i> | <i>Elev/Diff (m)</i> | <i>Site</i> | <i>DB</i> |
|----------------|--------------------------|--------------------------------|----------------------|-------------|-----------|
|----------------|--------------------------|--------------------------------|----------------------|-------------|-----------|

Annular Space/Abandonment Sealing Record

Plug ID: 1005770427
Layer: 1
Plug From: 0
Plug To: 12
Plug Depth UOM: m

Pipe Information

Pipe ID: 1005770419
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1005770424
Layer:
Material:
Open Hole or Material:
Depth From:
Depth To:
Casing Diameter:
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1005770425
Layer:
Slot:
Screen Top Depth:
Screen End Depth:
Screen Material:
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter:

Hole Diameter

Hole ID: 1005770421
Diameter: 21
Depth From: 0
Depth To: 6.1
Hole Depth UOM: m
Hole Diameter UOM: cm

Hole Diameter

Hole ID: 1005770422
Diameter: 5.2
Depth From: 6.1
Depth To: 12
Hole Depth UOM: m
Hole Diameter UOM: cm

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|---|-----------------------------------|----------------------------|------------------|--|--|
| Order No: | 20080924048 | | | Nearest Intersection: Hwy 50 and cadetta road | |
| Status: | C | | | Municipality: region of Peel | |
| Report Type: | Custom Report | | | Client Prov/State: ON | |
| Report Date: | 10/3/2008 | | | Search Radius (km): 0.25 | |
| Date Received: | 9/24/2008 | | | X: -79.678012 | |
| Previous Site Name: | | | | Y: 43.815669 | |
| Lot/Building Size: | con. 12 EHS Pt Lot 15 RP 43R25795 | | | | |
| Additional Info Ordered: | | | | | |
| <u>4</u> | 1 of 1 | NNE/5.3 | 208.9 / 0.00 | Brampton ON | WWIS |
| Well ID: | 7282340 | | | Data Entry Status: | |
| Construction Date: | | | | Data Src: | |
| Primary Water Use: | Monitoring | | | Date Received: | 2/28/2017 |
| Sec. Water Use: | | | | Selected Flag: | Yes |
| Final Well Status: | Observation Wells | | | Abandonment Rec: | |
| Water Type: | | | | Contractor: | 6607 |
| Casing Material: | | | | Form Version: | 7 |
| Audit No: | Z248118 | | | Owner: | |
| Tag: | A217935 | | | Street Name: | HWY 50 SOUTHBOUND LANE SOUTH OF CADETDA RD |
| Construction Method: | | | | County: | PEEL |
| Elevation (m): | | | | Municipality: | BRAMPTON CITY (TORONTO GORE) |
| 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: | | | | | |
| <u>Bore Hole Information</u> | | | | | |
| Bore Hole ID: | 1006361087 | | | Elevation: | 209.806594 |
| DP2BR: | | | | Elevrc: | |
| Spatial Status: | | | | Zone: | 17 |
| Code OB: | | | | East83: | 606408 |
| Code OB Desc: | | | | North83: | 4852298 |
| Open Hole: | | | | Org CS: | UTM83 |
| Cluster Kind: | | | | UTMRC: | 4 |
| Date Completed: | 2/1/2017 | | | 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: | | | | | |
| <u>Overburden and Bedrock Materials Interval</u> | | | | | |
| Formation ID: | 1006618317 | | | | |
| Layer: | 1 | | | | |
| Color: | 8 | | | | |
| General Color: | BLACK | | | | |
| Mat1: | | | | | |
| Most Common Material: | | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|---|--------------------------|--------------------------------|----------------------|-------------|-----------|
| Mat2: | | 60 | | | |
| Other Materials: | | CEMENTED | | | |
| Mat3: | | | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | | 0 | | | |
| Formation End Depth: | | 0.2 | | | |
| Formation End Depth UOM: | | m | | | |
| <u>Overburden and Bedrock Materials Interval</u> | | | | | |
| Formation ID: | | 1006618319 | | | |
| Layer: | | 3 | | | |
| Color: | | 2 | | | |
| General Color: | | GREY | | | |
| Mat1: | | 06 | | | |
| Most Common Material: | | SILT | | | |
| Mat2: | | 05 | | | |
| Other Materials: | | CLAY | | | |
| Mat3: | | 66 | | | |
| Other Materials: | | DENSE | | | |
| Formation Top Depth: | | 1.2 | | | |
| Formation End Depth: | | 6 | | | |
| Formation End Depth UOM: | | m | | | |
| <u>Overburden and Bedrock Materials Interval</u> | | | | | |
| Formation ID: | | 1006618318 | | | |
| Layer: | | 2 | | | |
| Color: | | 6 | | | |
| General Color: | | BROWN | | | |
| Mat1: | | 28 | | | |
| Most Common Material: | | SAND | | | |
| Mat2: | | 11 | | | |
| Other Materials: | | GRAVEL | | | |
| Mat3: | | 01 | | | |
| Other Materials: | | FILL | | | |
| Formation Top Depth: | | 0.2 | | | |
| Formation End Depth: | | 1.2 | | | |
| Formation End Depth UOM: | | m | | | |
| <u>Annular Space/Abandonment Sealing Record</u> | | | | | |
| Plug ID: | | 1006618327 | | | |
| Layer: | | 2 | | | |
| Plug From: | | 0.3 | | | |
| Plug To: | | 2.7 | | | |
| Plug Depth UOM: | | m | | | |
| <u>Annular Space/Abandonment Sealing Record</u> | | | | | |
| Plug ID: | | 1006618326 | | | |
| Layer: | | 1 | | | |
| Plug From: | | 0 | | | |
| Plug To: | | 0.3 | | | |
| Plug Depth UOM: | | m | | | |
| <u>Method of Construction & Well Use</u> | | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|---------|-------------------|----------------------------|------------------|------|----|
|---------|-------------------|----------------------------|------------------|------|----|

Method Construction ID:
Method Construction Code: 6
Method Construction: Boring
Other Method Construction:

Pipe Information

Pipe ID: 1006618316
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1006618322
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0
Depth To: 3
Casing Diameter: 5.1
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1006618323
Layer: 1
Slot: 10
Screen Top Depth: 3
Screen End Depth: 6
Screen Material: 5
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter: 6.4

Hole Diameter

Hole ID: 1006618320
Diameter: 21
Depth From: 0
Depth To: 6
Hole Depth UOM: m
Hole Diameter UOM: cm

| | | | | | |
|----------|--------|---------|---------------|---------------------|------|
| <u>6</u> | 1 of 1 | NW/28.6 | 207.8 / -1.04 | lot 12 con 11 ON | WWIS |
|----------|--------|---------|---------------|---------------------|------|

Well ID: 4905247
Construction Date:
Primary Water Use: Domestic
Sec. Water Use: 0
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No:
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:

Data Entry Status:
Data Src: 1
Date Received: 12/7/1977
Selected Flag: Yes
Abandonment Rec:
Contractor: 5206
Form Version: 1
Owner:
Street Name:
County: PEEL
Municipality: BRAMPTON CITY (TORONTO GORE)
Site Info:
Lot: 012

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--|---|----------------------------|------------------|--|----|
| Well Depth: Overburden/Bedrock: Pump Rate: Static Water Level: Flowing (Y/N): Flow Rate: Clear/Cloudy: | | | | Concession: 11 Concession Name: CON Easting NAD83: Northing NAD83: Zone: UTM Reliability: | |
| <u>Bore Hole Information</u> | | | | | |
| Bore Hole ID: DP2BR: Spatial Status: Code OB: Code OB Desc: Open Hole: Cluster Kind: Date Completed: Remarks: Elevrc Desc: Location Source Date: Improvement Location Source: Improvement Location Method: Source Revision Comment: Supplier Comment: | 10320002 76 r Bedrock 11/30/1977 | | | Elevation: 207.618927 Elevrc: Zone: 17 East83: 606164.6 North83: 4852073 Org CS: UTMRC: 5 UTMRC Desc: margin of error : 100 m - 300 m Location Method: p5 | |
| <u>Overburden and Bedrock</u> | | | | | |
| <u>Materials Interval</u> | | | | | |
| Formation ID: Layer: Color: General Color: Mat1: Most Common Material: Mat2: Other Materials: Mat3: Other Materials: Formation Top Depth: Formation End Depth: Formation End Depth UOM: | 932049232 3 2 GREY 17 SHALE 76 95 ft | | | | |
| <u>Overburden and Bedrock</u> | | | | | |
| <u>Materials Interval</u> | | | | | |
| Formation ID: Layer: Color: General Color: Mat1: Most Common Material: Mat2: Other Materials: Mat3: Other Materials: Formation Top Depth: Formation End Depth: Formation End Depth UOM: | 932049231 2 3 BLUE 05 CLAY 11 GRAVEL 26 76 ft | | | | |
| <u>Overburden and Bedrock</u> | | | | | |
| <u>Materials Interval</u> | | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|---|--------------------------|--------------------------------|----------------------|-------------|-----------|
| Formation ID: | | 932049230 | | | |
| Layer: | | 1 | | | |
| Color: | | 6 | | | |
| General Color: | | BROWN | | | |
| Mat1: | | 05 | | | |
| Most Common Material: | | CLAY | | | |
| Mat2: | | | | | |
| Other Materials: | | | | | |
| Mat3: | | | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | | 0 | | | |
| Formation End Depth: | | 26 | | | |
| Formation End Depth UOM: | | ft | | | |
| <u>Method of Construction & Well Use</u> | | | | | |
| Method Construction ID: | | | | | |
| Method Construction Code: | | 1 | | | |
| Method Construction: | | Cable Tool | | | |
| Other Method Construction: | | | | | |
| <u>Pipe Information</u> | | | | | |
| Pipe ID: | | 10868572 | | | |
| Casing No: | | 1 | | | |
| Comment: | | | | | |
| Alt Name: | | | | | |
| <u>Construction Record - Casing</u> | | | | | |
| Casing ID: | | 930528067 | | | |
| Layer: | | 1 | | | |
| Material: | | 1 | | | |
| Open Hole or Material: | | STEEL | | | |
| Depth From: | | | | | |
| Depth To: | | 82 | | | |
| Casing Diameter: | | 8 | | | |
| Casing Diameter UOM: | | inch | | | |
| Casing Depth UOM: | | ft | | | |
| <u>Results of Well Yield Testing</u> | | | | | |
| Pump Test ID: | | 994905247 | | | |
| Pump Set At: | | | | | |
| Static Level: | | 20 | | | |
| Final Level After Pumping: | | 85 | | | |
| Recommended Pump Depth: | | 85 | | | |
| Pumping Rate: | | 6 | | | |
| Flowing Rate: | | | | | |
| Recommended Pump Rate: | | 6 | | | |
| Levels UOM: | | ft | | | |
| Rate UOM: | | GPM | | | |
| Water State After Test Code: | | 1 | | | |
| Water State After Test: | | CLEAR | | | |
| Pumping Test Method: | | 1 | | | |
| Pumping Duration HR: | | 4 | | | |
| Pumping Duration MIN: | | 0 | | | |
| Flowing: | | N | | | |
| <u>Draw Down & Recovery</u> | | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|---------|-------------------|----------------------------|------------------|------|----|
|---------|-------------------|----------------------------|------------------|------|----|

Pump Test Detail ID: 935045648
Test Type: Recovery
Test Duration: 60
Test Level: 20
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934780683
Test Type: Recovery
Test Duration: 45
Test Level: 25
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934526569
Test Type: Recovery
Test Duration: 30
Test Level: 40
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934260821
Test Type: Recovery
Test Duration: 15
Test Level: 70
Test Level UOM: ft

Water Details

Water ID: 933793292
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 90
Water Found Depth UOM: ft

| | | | | | |
|-------------------|--------|----------|---------------|-------------|------|
| 7 | 1 of 1 | ESE/31.2 | 206.9 / -2.00 | Brampton ON | WWIS |
|-------------------|--------|----------|---------------|-------------|------|

Well ID: 7249973
Construction Date:
Primary Water Use:
Sec. Water Use:
Final Well Status: Abandoned-Other
Water Type:
Casing Material:
Audit No: Z219827
Tag:

Data Entry Status:
Data Src:
Date Received: 10/14/2015
Selected Flag: Yes
Abandonment Rec: Yes
Contractor: 7472
Form Version: 7
Owner:
Street Name: HWY 50 CASTLEMORE RD. & COLERAINE DR.
County: PEEL
Municipality: BRAMPTON CITY (TORONTO GORE)
Site Info:
Lot:
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:

Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--|--------------------------|--------------------------------|----------------------|-------------------------|--------------------------------|
| Flow Rate: | | | | UTM Reliability: | |
| Clear/Cloudy: | | | | | |
| <u>Bore Hole Information</u> | | | | | |
| Bore Hole ID: | 1005739557 | | | Elevation: | 209.180435 |
| DP2BR: | | | | Elevrc: | |
| Spatial Status: | | | | Zone: | 17 |
| Code OB: | | | | East83: | 606570 |
| Code OB Desc: | | | | North83: | 4851889 |
| Open Hole: | | | | Org CS: | UTM83 |
| Cluster Kind: | | | | UTMRC: | 4 |
| Date Completed: | 9/10/2015 | | | 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: | | | | | |
| <u>Annular Space/Abandonment Sealing Record</u> | | | | | |
| Plug ID: | 1005770415 | | | | |
| Layer: | 1 | | | | |
| Plug From: | 0 | | | | |
| Plug To: | 12 | | | | |
| Plug Depth UOM: | m | | | | |
| <u>Pipe Information</u> | | | | | |
| Pipe ID: | 1005770407 | | | | |
| Casing No: | 0 | | | | |
| Comment: | | | | | |
| Alt Name: | | | | | |
| <u>Construction Record - Casing</u> | | | | | |
| Casing ID: | 1005770412 | | | | |
| Layer: | | | | | |
| Material: | | | | | |
| Open Hole or Material: | | | | | |
| Depth From: | | | | | |
| Depth To: | | | | | |
| Casing Diameter: | | | | | |
| Casing Diameter UOM: | cm | | | | |
| Casing Depth UOM: | m | | | | |
| <u>Construction Record - Screen</u> | | | | | |
| Screen ID: | 1005770413 | | | | |
| Layer: | | | | | |
| Slot: | | | | | |
| Screen Top Depth: | | | | | |
| Screen End Depth: | | | | | |
| Screen Material: | | | | | |
| Screen Depth UOM: | m | | | | |
| Screen Diameter UOM: | cm | | | | |
| Screen Diameter: | | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--------------------------|--------------------------------|----------------------------|------------------|--|-----|
| <u>Hole Diameter</u> | | | | | |
| Hole ID: | | 1005770410 | | | |
| Diameter: | | 21 | | | |
| Depth From: | | 0 | | | |
| Depth To: | | 6.1 | | | |
| Hole Depth UOM: | | m | | | |
| Hole Diameter UOM: | | cm | | | |
| <u>Hole Diameter</u> | | | | | |
| Hole ID: | | 1005770409 | | | |
| Diameter: | | 5.2 | | | |
| Depth From: | | 6.1 | | | |
| Depth To: | | 12 | | | |
| Hole Depth UOM: | | m | | | |
| Hole Diameter UOM: | | cm | | | |
| <u>8</u> | 1 of 3 | N/43.6 | 209.9 / 1.00 | TOTAL CRANE RENTAL LTD. 2 CADETTA ROAD BRAMPTON ON L6T 3Z8 | GEN |
| Generator No: | ON2489600 | | | PO Box No: | |
| Status: | | | | Country: | |
| Approval Years: | 99,00,01 | | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | 9911 | | | | |
| SIC Description: | IND. MACH. RENTAL | | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | 252 | | | | |
| Waste Class Desc: | WASTE OILS & LUBRICANTS | | | | |
| <u>8</u> | 2 of 3 | N/43.6 | 209.9 / 1.00 | 2 CADETTA RD, BRAMPTON ON | INC |
| Incident No: | 1127028 | | | | |
| Incident ID: | | | | | |
| Attribute Category: | FS-Perform L1 Incident Insp | | | | |
| Status Code: | | | | | |
| Incident Location: | 2 CADETTA RD, BRAMPTON - SPILL | | | | |
| Drainage System: | | | | | |
| Sub Surface Contam.: | | | | | |
| Aff. Prop. Use Water: | | | | | |
| Contam. Migrated: | | | | | |
| Contact Natural Env.: | | | | | |
| Near Body of Water: | | | | | |
| Approx. Quant. Rel.: | | | | | |
| Equipment Model: | | | | | |
| Serial No: | | | | | |
| Residential App. Type: | | | | | |
| Commercial App. Type: | | | | | |
| Industrial App. Type: | | | | | |
| Institutional App. Type: | | | | | |
| Venting Type: | | | | | |
| Vent Connector Mater: | | | | | |
| Vent Chimney Mater: | | | | | |
| Pipeline Type: | | | | | |
| Pipeline Involved: | | | | | |
| Pipe Material: | | | | | |
| Depth Ground Cover: | | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--|-------------------|----------------------------|------------------|------|----|
| Regulator Location: Regulator Type: Operation Pressure: Liquid Prop Make: Liquid Prop Model: Liquid Prop Serial No: Equipment Type: Cylinder Capacity: Cylinder Capac. Units: Cylinder Material Type: Tank Capacity: Fuels Occurrence Type: Liquid Petroleum Spill Fuel Type Involved: Diesel Date of Occurrence: 2013/06/11 00:00:00 Time of Occurrence: NULL Occur Insp Start Date: 2013/06/11 00:00:00 Any Health Impact: No Any Environmental Impact: No Was Service Interrupted: No Was Property Damaged: No Operation Type Involved: Private Fuel Outlet Enforcement Policy: NULL Prc Escalation Required: NULL Task No: 4513109 Notes: Occurrence Narrative: SPILL DUE TO UNATTENDED VEHICLE WHILE FILLING Tank Material Type: Tank Storage Type: Tank Location Type: Pump Flow Rate Capac: Liquid Prop Notes: | | | | | |

| <u>8</u> | 3 of 3 | N/43.6 | 209.9 / 1.00 | 2 Cadetta Rd Brampton ON | SPL |
|------------------------------|--|--------|--------------|------------------------------|---------------|
| Ref No: | 2501-98KRZM | | | Discharger Report: | |
| Site No: | | | | Material Group: | |
| Incident Dt: | 11-JUN-13 | | | Health/Env Conseq: | |
| Year: | | | | Client Type: | |
| Incident Cause: | Leak/Break | | | Sector Type: | Unknown / N/A |
| Incident Event: | | | | Agency Involved: | |
| Contaminant Code: | 13 | | | Nearest Watercourse: | |
| Contaminant Name: | DIESEL FUEL | | | Site Address: | 2 Cadetta Rd |
| Contaminant Limit 1: | | | | Site District Office: | |
| Contam Limit Freq 1: | | | | Site Postal Code: | |
| Contaminant UN No 1: | | | | Site Region: | |
| Environment Impact: | Confirmed | | | Site Municipality: | Brampton |
| Nature of Impact: | Soil Contamination | | | Site Lot: | |
| Receiving Medium: | | | | Site Conc: | |
| Receiving Env: | | | | Northing: | |
| MOE Response: | Priority Field Response (ERP Callout) | | | Easting: | |
| Dt MOE Arvl on Scn: | 11-JUN-13 | | | Site Geo Ref Accu: | |
| MOE Reported Dt: | 11-JUN-13 | | | Site Map Datum: | |
| Dt Document Closed: | | | | SAC Action Class: | Land Spills |
| Incident Reason: | Unknown / N/A | | | Source Type: | |
| Site Name: | 1295503 Ontario Inc<UNOFFICIAL> | | | | |
| Site County/District: | | | | | |
| Site Geo Ref Meth: | | | | | |
| Incident Summary: | Spill diesel from private prop to City boulevard | | | | |
| Contaminant Qty: | 0 other - see incident description | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|----------|-------------------|----------------------------|------------------|---------------------|------|
| <u>9</u> | 1 of 1 | N/53.2 | 209.9 / 1.00 | lot 12 con 11 ON | WWIS |

| | | | |
|-------------------------------|--------------|---------------------------|------------------------------|
| Well ID: | 4906179 | Data Entry Status: | |
| Construction Date: | | Data Src: | 1 |
| Primary Water Use: | Industrial | Date Received: | 5/18/1984 |
| Sec. Water Use: | | Selected Flag: | Yes |
| Final Well Status: | Water Supply | Abandonment Rec: | |
| Water Type: | | Contractor: | 1663 |
| Casing Material: | | Form Version: | 1 |
| Audit No: | | Owner: | |
| Tag: | | Street Name: | |
| Construction Method: | | County: | PEEL |
| Elevation (m): | | Municipality: | BRAMPTON CITY (TORONTO GORE) |
| Elevation Reliability: | | Site Info: | |
| Depth to Bedrock: | | Lot: | 012 |
| Well Depth: | | Concession: | 11 |
| Overburden/Bedrock: | | Concession Name: | CON |
| Pump Rate: | | Easting NAD83: | |
| Static Water Level: | | Northing NAD83: | |
| Flowing (Y/N): | | Zone: | |
| Flow Rate: | | UTM Reliability: | |
| Clear/Cloudy: | | | |

Bore Hole Information

| | | | |
|-------------------------------------|-----------|-------------------------|--------------------------------|
| Bore Hole ID: | 10320755 | Elevation: | 210.185699 |
| DP2BR: | 80 | Elevrc: | |
| Spatial Status: | | Zone: | 17 |
| Code OB: | r | East83: | 606260.6 |
| Code OB Desc: | Bedrock | North83: | 4852234 |
| Open Hole: | | Org CS: | |
| Cluster Kind: | | UTMRC: | 4 |
| Date Completed: | 6/28/1983 | UTMRC Desc: | margin of error : 30 m - 100 m |
| Remarks: | | Location Method: | topo |
| Elevrc Desc: | | | |
| Location Source Date: | | | |
| Improvement Location Source: | | | |
| Improvement Location Method: | | | |
| Source Revision Comment: | | | |
| Supplier Comment: | | | |

Overburden and Bedrock

Materials Interval

| | |
|---------------------------------|-----------|
| Formation ID: | 932052647 |
| Layer: | 5 |
| Color: | 2 |
| General Color: | GREY |
| Mat1: | 17 |
| Most Common Material: | SHALE |
| Mat2: | |
| Other Materials: | |
| Mat3: | |
| Other Materials: | |
| Formation Top Depth: | 80 |
| Formation End Depth: | 89 |
| Formation End Depth UOM: | ft |

Overburden and Bedrock

Materials Interval

| | |
|----------------------|-----------|
| Formation ID: | 932052648 |
|----------------------|-----------|

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--------------------------------------|--------------------------|------------------------------------|--------------------------|-------------|-----------|
| Layer: | | | 6 | | |
| Color: | | | 2 | | |
| General Color: | | | GREY | | |
| Mat1: | | | 17 | | |
| Most Common Material: | | | SHALE | | |
| Mat2: | | | 73 | | |
| Other Materials: | | | HARD | | |
| Mat3: | | | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | | | 89 | | |
| Formation End Depth: | | | 97 | | |
| Formation End Depth UOM: | | | ft | | |
| <u>Overburden and Bedrock</u> | | | | | |
| <u>Materials Interval</u> | | | | | |
| Formation ID: | | | 932052645 | | |
| Layer: | | | 3 | | |
| Color: | | | 2 | | |
| General Color: | | | GREY | | |
| Mat1: | | | 11 | | |
| Most Common Material: | | | GRAVEL | | |
| Mat2: | | | 05 | | |
| Other Materials: | | | CLAY | | |
| Mat3: | | | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | | | 56 | | |
| Formation End Depth: | | | 61 | | |
| Formation End Depth UOM: | | | ft | | |
| <u>Overburden and Bedrock</u> | | | | | |
| <u>Materials Interval</u> | | | | | |
| Formation ID: | | | 932052643 | | |
| Layer: | | | 1 | | |
| Color: | | | 6 | | |
| General Color: | | | BROWN | | |
| Mat1: | | | 05 | | |
| Most Common Material: | | | CLAY | | |
| Mat2: | | | 11 | | |
| Other Materials: | | | GRAVEL | | |
| Mat3: | | | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | | | 0 | | |
| Formation End Depth: | | | 16 | | |
| Formation End Depth UOM: | | | ft | | |
| <u>Overburden and Bedrock</u> | | | | | |
| <u>Materials Interval</u> | | | | | |
| Formation ID: | | | 932052644 | | |
| Layer: | | | 2 | | |
| Color: | | | 3 | | |
| General Color: | | | BLUE | | |
| Mat1: | | | 05 | | |
| Most Common Material: | | | CLAY | | |
| Mat2: | | | 11 | | |
| Other Materials: | | | GRAVEL | | |
| Mat3: | | | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | | | 16 | | |
| Formation End Depth: | | | 56 | | |
| Formation End Depth UOM: | | | ft | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|---|--------------------------|------------------------------------|--------------------------|-------------|-----------|
| <u>Overburden and Bedrock Materials Interval</u> | | | | | |
| Formation ID: | | 932052646 | | | |
| Layer: | | 4 | | | |
| Color: | | 2 | | | |
| General Color: | | GREY | | | |
| Mat1: | | 11 | | | |
| Most Common Material: | | GRAVEL | | | |
| Mat2: | | 28 | | | |
| Other Materials: | | SAND | | | |
| Mat3: | | 06 | | | |
| Other Materials: | | SILT | | | |
| Formation Top Depth: | | 61 | | | |
| Formation End Depth: | | 80 | | | |
| Formation End Depth UOM: | | ft | | | |
| <u>Method of Construction & Well Use</u> | | | | | |
| Method Construction ID: | | | | | |
| Method Construction Code: | | 2 | | | |
| Method Construction: | | Rotary (Convent.) | | | |
| Other Method Construction: | | | | | |
| <u>Pipe Information</u> | | | | | |
| Pipe ID: | | 10869325 | | | |
| Casing No: | | 1 | | | |
| Comment: | | | | | |
| Alt Name: | | | | | |
| <u>Construction Record - Casing</u> | | | | | |
| Casing ID: | | 930529268 | | | |
| Layer: | | 1 | | | |
| Material: | | 1 | | | |
| Open Hole or Material: | | STEEL | | | |
| Depth From: | | | | | |
| Depth To: | | 82 | | | |
| Casing Diameter: | | 6 | | | |
| Casing Diameter UOM: | | inch | | | |
| Casing Depth UOM: | | ft | | | |
| <u>Construction Record - Casing</u> | | | | | |
| Casing ID: | | 930529269 | | | |
| Layer: | | 2 | | | |
| Material: | | 4 | | | |
| Open Hole or Material: | | OPEN HOLE | | | |
| Depth From: | | | | | |
| Depth To: | | 97 | | | |
| Casing Diameter: | | 6 | | | |
| Casing Diameter UOM: | | inch | | | |
| Casing Depth UOM: | | ft | | | |
| <u>Results of Well Yield Testing</u> | | | | | |
| Pump Test ID: | | 994906179 | | | |
| Pump Set At: | | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|------------------------------|-------------------|----------------------------|------------------|------|----|
| Static Level: | | 31 | | | |
| Final Level After Pumping: | | 94 | | | |
| Recommended Pump Depth: | | 95 | | | |
| Pumping Rate: | | 4 | | | |
| Flowing Rate: | | | | | |
| Recommended Pump Rate: | | 4 | | | |
| Levels UOM: | | ft | | | |
| Rate UOM: | | GPM | | | |
| Water State After Test Code: | | 1 | | | |
| Water State After Test: | | CLEAR | | | |
| Pumping Test Method: | | 2 | | | |
| Pumping Duration HR: | | 1 | | | |
| Pumping Duration MIN: | | 20 | | | |
| Flowing: | | N | | | |

Draw Down & Recovery

| | |
|----------------------|-----------|
| Pump Test Detail ID: | 934253213 |
| Test Type: | Draw Down |
| Test Duration: | 15 |
| Test Level: | 94 |
| Test Level UOM: | ft |

Water Details

| | |
|------------------------|-----------|
| Water ID: | 933794118 |
| Layer: | 1 |
| Kind Code: | 1 |
| Kind: | FRESH |
| Water Found Depth: | |
| Water Found Depth UOM: | ft |

10 1 of 1 N/58.9 209.9 / 1.00 Brampton ON WWIS

| | | | |
|------------------------|-----------------|--------------------|--|
| Well ID: | 7249975 | Data Entry Status: | |
| Construction Date: | | Data Src: | |
| Primary Water Use: | | Date Received: | 10/14/2015 |
| Sec. Water Use: | | Selected Flag: | Yes |
| Final Well Status: | Abandoned-Other | Abandonment Rec: | Yes |
| Water Type: | | Contractor: | 7472 |
| Casing Material: | | Form Version: | 7 |
| Audit No: | Z214798 | Owner: | |
| Tag: | | Street Name: | HWY 50 APPROX. 300M SOUTH OF COLERAINE |
| Construction Method: | | County: | PEEL |
| Elevation (m): | | Municipality: | BRAMPTON CITY (TORONTO GORE) |
| 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: | | | |

Bore Hole Information

| | | | |
|-----------------|------------|------------|------------|
| Bore Hole ID: | 1005739563 | Elevation: | 210.411819 |
| DP2BR: | | Elevrc: | |
| Spatial Status: | | Zone: | 17 |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--|--------------------------|--------------------------------|----------------------|-------------------------|--------------------------------|
| Code OB: | | | | East83: | 606372 |
| Code OB Desc: | | | | North83: | 4852371 |
| Open Hole: | | | | Org CS: | UTM83 |
| Cluster Kind: | | | | UTMRC: | 4 |
| Date Completed: | 7/24/2015 | | | 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: | | | | | |
| <u>Annular Space/Abandonment Sealing Record</u> | | | | | |
| Plug ID: | | 1005770439 | | | |
| Layer: | | 1 | | | |
| Plug From: | | 0 | | | |
| Plug To: | | 18 | | | |
| Plug Depth UOM: | | m | | | |
| <u>Pipe Information</u> | | | | | |
| Pipe ID: | | 1005770431 | | | |
| Casing No: | | 0 | | | |
| Comment: | | | | | |
| Alt Name: | | | | | |
| <u>Construction Record - Casing</u> | | | | | |
| Casing ID: | | 1005770436 | | | |
| Layer: | | | | | |
| Material: | | | | | |
| Open Hole or Material: | | | | | |
| Depth From: | | | | | |
| Depth To: | | | | | |
| Casing Diameter: | | | | | |
| Casing Diameter UOM: | | cm | | | |
| Casing Depth UOM: | | m | | | |
| <u>Construction Record - Screen</u> | | | | | |
| Screen ID: | | 1005770437 | | | |
| Layer: | | | | | |
| Slot: | | | | | |
| Screen Top Depth: | | | | | |
| Screen End Depth: | | | | | |
| Screen Material: | | | | | |
| Screen Depth UOM: | | m | | | |
| Screen Diameter UOM: | | cm | | | |
| Screen Diameter: | | | | | |
| <u>Hole Diameter</u> | | | | | |
| Hole ID: | | 1005770434 | | | |
| Diameter: | | 5.2 | | | |
| Depth From: | | 2 | | | |
| Depth To: | | 18 | | | |
| Hole Depth UOM: | | m | | | |
| Hole Diameter UOM: | | cm | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|---------|-------------------|----------------------------|------------------|------|----|
|---------|-------------------|----------------------------|------------------|------|----|

Hole Diameter

Hole ID: 1005770433
Diameter: 21
Depth From: 0
Depth To: 2
Hole Depth UOM: m
Hole Diameter UOM: cm

11 1 of 1 SSE/60.6 206.9 / -2.00 lot 11 con 11 ON WWIS

| | |
|---|---|
| <p>Well ID: 4902862 Construction Date: Primary Water Use: Livestock Sec. Water Use: Domestic Final Well Status: Water Supply Water Type: Casing Material: Audit No: Tag: Construction Method: Elevation (m): Elevation Reliability: Depth to Bedrock: Well Depth: Overburden/Bedrock: Pump Rate: Static Water Level: Flowing (Y/N): Flow Rate: Clear/Cloudy:</p> | <p>Data Entry Status: Data Src: 1 Date Received: 1/17/1967 Selected Flag: Yes Abandonment Rec: Contractor: 5206 Form Version: 1 Owner: Street Name: County: PEEL Municipality: BRAMPTON CITY (TORONTO GORE) Site Info: Lot: 011 Concession: 11 Concession Name: CON Easting NAD83: Northing NAD83: Zone: UTM Reliability:</p> |
|---|---|

Bore Hole Information

| | |
|---|---|
| <p>Bore Hole ID: 10317703 DP2BR: 66 Spatial Status: Code OB: r Code OB Desc: Bedrock Open Hole: Cluster Kind: Date Completed: 10/25/1966 Remarks: Elevrc Desc: Location Source Date: Improvement Location Source: Improvement Location Method: Source Revision Comment: Supplier Comment:</p> | <p>Elevation: 208.391708 Elevrc: Zone: 17 East83: 606379.6 North83: 4851703 Org CS: UTMRC: 4 UTMRC Desc: margin of error : 30 m - 100 m Location Method: p4</p> |
|---|---|

**Overburden and Bedrock
Materials Interval**

Formation ID: 932039383
Layer: 3
Color: 3
General Color: BLUE
Mat1: 05
Most Common Material: CLAY
Mat2:
Other Materials:

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|---|--------------------------|------------------------------------|--------------------------|-------------|-----------|
| Mat3: | | | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | | 18 | | | |
| Formation End Depth: | | 22 | | | |
| Formation End Depth UOM: | | ft | | | |
| | | | | | |
| <u>Overburden and Bedrock Materials Interval</u> | | | | | |
| Formation ID: | | 932039386 | | | |
| Layer: | | 6 | | | |
| Color: | | | | | |
| General Color: | | | | | |
| Mat1: | | 06 | | | |
| Most Common Material: | | SILT | | | |
| Mat2: | | | | | |
| Other Materials: | | | | | |
| Mat3: | | | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | | 64 | | | |
| Formation End Depth: | | 66 | | | |
| Formation End Depth UOM: | | ft | | | |
| | | | | | |
| <u>Overburden and Bedrock Materials Interval</u> | | | | | |
| Formation ID: | | 932039385 | | | |
| Layer: | | 5 | | | |
| Color: | | 3 | | | |
| General Color: | | BLUE | | | |
| Mat1: | | 05 | | | |
| Most Common Material: | | CLAY | | | |
| Mat2: | | | | | |
| Other Materials: | | | | | |
| Mat3: | | | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | | 23 | | | |
| Formation End Depth: | | 64 | | | |
| Formation End Depth UOM: | | ft | | | |
| | | | | | |
| <u>Overburden and Bedrock Materials Interval</u> | | | | | |
| Formation ID: | | 932039382 | | | |
| Layer: | | 2 | | | |
| Color: | | 6 | | | |
| General Color: | | BROWN | | | |
| Mat1: | | 05 | | | |
| Most Common Material: | | CLAY | | | |
| Mat2: | | | | | |
| Other Materials: | | | | | |
| Mat3: | | | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | | 1 | | | |
| Formation End Depth: | | 18 | | | |
| Formation End Depth UOM: | | ft | | | |
| | | | | | |
| <u>Overburden and Bedrock Materials Interval</u> | | | | | |
| Formation ID: | | 932039387 | | | |
| Layer: | | 7 | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|---|--------------------------|------------------------------------|--------------------------|-------------|-----------|
| Color: | | 3 | | | |
| General Color: | | BLUE | | | |
| Mat1: | | 17 | | | |
| Most Common Material: | | SHALE | | | |
| Mat2: | | | | | |
| Other Materials: | | | | | |
| Mat3: | | | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | | 66 | | | |
| Formation End Depth: | | 90 | | | |
| Formation End Depth UOM: | | ft | | | |
| <u>Overburden and Bedrock Materials Interval</u> | | | | | |
| Formation ID: | | 932039384 | | | |
| Layer: | | 4 | | | |
| Color: | | | | | |
| General Color: | | | | | |
| Mat1: | | 11 | | | |
| Most Common Material: | | GRAVEL | | | |
| Mat2: | | | | | |
| Other Materials: | | | | | |
| Mat3: | | | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | | 22 | | | |
| Formation End Depth: | | 23 | | | |
| Formation End Depth UOM: | | ft | | | |
| <u>Overburden and Bedrock Materials Interval</u> | | | | | |
| Formation ID: | | 932039381 | | | |
| Layer: | | 1 | | | |
| Color: | | | | | |
| General Color: | | | | | |
| Mat1: | | 02 | | | |
| Most Common Material: | | TOPSOIL | | | |
| Mat2: | | | | | |
| Other Materials: | | | | | |
| Mat3: | | | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | | 0 | | | |
| Formation End Depth: | | 1 | | | |
| Formation End Depth UOM: | | ft | | | |
| <u>Method of Construction & Well Use</u> | | | | | |
| Method Construction ID: | | | | | |
| Method Construction Code: | | 1 | | | |
| Method Construction: | | Cable Tool | | | |
| Other Method Construction: | | | | | |
| <u>Pipe Information</u> | | | | | |
| Pipe ID: | | 10866273 | | | |
| Casing No: | | 1 | | | |
| Comment: | | | | | |
| Alt Name: | | | | | |
| <u>Construction Record - Casing</u> | | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|---------|-------------------|----------------------------|------------------|------|----|
|---------|-------------------|----------------------------|------------------|------|----|

Casing ID: 930524969
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 66
Casing Diameter: 7
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930524970
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 90
Casing Diameter: 7
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 994902862
Pump Set At:
Static Level: 20
Final Level After Pumping: 85
Recommended Pump Depth: 85
Pumping Rate: 3
Flowing Rate:
Recommended Pump Rate: 3
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR: 8
Pumping Duration MIN: 0
Flowing: N

Water Details

Water ID: 933790886
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 74
Water Found Depth UOM: ft

| | | | | | |
|--------------------|---------|----------|--------------|---|-----|
| 12 | 1 of 16 | NNW/69.6 | 209.3 / 0.44 | PILEN CONSTRUCTION OF CANADA LIMITED 22 CADETTA RD RR 9 BRAMPTON ON | EXP |
|--------------------|---------|----------|--------------|---|-----|

Instance No: 11101494
Instance ID: 69091
Instance Type: FS Propane Tank
Description: FS Propane Tank
Status: EXPIRED
TSSA Program Area:
Maximum Hazard Rank:

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|---------|-------------------|----------------------------|------------------|------|----|
|---------|-------------------|----------------------------|------------------|------|----|

Facility Type:
Expired Date:

| | | | | | |
|--------------------|---------|----------|--------------|---|-----|
| 12 | 2 of 16 | NNW/69.6 | 209.3 / 0.44 | PILEN CONSTRUCTION OF CANADA LIMITED 22 CADETTA RD RR 9 BRAMPTON ON | EXP |
|--------------------|---------|----------|--------------|---|-----|

Instance No: 9901394
Instance ID: 394140
Instance Type: FS Facility
Description: FS Propane Refill Cntr - Cylr Fill
Status: EXPIRED
TSSA Program Area:
Maximum Hazard Rank:
Facility Type:
Expired Date:

| | | | | | |
|--------------------|---------|----------|--------------|--|-----|
| 12 | 3 of 16 | NNW/69.6 | 209.3 / 0.44 | PILEN CONSTRUCTION OF CANADA LIMITED 22 CADETTA ROAD BRAMPTON ON L6P 0X4 | GEN |
|--------------------|---------|----------|--------------|--|-----|

| | | | |
|-------------------|--|--------------------|--|
| Generator No: | ON0140700 | PO Box No: | |
| Status: | | Country: | |
| Approval Years: | 2011 | Choice of Contact: | |
| Contam. Facility: | | Co Admin: | |
| MHSW Facility: | | Phone No Admin: | |
| SIC Code: | 532410 | | |
| SIC Description: | Construction Transportation Mining and Forestry Machinery and Equipment Rental and Leasing | | |

Detail(s)

| | |
|-------------------|-------------------------|
| Waste Class: | 213 |
| Waste Class Desc: | PETROLEUM DISTILLATES |
| Waste Class: | 211 |
| Waste Class Desc: | AROMATIC SOLVENTS |
| Waste Class: | 251 |
| Waste Class Desc: | OIL SKIMMINGS & SLUDGES |
| Waste Class: | 252 |
| Waste Class Desc: | WASTE OILS & LUBRICANTS |

| | | | | | |
|--------------------|---------|----------|--------------|--|-----|
| 12 | 4 of 16 | NNW/69.6 | 209.3 / 0.44 | PILEN CONSTRUCTION OF CANADA LIMITED 22 CADETTA ROAD BRAMPTON ON L6T 3Z8 | GEN |
|--------------------|---------|----------|--------------|--|-----|

| | | | |
|-------------------|--|--------------------|--|
| Generator No: | ON0140700 | PO Box No: | |
| Status: | | Country: | |
| Approval Years: | 92,93,94,95,96,97,98,99,00,01,02,03,04,05,06,07,08 | Choice of Contact: | |
| Contam. Facility: | | Co Admin: | |
| MHSW Facility: | | Phone No Admin: | |
| SIC Code: | 4122 | | |
| SIC Description: | WATERWORKS & SEWAGE | | |

Detail(s)

| | |
|-------------------|-------------------|
| Waste Class: | 211 |
| Waste Class Desc: | AROMATIC SOLVENTS |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--------------------------|--|----------------------------|------------------|--|-----|
| Waste Class: | | 213 | | | |
| Waste Class Desc: | | PETROLEUM DISTILLATES | | | |
| Waste Class: | | 251 | | | |
| Waste Class Desc: | | OIL SKIMMINGS & SLUDGES | | | |
| Waste Class: | | 252 | | | |
| Waste Class Desc: | | WASTE OILS & LUBRICANTS | | | |
| 12 | 5 of 16 | NNW/69.6 | 209.3 / 0.44 | PILEN CONSTRUCTION OF CANADA LIMITED 22 CADETTA ROAD BRAMPTON ON L6T 3Z8 | GEN |
| Generator No: | ON0140700 | | | PO Box No: | |
| Status: | | | | Country: | |
| Approval Years: | 2012 | | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | 532410 | | | | |
| SIC Description: | Construction Transportation Mining and Forestry Machinery and Equipment Rental and Leasing | | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | | 213 | | | |
| Waste Class Desc: | | PETROLEUM DISTILLATES | | | |
| Waste Class: | | 211 | | | |
| Waste Class Desc: | | AROMATIC SOLVENTS | | | |
| Waste Class: | | 252 | | | |
| Waste Class Desc: | | WASTE OILS & LUBRICANTS | | | |
| Waste Class: | | 251 | | | |
| Waste Class Desc: | | OIL SKIMMINGS & SLUDGES | | | |
| 12 | 6 of 16 | NNW/69.6 | 209.3 / 0.44 | PILEN CONSTRUCTION OF CANADA LTD. RR #9, 22 CADETTA ROAD BRAMPTON ON L6T 3Z8 | GEN |
| Generator No: | ON0140700 | | | PO Box No: | |
| Status: | | | | Country: | |
| Approval Years: | 90 | | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | 4122 | | | | |
| SIC Description: | WATERWORKS & SEWAGE | | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | | 213 | | | |
| Waste Class Desc: | | PETROLEUM DISTILLATES | | | |
| Waste Class: | | 251 | | | |
| Waste Class Desc: | | OIL SKIMMINGS & SLUDGES | | | |
| Waste Class: | | 252 | | | |
| Waste Class Desc: | | WASTE OILS & LUBRICANTS | | | |
| 12 | 7 of 16 | NNW/69.6 | 209.3 / 0.44 | PILEN CONSTRUCTION OF CANADA LIMITED 22 CADETTA ROAD BRAMPTON ON L6P0X4 | GEN |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--------------------------|---|----------------------------|---------------------|---|-------------|
| Generator No: | ON0140700 | | | PO Box No: | |
| Status: | Registered | | | Country: | Canada |
| Approval Years: | As of Mar 2019 | | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | | | | | |
| SIC Description: | | | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | 221 I | | | | |
| Waste Class Desc: | Light fuels | | | | |
| Waste Class: | 251 L | | | | |
| Waste Class Desc: | Waste oils/sludges (petroleum based) | | | | |
| Waste Class: | 213 T | | | | |
| Waste Class Desc: | Petroleum distillates | | | | |
| Waste Class: | 211 H | | | | |
| Waste Class Desc: | Aromatic solvents and residues | | | | |
| Waste Class: | 252 L | | | | |
| Waste Class Desc: | Waste crankcase oils and lubricants | | | | |
| Waste Class: | 252 T | | | | |
| Waste Class Desc: | Waste crankcase oils and lubricants | | | | |
| 12 | 8 of 16 | NNW/69.6 | 209.3 / 0.44 | PILEN CONSTRUCTION OF CANADA LTD. RR #9, 22 CADETTA ROAD BRAMPTON ON L6T 3Z8 | GEN |
| Generator No: | ON0140700 | | | PO Box No: | |
| Status: | | | | Country: | |
| Approval Years: | 86,87,88,89 | | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | 4122 | | | | |
| SIC Description: | WATERWORKS & SEWAGE | | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | 213 | | | | |
| Waste Class Desc: | PETROLEUM DISTILLATES | | | | |
| Waste Class: | 251 | | | | |
| Waste Class Desc: | OIL SKIMMINGS & SLUDGES | | | | |
| Waste Class: | 252 | | | | |
| Waste Class Desc: | WASTE OILS & LUBRICANTS | | | | |
| 12 | 9 of 16 | NNW/69.6 | 209.3 / 0.44 | PILEN CONSTRUCTION OF CANADA LIMITED 22 CADETTA ROAD BRAMPTON ON L6P0X4 | GEN |
| Generator No: | ON0140700 | | | PO Box No: | |
| Status: | | | | Country: | Canada |
| Approval Years: | 2015 | | | Choice of Contact: | CO_OFFICIAL |
| Contam. Facility: | No | | | Co Admin: | |
| MHSW Facility: | No | | | Phone No Admin: | |
| SIC Code: | 532410 | | | | |
| SIC Description: | CONSTRUCTION, TRANSPORTATION, MINING, AND FORESTRY MACHINERY AND EQUIPMENT RENTAL | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--------------------------|-------------------|-------------------------|---------------|------|----|
| | | AND LEASING | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | | 221 | | | |
| Waste Class Desc: | | LIGHT FUELS | | | |
| Waste Class: | | 251 | | | |
| Waste Class Desc: | | OIL SKIMMINGS & SLUDGES | | | |
| Waste Class: | | 213 | | | |
| Waste Class Desc: | | PETROLEUM DISTILLATES | | | |
| Waste Class: | | 211 | | | |
| Waste Class Desc: | | AROMATIC SOLVENTS | | | |
| Waste Class: | | 252 | | | |
| Waste Class Desc: | | WASTE OILS & LUBRICANTS | | | |

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|--------------------------|---|----------|--------------|---|-------------|
| 12 | 10 of 16 | NNW/69.6 | 209.3 / 0.44 | PILEN CONSTRUCTION OF CANADA LIMITED 22 CADETTA ROAD BRAMPTON ON L6P0X4 | GEN |
| Generator No: | ON0140700 | | | PO Box No: | |
| Status: | | | | Country: | Canada |
| Approval Years: | 2016 | | | Choice of Contact: | CO_OFFICIAL |
| Contam. Facility: | No | | | Co Admin: | |
| MHSW Facility: | No | | | Phone No Admin: | |
| SIC Code: | 532410 | | | | |
| SIC Description: | CONSTRUCTION, TRANSPORTATION, MINING, AND FORESTRY MACHINERY AND EQUIPMENT RENTAL AND LEASING | | | | |

| | | | | | |
|--------------------------|--|-------------------------|--|--|--|
| <u>Detail(s)</u> | | | | | |
| Waste Class: | | 252 | | | |
| Waste Class Desc: | | WASTE OILS & LUBRICANTS | | | |
| Waste Class: | | 211 | | | |
| Waste Class Desc: | | AROMATIC SOLVENTS | | | |
| Waste Class: | | 221 | | | |
| Waste Class Desc: | | LIGHT FUELS | | | |
| Waste Class: | | 213 | | | |
| Waste Class Desc: | | PETROLEUM DISTILLATES | | | |
| Waste Class: | | 251 | | | |
| Waste Class Desc: | | OIL SKIMMINGS & SLUDGES | | | |

| | | | | | |
|--------------------------|---|----------|--------------|--|-----|
| 12 | 11 of 16 | NNW/69.6 | 209.3 / 0.44 | PILEN CONSTRUCTION OF CANADA LIMITED 22 CADETTA ROAD BRAMPTON ON | GEN |
| Generator No: | ON0140700 | | | PO Box No: | |
| Status: | | | | Country: | |
| Approval Years: | 2013 | | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | 532410 | | | | |
| SIC Description: | CONSTRUCTION, TRANSPORTATION, MINING, AND FORESTRY MACHINERY AND EQUIPMENT RENTAL AND LEASING | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--------------------------|-------------------|----------------------------|------------------|------|----|
| <u>Detail(s)</u> | | | | | |
| Waste Class: | | 213 | | | |
| Waste Class Desc: | | PETROLEUM DISTILLATES | | | |
| Waste Class: | | 221 | | | |
| Waste Class Desc: | | LIGHT FUELS | | | |
| Waste Class: | | 211 | | | |
| Waste Class Desc: | | AROMATIC SOLVENTS | | | |
| Waste Class: | | 252 | | | |
| Waste Class Desc: | | WASTE OILS & LUBRICANTS | | | |
| Waste Class: | | 251 | | | |
| Waste Class Desc: | | OIL SKIMMINGS & SLUDGES | | | |

| | | | | | |
|--------------------------|--|----------|--------------|--|-----|
| 12 | 12 of 16 | NNW/69.6 | 209.3 / 0.44 | PILEN CONSTRUCTION OF CANADA LIMITED 22 CADETTA ROAD BRAMPTON ON L6P 0X4 | GEN |
| Generator No: | ON0140700 | | | PO Box No: | |
| Status: | | | | Country: | |
| Approval Years: | 2009 | | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | 532410 | | | | |
| SIC Description: | Construction Transportation Mining and Forestry Machinery and Equipment Rental and Leasing | | | | |

| | | | | | |
|--------------------------|--|-------------------------|--|--|--|
| <u>Detail(s)</u> | | | | | |
| Waste Class: | | 211 | | | |
| Waste Class Desc: | | AROMATIC SOLVENTS | | | |
| Waste Class: | | 213 | | | |
| Waste Class Desc: | | PETROLEUM DISTILLATES | | | |
| Waste Class: | | 251 | | | |
| Waste Class Desc: | | OIL SKIMMINGS & SLUDGES | | | |
| Waste Class: | | 252 | | | |
| Waste Class Desc: | | WASTE OILS & LUBRICANTS | | | |

| | | | | | |
|--------------------------|---|----------|--------------|---|-------------|
| 12 | 13 of 16 | NNW/69.6 | 209.3 / 0.44 | PILEN CONSTRUCTION OF CANADA LIMITED 22 CADETTA ROAD BRAMPTON ON L6P0X4 | GEN |
| Generator No: | ON0140700 | | | PO Box No: | |
| Status: | | | | Country: | Canada |
| Approval Years: | 2014 | | | Choice of Contact: | CO_OFFICIAL |
| Contam. Facility: | No | | | Co Admin: | |
| MHSW Facility: | No | | | Phone No Admin: | |
| SIC Code: | 532410 | | | | |
| SIC Description: | CONSTRUCTION, TRANSPORTATION, MINING, AND FORESTRY MACHINERY AND EQUIPMENT RENTAL AND LEASING | | | | |

| | | | | | |
|--------------------------|--|-------------------------|--|--|--|
| <u>Detail(s)</u> | | | | | |
| Waste Class: | | 213 | | | |
| Waste Class Desc: | | PETROLEUM DISTILLATES | | | |
| Waste Class: | | 251 | | | |
| Waste Class Desc: | | OIL SKIMMINGS & SLUDGES | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--------------------------|--|--------------------------------------|------------------|--|--------|
| Waste Class: | | 252 | | | |
| Waste Class Desc: | | WASTE OILS & LUBRICANTS | | | |
| Waste Class: | | 221 | | | |
| Waste Class Desc: | | LIGHT FUELS | | | |
| Waste Class: | | 211 | | | |
| Waste Class Desc: | | AROMATIC SOLVENTS | | | |
| 12 | 14 of 16 | NNW/69.6 | 209.3 / 0.44 | PILEN CONSTRUCTION OF CANADA LIMITED 22 CADETTA ROAD BRAMPTON ON L6P 0X4 | GEN |
| Generator No: | ON0140700 | | | PO Box No: | |
| Status: | | | | Country: | |
| Approval Years: | 2010 | | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | 532410 | | | | |
| SIC Description: | Construction Transportation Mining and Forestry Machinery and Equipment Rental and Leasing | | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | | 251 | | | |
| Waste Class Desc: | | OIL SKIMMINGS & SLUDGES | | | |
| Waste Class: | | 213 | | | |
| Waste Class Desc: | | PETROLEUM DISTILLATES | | | |
| Waste Class: | | 252 | | | |
| Waste Class Desc: | | WASTE OILS & LUBRICANTS | | | |
| Waste Class: | | 211 | | | |
| Waste Class Desc: | | AROMATIC SOLVENTS | | | |
| 12 | 15 of 16 | NNW/69.6 | 209.3 / 0.44 | PILEN CONSTRUCTION OF CANADA LIMITED 22 CADETTA ROAD BRAMPTON ON L6P0X4 | GEN |
| Generator No: | ON0140700 | | | 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: | | | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | | 211 H | | | |
| Waste Class Desc: | | Aromatic solvents and residues | | | |
| Waste Class: | | 213 T | | | |
| Waste Class Desc: | | Petroleum distillates | | | |
| Waste Class: | | 221 I | | | |
| Waste Class Desc: | | Light fuels | | | |
| Waste Class: | | 251 L | | | |
| Waste Class Desc: | | Waste oils/sludges (petroleum based) | | | |
| Waste Class: | | 252 L | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|-----------------------------|-------------------|--|----------------------|--|------------|
| Waste Class Desc: | | Waste crankcase oils and lubricants | | | |
| Waste Class: | | 252 T | | | |
| Waste Class Desc: | | Waste crankcase oils and lubricants | | | |
| 12 | 16 of 16 | NNW/69.6 | 209.3 / 0.44 | PILEN CONST OF CANADA INC 22 CADETTA RD RR 9 BRAMPTON ON L6T3Z8 | PRT |
| Location ID: | | 19315 | | | |
| Type: | | retail | | | |
| Expiry Date: | | 1993-01-31 | | | |
| Capacity (L): | | 2000 | | | |
| Licence #: | | 0076350479 | | | |
| 13 | 1 of 40 | NW/79.1 | 207.1 / -1.79 | TRISTAR COATINGS, DIV. OF TREBOR IND. 18 CADETTA RD., LOT 8/CON.II BRAMPTON CITY ON L6T 3Z8 | CA |
| Certificate #: | | 8-3399-95-006 | | | |
| Application Year: | | 95 | | | |
| Issue Date: | | 11/24/95 | | | |
| Approval Type: | | Industrial air | | | |
| Status: | | Approved | | | |
| Application Type: | | | | | |
| Client Name: | | | | | |
| Client Address: | | | | | |
| Client City: | | | | | |
| Client Postal Code: | | | | | |
| Project Description: | | LIQUID PAINT COATING/BATCHING/MIX PROC. | | | |
| Contaminants: | | Suspended Particulate Matter, Methyl Ethyl Ketone (Butanone), Toluene(Pentyl Methane)(Methyl Benzene), Other Organic Compounds | | | |
| Emission Control: | | Panel Filter, Baghouse (Incl Vent Fil.) | | | |
| 13 | 2 of 40 | NW/79.1 | 207.1 / -1.79 | TRISTAR COATINGS LTD 18 Cadetta Road BRAMPTON ON L6P 0X4 | GEN |
| Generator No: | | ON1055700 | | PO Box No: | |
| Status: | | Registered | | Country: Canada | |
| Approval Years: | | As of Mar 2019 | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | | | | | |
| SIC Description: | | | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | | 145 T | | | |
| Waste Class Desc: | | Wastes from the use of pigments, coatings and paints | | | |
| Waste Class: | | 211 H | | | |
| Waste Class Desc: | | Aromatic solvents and residues | | | |
| Waste Class: | | 252 L | | | |
| Waste Class Desc: | | Waste crankcase oils and lubricants | | | |
| Waste Class: | | 145 L | | | |
| Waste Class Desc: | | Wastes from the use of pigments, coatings and paints | | | |
| Waste Class: | | 232 H | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--------------------------|-------------------|--|------------------|---|-----|
| Waste Class Desc: | | Polymeric resins | | | |
| Waste Class: | | 145 H | | | |
| Waste Class Desc: | | Wastes from the use of pigments, coatings and paints | | | |
| Waste Class: | | 212 H | | | |
| Waste Class Desc: | | Aliphatic solvents and residues | | | |
| 13 | 3 of 40 | NW/79.1 | 207.1 / -1.79 | TRISTAR COATINGS LTD TRISTAR COATINGS LTD 18 CADETTA ROAD, R.R. #9 BRAMPTON ON L6P 0X4 | GEN |
| Generator No: | | ON1055700 | | PO Box No: | |
| Status: | | | | Country: | |
| Approval Years: | | 05,06,07,08 | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | | 325510 | | | |
| SIC Description: | | Paint and Coating Manufacturing | | | |
| Detail(s) | | | | | |
| Waste Class: | | 145 | | | |
| Waste Class Desc: | | PAINT/PIGMENT/COATING RESIDUES | | | |
| Waste Class: | | 212 | | | |
| Waste Class Desc: | | ALIPHATIC SOLVENTS | | | |
| Waste Class: | | 232 | | | |
| Waste Class Desc: | | POLYMERIC RESINS | | | |
| Waste Class: | | 252 | | | |
| Waste Class Desc: | | WASTE OILS & LUBRICANTS | | | |
| Waste Class: | | 211 | | | |
| Waste Class Desc: | | AROMATIC SOLVENTS | | | |
| 13 | 4 of 40 | NW/79.1 | 207.1 / -1.79 | TRISTAR COATINGS LTD 18 Cadetta Road BRAMPTON ON L6P 0X4 | GEN |
| Generator No: | | ON1055700 | | PO Box No: | |
| Status: | | | | Country: | |
| Approval Years: | | 2016 | | Choice of Contact: | |
| Contam. Facility: | | No | | Co Admin: | |
| MHSW Facility: | | No | | Phone No Admin: | |
| SIC Code: | | 325510 | | | |
| SIC Description: | | PAINT AND COATING MANUFACTURING | | | |
| Detail(s) | | | | | |
| Waste Class: | | 252 | | | |
| Waste Class Desc: | | WASTE OILS & LUBRICANTS | | | |
| Waste Class: | | 211 | | | |
| Waste Class Desc: | | AROMATIC SOLVENTS | | | |
| Waste Class: | | 212 | | | |
| Waste Class Desc: | | ALIPHATIC SOLVENTS | | | |
| Waste Class: | | 232 | | | |
| Waste Class Desc: | | POLYMERIC RESINS | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--------------------------|----------------------|--------------------------------|------------------|---|-----|
| Waste Class: | | 145 | | | |
| Waste Class Desc: | | PAINT/PIGMENT/COATING RESIDUES | | | |
| 13 | 5 of 40 | NW/79.1 | 207.1 / -1.79 | TRISTAR COATINGS LTD 18 CADETTA ROAD BRAMPTON ON L6T 3Z8 | GEN |
| Generator No: | ON1055700 | | | PO Box No: | |
| Status: | | | | Country: | |
| Approval Years: | 02,03,04 | | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | | | | | |
| SIC Description: | | | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | | 145 | | | |
| Waste Class Desc: | | PAINT/PIGMENT/COATING RESIDUES | | | |
| Waste Class: | | 211 | | | |
| Waste Class Desc: | | AROMATIC SOLVENTS | | | |
| Waste Class: | | 212 | | | |
| Waste Class Desc: | | ALIPHATIC SOLVENTS | | | |
| Waste Class: | | 252 | | | |
| Waste Class Desc: | | WASTE OILS & LUBRICANTS | | | |
| 13 | 6 of 40 | NW/79.1 | 207.1 / -1.79 | TRISTAR COATINGS DIVISION 18 CADETTA ROAD BRAMPTON ON L6T 3Z8 | GEN |
| Generator No: | ON1055700 | | | PO Box No: | |
| Status: | | | | Country: | |
| Approval Years: | 97,98,99,00,01 | | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | 3751 | | | | |
| SIC Description: | PAINT & VARNISH IND. | | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | | 211 | | | |
| Waste Class Desc: | | AROMATIC SOLVENTS | | | |
| Waste Class: | | 145 | | | |
| Waste Class Desc: | | PAINT/PIGMENT/COATING RESIDUES | | | |
| Waste Class: | | 212 | | | |
| Waste Class Desc: | | ALIPHATIC SOLVENTS | | | |
| Waste Class: | | 252 | | | |
| Waste Class Desc: | | WASTE OILS & LUBRICANTS | | | |
| 13 | 7 of 40 | NW/79.1 | 207.1 / -1.79 | TRISTAR COATINGS LTD TRISTAR COATINGS LTD 18 CADETTA ROAD, R.R. #9 BRAMPTON ON L6P 0X4 | GEN |
| Generator No: | ON1055700 | | | PO Box No: | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--|-------------------|--------------------------------|------------------|---|-----|
| Status: Approval Years: 2009 Contam. Facility: MHSW Facility: SIC Code: 325510 SIC Description: Paint and Coating Manufacturing | | | | Country: Choice of Contact: Co Admin: Phone No Admin: | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | | 145 | | | |
| Waste Class Desc: | | PAINT/PIGMENT/COATING RESIDUES | | | |
| Waste Class: | | 211 | | | |
| Waste Class Desc: | | AROMATIC SOLVENTS | | | |
| Waste Class: | | 212 | | | |
| Waste Class Desc: | | ALIPHATIC SOLVENTS | | | |
| Waste Class: | | 232 | | | |
| Waste Class Desc: | | POLYMERIC RESINS | | | |
| Waste Class: | | 252 | | | |
| Waste Class Desc: | | WASTE OILS & LUBRICANTS | | | |
| 13 | 8 of 40 | NW/79.1 | 207.1 / -1.79 | TRISTAR COATINGS LTD TRISTAR COATINGS LTD 18 CADETTA ROAD, BRAMPTON ON L6P 0X4 | GEN |
| Generator No: ON1055700 Status: Approval Years: 2011 Contam. Facility: MHSW Facility: SIC Code: 325510 SIC Description: Paint and Coating Manufacturing | | | | PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin: | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | | 252 | | | |
| Waste Class Desc: | | WASTE OILS & LUBRICANTS | | | |
| Waste Class: | | 145 | | | |
| Waste Class Desc: | | PAINT/PIGMENT/COATING RESIDUES | | | |
| Waste Class: | | 232 | | | |
| Waste Class Desc: | | POLYMERIC RESINS | | | |
| Waste Class: | | 211 | | | |
| Waste Class Desc: | | AROMATIC SOLVENTS | | | |
| Waste Class: | | 212 | | | |
| Waste Class Desc: | | ALIPHATIC SOLVENTS | | | |
| 13 | 9 of 40 | NW/79.1 | 207.1 / -1.79 | TRISTAR COATINGS LTD TRISTAR COATINGS LTD 18 CADETTA ROAD, BRAMPTON ON L6P 0X4 | GEN |
| Generator No: ON1055700 Status: Approval Years: 2012 Contam. Facility: MHSW Facility: SIC Code: 325510 | | | | PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin: | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--------------------------|-------------------|---------------------------------|------------------|------|----|
| SIC Description: | | Paint and Coating Manufacturing | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | | 232 | | | |
| Waste Class Desc: | | POLYMERIC RESINS | | | |
| Waste Class: | | 145 | | | |
| Waste Class Desc: | | PAINT/PIGMENT/COATING RESIDUES | | | |
| Waste Class: | | 252 | | | |
| Waste Class Desc: | | WASTE OILS & LUBRICANTS | | | |
| Waste Class: | | 211 | | | |
| Waste Class Desc: | | AROMATIC SOLVENTS | | | |
| Waste Class: | | 212 | | | |
| Waste Class Desc: | | ALIPHATIC SOLVENTS | | | |

| | | | | | |
|--------------------------|---------------------------------|--------------------------------|---------------|--|---------------------|
| 13 | 10 of 40 | NW/79.1 | 207.1 / -1.79 | TRISTAR COATINGS LTD TRISTAR COATINGS LTD 18 CADETTA ROAD, BRAMPTON ON L6P 0X4 | GEN |
| Generator No: | ON1055700 | | | PO Box No: | |
| Status: | | | | Country: | Canada |
| Approval Years: | 2014 | | | Choice of Contact: | CO_OFFICIAL |
| Contam. Facility: | No | | | Co Admin: | Svetlana Melkova |
| MHSW Facility: | No | | | Phone No Admin: | 905-794-1100 Ext.21 |
| SIC Code: | 325510 | | | | |
| SIC Description: | PAINT AND COATING MANUFACTURING | | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | | 252 | | | |
| Waste Class Desc: | | WASTE OILS & LUBRICANTS | | | |
| Waste Class: | | 232 | | | |
| Waste Class Desc: | | POLYMERIC RESINS | | | |
| Waste Class: | | 211 | | | |
| Waste Class Desc: | | AROMATIC SOLVENTS | | | |
| Waste Class: | | 212 | | | |
| Waste Class Desc: | | ALIPHATIC SOLVENTS | | | |
| Waste Class: | | 145 | | | |
| Waste Class Desc: | | PAINT/PIGMENT/COATING RESIDUES | | | |

| | | | | | |
|--------------------------|---------------------------------|---------|---------------|--|-----|
| 13 | 11 of 40 | NW/79.1 | 207.1 / -1.79 | TRISTAR COATINGS LTD TRISTAR COATINGS LTD 18 CADETTA ROAD, BRAMPTON ON | GEN |
| Generator No: | ON1055700 | | | PO Box No: | |
| Status: | | | | Country: | |
| Approval Years: | 2013 | | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | 325510 | | | | |
| SIC Description: | PAINT AND COATING MANUFACTURING | | | | |
| <u>Detail(s)</u> | | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--------------------------|-------------------|--------------------------------|------------------|------|----|
| Waste Class: | | 252 | | | |
| Waste Class Desc: | | WASTE OILS & LUBRICANTS | | | |
| Waste Class: | | 232 | | | |
| Waste Class Desc: | | POLYMERIC RESINS | | | |
| Waste Class: | | 212 | | | |
| Waste Class Desc: | | ALIPHATIC SOLVENTS | | | |
| Waste Class: | | 145 | | | |
| Waste Class Desc: | | PAINT/PIGMENT/COATING RESIDUES | | | |
| Waste Class: | | 211 | | | |
| Waste Class Desc: | | AROMATIC SOLVENTS | | | |

| | | | | | |
|--------------------------|---------------------------------|--------------------------------|---------------|---|-----|
| 13 | 12 of 40 | NW/79.1 | 207.1 / -1.79 | TRISTAR COATINGS LTD TRISTAR COATINGS LTD 18 CADETTA ROAD, R.R. #9 BRAMPTON ON L6P 0X4 | GEN |
| Generator No: | ON1055700 | | | PO Box No: | |
| Status: | | | | Country: | |
| Approval Years: | 2010 | | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | 325510 | | | | |
| SIC Description: | Paint and Coating Manufacturing | | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | | 145 | | | |
| Waste Class Desc: | | PAINT/PIGMENT/COATING RESIDUES | | | |
| Waste Class: | | 212 | | | |
| Waste Class Desc: | | ALIPHATIC SOLVENTS | | | |
| Waste Class: | | 211 | | | |
| Waste Class Desc: | | AROMATIC SOLVENTS | | | |
| Waste Class: | | 252 | | | |
| Waste Class Desc: | | WASTE OILS & LUBRICANTS | | | |
| Waste Class: | | 232 | | | |
| Waste Class Desc: | | POLYMERIC RESINS | | | |

| | | | | | |
|--------------------------|---------------------------------|--------------------------------|---------------|--|---------------------|
| 13 | 13 of 40 | NW/79.1 | 207.1 / -1.79 | TRISTAR COATINGS LTD 18 Cadetta Road BRAMPTON ON L6P 0X4 | GEN |
| Generator No: | ON1055700 | | | PO Box No: | |
| Status: | | | | Country: | Canada |
| Approval Years: | 2015 | | | Choice of Contact: | CO_OFFICIAL |
| Contam. Facility: | No | | | Co Admin: | Svetlana Melkova |
| MHSW Facility: | No | | | Phone No Admin: | 905-794-1100 Ext.21 |
| SIC Code: | 325510 | | | | |
| SIC Description: | PAINT AND COATING MANUFACTURING | | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | | 145 | | | |
| Waste Class Desc: | | PAINT/PIGMENT/COATING RESIDUES | | | |
| Waste Class: | | 252 | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--------------------------|-------------------|----------------------------|------------------|------|----|
| Waste Class Desc: | | WASTE OILS & LUBRICANTS | | | |
| Waste Class: | | 232 | | | |
| Waste Class Desc: | | POLYMERIC RESINS | | | |
| Waste Class: | | 212 | | | |
| Waste Class Desc: | | ALIPHATIC SOLVENTS | | | |
| Waste Class: | | 211 | | | |
| Waste Class Desc: | | AROMATIC SOLVENTS | | | |

| | | | | | |
|--------------------------|--------------------------------|---------|---------------|---|-----|
| 13 | 14 of 40 | NW/79.1 | 207.1 / -1.79 | TRISTAR COATINGS DIVISION OF TREBOR 18 CADETTA RD. R.R.#9 BRAMPTON ON L6T 3Z8 | GEN |
| Generator No: | ON1055700 | | | PO Box No: | |
| Status: | | | | Country: | |
| Approval Years: | 88,89,90 | | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | 3751 | | | | |
| SIC Description: | PAINT & VARNISH IND. | | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | 145 | | | | |
| Waste Class Desc: | PAINT/PIGMENT/COATING RESIDUES | | | | |
| Waste Class: | 212 | | | | |
| Waste Class Desc: | ALIPHATIC SOLVENTS | | | | |

| | | | | | |
|--------------------------|--|---------|---------------|--|--------|
| 13 | 15 of 40 | NW/79.1 | 207.1 / -1.79 | TRISTAR COATINGS LTD 18 Cadetta Road BRAMPTON ON L6P 0X4 | GEN |
| Generator No: | ON1055700 | | | 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: | | | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | 145 H | | | | |
| 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: | 145 T | | | | |
| Waste Class Desc: | Wastes from the use of pigments, coatings and paints | | | | |
| Waste Class: | 211 H | | | | |
| Waste Class Desc: | Aromatic solvents and residues | | | | |
| Waste Class: | 212 H | | | | |
| Waste Class Desc: | Aliphatic solvents and residues | | | | |
| Waste Class: | 232 H | | | | |
| Waste Class Desc: | Polymeric resins | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|-------------------------------------|--------------------------------|-------------------------------------|------------------|--|--------------------------|
| Waste Class: | | 252 L | | | |
| Waste Class Desc: | | Waste crankcase oils and lubricants | | | |
| 13 | 16 of 40 | NW/79.1 | 207.1 / -1.79 | TRISTAR COATINGS DIVISION 38-534 18 CADETTA ROAD BRAMPTON ON L6T 3Z8 | GEN |
| Generator No: | ON1055700 | | | PO Box No: | |
| Status: | | | | Country: | |
| Approval Years: | 92,93,94,95,96 | | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | 3751 | | | | |
| SIC Description: | PAINT & VARNISH IND. | | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | 145 | | | | |
| Waste Class Desc: | PAINT/PIGMENT/COATING RESIDUES | | | | |
| Waste Class: | 211 | | | | |
| Waste Class Desc: | AROMATIC SOLVENTS | | | | |
| Waste Class: | 212 | | | | |
| Waste Class Desc: | ALIPHATIC SOLVENTS | | | | |
| Waste Class: | 252 | | | | |
| Waste Class Desc: | WASTE OILS & LUBRICANTS | | | | |
| 13 | 17 of 40 | NW/79.1 | 207.1 / -1.79 | TRISTAR COATINGS LTD. 18 CADETTA ROAD NOT AVAILABLE BRAMPTON ON L6P0X4 | NPRI |
| NPRI ID: | 4425 | | | Org ID: | 103016 |
| Other ID: | | | | Submit Date: | 5/19/2015 |
| No Other ID: | | | | Last Modified: | 6/10/2015 10:59:04 AM |
| Track ID: | 127396 | | | Contact ID: | 230549 |
| Report ID: | 51492 | | | Cont Type: | MEM |
| Report Type: | NPRI | | | Contact Title: | |
| Rpt Type ID: | 1 | | | Cont First Name: | BRIAN |
| Report Year: | 2014 | | | Cont Last Name: | WHISTON |
| Not-Current Rpt?: | No | | | Contact Position: | PRESIDENT |
| Yr of Last Filed Rpt: | 2014 | | | Contact Fax: | |
| Fac ID: | 224562 | | | Contact Ph.: | 9057941100 |
| Fac Name: | TRISTAR COATINGS LTD. | | | Cont Area Code: | 905 |
| Fac Address1: | 18 CADETTA ROAD | | | Contact Tel.: | 57941100 |
| Fac Address2: | NOT AVAILABLE | | | Contact Ext.: | 16 |
| Fac Postal Zip: | L6P0X4 | | | Cont Fax Area Cde: | |
| Facility Lat: | 43.8144 | | | Contact Fax: | |
| Facility Long: | -79.6805 | | | Contact Email: | BRIAN@TRISTARCOATINGS.CA |
| DLS (Last Filed Rpt): | | | | Latitude: | 43.8144 |
| Facility DLS: | | | | Longitude: | -79.6805 |
| Datum: | 1983 | | | UTM Zone: | |
| Facility Cmnts: | | | | UTM Northing: | |
| URL: | www.tristarcoatings.ca | | | UTM Easting: | |
| No of Empl.: | 20 | | | 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: | | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--|---|----------------------------|------------------|---|-------|
| SIC Code Description: | | | | | |
| American SIC Code: | | | | | |
| NAICS Code (2 digit): | 32 | | | | |
| NAICS 2 Description: | Manufacturing | | | | |
| NAICS Code (4 digit): | 3255 | | | | |
| NAICS 4 Description: | Paint, coating and adhesive manufacturing | | | | |
| NAICS Code (6 digit): | 325510 | | | | |
| NAICS 6 Description: | Paint and coating manufacturing | | | | |
| <u>Substance Release Report</u> | | | | | |
| Category Type ID: | 13 | | | | |
| Category Type Desc: | All Media | | | | |
| Category Type Desc (fr): | Rejets à tous les médias | | | | |
| Grouping: | Total All Media<1t | | | | |
| Trans Code: | | | | | |
| Chem: | Toluene | | | | |
| Chem (fr): | Toluène | | | | |
| Quantity: | .417 | | | | |
| Unit: | tonnes | | | | |
| Basis of Estimate Cd: | O | | | | |
| Basis of Estimate Desc: | O- Engineering Estimates | | | | |
| Category Type ID: | 13 | | | | |
| Category Type Desc: | All Media | | | | |
| Category Type Desc (fr): | Rejets à tous les médias | | | | |
| Grouping: | Total All Media<1t | | | | |
| Trans Code: | | | | | |
| Chem: | Xylene (all isomers) | | | | |
| Chem (fr): | Xylène (tous les isomères) | | | | |
| Quantity: | .624 | | | | |
| Unit: | tonnes | | | | |
| Basis of Estimate Cd: | O | | | | |
| Basis of Estimate Desc: | O- Engineering Estimates | | | | |
| Category Type ID: | 13 | | | | |
| Category Type Desc: | All Media | | | | |
| Category Type Desc (fr): | Rejets à tous les médias | | | | |
| Grouping: | Total All Media<1t | | | | |
| Trans Code: | | | | | |
| Chem: | Isopropyl alcohol | | | | |
| Chem (fr): | Alcool iso-propylique | | | | |
| Quantity: | .084 | | | | |
| Unit: | tonnes | | | | |
| Basis of Estimate Cd: | O | | | | |
| Basis of Estimate Desc: | O- Engineering Estimates | | | | |
| Category Type ID: | 13 | | | | |
| Category Type Desc: | All Media | | | | |
| Category Type Desc (fr): | Rejets à tous les médias | | | | |
| Grouping: | Total All Media<1t | | | | |
| Trans Code: | | | | | |
| Chem: | Methyl ethyl ketone | | | | |
| Chem (fr): | Méthyléthylcétone | | | | |
| Quantity: | .25 | | | | |
| Unit: | tonnes | | | | |
| Basis of Estimate Cd: | O | | | | |
| Basis of Estimate Desc: | O- Engineering Estimates | | | | |
| 13 | 18 of 40 | NW/79.1 | 207.1 / -1.79 | TRISTAR COATINGS LTD 18 CADETTA ROAD NOT AVAILABLE BRAMPTON ON L6P0X4 | NPRI |
| NPRI ID: | 4425 | | | Org ID: | 70696 |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|-------------------------------------|---|-------------------------|---------------|---------------------------|------------------------|
| Other ID: | N | | | Submit Date: | 6/1/2006 |
| No Other ID: | | | | Last Modified: | 5/29/2015 3:28:24 PM |
| Track ID: | 40820 | | | Contact ID: | 188563 |
| Report ID: | 101204 | | | Cont Type: | MED |
| Report Type: | NPRI | | | Contact Title: | |
| Rpt Type ID: | 1 | | | Cont First Name: | MICHAEL |
| Report Year: | 2005 | | | Cont Last Name: | SHILLUM |
| Not-Current Rpt?: | No | | | Contact Position: | GENERAL MANAGER |
| Yr of Last Filed Rpt: | 2014 | | | Contact Fax: | 9057940304 |
| Fac ID: | 224562 | | | Contact Ph.: | 9057941100 |
| Fac Name: | TRISTAR COATINGS LTD. | | | Cont Area Code: | 905 |
| Fac Address1: | 18 CADETTA ROAD | | | Contact Tel.: | 57941100 |
| Fac Address2: | NOT AVAILABLE | | | Contact Ext.: | 19 |
| Fac Postal Zip: | L6P0X4 | | | Cont Fax Area Cde: | 905 |
| Facility Lat: | 43.8144 | | | Contact Fax: | 57940304 |
| Facility Long: | -79.6805 | | | Contact Email: | RMS@TRISTARCOATINGS.CA |
| DLS (Last Filed Rpt): | | | | Latitude: | 43.8144 |
| Facility DLS: | | | | Longitude: | -79.6805 |
| Datum: | 1983 | | | UTM Zone: | |
| Facility Cmnts: | False | | | UTM Northing: | |
| URL: | www.tristarcoating.ca | | | UTM Easting: | |
| No of Empl.: | 19 | | | Waste Streams: | False |
| Parent Co.: | N | | | No Streams: | |
| No Parent Co.: | | | | Waste Off Sites: | Fals |
| Pollut Prev Cmnts: | False | | | No Off Sites: | 1.00 |
| Stacks: | False | | | 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): | 32 | | | | |
| NAICS 2 Description: | Manufacturing | | | | |
| NAICS Code (4 digit): | 3255 | | | | |
| NAICS 4 Description: | Paint, coating and adhesive manufacturing | | | | |
| NAICS Code (6 digit): | 325510 | | | | |
| NAICS 6 Description: | Paint and coating manufacturing | | | | |

Substance Release Report

Category Type ID: 3
Category Type Desc: Fugitive
Category Type Desc (fr): Émissions fugitives
Grouping: Total Air
Trans Code: VOCs
Chem: Xylene (all isomers)
Chem (fr): Xylène (tous les isomères)
Quantity: 5.8
Unit: tonnes
Basis of Estimate Cd: O
Basis of Estimate Desc: O- Engineering Estimates

Category Type ID: 13
Category Type Desc: All Media
Category Type Desc (fr): Rejets à tous les médias
Grouping: Total All Media<1t
Trans Code:
Chem: MSG#2 - Hydrotreated light distillate
Chem (fr): EMG#2 - Distillat léger hydrotraité
Quantity: .488
Unit: tonnes
Basis of Estimate Cd:
Basis of Estimate Desc:

Category Type ID: 13

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|---------------------------------|--------------------------|--|--------------------------|-------------|-----------|
| Category Type Desc: | | All Media | | | |
| Category Type Desc (fr): | | Rejets à tous les médias | | | |
| Grouping: | | Total All Media<1t | | | |
| Trans Code: | | | | | |
| Chem: | | MSG#1 - Solvent naphtha medium aliphatic | | | |
| Chem (fr): | | EMG#1 - Solvant naphta aliphatique moyen | | | |
| Quantity: | | .004 | | | |
| Unit: | | tonnes | | | |
| Basis of Estimate Cd: | | | | | |
| Basis of Estimate Desc: | | | | | |
| Category Type ID: | | 13 | | | |
| Category Type Desc: | | All Media | | | |
| Category Type Desc (fr): | | Rejets à tous les médias | | | |
| Grouping: | | Total All Media<1t | | | |
| Trans Code: | | | | | |
| Chem: | | Toluene | | | |
| Chem (fr): | | Toluène | | | |
| Quantity: | | .978 | | | |
| Unit: | | tonnes | | | |
| Basis of Estimate Cd: | | | | | |
| Basis of Estimate Desc: | | | | | |
| Category Type ID: | | 13 | | | |
| Category Type Desc: | | All Media | | | |
| Category Type Desc (fr): | | Rejets à tous les médias | | | |
| Grouping: | | Total All Media<1t | | | |
| Trans Code: | | | | | |
| Chem: | | Acetone | | | |
| Chem (fr): | | Acétone | | | |
| Quantity: | | .002 | | | |
| Unit: | | tonnes | | | |
| Basis of Estimate Cd: | | | | | |
| Basis of Estimate Desc: | | | | | |
| Category Type ID: | | 13 | | | |
| Category Type Desc: | | All Media | | | |
| Category Type Desc (fr): | | Rejets à tous les médias | | | |
| Grouping: | | Total All Media<1t | | | |
| Trans Code: | | | | | |
| Chem: | | GE - Diethylene glycol butyl ether (DEGBE) | | | |
| Chem (fr): | | EG - Éther butylique de diéthylèneglycol (DEGBE) | | | |
| Quantity: | | .096 | | | |
| Unit: | | tonnes | | | |
| Basis of Estimate Cd: | | | | | |
| Basis of Estimate Desc: | | | | | |
| Category Type ID: | | 13 | | | |
| Category Type Desc: | | All Media | | | |
| Category Type Desc (fr): | | Rejets à tous les médias | | | |
| Grouping: | | Total All Media<1t | | | |
| Trans Code: | | | | | |
| Chem: | | Ethyl acetate | | | |
| Chem (fr): | | Acétate d'éthyle | | | |
| Quantity: | | .14 | | | |
| Unit: | | tonnes | | | |
| Basis of Estimate Cd: | | | | | |
| Basis of Estimate Desc: | | | | | |
| Category Type ID: | | 13 | | | |
| Category Type Desc: | | All Media | | | |
| Category Type Desc (fr): | | Rejets à tous les médias | | | |
| Grouping: | | Total All Media<1t | | | |
| Trans Code: | | | | | |
| Chem: | | MSG#1 - Solvent naphtha light aliphatic | | | |
| Chem (fr): | | EMG#1 - Solvant naphta aliphatique léger | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|---------------------------------|-------------------|--|------------------|------|----|
| Quantity: | | .001 | | | |
| Unit: | | tonnes | | | |
| Basis of Estimate Cd: | | | | | |
| Basis of Estimate Desc: | | | | | |
| Category Type ID: | | 13 | | | |
| Category Type Desc: | | All Media | | | |
| Category Type Desc (fr): | | Rejets à tous les médias | | | |
| Grouping: | | Total All Media<1t | | | |
| Trans Code: | | | | | |
| Chem: | | GE - Propylene glycol methyl ether acetate (PGMEA) | | | |
| Chem (fr): | | EG - Acétate d'éther méthylique de propylèneglycol (PGMEA) | | | |
| Quantity: | | .185 | | | |
| Unit: | | tonnes | | | |
| Basis of Estimate Cd: | | | | | |
| Basis of Estimate Desc: | | | | | |
| Category Type ID: | | 3 | | | |
| Category Type Desc: | | Fugitive | | | |
| Category Type Desc (fr): | | Émissions fugitives | | | |
| Grouping: | | Total Air | | | |
| Trans Code: | | VOCs | | | |
| Chem: | | Methyl ethyl ketone | | | |
| Chem (fr): | | Méthyléthylcétone | | | |
| Quantity: | | 1.44 | | | |
| Unit: | | tonnes | | | |
| Basis of Estimate Cd: | | O | | | |
| Basis of Estimate Desc: | | O- Engineering Estimates | | | |

| | | | | | |
|-------------------------------------|-----------------------|---------|---------------|--|----------------------|
| 13 | 19 of 40 | NW/79.1 | 207.1 / -1.79 | TRISTAR COATINGS LTD. 18 CADETTA ROAD NOT AVAILABLE BRAMPTON ON L6P0X4 | NPRI |
| NPRI ID: | 4425 | | | Org ID: | 103016 |
| Other ID: | | | | Submit Date: | 11/8/2013 |
| No Other ID: | | | | Last Modified: | 5/29/2015 3:28:24 PM |
| Track ID: | 78047 | | | Contact ID: | |
| Report ID: | 25878 | | | Cont Type: | |
| Report Type: | NPRI | | | Contact Title: | |
| Rpt Type ID: | 1 | | | Cont First Name: | |
| Report Year: | 2012 | | | Cont Last Name: | |
| Not-Current Rpt?: | No | | | Contact Position: | |
| Yr of Last Filed Rpt: | 2014 | | | Contact Fax: | |
| Fac ID: | 224562 | | | Contact Ph.: | |
| Fac Name: | TRISTAR COATINGS LTD. | | | Cont Area Code: | |
| Fac Address1: | 18 CADETTA ROAD | | | Contact Tel.: | |
| Fac Address2: | NOT AVAILABLE | | | Contact Ext.: | |
| Fac Postal Zip: | L6P0X4 | | | Cont Fax Area Cde: | |
| Facility Lat: | 43.8144 | | | Contact Fax: | |
| Facility Long: | -79.6805 | | | Contact Email: | |
| DLS (Last Filed Rpt): | | | | Latitude: | 43.8144 |
| Facility DLS: | | | | Longitude: | -79.6805 |
| Datum: | 1983 | | | UTM Zone: | |
| Facility Cmnts: | | | | UTM Northing: | |
| URL: | | | | UTM Easting: | |
| No of Empl.: | 18 | | | 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: | | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--|-------------------|---|------------------|------|----|
| NAICS Code (2 digit): | | 32 | | | |
| NAICS 2 Description: | | Manufacturing | | | |
| NAICS Code (4 digit): | | 3255 | | | |
| NAICS 4 Description: | | Paint, coating and adhesive manufacturing | | | |
| NAICS Code (6 digit): | | 325510 | | | |
| NAICS 6 Description: | | Paint and coating manufacturing | | | |
| <u>Substance Release Report</u> | | | | | |
| Category Type ID: | | 13 | | | |
| Category Type Desc: | | All Media | | | |
| Category Type Desc (fr): | | Rejets à tous les médias | | | |
| Grouping: | | Total All Media<1t | | | |
| Trans Code: | | | | | |
| Chem: | | Methyl ethyl ketone | | | |
| Chem (fr): | | Méthyléthylcétone | | | |
| Quantity: | | .19 | | | |
| Unit: | | tonnes | | | |
| Basis of Estimate Cd: | | O | | | |
| Basis of Estimate Desc: | | O- Engineering Estimates | | | |
| Category Type ID: | | 13 | | | |
| Category Type Desc: | | All Media | | | |
| Category Type Desc (fr): | | Rejets à tous les médias | | | |
| Grouping: | | Total All Media<1t | | | |
| Trans Code: | | | | | |
| Chem: | | Toluene | | | |
| Chem (fr): | | Toluène | | | |
| Quantity: | | .316 | | | |
| Unit: | | tonnes | | | |
| Basis of Estimate Cd: | | O | | | |
| Basis of Estimate Desc: | | O- Engineering Estimates | | | |
| Category Type ID: | | 13 | | | |
| Category Type Desc: | | All Media | | | |
| Category Type Desc (fr): | | Rejets à tous les médias | | | |
| Grouping: | | Total All Media<1t | | | |
| Trans Code: | | | | | |
| Chem: | | Isopropyl alcohol | | | |
| Chem (fr): | | Alcool iso-propylique | | | |
| Quantity: | | .11 | | | |
| Unit: | | tonnes | | | |
| Basis of Estimate Cd: | | O | | | |
| Basis of Estimate Desc: | | O- Engineering Estimates | | | |
| Category Type ID: | | 13 | | | |
| Category Type Desc: | | All Media | | | |
| Category Type Desc (fr): | | Rejets à tous les médias | | | |
| Grouping: | | Total All Media<1t | | | |
| Trans Code: | | | | | |
| Chem: | | Xylene (all isomers) | | | |
| Chem (fr): | | Xylène (tous les isomères) | | | |
| Quantity: | | .522 | | | |
| Unit: | | tonnes | | | |
| Basis of Estimate Cd: | | O | | | |
| Basis of Estimate Desc: | | O- Engineering Estimates | | | |

[13](#)

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NW/79.1

207.1 / -1.79

TRISTAR COATINGS LTD.
18 CADETTA ROAD NOT AVAILABLE
BRAMPTON ON L6T 3Z8

NPRI

NPRI ID: 4425
Other ID: N
No Other ID: 0.00

Org ID: 70697
Submit Date: 5/31/2002
Last Modified: 5/29/2015 3:28:24 PM

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|-------------------------------------|---|----------------------------|------------------|---------------------------|------------------------|
| Track ID: | 12214 | | | Contact ID: | 99359 |
| Report ID: | | | | Cont Type: | MED |
| Report Type: | NPRI | | | Contact Title: | |
| Rpt Type ID: | 1 | | | Cont First Name: | MICHAEL |
| Report Year: | 2001 | | | Cont Last Name: | SHILLUM |
| Not-Current Rpt?: | No | | | Contact Position: | GENERAL MANAGER |
| Yr of Last Filed Rpt: | 2014 | | | Contact Fax: | 9057940304 |
| Fac ID: | 117648 | | | Contact Ph.: | 9057941100 |
| Fac Name: | NOT AVAILABLE | | | Cont Area Code: | 905 |
| Fac Address1: | 18 CADETTA ROAD | | | Contact Tel.: | 57941100 |
| Fac Address2: | NOT AVAILABLE | | | Contact Ext.: | 19 |
| Fac Postal Zip: | L6T 3Z8 | | | Cont Fax Area Cde: | 905 |
| Facility Lat: | | | | Contact Fax: | 57940304 |
| Facility Long: | | | | Contact Email: | RMS@TRISTARCOATINGS.CA |
| DLS (Last Filed Rpt): | | | | Latitude: | 43.8144 |
| Facility DLS: | | | | Longitude: | -79.6805 |
| Datum: | 1983 | | | UTM Zone: | |
| Facility Cmnts: | No | | | UTM Northing: | |
| URL: | www.tristarcoatings.ca | | | UTM Easting: | |
| No of Empl.: | 17 | | | Waste Streams: | No |
| Parent Co.: | * | | | No Streams: | 0.00 |
| No Parent Co.: | 1.00 | | | Waste Off Sites: | Yes |
| Pollut Prev Cmnts: | No | | | No Off Sites: | 1.00 |
| 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): | 32 | | | | |
| NAICS 2 Description: | Manufacturing | | | | |
| NAICS Code (4 digit): | 3255 | | | | |
| NAICS 4 Description: | Paint, coating and adhesive manufacturing | | | | |
| NAICS Code (6 digit): | 325510 | | | | |
| NAICS 6 Description: | Paint and coating manufacturing | | | | |

Substance Release Report

Category Type ID: 3
Category Type Desc: Fugitive
Category Type Desc (fr): Émissions fugitives
Grouping: Total Air
Trans Code: VOCs
Chem: Methyl ethyl ketone
Chem (fr): Méthyléthylcétone
Quantity: .195
Unit: tonnes
Basis of Estimate Cd: O
Basis of Estimate Desc: O- Engineering Estimates

Category Type ID: 3
Category Type Desc: Fugitive
Category Type Desc (fr): Émissions fugitives
Grouping: Total Air
Trans Code: VOCs
Chem: Toluene
Chem (fr): Toluène
Quantity: .115
Unit: tonnes
Basis of Estimate Cd: O
Basis of Estimate Desc: O- Engineering Estimates

Category Type ID: 3
Category Type Desc: Fugitive
Category Type Desc (fr): Émissions fugitives

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|---------------------------------|-------------------|-----------------------------------|------------------|------|----|
| Grouping: | | Total Air | | | |
| Trans Code: | | VOCs | | | |
| Chem: | | Xylene (mixed isomers) | | | |
| Chem (fr): | | Xylène (mélange d'isomères) | | | |
| Quantity: | | .1 | | | |
| Unit: | | tonnes | | | |
| Basis of Estimate Cd: | | O | | | |
| Basis of Estimate Desc: | | O- Engineering Estimates | | | |
| Category Type ID: | | 2 | | | |
| Category Type Desc: | | Storage / Handling | | | |
| Category Type Desc (fr): | | Rejets de stockage ou manutention | | | |
| Grouping: | | Total Air | | | |
| Trans Code: | | VOCg | | | |
| Chem: | | Xylene (mixed isomers) | | | |
| Chem (fr): | | Xylène (mélange d'isomères) | | | |
| Quantity: | | .15 | | | |
| Unit: | | tonnes | | | |
| Basis of Estimate Cd: | | C | | | |
| Basis of Estimate Desc: | | C- Mass Balance | | | |

| <u>13</u> | 21 of 40 | NW/79.1 | 207.1 / -1.79 | TREBOR IND. TRISTAR COATINGS DIV. 18 CADETTA ROAD NOT AVAILABLE BRAMPTON ON L6P0X4 | NPRI |
|-------------------------------------|---|---------|---------------|--|----------------------|
| NPRI ID: | 4425 | | | Org ID: | 20847 |
| Other ID: | * | | | Submit Date: | 7/10/1997 |
| No Other ID: | 0 | | | Last Modified: | 5/29/2015 3:28:24 PM |
| Track ID: | 12207 | | | Contact ID: | 99363 |
| Report ID: | | | | Cont Type: | MED |
| Report Type: | NPRI | | | Contact Title: | |
| Rpt Type ID: | 1 | | | Cont First Name: | MICHAEL |
| Report Year: | 1996 | | | Cont Last Name: | SHILLUM |
| Not-Current Rpt?: | No | | | Contact Position: | PLANT MANAGER |
| Yr of Last Filed Rpt: | 2014 | | | Contact Fax: | 9057940304 |
| Fac ID: | 48552 | | | Contact Ph.: | 9057941100 |
| Fac Name: | TRISTAR COATINGS | | | Cont Area Code: | 905 |
| Fac Address1: | 18 CADETTA ROAD | | | Contact Tel.: | 57941100 |
| Fac Address2: | NOT AVAILABLE | | | Contact Ext.: | |
| Fac Postal Zip: | L6P0X4 | | | Cont Fax Area Cde: | 905 |
| Facility Lat: | 43.8144 | | | Contact Fax: | 57940304 |
| Facility Long: | -79.6805 | | | Contact Email: | NOT AVAILABLE |
| DLS (Last Filed Rpt): | | | | Latitude: | 43.8144 |
| Facility DLS: | | | | Longitude: | -79.6805 |
| Datum: | 1983 | | | UTM Zone: | 17 |
| Facility Cmnts: | FALSE | | | UTM Northing: | 4852100 |
| URL: | | | | UTM Easting: | 606300 |
| No of Empl.: | 14 | | | Waste Streams: | FALSE |
| Parent Co.: | * | | | No Streams: | 0 |
| No Parent Co.: | 0 | | | Waste Off Sites: | TRUE |
| Pollut Prev Cmnts: | FALSE | | | No Off Sites: | 1 |
| 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): | 32 | | | | |
| NAICS 2 Description: | Manufacturing | | | | |
| NAICS Code (4 digit): | 3255 | | | | |
| NAICS 4 Description: | Paint, coating and adhesive manufacturing | | | | |
| NAICS Code (6 digit): | 325510 | | | | |
| NAICS 6 Description: | Paint and coating manufacturing | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|-------------------------------------|-------------------|-----------------------------|------------------|--|---------------------------|
| Substance Release Report | | | | | |
| Category Type ID: | | 13 | | | |
| Category Type Desc: | | All Media | | | |
| Category Type Desc (fr): | | Rejets à tous les médias | | | |
| Grouping: | | Total All Media<1t | | | |
| Trans Code: | | | | | |
| Chem: | | Xylene (mixed isomers) | | | |
| Chem (fr): | | Xylène (mélange d'isomères) | | | |
| Quantity: | | .718 | | | |
| Unit: | | tonnes | | | |
| Basis of Estimate Cd: | | C | | | |
| Basis of Estimate Desc: | | C- Mass Balance | | | |
| Category Type ID: | | 13 | | | |
| Category Type Desc: | | All Media | | | |
| Category Type Desc (fr): | | Rejets à tous les médias | | | |
| Grouping: | | Total All Media<1t | | | |
| Trans Code: | | | | | |
| Chem: | | Toluene | | | |
| Chem (fr): | | Toluène | | | |
| Quantity: | | .478 | | | |
| Unit: | | tonnes | | | |
| Basis of Estimate Cd: | | C | | | |
| Basis of Estimate Desc: | | C- Mass Balance | | | |
| 13 | 22 of 40 | NW/79.1 | 207.1 / -1.79 | TREBOR IND. TRISTAR COATINGS DIV. 18 CADETTA ROAD NOT AVAILABLE BRAMPTON ON L6P0X4 | NPRI |
| NPRI ID: | 4425 | | | Org ID: | 20847 |
| Other ID: | * | | | Submit Date: | 5/31/1999 |
| No Other ID: | 0 | | | Last Modified: | 5/29/2015 3:28:24 PM |
| Track ID: | 12208 | | | Contact ID: | 99358 |
| Report ID: | | | | Cont Type: | MED |
| Report Type: | NPRI | | | Contact Title: | |
| Rpt Type ID: | 1 | | | Cont First Name: | MICHAEL |
| Report Year: | 1998 | | | Cont Last Name: | SHILLUM |
| Not-Current Rpt?: | No | | | Contact Position: | GENERAL MANAGER |
| Yr of Last Filed Rpt: | 2014 | | | Contact Fax: | 9057940304 |
| Fac ID: | 48552 | | | Contact Ph.: | 9057941100 |
| Fac Name: | TRISTAR COATINGS | | | Cont Area Code: | 905 |
| Fac Address1: | 18 CADETTA ROAD | | | Contact Tel.: | 57941100 |
| Fac Address2: | NOT AVAILABLE | | | Contact Ext.: | |
| Fac Postal Zip: | L6P0X4 | | | Cont Fax Area Cde: | 905 |
| Facility Lat: | 43.8144 | | | Contact Fax: | 57940304 |
| Facility Long: | -79.6805 | | | Contact Email: | RMS@TRISTARCOATINGS.ON.CA |
| DLS (Last Filed Rpt): | | | | Latitude: | 43.8144 |
| Facility DLS: | | | | Longitude: | -79.6805 |
| Datum: | 1983 | | | UTM Zone: | 17 |
| Facility Cmnts: | False | | | UTM Northing: | 4852100 |
| URL: | | | | UTM Easting: | 606300 |
| No of Empl.: | 16 | | | Waste Streams: | False |
| Parent Co.: | Y | | | No Streams: | 0 |
| No Parent Co.: | 1 | | | Waste Off Sites: | Fals |
| Pollut Prev Cmnts: | False | | | No Off Sites: | 1 |
| 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): | | 32 | | | |
| NAICS 2 Description: | | Manufacturing | | | |
| NAICS Code (4 digit): | | 3255 | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--|-------------------|---|------------------|------|----|
| NAICS 4 Description: | | Paint, coating and adhesive manufacturing | | | |
| NAICS Code (6 digit): | | 325510 | | | |
| NAICS 6 Description: | | Paint and coating manufacturing | | | |
| <u>Substance Release Report</u> | | | | | |
| Category Type ID: | | 13 | | | |
| Category Type Desc: | | All Media | | | |
| Category Type Desc (fr): | | Rejets à tous les médias | | | |
| Grouping: | | Total All Media<1t | | | |
| Trans Code: | | | | | |
| Chem: | | Xylene (mixed isomers) | | | |
| Chem (fr): | | Xylène (mélange d'isomères) | | | |
| Quantity: | | .775 | | | |
| Unit: | | tonnes | | | |
| Basis of Estimate Cd: | | C | | | |
| Basis of Estimate Desc: | | C- Mass Balance | | | |
| Category Type ID: | | 13 | | | |
| Category Type Desc: | | All Media | | | |
| Category Type Desc (fr): | | Rejets à tous les médias | | | |
| Grouping: | | Total All Media<1t | | | |
| Trans Code: | | | | | |
| Chem: | | Methyl ethyl ketone | | | |
| Chem (fr): | | Méthyl éthyl cétone | | | |
| Quantity: | | .426 | | | |
| Unit: | | tonnes | | | |
| Basis of Estimate Cd: | | C | | | |
| Basis of Estimate Desc: | | C- Mass Balance | | | |
| Category Type ID: | | 13 | | | |
| Category Type Desc: | | All Media | | | |
| Category Type Desc (fr): | | Rejets à tous les médias | | | |
| Grouping: | | Total All Media<1t | | | |
| Trans Code: | | | | | |
| Chem: | | Toluene | | | |
| Chem (fr): | | Toluène | | | |
| Quantity: | | .13 | | | |
| Unit: | | tonnes | | | |
| Basis of Estimate Cd: | | C | | | |
| Basis of Estimate Desc: | | C- Mass Balance | | | |

| | | | | | |
|------------------------------|-----------------|---------------------------|------------------------|--|------|
| 13 | 23 of 40 | NW/79.1 | 207.1 / -1.79 | TRISTAR COATINGS LTD 18 CADETTA ROAD NOT AVAILABLE BRAMPTON ON L6T 3Z8 | NPRI |
| NPRI ID: | 4425 | Org ID: | 70696 | | |
| Other ID: | * | Submit Date: | 5/31/2001 | | |
| No Other ID: | 0.00 | Last Modified: | 5/29/2015 3:28:24 PM | | |
| Track ID: | 12211 | Contact ID: | 99359 | | |
| Report ID: | | Cont Type: | MED | | |
| Report Type: | NPRI | Contact Title: | | | |
| Rpt Type ID: | 1 | Cont First Name: | MICHAEL | | |
| Report Year: | 2000 | Cont Last Name: | SHILLUM | | |
| Not-Current Rpt?: | No | Contact Position: | GENERAL MANAGER | | |
| Yr of Last Filed Rpt: | 2014 | Contact Fax: | 9057940304 | | |
| Fac ID: | 117648 | Contact Ph.: | 9057941100 | | |
| Fac Name: | NOT AVAILABLE | Cont Area Code: | 905 | | |
| Fac Address1: | 18 CADETTA ROAD | Contact Tel.: | 57941100 | | |
| Fac Address2: | NOT AVAILABLE | Contact Ext.: | 19 | | |
| Fac Postal Zip: | L6T 3Z8 | Cont Fax Area Cde: | 905 | | |
| Facility Lat: | | Contact Fax: | 57940304 | | |
| Facility Long: | | Contact Email: | RMS@TRISTARCOATINGS.CA | | |
| DLS (Last Filed Rpt): | | Latitude: | 43.8144 | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--|--------------------------|---|----------------------|-------------------------|-----------|
| Facility DLS: | | | | Longitude: | -79.6805 |
| Datum: | 1983 | | | UTM Zone: | |
| Facility Cmnts: | False | | | UTM Northing: | |
| URL: | | | | UTM Easting: | |
| No of Empl.: | 17 | | | Waste Streams: | No |
| Parent Co.: | * | | | No Streams: | 0 |
| No Parent Co.: | 1.00 | | | Waste Off Sites: | Yes |
| Pollut Prev Cmnts: | False | | | No Off Sites: | 1.00 |
| 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): | | 32 | | | |
| NAICS 2 Description: | | Manufacturing | | | |
| NAICS Code (4 digit): | | 3255 | | | |
| NAICS 4 Description: | | Paint, coating and adhesive manufacturing | | | |
| NAICS Code (6 digit): | | 325510 | | | |
| NAICS 6 Description: | | Paint and coating manufacturing | | | |
| <u>Substance Release Report</u> | | | | | |
| Category Type ID: | | 2 | | | |
| Category Type Desc: | | Storage / Handling | | | |
| Category Type Desc (fr): | | Rejets de stockage ou manutention | | | |
| Grouping: | | Total Air | | | |
| Trans Code: | | VOCg | | | |
| Chem: | | Xylene (mixed isomers) | | | |
| Chem (fr): | | Xylène (mélange d'isomères) | | | |
| Quantity: | | .135 | | | |
| Unit: | | tonnes | | | |
| Basis of Estimate Cd: | | C | | | |
| Basis of Estimate Desc: | | C- Mass Balance | | | |
| Category Type ID: | | 3 | | | |
| Category Type Desc: | | Fugitive | | | |
| Category Type Desc (fr): | | Émissions fugitives | | | |
| Grouping: | | Total Air | | | |
| Trans Code: | | VOCs | | | |
| Chem: | | Methyl ethyl ketone | | | |
| Chem (fr): | | Méthyléthylcétone | | | |
| Quantity: | | .255 | | | |
| Unit: | | tonnes | | | |
| Basis of Estimate Cd: | | O | | | |
| Basis of Estimate Desc: | | O- Engineering Estimates | | | |
| Category Type ID: | | 3 | | | |
| Category Type Desc: | | Fugitive | | | |
| Category Type Desc (fr): | | Émissions fugitives | | | |
| Grouping: | | Total Air | | | |
| Trans Code: | | VOCs | | | |
| Chem: | | Xylene (mixed isomers) | | | |
| Chem (fr): | | Xylène (mélange d'isomères) | | | |
| Quantity: | | .1 | | | |
| Unit: | | tonnes | | | |
| Basis of Estimate Cd: | | O | | | |
| Basis of Estimate Desc: | | O- Engineering Estimates | | | |
| Category Type ID: | | 3 | | | |
| Category Type Desc: | | Fugitive | | | |
| Category Type Desc (fr): | | Émissions fugitives | | | |
| Grouping: | | Total Air | | | |
| Trans Code: | | VOCs | | | |
| Chem: | | Toluene | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--------------------------------|-------------------|----------------------------|------------------|------|----|
| | | | | | |
| Chem (fr): | | Toluène | | | |
| Quantity: | | .13 | | | |
| Unit: | | tonnes | | | |
| Basis of Estimate Cd: | | O | | | |
| Basis of Estimate Desc: | | O- Engineering Estimates | | | |

| | | | | | |
|-------------------------------------|---|---------|---------------|--|----------------------|
| 13 | 24 of 40 | NW/79.1 | 207.1 / -1.79 | TRISTAR COATINGS LTD. 18 CADETTA ROAD NOT AVAILABLE BRAMPTON ON L6P0X4 | NPRI |
| NPRI ID: | 4425 | | | Org ID: | 103016 |
| Other ID: | | | | Submit Date: | 6/27/2012 |
| No Other ID: | | | | Last Modified: | 5/29/2015 3:28:24 PM |
| Track ID: | 101756 | | | Contact ID: | 234830 |
| Report ID: | 6319 | | | Cont Type: | MED |
| Report Type: | NPRI | | | Contact Title: | |
| Rpt Type ID: | 1 | | | Cont First Name: | |
| Report Year: | 2011 | | | Cont Last Name: | |
| Not-Current Rpt?: | No | | | Contact Position: | |
| Yr of Last Filed Rpt: | 2014 | | | Contact Fax: | |
| Fac ID: | 224562 | | | Contact Ph.: | |
| Fac Name: | TRISTAR COATINGS LTD. | | | Cont Area Code: | |
| Fac Address1: | 18 CADETTA ROAD | | | Contact Tel.: | |
| Fac Address2: | NOT AVAILABLE | | | Contact Ext.: | |
| Fac Postal Zip: | L6P0X4 | | | Cont Fax Area Cde: | |
| Facility Lat: | 43.8144 | | | Contact Fax: | |
| Facility Long: | -79.6805 | | | Contact Email: | |
| DLS (Last Filed Rpt): | | | | Latitude: | 43.8144 |
| Facility DLS: | | | | Longitude: | -79.6805 |
| Datum: | 1983 | | | UTM Zone: | |
| Facility Cmnts: | | | | UTM Northing: | |
| URL: | | | | UTM Easting: | |
| No of Empl.: | 18 | | | 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): | 32 | | | | |
| NAICS 2 Description: | Manufacturing | | | | |
| NAICS Code (4 digit): | 3255 | | | | |
| NAICS 4 Description: | Paint, coating and adhesive manufacturing | | | | |
| NAICS Code (6 digit): | 325510 | | | | |
| NAICS 6 Description: | Paint and coating manufacturing | | | | |

Substance Release Report

| | |
|---------------------------------|-----------------------------------|
| Category Type ID: | 2 |
| Category Type Desc: | Storage / Handling |
| Category Type Desc (fr): | Rejets de stockage ou manutention |
| Grouping: | Total Air |
| Trans Code: | VOCg |
| Chem: | Acetone |
| Chem (fr): | Acétone |
| Quantity: | .003 |
| Unit: | tonnes |
| Basis of Estimate Cd: | O |
| Basis of Estimate Desc: | O- Engineering Estimates |

Category Type ID: 13

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|---------------------------------|-------------------|----------------------------|------------------|------|----|
| Category Type Desc: | | All Media | | | |
| Category Type Desc (fr): | | Rejets à tous les médias | | | |
| Grouping: | | Total All Media<1t | | | |
| Trans Code: | | | | | |
| Chem: | | Xylene (all isomers) | | | |
| Chem (fr): | | Xylène (tous les isomères) | | | |
| Quantity: | | .466 | | | |
| Unit: | | tonnes | | | |
| Basis of Estimate Cd: | | O | | | |
| Basis of Estimate Desc: | | O- Engineering Estimates | | | |
| Category Type ID: | | 13 | | | |
| Category Type Desc: | | All Media | | | |
| Category Type Desc (fr): | | Rejets à tous les médias | | | |
| Grouping: | | Total All Media<1t | | | |
| Trans Code: | | | | | |
| Chem: | | Methyl ethyl ketone | | | |
| Chem (fr): | | Méthyléthylcétone | | | |
| Quantity: | | .419 | | | |
| Unit: | | tonnes | | | |
| Basis of Estimate Cd: | | O | | | |
| Basis of Estimate Desc: | | O- Engineering Estimates | | | |
| Category Type ID: | | 13 | | | |
| Category Type Desc: | | All Media | | | |
| Category Type Desc (fr): | | Rejets à tous les médias | | | |
| Grouping: | | Total All Media<1t | | | |
| Trans Code: | | | | | |
| Chem: | | Toluene | | | |
| Chem (fr): | | Toluène | | | |
| Quantity: | | .892 | | | |
| Unit: | | tonnes | | | |
| Basis of Estimate Cd: | | O | | | |
| Basis of Estimate Desc: | | O- Engineering Estimates | | | |

| | | | | | |
|------------------------------|-----------------|---------|---------------|---|----------------------|
| 13 | 25 of 40 | NW/79.1 | 207.1 / -1.79 | TREBOR IND. TRISTAR COATINGS DIV. 18 CADETTA ROAD NOT AVAILABLE BRAMPTON ON L6T 3Z8 | NPRI |
| NPRI ID: | 4425 | | | Org ID: | 20847 |
| Other ID: | FALSE | | | Submit Date: | |
| No Other ID: | 0 | | | Last Modified: | 5/29/2015 3:28:24 PM |
| Track ID: | 12212 | | | Contact ID: | 99350 |
| Report ID: | | | | Cont Type: | MED |
| Report Type: | NPRI | | | Contact Title: | |
| Rpt Type ID: | 1 | | | Cont First Name: | MICHAEL |
| Report Year: | 1994 | | | Cont Last Name: | SHILLUM |
| Not-Current Rpt?: | No | | | Contact Position: | NOT AVAILABLE |
| Yr of Last Filed Rpt: | 2014 | | | Contact Fax: | 9057940304 |
| Fac ID: | 117648 | | | Contact Ph.: | 9057941100 |
| Fac Name: | NOT AVAILABLE | | | Cont Area Code: | 905 |
| Fac Address1: | 18 CADETTA ROAD | | | Contact Tel.: | 57941100 |
| Fac Address2: | NOT AVAILABLE | | | Contact Ext.: | |
| Fac Postal Zip: | L6T 3Z8 | | | Cont Fax Area Cde: | 905 |
| Facility Lat: | | | | Contact Fax: | 57940304 |
| Facility Long: | | | | Contact Email: | NOT AVAILABLE |
| DLS (Last Filed Rpt): | | | | Latitude: | 43.8144 |
| Facility DLS: | | | | Longitude: | -79.6805 |
| Datum: | 1983 | | | UTM Zone: | 17 |
| Facility Cmnts: | FALSE | | | UTM Northing: | 4852100 |
| URL: | | | | UTM Easting: | 606300 |
| No of Empl.: | 14 | | | Waste Streams: | FALSE |
| Parent Co.: | FALSE | | | No Streams: | 0 |
| No Parent Co.: | 0 | | | Waste Off Sites: | TRUE |
| Pollut Prev Cmnts: | | | | No Off Sites: | 1 |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--|-------------------|----------------------------|------------------|--|----|
| 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): | | | | 32 | |
| NAICS 2 Description: | | | | Manufacturing | |
| NAICS Code (4 digit): | | | | 3255 | |
| NAICS 4 Description: | | | | Paint, coating and adhesive manufacturing | |
| NAICS Code (6 digit): | | | | 325510 | |
| NAICS 6 Description: | | | | Paint and coating manufacturing | |
| <u>Substance Release Report</u> | | | | | |
| Category Type ID: | | | | 13 | |
| Category Type Desc: | | | | All Media | |
| Category Type Desc (fr): | | | | Rejets à tous les médias | |
| Grouping: | | | | Total All Media<1t | |
| Trans Code: | | | | | |
| Chem: | | | | Toluene | |
| Chem (fr): | | | | Toluène | |
| Quantity: | | | | .005 | |
| Unit: | | | | tonnes | |
| Basis of Estimate Cd: | | | | M | |
| Basis of Estimate Desc: | | | | M- Monitoring or Direct Measurement - In use from 1994 to 2002 | |
| Category Type ID: | | | | 13 | |
| Category Type Desc: | | | | All Media | |
| Category Type Desc (fr): | | | | Rejets à tous les médias | |
| Grouping: | | | | Total All Media<1t | |
| Trans Code: | | | | | |
| Chem: | | | | Xylene (mixed isomers) | |
| Chem (fr): | | | | Xylène (mélange d'isomères) | |
| Quantity: | | | | .182 | |
| Unit: | | | | tonnes | |
| Basis of Estimate Cd: | | | | M | |
| Basis of Estimate Desc: | | | | M- Monitoring or Direct Measurement - In use from 1994 to 2002 | |

| | | | | | |
|------------------------------|-----------------|---------|---------------|---|----------------------|
| 13 | 26 of 40 | NW/79.1 | 207.1 / -1.79 | TREBOR IND. TRISTAR COATINGS DIV. 18 CADETTA ROAD NOT AVAILABLE BRAMPTON ON L6T 3Z8 | NPRI |
| NPRI ID: | 4425 | | | Org ID: | 20847 |
| Other ID: | * | | | Submit Date: | 9/26/2001 |
| No Other ID: | 0 | | | Last Modified: | 5/29/2015 3:28:24 PM |
| Track ID: | 12213 | | | Contact ID: | 99350 |
| Report ID: | | | | Cont Type: | MED |
| Report Type: | NPRI | | | Contact Title: | |
| Rpt Type ID: | 1 | | | Cont First Name: | MICHAEL |
| Report Year: | 1995 | | | Cont Last Name: | SHILLUM |
| Not-Current Rpt?: | No | | | Contact Position: | NOT AVAILABLE |
| Yr of Last Filed Rpt: | 2014 | | | Contact Fax: | 9057940304 |
| Fac ID: | 117648 | | | Contact Ph.: | 9057941100 |
| Fac Name: | NOT AVAILABLE | | | Cont Area Code: | 905 |
| Fac Address1: | 18 CADETTA ROAD | | | Contact Tel.: | 57941100 |
| Fac Address2: | NOT AVAILABLE | | | Contact Ext.: | |
| Fac Postal Zip: | L6T 3Z8 | | | Cont Fax Area Cde: | 905 |
| Facility Lat: | | | | Contact Fax: | 57940304 |
| Facility Long: | | | | Contact Email: | NOT AVAILABLE |
| DLS (Last Filed Rpt): | | | | Latitude: | 43.8144 |
| Facility DLS: | | | | Longitude: | -79.6805 |
| Datum: | 1983 | | | UTM Zone: | 17 |
| Facility Cmnts: | FALSE | | | UTM Northing: | 4852100 |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--|-------------------|--|------------------|--|------|
| URL: No of Empl.: 13 Parent Co.: * No Parent Co.: 0 Pollut Prev Cmnts: FALSE Stacks: No of Stacks: Canadian SIC Code (2 digit): Canadian SIC Code: SIC Code Description: American SIC Code: NAICS Code (2 digit): 32 NAICS 2 Description: Manufacturing NAICS Code (4 digit): 3255 NAICS 4 Description: Paint, coating and adhesive manufacturing NAICS Code (6 digit): 325510 NAICS 6 Description: Paint and coating manufacturing | | UTM Easting: 606300 Waste Streams: FALSE No Streams: 0 Waste Off Sites: TRUE No Off Sites: 1 Shutdown: No of Shutdown: | | | |
| Substance Release Report | | | | | |
| Category Type ID: 2 Category Type Desc: Storage / Handling Category Type Desc (fr): Rejets de stockage ou manutention Grouping: Total Air Trans Code: VOCg Chem: Xylene (mixed isomers) Chem (fr): Xylène (mélange d'isomères) Quantity: 1.038 Unit: tonnes Basis of Estimate Cd: 0 Basis of Estimate Desc: O- Engineering Estimates | | | | | |
| Category Type ID: 2 Category Type Desc: Storage / Handling Category Type Desc (fr): Rejets de stockage ou manutention Grouping: Total Air Trans Code: VOCg Chem: Toluene Chem (fr): Toluène Quantity: .5 Unit: tonnes Basis of Estimate Cd: 0 Basis of Estimate Desc: O- Engineering Estimates | | | | | |
| 13 | 27 of 40 | NW/79.1 | 207.1 / -1.79 | TREBOR IND. TRISTAR COATINGS DIV. 18 CADETTA ROAD NOT AVAILABLE BRAMPTON ON L6P0X4 | NPRI |
| NPRI ID: 4425 Other ID: * No Other ID: 0 Track ID: 12210 Report ID: Report Type: NPRI Rpt Type ID: 1 Report Year: 1997 Not-Current Rpt?: No Yr of Last Filed Rpt: 2014 Fac ID: 48552 Fac Name: TRISTAR COATINGS Fac Address1: 18 CADETTA ROAD Fac Address2: NOT AVAILABLE Fac Postal Zip: L6P0X4 Facility Lat: 43.8144 | | Org ID: 20847 Submit Date: 5/28/1998 Last Modified: 5/29/2015 3:28:24 PM Contact ID: 99355 Cont Type: MED Contact Title: Cont First Name: MICHAEL Cont Last Name: SHILLUM Contact Position: GENERAL MANAGER Contact Fax: 9057940304 Contact Ph.: 9057941100 Cont Area Code: 905 Contact Tel.: 57941100 Contact Ext.: Cont Fax Area Cde: 905 Contact Fax: 57940304 | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--|---|----------------------------|----------------------|--|---------------|
| Facility Long: | -79.6805 | | | Contact Email: | NOT AVAILABLE |
| DLS (Last Filed Rpt): | | | | Latitude: | 43.8144 |
| Facility DLS: | | | | Longitude: | -79.6805 |
| Datum: | 1983 | | | UTM Zone: | 17 |
| Facility Cmnts: | FALSE | | | UTM Northing: | 4852100 |
| URL: | | | | UTM Easting: | 606300 |
| No of Empl.: | 16 | | | Waste Streams: | FALSE |
| Parent Co.: | * | | | No Streams: | 0 |
| No Parent Co.: | 1 | | | Waste Off Sites: | TRUE |
| Pollut Prev Cmnts: | FALSE | | | No Off Sites: | 1 |
| 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): | 32 | | | | |
| NAICS 2 Description: | Manufacturing | | | | |
| NAICS Code (4 digit): | 3255 | | | | |
| NAICS 4 Description: | Paint, coating and adhesive manufacturing | | | | |
| NAICS Code (6 digit): | 325510 | | | | |
| NAICS 6 Description: | Paint and coating manufacturing | | | | |
| <u>Substance Release Report</u> | | | | | |
| Category Type ID: | 13 | | | | |
| Category Type Desc: | All Media | | | | |
| Category Type Desc (fr): | Rejets à tous les médias | | | | |
| Grouping: | Total All Media<1t | | | | |
| Trans Code: | | | | | |
| Chem: | Xylene (mixed isomers) | | | | |
| Chem (fr): | Xylène (mélange d'isomères) | | | | |
| Quantity: | .665 | | | | |
| Unit: | tonnes | | | | |
| Basis of Estimate Cd: | C | | | | |
| Basis of Estimate Desc: | C- Mass Balance | | | | |
| Category Type ID: | 13 | | | | |
| Category Type Desc: | All Media | | | | |
| Category Type Desc (fr): | Rejets à tous les médias | | | | |
| Grouping: | Total All Media<1t | | | | |
| Trans Code: | | | | | |
| Chem: | Toluene | | | | |
| Chem (fr): | Toluène | | | | |
| Quantity: | .11 | | | | |
| Unit: | tonnes | | | | |
| Basis of Estimate Cd: | C | | | | |
| Basis of Estimate Desc: | C- Mass Balance | | | | |
| Category Type ID: | 13 | | | | |
| Category Type Desc: | All Media | | | | |
| Category Type Desc (fr): | Rejets à tous les médias | | | | |
| Grouping: | Total All Media<1t | | | | |
| Trans Code: | | | | | |
| Chem: | Methyl ethyl ketone | | | | |
| Chem (fr): | Méthyléthylcétone | | | | |
| Quantity: | .342 | | | | |
| Unit: | tonnes | | | | |
| Basis of Estimate Cd: | C | | | | |
| Basis of Estimate Desc: | C- Mass Balance | | | | |
| 13 | 28 of 40 | NW/79.1 | 207.1 / -1.79 | TRISTAR COATINGS LTD 18 CADETTA ROAD NOT AVAILABLE BRAMPTON ON L6P0X4 | NPRI |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|-------------------------------------|---|-------------------------|---------------|---------------------------|----------------------|
| NPRI ID: | 4425 | | | Org ID: | 70696 |
| Other ID: | N | | | Submit Date: | 5/28/2009 |
| No Other ID: | | | | Last Modified: | 5/29/2015 3:28:24 PM |
| Track ID: | 66308 | | | Contact ID: | 234830 |
| Report ID: | 127724 | | | Cont Type: | MED |
| Report Type: | NPRI | | | Contact Title: | |
| Rpt Type ID: | 1 | | | Cont First Name: | |
| Report Year: | 2008 | | | Cont Last Name: | |
| Not-Current Rpt?: | No | | | Contact Position: | |
| Yr of Last Filed Rpt: | 2014 | | | Contact Fax: | |
| Fac ID: | 224562 | | | Contact Ph.: | |
| Fac Name: | TRISTAR COATINGS LTD. | | | Cont Area Code: | |
| Fac Address1: | 18 CADETTA ROAD | | | Contact Tel.: | |
| Fac Address2: | NOT AVAILABLE | | | Contact Ext.: | |
| Fac Postal Zip: | L6P0X4 | | | Cont Fax Area Cde: | |
| Facility Lat: | 43.8144 | | | Contact Fax: | |
| Facility Long: | -79.6805 | | | Contact Email: | |
| DLS (Last Filed Rpt): | | | | Latitude: | 43.8144 |
| Facility DLS: | | | | Longitude: | -79.6805 |
| Datum: | 1983 | | | UTM Zone: | |
| Facility Cmnts: | No | | | UTM Northing: | |
| URL: | www.tristarcoating.ca | | | UTM Easting: | |
| No of Empl.: | 19 | | | Waste Streams: | No |
| Parent Co.: | N | | | No Streams: | |
| No Parent Co.: | | | | Waste Off Sites: | Yes |
| Pollut Prev Cmnts: | No | | | No Off Sites: | 1 |
| 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): | 32 | | | | |
| NAICS 2 Description: | Manufacturing | | | | |
| NAICS Code (4 digit): | 3255 | | | | |
| NAICS 4 Description: | Paint, coating and adhesive manufacturing | | | | |
| NAICS Code (6 digit): | 325510 | | | | |
| NAICS 6 Description: | Paint and coating manufacturing | | | | |

Substance Release Report

Category Type ID: 13
Category Type Desc: All Media
Category Type Desc (fr): Rejets à tous les médias
Grouping: Total All Media<1t
Trans Code:
Chem: Xylene (all isomers)
Chem (fr): Xylène (tous les isomères)
Quantity: .768
Unit: tonnes
Basis of Estimate Cd:
Basis of Estimate Desc:

Category Type ID: 13
Category Type Desc: All Media
Category Type Desc (fr): Rejets à tous les médias
Grouping: Total All Media<1t
Trans Code:
Chem: Methyl ethyl ketone
Chem (fr): Méthyléthylcétone
Quantity: .504
Unit: tonnes
Basis of Estimate Cd:
Basis of Estimate Desc:

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|-------------------------------------|---|----------------------------|------------------|---------------------------|------------------------|
| Fac Address1: | 18 CADETTA ROAD | | | Contact Tel.: | 57941100 |
| Fac Address2: | NOT AVAILABLE | | | Contact Ext.: | 19 |
| Fac Postal Zip: | L6P0X4 | | | Cont Fax Area Cde: | 905 |
| Facility Lat: | 43.8144 | | | Contact Fax: | 57940304 |
| Facility Long: | -79.6805 | | | Contact Email: | RMS@TRISTARCOATINGS.CA |
| DLS (Last Filed Rpt): | | | | Latitude: | 43.8144 |
| Facility DLS: | | | | Longitude: | -79.6805 |
| Datum: | 1983 | | | UTM Zone: | |
| Facility Cmnts: | False | | | UTM Northing: | |
| URL: | www.tristarcoating.ca | | | UTM Easting: | |
| No of Empl.: | 17 | | | Waste Streams: | True? |
| Parent Co.: | * | | | No Streams: | |
| No Parent Co.: | 1 | | | Waste Off Sites: | Fals |
| Pollut Prev Cmnts: | False | | | No Off Sites: | 1 |
| Stacks: | True | | | Shutdown: | True |
| No of Stacks: | | | | No of Shutdown: | |
| Canadian SIC Code (2 digit): | | | | | |
| Canadian SIC Code: | | | | | |
| SIC Code Description: | | | | | |
| American SIC Code: | | | | | |
| NAICS Code (2 digit): | 32 | | | | |
| NAICS 2 Description: | Manufacturing | | | | |
| NAICS Code (4 digit): | 3255 | | | | |
| NAICS 4 Description: | Paint, coating and adhesive manufacturing | | | | |
| NAICS Code (6 digit): | 325510 | | | | |
| NAICS 6 Description: | Paint and coating manufacturing | | | | |

Substance Release Report

Category Type ID: 1
Category Type Desc: Stack / Point
Category Type Desc (fr): Rejets de cheminée ou ponctuels
Grouping: Total Air
Trans Code: ASta
Chem: Volatile Organic Compounds (VOCs)
Chem (fr): Composés organiques volatils (COV)
Quantity: 12.078
Unit: tonnes
Basis of Estimate Cd: O
Basis of Estimate Desc: O- Engineering Estimates

Category Type ID: 3
Category Type Desc: Fugitive
Category Type Desc (fr): Émissions fugitives
Grouping: Total Air
Trans Code: VOCs
Chem: Xylene (all isomers)
Chem (fr): Xylène (tous les isomères)
Quantity: 3.585
Unit: tonnes
Basis of Estimate Cd: O
Basis of Estimate Desc: O- Engineering Estimates

Category Type ID: 13
Category Type Desc: All Media
Category Type Desc (fr): Rejets à tous les médias
Grouping: Total All Media<1t
Trans Code:
Chem: Methyl ethyl ketone
Chem (fr): Méthyléthylcétone
Quantity: .52
Unit: tonnes
Basis of Estimate Cd:
Basis of Estimate Desc:

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|---|-------------------|---|------------------|---|------|
| 13 | 30 of 40 | NW/79.1 | 207.1 / -1.79 | TRISTAR COATINGS LTD. 18 CADETTA ROAD NOT AVAILABLE BRAMPTON ON L6T 3Z8 | NPRI |
| NPRI ID: 4425 Other ID: N No Other ID: 0 Track ID: 76622 Report ID: 161152 Report Type: NPRI Rpt Type ID: 1 Report Year: 2002 Not-Current Rpt?: No Yr of Last Filed Rpt: 2014 Fac ID: 117648 Fac Name: NOT AVAILABLE Fac Address1: 18 CADETTA ROAD Fac Address2: NOT AVAILABLE Fac Postal Zip: L6T 3Z8 Facility Lat: Facility Long: DLS (Last Filed Rpt): Facility DLS: Datum: 1983 Facility Cmnts: False URL: www.tristarcoatings.ca No of Empl.: 17 Parent Co.: * No Parent Co.: 1 Pollut Prev Cmnts: False Stacks: False No of Stacks: Canadian SIC Code (2 digit): Canadian SIC Code: SIC Code Description: American SIC Code: NAICS Code (2 digit): 32 NAICS 2 Description: Manufacturing NAICS Code (4 digit): 3255 NAICS 4 Description: Paint, coating and adhesive manufacturing NAICS Code (6 digit): 325510 NAICS 6 Description: Paint and coating manufacturing | | Org ID: 70697 Submit Date: 1/8/2004 Last Modified: 5/29/2015 3:28:24 PM Contact ID: 188563 Cont Type: MED Contact Title: Cont First Name: MICHAEL Cont Last Name: SHILLUM Contact Position: GENERAL MANAGER Contact Fax: 9057940304 Contact Ph.: 9057941100 Cont Area Code: 905 Contact Tel.: 57941100 Contact Ext.: 19 Cont Fax Area Cde: 905 Contact Fax: 57940304 Contact Email: RMS@TRISTARCOATINGS.CA Latitude: 43.8144 Longitude: -79.6805 UTM Zone: UTM Northing: UTM Easting: Waste Streams: False No Streams: 0 Waste Off Sites: Fals No Off Sites: 1 Shutdown: False No of Shutdown: 0 | | | |
| <u>Substance Release Report</u> | | | | | |
| Category Type ID: 13 Category Type Desc: All Media Category Type Desc (fr): Rejets à tous les médias Grouping: Total All Media<1t Trans Code: Chem: Methyl isobutyl ketone Chem (fr): Méthylisobutylecétone Quantity: .364 Unit: tonnes Basis of Estimate Cd: Basis of Estimate Desc: | | | | | |
| Category Type ID: 13 Category Type Desc: All Media Category Type Desc (fr): Rejets à tous les médias Grouping: Total All Media<1t Trans Code: Chem: Toluene Chem (fr): Toluène | | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|---------------------------------|-------------------|-----------------------------|------------------|------|----|
| Quantity: | | .817 | | | |
| Unit: | | tonnes | | | |
| Basis of Estimate Cd: | | | | | |
| Basis of Estimate Desc: | | | | | |
| Category Type ID: | | 3 | | | |
| Category Type Desc: | | Fugitive | | | |
| Category Type Desc (fr): | | Émissions fugitives | | | |
| Grouping: | | Total Air | | | |
| Trans Code: | | VOCs | | | |
| Chem: | | Xylene (mixed isomers) | | | |
| Chem (fr): | | Xylène (mélange d'isomères) | | | |
| Quantity: | | 4.61 | | | |
| Unit: | | tonnes | | | |
| Basis of Estimate Cd: | | O | | | |
| Basis of Estimate Desc: | | O- Engineering Estimates | | | |
| Category Type ID: | | 13 | | | |
| Category Type Desc: | | All Media | | | |
| Category Type Desc (fr): | | Rejets à tous les médias | | | |
| Grouping: | | Total All Media<1t | | | |
| Trans Code: | | | | | |
| Chem: | | Methyl ethyl ketone | | | |
| Chem (fr): | | Méthyléthylcétone | | | |
| Quantity: | | .363 | | | |
| Unit: | | tonnes | | | |
| Basis of Estimate Cd: | | | | | |
| Basis of Estimate Desc: | | | | | |

| | | | | | |
|-------------------------------------|------------------------|---------|---------------|--|--------------------------|
| 13 | 31 of 40 | NW/79.1 | 207.1 / -1.79 | TRISTAR COATINGS LTD. 18 CADETTA ROAD NOT AVAILABLE BRAMPTON ON L6P0X4 | NPRI |
| NPRI ID: | 4425 | | | Org ID: | 103016 |
| Other ID: | | | | Submit Date: | 6/11/2014 |
| No Other ID: | | | | Last Modified: | 5/29/2015 3:28:24 PM |
| Track ID: | 122953 | | | Contact ID: | 230549 |
| Report ID: | 28930 | | | Cont Type: | MED |
| Report Type: | NPRI | | | Contact Title: | |
| Rpt Type ID: | 1 | | | Cont First Name: | BRIAN |
| Report Year: | 2013 | | | Cont Last Name: | WHISTON |
| Not-Current Rpt?: | No | | | Contact Position: | PRESIDENT |
| Yr of Last Filed Rpt: | 2014 | | | Contact Fax: | |
| Fac ID: | 224562 | | | Contact Ph.: | 9057941100 |
| Fac Name: | TRISTAR COATINGS LTD. | | | Cont Area Code: | 905 |
| Fac Address1: | 18 CADETTA ROAD | | | Contact Tel.: | 57941100 |
| Fac Address2: | NOT AVAILABLE | | | Contact Ext.: | 16 |
| Fac Postal Zip: | L6P0X4 | | | Cont Fax Area Cde: | |
| Facility Lat: | 43.8144 | | | Contact Fax: | |
| Facility Long: | -79.6805 | | | Contact Email: | BRIAN@TRISTARCOATINGS.CA |
| DLS (Last Filed Rpt): | | | | Latitude: | 43.8144 |
| Facility DLS: | | | | Longitude: | -79.6805 |
| Datum: | 1983 | | | UTM Zone: | |
| Facility Cmnts: | | | | UTM Northing: | |
| URL: | www.tristarcoatings.ca | | | UTM Easting: | |
| No of Empl.: | 20 | | | 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: | | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--|-------------------|---|------------------|------|----|
| NAICS Code (2 digit): | | 32 | | | |
| NAICS 2 Description: | | Manufacturing | | | |
| NAICS Code (4 digit): | | 3255 | | | |
| NAICS 4 Description: | | Paint, coating and adhesive manufacturing | | | |
| NAICS Code (6 digit): | | 325510 | | | |
| NAICS 6 Description: | | Paint and coating manufacturing | | | |
| <u>Substance Release Report</u> | | | | | |
| Category Type ID: | | 13 | | | |
| Category Type Desc: | | All Media | | | |
| Category Type Desc (fr): | | Rejets à tous les médias | | | |
| Grouping: | | Total All Media<1t | | | |
| Trans Code: | | | | | |
| Chem: | | Isopropyl alcohol | | | |
| Chem (fr): | | Alcool iso-propylique | | | |
| Quantity: | | .082 | | | |
| Unit: | | tonnes | | | |
| Basis of Estimate Cd: | | O | | | |
| Basis of Estimate Desc: | | O- Engineering Estimates | | | |
| Category Type ID: | | 13 | | | |
| Category Type Desc: | | All Media | | | |
| Category Type Desc (fr): | | Rejets à tous les médias | | | |
| Grouping: | | Total All Media<1t | | | |
| Trans Code: | | | | | |
| Chem: | | Toluene | | | |
| Chem (fr): | | Toluène | | | |
| Quantity: | | .295 | | | |
| Unit: | | tonnes | | | |
| Basis of Estimate Cd: | | O | | | |
| Basis of Estimate Desc: | | O- Engineering Estimates | | | |
| Category Type ID: | | 13 | | | |
| Category Type Desc: | | All Media | | | |
| Category Type Desc (fr): | | Rejets à tous les médias | | | |
| Grouping: | | Total All Media<1t | | | |
| Trans Code: | | | | | |
| Chem: | | Xylene (all isomers) | | | |
| Chem (fr): | | Xylène (tous les isomères) | | | |
| Quantity: | | .747 | | | |
| Unit: | | tonnes | | | |
| Basis of Estimate Cd: | | O | | | |
| Basis of Estimate Desc: | | O- Engineering Estimates | | | |
| Category Type ID: | | 13 | | | |
| Category Type Desc: | | All Media | | | |
| Category Type Desc (fr): | | Rejets à tous les médias | | | |
| Grouping: | | Total All Media<1t | | | |
| Trans Code: | | | | | |
| Chem: | | Methyl ethyl ketone | | | |
| Chem (fr): | | Méthyléthylcétone | | | |
| Quantity: | | .227 | | | |
| Unit: | | tonnes | | | |
| Basis of Estimate Cd: | | O | | | |
| Basis of Estimate Desc: | | O- Engineering Estimates | | | |

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NW/79.1

207.1 / -1.79

TRISTAR COATINGS LTD
18 CADETTA ROAD NOT AVAILABLE
BRAMPTON ON L6P0X4

NPRI

NPRI ID: 4425
Other ID: N
No Other ID:

Org ID: 70696
Submit Date: 6/24/2005
Last Modified: 5/29/2015 3:28:24 PM

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|-------------------------------------|---|----------------------------|------------------|---------------------------|------------------------|
| Track ID: | 29812 | | | Contact ID: | 188563 |
| Report ID: | 90500 | | | Cont Type: | MED |
| Report Type: | NPRI | | | Contact Title: | |
| Rpt Type ID: | 1 | | | Cont First Name: | MICHAEL |
| Report Year: | 2004 | | | Cont Last Name: | SHILLUM |
| Not-Current Rpt?: | No | | | Contact Position: | GENERAL MANAGER |
| Yr of Last Filed Rpt: | 2014 | | | Contact Fax: | 9057940304 |
| Fac ID: | 224562 | | | Contact Ph.: | 9057941100 |
| Fac Name: | TRISTAR COATINGS LTD. | | | Cont Area Code: | 905 |
| Fac Address1: | 18 CADETTA ROAD | | | Contact Tel.: | 57941100 |
| Fac Address2: | NOT AVAILABLE | | | Contact Ext.: | 19 |
| Fac Postal Zip: | L6P0X4 | | | Cont Fax Area Cde: | 905 |
| Facility Lat: | 43.8144 | | | Contact Fax: | 57940304 |
| Facility Long: | -79.6805 | | | Contact Email: | RMS@TRISTARCOATINGS.CA |
| DLS (Last Filed Rpt): | | | | Latitude: | 43.8144 |
| Facility DLS: | | | | Longitude: | -79.6805 |
| Datum: | 1983 | | | UTM Zone: | |
| Facility Cmnts: | True | | | UTM Northing: | |
| URL: | www.tristarcoating.ca | | | UTM Easting: | |
| No of Empl.: | 17 | | | Waste Streams: | False |
| Parent Co.: | N | | | No Streams: | |
| No Parent Co.: | | | | Waste Off Sites: | Fals |
| Pollut Prev Cmnts: | True | | | No Off Sites: | 1 |
| Stacks: | No | | | 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): | 32 | | | | |
| NAICS 2 Description: | Manufacturing | | | | |
| NAICS Code (4 digit): | 3255 | | | | |
| NAICS 4 Description: | Paint, coating and adhesive manufacturing | | | | |
| NAICS Code (6 digit): | 325510 | | | | |
| NAICS 6 Description: | Paint and coating manufacturing | | | | |

Substance Release Report

Category Type ID: 3
Category Type Desc: Fugitive
Category Type Desc (fr): Émissions fugitives
Grouping: Total Air
Trans Code: VOCs
Chem: Xylene (all isomers)
Chem (fr): Xylène (tous les isomères)
Quantity: 3.27
Unit: tonnes
Basis of Estimate Cd: O
Basis of Estimate Desc: O- Engineering Estimates

Category Type ID: 13
Category Type Desc: All Media
Category Type Desc (fr): Rejets à tous les médias
Grouping: Total All Media<1t
Trans Code:
Chem: Methyl ethyl ketone
Chem (fr): Méthyléthylcétone
Quantity: .367
Unit: tonnes
Basis of Estimate Cd:
Basis of Estimate Desc:

Category Type ID: 13
Category Type Desc: All Media
Category Type Desc (fr): Rejets à tous les médias

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|---------------------------------|--------------------------|--|--------------------------|-------------|-----------|
| Grouping: | | Total All Media<1t | | | |
| Trans Code: | | | | | |
| Chem: | | GE - Diethylene glycol butyl ether (DEGBE) | | | |
| Chem (fr): | | EG - Éther butylique de diéthylèneglycol (DEGBE) | | | |
| Quantity: | | .103 | | | |
| Unit: | | tonnes | | | |
| Basis of Estimate Cd: | | | | | |
| Basis of Estimate Desc: | | | | | |
| Category Type ID: | | 13 | | | |
| Category Type Desc: | | All Media | | | |
| Category Type Desc (fr): | | Rejets à tous les médias | | | |
| Grouping: | | Total All Media<1t | | | |
| Trans Code: | | | | | |
| Chem: | | Ethyl acetate | | | |
| Chem (fr): | | Acétate d'éthyle | | | |
| Quantity: | | .2 | | | |
| Unit: | | tonnes | | | |
| Basis of Estimate Cd: | | | | | |
| Basis of Estimate Desc: | | | | | |
| Category Type ID: | | 13 | | | |
| Category Type Desc: | | All Media | | | |
| Category Type Desc (fr): | | Rejets à tous les médias | | | |
| Grouping: | | Total All Media<1t | | | |
| Trans Code: | | | | | |
| Chem: | | Heavy aromatic solvent naphtha | | | |
| Chem (fr): | | Solvant naphta aromatique lourd | | | |
| Quantity: | | .105 | | | |
| Unit: | | tonnes | | | |
| Basis of Estimate Cd: | | | | | |
| Basis of Estimate Desc: | | | | | |
| Category Type ID: | | 13 | | | |
| Category Type Desc: | | All Media | | | |
| Category Type Desc (fr): | | Rejets à tous les médias | | | |
| Grouping: | | Total All Media<1t | | | |
| Trans Code: | | | | | |
| Chem: | | GE - Ethylene glycol propyl ether (EGPE) | | | |
| Chem (fr): | | EG - Éther propylique d'éthylèneglycol (EGPE) | | | |
| Quantity: | | .107 | | | |
| Unit: | | tonnes | | | |
| Basis of Estimate Cd: | | | | | |
| Basis of Estimate Desc: | | | | | |
| Category Type ID: | | 13 | | | |
| Category Type Desc: | | All Media | | | |
| Category Type Desc (fr): | | Rejets à tous les médias | | | |
| Grouping: | | Total All Media<1t | | | |
| Trans Code: | | | | | |
| Chem: | | Toluene | | | |
| Chem (fr): | | Toluène | | | |
| Quantity: | | .691 | | | |
| Unit: | | tonnes | | | |
| Basis of Estimate Cd: | | | | | |
| Basis of Estimate Desc: | | | | | |
| Category Type ID: | | 13 | | | |
| Category Type Desc: | | All Media | | | |
| Category Type Desc (fr): | | Rejets à tous les médias | | | |
| Grouping: | | Total All Media<1t | | | |
| Trans Code: | | | | | |
| Chem: | | GE - Propylene glycol methyl ether acetate (PGMEA) | | | |
| Chem (fr): | | EG - Acétate d'éther méthylique de propylèneglycol (PGMEA) | | | |
| Quantity: | | .216 | | | |
| Unit: | | tonnes | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--------------------------------|-------------------|----------------------------|------------------|------|----|
| Basis of Estimate Cd: | | | | | |
| Basis of Estimate Desc: | | | | | |

| | | | | | |
|-------------------------------------|---|---------|---------------|---|----------------------|
| 13 | 33 of 40 | NW/79.1 | 207.1 / -1.79 | TRISTAR COATINGS LTD 18 CADETTA ROAD NOT AVAILABLE BRAMPTON ON L6P0X4 | NPRI |
| NPRI ID: | 4425 | | | Org ID: | 70696 |
| Other ID: | N | | | Submit Date: | 5/26/2008 |
| No Other ID: | | | | Last Modified: | 5/29/2015 3:28:24 PM |
| Track ID: | 53696 | | | Contact ID: | 234830 |
| Report ID: | 113625 | | | Cont Type: | MED |
| Report Type: | NPRI | | | Contact Title: | |
| Rpt Type ID: | 1 | | | Cont First Name: | |
| Report Year: | 2007 | | | Cont Last Name: | |
| Not-Current Rpt?: | No | | | Contact Position: | |
| Yr of Last Filed Rpt: | 2014 | | | Contact Fax: | |
| Fac ID: | 224562 | | | Contact Ph.: | |
| Fac Name: | TRISTAR COATINGS LTD. | | | Cont Area Code: | |
| Fac Address1: | 18 CADETTA ROAD | | | Contact Tel.: | |
| Fac Address2: | NOT AVAILABLE | | | Contact Ext.: | |
| Fac Postal Zip: | L6P0X4 | | | Cont Fax Area Cde: | |
| Facility Lat: | 43.8144 | | | Contact Fax: | |
| Facility Long: | -79.6805 | | | Contact Email: | |
| DLS (Last Filed Rpt): | | | | Latitude: | 43.8144 |
| Facility DLS: | | | | Longitude: | -79.6805 |
| Datum: | 1983 | | | UTM Zone: | |
| Facility Cmnts: | False | | | UTM Northing: | |
| URL: | www.tristarcoating.ca | | | UTM Easting: | |
| No of Empl.: | 19 | | | Waste Streams: | True? |
| Parent Co.: | N | | | 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): | 32 | | | | |
| NAICS 2 Description: | Manufacturing | | | | |
| NAICS Code (4 digit): | 3255 | | | | |
| NAICS 4 Description: | Paint, coating and adhesive manufacturing | | | | |
| NAICS Code (6 digit): | 325510 | | | | |
| NAICS 6 Description: | Paint and coating manufacturing | | | | |

Substance Release Report

| | |
|---------------------------------|--------------------------|
| Category Type ID: | 13 |
| Category Type Desc: | All Media |
| Category Type Desc (fr): | Rejets à tous les médias |
| Grouping: | Total All Media<1t |
| Trans Code: | |
| Chem: | Methyl ethyl ketone |
| Chem (fr): | Méthyléthylcétone |
| Quantity: | .749 |
| Unit: | tonnes |
| Basis of Estimate Cd: | |
| Basis of Estimate Desc: | |

| | |
|---------------------------------|--------------------------|
| Category Type ID: | 13 |
| Category Type Desc: | All Media |
| Category Type Desc (fr): | Rejets à tous les médias |
| Grouping: | Total All Media<1t |

| <i>Map Key</i> | <i>Number of Records</i> | <i>Direction/ Distance (m)</i> | <i>Elev/Diff (m)</i> | <i>Site</i> | <i>DB</i> |
|---------------------------------|--------------------------|--|----------------------|-------------|-----------|
| Trans Code: | | | | | |
| Chem: | | GE - Diethylene glycol butyl ether (DEGBE) | | | |
| Chem (fr): | | EG - Éther butylique de diéthylèneglycol (DEGBE) | | | |
| Quantity: | | .026 | | | |
| Unit: | | tonnes | | | |
| Basis of Estimate Cd: | | | | | |
| Basis of Estimate Desc: | | | | | |
| Category Type ID: | | 3 | | | |
| Category Type Desc: | | Fugitive | | | |
| Category Type Desc (fr): | | Émissions fugitives | | | |
| Grouping: | | Total Air | | | |
| Trans Code: | | VOCs | | | |
| Chem: | | GE - Propylene glycol methyl ether acetate (PGMEA) | | | |
| Chem (fr): | | EG - Acétate d'éther méthylique de propylèneglycol (PGMEA) | | | |
| Quantity: | | 217.55 | | | |
| Unit: | | tonnes | | | |
| Basis of Estimate Cd: | | O | | | |
| Basis of Estimate Desc: | | O- Engineering Estimates | | | |
| Category Type ID: | | 13 | | | |
| Category Type Desc: | | All Media | | | |
| Category Type Desc (fr): | | Rejets à tous les médias | | | |
| Grouping: | | Total All Media<1t | | | |
| Trans Code: | | | | | |
| Chem: | | MSG#2 - Hydrotreated light distillate | | | |
| Chem (fr): | | EMG#2 - Distillat léger hydrotraité | | | |
| Quantity: | | .242 | | | |
| Unit: | | tonnes | | | |
| Basis of Estimate Cd: | | | | | |
| Basis of Estimate Desc: | | | | | |
| Category Type ID: | | 13 | | | |
| Category Type Desc: | | All Media | | | |
| Category Type Desc (fr): | | Rejets à tous les médias | | | |
| Grouping: | | Total All Media<1t | | | |
| Trans Code: | | | | | |
| Chem: | | Ethyl acetate | | | |
| Chem (fr): | | Acétate d'éthyle | | | |
| Quantity: | | .162 | | | |
| Unit: | | tonnes | | | |
| Basis of Estimate Cd: | | | | | |
| Basis of Estimate Desc: | | | | | |
| Category Type ID: | | 13 | | | |
| Category Type Desc: | | All Media | | | |
| Category Type Desc (fr): | | Rejets à tous les médias | | | |
| Grouping: | | Total All Media<1t | | | |
| Trans Code: | | | | | |
| Chem: | | Xylene (all isomers) | | | |
| Chem (fr): | | Xylène (tous les isomères) | | | |
| Quantity: | | .46 | | | |
| Unit: | | tonnes | | | |
| Basis of Estimate Cd: | | | | | |
| Basis of Estimate Desc: | | | | | |
| Category Type ID: | | 13 | | | |
| Category Type Desc: | | All Media | | | |
| Category Type Desc (fr): | | Rejets à tous les médias | | | |
| Grouping: | | Total All Media<1t | | | |
| Trans Code: | | | | | |
| Chem: | | MSG#1 - Solvent naphtha light aliphatic | | | |
| Chem (fr): | | EMG#1 - Solvant naphtha aliphatique léger | | | |
| Quantity: | | .002 | | | |
| Unit: | | tonnes | | | |
| Basis of Estimate Cd: | | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|-------------------------------------|---|----------------------------|----------------------|--|-------------|
| Basis of Estimate Desc: | | | | | |
| Category Type ID: | 3 | | | | |
| Category Type Desc: | Fugitive | | | | |
| Category Type Desc (fr): | Émissions fugitives | | | | |
| Grouping: | Total Air | | | | |
| Trans Code: | VOCs | | | | |
| Chem: | Toluene | | | | |
| Chem (fr): | Toluène | | | | |
| Quantity: | 1.1 | | | | |
| Unit: | tonnes | | | | |
| Basis of Estimate Cd: | O | | | | |
| Basis of Estimate Desc: | O- Engineering Estimates | | | | |
| Category Type ID: | 13 | | | | |
| Category Type Desc: | All Media | | | | |
| Category Type Desc (fr): | Rejets à tous les médias | | | | |
| Grouping: | Total All Media<1t | | | | |
| Trans Code: | | | | | |
| Chem: | MSG#1 - Solvent naphtha medium aliphatic | | | | |
| Chem (fr): | EMG#1 - Solvant naphtha aliphatique moyen | | | | |
| Quantity: | .011 | | | | |
| Unit: | tonnes | | | | |
| Basis of Estimate Cd: | | | | | |
| Basis of Estimate Desc: | | | | | |
| 13 | 34 of 40 | NW/79.1 | 207.1 / -1.79 | TRISTAR COATINGS LTD 18 CADETTA ROAD NOT AVAILABLE BRAMPTON ON L6P0X4 | NPRI |
| NPRI ID: | 4425 | | | Org ID: 70696 | |
| Other ID: | N | | | Submit Date: 8/27/2007 | |
| No Other ID: | | | | Last Modified: 5/29/2015 3:28:24 PM | |
| Track ID: | 51515 | | | Contact ID: 234830 | |
| Report ID: | 111969 | | | Cont Type: MED | |
| Report Type: | NPRI | | | Contact Title: | |
| Rpt Type ID: | 1 | | | Cont First Name: | |
| Report Year: | 2006 | | | Cont Last Name: | |
| Not-Current Rpt?: | No | | | Contact Position: | |
| Yr of Last Filed Rpt: | 2014 | | | Contact Fax: | |
| Fac ID: | 224562 | | | Contact Ph.: | |
| Fac Name: | TRISTAR COATINGS LTD. | | | Cont Area Code: | |
| Fac Address1: | 18 CADETTA ROAD | | | Contact Tel.: | |
| Fac Address2: | NOT AVAILABLE | | | Contact Ext.: | |
| Fac Postal Zip: | L6P0X4 | | | Cont Fax Area Cde: | |
| Facility Lat: | 43.8144 | | | Contact Fax: | |
| Facility Long: | -79.6805 | | | Contact Email: | |
| DLS (Last Filed Rpt): | | | | Latitude: 43.8144 | |
| Facility DLS: | | | | Longitude: -79.6805 | |
| Datum: | 1983 | | | UTM Zone: | |
| Facility Cmnts: | False | | | UTM Northing: | |
| URL: | www.tristarcoating.ca | | | UTM Easting: | |
| No of Empl.: | 19 | | | Waste Streams: True? | |
| Parent Co.: | N | | | No Streams: | |
| No Parent Co.: | | | | Waste Off Sites: Fals | |
| Pollut Prev Cmnts: | False | | | No Off Sites: 1.00 | |
| 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): | 32 | | | | |
| NAICS 2 Description: | Manufacturing | | | | |
| NAICS Code (4 digit): | 3255 | | | | |

| <i>Map Key</i> | <i>Number of Records</i> | <i>Direction/ Distance (m)</i> | <i>Elev/Diff (m)</i> | <i>Site</i> | <i>DB</i> |
|--|--------------------------|--------------------------------|----------------------|--|-----------|
| NAICS 4 Description: | | | | Paint, coating and adhesive manufacturing | |
| NAICS Code (6 digit): | | | | 325510 | |
| NAICS 6 Description: | | | | Paint and coating manufacturing | |
| <u>Substance Release Report</u> | | | | | |
| Category Type ID: | | | | 13 | |
| Category Type Desc: | | | | All Media | |
| Category Type Desc (fr): | | | | Rejets à tous les médias | |
| Grouping: | | | | Total All Media<1t | |
| Trans Code: | | | | | |
| Chem: | | | | MSG#2 - Hydrotreated light distillate | |
| Chem (fr): | | | | EMG#2 - Distillat léger hydrotraité | |
| Quantity: | | | | .501 | |
| Unit: | | | | tonnes | |
| Basis of Estimate Cd: | | | | | |
| Basis of Estimate Desc: | | | | | |
| Category Type ID: | | | | 13 | |
| Category Type Desc: | | | | All Media | |
| Category Type Desc (fr): | | | | Rejets à tous les médias | |
| Grouping: | | | | Total All Media<1t | |
| Trans Code: | | | | | |
| Chem: | | | | Ethyl acetate | |
| Chem (fr): | | | | Acétate d'éthyle | |
| Quantity: | | | | .018 | |
| Unit: | | | | tonnes | |
| Basis of Estimate Cd: | | | | | |
| Basis of Estimate Desc: | | | | | |
| Category Type ID: | | | | 13 | |
| Category Type Desc: | | | | All Media | |
| Category Type Desc (fr): | | | | Rejets à tous les médias | |
| Grouping: | | | | Total All Media<1t | |
| Trans Code: | | | | | |
| Chem: | | | | Methyl ethyl ketone | |
| Chem (fr): | | | | Méthyléthylcétone | |
| Quantity: | | | | .749 | |
| Unit: | | | | tonnes | |
| Basis of Estimate Cd: | | | | | |
| Basis of Estimate Desc: | | | | | |
| Category Type ID: | | | | 13 | |
| Category Type Desc: | | | | All Media | |
| Category Type Desc (fr): | | | | Rejets à tous les médias | |
| Grouping: | | | | Total All Media<1t | |
| Trans Code: | | | | | |
| Chem: | | | | Xylene (all isomers) | |
| Chem (fr): | | | | Xylène (tous les isomères) | |
| Quantity: | | | | .614 | |
| Unit: | | | | tonnes | |
| Basis of Estimate Cd: | | | | | |
| Basis of Estimate Desc: | | | | | |
| Category Type ID: | | | | 13 | |
| Category Type Desc: | | | | All Media | |
| Category Type Desc (fr): | | | | Rejets à tous les médias | |
| Grouping: | | | | Total All Media<1t | |
| Trans Code: | | | | | |
| Chem: | | | | GE - Diethylene glycol butyl ether (DEGBE) | |
| Chem (fr): | | | | EG - Éther butylique de diéthylèneglycol (DEGBE) | |
| Quantity: | | | | .092 | |
| Unit: | | | | tonnes | |
| Basis of Estimate Cd: | | | | | |
| Basis of Estimate Desc: | | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|-------------------------------------|---|------------------------------------|--------------------------|---------------------------|-----------|
| Fac Address1: | 18 CADETTA ROAD | | | Contact Tel.: | |
| Fac Address2: | NOT AVAILABLE | | | Contact Ext.: | |
| Fac Postal Zip: | L6P0X4 | | | Cont Fax Area Cde: | |
| Facility Lat: | 43.8144 | | | Contact Fax: | |
| Facility Long: | -79.6805 | | | Contact Email: | |
| DLS (Last Filed Rpt): | | | | Latitude: | 43.8144 |
| Facility DLS: | | | | Longitude: | -79.6805 |
| Datum: | 1983 | | | UTM Zone: | |
| Facility Cmnts: | No | | | UTM Northing: | |
| URL: | | | | UTM Easting: | |
| No of Empl.: | 18 | | | Waste Streams: | No |
| Parent Co.: | * | | | No Streams: | |
| No Parent Co.: | | | | Waste Off Sites: | Yes |
| Pollut Prev Cmnts: | No | | | No Off Sites: | 1 |
| 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): | 32 | | | | |
| NAICS 2 Description: | Manufacturing | | | | |
| NAICS Code (4 digit): | 3255 | | | | |
| NAICS 4 Description: | Paint, coating and adhesive manufacturing | | | | |
| NAICS Code (6 digit): | 325510 | | | | |
| NAICS 6 Description: | Paint and coating manufacturing | | | | |

Substance Release Report

Category Type ID: 13
Category Type Desc: All Media
Category Type Desc (fr): Rejets à tous les médias
Grouping: Total All Media<1t
Trans Code:
Chem: Methyl ethyl ketone
Chem (fr): Méthyléthylcétone
Quantity: .383
Unit: tonnes
Basis of Estimate Cd:
Basis of Estimate Desc:

Category Type ID: 13
Category Type Desc: All Media
Category Type Desc (fr): Rejets à tous les médias
Grouping: Total All Media<1t
Trans Code:
Chem: Xylene (all isomers)
Chem (fr): Xylène (tous les isomères)
Quantity: .443
Unit: tonnes
Basis of Estimate Cd:
Basis of Estimate Desc:

Category Type ID: 13
Category Type Desc: All Media
Category Type Desc (fr): Rejets à tous les médias
Grouping: Total All Media<1t
Trans Code:
Chem: Toluene
Chem (fr): Toluène
Quantity: .644
Unit: tonnes
Basis of Estimate Cd:
Basis of Estimate Desc:

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--|-------------------|--|---------------|--|------|
| 13 | 36 of 40 | NW/79.1 | 207.1 / -1.79 | Tristar Coatings Ltd. 18 CADETTA ROAD NOT AVAILABLE BRAMPTON ON L6P0X4 | NPRI |
| NPRI ID: 4425 Other ID: No Other ID: Track ID: 135729 Report ID: 68242 Report Type: NPRI Rpt Type ID: 1 Report Year: 2015 Not-Current Rpt?: No Yr of Last Filed Rpt: 2014 Fac ID: 224562 Fac Name: TRISTAR COATINGS LTD. Fac Address1: 18 CADETTA ROAD Fac Address2: NOT AVAILABLE Fac Postal Zip: L6P0X4 Facility Lat: 43.8144 Facility Long: -79.6805 DLS (Last Filed Rpt): Facility DLS: Datum: 1983 Facility Cmnts: URL: No of Empl.: 20 Parent Co.: No Parent Co.: Pollut Prev Cmnts: Stacks: No of Stacks: Canadian SIC Code (2 digit): Canadian SIC Code: SIC Code Description: American SIC Code: NAICS Code (2 digit): 32 NAICS 2 Description: Manufacturing NAICS Code (4 digit): 3255 NAICS 4 Description: Paint, coating and adhesive manufacturing NAICS Code (6 digit): 325510 NAICS 6 Description: Paint and coating manufacturing | | Org ID: 107081 Submit Date: 4/8/2016 Last Modified: 11/18/2016 8:28:05 AM Contact ID: 241778 Cont Type: MEM Contact Title: Cont First Name: NOT AVAILABLE Cont Last Name: NOT AVAILABLE Contact Position: Contact Fax: Contact Ph.: 0 Cont Area Code: 0 Contact Tel.: Contact Ext.: Cont Fax Area Cde: Contact Fax: Contact Email: NOT AVAILABLE Latitude: 43.8144 Longitude: -79.6805 UTM Zone: UTM Northing: UTM Easting: Waste Streams: No Streams: Waste Off Sites: No Off Sites: Shutdown: No of Shutdown: | | | |
| <u>Substance Release Report</u> | | | | | |
| Category Type ID: 13 Category Type Desc: All Media Category Type Desc (fr): Rejets à tous les médias Grouping: Total All Media<1t Trans Code: Chem: Chem (fr): Quantity: .084 Unit: tonnes Basis of Estimate Cd: O Basis of Estimate Desc: O- Engineering Estimates | | Category Type ID: 13 Category Type Desc: All Media Category Type Desc (fr): Rejets à tous les médias Grouping: Total All Media<1t Trans Code: Chem: Chem (fr): | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|---------------------------------|-------------------|----------------------------|------------------|------|----|
| Quantity: | | .25 | | | |
| Unit: | | tonnes | | | |
| Basis of Estimate Cd: | | O | | | |
| Basis of Estimate Desc: | | O- Engineering Estimates | | | |
| Category Type ID: | | 13 | | | |
| Category Type Desc: | | All Media | | | |
| Category Type Desc (fr): | | Rejets à tous les médias | | | |
| Grouping: | | Total All Media<1t | | | |
| Trans Code: | | | | | |
| Chem: | | | | | |
| Chem (fr): | | | | | |
| Quantity: | | .417 | | | |
| Unit: | | tonnes | | | |
| Basis of Estimate Cd: | | O | | | |
| Basis of Estimate Desc: | | O- Engineering Estimates | | | |
| Category Type ID: | | 13 | | | |
| Category Type Desc: | | All Media | | | |
| Category Type Desc (fr): | | Rejets à tous les médias | | | |
| Grouping: | | Total All Media<1t | | | |
| Trans Code: | | | | | |
| Chem: | | | | | |
| Chem (fr): | | | | | |
| Quantity: | | .624 | | | |
| Unit: | | tonnes | | | |
| Basis of Estimate Cd: | | O | | | |
| Basis of Estimate Desc: | | O- Engineering Estimates | | | |

| 13 | 37 of 40 | NW/79.1 | 207.1 / -1.79 | TREBOR INDUSTRIES 18 CADETTA ROAD NOT AVAILABLE BRAMPTON ON L6P0X4 | NPRI |
|-------------------------------------|-----------------------|---------|---------------|--|---------------------------|
| NPRI ID: | 4425 | | | Org ID: | 20851 |
| Other ID: | * | | | Submit Date: | 5/16/2000 |
| No Other ID: | 0 | | | Last Modified: | 5/29/2015 3:28:24 PM |
| Track ID: | 12209 | | | Contact ID: | 99358 |
| Report ID: | | | | Cont Type: | MED |
| Report Type: | NPRI | | | Contact Title: | |
| Rpt Type ID: | 1 | | | Cont First Name: | MICHAEL |
| Report Year: | 1999 | | | Cont Last Name: | SHILLUM |
| Not-Current Rpt?: | No | | | Contact Position: | GENERAL MANAGER |
| Yr of Last Filed Rpt: | 2014 | | | Contact Fax: | 9057940304 |
| Fac ID: | 224562 | | | Contact Ph.: | 9057941100 |
| Fac Name: | TRISTAR COATINGS LTD. | | | Cont Area Code: | 905 |
| Fac Address1: | 18 CADETTA ROAD | | | Contact Tel.: | 57941100 |
| Fac Address2: | NOT AVAILABLE | | | Contact Ext.: | |
| Fac Postal Zip: | L6P0X4 | | | Cont Fax Area Cde: | 905 |
| Facility Lat: | 43.8144 | | | Contact Fax: | 57940304 |
| Facility Long: | -79.6805 | | | Contact Email: | RMS@TRISTARCOATINGS.ON.CA |
| DLS (Last Filed Rpt): | | | | Latitude: | 43.8144 |
| Facility DLS: | | | | Longitude: | -79.6805 |
| Datum: | 1983 | | | UTM Zone: | 17 |
| Facility Cmnts: | False | | | UTM Northing: | 4852100 |
| URL: | | | | UTM Easting: | 606300 |
| No of Empl.: | 17 | | | Waste Streams: | Yes |
| Parent Co.: | * | | | No Streams: | 0 |
| No Parent Co.: | 1 | | | Waste Off Sites: | Yes |
| Pollut Prev Cmnts: | False | | | No Off Sites: | 0 |
| Stacks: | | | | Shutdown: | |
| No of Stacks: | | | | No of Shutdown: | |
| Canadian SIC Code (2 digit): | | | | | |
| Canadian SIC Code: | | | | | |
| SIC Code Description: | | | | | |
| American SIC Code: | | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--|-------------------|--|------------------|------|----|
| NAICS Code (2 digit): NAICS 2 Description: NAICS Code (4 digit): NAICS 4 Description: NAICS Code (6 digit): NAICS 6 Description: | | 32 Manufacturing 3255 Paint, coating and adhesive manufacturing 325510 Paint and coating manufacturing | | | |
| <u>Substance Release Report</u> | | | | | |
| Category Type ID: Category Type Desc: Category Type Desc (fr): Grouping: Trans Code: Chem: Chem (fr): Quantity: Unit: Basis of Estimate Cd: Basis of Estimate Desc: | | 2 Storage / Handling Rejets de stockage ou manutention Total Air VOCg Xylene (mixed isomers) Xylène (mélange d'isomères) .1 tonnes C C- Mass Balance | | | |
| Category Type ID: Category Type Desc: Category Type Desc (fr): Grouping: Trans Code: Chem: Chem (fr): Quantity: Unit: Basis of Estimate Cd: Basis of Estimate Desc: | | 3 Fugitive Émissions fugitives Total Air VOCs Xylene (mixed isomers) Xylène (mélange d'isomères) .1 tonnes O O- Engineering Estimates | | | |
| Category Type ID: Category Type Desc: Category Type Desc (fr): Grouping: Trans Code: Chem: Chem (fr): Quantity: Unit: Basis of Estimate Cd: Basis of Estimate Desc: | | 3 Fugitive Émissions fugitives Total Air VOCs Methyl ethyl ketone Méthyléthylcétone .225 tonnes O O- Engineering Estimates | | | |
| Category Type ID: Category Type Desc: Category Type Desc (fr): Grouping: Trans Code: Chem: Chem (fr): Quantity: Unit: Basis of Estimate Cd: Basis of Estimate Desc: | | 3 Fugitive Émissions fugitives Total Air VOCs Toluene Toluène .1 tonnes O O- Engineering Estimates | | | |

| | | | | | |
|---------------------|----------|---------|---------------|---|----------------------|
| 13 | 38 of 40 | NW/79.1 | 207.1 / -1.79 | TRISTAR COATINGS LTD 18 CADETTA ROAD NOT AVAILABLE BRAMPTON ON L6P0X4 | NPRI |
| NPRI ID: | 4425 | | | Org ID: | 70696 |
| Other ID: | N | | | Submit Date: | 5/18/2010 |
| No Other ID: | | | | Last Modified: | 5/29/2015 3:28:24 PM |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|-------------------------------------|---|-------------------------|---------------|---------------------------|----------|
| Track ID: | 84882 | | | Contact ID: | 234830 |
| Report ID: | 138752 | | | Cont Type: | MED |
| Report Type: | NPRI | | | Contact Title: | |
| Rpt Type ID: | 1 | | | Cont First Name: | |
| Report Year: | 2009 | | | Cont Last Name: | |
| Not-Current Rpt?: | No | | | Contact Position: | |
| Yr of Last Filed Rpt: | 2014 | | | Contact Fax: | |
| Fac ID: | 224562 | | | Contact Ph.: | |
| Fac Name: | TRISTAR COATINGS LTD. | | | Cont Area Code: | |
| Fac Address1: | 18 CADETTA ROAD | | | Contact Tel.: | |
| Fac Address2: | NOT AVAILABLE | | | Contact Ext.: | |
| Fac Postal Zip: | L6P0X4 | | | Cont Fax Area Cde: | |
| Facility Lat: | 43.8144 | | | Contact Fax: | |
| Facility Long: | -79.6805 | | | Contact Email: | |
| DLS (Last Filed Rpt): | | | | Latitude: | 43.8144 |
| Facility DLS: | | | | Longitude: | -79.6805 |
| Datum: | 1983 | | | UTM Zone: | |
| Facility Cmnts: | No | | | UTM Northing: | |
| URL: | www.tristarcoating.ca | | | UTM Easting: | |
| No of Empl.: | 19 | | | Waste Streams: | No |
| Parent Co.: | N | | | No Streams: | |
| No Parent Co.: | | | | Waste Off Sites: | Yes |
| Pollut Prev Cmnts: | No | | | No Off Sites: | 1 |
| 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): | 32 | | | | |
| NAICS 2 Description: | Manufacturing | | | | |
| NAICS Code (4 digit): | 3255 | | | | |
| NAICS 4 Description: | Paint, coating and adhesive manufacturing | | | | |
| NAICS Code (6 digit): | 325510 | | | | |
| NAICS 6 Description: | Paint and coating manufacturing | | | | |

Substance Release Report

Category Type ID: 13
Category Type Desc: All Media
Category Type Desc (fr): Rejets à tous les médias
Grouping: Total All Media<1t
Trans Code:
Chem: Xylene (all isomers)
Chem (fr): Xylène (tous les isomères)
Quantity: .555
Unit: tonnes
Basis of Estimate Cd:
Basis of Estimate Desc:

Category Type ID: 13
Category Type Desc: All Media
Category Type Desc (fr): Rejets à tous les médias
Grouping: Total All Media<1t
Trans Code:
Chem: Isopropyl alcohol
Chem (fr): Alcool iso-propylique
Quantity: .254
Unit: tonnes
Basis of Estimate Cd:
Basis of Estimate Desc:

Category Type ID: 13
Category Type Desc: All Media
Category Type Desc (fr): Rejets à tous les médias

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|---------------------------------|-------------------|----------------------------|------------------|---|-----|
| Grouping: | | Total All Media<1t | | | |
| Trans Code: | | | | | |
| Chem: | | Methyl isobutyl ketone | | | |
| Chem (fr): | | Méthylisobutylcétone | | | |
| Quantity: | | .121 | | | |
| Unit: | | tonnes | | | |
| Basis of Estimate Cd: | | | | | |
| Basis of Estimate Desc: | | | | | |
| Category Type ID: | | 13 | | | |
| Category Type Desc: | | All Media | | | |
| Category Type Desc (fr): | | Rejets à tous les médias | | | |
| Grouping: | | Total All Media<1t | | | |
| Trans Code: | | | | | |
| Chem: | | Methyl ethyl ketone | | | |
| Chem (fr): | | Méthyléthylcétone | | | |
| Quantity: | | .392 | | | |
| Unit: | | tonnes | | | |
| Basis of Estimate Cd: | | | | | |
| Basis of Estimate Desc: | | | | | |
| Category Type ID: | | 13 | | | |
| Category Type Desc: | | All Media | | | |
| Category Type Desc (fr): | | Rejets à tous les médias | | | |
| Grouping: | | Total All Media<1t | | | |
| Trans Code: | | | | | |
| Chem: | | Toluene | | | |
| Chem (fr): | | Toluène | | | |
| Quantity: | | .817 | | | |
| Unit: | | tonnes | | | |
| Basis of Estimate Cd: | | | | | |
| Basis of Estimate Desc: | | | | | |
| Category Type ID: | | 13 | | | |
| Category Type Desc: | | All Media | | | |
| Category Type Desc (fr): | | Rejets à tous les médias | | | |
| Grouping: | | Total All Media<1t | | | |
| Trans Code: | | | | | |
| Chem: | | n-Butyl alcohol | | | |
| Chem (fr): | | Butan-1-ol | | | |
| Quantity: | | .008 | | | |
| Unit: | | tonnes | | | |
| Basis of Estimate Cd: | | | | | |
| Basis of Estimate Desc: | | | | | |
| Category Type ID: | | 13 | | | |
| Category Type Desc: | | All Media | | | |
| Category Type Desc (fr): | | Rejets à tous les médias | | | |
| Grouping: | | Total All Media<1t | | | |
| Trans Code: | | | | | |
| Chem: | | Acetone | | | |
| Chem (fr): | | Acétone | | | |
| Quantity: | | .003 | | | |
| Unit: | | tonnes | | | |
| Basis of Estimate Cd: | | | | | |
| Basis of Estimate Desc: | | | | | |
| <u>13</u> | 39 of 40 | NW/79.1 | 207.1 / -1.79 | Tristar Coatings Ltd. 18 Cadetta Rd Brampton ON L6P 0X4 | SCT |
| Established: | | 01-JAN-71 | | | |
| Plant Size (ft²): | | 12000 | | | |
| Employment: | | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|---------|-------------------|----------------------------|------------------|------|----|
|---------|-------------------|----------------------------|------------------|------|----|

--Details--

Description: Paint and Coating Manufacturing
SIC/NAICS Code: 325510

Description: Paint and Coating Manufacturing
SIC/NAICS Code: 325510

| | | | | | |
|------------------------------|---|---------|---------------|---|-------------|
| 13 | 40 of 40 | NW/79.1 | 207.1 / -1.79 | Purolator Courier Ltd. 18 Cadetta Rd Brampton ON L6P 0X4 | SPL |
| Ref No: | 4013-7HRTVK | | | Discharger Report: | |
| Site No: | | | | Material Group: | |
| Incident Dt: | | | | Health/Env Conseq: | |
| Year: | | | | Client Type: | |
| Incident Cause: | Other Discharges | | | Sector Type: | Other |
| Incident Event: | | | | Agency Involved: | |
| Contaminant Code: | 15 | | | Nearest Watercourse: | |
| Contaminant Name: | OIL (PETROLEUM BASED, NOT SPECIFIED) | | | Site Address: | |
| Contaminant Limit 1: | | | | Site District Office: | Halton-Peel |
| Contam Limit Freq 1: | | | | Site Postal Code: | |
| Contaminant UN No 1: | | | | Site Region: | |
| Environment Impact: | Not Anticipated | | | Site Municipality: | Brampton |
| Nature of Impact: | Other Impact(s) | | | Site Lot: | |
| Receiving Medium: | | | | Site Conc: | |
| Receiving Env: | | | | Northing: | |
| MOE Response: | No Field Response | | | Easting: | |
| Dt MOE Arvl on Scn: | | | | Site Geo Ref Accu: | |
| MOE Reported Dt: | 8/22/2008 | | | Site Map Datum: | |
| Dt Document Closed: | 9/17/2008 | | | SAC Action Class: | Land Spills |
| Incident Reason: | Spill | | | Source Type: | |
| Site Name: | Tristar Coatings<UNOFFICIAL> | | | | |
| Site County/District: | | | | | |
| Site Geo Ref Meth: | | | | | |
| Incident Summary: | Purolator: 60 L oil to pavement, clning | | | | |
| Contaminant Qty: | 60 L | | | | |

| | | | | | |
|-------------------------------|--------------|----------|---------------|----------------------------|------------------------------|
| 14 | 1 of 1 | WSW/86.0 | 206.9 / -2.00 | lot 12 con 11 ON | WWIS |
| Well ID: | 4908701 | | | Data Entry Status: | |
| Construction Date: | | | | Data Src: | 1 |
| Primary Water Use: | | | | Date Received: | 2/7/2001 |
| Sec. Water Use: | | | | Selected Flag: | Yes |
| Final Well Status: | Water Supply | | | Abandonment Rec: | |
| Water Type: | | | | Contractor: | 1663 |
| Casing Material: | | | | Form Version: | 1 |
| Audit No: | 227370 | | | Owner: | |
| Tag: | | | | Street Name: | |
| Construction Method: | | | | County: | PEEL |
| Elevation (m): | | | | Municipality: | BRAMPTON CITY (TORONTO GORE) |
| Elevation Reliability: | | | | Site Info: | |
| Depth to Bedrock: | | | | Lot: | 012 |
| Well Depth: | | | | Concession: | 11 |
| Overburden/Bedrock: | | | | Concession Name: | CON |
| Pump Rate: | | | | Easting NAD83: | |
| Static Water Level: | | | | Northing NAD83: | |
| Flowing (Y/N): | | | | Zone: | |
| Flow Rate: | | | | UTM Reliability: | |
| Clear/Cloudy: | | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--------------------------------------|--------------------------|--------------------------------|----------------------|-------------------------|-------------|
| <u>Bore Hole Information</u> | | | | | |
| Bore Hole ID: | 10323236 | | | Elevation: | 206.439178 |
| DP2BR: | 0 | | | Elevrc: | |
| Spatial Status: | | | | Zone: | 17 |
| Code OB: | h | | | East83: | 605960.7 |
| Code OB Desc: | Mixed in a Layer | | | North83: | 4851853 |
| Open Hole: | | | | Org CS: | |
| Cluster Kind: | | | | UTMRC: | 9 |
| Date Completed: | 3/31/2000 | | | UTMRC Desc: | unknown UTM |
| Remarks: | | | | Location Method: | lot |
| Elevrc Desc: | | | | | |
| Location Source Date: | | | | | |
| Improvement Location Source: | | | | | |
| Improvement Location Method: | | | | | |
| Source Revision Comment: | | | | | |
| Supplier Comment: | | | | | |
| <u>Overburden and Bedrock</u> | | | | | |
| <u>Materials Interval</u> | | | | | |
| Formation ID: | 932064569 | | | | |
| Layer: | 4 | | | | |
| Color: | 2 | | | | |
| General Color: | GREY | | | | |
| Mat1: | 28 | | | | |
| Most Common Material: | SAND | | | | |
| Mat2: | 11 | | | | |
| Other Materials: | GRAVEL | | | | |
| Mat3: | 06 | | | | |
| Other Materials: | SILT | | | | |
| Formation Top Depth: | 67 | | | | |
| Formation End Depth: | 88 | | | | |
| Formation End Depth UOM: | ft | | | | |
| <u>Overburden and Bedrock</u> | | | | | |
| <u>Materials Interval</u> | | | | | |
| Formation ID: | 932064566 | | | | |
| Layer: | 1 | | | | |
| Color: | 6 | | | | |
| General Color: | BROWN | | | | |
| Mat1: | 11 | | | | |
| Most Common Material: | GRAVEL | | | | |
| Mat2: | 43 | | | | |
| Other Materials: | GYPSUM | | | | |
| Mat3: | | | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | 0 | | | | |
| Formation End Depth: | 1 | | | | |
| Formation End Depth UOM: | ft | | | | |
| <u>Overburden and Bedrock</u> | | | | | |
| <u>Materials Interval</u> | | | | | |
| Formation ID: | 932064571 | | | | |
| Layer: | 6 | | | | |
| Color: | 2 | | | | |
| General Color: | GREY | | | | |
| Mat1: | 17 | | | | |
| Most Common Material: | SHALE | | | | |
| Mat2: | | | | | |
| Other Materials: | | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|---|--------------------------|------------------------------------|--------------------------|-------------|-----------|
| Mat3: | | | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | | 89 | | | |
| Formation End Depth: | | 138 | | | |
| Formation End Depth UOM: | | ft | | | |
| | | | | | |
| <u>Overburden and Bedrock Materials Interval</u> | | | | | |
| Formation ID: | | 932064568 | | | |
| Layer: | | 3 | | | |
| Color: | | 3 | | | |
| General Color: | | BLUE | | | |
| Mat1: | | 05 | | | |
| Most Common Material: | | CLAY | | | |
| Mat2: | | 28 | | | |
| Other Materials: | | SAND | | | |
| Mat3: | | 11 | | | |
| Other Materials: | | GRAVEL | | | |
| Formation Top Depth: | | 15 | | | |
| Formation End Depth: | | 67 | | | |
| Formation End Depth UOM: | | ft | | | |
| | | | | | |
| <u>Overburden and Bedrock Materials Interval</u> | | | | | |
| Formation ID: | | 932064567 | | | |
| Layer: | | 2 | | | |
| Color: | | 6 | | | |
| General Color: | | BROWN | | | |
| Mat1: | | 05 | | | |
| Most Common Material: | | CLAY | | | |
| Mat2: | | | | | |
| Other Materials: | | | | | |
| Mat3: | | | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | | 1 | | | |
| Formation End Depth: | | 15 | | | |
| Formation End Depth UOM: | | ft | | | |
| | | | | | |
| <u>Overburden and Bedrock Materials Interval</u> | | | | | |
| Formation ID: | | 932064570 | | | |
| Layer: | | 5 | | | |
| Color: | | 3 | | | |
| General Color: | | BLUE | | | |
| Mat1: | | 05 | | | |
| Most Common Material: | | CLAY | | | |
| Mat2: | | | | | |
| Other Materials: | | | | | |
| Mat3: | | | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | | 88 | | | |
| Formation End Depth: | | 89 | | | |
| Formation End Depth UOM: | | ft | | | |
| | | | | | |
| <u>Annular Space/Abandonment Sealing Record</u> | | | | | |
| Plug ID: | | 933171289 | | | |
| Layer: | | 1 | | | |

| <i>Map Key</i> | <i>Number of Records</i> | <i>Direction/ Distance (m)</i> | <i>Elev/Diff (m)</i> | <i>Site</i> | <i>DB</i> |
|---|--------------------------|--------------------------------|----------------------|-------------|-----------|
| <i>Plug From:</i> | | 0 | | | |
| <i>Plug To:</i> | | 20 | | | |
| <i>Plug Depth UOM:</i> | | ft | | | |
| <u>Method of Construction & Well Use</u> | | | | | |
| <i>Method Construction ID:</i> | | | | | |
| <i>Method Construction Code:</i> | | 2 | | | |
| <i>Method Construction:</i> | | Rotary (Convent.) | | | |
| <i>Other Method Construction:</i> | | | | | |
| <u>Pipe Information</u> | | | | | |
| <i>Pipe ID:</i> | | 10871806 | | | |
| <i>Casing No:</i> | | 1 | | | |
| <i>Comment:</i> | | | | | |
| <i>Alt Name:</i> | | | | | |
| <u>Construction Record - Casing</u> | | | | | |
| <i>Casing ID:</i> | | 930532944 | | | |
| <i>Layer:</i> | | 1 | | | |
| <i>Material:</i> | | 1 | | | |
| <i>Open Hole or Material:</i> | | STEEL | | | |
| <i>Depth From:</i> | | | | | |
| <i>Depth To:</i> | | | | | |
| <i>Casing Diameter:</i> | | 6 | | | |
| <i>Casing Diameter UOM:</i> | | inch | | | |
| <i>Casing Depth UOM:</i> | | ft | | | |
| <u>Results of Well Yield Testing</u> | | | | | |
| <i>Pump Test ID:</i> | | 994908701 | | | |
| <i>Pump Set At:</i> | | | | | |
| <i>Static Level:</i> | | 39 | | | |
| <i>Final Level After Pumping:</i> | | 63 | | | |
| <i>Recommended Pump Depth:</i> | | 130 | | | |
| <i>Pumping Rate:</i> | | 1 | | | |
| <i>Flowing Rate:</i> | | | | | |
| <i>Recommended Pump Rate:</i> | | | | | |
| <i>Levels UOM:</i> | | ft | | | |
| <i>Rate UOM:</i> | | GPM | | | |
| <i>Water State After Test Code:</i> | | 2 | | | |
| <i>Water State After Test:</i> | | CLOUDY | | | |
| <i>Pumping Test Method:</i> | | | | | |
| <i>Pumping Duration HR:</i> | | 1 | | | |
| <i>Pumping Duration MIN:</i> | | | | | |
| <i>Flowing:</i> | | N | | | |
| <u>Draw Down & Recovery</u> | | | | | |
| <i>Pump Test Detail ID:</i> | | 934260321 | | | |
| <i>Test Type:</i> | | Draw Down | | | |
| <i>Test Duration:</i> | | 15 | | | |
| <i>Test Level:</i> | | 41 | | | |
| <i>Test Level UOM:</i> | | ft | | | |
| <u>Draw Down & Recovery</u> | | | | | |
| <i>Pump Test Detail ID:</i> | | 935045699 | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--|-------------------|-------------------------------------|------------------|--|-----|
| Test Type: | | Draw Down | | | |
| Test Duration: | | 60 | | | |
| Test Level: | | 63 | | | |
| Test Level UOM: | | ft | | | |
| <u>Draw Down & Recovery</u> | | | | | |
| Pump Test Detail ID: | | 934526210 | | | |
| Test Type: | | Draw Down | | | |
| Test Duration: | | 30 | | | |
| Test Level: | | 50 | | | |
| Test Level UOM: | | ft | | | |
| <u>Draw Down & Recovery</u> | | | | | |
| Pump Test Detail ID: | | 934779736 | | | |
| Test Type: | | Draw Down | | | |
| Test Duration: | | 45 | | | |
| Test Level: | | 59 | | | |
| Test Level UOM: | | ft | | | |
| <u>Water Details</u> | | | | | |
| Water ID: | | 933796800 | | | |
| Layer: | | 1 | | | |
| Kind Code: | | 2 | | | |
| Kind: | | SALTY | | | |
| Water Found Depth: | | 130 | | | |
| Water Found Depth UOM: | | ft | | | |
| 15 | 1 of 1 | NW/86.4 | 208.1 / -0.74 | Roma Building Restoration Ltd 20 Cadetta Rd Unit # 7 Brampton ON L6P 0X4 | GEN |
| Generator No: | | ON9271498 | | 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: | | | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | | 252 L | | | |
| Waste Class Desc: | | Waste crankcase oils and lubricants | | | |
| 16 | 1 of 4 | NW/87.7 | 208.1 / -0.74 | 20 Cadetta Road Brampton ON L6P 0X4 | EHS |
| Order No: | | 20071003030 | | Nearest Intersection: #10 Sideroad and Colraine Drive | |
| Status: | | C | | Municipality: | |
| Report Type: | | CAN - Site Report | | Client Prov/State: | |
| Report Date: | | 10/5/2007 | | Search Radius (km): 0.25 | |
| Date Received: | | 10/3/2007 | | X: -79.680452 | |
| Previous Site Name: | | | | Y: 43.815133 | |
| Lot/Building Size: | | | | | |
| Additional Info Ordered: | | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|-------------------------------|-------------------|--|------------------|--|------|
| 16 | 2 of 4 | NW/87.7 | 208.1 / -0.74 | Quality Fabricating 20 Cadetta Rd Brampton ON L6T 3Z8 | SCT |
| Established: | | 1976 | | | |
| Plant Size (ft²): | | | | | |
| Employment: | | 5 | | | |
| --Details-- | | | | | |
| Description: | | Iron and Steel Mills and Ferro-Alloy Manufacturing | | | |
| SIC/NAICS Code: | | 331110 | | | |
| Description: | | All Other Miscellaneous Fabricated Metal Product Manufacturing | | | |
| SIC/NAICS Code: | | 332999 | | | |
| 16 | 3 of 4 | NW/87.7 | 208.1 / -0.74 | Quality Fabricating & Machining Ltd. 20 Cadetta Rd Brampton ON L6T 3Z8 | SCT |
| Established: | | | | | |
| Plant Size (ft²): | | | | | |
| Employment: | | 7 | | | |
| 16 | 4 of 4 | NW/87.7 | 208.1 / -0.74 | QFM Ltd. 20 Cadetta Rd Brampton ON L6P 0X4 | SCT |
| Established: | | 1976 | | | |
| Plant Size (ft²): | | 10000 | | | |
| Employment: | | | | | |
| --Details-- | | | | | |
| Description: | | All Other Miscellaneous Fabricated Metal Product Manufacturing | | | |
| SIC/NAICS Code: | | 332999 | | | |
| 17 | 1 of 1 | N/95.3 | 209.9 / 1.00 | BRAMPTON ON | WWIS |
| Well ID: | | 7241945 | | | |
| Construction Date: | | | | | |
| Primary Water Use: | | Monitoring and Test Hole | | | |
| Sec. Water Use: | | 0 | | | |
| Final Well Status: | | Observation Wells | | | |
| Water Type: | | | | | |
| Casing Material: | | | | | |
| Audit No: | | Z208698 | | | |
| Tag: | | A181317 | | | |
| Construction Method: | | | | | |
| Elevation (m): | | | | | |
| Elevation Reliability: | | | | | |
| Depth to Bedrock: | | | | | |
| Well Depth: | | | | | |
| Overburden/Bedrock: | | | | | |
| Pump Rate: | | | | | |
| Static Water Level: | | | | | |
| Flowing (Y/N): | | | | | |
| Flow Rate: | | | | | |
| Clear/Cloudy: | | | | | |
| Data Entry Status: | | | | | |
| Data Src: | | | | | |
| Date Received: | | 5/28/2015 | | | |
| Selected Flag: | | Yes | | | |
| Abandonment Rec: | | | | | |
| Contractor: | | 7241 | | | |
| Form Version: | | 7 | | | |
| Owner: | | | | | |
| Street Name: | | 4 CORDETTA RD | | | |
| County: | | PEEL | | | |
| Municipality: | | BRAMPTON CITY (TORONTO GORE) | | | |
| Site Info: | | | | | |
| Lot: | | | | | |
| Concession: | | | | | |
| Concession Name: | | | | | |
| Easting NAD83: | | | | | |
| Northing NAD83: | | | | | |
| Zone: | | | | | |
| UTM Reliability: | | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--------------------------------------|-------------------|----------------------------|------------------|-------------------------|--------------------------------|
| <u>Bore Hole Information</u> | | | | | |
| Bore Hole ID: | 1005384400 | | | Elevation: | 210.361083 |
| DP2BR: | | | | Elevrc: | |
| Spatial Status: | | | | Zone: | 17 |
| Code OB: | | | | East83: | 606275 |
| Code OB Desc: | | | | North83: | 4852320 |
| Open Hole: | | | | Org CS: | UTM83 |
| Cluster Kind: | | | | UTMRC: | 4 |
| Date Completed: | 5/11/2015 | | | 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: | | | | | |
| <u>Overburden and Bedrock</u> | | | | | |
| <u>Materials Interval</u> | | | | | |
| Formation ID: | 1005608631 | | | | |
| Layer: | 1 | | | | |
| Color: | 6 | | | | |
| General Color: | BROWN | | | | |
| Mat1: | 28 | | | | |
| Most Common Material: | SAND | | | | |
| Mat2: | 11 | | | | |
| Other Materials: | GRAVEL | | | | |
| Mat3: | | | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | 0 | | | | |
| Formation End Depth: | 3 | | | | |
| Formation End Depth UOM: | ft | | | | |
| <u>Overburden and Bedrock</u> | | | | | |
| <u>Materials Interval</u> | | | | | |
| Formation ID: | 1005608632 | | | | |
| Layer: | 2 | | | | |
| Color: | 6 | | | | |
| General Color: | BROWN | | | | |
| Mat1: | 28 | | | | |
| Most Common Material: | SAND | | | | |
| Mat2: | 06 | | | | |
| Other Materials: | SILT | | | | |
| Mat3: | 66 | | | | |
| Other Materials: | DENSE | | | | |
| Formation Top Depth: | 3 | | | | |
| Formation End Depth: | 6 | | | | |
| Formation End Depth UOM: | ft | | | | |
| <u>Overburden and Bedrock</u> | | | | | |
| <u>Materials Interval</u> | | | | | |
| Formation ID: | 1005608633 | | | | |
| Layer: | 3 | | | | |
| Color: | 6 | | | | |
| General Color: | BROWN | | | | |
| Mat1: | 06 | | | | |
| Most Common Material: | SILT | | | | |
| Mat2: | | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--|--------------------------|------------------------------------|--------------------------|-------------|-----------|
| Other Materials: | | | | | |
| Mat3: | | 73 | | | |
| Other Materials: | | HARD | | | |
| Formation Top Depth: | | 6 | | | |
| Formation End Depth: | | 20 | | | |
| Formation End Depth UOM: | | ft | | | |
| <u>Annular Space/Abandonment Sealing Record</u> | | | | | |
| Plug ID: | | 1005608641 | | | |
| Layer: | | 1 | | | |
| Plug From: | | 0 | | | |
| Plug To: | | 9 | | | |
| Plug Depth UOM: | | ft | | | |
| <u>Annular Space/Abandonment Sealing Record</u> | | | | | |
| Plug ID: | | 1005608642 | | | |
| Layer: | | 2 | | | |
| Plug From: | | 9 | | | |
| Plug To: | | 20 | | | |
| Plug Depth UOM: | | ft | | | |
| <u>Method of Construction & Well Use</u> | | | | | |
| Method Construction ID: | | | | | |
| Method Construction Code: | | B | | | |
| Method Construction: | | Other Method | | | |
| Other Method Construction: | | DIRECT PUSH | | | |
| <u>Pipe Information</u> | | | | | |
| Pipe ID: | | 1005608630 | | | |
| Casing No: | | 0 | | | |
| Comment: | | | | | |
| Alt Name: | | | | | |
| <u>Construction Record - Casing</u> | | | | | |
| Casing ID: | | 1005608636 | | | |
| Layer: | | 1 | | | |
| Material: | | 5 | | | |
| Open Hole or Material: | | PLASTIC | | | |
| Depth From: | | 0 | | | |
| Depth To: | | 10 | | | |
| Casing Diameter: | | 2 | | | |
| Casing Diameter UOM: | | inch | | | |
| Casing Depth UOM: | | ft | | | |
| <u>Construction Record - Screen</u> | | | | | |
| Screen ID: | | 1005608637 | | | |
| Layer: | | 1 | | | |
| Slot: | | 10 | | | |
| Screen Top Depth: | | 10 | | | |
| Screen End Depth: | | 20 | | | |
| Screen Material: | | 5 | | | |
| Screen Depth UOM: | | ft | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|-----------------------------|-------------------|----------------------------|------------------|------|----|
| Screen Diameter UOM: | | inch | | | |
| Screen Diameter: | | 2.25 | | | |
| <u>Hole Diameter</u> | | | | | |
| Hole ID: | | 1005608634 | | | |
| Diameter: | | 6 | | | |
| Depth From: | | 0 | | | |
| Depth To: | | 20 | | | |
| Hole Depth UOM: | | ft | | | |
| Hole Diameter UOM: | | inch | | | |

| | | | | | |
|-------------------------------|---------------|-----------------|---------------------|---|-------------|
| 18 | 1 of 1 | NNW/97.7 | 209.0 / 0.09 | lot 12 con 11 ON | WWIS |
| Well ID: | | 4906478 | | Data Entry Status: | |
| Construction Date: | | | | Data Src: 1 | |
| Primary Water Use: | | Commerical | | Date Received: 8/8/1986 | |
| Sec. Water Use: | | | | Selected Flag: Yes | |
| Final Well Status: | | Water Supply | | Abandonment Rec: | |
| Water Type: | | | | Contractor: 4778 | |
| Casing Material: | | | | Form Version: 1 | |
| Audit No: | | NA | | Owner: | |
| Tag: | | | | Street Name: | |
| Construction Method: | | | | County: PEEL | |
| Elevation (m): | | | | Municipality: BRAMPTON CITY (TORONTO GORE) | |
| Elevation Reliability: | | | | Site Info: | |
| Depth to Bedrock: | | | | Lot: 012 | |
| Well Depth: | | | | Concession: 11 | |
| Overburden/Bedrock: | | | | Concession Name: CON | |
| Pump Rate: | | | | Easting NAD83: | |
| Static Water Level: | | | | Northing NAD83: | |
| Flowing (Y/N): | | | | Zone: | |
| Flow Rate: | | | | UTM Reliability: | |
| Clear/Cloudy: | | | | | |

Bore Hole Information

| | | | | | |
|-------------------------------------|--|----------|--|---|--|
| Bore Hole ID: | | 10321043 | | Elevation: 210.348068 | |
| DP2BR: | | 76 | | Elevrc: | |
| Spatial Status: | | | | Zone: 17 | |
| Code OB: | | r | | East83: 606193.6 | |
| Code OB Desc: | | Bedrock | | North83: 4852221 | |
| Open Hole: | | | | Org CS: | |
| Cluster Kind: | | | | UTMRC: 4 | |
| Date Completed: | | 8/2/1985 | | UTMRC Desc: margin of error : 30 m - 100 m | |
| Remarks: | | | | Location Method: topo | |
| Elevrc Desc: | | | | | |
| Location Source Date: | | | | | |
| Improvement Location Source: | | | | | |
| Improvement Location Method: | | | | | |
| Source Revision Comment: | | | | | |
| Supplier Comment: | | | | | |

Overburden and Bedrock

Materials Interval

| | | | |
|-----------------------|--|-----------|--|
| Formation ID: | | 932053847 | |
| Layer: | | 4 | |
| Color: | | 3 | |
| General Color: | | BLUE | |
| Mat1: | | 17 | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|---|--------------------------|------------------------------------|--------------------------|-------------|-----------|
| <hr/> | | | | | |
| Most Common Material: | | SHALE | | | |
| Mat2: | | 73 | | | |
| Other Materials: | | HARD | | | |
| Mat3: | | | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | | 88 | | | |
| Formation End Depth: | | 94 | | | |
| Formation End Depth UOM: | | ft | | | |
| | | | | | |
| <u>Overburden and Bedrock</u> | | | | | |
| <u>Materials Interval</u> | | | | | |
| Formation ID: | | 932053846 | | | |
| Layer: | | 3 | | | |
| Color: | | 3 | | | |
| General Color: | | BLUE | | | |
| Mat1: | | 17 | | | |
| Most Common Material: | | SHALE | | | |
| Mat2: | | 85 | | | |
| Other Materials: | | SOFT | | | |
| Mat3: | | | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | | 76 | | | |
| Formation End Depth: | | 88 | | | |
| Formation End Depth UOM: | | ft | | | |
| | | | | | |
| <u>Overburden and Bedrock</u> | | | | | |
| <u>Materials Interval</u> | | | | | |
| Formation ID: | | 932053845 | | | |
| Layer: | | 2 | | | |
| Color: | | 3 | | | |
| General Color: | | BLUE | | | |
| Mat1: | | 05 | | | |
| Most Common Material: | | CLAY | | | |
| Mat2: | | 12 | | | |
| Other Materials: | | STONES | | | |
| Mat3: | | | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | | 40 | | | |
| Formation End Depth: | | 76 | | | |
| Formation End Depth UOM: | | ft | | | |
| | | | | | |
| <u>Overburden and Bedrock</u> | | | | | |
| <u>Materials Interval</u> | | | | | |
| Formation ID: | | 932053844 | | | |
| Layer: | | 1 | | | |
| Color: | | | | | |
| General Color: | | | | | |
| Mat1: | | 24 | | | |
| Most Common Material: | | PREV. DRILLED | | | |
| Mat2: | | | | | |
| Other Materials: | | | | | |
| Mat3: | | | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | | 0 | | | |
| Formation End Depth: | | 40 | | | |
| Formation End Depth UOM: | | ft | | | |
| | | | | | |
| <u>Method of Construction & Well</u> | | | | | |
| <u>Use</u> | | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|---|--------------------------|------------------------------------|--------------------------|-------------|-----------|
| Method Construction ID: | | | | | |
| Method Construction Code: | 1 | | | | |
| Method Construction: | Cable Tool | | | | |
| Other Method Construction: | | | | | |
| <u>Pipe Information</u> | | | | | |
| Pipe ID: | 10869613 | | | | |
| Casing No: | 1 | | | | |
| Comment: | | | | | |
| Alt Name: | | | | | |
| <u>Construction Record - Casing</u> | | | | | |
| Casing ID: | 930529740 | | | | |
| Layer: | 1 | | | | |
| Material: | 1 | | | | |
| Open Hole or Material: | STEEL | | | | |
| Depth From: | | | | | |
| Depth To: | 88 | | | | |
| Casing Diameter: | 6 | | | | |
| Casing Diameter UOM: | inch | | | | |
| Casing Depth UOM: | ft | | | | |
| <u>Results of Well Yield Testing</u> | | | | | |
| Pump Test ID: | 994906478 | | | | |
| Pump Set At: | | | | | |
| Static Level: | 20 | | | | |
| Final Level After Pumping: | 88 | | | | |
| Recommended Pump Depth: | 85 | | | | |
| Pumping Rate: | 5 | | | | |
| Flowing Rate: | | | | | |
| Recommended Pump Rate: | 5 | | | | |
| Levels UOM: | ft | | | | |
| Rate UOM: | GPM | | | | |
| Water State After Test Code: | | | | | |
| Water State After Test: | | | | | |
| Pumping Test Method: | 2 | | | | |
| Pumping Duration HR: | 4 | | | | |
| Pumping Duration MIN: | 0 | | | | |
| Flowing: | N | | | | |
| <u>Draw Down & Recovery</u> | | | | | |
| Pump Test Detail ID: | 935048414 | | | | |
| Test Type: | | | | | |
| Test Duration: | 60 | | | | |
| Test Level: | 80 | | | | |
| Test Level UOM: | ft | | | | |
| <u>Draw Down & Recovery</u> | | | | | |
| Pump Test Detail ID: | 934528829 | | | | |
| Test Type: | | | | | |
| Test Duration: | 30 | | | | |
| Test Level: | 65 | | | | |
| Test Level UOM: | ft | | | | |
| <u>Draw Down & Recovery</u> | | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|---|-------------------|----------------------------|------------------|---|------|
| Pump Test Detail ID: 934782918 | | | | | |
| Test Type: | | | | | |
| Test Duration: 45 | | | | | |
| Test Level: 79 | | | | | |
| Test Level UOM: ft | | | | | |
| <u>Draw Down & Recovery</u> | | | | | |
| Pump Test Detail ID: 934254235 | | | | | |
| Test Type: | | | | | |
| Test Duration: 15 | | | | | |
| Test Level: 45 | | | | | |
| Test Level UOM: ft | | | | | |
| <u>Water Details</u> | | | | | |
| Water ID: 933794454 | | | | | |
| Layer: 1 | | | | | |
| Kind Code: 1 | | | | | |
| Kind: FRESH | | | | | |
| Water Found Depth: 92 | | | | | |
| Water Found Depth UOM: ft | | | | | |
| 19 | 1 of 1 | ESE/98.0 | 206.1 / -2.73 | THE REGIONAL MUNICIPALITY OF PEEL ON | EASR |
| Approval No: R-009-9110185357 | | | | | |
| Status: REGISTERED | | | | | |
| Date: 2017-07-14 | | | | | |
| Record Type: EASR | | | | | |
| Link Source: MOFA | | | | | |
| Project Type: Water Taking - Construction Dewatering | | | | | |
| Full Address: | | | | | |
| Approval Type: EASR-Water Taking - Construction Dewatering | | | | | |
| Full PDF Link: http://www.accessenvironment.ene.gov.on.ca/AEWeb/ae/ViewDocument.action?documentRefID=2039314 | | | | | |
| 20 | 1 of 6 | NNW/104.4 | 209.9 / 1.00 | WYNDALE PAVING CO. LTD. 24 Cadetta Rd Brampton ON L6P 0X4 | GEN |
| Generator No: ON5265053 | | | | | |
| Status: | | | | | |
| Approval Years: 2016 | | | | | |
| Contam. Facility: No | | | | | |
| MHSW Facility: No | | | | | |
| SIC Code: 811199 | | | | | |
| SIC Description: ALL OTHER AUTOMOTIVE REPAIR AND MAINTENANCE | | | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: 213 | | | | | |
| Waste Class Desc: PETROLEUM DISTILLATES | | | | | |
| Waste Class: 252 | | | | | |
| Waste Class Desc: WASTE OILS & LUBRICANTS | | | | | |
| 20 | 2 of 6 | NNW/104.4 | 209.9 / 1.00 | WYNDALE PAVING CO. LTD. 24 Cadetta Rd | GEN |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|------------------------------|---|----------------------------|---------------------|--|-------------------|
| Brampton ON L6P 0X4 | | | | | |
| Generator No: | ON5265053 | | | PO Box No: | |
| Status: | | | | Country: | Canada |
| Approval Years: | 2015 | | | Choice of Contact: | CO_ADMIN |
| Contam. Facility: | No | | | Co Admin: | Trish O'Hearn |
| MHSW Facility: | No | | | Phone No Admin: | 905-850-3057 Ext. |
| SIC Code: | 811199 | | | | |
| SIC Description: | ALL OTHER AUTOMOTIVE REPAIR AND MAINTENANCE | | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | 252 | | | | |
| Waste Class Desc: | WASTE OILS & LUBRICANTS | | | | |
| 20 | 3 of 6 | NNW/104.4 | 209.9 / 1.00 | WYNDALE PAVING CO. LTD. 24 Cadetta Rd Brampton ON L6P 0X4 | GEN |
| Generator No: | ON5265053 | | | PO Box No: | |
| Status: | Registered | | | Country: | Canada |
| Approval Years: | As of Mar 2019 | | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | | | | | |
| SIC Description: | | | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | 213 T | | | | |
| Waste Class Desc: | Petroleum distillates | | | | |
| Waste Class: | 252 L | | | | |
| Waste Class Desc: | Waste crankcase oils and lubricants | | | | |
| 20 | 4 of 6 | NNW/104.4 | 209.9 / 1.00 | WYNDALE PAVING CO. LTD. 24 Cadetta Rd Brampton ON L6P 0X4 | GEN |
| Generator No: | ON5265053 | | | 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: | | | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | 213 T | | | | |
| Waste Class Desc: | Petroleum distillates | | | | |
| Waste Class: | 252 L | | | | |
| Waste Class Desc: | Waste crankcase oils and lubricants | | | | |
| 20 | 5 of 6 | NNW/104.4 | 209.9 / 1.00 | 24 CADETTA ROAD BRAMPTON ON L6P 0X4 | HINC |
| External File Num: | FS INC 0806-02776 | | | | |
| Fuel Occurrence Type: | Pipeline Strike | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|-------------------------------|-------------------|---|------------------|------|----|
| Date of Occurrence: | | 6/2/2008 | | | |
| Fuel Type Involved: | | Natural Gas | | | |
| Status Desc: | | Completed - Causal Analysis(End) | | | |
| Job Type Desc: | | Incident/Near-Miss Occurrence (FS) | | | |
| Oper. Type Involved: | | Construction Site (pipeline strike) | | | |
| Service Interruptions: | | Yes | | | |
| Property Damage: | | No | | | |
| Fuel Life Cycle Stage: | | Transmission, Distribution and Transportation | | | |
| Root Cause: | | Root Cause: Equipment/Material/Component:No Procedures:Yes Maintenance:No Design:No Training:No Management:Yes Human Factors:Yes | | | |
| Reported Details: | | | | | |
| Fuel Category: | | Gaseous Fuel | | | |
| Occurrence Type: | | Incident | | | |
| Affiliation: | | Industry Stakeholder (Licensee/Registration/Certificate Holder, Facility Owner, etc.) | | | |
| County Name: | | Peel | | | |
| Approx. Quant. Rel: | | | | | |
| Nearby body of water: | | | | | |
| Enter Drainage Syst.: | | | | | |
| Approx. Quant. Unit: | | | | | |
| Environmental Impact: | | | | | |

| | | | | | |
|--------------------------|--------|---|---------------------|--|------------|
| 20 | 6 of 6 | NNW/104.4 | 209.9 / 1.00 | Roma Fence Ltd. 24 Cadetta Rd Brampton ON L6P 0X4 | SCT |
| Established: | | 01-AUG-69 | | | |
| Plant Size (ft²): | | 80000 | | | |
| Employment: | | | | | |
| --Details-- | | | | | |
| Description: | | Cutlery and Hand Tool Manufacturing | | | |
| SIC/NAICS Code: | | 332210 | | | |
| Description: | | All Other Plastic Product Manufacturing | | | |
| SIC/NAICS Code: | | 326198 | | | |
| Description: | | Other Fabricated Wire Product Manufacturing | | | |
| SIC/NAICS Code: | | 332619 | | | |
| Description: | | All Other Miscellaneous Wood Product Manufacturing | | | |
| SIC/NAICS Code: | | 321999 | | | |
| Description: | | Other Ornamental and Architectural Metal Product Manufacturing | | | |
| SIC/NAICS Code: | | 332329 | | | |
| Description: | | Construction, Transportation, Mining, and Forestry Machinery and Equipment Rental and Leasing | | | |
| SIC/NAICS Code: | | 532410 | | | |
| Description: | | All Other Miscellaneous Fabricated Metal Product Manufacturing | | | |
| SIC/NAICS Code: | | 332999 | | | |
| Description: | | Cutlery and Hand Tool Manufacturing | | | |
| SIC/NAICS Code: | | 332210 | | | |

| | | | | | |
|---------------------------|--------|----------------|----------------------|---------------------------------|-------------|
| 21 | 1 of 1 | W/109.3 | 206.9 / -2.00 | ON | WWIS |
| Well ID: | | 7304020 | | Data Entry Status: Yes | |
| Construction Date: | | | | Data Src: | |
| Primary Water Use: | | | | Date Received: 1/24/2018 | |
| Sec. Water Use: | | | | Selected Flag: Yes | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|---|-------------------|-------------------------|---------------|---|-----|
| Final Well Status: Water Type: Casing Material: Audit No: C33620 Tag: A226456 Construction Method: Elevation (m): Elevation Reliability: Depth to Bedrock: Well Depth: Overburden/Bedrock: Pump Rate: Static Water Level: Flowing (Y/N): Flow Rate: Clear/Cloudy: | | | | Abandonment Rec: Contractor: 7383 Form Version: 8 Owner: Street Name: County: PEEL Municipality: BRAMPTON CITY (TORONTO GORE) Site Info: Lot: Concession: Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability: | |
| <u>Bore Hole Information</u> | | | | | |
| Bore Hole ID: 1006975322 DP2BR: Spatial Status: Code OB: Code OB Desc: Open Hole: Cluster Kind: Date Completed: 7/17/2017 Remarks: Elevrc Desc: Location Source Date: Improvement Location Source: Improvement Location Method: Source Revision Comment: Supplier Comment: | | | | Elevation: Elevrc: Zone: 17 East83: 606004 North83: 4852000 Org CS: UTM83 UTMRC: 4 UTMRC Desc: margin of error : 30 m - 100 m Location Method: wwr | |
| 22 | 1 of 1 | NNW/111.5 | 209.9 / 1.00 | 24 Cadetta Rd Brampton ON L6P0X4 | EHS |
| Order No: 20141203073 Status: C Report Type: Standard Report Report Date: 10-DEC-14 Date Received: 03-DEC-14 Previous Site Name: Lot/Building Size: Additional Info Ordered: Aerial Photos | | | | Nearest Intersection: Municipality: Client Prov/State: ON Search Radius (km): .25 X: -79.679288 Y: 43.815865 | |
| 23 | 1 of 1 | N/123.7 | 209.9 / 1.00 | O@B Corporation Inc. 4 Cadetta Rd Brampton ON L6A 4C1 | ECA |
| Approval No: 6568-9E3SKD Approval Date: 2013-12-18 Status: Approved Record Type: ECA Link Source: IDS SWP Area Name: Approval Type: ECA-WASTE MANAGEMENT SYSTEMS Project Type: WASTE MANAGEMENT SYSTEMS Address: 4 Cadetta Rd Full Address: Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/5607-9C3R3S-14.pdf | | | | MOE District: City: Longitude: Latitude: Geometry X: Geometry Y: | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|---------|-------------------|----------------------------|------------------|------|----|
|---------|-------------------|----------------------------|------------------|------|----|

| | | | | | |
|--------------------|--------|----------|---------------|---------------------|------|
| 24 | 1 of 1 | NW/127.9 | 206.9 / -2.00 | lot 12 con 11 ON | WWIS |
|--------------------|--------|----------|---------------|---------------------|------|

| | | | |
|-------------------------------|--------------|---------------------------|------------------------------|
| Well ID: | 4905812 | Data Entry Status: | |
| Construction Date: | | Data Src: | 1 |
| Primary Water Use: | Domestic | Date Received: | 11/3/1981 |
| Sec. Water Use: | | Selected Flag: | Yes |
| Final Well Status: | Water Supply | Abandonment Rec: | |
| Water Type: | | Contractor: | 3746 |
| Casing Material: | | Form Version: | 1 |
| Audit No: | | Owner: | |
| Tag: | | Street Name: | |
| Construction Method: | | County: | PEEL |
| Elevation (m): | | Municipality: | BRAMPTON CITY (TORONTO GORE) |
| Elevation Reliability: | | Site Info: | |
| Depth to Bedrock: | | Lot: | 012 |
| Well Depth: | | Concession: | 11 |
| Overburden/Bedrock: | | Concession Name: | CON |
| Pump Rate: | | Easting NAD83: | |
| Static Water Level: | | Northing NAD83: | |
| Flowing (Y/N): | | Zone: | |
| Flow Rate: | | UTM Reliability: | |
| Clear/Cloudy: | | | |

Bore Hole Information

| | | | |
|-------------------------------------|------------|-------------------------|--------------------------------|
| Bore Hole ID: | 10320497 | Elevation: | 208.051589 |
| DP2BR: | | Elevrc: | |
| Spatial Status: | | Zone: | 17 |
| Code OB: | o | East83: | 606077.6 |
| Code OB Desc: | Overburden | North83: | 4852123 |
| Open Hole: | | Org CS: | |
| Cluster Kind: | | UTMRC: | 4 |
| Date Completed: | 10/5/1981 | UTMRC Desc: | margin of error : 30 m - 100 m |
| Remarks: | | Location Method: | topo |
| Elevrc Desc: | | | |
| Location Source Date: | | | |
| Improvement Location Source: | | | |
| Improvement Location Method: | | | |
| Source Revision Comment: | | | |
| Supplier Comment: | | | |

**Overburden and Bedrock
Materials Interval**

| | |
|---------------------------------|-----------|
| Formation ID: | 932051414 |
| Layer: | 1 |
| Color: | |
| General Color: | |
| Mat1: | 02 |
| Most Common Material: | TOPSOIL |
| Mat2: | |
| Other Materials: | |
| Mat3: | |
| Other Materials: | |
| Formation Top Depth: | 0 |
| Formation End Depth: | 1 |
| Formation End Depth UOM: | ft |

Overburden and Bedrock

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--------------------------------------|--------------------------|------------------------------------|--------------------------|-------------|-----------|
| <u>Materials Interval</u> | | | | | |
| Formation ID: | | | 932051417 | | |
| Layer: | | | 4 | | |
| Color: | | | | | |
| General Color: | | | | | |
| Mat1: | | | 10 | | |
| Most Common Material: | | | COARSE SAND | | |
| Mat2: | | | | | |
| Other Materials: | | | | | |
| Mat3: | | | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | | | 32 | | |
| Formation End Depth: | | | 35 | | |
| Formation End Depth UOM: | | | ft | | |
| <u>Overburden and Bedrock</u> | | | | | |
| <u>Materials Interval</u> | | | | | |
| Formation ID: | | | 932051415 | | |
| Layer: | | | 2 | | |
| Color: | | | 6 | | |
| General Color: | | | BROWN | | |
| Mat1: | | | 05 | | |
| Most Common Material: | | | CLAY | | |
| Mat2: | | | | | |
| Other Materials: | | | | | |
| Mat3: | | | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | | | 1 | | |
| Formation End Depth: | | | 20 | | |
| Formation End Depth UOM: | | | ft | | |
| <u>Overburden and Bedrock</u> | | | | | |
| <u>Materials Interval</u> | | | | | |
| Formation ID: | | | 932051416 | | |
| Layer: | | | 3 | | |
| Color: | | | 3 | | |
| General Color: | | | BLUE | | |
| Mat1: | | | 05 | | |
| Most Common Material: | | | CLAY | | |
| Mat2: | | | | | |
| Other Materials: | | | | | |
| Mat3: | | | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | | | 20 | | |
| Formation End Depth: | | | 32 | | |
| Formation End Depth UOM: | | | ft | | |
| <u>Overburden and Bedrock</u> | | | | | |
| <u>Materials Interval</u> | | | | | |
| Formation ID: | | | 932051418 | | |
| Layer: | | | 5 | | |
| Color: | | | 3 | | |
| General Color: | | | BLUE | | |
| Mat1: | | | 05 | | |
| Most Common Material: | | | CLAY | | |
| Mat2: | | | | | |
| Other Materials: | | | | | |
| Mat3: | | | | | |
| Other Materials: | | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|---|--------------------------|------------------------------------|--------------------------|-------------|-----------|
| Formation Top Depth: | | 35 | | | |
| Formation End Depth: | | 40 | | | |
| Formation End Depth UOM: | | ft | | | |
| <u>Method of Construction & Well Use</u> | | | | | |
| Method Construction ID: | | | | | |
| Method Construction Code: | | 6 | | | |
| Method Construction: | | Boring | | | |
| Other Method Construction: | | | | | |
| <u>Pipe Information</u> | | | | | |
| Pipe ID: | | 10869067 | | | |
| Casing No: | | 1 | | | |
| Comment: | | | | | |
| Alt Name: | | | | | |
| <u>Construction Record - Casing</u> | | | | | |
| Casing ID: | | 930528816 | | | |
| Layer: | | 1 | | | |
| Material: | | 3 | | | |
| Open Hole or Material: | | CONCRETE | | | |
| Depth From: | | | | | |
| Depth To: | | 40 | | | |
| Casing Diameter: | | 30 | | | |
| Casing Diameter UOM: | | inch | | | |
| Casing Depth UOM: | | ft | | | |
| <u>Results of Well Yield Testing</u> | | | | | |
| Pump Test ID: | | 994905812 | | | |
| Pump Set At: | | | | | |
| Static Level: | | 12 | | | |
| Final Level After Pumping: | | 35 | | | |
| Recommended Pump Depth: | | 36 | | | |
| Pumping Rate: | | 3 | | | |
| Flowing Rate: | | | | | |
| Recommended Pump Rate: | | 3 | | | |
| Levels UOM: | | ft | | | |
| Rate UOM: | | GPM | | | |
| Water State After Test Code: | | 1 | | | |
| Water State After Test: | | CLEAR | | | |
| Pumping Test Method: | | 2 | | | |
| Pumping Duration HR: | | 4 | | | |
| Pumping Duration MIN: | | 0 | | | |
| Flowing: | | N | | | |
| <u>Draw Down & Recovery</u> | | | | | |
| Pump Test Detail ID: | | 934261937 | | | |
| Test Type: | | | | | |
| Test Duration: | | 15 | | | |
| Test Level: | | 35 | | | |
| Test Level UOM: | | ft | | | |
| <u>Draw Down & Recovery</u> | | | | | |
| Pump Test Detail ID: | | 934527675 | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--|-------------------|----------------------------|------------------|------|----|
| Test Type: | | | | | |
| Test Duration: | | 30 | | | |
| Test Level: | | 35 | | | |
| Test Level UOM: | | ft | | | |
| <u>Draw Down & Recovery</u> | | | | | |
| Pump Test Detail ID: | | 934781776 | | | |
| Test Type: | | | | | |
| Test Duration: | | 45 | | | |
| Test Level: | | 35 | | | |
| Test Level UOM: | | ft | | | |
| <u>Draw Down & Recovery</u> | | | | | |
| Pump Test Detail ID: | | 935046790 | | | |
| Test Type: | | | | | |
| Test Duration: | | 60 | | | |
| Test Level: | | 35 | | | |
| Test Level UOM: | | ft | | | |
| <u>Water Details</u> | | | | | |
| Water ID: | | 933793819 | | | |
| Layer: | | 1 | | | |
| Kind Code: | | 1 | | | |
| Kind: | | FRESH | | | |
| Water Found Depth: | | 32 | | | |
| Water Found Depth UOM: | | ft | | | |

[25](#) 1 of 1 **ESE/129.0** **206.1 / -2.79** **Brampton ON** **WWIS**

| | | | |
|-------------------------------|-----------------|---------------------------|-------------------------------------|
| Well ID: | 7249972 | Data Entry Status: | |
| Construction Date: | | Data Src: | |
| Primary Water Use: | | Date Received: | 10/14/2015 |
| Sec. Water Use: | | Selected Flag: | Yes |
| Final Well Status: | Abandoned-Other | Abandonment Rec: | Yes |
| Water Type: | | Contractor: | 7472 |
| Casing Material: | | Form Version: | 7 |
| Audit No: | Z219826 | Owner: | |
| Tag: | | Street Name: | HWY 50 ASTLEMORE ROAD-COLERAINE DR. |
| Construction Method: | | County: | YORK |
| Elevation (m): | | Municipality: | VAUGHAN TOWN (VAUGHAN TWP) |
| 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: | | | |

Bore Hole Information

| | | | |
|------------------------|------------|-------------------|------------|
| Bore Hole ID: | 1005739554 | Elevation: | 207.995269 |
| DP2BR: | | Elevrc: | |
| Spatial Status: | | Zone: | 17 |
| Code OB: | | East83: | 606644 |
| Code OB Desc: | | North83: | 4851825 |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--|--------------------------|------------------------------------|--------------------------|-------------------------|--------------------------------|
| Open Hole: | | | | Org CS: | UTM83 |
| Cluster Kind: | | | | UTMRC: | 4 |
| Date Completed: | 9/10/2015 | | | 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: | | | | | |
| | | | | | |
| <u>Annular Space/Abandonment Sealing Record</u> | | | | | |
| Plug ID: | | 1005770400 | | | |
| Layer: | | 1 | | | |
| Plug From: | | 0 | | | |
| Plug To: | | 12 | | | |
| Plug Depth UOM: | | m | | | |
| | | | | | |
| <u>Pipe Information</u> | | | | | |
| Pipe ID: | | 1005770392 | | | |
| Casing No: | | 0 | | | |
| Comment: | | | | | |
| Alt Name: | | | | | |
| | | | | | |
| <u>Construction Record - Casing</u> | | | | | |
| Casing ID: | | 1005770397 | | | |
| Layer: | | | | | |
| Material: | | | | | |
| Open Hole or Material: | | | | | |
| Depth From: | | | | | |
| Depth To: | | | | | |
| Casing Diameter: | | | | | |
| Casing Diameter UOM: | | cm | | | |
| Casing Depth UOM: | | m | | | |
| | | | | | |
| <u>Construction Record - Screen</u> | | | | | |
| Screen ID: | | 1005770398 | | | |
| Layer: | | | | | |
| Slot: | | | | | |
| Screen Top Depth: | | | | | |
| Screen End Depth: | | | | | |
| Screen Material: | | | | | |
| Screen Depth UOM: | | m | | | |
| Screen Diameter UOM: | | cm | | | |
| Screen Diameter: | | | | | |
| | | | | | |
| <u>Hole Diameter</u> | | | | | |
| Hole ID: | | 1005770395 | | | |
| Diameter: | | 5.2 | | | |
| Depth From: | | 6.1 | | | |
| Depth To: | | 12 | | | |
| Hole Depth UOM: | | m | | | |
| Hole Diameter UOM: | | cm | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--------------------|-------------------|----------------------------|------------------|------|----|
| Hole ID: | | 1005770394 | | | |
| Diameter: | | 21 | | | |
| Depth From: | | 0 | | | |
| Depth To: | | 6.1 | | | |
| Hole Depth UOM: | | m | | | |
| Hole Diameter UOM: | | cm | | | |

| 26 | 1 of 1 | N/131.1 | 209.9 / 1.00 | BRAMPTON ON | WWIS |
|-------------------------------|--------------------------|---------|--------------|---------------------------|------------------------------|
| Well ID: | 7241946 | | | Data Entry Status: | |
| Construction Date: | | | | Data Src: | |
| Primary Water Use: | Monitoring and Test Hole | | | Date Received: | 5/28/2015 |
| Sec. Water Use: | 0 | | | Selected Flag: | Yes |
| Final Well Status: | Observation Wells | | | Abandonment Rec: | |
| Water Type: | | | | Contractor: | 7241 |
| Casing Material: | | | | Form Version: | 7 |
| Audit No: | Z208700 | | | Owner: | |
| Tag: | A181319 | | | Street Name: | 4 CORDETTA RD |
| Construction Method: | | | | County: | PEEL |
| Elevation (m): | | | | Municipality: | BRAMPTON CITY (TORONTO GORE) |
| 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: | | | | | |

Bore Hole Information

| | | | |
|-------------------------------------|------------|-------------------------|--------------------------------|
| Bore Hole ID: | 1005384403 | Elevation: | 210.352798 |
| DP2BR: | | Elevrc: | |
| Spatial Status: | | Zone: | 17 |
| Code OB: | | East83: | 606298 |
| Code OB Desc: | | North83: | 4852406 |
| Open Hole: | | Org CS: | UTM83 |
| Cluster Kind: | | UTMRC: | 4 |
| Date Completed: | 5/11/2015 | 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: | 1005608655 |
| Layer: | 3 |
| Color: | 2 |
| General Color: | GREY |
| Mat1: | 06 |
| Most Common Material: | SILT |
| Mat2: | |
| Other Materials: | |
| Mat3: | 73 |
| Other Materials: | HARD |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|---|--------------------------|------------------------------------|--------------------------|-------------|-----------|
| Formation Top Depth: | | 12 | | | |
| Formation End Depth: | | 27 | | | |
| Formation End Depth UOM: | | ft | | | |
| <u>Overburden and Bedrock Materials Interval</u> | | | | | |
| Formation ID: | | 1005608654 | | | |
| Layer: | | 2 | | | |
| Color: | | 6 | | | |
| General Color: | | BROWN | | | |
| Mat1: | | 28 | | | |
| Most Common Material: | | SAND | | | |
| Mat2: | | 06 | | | |
| Other Materials: | | SILT | | | |
| Mat3: | | 66 | | | |
| Other Materials: | | DENSE | | | |
| Formation Top Depth: | | 7 | | | |
| Formation End Depth: | | 12 | | | |
| Formation End Depth UOM: | | ft | | | |
| <u>Overburden and Bedrock Materials Interval</u> | | | | | |
| Formation ID: | | 1005608653 | | | |
| Layer: | | 1 | | | |
| Color: | | 6 | | | |
| General Color: | | BROWN | | | |
| Mat1: | | 28 | | | |
| Most Common Material: | | SAND | | | |
| Mat2: | | 11 | | | |
| Other Materials: | | GRAVEL | | | |
| Mat3: | | 77 | | | |
| Other Materials: | | LOOSE | | | |
| Formation Top Depth: | | 0 | | | |
| Formation End Depth: | | 7 | | | |
| Formation End Depth UOM: | | ft | | | |
| <u>Annular Space/Abandonment Sealing Record</u> | | | | | |
| Plug ID: | | 1005608663 | | | |
| Layer: | | 1 | | | |
| Plug From: | | 0 | | | |
| Plug To: | | 16 | | | |
| Plug Depth UOM: | | ft | | | |
| <u>Annular Space/Abandonment Sealing Record</u> | | | | | |
| Plug ID: | | 1005608664 | | | |
| Layer: | | 2 | | | |
| Plug From: | | 16 | | | |
| Plug To: | | 27 | | | |
| Plug Depth UOM: | | ft | | | |
| <u>Method of Construction & Well Use</u> | | | | | |
| Method Construction ID: | | | | | |
| Method Construction Code: | | B | | | |
| Method Construction: | | Other Method | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--|-------------------|----------------------------|------------------|------|----|
| Other Method Construction: | | DIRECT PUSH | | | |
| <u>Pipe Information</u> | | | | | |
| Pipe ID: | | 1005608652 | | | |
| Casing No: | | 0 | | | |
| Comment: | | | | | |
| Alt Name: | | | | | |
| <u>Construction Record - Casing</u> | | | | | |
| Casing ID: | | 1005608658 | | | |
| Layer: | | 1 | | | |
| Material: | | 5 | | | |
| Open Hole or Material: | | PLASTIC | | | |
| Depth From: | | 0 | | | |
| Depth To: | | 17 | | | |
| Casing Diameter: | | 2 | | | |
| Casing Diameter UOM: | | inch | | | |
| Casing Depth UOM: | | ft | | | |
| <u>Construction Record - Screen</u> | | | | | |
| Screen ID: | | 1005608659 | | | |
| Layer: | | 1 | | | |
| Slot: | | 10 | | | |
| Screen Top Depth: | | 17 | | | |
| Screen End Depth: | | 27 | | | |
| Screen Material: | | 5 | | | |
| Screen Depth UOM: | | ft | | | |
| Screen Diameter UOM: | | inch | | | |
| Screen Diameter: | | 2.25 | | | |
| <u>Hole Diameter</u> | | | | | |
| Hole ID: | | 1005608656 | | | |
| Diameter: | | 6 | | | |
| Depth From: | | 0 | | | |
| Depth To: | | 27 | | | |
| Hole Depth UOM: | | ft | | | |
| Hole Diameter UOM: | | inch | | | |

[27](#) 1 of 1 **E/144.7** **206.3 / -2.52** **KLEINBURG ON** **WWIS**

| | | | |
|-------------------------------|-------------------|---------------------------|----------------------------|
| Well ID: | 7302203 | Data Entry Status: | |
| Construction Date: | | Data Src: | |
| Primary Water Use: | Test Hole | Date Received: | 12/22/2017 |
| Sec. Water Use: | Monitoring | Selected Flag: | Yes |
| Final Well Status: | Observation Wells | Abandonment Rec: | |
| Water Type: | | Contractor: | 7241 |
| Casing Material: | | Form Version: | 7 |
| Audit No: | Z274189 | Owner: | |
| Tag: | A167821 | Street Name: | 9501 HWY 50 |
| Construction Method: | | County: | YORK |
| Elevation (m): | | Municipality: | VAUGHAN TOWN (VAUGHAN TWP) |
| Elevation Reliability: | | Site Info: | |
| Depth to Bedrock: | | Lot: | |
| Well Depth: | | Concession: | |
| Overburden/Bedrock: | | Concession Name: | |
| Pump Rate: | | Easting NAD83: | |
| Static Water Level: | | Northing NAD83: | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--------------------------------------|--------------------------|------------------------------------|--------------------------|-------------------------|--------------------------------|
| Flowing (Y/N): | | | | Zone: | |
| Flow Rate: | | | | UTM Reliability: | |
| Clear/Cloudy: | | | | | |
| <u>Bore Hole Information</u> | | | | | |
| Bore Hole ID: | 1006924743 | | | Elevation: | 208.187667 |
| DP2BR: | | | | Elevrc: | |
| Spatial Status: | | | | Zone: | 17 |
| Code OB: | | | | East83: | 606712 |
| Code OB Desc: | | | | North83: | 4851930 |
| Open Hole: | | | | Org CS: | UTM83 |
| Cluster Kind: | | | | UTMRC: | 4 |
| Date Completed: | 11/23/2017 | | | 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: | | | | | |
| <u>Overburden and Bedrock</u> | | | | | |
| <u>Materials Interval</u> | | | | | |
| Formation ID: | 1007100398 | | | | |
| Layer: | 2 | | | | |
| Color: | 6 | | | | |
| General Color: | BROWN | | | | |
| Mat1: | 06 | | | | |
| Most Common Material: | SILT | | | | |
| Mat2: | 34 | | | | |
| Other Materials: | TILL | | | | |
| Mat3: | | | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | 73 | | | | |
| Formation End Depth: | 15 | | | | |
| Formation End Depth UOM: | ft | | | | |
| <u>Overburden and Bedrock</u> | | | | | |
| <u>Materials Interval</u> | | | | | |
| Formation ID: | 1007100399 | | | | |
| Layer: | 3 | | | | |
| Color: | 2 | | | | |
| General Color: | GREY | | | | |
| Mat1: | 05 | | | | |
| Most Common Material: | CLAY | | | | |
| Mat2: | 34 | | | | |
| Other Materials: | TILL | | | | |
| Mat3: | | | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | 15 | | | | |
| Formation End Depth: | 23 | | | | |
| Formation End Depth UOM: | ft | | | | |
| <u>Overburden and Bedrock</u> | | | | | |
| <u>Materials Interval</u> | | | | | |
| Formation ID: | 1007100397 | | | | |
| Layer: | 1 | | | | |
| Color: | 6 | | | | |

| <i>Map Key</i> | <i>Number of Records</i> | <i>Direction/ Distance (m)</i> | <i>Elev/Diff (m)</i> | <i>Site</i> | <i>DB</i> |
|--|--------------------------|--------------------------------|----------------------|-------------|-----------|
| <i>General Color:</i> | | BROWN | | | |
| <i>Mat1:</i> | | 11 | | | |
| <i>Most Common Material:</i> | | GRAVEL | | | |
| <i>Mat2:</i> | | | | | |
| <i>Other Materials:</i> | | | | | |
| <i>Mat3:</i> | | | | | |
| <i>Other Materials:</i> | | | | | |
| <i>Formation Top Depth:</i> | | 0 | | | |
| <i>Formation End Depth:</i> | | 73 | | | |
| <i>Formation End Depth UOM:</i> | | ft | | | |
| | | | | | |
| <u><i>Annular Space/Abandonment Sealing Record</i></u> | | | | | |
| <i>Plug ID:</i> | | 1007100407 | | | |
| <i>Layer:</i> | | 1 | | | |
| <i>Plug From:</i> | | 0 | | | |
| <i>Plug To:</i> | | 1 | | | |
| <i>Plug Depth UOM:</i> | | ft | | | |
| | | | | | |
| <u><i>Annular Space/Abandonment Sealing Record</i></u> | | | | | |
| <i>Plug ID:</i> | | 1007100409 | | | |
| <i>Layer:</i> | | 3 | | | |
| <i>Plug From:</i> | | 12 | | | |
| <i>Plug To:</i> | | 23 | | | |
| <i>Plug Depth UOM:</i> | | ft | | | |
| | | | | | |
| <u><i>Annular Space/Abandonment Sealing Record</i></u> | | | | | |
| <i>Plug ID:</i> | | 1007100408 | | | |
| <i>Layer:</i> | | 2 | | | |
| <i>Plug From:</i> | | 1 | | | |
| <i>Plug To:</i> | | 12 | | | |
| <i>Plug Depth UOM:</i> | | ft | | | |
| | | | | | |
| <u><i>Method of Construction & Well Use</i></u> | | | | | |
| <i>Method Construction ID:</i> | | | | | |
| <i>Method Construction Code:</i> | | D | | | |
| <i>Method Construction:</i> | | Direct Push | | | |
| <i>Other Method Construction:</i> | | | | | |
| | | | | | |
| <u><i>Pipe Information</i></u> | | | | | |
| <i>Pipe ID:</i> | | 1007100396 | | | |
| <i>Casing No:</i> | | 0 | | | |
| <i>Comment:</i> | | | | | |
| <i>Alt Name:</i> | | | | | |
| | | | | | |
| <u><i>Construction Record - Casing</i></u> | | | | | |
| <i>Casing ID:</i> | | 1007100402 | | | |
| <i>Layer:</i> | | 1 | | | |
| <i>Material:</i> | | 5 | | | |
| <i>Open Hole or Material:</i> | | PLASTIC | | | |
| <i>Depth From:</i> | | 0 | | | |
| <i>Depth To:</i> | | 13 | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--|-------------------|--------------------------------|------------------|---|------------|
| Casing Diameter: | | 2 | | | |
| Casing Diameter UOM: | | inch | | | |
| Casing Depth UOM: | | ft | | | |
| <u>Construction Record - Screen</u> | | | | | |
| Screen ID: | | 1007100403 | | | |
| Layer: | | 1 | | | |
| Slot: | | 10 | | | |
| Screen Top Depth: | | 13 | | | |
| Screen End Depth: | | 23 | | | |
| Screen Material: | | 5 | | | |
| Screen Depth UOM: | | ft | | | |
| Screen Diameter UOM: | | inch | | | |
| Screen Diameter: | | 2.25 | | | |
| <u>Hole Diameter</u> | | | | | |
| Hole ID: | | 1007100400 | | | |
| Diameter: | | 6 | | | |
| Depth From: | | 0 | | | |
| Depth To: | | 23 | | | |
| Hole Depth UOM: | | ft | | | |
| Hole Diameter UOM: | | inch | | | |
| 28 | 1 of 18 | WNW/148.4 | 206.9 / -2.00 | 16 Cadetta Rd Brampton ON L6P 0X4 | EHS |
| Order No: | | 20070705003 | | Nearest Intersection: | |
| Status: | | C | | Municipality: | |
| Report Type: | | CAN - Complete Report | | Client Prov/State: | |
| Report Date: | | 7/13/2007 | | Search Radius (km): | 0.25 |
| Date Received: | | 7/5/2007 | | X: | -79.681053 |
| Previous Site Name: | | | | Y: | 43.814909 |
| Lot/Building Size: | | | | | |
| Additional Info Ordered: | | | | | |
| 28 | 2 of 18 | WNW/148.4 | 206.9 / -2.00 | 1389147 ONTARIO INC 16 CADETTA ROAD BRAMPTON ON L6P 0X4 | GEN |
| Generator No: | | ON2949179 | | PO Box No: | |
| Status: | | | | Country: | |
| Approval Years: | | 2010 | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | | 484110 | | | |
| SIC Description: | | General Freight Trucking Local | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | | 252 | | | |
| Waste Class Desc: | | WASTE OILS & LUBRICANTS | | | |
| 28 | 3 of 18 | WNW/148.4 | 206.9 / -2.00 | 1389147 ONTARIO INC 16 CADETTA ROAD BRAMPTON ON L6P 0X4 | GEN |
| Generator No: | | ON2949179 | | PO Box No: | |
| Status: | | | | Country: | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|---|---|----------------------------|------------------|---|-----|
| Approval Years: Contam. Facility: MHSW Facility: SIC Code: SIC Description: | 2012 484110 | | | Choice of Contact: Co Admin: Phone No Admin: General Freight Trucking Local | |
| Detail(s) | | | | | |
| Waste Class: Waste Class Desc: | 252 WASTE OILS & LUBRICANTS | | | | |
| 28 | 4 of 18 | WNW/148.4 | 206.9 / -2.00 | 1389147 ONTARIO INC 16 CADETTA ROAD BRAMPTON ON L6P 0X4 | GEN |
| Generator No: Status: Approval Years: Contam. Facility: MHSW Facility: SIC Code: SIC Description: | ON2949179 2011 484110 | | | PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin: General Freight Trucking Local | |
| Detail(s) | | | | | |
| Waste Class: Waste Class Desc: | 252 WASTE OILS & LUBRICANTS | | | | |
| 28 | 5 of 18 | WNW/148.4 | 206.9 / -2.00 | 1389147 ONTARIO INC 16 CADETTA ROAD BRAMPTON ON | GEN |
| Generator No: Status: Approval Years: Contam. Facility: MHSW Facility: SIC Code: SIC Description: | ON2949179 2013 484110 | | | PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin: GENERAL FREIGHT TRUCKING, LOCAL | |
| Detail(s) | | | | | |
| Waste Class: Waste Class Desc: | 252 WASTE OILS & LUBRICANTS | | | | |
| 28 | 6 of 18 | WNW/148.4 | 206.9 / -2.00 | AVENUE STRUCTURES CORPORATION 16 CADETTA ROAD BRAMPTON ON L6T 3Z8 | GEN |
| Generator No: Status: Approval Years: Contam. Facility: MHSW Facility: SIC Code: SIC Description: | ON0706400 86,87,88,89,90 0007 | | | PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin: LETTER ACKNOWLEDG. | |
| Detail(s) | | | | | |
| Waste Class: | 213 | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--------------------------|--------------------------------|----------------------------|------------------|---|-----|
| Waste Class Desc: | | PETROLEUM DISTILLATES | | | |
| 28 | 7 of 18 | WNW/148.4 | 206.9 / -2.00 | 1389147 ONTARIO INC 16 CADETTA ROAD BRAMPTON ON L6P 0X4 | GEN |
| Generator No: | ON2949179 | | | PO Box No: | |
| Status: | | | | Country: | |
| Approval Years: | 2009 | | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | 484110 | | | | |
| SIC Description: | General Freight Trucking Local | | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | 252 | | | | |
| Waste Class Desc: | WASTE OILS & LUBRICANTS | | | | |
| 28 | 8 of 18 | WNW/148.4 | 206.9 / -2.00 | AVENUE STRUC(OUT OF BUSINESS) 16 CADETTA ROAD BRAMPTON ON L6T 3Z8 | GEN |
| Generator No: | ON0706400 | | | PO Box No: | |
| Status: | | | | Country: | |
| Approval Years: | 99,00 | | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | 4222 | | | | |
| SIC Description: | FORM WORK | | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | 213 | | | | |
| Waste Class Desc: | PETROLEUM DISTILLATES | | | | |
| 28 | 9 of 18 | WNW/148.4 | 206.9 / -2.00 | Avenue Building Corporation 16 CADETTA ROAD BRAMPTON ON L6T 3Z8 | GEN |
| Generator No: | ON2540900 | | | PO Box No: | |
| Status: | | | | Country: | |
| Approval Years: | 04,05,06 | | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | | | | | |
| SIC Description: | | | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | 252 | | | | |
| Waste Class Desc: | WASTE OILS & LUBRICANTS | | | | |
| Waste Class: | 145 | | | | |
| Waste Class Desc: | PAINT/PIGMENT/COATING RESIDUES | | | | |
| Waste Class: | 253 | | | | |
| Waste Class Desc: | EMULSIFIED OILS | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--------------------------|--------------------------------|----------------------------|------------------|--|-----|
| 28 | 10 of 18 | WNW/148.4 | 206.9 / -2.00 | CANFORM STRUCTURES LIMITED 16 CADETTA ROAD BRAMPTON ON L6T 3Z8 | GEN |
| Generator No: | ON2540900 | | | PO Box No: | |
| Status: | | | | Country: | |
| Approval Years: | 99,00,01,02,03 | | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | 4022 | | | | |
| SIC Description: | COMMERCIAL BUILDING | | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | 252 | | | | |
| Waste Class Desc: | WASTE OILS & LUBRICANTS | | | | |
| 28 | 11 of 18 | WNW/148.4 | 206.9 / -2.00 | AVENUE STRUCTURES CORPORATION 03-217 16 CADETTA ROAD BRAMPTON ON L6T 3Z8 | GEN |
| Generator No: | ON0706400 | | | PO Box No: | |
| Status: | | | | Country: | |
| Approval Years: | 94,95,96 | | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | 4222 | | | | |
| SIC Description: | FORM WORK | | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | 213 | | | | |
| Waste Class Desc: | PETROLEUM DISTILLATES | | | | |
| 28 | 12 of 18 | WNW/148.4 | 206.9 / -2.00 | 1389147 ONTARIO INC 16 CADETTA ROAD BRAMPTON ON L6P 0X4 | GEN |
| Generator No: | ON2949179 | | | PO Box No: | |
| Status: | | | | Country: | |
| Approval Years: | 07,08 | | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | 484110 | | | | |
| SIC Description: | General Freight Trucking Local | | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | 252 | | | | |
| Waste Class Desc: | WASTE OILS & LUBRICANTS | | | | |
| 28 | 13 of 18 | WNW/148.4 | 206.9 / -2.00 | AVENUE STRUCTURES CORPORATION 16 CADETTA ROAD BRAMPTON ON L6T 3Z8 | GEN |
| Generator No: | ON0706400 | | | PO Box No: | |
| Status: | | | | Country: | |
| Approval Years: | 92,93,97,98 | | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | 4222 | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--------------------------|-------------------|---|------------------|--|-----|
| SIC Description: | | FORM WORK | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | | 213 | | | |
| Waste Class Desc: | | PETROLEUM DISTILLATES | | | |
| 28 | 14 of 18 | WNW/148.4 | 206.9 / -2.00 | 1389147 ONTARIO INC 16 CADETTA ROAD BRAMPTON ON L6P0X4 | GEN |
| Generator No: | ON2949179 | PO Box No: | | | |
| Status: | | Country: | | Canada | |
| Approval Years: | 2016 | Choice of Contact: | | CO_ADMIN | |
| Contam. Facility: | No | Co Admin: | | FALGUNI SONI | |
| MHSW Facility: | No | Phone No Admin: | | 905-612-9046 Ext.226 | |
| SIC Code: | 484110 | SIC Description: GENERAL FREIGHT TRUCKING, LOCAL | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | | 252 | | | |
| Waste Class Desc: | | WASTE OILS & LUBRICANTS | | | |
| 28 | 15 of 18 | WNW/148.4 | 206.9 / -2.00 | 1389147 ONTARIO INC 16 CADETTA ROAD BRAMPTON ON L6P0X4 | GEN |
| Generator No: | ON2949179 | PO Box No: | | | |
| Status: | | Country: | | Canada | |
| Approval Years: | 2015 | Choice of Contact: | | CO_ADMIN | |
| Contam. Facility: | No | Co Admin: | | FALGUNI SONI | |
| MHSW Facility: | No | Phone No Admin: | | 905-612-9046 Ext.226 | |
| SIC Code: | 484110 | SIC Description: GENERAL FREIGHT TRUCKING, LOCAL | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | | 252 | | | |
| Waste Class Desc: | | WASTE OILS & LUBRICANTS | | | |
| 28 | 16 of 18 | WNW/148.4 | 206.9 / -2.00 | 1389147 ONTARIO INC 16 CADETTA ROAD BRAMPTON ON L6P0X4 | GEN |
| Generator No: | ON2949179 | PO Box No: | | | |
| Status: | | Country: | | Canada | |
| Approval Years: | 2014 | Choice of Contact: | | CO_ADMIN | |
| Contam. Facility: | No | Co Admin: | | FALGUNI SONI | |
| MHSW Facility: | No | Phone No Admin: | | 905-612-9046 Ext.226 | |
| SIC Code: | 484110 | SIC Description: GENERAL FREIGHT TRUCKING, LOCAL | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | | 252 | | | |
| Waste Class Desc: | | WASTE OILS & LUBRICANTS | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|-------------------------------------|-------------------------------------|----------------------------|------------------|--|------------------------------|
| 28 | 17 of 18 | WNW/148.4 | 206.9 / -2.00 | 1389147 ONTARIO INC 16 CADETTA ROAD BRAMPTON ON L6P0X4 | GEN |
| Generator No: | ON2949179 | | | 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: | | | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | 252 L | | | | |
| Waste Class Desc: | Waste crankcase oils and lubricants | | | | |
| 28 | 18 of 18 | WNW/148.4 | 206.9 / -2.00 | 1389147 ONTARIO INC 16 CADETTA ROAD BRAMPTON ON L6P0X4 | GEN |
| Generator No: | ON2949179 | | | PO Box No: | |
| Status: | Registered | | | Country: | Canada |
| Approval Years: | As of Mar 2019 | | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | | | | | |
| SIC Description: | | | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | 252 L | | | | |
| Waste Class Desc: | Waste crankcase oils and lubricants | | | | |
| 29 | 1 of 1 | NW/156.2 | 208.7 / -0.14 | lot 12 con 11 ON | WWIS |
| Well ID: | 4905769 | | | Data Entry Status: | |
| Construction Date: | | | | Data Src: | 1 |
| Primary Water Use: | Industrial | | | Date Received: | 4/10/1981 |
| Sec. Water Use: | | | | Selected Flag: | Yes |
| Final Well Status: | Water Supply | | | Abandonment Rec: | |
| Water Type: | | | | Contractor: | 1413 |
| Casing Material: | | | | Form Version: | 1 |
| Audit No: | | | | Owner: | |
| Tag: | | | | Street Name: | |
| Construction Method: | | | | County: | PEEL |
| Elevation (m): | | | | Municipality: | BRAMPTON CITY (TORONTO GORE) |
| Elevation Reliability: | | | | Site Info: | |
| Depth to Bedrock: | | | | Lot: | 012 |
| Well Depth: | | | | Concession: | 11 |
| Overburden/Bedrock: | | | | Concession Name: | CON |
| Pump Rate: | | | | Easting NAD83: | |
| Static Water Level: | | | | Northing NAD83: | |
| Flowing (Y/N): | | | | Zone: | |
| Flow Rate: | | | | UTM Reliability: | |
| Clear/Cloudy: | | | | | |
| <u>Bore Hole Information</u> | | | | | |
| Bore Hole ID: | 10320462 | | | Elevation: | 208.523986 |
| DP2BR: | | | | Elevrc: | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|-------------------------------------|-------------------|----------------------------|------------------|-------------------------|--------------------------------|
| Spatial Status: | | | | Zone: | 17 |
| Code OB: | o | | | East83: | 606120.6 |
| Code OB Desc: | Overburden | | | North83: | 4852223 |
| Open Hole: | | | | Org CS: | |
| Cluster Kind: | | | | UTMRC: | 4 |
| Date Completed: | 3/26/1981 | | | UTMRC Desc: | margin of error : 30 m - 100 m |
| Remarks: | | | | Location Method: | topo |
| Elevrc Desc: | | | | | |
| Location Source Date: | | | | | |
| Improvement Location Source: | | | | | |
| Improvement Location Method: | | | | | |
| Source Revision Comment: | | | | | |
| Supplier Comment: | | | | | |

Overburden and Bedrock
Materials Interval

Formation ID: 932051222
Layer: 3
Color: 6
General Color: BROWN
Mat1: 28
Most Common Material: SAND
Mat2: 11
Other Materials: GRAVEL
Mat3: 74
Other Materials: LAYERED
Formation Top Depth: 42
Formation End Depth: 45
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 932051221
Layer: 2
Color: 3
General Color: BLUE
Mat1: 05
Most Common Material: CLAY
Mat2: 66
Other Materials: DENSE
Mat3:
Other Materials:
Formation Top Depth: 14
Formation End Depth: 42
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 932051220
Layer: 1
Color: 6
General Color: BROWN
Mat1: 05
Most Common Material: CLAY
Mat2: 66
Other Materials: DENSE
Mat3:
Other Materials:
Formation Top Depth: 0
Formation End Depth: 14

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|---|--------------------------|--------------------------------|----------------------|-------------|-----------|
| Formation End Depth UOM: | | ft | | | |
| <u>Method of Construction & Well Use</u> | | | | | |
| Method Construction ID: | | | | | |
| Method Construction Code: | | 2 | | | |
| Method Construction: | | Rotary (Convent.) | | | |
| Other Method Construction: | | | | | |
| <u>Pipe Information</u> | | | | | |
| Pipe ID: | | 10869032 | | | |
| Casing No: | | 1 | | | |
| Comment: | | | | | |
| Alt Name: | | | | | |
| <u>Construction Record - Casing</u> | | | | | |
| Casing ID: | | 930528764 | | | |
| Layer: | | 1 | | | |
| Material: | | 1 | | | |
| Open Hole or Material: | | STEEL | | | |
| Depth From: | | | | | |
| Depth To: | | 45 | | | |
| Casing Diameter: | | 8 | | | |
| Casing Diameter UOM: | | inch | | | |
| Casing Depth UOM: | | ft | | | |
| <u>Results of Well Yield Testing</u> | | | | | |
| Pump Test ID: | | 994905769 | | | |
| Pump Set At: | | | | | |
| Static Level: | | 9 | | | |
| Final Level After Pumping: | | 37 | | | |
| Recommended Pump Depth: | | 40 | | | |
| Pumping Rate: | | 3 | | | |
| Flowing Rate: | | | | | |
| Recommended Pump Rate: | | 3 | | | |
| Levels UOM: | | ft | | | |
| Rate UOM: | | GPM | | | |
| Water State After Test Code: | | 2 | | | |
| Water State After Test: | | CLOUDY | | | |
| Pumping Test Method: | | 2 | | | |
| Pumping Duration HR: | | 2 | | | |
| Pumping Duration MIN: | | 30 | | | |
| Flowing: | | N | | | |
| <u>Draw Down & Recovery</u> | | | | | |
| Pump Test Detail ID: | | 934781757 | | | |
| Test Type: | | | | | |
| Test Duration: | | 45 | | | |
| Test Level: | | 33 | | | |
| Test Level UOM: | | ft | | | |
| <u>Draw Down & Recovery</u> | | | | | |
| Pump Test Detail ID: | | 935046770 | | | |
| Test Type: | | | | | |
| Test Duration: | | 60 | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--|-------------------|----------------------------|------------------|------|----|
| Test Level: | | 34 | | | |
| Test Level UOM: | | ft | | | |
| <u>Draw Down & Recovery</u> | | | | | |
| Pump Test Detail ID: | | 934527653 | | | |
| Test Type: | | | | | |
| Test Duration: | | 30 | | | |
| Test Level: | | 29 | | | |
| Test Level UOM: | | ft | | | |
| <u>Draw Down & Recovery</u> | | | | | |
| Pump Test Detail ID: | | 934261913 | | | |
| Test Type: | | | | | |
| Test Duration: | | 15 | | | |
| Test Level: | | 23 | | | |
| Test Level UOM: | | ft | | | |
| <u>Water Details</u> | | | | | |
| Water ID: | | 933793781 | | | |
| Layer: | | 1 | | | |
| Kind Code: | | 1 | | | |
| Kind: | | FRESH | | | |
| Water Found Depth: | | 45 | | | |
| Water Found Depth UOM: | | ft | | | |

| <u>30</u> | 1 of 1 | E/156.5 | 205.9 / -3.00 | KLEINBURG ON | WWIS |
|-------------------------------------|-------------------|---------|---------------|---------------------------|--------------------------------|
| Well ID: | 7302202 | | | Data Entry Status: | |
| Construction Date: | | | | Data Src: | |
| Primary Water Use: | Test Hole | | | Date Received: | 12/22/2017 |
| Sec. Water Use: | Monitoring | | | Selected Flag: | Yes |
| Final Well Status: | Observation Wells | | | Abandonment Rec: | |
| Water Type: | | | | Contractor: | 7241 |
| Casing Material: | | | | Form Version: | 7 |
| Audit No: | Z274188 | | | Owner: | |
| Tag: | A166933 | | | Street Name: | 9501 HWY 50 |
| Construction Method: | | | | County: | YORK |
| Elevation (m): | | | | Municipality: | VAUGHAN TOWN (VAUGHAN TWP) |
| 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: | | | | | |
| <u>Bore Hole Information</u> | | | | | |
| Bore Hole ID: | 1006924740 | | | Elevation: | 208.086349 |
| DP2BR: | | | | Elevrc: | |
| Spatial Status: | | | | Zone: | 17 |
| Code OB: | | | | East83: | 606723 |
| Code OB Desc: | | | | North83: | 4851917 |
| Open Hole: | | | | Org CS: | UTM83 |
| Cluster Kind: | | | | UTMRC: | 4 |
| Date Completed: | 11/23/2017 | | | UTMRC Desc: | margin of error : 30 m - 100 m |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|---|-------------------|----------------------------|------------------|-------------------------|-----|
| Remarks: | | | | Location Method: | WWF |
| Elevrc Desc: | | | | | |
| Location Source Date: | | | | | |
| Improvement Location Source: | | | | | |
| Improvement Location Method: | | | | | |
| Source Revision Comment: | | | | | |
| Supplier Comment: | | | | | |
| | | | | | |
| <u>Overburden and Bedrock</u> | | | | | |
| <u>Materials Interval</u> | | | | | |
| | | | | | |
| Formation ID: | | 1007100385 | | | |
| Layer: | | 3 | | | |
| Color: | | 2 | | | |
| General Color: | | GREY | | | |
| Mat1: | | 06 | | | |
| Most Common Material: | | SILT | | | |
| Mat2: | | 34 | | | |
| Other Materials: | | TILL | | | |
| Mat3: | | | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | | 15 | | | |
| Formation End Depth: | | 23 | | | |
| Formation End Depth UOM: | | ft | | | |
| | | | | | |
| <u>Overburden and Bedrock</u> | | | | | |
| <u>Materials Interval</u> | | | | | |
| | | | | | |
| Formation ID: | | 1007100384 | | | |
| Layer: | | 2 | | | |
| Color: | | 6 | | | |
| General Color: | | BROWN | | | |
| Mat1: | | 06 | | | |
| Most Common Material: | | SILT | | | |
| Mat2: | | 34 | | | |
| Other Materials: | | TILL | | | |
| Mat3: | | | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | | 7 | | | |
| Formation End Depth: | | 15 | | | |
| Formation End Depth UOM: | | ft | | | |
| | | | | | |
| <u>Overburden and Bedrock</u> | | | | | |
| <u>Materials Interval</u> | | | | | |
| | | | | | |
| Formation ID: | | 1007100383 | | | |
| Layer: | | 1 | | | |
| Color: | | 6 | | | |
| General Color: | | BROWN | | | |
| Mat1: | | 11 | | | |
| Most Common Material: | | GRAVEL | | | |
| Mat2: | | | | | |
| Other Materials: | | | | | |
| Mat3: | | | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | | 0 | | | |
| Formation End Depth: | | 7 | | | |
| Formation End Depth UOM: | | ft | | | |
| | | | | | |
| <u>Annular Space/Abandonment</u> | | | | | |
| <u>Sealing Record</u> | | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--|--------------------------|------------------------------------|--------------------------|-------------|-----------|
| Plug ID: | | 1007100394 | | | |
| Layer: | | 2 | | | |
| Plug From: | | 1 | | | |
| Plug To: | | 12 | | | |
| Plug Depth UOM: | | ft | | | |
| <u>Annular Space/Abandonment Sealing Record</u> | | | | | |
| Plug ID: | | 1007100395 | | | |
| Layer: | | 3 | | | |
| Plug From: | | 12 | | | |
| Plug To: | | 23 | | | |
| Plug Depth UOM: | | ft | | | |
| <u>Annular Space/Abandonment Sealing Record</u> | | | | | |
| Plug ID: | | 1007100393 | | | |
| Layer: | | 1 | | | |
| Plug From: | | 0 | | | |
| Plug To: | | 1 | | | |
| Plug Depth UOM: | | ft | | | |
| <u>Method of Construction & Well Use</u> | | | | | |
| Method Construction ID: | | | | | |
| Method Construction Code: | | D | | | |
| Method Construction: | | Direct Push | | | |
| Other Method Construction: | | | | | |
| <u>Pipe Information</u> | | | | | |
| Pipe ID: | | 1007100382 | | | |
| Casing No: | | 0 | | | |
| Comment: | | | | | |
| Alt Name: | | | | | |
| <u>Construction Record - Casing</u> | | | | | |
| Casing ID: | | 1007100388 | | | |
| Layer: | | 1 | | | |
| Material: | | 5 | | | |
| Open Hole or Material: | | PLASTIC | | | |
| Depth From: | | 0 | | | |
| Depth To: | | 13 | | | |
| Casing Diameter: | | 2 | | | |
| Casing Diameter UOM: | | inch | | | |
| Casing Depth UOM: | | ft | | | |
| <u>Construction Record - Screen</u> | | | | | |
| Screen ID: | | 1007100389 | | | |
| Layer: | | 1 | | | |
| Slot: | | 10 | | | |
| Screen Top Depth: | | 13 | | | |
| Screen End Depth: | | 23 | | | |
| Screen Material: | | 5 | | | |
| Screen Depth UOM: | | ft | | | |
| Screen Diameter UOM: | | inch | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|-----------------------------|-------------------|----------------------------|------------------|------|----|
| Screen Diameter: | | 2.25 | | | |
| <u>Hole Diameter</u> | | | | | |
| Hole ID: | | 1007100386 | | | |
| Diameter: | | 6 | | | |
| Depth From: | | 0 | | | |
| Depth To: | | 23 | | | |
| Hole Depth UOM: | | ft | | | |
| Hole Diameter UOM: | | inch | | | |

| | | | | | |
|------------------------|--------|------------------|---------------|---|------|
| 31 | 1 of 1 | WNW/157.8 | 206.9 / -2.00 | lot 12 con 11 ON | WWIS |
| Well ID: | | 7225368 | | Data Entry Status: | |
| Construction Date: | | | | Data Src: | |
| Primary Water Use: | | Not Used | | Date Received: 8/12/2014 | |
| Sec. Water Use: | | | | Selected Flag: Yes | |
| Final Well Status: | | Abandoned-Supply | | Abandonment Rec: Yes | |
| Water Type: | | | | Contractor: 1663 | |
| Casing Material: | | | | Form Version: 7 | |
| Audit No: | | Z185833 | | Owner: | |
| Tag: | | | | Street Name: 16 CADETTA RD. | |
| Construction Method: | | | | County: PEEL | |
| Elevation (m): | | | | Municipality: BRAMPTON CITY (TORONTO GORE) | |
| Elevation Reliability: | | | | Site Info: | |
| Depth to Bedrock: | | | | Lot: 012 | |
| Well Depth: | | | | Concession: 11 | |
| Overburden/Bedrock: | | | | Concession Name: CON | |
| Pump Rate: | | | | Easting NAD83: | |
| Static Water Level: | | | | Northing NAD83: | |
| Flowing (Y/N): | | | | Zone: | |
| Flow Rate: | | | | UTM Reliability: | |
| Clear/Cloudy: | | | | | |

Bore Hole Information

| | | | | | |
|------------------------------|--|------------|--|---|--|
| Bore Hole ID: | | 1005056302 | | Elevation: 207.600082 | |
| DP2BR: | | | | Elevrc: | |
| Spatial Status: | | | | Zone: 17 | |
| Code OB: | | | | East83: 605984 | |
| Code OB Desc: | | | | North83: 4852053 | |
| Open Hole: | | | | Org CS: UTM83 | |
| Cluster Kind: | | | | UTMRC: 4 | |
| Date Completed: | | 6/6/2014 | | 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: | | | | | |

**Annular Space/Abandonment
Sealing Record**

| | | | |
|-----------------|--|------------|--|
| Plug ID: | | 1005270613 | |
| Layer: | | 2 | |
| Plug From: | | 2 | |
| Plug To: | | 12 | |
| Plug Depth UOM: | | m | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--|--------------------------|------------------------------------|--------------------------|-------------|-----------|
| <u>Annular Space/Abandonment Sealing Record</u> | | | | | |
| Plug ID: | | 1005270612 | | | |
| Layer: | | 1 | | | |
| Plug From: | | 0 | | | |
| Plug To: | | 2 | | | |
| Plug Depth UOM: | | m | | | |
| <u>Method of Construction & Well Use</u> | | | | | |
| Method Construction ID: | | | | | |
| Method Construction Code: | | B | | | |
| Method Construction: | | Other Method | | | |
| Other Method Construction: | | | | | |
| <u>Pipe Information</u> | | | | | |
| Pipe ID: | | 1005270603 | | | |
| Casing No: | | 0 | | | |
| Comment: | | | | | |
| Alt Name: | | | | | |
| <u>Construction Record - Casing</u> | | | | | |
| Casing ID: | | 1005270608 | | | |
| Layer: | | 1 | | | |
| Material: | | 3 | | | |
| Open Hole or Material: | | CONCRETE | | | |
| Depth From: | | 0 | | | |
| Depth To: | | 12 | | | |
| Casing Diameter: | | 92 | | | |
| Casing Diameter UOM: | | cm | | | |
| Casing Depth UOM: | | m | | | |
| <u>Construction Record - Screen</u> | | | | | |
| Screen ID: | | 1005270609 | | | |
| Layer: | | | | | |
| Slot: | | | | | |
| Screen Top Depth: | | | | | |
| Screen End Depth: | | | | | |
| Screen Material: | | | | | |
| Screen Depth UOM: | | m | | | |
| Screen Diameter UOM: | | cm | | | |
| Screen Diameter: | | | | | |
| <u>Results of Well Yield Testing</u> | | | | | |
| Pump Test ID: | | 1005270604 | | | |
| Pump Set At: | | | | | |
| Static Level: | | 1 | | | |
| Final Level After Pumping: | | | | | |
| Recommended Pump Depth: | | | | | |
| Pumping Rate: | | | | | |
| Flowing Rate: | | | | | |
| Recommended Pump Rate: | | | | | |
| Levels UOM: | | m | | | |
| Rate UOM: | | LPM | | | |
| Water State After Test Code: | | 0 | | | |
| Water State After Test: | | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|-----------------------------|-------------------|----------------------------|------------------|------|----|
| Pumping Test Method: | | 0 | | | |
| Pumping Duration HR: | | | | | |
| Pumping Duration MIN: | | | | | |
| Flowing: | | | | | |
| <u>Water Details</u> | | | | | |
| Water ID: | | 1005270607 | | | |
| Layer: | | 1 | | | |
| Kind Code: | | 8 | | | |
| Kind: | | Untested | | | |
| Water Found Depth: | | | | | |
| Water Found Depth UOM: | | m | | | |
| <u>Hole Diameter</u> | | | | | |
| Hole ID: | | 1005270606 | | | |
| Diameter: | | 92 | | | |
| Depth From: | | 0 | | | |
| Depth To: | | 12 | | | |
| Hole Depth UOM: | | m | | | |
| Hole Diameter UOM: | | cm | | | |

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1 of 1

NW/158.2

207.5 / -1.38

Brampton ON

[WWIS](#)

Well ID: 7178624
Construction Date:
Primary Water Use: Test Hole
Sec. Water Use:
Final Well Status: Test Hole
Water Type:
Casing Material:
Audit No: Z145891
Tag: A126986
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src:
Date Received: 3/29/2012
Selected Flag: Yes
Abandonment Rec:
Contractor: 7320
Form Version: 7
Owner:
Street Name: 16 CADETLA ROAD
County: PEEL
Municipality: BRAMPTON CITY (TORONTO GORE)
Site Info:
Lot:
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 1003706330
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 3/21/2012
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:

Elevation: 208.060363
Elevrc:
Zone: 17
East83: 606073
North83: 4852166
Org CS: UTM83
UTMRC: 4
UTMRC Desc: margin of error : 30 m - 100 m
Location Method: wwr

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--------------------------------------|--------------------------|------------------------------------|--------------------------|-------------|-----------|
| <i>Source Revision Comment:</i> | | | | | |
| <i>Supplier Comment:</i> | | | | | |
| <u>Overburden and Bedrock</u> | | | | | |
| <u>Materials Interval</u> | | | | | |
| Formation ID: | | | 1004229769 | | |
| Layer: | | | 3 | | |
| Color: | | | 6 | | |
| General Color: | | | BROWN | | |
| Mat1: | | | 05 | | |
| Most Common Material: | | | CLAY | | |
| Mat2: | | | 06 | | |
| Other Materials: | | | SILT | | |
| Mat3: | | | 66 | | |
| Other Materials: | | | DENSE | | |
| Formation Top Depth: | | | 2.5 | | |
| Formation End Depth: | | | 4.6 | | |
| Formation End Depth UOM: | | | m | | |
| <u>Overburden and Bedrock</u> | | | | | |
| <u>Materials Interval</u> | | | | | |
| Formation ID: | | | 1004229770 | | |
| Layer: | | | 4 | | |
| Color: | | | 2 | | |
| General Color: | | | GREY | | |
| Mat1: | | | 05 | | |
| Most Common Material: | | | CLAY | | |
| Mat2: | | | 06 | | |
| Other Materials: | | | SILT | | |
| Mat3: | | | 11 | | |
| Other Materials: | | | GRAVEL | | |
| Formation Top Depth: | | | 4.6 | | |
| Formation End Depth: | | | 12.1 | | |
| Formation End Depth UOM: | | | m | | |
| <u>Overburden and Bedrock</u> | | | | | |
| <u>Materials Interval</u> | | | | | |
| Formation ID: | | | 1004229768 | | |
| Layer: | | | 2 | | |
| Color: | | | 6 | | |
| General Color: | | | BROWN | | |
| Mat1: | | | 28 | | |
| Most Common Material: | | | SAND | | |
| Mat2: | | | 11 | | |
| Other Materials: | | | GRAVEL | | |
| Mat3: | | | 77 | | |
| Other Materials: | | | LOOSE | | |
| Formation Top Depth: | | | 4.6 | | |
| Formation End Depth: | | | 2.5 | | |
| Formation End Depth UOM: | | | m | | |
| <u>Overburden and Bedrock</u> | | | | | |
| <u>Materials Interval</u> | | | | | |
| Formation ID: | | | 1004229767 | | |
| Layer: | | | 1 | | |
| Color: | | | 6 | | |
| General Color: | | | BROWN | | |
| Mat1: | | | 05 | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--|--------------------------|------------------------------------|--------------------------|-------------|-----------|
| Most Common Material: | | | | | |
| Mat2: | | CLAY | | | |
| Other Materials: | | 06 | | | |
| Mat3: | | SILT | | | |
| Other Materials: | | 85 | | | |
| Formation Top Depth: | | SOFT | | | |
| Formation End Depth: | | 0 | | | |
| Formation End Depth UOM: | | 4.6 | | | |
| | | m | | | |
| <u>Annular Space/Abandonment Sealing Record</u> | | | | | |
| Plug ID: | | 1004229778 | | | |
| Layer: | | 2 | | | |
| Plug From: | | 0.3 | | | |
| Plug To: | | 6.2 | | | |
| Plug Depth UOM: | | m | | | |
| <u>Annular Space/Abandonment Sealing Record</u> | | | | | |
| Plug ID: | | 1004229779 | | | |
| Layer: | | 3 | | | |
| Plug From: | | 6.2 | | | |
| Plug To: | | 12.1 | | | |
| Plug Depth UOM: | | m | | | |
| <u>Annular Space/Abandonment Sealing Record</u> | | | | | |
| Plug ID: | | 1004229777 | | | |
| Layer: | | 1 | | | |
| Plug From: | | 0 | | | |
| Plug To: | | 0.3 | | | |
| Plug Depth UOM: | | m | | | |
| <u>Method of Construction & Well Use</u> | | | | | |
| Method Construction ID: | | | | | |
| Method Construction Code: | | 6 | | | |
| Method Construction: | | Boring | | | |
| Other Method Construction: | | HSA | | | |
| <u>Pipe Information</u> | | | | | |
| Pipe ID: | | 1004229766 | | | |
| Casing No: | | 0 | | | |
| Comment: | | | | | |
| Alt Name: | | | | | |
| <u>Construction Record - Casing</u> | | | | | |
| Casing ID: | | 1004229773 | | | |
| Layer: | | 1 | | | |
| Material: | | 5 | | | |
| Open Hole or Material: | | PLASTIC | | | |
| Depth From: | | 0 | | | |
| Depth To: | | 10.6 | | | |
| Casing Diameter: | | 5.1 | | | |
| Casing Diameter UOM: | | cm | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|---|-------------------|------------------------------|---------------------|---|-------------|
| Casing Depth UOM: | | m | | | |
| <u>Construction Record - Screen</u> | | | | | |
| Screen ID: | | 1004229774 | | | |
| Layer: | | 1 | | | |
| Slot: | | 10 | | | |
| Screen Top Depth: | | 10.6 | | | |
| Screen End Depth: | | 12.1 | | | |
| Screen Material: | | 5 | | | |
| Screen Depth UOM: | | m | | | |
| Screen Diameter UOM: | | cm | | | |
| Screen Diameter: | | 6.1 | | | |
| <u>Water Details</u> | | | | | |
| Water ID: | | 1004229772 | | | |
| Layer: | | 1 | | | |
| Kind Code: | | 8 | | | |
| Kind: | | Untested | | | |
| Water Found Depth: | | 1.25 | | | |
| Water Found Depth UOM: | | m | | | |
| <u>Hole Diameter</u> | | | | | |
| Hole ID: | | 1004229771 | | | |
| Diameter: | | 15 | | | |
| Depth From: | | 0 | | | |
| Depth To: | | 12.1 | | | |
| Hole Depth UOM: | | m | | | |
| Hole Diameter UOM: | | cm | | | |
| 33 | 1 of 1 | NNW/160.5 | 209.9 / 1.00 | Coleraine junkyard 1976 Kleinburg ON L0J 1C0 | ANDR |
| Legal Description: | | Toronto Gore Con 9 Lot 12 pt | | | |
| Location Description: | | W of Highway 50 | | | |
| Municipality: | | Brampton City | | | |
| Current Municipality: | | Brampton City | | | |
| RM: | | Peel Region | | | |
| Facility: | | Auto Junkyard | | | |
| Date Active: | | 1976 | | | |
| Date Begun: | | | | | |
| Date Complete: | | | | | |
| Area (Ha): | | 9.625 | | | |
| Landfill Type: | | | | | |
| Group Name: | | Humber River | | | |
| Operated By: | | Metro Auto Wreckers Inc | | | |
| Serial: | | JY PEEL5 1976 | | | |
| NTS: | | 30M12 | | | |
| Diameter (m): | | | | | |
| Historical Summary: | | | | | |
| Coleraine junkyard 1976 1978 NTS Map Junkyard marked [1978 NTS 1:50,000 map Brampton ON Sheet 30M13 Edition 5]. | | | | | |
| Waste Type: | | | | | |
| UTM X Nad 27: | | 606200 | | | |
| UTM Y Nad 27: | | 4852125 | | | |
| UTM Zone: | | 17 | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--------------------------------------|-------------------|----------------------------|------------------|---|------|
| 34 | 1 of 1 | E/164.3 | 205.9 / -3.00 | KLEINBURG ON | WWIS |
| Well ID: | | 7302201 | | Data Entry Status: | |
| Construction Date: | | | | Data Src: | |
| Primary Water Use: | | Test Hole | | Date Received: 12/22/2017 | |
| Sec. Water Use: | | Monitoring | | Selected Flag: Yes | |
| Final Well Status: | | Observation Wells | | Abandonment Rec: | |
| Water Type: | | | | Contractor: 7241 | |
| Casing Material: | | | | Form Version: 7 | |
| Audit No: | | Z274187 | | Owner: | |
| Tag: | | A217619 | | Street Name: 9501 HWY 50 | |
| Construction Method: | | | | County: YORK | |
| Elevation (m): | | | | Municipality: VAUGHAN TOWN (VAUGHAN TWP) | |
| 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: | | | | | |
| <u>Bore Hole Information</u> | | | | | |
| Bore Hole ID: | | 1006924737 | | Elevation: 208.014694 | |
| DP2BR: | | | | Elevrc: | |
| Spatial Status: | | | | Zone: 17 | |
| Code OB: | | | | East83: 606728 | |
| Code OB Desc: | | | | North83: 4851899 | |
| Open Hole: | | | | Org CS: UTM83 | |
| Cluster Kind: | | | | UTMRC: 4 | |
| Date Completed: | | 11/23/2017 | | 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: | | | | | |
| <u>Overburden and Bedrock</u> | | | | | |
| <u>Materials Interval</u> | | | | | |
| Formation ID: | | 1007100370 | | | |
| Layer: | | 2 | | | |
| Color: | | 6 | | | |
| General Color: | | BROWN | | | |
| Mat1: | | 06 | | | |
| Most Common Material: | | SILT | | | |
| Mat2: | | 34 | | | |
| Other Materials: | | TILL | | | |
| Mat3: | | | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | | 5 | | | |
| Formation End Depth: | | 15 | | | |
| Formation End Depth UOM: | | ft | | | |
| <u>Overburden and Bedrock</u> | | | | | |
| <u>Materials Interval</u> | | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|---|--------------------------|------------------------------------|--------------------------|-------------|-----------|
| Formation ID: | | 1007100369 | | | |
| Layer: | | 1 | | | |
| Color: | | 6 | | | |
| General Color: | | BROWN | | | |
| Mat1: | | 11 | | | |
| Most Common Material: | | GRAVEL | | | |
| Mat2: | | | | | |
| Other Materials: | | | | | |
| Mat3: | | | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | | 0 | | | |
| Formation End Depth: | | 5 | | | |
| Formation End Depth UOM: | | ft | | | |
| <u>Overburden and Bedrock Materials Interval</u> | | | | | |
| Formation ID: | | 1007100371 | | | |
| Layer: | | 3 | | | |
| Color: | | 2 | | | |
| General Color: | | GREY | | | |
| Mat1: | | 05 | | | |
| Most Common Material: | | CLAY | | | |
| Mat2: | | 34 | | | |
| Other Materials: | | TILL | | | |
| Mat3: | | | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | | 15 | | | |
| Formation End Depth: | | 25 | | | |
| Formation End Depth UOM: | | ft | | | |
| <u>Annular Space/Abandonment Sealing Record</u> | | | | | |
| Plug ID: | | 1007100380 | | | |
| Layer: | | 2 | | | |
| Plug From: | | 1 | | | |
| Plug To: | | 14 | | | |
| Plug Depth UOM: | | ft | | | |
| <u>Annular Space/Abandonment Sealing Record</u> | | | | | |
| Plug ID: | | 1007100379 | | | |
| Layer: | | 1 | | | |
| Plug From: | | 0 | | | |
| Plug To: | | 1 | | | |
| Plug Depth UOM: | | ft | | | |
| <u>Annular Space/Abandonment Sealing Record</u> | | | | | |
| Plug ID: | | 1007100381 | | | |
| Layer: | | 3 | | | |
| Plug From: | | 14 | | | |
| Plug To: | | 25 | | | |
| Plug Depth UOM: | | ft | | | |
| <u>Method of Construction & Well Use</u> | | | | | |
| Method Construction ID: | | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--|-------------------|----------------------------|------------------|------|----|
| Method Construction Code: | | D | | | |
| Method Construction: | | Direct Push | | | |
| Other Method Construction: | | | | | |
| <u>Pipe Information</u> | | | | | |
| Pipe ID: | | 1007100368 | | | |
| Casing No: | | 0 | | | |
| Comment: | | | | | |
| Alt Name: | | | | | |
| <u>Construction Record - Casing</u> | | | | | |
| Casing ID: | | 1007100374 | | | |
| Layer: | | 1 | | | |
| Material: | | 5 | | | |
| Open Hole or Material: | | PLASTIC | | | |
| Depth From: | | 0 | | | |
| Depth To: | | 15 | | | |
| Casing Diameter: | | 2 | | | |
| Casing Diameter UOM: | | inch | | | |
| Casing Depth UOM: | | ft | | | |
| <u>Construction Record - Screen</u> | | | | | |
| Screen ID: | | 1007100375 | | | |
| Layer: | | 1 | | | |
| Slot: | | 10 | | | |
| Screen Top Depth: | | 15 | | | |
| Screen End Depth: | | 25 | | | |
| Screen Material: | | 5 | | | |
| Screen Depth UOM: | | ft | | | |
| Screen Diameter UOM: | | inch | | | |
| Screen Diameter: | | 2.25 | | | |
| <u>Hole Diameter</u> | | | | | |
| Hole ID: | | 1007100372 | | | |
| Diameter: | | 6 | | | |
| Depth From: | | 0 | | | |
| Depth To: | | 25 | | | |
| Hole Depth UOM: | | ft | | | |
| Hole Diameter UOM: | | inch | | | |

[35](#)

1 of 1

NNW/164.6

209.9 / 1.00

Coleraine junkyard 1969

ANDR

Kleinburg ON L0J 1C0

| | |
|------------------------------|---|
| Legal Description: | Toronto Gore Con 9 Lot 12 pt |
| Location Description: | 25m SW of Highway 50, adj. Humber R trib., on site u/g gas pipeline |
| Municipality: | Toronto Gore Township |
| Current Municipality: | Brampton City |
| RM: | Peel Region |
| Facility: | Auto junkyard |
| Date Active: | 1969 |
| Date Begun: | |
| Date Complete: | |
| Area (Ha): | 11.25 |
| Landfill Type: | |
| Group Name: | Humber River |
| Operated By: | Metro Truck Wreckers |
| Serial: | JY PEEL5 1969 |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--|-------------------|----------------------------|------------------|------|----|
| NTS: | | 30M12 | | | |
| Diameter (m): | | 375 | | | |
| Historical Summary: | | | | | |
| Coleraine junkyard 1969 1972 NTS Map 30M12B Junkyard marked, 375m x 300m, 25m SW of Highway 50, adj. Humber R trib., on site u/g gas pipeline [1972 NTS 1:25,000 Map Wildfield ON Sheet 30M12B Edition 2 (air photos 1969, culture check 1970, printed 1972)]. | | | | | |
| Waste Type: | | | | | |
| UTM X Nad 27: | | 606175 | | | |
| UTM Y Nad 27: | | 4852100 | | | |
| UTM Zone: | | 17 | | | |

| <u>36</u> | 1 of 1 | WNW/178.4 | 206.9 / -2.00 | lot 12 con 11 ON | WWIS |
|-------------------------------|------------|-----------|---------------|---------------------------|------------------------------|
| Well ID: | 4905768 | | | Data Entry Status: | |
| Construction Date: | | | | Data Src: | 1 |
| Primary Water Use: | Industrial | | | Date Received: | 4/10/1981 |
| Sec. Water Use: | | | | Selected Flag: | Yes |
| Final Well Status: | Test Hole | | | Abandonment Rec: | |
| Water Type: | | | | Contractor: | 1413 |
| Casing Material: | | | | Form Version: | 1 |
| Audit No: | | | | Owner: | |
| Tag: | | | | Street Name: | |
| Construction Method: | | | | County: | PEEL |
| Elevation (m): | | | | Municipality: | BRAMPTON CITY (TORONTO GORE) |
| Elevation Reliability: | | | | Site Info: | |
| Depth to Bedrock: | | | | Lot: | 012 |
| Well Depth: | | | | Concession: | 11 |
| Overburden/Bedrock: | | | | Concession Name: | CON |
| Pump Rate: | | | | Easting NAD83: | |
| Static Water Level: | | | | Northing NAD83: | |
| Flowing (Y/N): | | | | Zone: | |
| Flow Rate: | | | | UTM Reliability: | |
| Clear/Cloudy: | | | | | |

Bore Hole Information

| | | | |
|-------------------------------------|-----------|-------------------------|--------------------------------|
| Bore Hole ID: | 10320461 | Elevation: | 208.466079 |
| DP2BR: | 64 | Elevrc: | |
| Spatial Status: | | Zone: | 17 |
| Code OB: | r | East83: | 606015.6 |
| Code OB Desc: | Bedrock | North83: | 4852126 |
| Open Hole: | | Org CS: | |
| Cluster Kind: | | UTMRC: | 4 |
| Date Completed: | 3/24/1981 | UTMRC Desc: | margin of error : 30 m - 100 m |
| Remarks: | | Location Method: | topo |
| Elevrc Desc: | | | |
| Location Source Date: | | | |
| Improvement Location Source: | | | |
| Improvement Location Method: | | | |
| Source Revision Comment: | | | |
| Supplier Comment: | | | |

Overburden and Bedrock

Materials Interval

| | |
|-----------------------|-----------|
| Formation ID: | 932051216 |
| Layer: | 2 |
| Color: | 3 |
| General Color: | BLUE |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|---|--------------------------|------------------------------------|--------------------------|-------------|-----------|
| Mat1: | | 05 | | | |
| Most Common Material: | | CLAY | | | |
| Mat2: | | 66 | | | |
| Other Materials: | | DENSE | | | |
| Mat3: | | | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | | 18 | | | |
| Formation End Depth: | | 37 | | | |
| Formation End Depth UOM: | | ft | | | |
| <u>Overburden and Bedrock Materials Interval</u> | | | | | |
| Formation ID: | | 932051217 | | | |
| Layer: | | 3 | | | |
| Color: | | 2 | | | |
| General Color: | | GREY | | | |
| Mat1: | | 05 | | | |
| Most Common Material: | | CLAY | | | |
| Mat2: | | 12 | | | |
| Other Materials: | | STONES | | | |
| Mat3: | | 73 | | | |
| Other Materials: | | HARD | | | |
| Formation Top Depth: | | 37 | | | |
| Formation End Depth: | | 64 | | | |
| Formation End Depth UOM: | | ft | | | |
| <u>Overburden and Bedrock Materials Interval</u> | | | | | |
| Formation ID: | | 932051215 | | | |
| Layer: | | 1 | | | |
| Color: | | 6 | | | |
| General Color: | | BROWN | | | |
| Mat1: | | 05 | | | |
| Most Common Material: | | CLAY | | | |
| Mat2: | | 66 | | | |
| Other Materials: | | DENSE | | | |
| Mat3: | | | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | | 0 | | | |
| Formation End Depth: | | 18 | | | |
| Formation End Depth UOM: | | ft | | | |
| <u>Overburden and Bedrock Materials Interval</u> | | | | | |
| Formation ID: | | 932051219 | | | |
| Layer: | | 5 | | | |
| Color: | | 2 | | | |
| General Color: | | GREY | | | |
| Mat1: | | 17 | | | |
| Most Common Material: | | SHALE | | | |
| Mat2: | | 74 | | | |
| Other Materials: | | LAYERED | | | |
| Mat3: | | | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | | 89 | | | |
| Formation End Depth: | | 122 | | | |
| Formation End Depth UOM: | | ft | | | |
| <u>Overburden and Bedrock</u> | | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|---|--------------------------|------------------------------------|--------------------------|-------------|-----------|
| <u>Materials Interval</u> | | | | | |
| Formation ID: | | 932051218 | | | |
| Layer: | | 4 | | | |
| Color: | | 2 | | | |
| General Color: | | GREY | | | |
| Mat1: | | 17 | | | |
| Most Common Material: | | SHALE | | | |
| Mat2: | | 66 | | | |
| Other Materials: | | DENSE | | | |
| Mat3: | | | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | | 64 | | | |
| Formation End Depth: | | 89 | | | |
| Formation End Depth UOM: | | ft | | | |
| <u>Method of Construction & Well Use</u> | | | | | |
| Method Construction ID: | | | | | |
| Method Construction Code: | | 2 | | | |
| Method Construction: | | Rotary (Convent.) | | | |
| Other Method Construction: | | | | | |
| <u>Pipe Information</u> | | | | | |
| Pipe ID: | | 10869031 | | | |
| Casing No: | | 1 | | | |
| Comment: | | | | | |
| Alt Name: | | | | | |
| <u>Construction Record - Casing</u> | | | | | |
| Casing ID: | | 930528763 | | | |
| Layer: | | 1 | | | |
| Material: | | 1 | | | |
| Open Hole or Material: | | STEEL | | | |
| Depth From: | | | | | |
| Depth To: | | 73 | | | |
| Casing Diameter: | | 8 | | | |
| Casing Diameter UOM: | | inch | | | |
| Casing Depth UOM: | | ft | | | |
| <u>Results of Well Yield Testing</u> | | | | | |
| Pump Test ID: | | 994905768 | | | |
| Pump Set At: | | | | | |
| Static Level: | | 11 | | | |
| Final Level After Pumping: | | 107 | | | |
| Recommended Pump Depth: | | 100 | | | |
| Pumping Rate: | | 2 | | | |
| Flowing Rate: | | | | | |
| Recommended Pump Rate: | | 2 | | | |
| Levels UOM: | | ft | | | |
| Rate UOM: | | GPM | | | |
| Water State After Test Code: | | 2 | | | |
| Water State After Test: | | CLOUDY | | | |
| Pumping Test Method: | | 2 | | | |
| Pumping Duration HR: | | 1 | | | |
| Pumping Duration MIN: | | 30 | | | |
| Flowing: | | N | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|---------------------------------|-------------------|----------------------------|------------------|------|----|
| <u>Draw Down & Recovery</u> | | | | | |
| Pump Test Detail ID: | | 934261912 | | | |
| Test Type: | | | | | |
| Test Duration: | | 15 | | | |
| Test Level: | | 26 | | | |
| Test Level UOM: | | ft | | | |
| <u>Draw Down & Recovery</u> | | | | | |
| Pump Test Detail ID: | | 935046769 | | | |
| Test Type: | | | | | |
| Test Duration: | | 60 | | | |
| Test Level: | | 57 | | | |
| Test Level UOM: | | ft | | | |
| <u>Draw Down & Recovery</u> | | | | | |
| Pump Test Detail ID: | | 934527652 | | | |
| Test Type: | | | | | |
| Test Duration: | | 30 | | | |
| Test Level: | | 38 | | | |
| Test Level UOM: | | ft | | | |
| <u>Draw Down & Recovery</u> | | | | | |
| Pump Test Detail ID: | | 934781756 | | | |
| Test Type: | | | | | |
| Test Duration: | | 45 | | | |
| Test Level: | | 48 | | | |
| Test Level UOM: | | ft | | | |
| <u>Water Details</u> | | | | | |
| Water ID: | | 933793780 | | | |
| Layer: | | 1 | | | |
| Kind Code: | | 4 | | | |
| Kind: | | MINERIAL | | | |
| Water Found Depth: | | 107 | | | |
| Water Found Depth UOM: | | ft | | | |

[37](#) 1 of 1 **ESE/184.8** **205.9 / -3.00** **Hwy 50
Brampton ON** **EHS**

| | | | |
|---------------------------------|---------------|------------------------------|------------|
| Order No: | 20161219094 | Nearest Intersection: | |
| Status: | C | Municipality: | |
| Report Type: | Custom Report | Client Prov/State: | ON |
| Report Date: | 28-DEC-16 | Search Radius (km): | .25 |
| Date Received: | 19-DEC-16 | X: | -79.673825 |
| Previous Site Name: | | Y: | 43.811221 |
| Lot/Building Size: | | | |
| Additional Info Ordered: | | | |

[38](#) 1 of 1 **N/187.5** **209.9 / 1.00** **JOE GALLO BROS. PAVING CO. LTD.
6 CADETTA ROAD
BRAMPTON ON L6T 3Z8** **GEN**

| | | | |
|------------------------|-----------|---------------------------|--|
| Generator No: | ON2652900 | PO Box No: | |
| Status: | | Country: | |
| Approval Years: | 01 | Choice of Contact: | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--|-------------------|--------------------------------|------------------|---|------|
| Contam. Facility: MHSW Facility: SIC Code: 3199 SIC Description: | | OTHER MACHINERY | | Co Admin: Phone No Admin: | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: Waste Class Desc: | | 252 WASTE OILS & LUBRICANTS | | | |
| 39 | 1 of 1 | WNW/188.6 | 207.9 / -1.00 | Cadetta Road Brampton ON | EHS |
| Order No: 20120131028 Status: C Report Type: Standard Select Report Report Date: 2/9/2012 4:28:40 PM Date Received: 1/31/2012 4:26:54 PM Previous Site Name: Lot/Building Size: Additional Info Ordered: | | | | Nearest Intersection: Municipality: Brampton Client Prov/State: ON Search Radius (km): 0.25 X: -79.68244 Y: 43.81417 | |
| 40 | 1 of 1 | NW/193.2 | 208.5 / -0.37 | lot 12 con 11 ON | WWIS |
| Well ID: 4905813 Construction Date: Primary Water Use: Domestic Sec. Water Use: Final Well Status: Water Supply Water Type: Casing Material: Audit No: Tag: Construction Method: Elevation (m): Elevation Reliability: Depth to Bedrock: Well Depth: Overburden/Bedrock: Pump Rate: Static Water Level: Flowing (Y/N): Flow Rate: Clear/Cloudy: | | | | Data Entry Status: Data Src: 1 Date Received: 11/3/1981 Selected Flag: Yes Abandonment Rec: Contractor: 3413 Form Version: 1 Owner: Street Name: County: PEEL Municipality: BRAMPTON CITY (TORONTO GORE) Site Info: Lot: 012 Concession: 11 Concession Name: CON Easting NAD83: Northing NAD83: Zone: UTM Reliability: | |
| <u>Bore Hole Information</u> | | | | | |
| Bore Hole ID: 10320498 DP2BR: Spatial Status: Code OB: o Code OB Desc: Overburden Open Hole: Cluster Kind: Date Completed: 4/28/1981 Remarks: Elevrc Desc: Location Source Date: Improvement Location Source: Improvement Location Method: Source Revision Comment: | | | | Elevation: 208.693344 Elevrc: Zone: 17 East83: 606087.6 North83: 4852241 Org CS: UTMRC: 4 UTMRC Desc: margin of error : 30 m - 100 m Location Method: topo | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|---|--------------------------|------------------------------------|--------------------------|-------------|-----------|
| <i>Supplier Comment:</i> | | | | | |
| <u>Overburden and Bedrock Materials Interval</u> | | | | | |
| Formation ID: | | 932051419 | | | |
| Layer: | | 1 | | | |
| Color: | | | | | |
| General Color: | | | | | |
| Mat1: | | 02 | | | |
| Most Common Material: | | TOPSOIL | | | |
| Mat2: | | | | | |
| Other Materials: | | | | | |
| Mat3: | | | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | | 0 | | | |
| Formation End Depth: | | 1 | | | |
| Formation End Depth UOM: | | ft | | | |
| <u>Overburden and Bedrock Materials Interval</u> | | | | | |
| Formation ID: | | 932051423 | | | |
| Layer: | | 5 | | | |
| Color: | | 3 | | | |
| General Color: | | BLUE | | | |
| Mat1: | | 05 | | | |
| Most Common Material: | | CLAY | | | |
| Mat2: | | | | | |
| Other Materials: | | | | | |
| Mat3: | | | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | | 35 | | | |
| Formation End Depth: | | 62 | | | |
| Formation End Depth UOM: | | ft | | | |
| <u>Overburden and Bedrock Materials Interval</u> | | | | | |
| Formation ID: | | 932051420 | | | |
| Layer: | | 2 | | | |
| Color: | | 6 | | | |
| General Color: | | BROWN | | | |
| Mat1: | | 05 | | | |
| Most Common Material: | | CLAY | | | |
| Mat2: | | | | | |
| Other Materials: | | | | | |
| Mat3: | | | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | | 1 | | | |
| Formation End Depth: | | 20 | | | |
| Formation End Depth UOM: | | ft | | | |
| <u>Overburden and Bedrock Materials Interval</u> | | | | | |
| Formation ID: | | 932051422 | | | |
| Layer: | | 4 | | | |
| Color: | | | | | |
| General Color: | | | | | |
| Mat1: | | 10 | | | |
| Most Common Material: | | COARSE SAND | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|---|--------------------------|------------------------------------|--------------------------|-------------|-----------|
| Mat2: | | | | | |
| Other Materials: | | | | | |
| Mat3: | | | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | | 32 | | | |
| Formation End Depth: | | 35 | | | |
| Formation End Depth UOM: | | ft | | | |
| | | | | | |
| <u>Overburden and Bedrock</u> | | | | | |
| <u>Materials Interval</u> | | | | | |
| | | | | | |
| Formation ID: | | 932051424 | | | |
| Layer: | | 6 | | | |
| Color: | | | | | |
| General Color: | | | | | |
| Mat1: | | 10 | | | |
| Most Common Material: | | COARSE SAND | | | |
| Mat2: | | 91 | | | |
| Other Materials: | | WATER-BEARING | | | |
| Mat3: | | | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | | 62 | | | |
| Formation End Depth: | | 64 | | | |
| Formation End Depth UOM: | | ft | | | |
| | | | | | |
| <u>Overburden and Bedrock</u> | | | | | |
| <u>Materials Interval</u> | | | | | |
| | | | | | |
| Formation ID: | | 932051421 | | | |
| Layer: | | 3 | | | |
| Color: | | 3 | | | |
| General Color: | | BLUE | | | |
| Mat1: | | 05 | | | |
| Most Common Material: | | CLAY | | | |
| Mat2: | | | | | |
| Other Materials: | | | | | |
| Mat3: | | | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | | 20 | | | |
| Formation End Depth: | | 32 | | | |
| Formation End Depth UOM: | | ft | | | |
| | | | | | |
| <u>Annular Space/Abandonment</u> | | | | | |
| <u>Sealing Record</u> | | | | | |
| | | | | | |
| Plug ID: | | 933169922 | | | |
| Layer: | | 1 | | | |
| Plug From: | | 18 | | | |
| Plug To: | | | | | |
| Plug Depth UOM: | | ft | | | |
| | | | | | |
| <u>Method of Construction & Well</u> | | | | | |
| <u>Use</u> | | | | | |
| | | | | | |
| Method Construction ID: | | | | | |
| Method Construction Code: | | 6 | | | |
| Method Construction: | | Boring | | | |
| Other Method Construction: | | | | | |
| | | | | | |
| <u>Pipe Information</u> | | | | | |
| | | | | | |
| Pipe ID: | | 10869068 | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|---|--------------------------|------------------------------------|--------------------------|-------------|-----------|
| Casing No: | 1 | | | | |
| Comment: | | | | | |
| Alt Name: | | | | | |
| <u>Construction Record - Casing</u> | | | | | |
| Casing ID: | 930528817 | | | | |
| Layer: | 1 | | | | |
| Material: | 1 | | | | |
| Open Hole or Material: | STEEL | | | | |
| Depth From: | | | | | |
| Depth To: | 52 | | | | |
| Casing Diameter: | 24 | | | | |
| Casing Diameter UOM: | inch | | | | |
| Casing Depth UOM: | ft | | | | |
| <u>Construction Record - Casing</u> | | | | | |
| Casing ID: | 930528818 | | | | |
| Layer: | 2 | | | | |
| Material: | 3 | | | | |
| Open Hole or Material: | CONCRETE | | | | |
| Depth From: | | | | | |
| Depth To: | 64 | | | | |
| Casing Diameter: | 30 | | | | |
| Casing Diameter UOM: | inch | | | | |
| Casing Depth UOM: | ft | | | | |
| <u>Construction Record - Screen</u> | | | | | |
| Screen ID: | 933359857 | | | | |
| Layer: | 1 | | | | |
| Slot: | 012 | | | | |
| Screen Top Depth: | | | | | |
| Screen End Depth: | | | | | |
| Screen Material: | | | | | |
| Screen Depth UOM: | ft | | | | |
| Screen Diameter UOM: | inch | | | | |
| Screen Diameter: | | | | | |
| <u>Results of Well Yield Testing</u> | | | | | |
| Pump Test ID: | 994905813 | | | | |
| Pump Set At: | | | | | |
| Static Level: | 20 | | | | |
| Final Level After Pumping: | 52 | | | | |
| Recommended Pump Depth: | 45 | | | | |
| Pumping Rate: | 3 | | | | |
| Flowing Rate: | | | | | |
| Recommended Pump Rate: | 3 | | | | |
| Levels UOM: | ft | | | | |
| Rate UOM: | GPM | | | | |
| Water State After Test Code: | 1 | | | | |
| Water State After Test: | CLEAR | | | | |
| Pumping Test Method: | 2 | | | | |
| Pumping Duration HR: | 4 | | | | |
| Pumping Duration MIN: | 0 | | | | |
| Flowing: | N | | | | |
| <u>Draw Down & Recovery</u> | | | | | |
| Pump Test Detail ID: | 935046791 | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--|-------------------|----------------------------|------------------|------------------------------|------|
| Test Type: | | | | | |
| Test Duration: | | 60 | | | |
| Test Level: | | 52 | | | |
| Test Level UOM: | | ft | | | |
| <u>Draw Down & Recovery</u> | | | | | |
| Pump Test Detail ID: | | 934261938 | | | |
| Test Type: | | | | | |
| Test Duration: | | 15 | | | |
| Test Level: | | 52 | | | |
| Test Level UOM: | | ft | | | |
| <u>Draw Down & Recovery</u> | | | | | |
| Pump Test Detail ID: | | 934781777 | | | |
| Test Type: | | | | | |
| Test Duration: | | 45 | | | |
| Test Level: | | 52 | | | |
| Test Level UOM: | | ft | | | |
| <u>Draw Down & Recovery</u> | | | | | |
| Pump Test Detail ID: | | 934527676 | | | |
| Test Type: | | | | | |
| Test Duration: | | 30 | | | |
| Test Level: | | 52 | | | |
| Test Level UOM: | | ft | | | |
| <u>Water Details</u> | | | | | |
| Water ID: | | 933793820 | | | |
| Layer: | | 1 | | | |
| Kind Code: | | 1 | | | |
| Kind: | | FRESH | | | |
| Water Found Depth: | | 32 | | | |
| Water Found Depth UOM: | | ft | | | |
| <u>Water Details</u> | | | | | |
| Water ID: | | 933793821 | | | |
| Layer: | | 2 | | | |
| Kind Code: | | 1 | | | |
| Kind: | | FRESH | | | |
| Water Found Depth: | | 62 | | | |
| Water Found Depth UOM: | | ft | | | |
| 41 | 1 of 1 | NW/194.2 | 208.5 / -0.37 | Brampton ON | WWIS |
| Well ID: | | 7166972 | | Data Entry Status: | |
| Construction Date: | | | | Data Src: | |
| Primary Water Use: | | Test Hole | | Date Received: | |
| Sec. Water Use: | | | | 8/9/2011 | |
| Final Well Status: | | Test Hole | | Selected Flag: | |
| Water Type: | | | | Yes | |
| Casing Material: | | | | Abandonment Rec: | |
| Audit No: | | Z133674 | | Contractor: | |
| Tag: | | A108057 | | 7215 | |
| Construction Method: | | | | Form Version: | |
| Elevation (m): | | | | 7 | |
| | | | | Owner: | |
| | | | | Street Name: | |
| | | | | 12 CADETTA RD | |
| | | | | County: | |
| | | | | PEEL | |
| | | | | Municipality: | |
| | | | | BRAMPTON CITY (TORONTO GORE) | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|---|-------------------|----------------------------|------------------|---|----|
| Elevation Reliability: Depth to Bedrock: Well Depth: Overburden/Bedrock: Pump Rate: Static Water Level: Flowing (Y/N): Flow Rate: Clear/Cloudy: | | | | Site Info: Lot: Concession: Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability: | |
| <u>Bore Hole Information</u> | | | | | |
| Bore Hole ID: 1003547278 DP2BR: Spatial Status: Code OB: Code OB Desc: Open Hole: Cluster Kind: Date Completed: 6/17/2011 Remarks: Elevrc Desc: Location Source Date: Improvement Location Source: Improvement Location Method: Source Revision Comment: Supplier Comment: | | | | Elevation: 208.752227 Elevrc: Zone: 17 East83: 606088 North83: 4852243 Org CS: UTM83 UTMRC: 3 UTMRC Desc: margin of error : 10 - 30 m Location Method: wwr | |
| <u>Overburden and Bedrock</u> | | | | | |
| <u>Materials Interval</u> | | | | | |
| Formation ID: 1003911568 Layer: 3 Color: 6 General Color: BROWN Mat1: 34 Most Common Material: TILL Mat2: Other Materials: Mat3: 68 Other Materials: DRY Formation Top Depth: 12 Formation End Depth: 18 Formation End Depth UOM: ft | | | | | |
| <u>Overburden and Bedrock</u> | | | | | |
| <u>Materials Interval</u> | | | | | |
| Formation ID: 1003911567 Layer: 2 Color: 6 General Color: BROWN Mat1: 28 Most Common Material: SAND Mat2: Other Materials: Mat3: 68 Other Materials: DRY Formation Top Depth: 8 Formation End Depth: 12 Formation End Depth UOM: ft | | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|---|--------------------------|------------------------------------|--------------------------|-------------|-----------|
| <u>Overburden and Bedrock Materials Interval</u> | | | | | |
| Formation ID: | | 1003911566 | | | |
| Layer: | | 1 | | | |
| Color: | | 6 | | | |
| General Color: | | BROWN | | | |
| Mat1: | | 01 | | | |
| Most Common Material: | | FILL | | | |
| Mat2: | | | | | |
| Other Materials: | | | | | |
| Mat3: | | | | | |
| Other Materials: | | | | | |
| Formation Top Depth: | | 0 | | | |
| Formation End Depth: | | 8 | | | |
| Formation End Depth UOM: | | ft | | | |
| <u>Annular Space/Abandonment Sealing Record</u> | | | | | |
| Plug ID: | | 1003911576 | | | |
| Layer: | | 2 | | | |
| Plug From: | | 11 | | | |
| Plug To: | | 1 | | | |
| Plug Depth UOM: | | ft | | | |
| <u>Annular Space/Abandonment Sealing Record</u> | | | | | |
| Plug ID: | | 1003911575 | | | |
| Layer: | | 1 | | | |
| Plug From: | | 18 | | | |
| Plug To: | | 11 | | | |
| Plug Depth UOM: | | ft | | | |
| <u>Annular Space/Abandonment Sealing Record</u> | | | | | |
| Plug ID: | | 1003911577 | | | |
| Layer: | | 3 | | | |
| Plug From: | | 1 | | | |
| Plug To: | | 0 | | | |
| Plug Depth UOM: | | ft | | | |
| <u>Method of Construction & Well Use</u> | | | | | |
| Method Construction ID: | | | | | |
| Method Construction Code: | | 2 | | | |
| Method Construction: | | Rotary (Convent.) | | | |
| Other Method Construction: | | | | | |
| <u>Pipe Information</u> | | | | | |
| Pipe ID: | | 1003911565 | | | |
| Casing No: | | 0 | | | |
| Comment: | | | | | |
| Alt Name: | | | | | |
| <u>Construction Record - Casing</u> | | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--|-------------------|----------------------------|------------------|------|----|
| Casing ID: 1003911571 | | | | | |
| Layer: 1 | | | | | |
| Material: 5 | | | | | |
| Open Hole or Material: PLASTIC | | | | | |
| Depth From: 13 | | | | | |
| Depth To: 1 | | | | | |
| Casing Diameter: 2 | | | | | |
| Casing Diameter UOM: inch | | | | | |
| Casing Depth UOM: ft | | | | | |
| <u>Construction Record - Screen</u> | | | | | |
| Screen ID: 1003911572 | | | | | |
| Layer: 1 | | | | | |
| Slot: 10 | | | | | |
| Screen Top Depth: 18 | | | | | |
| Screen End Depth: 13 | | | | | |
| Screen Material: 5 | | | | | |
| Screen Depth UOM: ft | | | | | |
| Screen Diameter UOM: inch | | | | | |
| Screen Diameter: 2 | | | | | |
| <u>Hole Diameter</u> | | | | | |
| Hole ID: 1003911569 | | | | | |
| Diameter: 8 | | | | | |
| Depth From: 0 | | | | | |
| Depth To: 18 | | | | | |
| Hole Depth UOM: ft | | | | | |
| Hole Diameter UOM: inch | | | | | |

| | | | | | |
|--------------------------|---|-----------|--------------|---|-------------|
| 42 | 1 of 9 | NNW/200.9 | 209.9 / 1.00 | Forest Contractors Ltd 8 Cadetta Road Brampton ON L6P 0X4 | GEN |
| Generator No: | ON4322559 | | | PO Box No: | |
| Status: | | | | Country: | Canada |
| Approval Years: | 2016 | | | Choice of Contact: | CO_OFFICIAL |
| Contam. Facility: | No | | | Co Admin: | |
| MHSW Facility: | No | | | Phone No Admin: | |
| SIC Code: | 238190 | | | | |
| SIC Description: | OTHER FOUNDATION, STRUCTURE AND BUILDING EXTERIOR CONTRACTORS | | | | |

Detail(s)

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

| | | | | | |
|--------------------------|---|-----------|--------------|---|-------------|
| 42 | 2 of 9 | NNW/200.9 | 209.9 / 1.00 | Forest Contractors Ltd 8 Cadetta Road Brampton ON L6P 0X4 | GEN |
| Generator No: | ON4322559 | | | PO Box No: | |
| Status: | | | | Country: | Canada |
| Approval Years: | 2014 | | | Choice of Contact: | CO_OFFICIAL |
| Contam. Facility: | No | | | Co Admin: | |
| MHSW Facility: | No | | | Phone No Admin: | |
| SIC Code: | 238190 | | | | |
| SIC Description: | OTHER FOUNDATION, STRUCTURE AND BUILDING EXTERIOR CONTRACTORS | | | | |

Detail(s)

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--------------------------|---|-------------------------------------|------------------|---|-------------|
| Waste Class: | | 252 | | | |
| Waste Class Desc: | | WASTE OILS & LUBRICANTS | | | |
| 42 | 3 of 9 | NNW/200.9 | 209.9 / 1.00 | Forest Contractors Ltd 8 Cadetta Road Brampton ON L6P 0X4 | GEN |
| Generator No: | ON4322559 | | | PO Box No: | |
| Status: | Registered | | | Country: | Canada |
| Approval Years: | As of Mar 2019 | | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | | | | | |
| SIC Description: | | | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | | 252 L | | | |
| Waste Class Desc: | | Waste crankcase oils and lubricants | | | |
| 42 | 4 of 9 | NNW/200.9 | 209.9 / 1.00 | Forest Contractors Ltd 8 Cadetta Road Brampton ON L6P 0X4 | GEN |
| Generator No: | ON4322559 | | | 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: | | | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | | 252 L | | | |
| Waste Class Desc: | | Waste crankcase oils and lubricants | | | |
| 42 | 5 of 9 | NNW/200.9 | 209.9 / 1.00 | Forest Contractors Ltd 8 Cadetta Road Brampton ON L6P 0X4 | GEN |
| Generator No: | ON4322559 | | | PO Box No: | |
| Status: | | | | Country: | Canada |
| Approval Years: | 2015 | | | Choice of Contact: | CO_OFFICIAL |
| Contam. Facility: | No | | | Co Admin: | |
| MHSW Facility: | No | | | Phone No Admin: | |
| SIC Code: | 238190 | | | | |
| SIC Description: | OTHER FOUNDATION, STRUCTURE AND BUILDING EXTERIOR CONTRACTORS | | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | | 252 | | | |
| Waste Class Desc: | | WASTE OILS & LUBRICANTS | | | |
| 42 | 6 of 9 | NNW/200.9 | 209.9 / 1.00 | Forest Contractors Ltd 8 Cadetta Road Brampton ON | GEN |
| Generator No: | ON4322559 | | | PO Box No: | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--|-------------------|--|------------------|---|------|
| Status: Approval Years: 2012 Contam. Facility: MHSW Facility: SIC Code: 238190 SIC Description: Other Foundation Structure and Building Exterior Contractors | | | | Country: Choice of Contact: Co Admin: Phone No Admin: | |
| 42 | 7 of 9 | NNW/200.9 | 209.9 / 1.00 | Forest Contractors Ltd 8 Cadetta Road Brampton ON | GEN |
| Generator No: ON4322559 Status: Approval Years: 2013 Contam. Facility: MHSW Facility: SIC Code: 238190 SIC Description: OTHER FOUNDATION, STRUCTURE AND BUILDING EXTERIOR CONTRACTORS | | | | PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin: | |
| Detail(s) | | | | | |
| Waste Class: 252 | | Waste Class Desc: WASTE OILS & LUBRICANTS | | | |
| 42 | 8 of 9 | NNW/200.9 | 209.9 / 1.00 | 8 Cadetta Road, Brampton ON | PINC |
| Incident ID: 2774542 Incident No: 618004 Type: FS-Pipeline Incident Status Code: Pipeline Damage Reason Est Fuel Occurrence Tp: Pipeline Strike Fuel Type: Natural Gas Tank Status: RC Established Task No: 3394400 Spills Action Centre: 8578-8J6SSF Method Details: E-mail Fuel Category: Natural Gas Date of Occurrence: 6/25/2011 0:00 Occurrence Start Date: 2011/06/29 Operation Type: Construction Site (including excavation) Pipeline Type: Main Distribution Pipeline Regulator Type: Service Regulator (up to 60 psi intake) Summary: 8 Cadetta Road, Brampton - 2" Pipeline Hit Reported By: Bill Reid - Enbridge Affiliation: Industry Stakeholder (Licensee/Registration/Certificate Holder, Facility Owner, etc.) Occurrence Desc: Damage Reason: Excavation practices not sufficient Notes: z | | Health Impact: No Environment Impact: No Property Damage: Yes Service Interrupt: Yes Enforce Policy: Yes Public Relation: No Pipeline System: Depth: Pipe Material: Plastic PSIG: 60 Attribute Category: FS-Perform P-line Inc Invest Regulator Location: Outside | | | |
| 42 | 9 of 9 | NNW/200.9 | 209.9 / 1.00 | Enbridge Gas Distribution Inc. 8 Cadetta Road <UNOFFICIAL> Brampton ON L6P 0X4 | SPL |
| Ref No: 8578-8J6SSF Site No: Incident Dt: 6/25/2011 Year: Incident Cause: Discharge or Emission to Air Incident Event: Contaminant Code: 35 | | | | Discharger Report: Material Group: Health/Env Conseq: Client Type: Sector Type: Pipeline Agency Involved: Nearest Watercourse: | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|---|-------------------|----------------------------|------------------|------|----|
| Contaminant Name: NATURAL GAS (METHANE) Contaminant Limit 1: Contam Limit Freq 1: Contaminant UN No 1: Environment Impact: Confirmed Nature of Impact: Air Pollution Receiving Medium: Receiving Env: MOE Response: Not MOE mandate Dt MOE Arvl on Scn: MOE Reported Dt: 6/25/2011 Dt Document Closed: 6/30/2011 Incident Reason: Negligence (Apparent) - Caused by lack of diligence Site Name: 8 Cadetta Road <UNOFFICIAL> Site County/District: Site Geo Ref Meth: Incident Summary: TSSA-FSB: 2" plastic strike, made safe Contaminant Qty: 0 other - see incident description | | | | | |
| Site Address: Site District Office: Site Postal Code: Site Region: Site Municipality: Brampton Site Lot: Site Conc: Northing: Easting: Site Geo Ref Accu: Site Map Datum: SAC Action Class: TSSA - Fuel Safety Branch Source Type: | | | | | |

| | | | | | |
|--|---------|-----------|--------------|--|-----|
| 43 | 1 of 21 | NNW/225.7 | 209.9 / 1.00 | Onsite Ready-Mix (2009) Corp. 10 Cadetta Road Brampton, Regional Municipality of Peel CITY OF BRAMPTON ON | EBR |
| EBR Registry No: 011-5316 Ministry Ref No: 1567-8LQMFC Notice Type: Instrument Decision Notice Stage: 803923189 Notice Date: December 28, 2012 Proposal Date: December 06, 2011 Decision Posted: Posted By: Company Name: Onsite Ready-Mix (2009) Corp. Off Instrument Name: Instrument Type: (EPA Part II.1-air) - Environmental Compliance Approval (project type: air) Proponent Name: Proponent Address: 1250 Bay Street, 3rd Floor Street, Toronto Ontario, Canada M5R 2B1 Site Address: Location Other: URL: Site Location Details: 10 Cadetta Road Brampton, Regional Municipality of Peel CITY OF BRAMPTON | | | | | |
| Year: 2011 Act 1: Act 2: Comment Period: Section: Site Location Map: | | | | | |

| | | | | | |
|--|---------|-----------|--------------|--|-----|
| 43 | 2 of 21 | NNW/225.7 | 209.9 / 1.00 | Bolton Ready Mix 10 Cadetta Rd Brampton ON M5R 2B1 | ECA |
| Approval No: 3514-8XERYE Approval Date: 2013-11-28 Status: Approved Record Type: ECA Link Source: IDS SWP Area Name: Toronto Approval Type: ECA-AIR Project Type: AIR Address: 10 Cadetta Rd Full Address: Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/1055-94XPWY-14.pdf | | | | | |
| MOE District: Halton-Peel City: Longitude: -79.68074 Latitude: 43.81644 Geometry X: Geometry Y: | | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--------------------------|---|----------------------------|------------------|---|-----|
| 43 | 3 of 21 | NNW/225.7 | 209.9 / 1.00 | 752054 Ontario Limited 10 Cadetta Rd Brampton ON M5R 2B1 | ECA |
| Approval No: | 3514-8XERYE | | | MOE District: Halton-Peel | |
| Approval Date: | 2012-12-20 | | | City: | |
| Status: | Amended | | | Longitude: -79.68074 | |
| Record Type: | ECA | | | Latitude: 43.81644 | |
| Link Source: | IDS | | | Geometry X: | |
| SWP Area Name: | Toronto | | | Geometry Y: | |
| Approval Type: | ECA-AIR | | | | |
| Project Type: | AIR | | | | |
| Address: | 10 Cadetta Rd | | | | |
| Full Address: | | | | | |
| Full PDF Link: | https://www.accessenvironment.ene.gov.on.ca/instruments/1567-8LQMFC-14.pdf | | | | |
| 43 | 4 of 21 | NNW/225.7 | 209.9 / 1.00 | Bolton Ready Mix 10 Cadetta Road Brampton City, Regional Municipality of Peel L6P 0X4 ON | ECA |
| Approval No: | 3514-8XERYE | | | MOE District: | |
| Approval Date: | 28-NOV-13 | | | City: Brampton City, Regional Municipality of Peel | |
| Status: | Approved | | | Longitude: | |
| Record Type: | | | | Latitude: | |
| Link Source: | | | | Geometry X: | |
| SWP Area Name: | | | | Geometry Y: | |
| Approval Type: | | | | | |
| Project Type: | Air/Noise | | | | |
| Address: | | | | | |
| Full Address: | 10 Cadetta Road | | | | |
| Full PDF Link: | | | | | |
| 43 | 5 of 21 | NNW/225.7 | 209.9 / 1.00 | 752054 Ontario Limited 10 Cadetta Rd Brampton ON L6P 0X4 | ECA |
| Approval No: | 3514-8XERYE | | | MOE District: | |
| Approval Date: | 12/20/2012 | | | City: Brampton | |
| Status: | Approved | | | Longitude: | |
| Record Type: | | | | Latitude: | |
| Link Source: | | | | Geometry X: | |
| SWP Area Name: | | | | Geometry Y: | |
| Approval Type: | | | | | |
| Project Type: | Air/Noise | | | | |
| Address: | | | | | |
| Full Address: | | | | | |
| Full PDF Link: | | | | | |
| 43 | 6 of 21 | NNW/225.7 | 209.9 / 1.00 | Onsite Ready-Mix Inc 10 Cadetta Road Brampton ON L6P 0X4 | GEN |
| Generator No: | ON7891244 | | | PO Box No: | |
| Status: | | | | Country: | |
| Approval Years: | 2009 | | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--|-------------------|----------------------------|------------------|---|-----|
| MHSW Facility: SIC Code: 327330 SIC Description: Concrete Pipe Brick and Block Manufacturing | | | | Phone No Admin: | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: 146 Waste Class Desc: OTHER SPECIFIED INORGANICS | | | | | |
| 43 | 7 of 21 | NNW/225.7 | 209.9 / 1.00 | ALTA CRANES LIMITED 10 CADETTA ROAD, R.R. #9 BRAMPTON ON L6T 3Z8 | GEN |
| Generator No: ON0987600 Status: Approval Years: 90,99,00,01 Contam. Facility: MHSW Facility: SIC Code: 3231 SIC Description: MOTOR VEHICLE IND. | | | | PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin: | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: 213 Waste Class Desc: PETROLEUM DISTILLATES | | | | | |
| 43 | 8 of 21 | NNW/225.7 | 209.9 / 1.00 | Onsite Ready-Mix Inc 10 Cadetta Road Brampton ON L6P 0X4 | GEN |
| Generator No: ON7891244 Status: Approval Years: 2011 Contam. Facility: MHSW Facility: SIC Code: 327330 SIC Description: Concrete Pipe Brick and Block Manufacturing | | | | PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin: | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: 252 Waste Class Desc: WASTE OILS & LUBRICANTS | | | | | |
| Waste Class: 146 Waste Class Desc: OTHER SPECIFIED INORGANICS | | | | | |
| 43 | 9 of 21 | NNW/225.7 | 209.9 / 1.00 | ALTA CRANES LIMITED 10 CADETTA ROAD, R.R. #9 BRAMPTON ON L6T 3Z8 | GEN |
| Generator No: ON0987600 Status: Approval Years: 88,89 Contam. Facility: MHSW Facility: SIC Code: 3231 SIC Description: MOTOR VEHICLE IND. | | | | PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin: | |
| <u>Detail(s)</u> | | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--------------------------|---|----------------------------|------------------|---|-------------|
| Waste Class: | | 213 | | | |
| Waste Class Desc: | | PETROLEUM DISTILLATES | | | |
| 43 | 10 of 21 | NNW/225.7 | 209.9 / 1.00 | Onsite Ready-Mix Inc 10 Cadetta Road Brampton ON L6P 0X4 | GEN |
| Generator No: | ON7891244 | | | PO Box No: | |
| Status: | | | | Country: | |
| Approval Years: | 2010 | | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | 327330 | | | | |
| SIC Description: | Concrete Pipe Brick and Block Manufacturing | | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | | 252 | | | |
| Waste Class Desc: | | WASTE OILS & LUBRICANTS | | | |
| Waste Class: | | 146 | | | |
| Waste Class Desc: | | OTHER SPECIFIED INORGANICS | | | |
| 43 | 11 of 21 | NNW/225.7 | 209.9 / 1.00 | ALTA CRANES LIMITED 02-216 10 CADETTA ROAD, R.R. #9 BRAMPTON ON L6T 3Z8 | GEN |
| Generator No: | ON0987600 | | | PO Box No: | |
| Status: | | | | Country: | |
| Approval Years: | 92,93,94,95,96,97,98 | | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | 9911 | | | | |
| SIC Description: | IND. MACH. RENTAL | | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | | 213 | | | |
| Waste Class Desc: | | PETROLEUM DISTILLATES | | | |
| 43 | 12 of 21 | NNW/225.7 | 209.9 / 1.00 | Magcrete Logistics 10 Cadetta Road Brampton ON L6P 0X4 | GEN |
| Generator No: | ON8841934 | | | PO Box No: | |
| Status: | | | | Country: | Canada |
| Approval Years: | 2015 | | | Choice of Contact: | CO_OFFICIAL |
| Contam. Facility: | No | | | Co Admin: | |
| MHSW Facility: | No | | | Phone No Admin: | |
| SIC Code: | 484110 | | | | |
| SIC Description: | GENERAL FREIGHT TRUCKING, LOCAL | | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | | 252 | | | |
| Waste Class Desc: | | WASTE OILS & LUBRICANTS | | | |
| 43 | 13 of 21 | NNW/225.7 | 209.9 / 1.00 | Magcrete Logistics 10 Cadetta Road Brampton ON L6P 0X4 | GEN |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--------------------------|-------------------------------------|----------------------------|------------------|--|-------------|
| Generator No: | ON8841934 | | | PO Box No: | |
| Status: | | | | Country: | Canada |
| Approval Years: | 2014 | | | Choice of Contact: | CO_OFFICIAL |
| Contam. Facility: | No | | | Co Admin: | |
| MHSW Facility: | No | | | Phone No Admin: | |
| SIC Code: | 484110 | | | | |
| SIC Description: | GENERAL FREIGHT TRUCKING, LOCAL | | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | 252 | | | | |
| Waste Class Desc: | WASTE OILS & LUBRICANTS | | | | |
| 43 | 14 of 21 | NNW/225.7 | 209.9 / 1.00 | ADVANCED FENCE AND WIRE 10 CADETTA ROAD BRAMPTON ON L6T 3Z8 | GEN |
| Generator No: | ON1974500 | | | PO Box No: | |
| Status: | | | | Country: | |
| Approval Years: | 96,97,98,99,00,01 | | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | 3059 | | | | |
| SIC Description: | OTHER WIRE PROD. | | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | 213 | | | | |
| Waste Class Desc: | PETROLEUM DISTILLATES | | | | |
| Waste Class: | 253 | | | | |
| Waste Class Desc: | EMULSIFIED OILS | | | | |
| 43 | 15 of 21 | NNW/225.7 | 209.9 / 1.00 | Magcrete Logistics 10 Cadetta Road Brampton ON L6P 0X4 | GEN |
| Generator No: | ON8841934 | | | PO Box No: | |
| Status: | Registered | | | Country: | Canada |
| Approval Years: | As of Dec 2017 | | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | | | | | |
| SIC Description: | | | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | 252 L | | | | |
| Waste Class Desc: | Waste crankcase oils and lubricants | | | | |
| 43 | 16 of 21 | NNW/225.7 | 209.9 / 1.00 | Magcrete Logistics 10 Cadetta Road Brampton ON L6P 0X4 | GEN |
| Generator No: | ON8841934 | | | PO Box No: | |
| Status: | | | | Country: | Canada |
| Approval Years: | 2016 | | | Choice of Contact: | CO_OFFICIAL |
| Contam. Facility: | No | | | Co Admin: | |
| MHSW Facility: | No | | | Phone No Admin: | |
| SIC Code: | 484110 | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|---------------------------|-------------------|---|------------------|--|-----|
| SIC Description: | | GENERAL FREIGHT TRUCKING, LOCAL | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | | 252 | | | |
| Waste Class Desc: | | WASTE OILS & LUBRICANTS | | | |
| 43 | 17 of 21 | NNW/225.7 | 209.9 / 1.00 | 1105976 ONTARIO LIMITED 10 CADETTA ROAD BRAMPTON ON L6T 3Z8 | GEN |
| Generator No: | | ON1974500 | | PO Box No: | |
| Status: | | | | Country: | |
| Approval Years: | | 95 | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | | 3059 | | | |
| SIC Description: | | OTHER WIRE PROD. | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | | 253 | | | |
| Waste Class Desc: | | EMULSIFIED OILS | | | |
| 43 | 18 of 21 | NNW/225.7 | 209.9 / 1.00 | Acculink Fence & Wire Inc. 10 Cadetta Rd Brampton ON L6P 0X4 | SCT |
| Established: | | | | | |
| Plant Size (ft²): | | | | | |
| Employment: | | | | | |
| <u>--Details--</u> | | | | | |
| Description: | | Other Fabricated Wire Product Manufacturing | | | |
| SIC/NAICS Code: | | 332619 | | | |
| Description: | | Other Specialty-Line Building Supplies Wholesaler-Distributors | | | |
| SIC/NAICS Code: | | 416390 | | | |
| Description: | | Other Ornamental and Architectural Metal Product Manufacturing | | | |
| SIC/NAICS Code: | | 332329 | | | |
| 43 | 19 of 21 | NNW/225.7 | 209.9 / 1.00 | Dura Fence Inc. 10 Cadetta Rd Brampton ON L6T 3Z8 | SCT |
| Established: | | | | | |
| Plant Size (ft²): | | | | | |
| Employment: | | 25 | | | |
| <u>--Details--</u> | | | | | |
| Description: | | Other Ornamental and Architectural Metal Products Manufacturing | | | |
| SIC/NAICS Code: | | 332329 | | | |
| Description: | | Other Fabricated Wire Product Manufacturing | | | |
| SIC/NAICS Code: | | 332619 | | | |
| Description: | | Other Specialty-Line Building Supplies Wholesaler-Distributors | | | |
| SIC/NAICS Code: | | 416390 | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|---|-------------------|----------------------------|------------------|---|-----|
| 43 | 20 of 21 | NNW/225.7 | 209.9 / 1.00 | Acculink Fence And Wire 10 Cadetta Rd Brampton ON L6T 3Z8 | SCT |
| Established: | | | | | |
| Plant Size (ft²): | | | | | |
| Employment: 25 | | | | | |
| --Details-- | | | | | |
| Description: Other Ornamental and Architectural Metal Products Manufacturing | | | | | |
| SIC/NAICS Code: 332329 | | | | | |
| Description: Other Fabricated Wire Product Manufacturing | | | | | |
| SIC/NAICS Code: 332619 | | | | | |
| Description: Other Specialty-Line Building Supplies Wholesaler-Distributors | | | | | |
| SIC/NAICS Code: 416390 | | | | | |
| 43 | 21 of 21 | NNW/225.7 | 209.9 / 1.00 | YORK FENCE COMPANY LTD. 10 Cadetta Rd Brampton ON L6T 3Z8 | SCT |
| Established: 1963 | | | | | |
| Plant Size (ft²): 0 | | | | | |
| Employment: 8 | | | | | |
| --Details-- | | | | | |
| Description: Other Ornamental and Architectural Metal Products Manufacturing | | | | | |
| SIC/NAICS Code: 332329 | | | | | |
| 44 | 1 of 6 | NW/227.0 | 208.6 / -0.23 | GREENSTAR CONSTRUCTION 12 CADETTA RD UNIT 8 BRAMPTON ON L6P0X4 | GEN |
| Generator No: ON3466416 | | | | | |
| Status: | | | | | |
| Approval Years: 2016 | | | | | |
| Contam. Facility: No | | | | | |
| MHSW Facility: No | | | | | |
| SIC Code: 236110, 236210 | | | | | |
| SIC Description: RESIDENTIAL BUILDING CONSTRUCTION, INDUSTRIAL BUILDING AND STRUCTURE CONSTRUCTION | | | | | |
| PO Box No: | | | | | |
| Country: Canada | | | | | |
| Choice of Contact: CO_OFFICIAL | | | | | |
| Co Admin: Tina Cerrone | | | | | |
| Phone No Admin: 905-794-0624 Ext.222 | | | | | |
| Detail(s) | | | | | |
| Waste Class: 252 | | | | | |
| Waste Class Desc: WASTE OILS & LUBRICANTS | | | | | |
| 44 | 2 of 6 | NW/227.0 | 208.6 / -0.23 | Terrapave Holdings Inc 12 Cadetta Rd Unit 1 Brampton ON L6P 0X4 | GEN |
| Generator No: ON2752676 | | | | | |
| Status: Registered | | | | | |
| Approval Years: As of Dec 2018 | | | | | |
| 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: Waste Class Desc: | | 252 L Waste crankcase oils and lubricants | | | |
| 44 | 3 of 6 | NW/227.0 | 208.6 / -0.23 | Terrapave Holdings Inc 12 Cadetta Rd Unit 1 Brampton ON L6P 0X4 | GEN |
| Generator No: Status: Approval Years: Contam. Facility: MHSW Facility: SIC Code: SIC Description: | | ON2752676 Registered As of Mar 2019 | | PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin: | |
| | | | | Canada | |
| Detail(s) | | | | | |
| Waste Class: Waste Class Desc: | | 252 L Waste crankcase oils and lubricants | | | |
| 44 | 4 of 6 | NW/227.0 | 208.6 / -0.23 | GREENSTAR CONSTRUCTION 12 CADETTA RD UNIT 8 BRAMPTON ON L6P0X4 | GEN |
| Generator No: Status: Approval Years: Contam. Facility: MHSW Facility: SIC Code: SIC Description: | | ON3466416 Registered As of Dec 2018 | | PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin: | |
| | | | | Canada | |
| Detail(s) | | | | | |
| Waste Class: Waste Class Desc: | | 252 L Waste crankcase oils and lubricants | | | |
| 44 | 5 of 6 | NW/227.0 | 208.6 / -0.23 | GREENSTAR CONSTRUCTION 12 CADETTA RD UNIT 8 BRAMPTON ON L6P0X4 | GEN |
| Generator No: Status: Approval Years: Contam. Facility: MHSW Facility: SIC Code: SIC Description: | | ON3466416 Registered As of Mar 2019 | | PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin: | |
| | | | | Canada | |
| Detail(s) | | | | | |
| Waste Class: Waste Class Desc: | | 252 L Waste crankcase oils and lubricants | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--------------------------|---|----------------------------|------------------|---|----------------------|
| 44 | 6 of 6 | NW/227.0 | 208.6 / -0.23 | GREENSTAR CONSTRUCTION 12 CADETTA RD UNIT 8 BRAMPTON ON L6P0X4 | GEN |
| Generator No: | ON3466416 | | | PO Box No: | |
| Status: | | | | Country: | Canada |
| Approval Years: | 2015 | | | Choice of Contact: | CO_OFFICIAL |
| Contam. Facility: | No | | | Co Admin: | Tina Cerrone |
| MHSW Facility: | No | | | Phone No Admin: | 905-794-0624 Ext.222 |
| SIC Code: | 236110, 236210 | | | | |
| SIC Description: | RESIDENTIAL BUILDING CONSTRUCTION, INDUSTRIAL BUILDING AND STRUCTURE CONSTRUCTION | | | | |
| Detail(s) | | | | | |
| Waste Class: | 252 | | | | |
| Waste Class Desc: | WASTE OILS & LUBRICANTS | | | | |
| 45 | 1 of 1 | NW/229.4 | 208.5 / -0.33 | Cedar Mills Welding 12 Cadetta Rd Suite 4 Brampton ON L6P 0X4 | SCT |
| Established: | 1988 | | | | |
| Plant Size (ft²): | | | | | |
| Employment: | | | | | |
| --Details-- | | | | | |
| Description: | Metal Tank (Heavy Gauge) Manufacturing | | | | |
| SIC/NAICS Code: | 332420 | | | | |
| Description: | All Other Miscellaneous Fabricated Metal Product Manufacturing | | | | |
| SIC/NAICS Code: | 332999 | | | | |
| 46 | 1 of 3 | WNW/235.0 | 207.9 / -1.00 | TIME AND PRECISION CO. LTD. 14 CADETTA ROAD BRAMPTON ON L6P 0X4 | GEN |
| Generator No: | ON1717700 | | | PO Box No: | |
| Status: | | | | Country: | |
| Approval Years: | 05 | | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | 332710 | | | | |
| SIC Description: | Machine Shops | | | | |
| Detail(s) | | | | | |
| Waste Class: | 252 | | | | |
| Waste Class Desc: | WASTE OILS & LUBRICANTS | | | | |
| Waste Class: | 253 | | | | |
| Waste Class Desc: | EMULSIFIED OILS | | | | |
| 46 | 2 of 3 | WNW/235.0 | 207.9 / -1.00 | TMT Freight Systems 14 Caldetta Road Brampton ON L6P 0X4 | GEN |
| Generator No: | ON6795398 | | | PO Box No: | |
| Status: | Registered | | | Country: | Canada |
| Approval Years: | As of Mar 2019 | | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--|-------------------|---|---------------|---|------|
| MHSW Facility: SIC Code: SIC Description: | | | | Phone No Admin: | |
| Detail(s) | | | | | |
| Waste Class: Waste Class Desc: | | 252 L Waste crankcase oils and lubricants | | | |
| 46 | 3 of 3 | WNW/235.0 | 207.9 / -1.00 | TIME AND PRECISION CO. LTD. 38-707 14 CADETTA ROAD BRAMPTON ON L6T 3Z8 | GEN |
| Generator No: ON1717700 Status: Approval Years: 93,94,95,96,97,98 Contam. Facility: MHSW Facility: SIC Code: 6599 SIC Description: OTHER RETAIL STORES | | PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin: | | | |
| Detail(s) | | | | | |
| Waste Class: Waste Class Desc: | | 252 WASTE OILS & LUBRICANTS | | | |
| 47 | 1 of 3 | NW/248.0 | 207.9 / -1.00 | 14 CADETTA ROAD BRAMPTON ON L6P 0X4 | HINC |
| External File Num: FS INC 0711-06942 Fuel Occurrence Type: Pipeline Strike Date of Occurrence: 10/27/2007 Fuel Type Involved: Natural Gas Status Desc: Completed - Causal Analysis(End) Job Type Desc: Incident/Near-Miss Occurrence (FS) Oper. Type Involved: Construction Site (pipeline strike) Service Interruptions: Yes Property Damage: No Fuel Life Cycle Stage: Transmission, Distribution and Transportation Root Cause: Root Cause: Equipment/Material/Component:No Procedures:No Maintenance:No Design:No Training:No Management:No Human Factors:Yes Reported Details: Fuel Category: Gaseous Fuel Occurrence Type: Incident Affiliation: Industry Stakeholder (Licensee/Registration/Certificate Holder, Facility Owner, etc.) County Name: Peel Approx. Quant. Rel: Nearby body of water: Enter Drainage Syst.: Approx. Quant. Unit: Environmental Impact: | | | | | |
| 47 | 2 of 3 | NW/248.0 | 207.9 / -1.00 | TIME & PRECISION CO. LTD. 14 CADETTA RD RR 9 BRAMPTON ON L6T 3Z8 | SCT |
| Established: 1974 Plant Size (ft²): 20000 Employment: 5 | | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|---------------------------------|-------------------|---|------------------|--|------|
| --Details-- | | | | | |
| Description: | | INDUSTRIAL AND COMMERCIAL MACHINERY AND EQUIPMENT, NOT ELSEWHERE CLASSIFIED | | | |
| SIC/NAICS Code: | | 3599 | | | |
| Description: | | Machine Shops | | | |
| SIC/NAICS Code: | | 332710 | | | |
| Description: | | All Other General-Purpose Machinery Manufacturing | | | |
| SIC/NAICS Code: | | 333990 | | | |
| 47 | 3 of 3 | NW/248.0 | 207.9 / -1.00 | D & D Tool & Machine Co. 14 Cadetta Rd Brampton ON L6P 0X4 | SCT |
| Established: | | 1974 | | | |
| Plant Size (ft²): | | 20000 | | | |
| Employment: | | | | | |
| --Details-- | | | | | |
| Description: | | Machine Shops | | | |
| SIC/NAICS Code: | | 332710 | | | |
| Description: | | All Other General-Purpose Machinery Manufacturing | | | |
| SIC/NAICS Code: | | 333990 | | | |
| 48 | 1 of 1 | NNW/261.7 | 212.5 / 3.59 | 10410 Coleraine Drive Brampton ON L6P 0V4 | EHS |
| Order No: | | 20070501001 | | Nearest Intersection: | |
| Status: | | C | | Municipality: | |
| Report Type: | | CAN - Complete Report | | Client Prov/State: | |
| Report Date: | | 5/9/2007 | | Search Radius (km): 0.25 | |
| Date Received: | | 5/1/2007 | | X: -79.679489 | |
| Previous Site Name: | | | | Y: 43.817821 | |
| Lot/Building Size: | | | | | |
| Additional Info Ordered: | | | | | |
| 49 | 1 of 22 | NNE/263.3 | 207.9 / -1.00 | 2278581 ONTARIO LIMITED 9701 HIGHWAY 50 WOODBIDGE ON L4H 2G4 | EASR |
| Approval No: | | R-004-9111056693 | | SWP Area Name: Toronto | |
| Status: | | REGISTERED | | MOE District: York-Durham | |
| Date: | | 2019-03-04 | | City: WOODBRIDGE | |
| Record Type: | | EASR | | Latitude: 43.81777778 | |
| Link Source: | | MOFA | | Longitude: -79.67611111 | |
| Project Type: | | Waste Management System | | Geometry X: | |
| Full Address: | | | | | |
| Approval Type: | | EASR-Waste Management System | | | |
| Full PDF Link: | | http://www.accessenvironment.ene.gov.on.ca/AEWeb/ae/ViewDocument.action?documentRefID=2131427 | | | |
| 49 | 2 of 22 | NNE/263.3 | 207.9 / -1.00 | 2563570 ONTARIO LTD. 9701 HIGHWAY 50 WOODBIDGE ON L4H 2G4 | EASR |
| Approval No: | | R-004-6110183703 | | SWP Area Name: Toronto | |
| Status: | | REGISTERED | | MOE District: York-Durham | |
| Date: | | 2017-07-14 | | City: WOODBRIDGE | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|---|-------------------|----------------------------|------------------|---|-----|
| Record Type: EASR Link Source: MOFA Project Type: Waste Management System Full Address: Approval Type: EASR-Waste Management System Full PDF Link: http://www.accessenvironment.ene.gov.on.ca/AEWeb/ae/ViewDocument.action?documentRefID=2039301 | | | | | |
| 49 | 3 of 22 | NNE/263.3 | 207.9 / -1.00 | 9701 Highway No. 50 Kleinburg ON | EHS |
| Order No: 20071206009 Status: C Report Type: CAN - Custom Report Report Date: 12/12/2007 Date Received: 12/6/2007 Previous Site Name: Lot/Building Size: Additional Info Ordered: | | | | | |
| Nearest Intersection: Major Mackenzie Drive Municipality: Client Prov/State: Search Radius (km): 0.45 X: -79.675172 Y: 43.816791 | | | | | |
| 49 | 4 of 22 | NNE/263.3 | 207.9 / -1.00 | jb express 9701 highway 50 woodbridge ON L4H2G4 | GEN |
| Generator No: ON3978882 Status: Approval Years: 2016 Contam. Facility: No MHSW Facility: No SIC Code: 484110 SIC Description: GENERAL FREIGHT TRUCKING, LOCAL | | | | | |
| PO Box No: Country: Canada Choice of Contact: CO_OFFICIAL Co Admin: Phone No Admin: | | | | | |
| Detail(s) | | | | | |
| Waste Class: 252 Waste Class Desc: WASTE OILS & LUBRICANTS | | | | | |
| 49 | 5 of 22 | NNE/263.3 | 207.9 / -1.00 | jb express 9701 highway 50 woodbridge ON L4H2G4 | GEN |
| Generator No: ON3978882 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: 252 L Waste Class Desc: Waste crankcase oils and lubricants | | | | | |
| 49 | 6 of 22 | NNE/263.3 | 207.9 / -1.00 | jb express 9701 highway 50 woodbridge ON L4H2G4 | GEN |
| Generator No: ON3978882 Status: | | | | | |
| PO Box No: Country: Canada | | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|---|----------------------------|--------------------------------|------------------|---|-------------|
| Approval Years: Contam. Facility: MHSW Facility: SIC Code: SIC Description: | 2015 No No 484110 | | | Choice of Contact: Co Admin: Phone No Admin: GENERAL FREIGHT TRUCKING, LOCAL | CO_OFFICIAL |
| <u>Detail(s)</u> | | | | | |
| Waste Class: Waste Class Desc: | | 252 WASTE OILS & LUBRICANTS | | | |

| | | | | | |
|---|---|---------------------------------------|---------------|--|-----|
| 49 | 7 of 22 | NNE/263.3 | 207.9 / -1.00 | CONSOLIDATED FASTFRATE INC. 9701 HIGHWAY 50 VAUGHAN ON L4H 2G4 | GEN |
| Generator No: Status: Approval Years: Contam. Facility: MHSW Facility: SIC Code: SIC Description: | ON0222701 2009 484122, 493110 | | | PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin: General Freight Trucking Long Distance Less Than Truck-Load, General Warehousing and Storage | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: Waste Class Desc: | | 145 PAINT/PIGMENT/COATING RESIDUES | | | |
| Waste Class: Waste Class Desc: | | 150 INERT INORGANIC WASTES | | | |
| Waste Class: Waste Class Desc: | | 146 OTHER SPECIFIED INORGANICS | | | |
| Waste Class: Waste Class Desc: | | 148 INORGANIC LABORATORY CHEMICALS | | | |
| Waste Class: Waste Class Desc: | | 211 AROMATIC SOLVENTS | | | |
| Waste Class: Waste Class Desc: | | 212 ALIPHATIC SOLVENTS | | | |
| Waste Class: Waste Class Desc: | | 213 PETROLEUM DISTILLATES | | | |
| Waste Class: Waste Class Desc: | | 221 LIGHT FUELS | | | |
| Waste Class: Waste Class Desc: | | 232 POLYMERIC RESINS | | | |
| Waste Class: Waste Class Desc: | | 242 HALOGENATED PESTICIDES | | | |
| Waste Class: Waste Class Desc: | | 251 OIL SKIMMINGS & SLUDGES | | | |
| Waste Class: Waste Class Desc: | | 252 WASTE OILS & LUBRICANTS | | | |
| Waste Class: Waste Class Desc: | | 263 ORGANIC LABORATORY CHEMICALS | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--------------------------|---------------------------------|----------------------------|------------------|--|-----|
| 49 | 8 of 22 | NNE/263.3 | 207.9 / -1.00 | CONSOLIDATED FASTFRATE INC. 9701 HIGHWAY 50 VAUGHAN ON | GEN |
| Generator No: | ON0222701 | | | PO Box No: | |
| Status: | | | | Country: | |
| Approval Years: | 2013 | | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | 484122, 493110 | | | | |
| SIC Description: | GENERAL WAREHOUSING AND STORAGE | | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | 213 | | | | |
| Waste Class Desc: | PETROLEUM DISTILLATES | | | | |
| Waste Class: | 145 | | | | |
| Waste Class Desc: | PAINT/PIGMENT/COATING RESIDUES | | | | |
| Waste Class: | 212 | | | | |
| Waste Class Desc: | ALIPHATIC SOLVENTS | | | | |
| Waste Class: | 263 | | | | |
| Waste Class Desc: | ORGANIC LABORATORY CHEMICALS | | | | |
| Waste Class: | 252 | | | | |
| Waste Class Desc: | WASTE OILS & LUBRICANTS | | | | |
| Waste Class: | 242 | | | | |
| Waste Class Desc: | HALOGENATED PESTICIDES | | | | |
| Waste Class: | 221 | | | | |
| Waste Class Desc: | LIGHT FUELS | | | | |
| Waste Class: | 150 | | | | |
| Waste Class Desc: | INERT INORGANIC WASTES | | | | |
| Waste Class: | 146 | | | | |
| Waste Class Desc: | OTHER SPECIFIED INORGANICS | | | | |
| Waste Class: | 148 | | | | |
| Waste Class Desc: | INORGANIC LABORATORY CHEMICALS | | | | |
| Waste Class: | 251 | | | | |
| Waste Class Desc: | OIL SKIMMINGS & SLUDGES | | | | |
| Waste Class: | 232 | | | | |
| Waste Class Desc: | POLYMERIC RESINS | | | | |
| Waste Class: | 211 | | | | |
| Waste Class Desc: | AROMATIC SOLVENTS | | | | |

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|--------------------------|-----------|-----------|---------------|--|-----|
| 49 | 9 of 22 | NNE/263.3 | 207.9 / -1.00 | CONSOLIDATED FASTFRATE INC. 9701 HIGHWAY 50 VAUGHAN ON L4H 2G4 | GEN |
| Generator No: | ON0222701 | | | PO Box No: | |
| Status: | | | | Country: | |
| Approval Years: | 2010 | | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--------------------------|--|----------------------------|------------------|------|----|
| SIC Code: | 484122, 493110 | | | | |
| SIC Description: | General Freight Trucking Long Distance Less Than Truck-Load, General Warehousing and Storage | | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | 148 | | | | |
| Waste Class Desc: | INORGANIC LABORATORY CHEMICALS | | | | |
| Waste Class: | 221 | | | | |
| Waste Class Desc: | LIGHT FUELS | | | | |
| Waste Class: | 150 | | | | |
| Waste Class Desc: | INERT INORGANIC WASTES | | | | |
| Waste Class: | 146 | | | | |
| Waste Class Desc: | OTHER SPECIFIED INORGANICS | | | | |
| Waste Class: | 252 | | | | |
| Waste Class Desc: | WASTE OILS & LUBRICANTS | | | | |
| Waste Class: | 251 | | | | |
| Waste Class Desc: | OIL SKIMMINGS & SLUDGES | | | | |
| Waste Class: | 211 | | | | |
| Waste Class Desc: | AROMATIC SOLVENTS | | | | |
| Waste Class: | 232 | | | | |
| Waste Class Desc: | POLYMERIC RESINS | | | | |
| Waste Class: | 212 | | | | |
| Waste Class Desc: | ALIPHATIC SOLVENTS | | | | |
| Waste Class: | 263 | | | | |
| Waste Class Desc: | ORGANIC LABORATORY CHEMICALS | | | | |
| Waste Class: | 145 | | | | |
| Waste Class Desc: | PAINT/PIGMENT/COATING RESIDUES | | | | |
| Waste Class: | 242 | | | | |
| Waste Class Desc: | HALOGENATED PESTICIDES | | | | |
| Waste Class: | 213 | | | | |
| Waste Class Desc: | PETROLEUM DISTILLATES | | | | |

[49](#) 10 of 22 **NNE/263.3** **207.9 / -1.00** **CONSOLIDATED FASTFRATE INC.**
9701 HIGHWAY 50
VAUGHAN ON L4H 2G4 **GEN**

| | | | |
|--------------------------|---|---------------------------|-------------|
| Generator No: | ON0222701 | PO Box No: | |
| Status: | | Country: | Canada |
| Approval Years: | 2015 | Choice of Contact: | CO_OFFICIAL |
| Contam. Facility: | No | Co Admin: | |
| MHSW Facility: | No | Phone No Admin: | |
| SIC Code: | 484122, 493110 | | |
| SIC Description: | 484122, GENERAL WAREHOUSING AND STORAGE | | |

Detail(s)

| | |
|--------------------------|------------------------------|
| Waste Class: | 263 |
| Waste Class Desc: | ORGANIC LABORATORY CHEMICALS |
| Waste Class: | 150 |
| Waste Class Desc: | INERT INORGANIC WASTES |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--------------------------|--------------------------|------------------------------------|--------------------------|-------------|-----------|
| Waste Class: | | 251 | | | |
| Waste Class Desc: | | OIL SKIMMINGS & SLUDGES | | | |
| Waste Class: | | 122 | | | |
| Waste Class Desc: | | ALKALINE WASTES - OTHER METALS | | | |
| Waste Class: | | 242 | | | |
| Waste Class Desc: | | HALOGENATED PESTICIDES | | | |
| Waste Class: | | 148 | | | |
| Waste Class Desc: | | INORGANIC LABORATORY CHEMICALS | | | |
| Waste Class: | | 232 | | | |
| Waste Class Desc: | | POLYMERIC RESINS | | | |
| Waste Class: | | 212 | | | |
| Waste Class Desc: | | ALIPHATIC SOLVENTS | | | |
| Waste Class: | | 252 | | | |
| Waste Class Desc: | | WASTE OILS & LUBRICANTS | | | |
| Waste Class: | | 213 | | | |
| Waste Class Desc: | | PETROLEUM DISTILLATES | | | |
| Waste Class: | | 145 | | | |
| Waste Class Desc: | | PAINT/PIGMENT/COATING RESIDUES | | | |
| Waste Class: | | 146 | | | |
| Waste Class Desc: | | OTHER SPECIFIED INORGANICS | | | |
| Waste Class: | | 221 | | | |
| Waste Class Desc: | | LIGHT FUELS | | | |
| Waste Class: | | 211 | | | |
| Waste Class Desc: | | AROMATIC SOLVENTS | | | |

| | | | | | |
|-----------|-----------------|------------------|----------------------|---|------------|
| 49 | 11 of 22 | NNE/263.3 | 207.9 / -1.00 | CONSOLIDATED FASTFRATE INC. 9701 HIGHWAY 50 VAUGHAN ON L4H 2G4 | GEN |
|-----------|-----------------|------------------|----------------------|---|------------|

| | | | |
|--------------------------|----------------------------|---------------------------|--|
| Generator No: | ON0222701 | PO Box No: | |
| Status: | | Country: | |
| Approval Years: | 00,01,02,03,04,05,06,07,08 | Choice of Contact: | |
| Contam. Facility: | | Co Admin: | |
| MHSW Facility: | | Phone No Admin: | |
| SIC Code: | 4561 | | |
| SIC Description: | GEN. FREIGHT TRUCK. | | |

Detail(s)

| | |
|--------------------------|--------------------------------|
| Waste Class: | 146 |
| Waste Class Desc: | OTHER SPECIFIED INORGANICS |
| Waste Class: | 150 |
| Waste Class Desc: | INERT INORGANIC WASTES |
| Waste Class: | 232 |
| Waste Class Desc: | POLYMERIC RESINS |
| Waste Class: | 145 |
| Waste Class Desc: | PAINT/PIGMENT/COATING RESIDUES |
| Waste Class: | 148 |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--------------------------|-------------------|--------------------------------|------------------|------|----|
| Waste Class Desc: | | INORGANIC LABORATORY CHEMICALS | | | |
| Waste Class: | | 211 | | | |
| Waste Class Desc: | | AROMATIC SOLVENTS | | | |
| Waste Class: | | 212 | | | |
| Waste Class Desc: | | ALIPHATIC SOLVENTS | | | |
| Waste Class: | | 213 | | | |
| Waste Class Desc: | | PETROLEUM DISTILLATES | | | |
| Waste Class: | | 221 | | | |
| Waste Class Desc: | | LIGHT FUELS | | | |
| Waste Class: | | 242 | | | |
| Waste Class Desc: | | HALOGENATED PESTICIDES | | | |
| Waste Class: | | 251 | | | |
| Waste Class Desc: | | OIL SKIMMINGS & SLUDGES | | | |
| Waste Class: | | 252 | | | |
| Waste Class Desc: | | WASTE OILS & LUBRICANTS | | | |
| Waste Class: | | 263 | | | |
| Waste Class Desc: | | ORGANIC LABORATORY CHEMICALS | | | |

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|--------------------------|---|-----------|---------------|--|-------------|
| 49 | 12 of 22 | NNE/263.3 | 207.9 / -1.00 | CONSOLIDATED FASTFRATE INC. 9701 HIGHWAY 50 VAUGHAN ON L4H 2G4 | GEN |
| Generator No: | ON0222701 | | | PO Box No: | |
| Status: | | | | Country: | Canada |
| Approval Years: | 2014 | | | Choice of Contact: | CO_OFFICIAL |
| Contam. Facility: | No | | | Co Admin: | |
| MHSW Facility: | No | | | Phone No Admin: | |
| SIC Code: | 484122, 493110 | | | | |
| SIC Description: | 484122, GENERAL WAREHOUSING AND STORAGE | | | | |

Detail(s)

| | |
|--------------------------|--------------------------------|
| Waste Class: | 150 |
| Waste Class Desc: | INERT INORGANIC WASTES |
| Waste Class: | 212 |
| Waste Class Desc: | ALIPHATIC SOLVENTS |
| Waste Class: | 146 |
| Waste Class Desc: | OTHER SPECIFIED INORGANICS |
| Waste Class: | 252 |
| Waste Class Desc: | WASTE OILS & LUBRICANTS |
| Waste Class: | 263 |
| Waste Class Desc: | ORGANIC LABORATORY CHEMICALS |
| Waste Class: | 232 |
| Waste Class Desc: | POLYMERIC RESINS |
| Waste Class: | 145 |
| Waste Class Desc: | PAINT/PIGMENT/COATING RESIDUES |
| Waste Class: | 242 |
| Waste Class Desc: | HALOGENATED PESTICIDES |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--------------------------|--------------------------|------------------------------------|--------------------------|-------------|-----------|
| Waste Class: | | 122 | | | |
| Waste Class Desc: | | ALKALINE WASTES - OTHER METALS | | | |
| Waste Class: | | 211 | | | |
| Waste Class Desc: | | AROMATIC SOLVENTS | | | |
| Waste Class: | | 221 | | | |
| Waste Class Desc: | | LIGHT FUELS | | | |
| Waste Class: | | 148 | | | |
| Waste Class Desc: | | INORGANIC LABORATORY CHEMICALS | | | |
| Waste Class: | | 251 | | | |
| Waste Class Desc: | | OIL SKIMMINGS & SLUDGES | | | |
| Waste Class: | | 213 | | | |
| Waste Class Desc: | | PETROLEUM DISTILLATES | | | |

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|--------------------------|--|------------------|----------------------|---|------------|
| 49 | 13 of 22 | NNE/263.3 | 207.9 / -1.00 | CONSOLIDATED FASTFRATE INC. 9701 HIGHWAY 50 VAUGHAN ON L4H 2G4 | GEN |
| Generator No: | ON0222701 | | | PO Box No: | |
| Status: | | | | Country: | |
| Approval Years: | 2012 | | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | 484122, 493110 | | | | |
| SIC Description: | General Freight Trucking Long Distance Less Than Truck-Load, General Warehousing and Storage | | | | |

Detail(s)

| | |
|--------------------------|--------------------------------|
| Waste Class: | 263 |
| Waste Class Desc: | ORGANIC LABORATORY CHEMICALS |
| Waste Class: | 150 |
| Waste Class Desc: | INERT INORGANIC WASTES |
| Waste Class: | 242 |
| Waste Class Desc: | HALOGENATED PESTICIDES |
| Waste Class: | 212 |
| Waste Class Desc: | ALIPHATIC SOLVENTS |
| Waste Class: | 146 |
| Waste Class Desc: | OTHER SPECIFIED INORGANICS |
| Waste Class: | 232 |
| Waste Class Desc: | POLYMERIC RESINS |
| Waste Class: | 221 |
| Waste Class Desc: | LIGHT FUELS |
| Waste Class: | 213 |
| Waste Class Desc: | PETROLEUM DISTILLATES |
| Waste Class: | 251 |
| Waste Class Desc: | OIL SKIMMINGS & SLUDGES |
| Waste Class: | 148 |
| Waste Class Desc: | INORGANIC LABORATORY CHEMICALS |
| Waste Class: | 252 |
| Waste Class Desc: | WASTE OILS & LUBRICANTS |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--------------------------|--|--------------------------------|------------------|--|-----|
| Waste Class: | | 145 | | | |
| Waste Class Desc: | | PAINT/PIGMENT/COATING RESIDUES | | | |
| Waste Class: | | 211 | | | |
| Waste Class Desc: | | AROMATIC SOLVENTS | | | |
| 49 | 14 of 22 | NNE/263.3 | 207.9 / -1.00 | CONSOLIDATED FASTFRATE INC. 9701 HIGHWAY 50 VAUGHAN ON L4H 2G4 | GEN |
| Generator No: | ON0222701 | | | PO Box No: | |
| Status: | | | | Country: | |
| Approval Years: | 2011 | | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | 484122, 493110 | | | | |
| SIC Description: | General Freight Trucking Long Distance Less Than Truck-Load, General Warehousing and Storage | | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | | 221 | | | |
| Waste Class Desc: | | LIGHT FUELS | | | |
| Waste Class: | | 213 | | | |
| Waste Class Desc: | | PETROLEUM DISTILLATES | | | |
| Waste Class: | | 232 | | | |
| Waste Class Desc: | | POLYMERIC RESINS | | | |
| Waste Class: | | 145 | | | |
| Waste Class Desc: | | PAINT/PIGMENT/COATING RESIDUES | | | |
| Waste Class: | | 242 | | | |
| Waste Class Desc: | | HALOGENATED PESTICIDES | | | |
| Waste Class: | | 211 | | | |
| Waste Class Desc: | | AROMATIC SOLVENTS | | | |
| Waste Class: | | 252 | | | |
| Waste Class Desc: | | WASTE OILS & LUBRICANTS | | | |
| Waste Class: | | 150 | | | |
| Waste Class Desc: | | INERT INORGANIC WASTES | | | |
| Waste Class: | | 251 | | | |
| Waste Class Desc: | | OIL SKIMMINGS & SLUDGES | | | |
| Waste Class: | | 148 | | | |
| Waste Class Desc: | | INORGANIC LABORATORY CHEMICALS | | | |
| Waste Class: | | 263 | | | |
| Waste Class Desc: | | ORGANIC LABORATORY CHEMICALS | | | |
| Waste Class: | | 146 | | | |
| Waste Class Desc: | | OTHER SPECIFIED INORGANICS | | | |
| Waste Class: | | 212 | | | |
| Waste Class Desc: | | ALIPHATIC SOLVENTS | | | |
| 49 | 15 of 22 | NNE/263.3 | 207.9 / -1.00 | CONSOLIDATED FASTFRATE INC. 9701 HIGHWAY 50 VAUGHAN ON L4H 2G4 | GEN |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--------------------------|--|--------------------------------|----------------------|---------------------------|-----------|
| Generator No: | ON0222701 | | | PO Box No: | |
| Status: | Registered | | | Country: | Canada |
| Approval Years: | As of Mar 2019 | | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | | | | | |
| SIC Description: | | | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | 242 A | | | | |
| Waste Class Desc: | Halogenated pesticides and herbicides | | | | |
| Waste Class: | 221 I | | | | |
| Waste Class Desc: | Light fuels | | | | |
| Waste Class: | 232 I | | | | |
| Waste Class Desc: | Polymeric resins | | | | |
| Waste Class: | 252 L | | | | |
| Waste Class Desc: | Waste crankcase oils and lubricants | | | | |
| Waste Class: | 145 I | | | | |
| Waste Class Desc: | Wastes from the use of pigments, coatings and paints | | | | |
| Waste Class: | 212 I | | | | |
| Waste Class Desc: | Aliphatic solvents and residues | | | | |
| Waste Class: | 148 C | | | | |
| Waste Class Desc: | Misc. wastes and inorganic chemicals | | | | |
| Waste Class: | 221 L | | | | |
| Waste Class Desc: | Light fuels | | | | |
| Waste Class: | 212 L | | | | |
| Waste Class Desc: | Aliphatic solvents and residues | | | | |
| Waste Class: | 242 B | | | | |
| Waste Class Desc: | Halogenated pesticides and herbicides | | | | |
| Waste Class: | 150 L | | | | |
| Waste Class Desc: | Inert organic wastes | | | | |
| Waste Class: | 251 L | | | | |
| Waste Class Desc: | Waste oils/sludges (petroleum based) | | | | |
| Waste Class: | 122 C | | | | |
| Waste Class Desc: | Alkaline slutions - containing other metals and non-metals (not cyanide) | | | | |
| Waste Class: | 213 T | | | | |
| Waste Class Desc: | Petroleum distillates | | | | |
| Waste Class: | 145 L | | | | |
| Waste Class Desc: | Wastes from the use of pigments, coatings and paints | | | | |
| Waste Class: | 232 L | | | | |
| Waste Class Desc: | Polymeric resins | | | | |
| Waste Class: | 213 I | | | | |
| Waste Class Desc: | Petroleum distillates | | | | |
| Waste Class: | 232 B | | | | |
| Waste Class Desc: | Polymeric resins | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--------------------------|--|-------------------------------|------------------|--|--------|
| Waste Class: | | 263 I | | | |
| Waste Class Desc: | | Misc. waste organic chemicals | | | |
| Waste Class: | | 253 L | | | |
| Waste Class Desc: | | Emulsified oils | | | |
| 49 | 16 of 22 | NNE/263.3 | 207.9 / -1.00 | jb express 9701 highway 50 woodbridge ON L4H2G4 | GEN |
| Generator No: | ON3978882 | | | PO Box No: | |
| Status: | Registered | | | Country: | Canada |
| Approval Years: | As of Mar 2019 | | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | | | | | |
| SIC Description: | | | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | 252 L | | | | |
| Waste Class Desc: | Waste crankcase oils and lubricants | | | | |
| 49 | 17 of 22 | NNE/263.3 | 207.9 / -1.00 | CONSOLIDATED FASTFRATE INC. 9701 HIGHWAY 50 VAUGHAN ON L4H 2G4 | GEN |
| Generator No: | ON0222701 | | | 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: | | | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | 122 C | | | | |
| Waste Class Desc: | Alkaline slutions - containing other metals and non-metals (not cyanide) | | | | |
| 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: | 150 L | | | | |
| Waste Class Desc: | Inert organic wastes | | | | |
| Waste Class: | 212 I | | | | |
| Waste Class Desc: | Aliphatic solvents and residues | | | | |
| Waste Class: | 212 L | | | | |
| Waste Class Desc: | Aliphatic solvents and residues | | | | |
| Waste Class: | 213 I | | | | |
| Waste Class Desc: | Petroleum distillates | | | | |
| Waste Class: | 213 T | | | | |
| Waste Class Desc: | Petroleum distillates | | | | |

| <i>Map Key</i> | <i>Number of Records</i> | <i>Direction/ Distance (m)</i> | <i>Elev/Diff (m)</i> | <i>Site</i> | <i>DB</i> |
|--------------------------|--------------------------|---------------------------------------|----------------------|-------------|-----------|
| Waste Class: | | 221 I | | | |
| Waste Class Desc: | | Light fuels | | | |
| Waste Class: | | 221 L | | | |
| Waste Class Desc: | | Light fuels | | | |
| Waste Class: | | 232 B | | | |
| Waste Class Desc: | | Polymeric resins | | | |
| Waste Class: | | 232 I | | | |
| Waste Class Desc: | | Polymeric resins | | | |
| Waste Class: | | 232 L | | | |
| Waste Class Desc: | | Polymeric resins | | | |
| Waste Class: | | 242 A | | | |
| Waste Class Desc: | | Halogenated pesticides and herbicides | | | |
| Waste Class: | | 242 B | | | |
| Waste Class Desc: | | Halogenated pesticides and herbicides | | | |
| Waste Class: | | 251 L | | | |
| Waste Class Desc: | | Waste oils/sludges (petroleum based) | | | |
| Waste Class: | | 252 L | | | |
| Waste Class Desc: | | Waste crankcase oils and lubricants | | | |
| Waste Class: | | 253 L | | | |
| Waste Class Desc: | | Emulsified oils | | | |
| Waste Class: | | 263 I | | | |
| Waste Class Desc: | | Misc. waste organic chemicals | | | |

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|--------------------------|---|------------------|----------------------|---|-------------|
| 49 | 18 of 22 | NNE/263.3 | 207.9 / -1.00 | CONSOLIDATED FASTFRATE INC. 9701 HIGHWAY 50 VAUGHAN ON L4H 2G4 | GEN |
| Generator No: | ON0222701 | | | PO Box No: | |
| Status: | | | | Country: | Canada |
| Approval Years: | 2016 | | | Choice of Contact: | CO_OFFICIAL |
| Contam. Facility: | No | | | Co Admin: | |
| MHSW Facility: | No | | | Phone No Admin: | |
| SIC Code: | 484122, 493110 | | | | |
| SIC Description: | 484122, GENERAL WAREHOUSING AND STORAGE | | | | |

Detail(s)

| | |
|--------------------------|--------------------------------|
| Waste Class: | 146 |
| Waste Class Desc: | OTHER SPECIFIED INORGANICS |
| Waste Class: | 212 |
| Waste Class Desc: | ALIPHATIC SOLVENTS |
| Waste Class: | 252 |
| Waste Class Desc: | WASTE OILS & LUBRICANTS |
| Waste Class: | 145 |
| Waste Class Desc: | PAINT/PIGMENT/COATING RESIDUES |
| Waste Class: | 251 |
| Waste Class Desc: | OIL SKIMMINGS & SLUDGES |
| Waste Class: | 213 |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--------------------------|-------------------|--------------------------------|------------------|------|----|
| Waste Class Desc: | | PETROLEUM DISTILLATES | | | |
| Waste Class: | | 150 | | | |
| Waste Class Desc: | | INERT INORGANIC WASTES | | | |
| Waste Class: | | 232 | | | |
| Waste Class Desc: | | POLYMERIC RESINS | | | |
| Waste Class: | | 221 | | | |
| Waste Class Desc: | | LIGHT FUELS | | | |
| Waste Class: | | 148 | | | |
| Waste Class Desc: | | INORGANIC LABORATORY CHEMICALS | | | |
| Waste Class: | | 211 | | | |
| Waste Class Desc: | | AROMATIC SOLVENTS | | | |
| Waste Class: | | 122 | | | |
| Waste Class Desc: | | ALKALINE WASTES - OTHER METALS | | | |
| Waste Class: | | 242 | | | |
| Waste Class Desc: | | HALOGENATED PESTICIDES | | | |
| Waste Class: | | 263 | | | |
| Waste Class Desc: | | ORGANIC LABORATORY CHEMICALS | | | |

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|------------------------------|---|-----------|---------------|--|-----------------|
| 49 | 19 of 22 | NNE/263.3 | 207.9 / -1.00 | Consolidated Fastrate (Ontario) Holdings Inc. 9701 Highway 50 CONSOLIDATED FASTFRATE INC. Vaughan ON | SPL |
| Ref No: | 0022-6QCNNB | | | Discharger Report: | |
| Site No: | | | | Material Group: | Oils |
| Incident Dt: | 6/1/2006 | | | Health/Env Conseq: | |
| Year: | | | | Client Type: | |
| Incident Cause: | Other Discharges | | | Sector Type: | Transport Truck |
| Incident Event: | | | | Agency Involved: | |
| Contaminant Code: | 13 | | | Nearest Watercourse: | |
| Contaminant Name: | DIESEL FUEL | | | Site Address: | 9701 HIGHWAY 50 |
| Contaminant Limit 1: | | | | Site District Office: | York-Durham |
| Contam Limit Freq 1: | | | | Site Postal Code: | |
| Contaminant UN No 1: | | | | Site Region: | |
| Environment Impact: | Possible | | | Site Municipality: | Vaughan |
| Nature of Impact: | Soil Contamination; Surface Water Pollution | | | Site Lot: | |
| Receiving Medium: | Land & Water | | | Site Conc: | |
| Receiving Env: | | | | Northing: | NA |
| MOE Response: | | | | Easting: | NA |
| Dt MOE Arvl on Scn: | | | | Site Geo Ref Accu: | |
| MOE Reported Dt: | 6/1/2006 | | | Site Map Datum: | |
| Dt Document Closed: | | | | SAC Action Class: | |
| Incident Reason: | | | | Source Type: | |
| Site Name: | 9701 HIGHWAY 50 | | | | |
| Site County/District: | | | | | |
| Site Geo Ref Meth: | | | | | |
| Incident Summary: | Consolidated Fastrate,ukn vol diesel to settling pond | | | | |
| Contaminant Qty: | 76 L | | | | |

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|---------------------|-------------|-----------|---------------|---|-----|
| 49 | 20 of 22 | NNE/263.3 | 207.9 / -1.00 | 9701 Highway 50 in Woodbridge<UNOFFICIAL> Vaughan ON | SPL |
| Ref No: | 5061-8N6VZE | | | Discharger Report: | |
| Site No: | | | | Material Group: | |
| Incident Dt: | 10/31/2011 | | | Health/Env Conseq: | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--|-------------------|----------------------------|------------------|---|----|
| Year: Incident Cause: Incident Event: Contaminant Code: 27 Contaminant Name: FLAMMABLE LIQUIDS, N.O.S. Contaminant Limit 1: Contam Limit Freq 1: Contaminant UN No 1: Environment Impact: Not Anticipated Nature of Impact: Receiving Medium: Receiving Env: MOE Response: Dt MOE Arvl on Scn: MOE Reported Dt: 10/31/2011 Dt Document Closed: Incident Reason: Site Name: 9701 Highway 50 in Woodbridge<UNOFFICIAL> Site County/District: Site Geo Ref Meth: Incident Summary: Lorama Inc-Ukn Qty UN 1866 to Ground from Leaking Tote Contaminant Qty: | | | | Client Type: Sector Type: Agency Involved: Nearest Watercourse: Site Address: Site District Office: Site Postal Code: Site Region: Site Municipality: Vaughan Site Lot: Site Conc: Northing: Easting: Site Geo Ref Accu: Site Map Datum: SAC Action Class: Land Spills Source Type: | |

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|---|----------|-----------|---------------|--|-----|
| 49 | 21 of 22 | NNE/263.3 | 207.9 / -1.00 | Consolidated Fastfrate (Ontario) Holdings Inc. 9701 Highway 50 Vaughan ON | SPL |
| Ref No: 7355-5TFR59 Site No: Incident Dt: 11/18/2003 Year: Incident Cause: Other Transport Accident Incident Event: Contaminant Code: 27 Contaminant Name: PHENOLIC RESINS Contaminant Limit 1: Contam Limit Freq 1: Contaminant UN No 1: Environment Impact: Possible Nature of Impact: Soil Contamination; Surface Water Pollution Receiving Medium: Land & Water Receiving Env: MOE Response: Dt MOE Arvl on Scn: MOE Reported Dt: 11/19/2003 Dt Document Closed: Incident Reason: Damage By Moving Equipment - Containers damaged by moving Site Name: CONSOLIDATED FASTFRATE INC. Site County/District: Site Geo Ref Meth: Incident Summary: Consolidated Fastfrate: 225L Phenolic Resin to grd Contaminant Qty: 225 L | | | | Discharger Report: Material Group: Chemical Health/Env Conseq: Client Type: Sector Type: Transport Truck Agency Involved: Nearest Watercourse: Site Address: Site District Office: York-Durham Site Postal Code: Site Region: Central Site Municipality: Vaughan Site Lot: Site Conc: Northing: NA Easting: NA Site Geo Ref Accu: Site Map Datum: SAC Action Class: Spills Source Type: | |

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|---|----------|-----------|---------------|---|-----|
| 49 | 22 of 22 | NNE/263.3 | 207.9 / -1.00 | Consolidated Fastfrate (Ontario) Holdings Inc. 9701 Highway 50 CONSOLIDATED FASTFRATE INC. Vaughan ON | SPL |
| Ref No: 5012-6NCH6X Site No: Incident Dt: 3/29/2006 | | | | Discharger Report: Material Group: Chemicals Health/Env Conseq: | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|---|-------------------|--|------------------|------|----|
| Year: Incident Cause: Pipe Or Hose Leak Incident Event: Contaminant Code: 24 Contaminant Name: VARSOL Contaminant Limit 1: Contam Limit Freq 1: Contaminant UN No 1: Environment Impact: Not Anticipated Nature of Impact: Human Health/Safety; Multi-Media Pollution Receiving Medium: Land Receiving Env: MOE Response: Dt MOE Arvl on Scn: MOE Reported Dt: 3/29/2006 Dt Document Closed: Incident Reason: Equipment Failure - Malfunction of system components Site Name: 9701 HIGHWAY 50 Site County/District: Site Geo Ref Meth: Incident Summary: Consolidated Fastrate:@25 L varsol to floor, no CB impacted Contaminant Qty: 25 L | | Client Type: Sector Type: Other Agency Involved: Nearest Watercourse: Site Address: 9701 HIGHWAY 50 Site District Office: York-Durham Site Postal Code: Site Region: Site Municipality: Vaughan Site Lot: Site Conc: Northing: NA Easting: NA Site Geo Ref Accu: Site Map Datum: SAC Action Class: Source Type: | | | |

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|--|---------|---|---------------|--|-----|
| 50 | 1 of 14 | ESE/265.1 | 205.3 / -3.54 | S.L.H. TRANSPORT INC. 9601 HWY 50 VAUGHAN ON | GEN |
| Generator No: ON1533301 Status: Approval Years: 2011 Contam. Facility: MHSW Facility: SIC Code: 484121, 488490 SIC Description: General Freight Trucking Long Distance Truck-Load, Other Support Activities for Road Transportation | | PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin: | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: 213 | | | | | |
| Waste Class Desc: PETROLEUM DISTILLATES | | | | | |
| Waste Class: 212 | | | | | |
| Waste Class Desc: ALIPHATIC SOLVENTS | | | | | |
| Waste Class: 251 | | | | | |
| Waste Class Desc: OIL SKIMMINGS & SLUDGES | | | | | |
| Waste Class: 252 | | | | | |
| Waste Class Desc: WASTE OILS & LUBRICANTS | | | | | |

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|--|---------|---|---------------|--|-----|
| 50 | 2 of 14 | ESE/265.1 | 205.3 / -3.54 | S.L.H. TRANSPORT INC. 9601 HWY 50 VAUGHAN ON | GEN |
| Generator No: ON1533301 Status: Approval Years: 2010 Contam. Facility: MHSW Facility: SIC Code: 484121, 488490 SIC Description: General Freight Trucking Long Distance Truck-Load, Other Support Activities for Road Transportation | | PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin: | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--------------------------|-------------------|----------------------------|------------------|------|----|
| <u>Detail(s)</u> | | | | | |
| Waste Class: | | 213 | | | |
| Waste Class Desc: | | PETROLEUM DISTILLATES | | | |
| Waste Class: | | 251 | | | |
| Waste Class Desc: | | OIL SKIMMINGS & SLUDGES | | | |
| Waste Class: | | 252 | | | |
| Waste Class Desc: | | WASTE OILS & LUBRICANTS | | | |
| Waste Class: | | 212 | | | |
| Waste Class Desc: | | ALIPHATIC SOLVENTS | | | |

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|--------------------------|----------------|------------------|----------------------|---|------------|
| <u>50</u> | 3 of 14 | ESE/265.1 | 205.3 / -3.54 | Train Trailer Rentals Ltd. 9601 Highway 50 VAUGHAN ON L4H2B9 | GEN |
| Generator No: | ON8325872 | | | PO Box No: | |
| Status: | Registered | | | Country: | Canada |
| Approval Years: | As of Mar 2019 | | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | | | | | |
| SIC Description: | | | | | |

| | | | | | |
|--------------------------|--|--|--|--|--|
| <u>Detail(s)</u> | | | | | |
| Waste Class: | | 251 L | | | |
| Waste Class Desc: | | Waste oils/sludges (petroleum based) | | | |
| Waste Class: | | 213 T | | | |
| Waste Class Desc: | | Petroleum distillates | | | |
| Waste Class: | | 232 L | | | |
| Waste Class Desc: | | Polymeric resins | | | |
| Waste Class: | | 331 I | | | |
| Waste Class Desc: | | Waste compressed gases including cylinders | | | |
| Waste Class: | | 252 L | | | |
| Waste Class Desc: | | Waste crankcase oils and lubricants | | | |

| | | | | | |
|--------------------------|----------------|------------------|----------------------|---|------------|
| <u>50</u> | 4 of 14 | ESE/265.1 | 205.3 / -3.54 | Train Trailer Rentals Ltd. 9601 Highway 50 VAUGHAN ON L4H2B9 | GEN |
| Generator No: | ON8325872 | | | 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: | | | | | |

| | | | | | |
|--------------------------|--|-----------------------|--|--|--|
| <u>Detail(s)</u> | | | | | |
| Waste Class: | | 213 T | | | |
| Waste Class Desc: | | Petroleum distillates | | | |
| Waste Class: | | 232 L | | | |
| Waste Class Desc: | | Polymeric resins | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--------------------------|-------------------|--|------------------|------|----|
| Waste Class: | | 251 L | | | |
| Waste Class Desc: | | Waste oils/sludges (petroleum based) | | | |
| Waste Class: | | 252 L | | | |
| Waste Class Desc: | | Waste crankcase oils and lubricants | | | |
| Waste Class: | | 331 I | | | |
| Waste Class Desc: | | Waste compressed gases including cylinders | | | |

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|--------------------------|---|-----------|---------------|---|-------------------|
| 50 | 5 of 14 | ESE/265.1 | 205.3 / -3.54 | S.L.H. TRANSPORT INC. 9601 HWY 50 VAUGHAN ON L4H2B9 | GEN |
| Generator No: | ON1533301 | | | PO Box No: | |
| Status: | | | | Country: | Canada |
| Approval Years: | 2014 | | | Choice of Contact: | CO_OFFICIAL |
| Contam. Facility: | No | | | Co Admin: | CATHY LEDINGHAM |
| MHSW Facility: | No | | | Phone No Admin: | 905-893-4318 Ext. |
| SIC Code: | 484121, 488490 | | | | |
| SIC Description: | GENERAL FREIGHT TRUCKING, LONG DISTANCE, TRUCK-LOAD, OTHER SUPPORT ACTIVITIES FOR ROAD TRANSPORTATION | | | | |
| Detail(s) | | | | | |
| Waste Class: | 212 | | | | |
| Waste Class Desc: | ALIPHATIC SOLVENTS | | | | |
| Waste Class: | 251 | | | | |
| Waste Class Desc: | OIL SKIMMINGS & SLUDGES | | | | |
| Waste Class: | 213 | | | | |
| Waste Class Desc: | PETROLEUM DISTILLATES | | | | |
| Waste Class: | 252 | | | | |
| Waste Class Desc: | WASTE OILS & LUBRICANTS | | | | |

| | | | | | |
|--------------------------|--------------------------------------|-----------|---------------|---|--------|
| 50 | 6 of 14 | ESE/265.1 | 205.3 / -3.54 | S.L.H. TRANSPORT INC. 9601 HWY 50 VAUGHAN ON L4H2B9 | GEN |
| Generator No: | ON1533301 | | | 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: | 212 L | | | | |
| Waste Class Desc: | Aliphatic solvents and residues | | | | |
| Waste Class: | 213 I | | | | |
| Waste Class Desc: | Petroleum distillates | | | | |
| Waste Class: | 213 T | | | | |
| Waste Class Desc: | Petroleum distillates | | | | |
| Waste Class: | 251 L | | | | |
| Waste Class Desc: | Waste oils/sludges (petroleum based) | | | | |
| Waste Class: | 252 L | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--------------------------|---|-------------------------------------|------------------|---|-------------------|
| Waste Class Desc: | | Waste crankcase oils and lubricants | | | |
| Waste Class: | | 252 T | | | |
| Waste Class Desc: | | Waste crankcase oils and lubricants | | | |
| 50 | 7 of 14 | ESE/265.1 | 205.3 / -3.54 | S.L.H. TRANSPORT INC. 9601 HWY 50 VAUGHAN ON L4H2B9 | GEN |
| Generator No: | ON1533301 | | | PO Box No: | |
| Status: | | | | Country: | Canada |
| Approval Years: | 2016 | | | Choice of Contact: | CO_OFFICIAL |
| Contam. Facility: | No | | | Co Admin: | CATHY LEDINGHAM |
| MHSW Facility: | No | | | Phone No Admin: | 905-893-4318 Ext. |
| SIC Code: | 484121, 488490 | | | | |
| SIC Description: | GENERAL FREIGHT TRUCKING, LONG DISTANCE, TRUCK-LOAD, OTHER SUPPORT ACTIVITIES FOR ROAD TRANSPORTATION | | | | |
| Detail(s) | | | | | |
| Waste Class: | | 212 | | | |
| Waste Class Desc: | | ALIPHATIC SOLVENTS | | | |
| Waste Class: | | 251 | | | |
| Waste Class Desc: | | OIL SKIMMINGS & SLUDGES | | | |
| Waste Class: | | 252 | | | |
| Waste Class Desc: | | WASTE OILS & LUBRICANTS | | | |
| Waste Class: | | 213 | | | |
| Waste Class Desc: | | PETROLEUM DISTILLATES | | | |
| 50 | 8 of 14 | ESE/265.1 | 205.3 / -3.54 | S.L.H. TRANSPORT INC. 9601 HWY. 50 VAUGHAN ON L4H 2B9 | GEN |
| Generator No: | ON1533301 | | | PO Box No: | |
| Status: | | | | Country: | |
| Approval Years: | 99 | | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | 3251 | | | | |
| SIC Description: | VEHICLE ENGINE IND. | | | | |
| 50 | 9 of 14 | ESE/265.1 | 205.3 / -3.54 | S.L.H. TRANSPORT INC. 9601 HWY 50 VAUGHAN ON L4H2B9 | GEN |
| Generator No: | ON1533301 | | | PO Box No: | |
| Status: | | | | Country: | |
| Approval Years: | 2012 | | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | 484121, 488490 | | | | |
| SIC Description: | General Freight Trucking Long Distance Truck-Load, Other Support Activities for Road Transportation | | | | |
| Detail(s) | | | | | |
| Waste Class: | | 213 | | | |
| Waste Class Desc: | | PETROLEUM DISTILLATES | | | |
| Waste Class: | | 251 | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--------------------------|---|----------------------------|------------------|--|-----|
| Waste Class Desc: | | OIL SKIMMINGS & SLUDGES | | | |
| Waste Class: | | 252 | | | |
| Waste Class Desc: | | WASTE OILS & LUBRICANTS | | | |
| Waste Class: | | 212 | | | |
| Waste Class Desc: | | ALIPHATIC SOLVENTS | | | |
| 50 | 10 of 14 | ESE/265.1 | 205.3 / -3.54 | S.L.H. TRANSPORT INC. 9601 HWY 50 VAUGHAN ON | GEN |
| Generator No: | ON1533301 | | | PO Box No: | |
| Status: | | | | Country: | |
| Approval Years: | 2013 | | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | 484121, 488490 | | | | |
| SIC Description: | GENERAL FREIGHT TRUCKING, LONG DISTANCE, TRUCK-LOAD, OTHER SUPPORT ACTIVITIES FOR ROAD TRANSPORTATION | | | | |
| Detail(s) | | | | | |
| Waste Class: | | 213 | | | |
| Waste Class Desc: | | PETROLEUM DISTILLATES | | | |
| Waste Class: | | 212 | | | |
| Waste Class Desc: | | ALIPHATIC SOLVENTS | | | |
| Waste Class: | | 252 | | | |
| Waste Class Desc: | | WASTE OILS & LUBRICANTS | | | |
| Waste Class: | | 251 | | | |
| Waste Class Desc: | | OIL SKIMMINGS & SLUDGES | | | |
| 50 | 11 of 14 | ESE/265.1 | 205.3 / -3.54 | S.L.H. TRANSPORT INC. 9601 HWY 50 VAUGHAN ON | GEN |
| Generator No: | ON1533301 | | | PO Box No: | |
| Status: | | | | Country: | |
| Approval Years: | 2009 | | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | 484121, 488490 | | | | |
| SIC Description: | General Freight Trucking Long Distance Truck-Load, Other Support Activities for Road Transportation | | | | |
| Detail(s) | | | | | |
| Waste Class: | | 212 | | | |
| Waste Class Desc: | | ALIPHATIC SOLVENTS | | | |
| Waste Class: | | 213 | | | |
| Waste Class Desc: | | PETROLEUM DISTILLATES | | | |
| Waste Class: | | 251 | | | |
| Waste Class Desc: | | OIL SKIMMINGS & SLUDGES | | | |
| Waste Class: | | 252 | | | |
| Waste Class Desc: | | WASTE OILS & LUBRICANTS | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--------------------------|---|----------------------------|------------------|---|-------------------|
| 50 | 12 of 14 | ESE/265.1 | 205.3 / -3.54 | S.L.H. TRANSPORT INC. 9601 HWY 50 VAUGHAN ON L4H2B9 | GEN |
| Generator No: | ON1533301 | | | PO Box No: | |
| Status: | | | | Country: | |
| Approval Years: | 02,03,04,05,06,07,08 | | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | | | | | |
| SIC Description: | | | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | 212 | | | | |
| Waste Class Desc: | ALIPHATIC SOLVENTS | | | | |
| Waste Class: | 213 | | | | |
| Waste Class Desc: | PETROLEUM DISTILLATES | | | | |
| Waste Class: | 251 | | | | |
| Waste Class Desc: | OIL SKIMMINGS & SLUDGES | | | | |
| Waste Class: | 252 | | | | |
| Waste Class Desc: | WASTE OILS & LUBRICANTS | | | | |
| 50 | 13 of 14 | ESE/265.1 | 205.3 / -3.54 | S.L.H. TRANSPORT INC. 9601 HWY 50 VAUGHAN ON L4H2B9 | GEN |
| Generator No: | ON1533301 | | | PO Box No: | |
| Status: | | | | Country: | Canada |
| Approval Years: | 2015 | | | Choice of Contact: | CO_OFFICIAL |
| Contam. Facility: | No | | | Co Admin: | CATHY LEDINGHAM |
| MHSW Facility: | No | | | Phone No Admin: | 905-893-4318 Ext. |
| SIC Code: | 484121, 488490 | | | | |
| SIC Description: | GENERAL FREIGHT TRUCKING, LONG DISTANCE, TRUCK-LOAD, OTHER SUPPORT ACTIVITIES FOR ROAD TRANSPORTATION | | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | 251 | | | | |
| Waste Class Desc: | OIL SKIMMINGS & SLUDGES | | | | |
| Waste Class: | 212 | | | | |
| Waste Class Desc: | ALIPHATIC SOLVENTS | | | | |
| Waste Class: | 213 | | | | |
| Waste Class Desc: | PETROLEUM DISTILLATES | | | | |
| Waste Class: | 252 | | | | |
| Waste Class Desc: | WASTE OILS & LUBRICANTS | | | | |
| 50 | 14 of 14 | ESE/265.1 | 205.3 / -3.54 | S.L.H. TRANSPORT INC. 9601 HWY #50 VAUGHAN ON L4H 2B9 | GEN |
| Generator No: | ON1533301 | | | PO Box No: | |
| Status: | | | | Country: | |
| Approval Years: | 00,01 | | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | 3251 | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--------------------------|-------------------|----------------------------|------------------|------|----|
| SIC Description: | | VEHICLE ENGINE IND. | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | | 213 | | | |
| Waste Class Desc: | | PETROLEUM DISTILLATES | | | |
| Waste Class: | | 251 | | | |
| Waste Class Desc: | | OIL SKIMMINGS & SLUDGES | | | |
| Waste Class: | | 252 | | | |
| Waste Class Desc: | | WASTE OILS & LUBRICANTS | | | |

| <u>51</u> | 1 of 1 | N/284.5 | 211.1 / 2.22 | BOLTON ON | WWIS |
|-------------------------------|--------------------------|---------|--------------|---------------------------|------------------------------|
| Well ID: | 7255951 | | | Data Entry Status: | |
| Construction Date: | | | | Data Src: | |
| Primary Water Use: | Monitoring and Test Hole | | | Date Received: | 1/14/2016 |
| Sec. Water Use: | 0 | | | Selected Flag: | Yes |
| Final Well Status: | Monitoring and Test Hole | | | Abandonment Rec: | |
| Water Type: | | | | Contractor: | 7247 |
| Casing Material: | | | | Form Version: | 7 |
| Audit No: | Z208472 | | | Owner: | |
| Tag: | A187664 | | | Street Name: | HWY 50 + COLERAINE RD. |
| Construction Method: | | | | County: | PEEL |
| Elevation (m): | | | | Municipality: | BRAMPTON CITY (TORONTO GORE) |
| 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: | | | | | |

Bore Hole Information

| | | | |
|-------------------------------------|------------|-------------------------|--------------------------------|
| Bore Hole ID: | 1005867324 | Elevation: | 209.83348 |
| DP2BR: | | Elevrc: | |
| Spatial Status: | | Zone: | 17 |
| Code OB: | | East83: | 606280 |
| Code OB Desc: | | North83: | 4852577 |
| Open Hole: | | Org CS: | UTM83 |
| Cluster Kind: | | UTMRC: | 4 |
| Date Completed: | 7/14/2015 | 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: | 1005934769 |
| Layer: | 1 |
| Color: | 6 |
| General Color: | BROWN |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|---|--------------------------|------------------------------------|--------------------------|-------------|-----------|
| Mat1: | | 28 | | | |
| Most Common Material: | | SAND | | | |
| Mat2: | | 11 | | | |
| Other Materials: | | GRAVEL | | | |
| Mat3: | | 01 | | | |
| Other Materials: | | FILL | | | |
| Formation Top Depth: | | 0 | | | |
| Formation End Depth: | | 1.5 | | | |
| Formation End Depth UOM: | | ft | | | |
| <u>Overburden and Bedrock Materials Interval</u> | | | | | |
| Formation ID: | | 1005934772 | | | |
| Layer: | | 4 | | | |
| Color: | | 2 | | | |
| General Color: | | GREY | | | |
| Mat1: | | 06 | | | |
| Most Common Material: | | SILT | | | |
| Mat2: | | 28 | | | |
| Other Materials: | | SAND | | | |
| Mat3: | | 05 | | | |
| Other Materials: | | CLAY | | | |
| Formation Top Depth: | | 26 | | | |
| Formation End Depth: | | 30 | | | |
| Formation End Depth UOM: | | ft | | | |
| <u>Overburden and Bedrock Materials Interval</u> | | | | | |
| Formation ID: | | 1005934770 | | | |
| Layer: | | 2 | | | |
| Color: | | 6 | | | |
| General Color: | | BROWN | | | |
| Mat1: | | 05 | | | |
| Most Common Material: | | CLAY | | | |
| Mat2: | | 84 | | | |
| Other Materials: | | SILTY | | | |
| Mat3: | | 81 | | | |
| Other Materials: | | SANDY | | | |
| Formation Top Depth: | | 1.5 | | | |
| Formation End Depth: | | 15 | | | |
| Formation End Depth UOM: | | ft | | | |
| <u>Overburden and Bedrock Materials Interval</u> | | | | | |
| Formation ID: | | 1005934771 | | | |
| Layer: | | 3 | | | |
| Color: | | 2 | | | |
| General Color: | | GREY | | | |
| Mat1: | | 05 | | | |
| Most Common Material: | | CLAY | | | |
| Mat2: | | 84 | | | |
| Other Materials: | | SILTY | | | |
| Mat3: | | 28 | | | |
| Other Materials: | | SAND | | | |
| Formation Top Depth: | | 15 | | | |
| Formation End Depth: | | 26 | | | |
| Formation End Depth UOM: | | ft | | | |
| <u>Annular Space/Abandonment</u> | | | | | |

| <i>Map Key</i> | <i>Number of Records</i> | <i>Direction/ Distance (m)</i> | <i>Elev/Diff (m)</i> | <i>Site</i> | <i>DB</i> |
|---|--------------------------|--------------------------------|----------------------|-------------|-----------|
| <u>Sealing Record</u> | | | | | |
| Plug ID: | | 1005934780 | | | |
| Layer: | | 1 | | | |
| Plug From: | | 0 | | | |
| Plug To: | | 19 | | | |
| Plug Depth UOM: | | ft | | | |
| <u>Method of Construction & Well Use</u> | | | | | |
| Method Construction ID: | | | | | |
| Method Construction Code: | | 2 | | | |
| Method Construction: | | Rotary (Convent.) | | | |
| Other Method Construction: | | | | | |
| <u>Pipe Information</u> | | | | | |
| Pipe ID: | | 1005934768 | | | |
| Casing No: | | 0 | | | |
| Comment: | | | | | |
| Alt Name: | | | | | |
| <u>Construction Record - Casing</u> | | | | | |
| Casing ID: | | 1005934775 | | | |
| Layer: | | 1 | | | |
| Material: | | 5 | | | |
| Open Hole or Material: | | PLASTIC | | | |
| Depth From: | | 0 | | | |
| Depth To: | | 20 | | | |
| Casing Diameter: | | 2 | | | |
| Casing Diameter UOM: | | inch | | | |
| Casing Depth UOM: | | ft | | | |
| <u>Construction Record - Screen</u> | | | | | |
| Screen ID: | | 1005934776 | | | |
| Layer: | | 1 | | | |
| Slot: | | 10 | | | |
| Screen Top Depth: | | 20 | | | |
| Screen End Depth: | | 30 | | | |
| Screen Material: | | 5 | | | |
| Screen Depth UOM: | | ft | | | |
| Screen Diameter UOM: | | inch | | | |
| Screen Diameter: | | 2.125 | | | |
| <u>Water Details</u> | | | | | |
| Water ID: | | 1005934774 | | | |
| Layer: | | 1 | | | |
| Kind Code: | | 8 | | | |
| Kind: | | Untested | | | |
| Water Found Depth: | | 27.5 | | | |
| Water Found Depth UOM: | | ft | | | |
| <u>Hole Diameter</u> | | | | | |
| Hole ID: | | 1005934773 | | | |
| Diameter: | | 6 | | | |
| Depth From: | | 0 | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--------------------|-------------------|----------------------------|------------------|------|----|
| Depth To: | | 30 | | | |
| Hole Depth UOM: | | ft | | | |
| Hole Diameter UOM: | | inch | | | |

| | | | | | |
|-------------------------------|-----------------|---------|--------------|---------------------------|---------------------------------------|
| 52 | 1 of 1 | N/287.9 | 211.5 / 2.67 | Brampton ON | WWIS |
| Well ID: | 7249976 | | | Data Entry Status: | |
| Construction Date: | | | | Data Src: | |
| Primary Water Use: | | | | Date Received: | 10/14/2015 |
| Sec. Water Use: | | | | Selected Flag: | Yes |
| Final Well Status: | Abandoned-Other | | | Abandonment Rec: | Yes |
| Water Type: | | | | Contractor: | 7472 |
| Casing Material: | | | | Form Version: | 7 |
| Audit No: | Z214799 | | | Owner: | |
| Tag: | | | | Street Name: | HWY 50 APPROX. 100M SOUTH OF COLERAIN |
| Construction Method: | | | | County: | PEEL |
| Elevation (m): | | | | Municipality: | BRAMPTON CITY (TORONTO GORE) |
| 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: | | | | | |

Bore Hole Information

| | | | |
|-------------------------------------|------------|-------------------------|--------------------------------|
| Bore Hole ID: | 1005739566 | Elevation: | 209.871887 |
| DP2BR: | | Elevrc: | |
| Spatial Status: | | Zone: | 17 |
| Code OB: | | East83: | 606276 |
| Code OB Desc: | | North83: | 4852579 |
| Open Hole: | | Org CS: | UTM83 |
| Cluster Kind: | | UTMRC: | 4 |
| Date Completed: | 7/24/2015 | 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: | | | |

Annular Space/Abandonment Sealing Record

| | |
|------------------------|------------|
| Plug ID: | 1005770451 |
| Layer: | 1 |
| Plug From: | 0 |
| Plug To: | 18.2 |
| Plug Depth UOM: | m |

Pipe Information

| | |
|-------------------|------------|
| Pipe ID: | 1005770443 |
| Casing No: | 0 |
| Comment: | |
| Alt Name: | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--|-------------------|----------------------------|------------------|------|----|
| <u>Construction Record - Casing</u> | | | | | |
| Casing ID: | | 1005770448 | | | |
| Layer: | | | | | |
| Material: | | | | | |
| Open Hole or Material: | | | | | |
| Depth From: | | | | | |
| Depth To: | | | | | |
| Casing Diameter: | | | | | |
| Casing Diameter UOM: | | cm | | | |
| Casing Depth UOM: | | m | | | |
| <u>Construction Record - Screen</u> | | | | | |
| Screen ID: | | 1005770449 | | | |
| Layer: | | | | | |
| Slot: | | | | | |
| Screen Top Depth: | | | | | |
| Screen End Depth: | | | | | |
| Screen Material: | | | | | |
| Screen Depth UOM: | | m | | | |
| Screen Diameter UOM: | | cm | | | |
| Screen Diameter: | | | | | |
| <u>Hole Diameter</u> | | | | | |
| Hole ID: | | 1005770446 | | | |
| Diameter: | | 5.2 | | | |
| Depth From: | | 2 | | | |
| Depth To: | | 18.2 | | | |
| Hole Depth UOM: | | m | | | |
| Hole Diameter UOM: | | cm | | | |
| <u>Hole Diameter</u> | | | | | |
| Hole ID: | | 1005770445 | | | |
| Diameter: | | 21 | | | |
| Depth From: | | 0 | | | |
| Depth To: | | 2 | | | |
| Hole Depth UOM: | | m | | | |
| Hole Diameter UOM: | | cm | | | |

| | | | | | |
|-----------|--------|-----------------|----------------------|---|------------|
| 53 | 1 of 4 | SE/292.1 | 204.9 / -4.00 | SLH TRANSPORT INC 9601 HWY 50 VAUGHAN ON L4H 2B9 | FST |
|-----------|--------|-----------------|----------------------|---|------------|

| | |
|-----------------------|---|
| Instance No: | 11609343 |
| Cont Name: | |
| Instance Type: | FS Liquid Fuel Tank |
| Fuel Type: | Diesel |
| Status: | Active |
| Capacity: | 100000 |
| Tank Material: | Steel |
| Corrosion Protection: | Painted |
| Tank Type: | Double Wall Horizontal AST |
| Install Year: | 2000 |
| Parent Facility Type: | Fuels Safety Private Fuel Outlet - Self Serve |
| Facility Type: | FS Liquid Fuel Tank |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|---------------------------------|-------------------|--------------------------------------|------------------|--|------|
| 53 | 2 of 4 | SE/292.1 | 204.9 / -4.00 | SLH TRANSPORT INC 9601 HWY 50 VAUGHAN ON | FSTH |
| License Issue Date: | | 10/13/2000 | | | |
| 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: | | 2000 | | | |
| Corrosion Protection: | | | | | |
| Capacity: | | 100000 | | | |
| Tank Fuel Type: | | Liquid Fuel Double Wall AST - Diesel | | | |
| 53 | 3 of 4 | SE/292.1 | 204.9 / -4.00 | SLH TRANSPORT INC 9601 HWY 50 VAUGHAN ON | FSTH |
| License Issue Date: | | 10/13/2000 | | | |
| 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: | | 2000 | | | |
| Corrosion Protection: | | | | | |
| Capacity: | | 100000 | | | |
| Tank Fuel Type: | | Liquid Fuel Double Wall AST - Diesel | | | |
| 53 | 4 of 4 | SE/292.1 | 204.9 / -4.00 | 9601 HWY 50, WOODBRIDGE ON | INC |
| Incident No: | | 1532778 | | | |
| Incident ID: | | | | | |
| Attribute Category: | | FS-Perform L1 Incident Insp | | | |
| Status Code: | | | | | |
| Incident Location: | | 9601 HWY 50, WOODBRIDGE - LEAK | | | |
| Drainage System: | | | | | |
| Sub Surface Contam.: | | | | | |
| Aff. Prop. Use Water: | | | | | |
| Contam. Migrated: | | | | | |
| Contact Natural Env.: | | | | | |
| Near Body of Water: | | | | | |
| Approx. Quant. Rel.: | | | | | |
| Equipment Model: | | | | | |
| Serial No: | | | | | |
| Residential App. Type: | | | | | |
| Commercial App. Type: | | | | | |
| Industrial App. Type: | | | | | |
| Institutional App. Type: | | | | | |
| Venting Type: | | | | | |
| Vent Connector Mater: | | | | | |
| Vent Chimney Mater: | | | | | |
| Pipeline Type: | | | | | |
| Pipeline Involved: | | | | | |
| Pipe Material: | | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--|-------------------|----------------------------|------------------|------|----|
| Depth Ground Cover: Regulator Location: Regulator Type: Operation Pressure: Liquid Prop Make: Liquid Prop Model: Liquid Prop Serial No: Equipment Type: Cylinder Capacity: Cylinder Capac. Units: Cylinder Material Type: Tank Capacity: Fuels Occurrence Type: Leak Fuel Type Involved: Diesel Date of Occurrence: 2014/11/30 00:00:00 Time of Occurrence: NULL Occur Insp Start Date: 2014/12/01 00:00:00 Any Health Impact: No Any Environmental Impact: No Was Service Interrupted: No Was Property Damaged: No Operation Type Involved: Private Fuel Outlet Enforcement Policy: NULL Prc Escalation Required: NULL Task No: 5276996 Notes: Occurrence Narrative: SPILL DUE TO CHECK VALVE A/G TANK Tank Material Type: Tank Storage Type: Tank Location Type: Pump Flow Rate Capac: Liquid Prop Notes: | | | | | |

| | | | | | |
|--|--------|----------|---------------|-------------|------|
| 54 | 1 of 1 | SE/298.0 | 204.9 / -4.00 | Brampton ON | WWIS |
| Well ID: 7249971 Construction Date: Primary Water Use: Sec. Water Use: Final Well Status: Abandoned-Other Water Type: Casing Material: Audit No: Z214797 Tag: Construction Method: Elevation (m): Elevation Reliability: Depth to Bedrock: Well Depth: Overburden/Bedrock: Pump Rate: Static Water Level: Flowing (Y/N): Flow Rate: Clear/Cloudy: | | | | | |
| Data Entry Status: Data Src: Date Received: 10/14/2015 Selected Flag: Yes Abandonment Rec: Yes Contractor: 7472 Form Version: 7 Owner: Street Name: HWY 50 APPROX. 860M NORTH OF RUTHERFORD County: PEEL Municipality: BRAMPTON CITY (TORONTO GORE) Site Info: Lot: Concession: Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability: | | | | | |
| Bore Hole Information Bore Hole ID: 1005739551 DP2BR: Spatial Status: | | | | | |
| Elevation: 207.990554 Elevrc: Zone: 17 | | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--|--------------------------|------------------------------------|--------------------------|-------------------------|--------------------------------|
| Code OB: | | | | East83: | 606703 |
| Code OB Desc: | | | | North83: | 4851637 |
| Open Hole: | | | | Org CS: | UTM83 |
| Cluster Kind: | | | | UTMRC: | 4 |
| Date Completed: | 7/24/2015 | | | 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: | | | | | |
| <u>Annular Space/Abandonment</u> | | | | | |
| <u>Sealing Record</u> | | | | | |
| Plug ID: | | 1005770385 | | | |
| Layer: | | 1 | | | |
| Plug From: | | 0 | | | |
| Plug To: | | 13.8 | | | |
| Plug Depth UOM: | | m | | | |
| <u>Pipe Information</u> | | | | | |
| Pipe ID: | | 1005770377 | | | |
| Casing No: | | 0 | | | |
| Comment: | | | | | |
| Alt Name: | | | | | |
| <u>Construction Record - Casing</u> | | | | | |
| Casing ID: | | 1005770382 | | | |
| Layer: | | | | | |
| Material: | | | | | |
| Open Hole or Material: | | | | | |
| Depth From: | | | | | |
| Depth To: | | | | | |
| Casing Diameter: | | | | | |
| Casing Diameter UOM: | | cm | | | |
| Casing Depth UOM: | | m | | | |
| <u>Construction Record - Screen</u> | | | | | |
| Screen ID: | | 1005770383 | | | |
| Layer: | | | | | |
| Slot: | | | | | |
| Screen Top Depth: | | | | | |
| Screen End Depth: | | | | | |
| Screen Material: | | | | | |
| Screen Depth UOM: | | m | | | |
| Screen Diameter UOM: | | cm | | | |
| Screen Diameter: | | | | | |
| <u>Hole Diameter</u> | | | | | |
| Hole ID: | | 1005770380 | | | |
| Diameter: | | 5.2 | | | |
| Depth From: | | 2 | | | |
| Depth To: | | 13.8 | | | |
| Hole Depth UOM: | | m | | | |
| Hole Diameter UOM: | | cm | | | |

| <i>Map Key</i> | <i>Number of Records</i> | <i>Direction/ Distance (m)</i> | <i>Elev/Diff (m)</i> | <i>Site</i> | <i>DB</i> |
|-----------------------------|--------------------------|------------------------------------|--------------------------|-------------|-----------|
| <u>Hole Diameter</u> | | | | | |
| Hole ID: | | 1005770379 | | | |
| Diameter: | | 21 | | | |
| Depth From: | | 0 | | | |
| Depth To: | | 2 | | | |
| Hole Depth UOM: | | m | | | |
| Hole Diameter UOM: | | cm | | | |

Unplottable Summary

Total: **67** Unplottable sites

| DB | Company Name/Site Name | Address | City | Postal |
|------|---------------------------------|--------------------------------|------------------|--------|
| AAGR | | Lot 18 Con 12 | Peel ON | |
| AAGR | | Lot 18 Con 12 | Peel ON | |
| AAGR | | Lot 18 Con 12 | Peel ON | |
| AGR | Edwin Horst | Lot W1/2 of 19, Con 12 | PEEL ON | |
| CA | VAUGHAN TOWN RUTHERFORD RD. | RUTHERFORD RD. | VAUGHAN TOWN ON | |
| CA | VAUGHAN TOWN | RUTHERFORD ROAD | VAUGHAN TOWN ON | |
| CA | VAUGHAN TOWN | RUTHERFORD ROAD | VAUGHAN TOWN ON | |
| CA | VAUGHAN TOWN | RUTHERFORD RD. | VAUGHAN TOWN ON | |
| CA | VAUGHAN TOWN | RUTHERFORD ROAD | VAUGHAN TOWN ON | |
| CA | VAUGHAN CITY | SWM - RUTHERFORD ROAD | VAUGHAN CITY ON | |
| CA | SOUTH MAPLE CREEK LANDS LTD. | RUTHERFORD RD.NGHB.2 MAPLE COM | VAUGHAN TOWN ON | |
| CA | SOUTH MAPLE CREEK LANDS LTD. | RUTHERFORD RD.NGHB.2 MAPLE COM | VAUGHAN TOWN ON | |
| CA | LONGMOOR BUILDING CO. | RUTHERFORD RD. LONGMOOR IND. | BRAMPTON CITY ON | |
| CA | SOUTH MAPLE CREEK LANDS LTD. | N. RUTHERFORD RD. NEIGHB. 2 | VAUGHAN TOWN ON | |
| CA | IMPERIAL OIL | RUTHERFORD ST.,ESSO GAS STA. | VAUGHAN TOWN ON | |
| CA | Vaughan Distribution Centre | Part Lots 16-19, Concession 10 | Vaughan ON | |
| CA | LONGMOOR BUILDING CO. | RUTHERFORD RD. LONGMOOR IND. | BRAMPTON CITY ON | |

| | | | | |
|------|---|--|-----------------|---------|
| CA | The Regional Municipality of Peel | Clarkway Dr between Castlemore Rd and Countryside Dr, | Brampton ON | |
| CA | The Corporation of the City of Brampton | From The Gore Road to Highway 50 | Brampton ON | |
| CA | The Corporation of the City of Brampton | From The Gore Road to Highway 50 | Brampton ON | |
| CA | Bolton/Brampton Trunk Sewer | Highway No. 50 | Brampton ON | |
| CA | IZUSA INVEST. INC.-PT.LOT 15/CONC. 6 | RUTHERFORD RD./TEMP. S.W. POND | VAUGHAN CITY ON | |
| CA | FIELDGATE DEVELOPMENT AND CONSTRUCTION | RUTHERFORD RD. | VAUGHAN TOWN ON | |
| CA | FIELDGATE DEVELOPMENT AND CONSTRUCTION | RUTHERFORD RD. | VAUGHAN TOWN ON | |
| CA | CITY OF VAUGHAN | RUTHERFORD ROAD | VAUGHAN CITY ON | |
| CA | ANNA LEONNE | RUTHERFORD RD. | VAUGHAN TOWN ON | |
| CA | ANNA LEONNE | RUTHERFORD RD. | VAUGHAN TOWN ON | |
| CA | AVDELL DEVELOPMENTS INC. | RIVERSIDE EST.SUBD/RUTHERFORD | VAUGHAN CITY ON | |
| CONV | PUROLATOR COURIER LTD. | | ON | |
| CONV | S.R. TRUCKING CO. LTD. | | ON | |
| CONV | SIM-TRAN (ONTARIO) INC. | | ON | |
| EBR | Artibus Development Corporation | located on the west side of Weston Road and south of Major Mackenzie Drive in Lot 20, Concession 6 CITY OF VAUGHAN | ON | |
| ECA | Berkshire Glade Estates Inc. & Bay-Yonge Custom Builders Inc. | Clarkway Drive | Brampton ON | L4K 5P5 |
| ECA | Block 33 West Properties Inc. | Part of Lot 20 and 21 | Vaughan ON | L3R 4T5 |
| ECA | The Corporation of the City of Brampton | From The Gore Road to Highway 50 | Brampton ON | L6Y 5T1 |
| ECA | The Corporation of the City of Brampton | From The Gore Road to Highway 50 | Brampton ON | L6Y 5T1 |
| ECA | The Regional Municipality of Peel | Clarkway Dr between Castlemore Rd and Countryside Dr, | Brampton ON | L6S 4J3 |
| EHS | | Rutherford Road | Vaughan ON | |
| EHS | | Highway 50 - no municipal address | Bolton ON | |

| | | | | |
|------|---|---|------------------|---------|
| EXP | REGIONAL MUNICIPALITY OF YORK TONY PULLA | RUTHERFORD RD MAINTENANCE DEPOT | MAPLE ON | |
| HINC | | LOT 13, CONCESSION 10 | BRAMPTON ON | |
| PES | SANT'S COLD CREEK NURSERY | R. R. #2, HWY. 50 | BOLTON ON | L7E5R8 |
| PES | SANT'S COLD CREEK NURSERY | R. R. #2, HWY. 50 | BOLTON ON | L7E5R8 |
| RST | SONNY'S ESSO | 17200 50 HWY | BRAMPTON ON | L0N 1P0 |
| SCT | CALEDON SAND & GRAVEL INC. | HIGHWAY 50 RR 1 | BOLTON ON | L7E 5Z7 |
| SCT | James Dick Concrete Aggregates - Div. of James Dick Construction Ltd. | Hwy 50 | Bolton ON | L7E 5T4 |
| SCT | JAMES DICK CONCRETE AGGREGATES | HWY 50 | BOLTON ON | L7E 5T4 |
| SCT | Caledon Sand & Gravel Inc. | Hwy 50 | Bolton ON | L7E 5Z7 |
| SPL | | North of Rutherford | Vaughan ON | |
| SPL | Huna Transport Inc.<UNOFFICIAL> | Regional Road # 50, south of Rutherford Drive | Brampton ON | |
| SPL | Canadian Pacific Railway Company | mile 15.3 Mac Tier Sub | Vaughan ON | |
| SPL | LODWICK TRANSPORT | HWY 50 JUST SOUTH OF BOLTON TRANSPORT TRUCK (CARGO) | PEEL R.M. ON | |
| SPL | UNKNOWN | HWY 50 BETWEEN HWY 9 AND HWY 7 | BRAMPTON CITY ON | |
| SPL | TRANSPORT TRUCK | HWY 50 & 22 ND LINE MOTOR VEHICLE (OPERATING FLUID) | BRAMPTON CITY ON | |
| SPL | PRIVATE OWNER | HWY 50 N OF BOLTON-TOP OF HILL ACROSS FROM PETRO CANADA STORAGE TANK/BARREL | PEEL R.M. ON | |
| SPL | TMT Freight Systems | West side of Hwy 50 1 km North of Rutherford Rd | Brampton ON | |
| SPL | Mancuso Paving Limited | SB Hwy 50 at Clarkway Dr | Brampton ON | |
| SPL | Anytime, Anywhere Transport<UNOFFICIAL> | between Huntington Rd and Hwy 50, North shoulder | Vaughan ON | |
| SPL | Canadian National Railway Company | Rutherford Road | Vaughan ON | |
| SPL | CANADIAN PACIFIC RAILWAYS | MILE 7.9, MACTIER SUB, JUST SOUTH OF WOODBRIDGE TRAIN | VAUGHAN CITY ON | |

| | | | |
|------|---------------------------|--|------------------|
| SPL | CANADIAN PACIFIC RAILWAYS | 12.8-15.2 RAILWAY MILEAGE. TRAIN | VAUGHAN CITY ON |
| SPL | PUROLATOR COURIER LTD. | WAREHOUSE | BRAMPTON CITY ON |
| SPL | CANADIAN PACIFIC RAILWAYS | MACTIER SUBDIVISION BEFORE VAUGHAN AND UTOPIA ON CP RAIL TRACK MOTOR VEHICLE (OPERATING FLUID) | VAUGHAN CITY ON |
| WWIS | | lot 18 con 10 | VAUGHAN ON |
| WWIS | | lot 18 | ON |
| WWIS | | | BOLTON ON |
| WWIS | | con 12 | ON |

Unplottable Report

Site: Lot 18 Con 12 Peel ON

Database:
AAGR

Type:
Region/County: Wellington
Township: Peel
Concession: 12
Lot: 18
Size (ha):
Landuse:
Comments:

Site: Lot 18 Con 12 Peel ON

Database:
AAGR

Type:
Region/County: Wellington
Township: Peel
Concession: 12
Lot: 18
Size (ha):
Landuse:
Comments: rehabilitated

Site: Lot 18 Con 12 Peel ON

Database:
AAGR

Type: Pit
Region/County: Wellington
Township: Peel
Concession: 12
Lot: 18
Size (ha): 2
Landuse:
Comments: appears hummocky with some revegetation

Site: Edwin Horst
Lot W1/2 of 19, Con 12 PEEL ON

Database:
AAGR

| | | | |
|----------------------------|-----------------|----------------------------|---------------|
| ID: | 5661 | Location Name: | |
| Current Status: | | Licensed Area (ha): | |
| Status Date: | | Extraction Area: | |
| Effective Date: | | Authority Type: | |
| Approval Type: | Class B Licence | Section: | |
| Operation Type: | Pit | Municipality: | MAPLETON TP |
| Max Annual Tonnage: | 20000 | County: | WELLINGTON CO |
| Unlimited Tonnage: | | District: | |

Site: VAUGHAN TOWN RUTHERFORD RD.
RUTHERFORD RD. VAUGHAN TOWN ON

Database:
CA

Certificate #: 7-0751-88-
Application Year: 88

Issue Date: 11/28/1988
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: VAUGHAN TOWN
RUTHERFORD ROAD VAUGHAN TOWN ON

Database:
CA

Certificate #: 7-0551-89-
Application Year: 89
Issue Date: 5/23/1989
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: VAUGHAN TOWN
RUTHERFORD ROAD VAUGHAN TOWN ON

Database:
CA

Certificate #: 7-1753-87-
Application Year: 87
Issue Date: 12/17/1987
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: VAUGHAN TOWN
RUTHERFORD RD. VAUGHAN TOWN ON

Database:
CA

Certificate #: 3-1505-87-
Application Year: 87
Issue Date: 8/24/1987
Approval Type: Municipal sewage
Status: Cancelled
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: VAUGHAN TOWN
RUTHERFORD ROAD VAUGHAN TOWN ON

Database:
CA

Certificate #: 3-2074-87-
Application Year: 87
Issue Date: 12/17/1987
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: VAUGHAN CITY
SWM - RUTHERFORD ROAD VAUGHAN CITY ON

Database:
CA

Certificate #: 3-0803-95-
Application Year: 95
Issue Date: 7/25/1995
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: SOUTH MAPLE CREEK LANDS LTD.
RUTHERFORD RD.NGHB.2 MAPLE COM VAUGHAN TOWN ON

Database:
CA

Certificate #: 7-1498-89-
Application Year: 89
Issue Date: 9/15/1989
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: SOUTH MAPLE CREEK LANDS LTD.
RUTHERFORD RD.NGHB.2 MAPLE COM VAUGHAN TOWN ON

Database:
CA

Certificate #: 3-1798-89-
Application Year: 89
Issue Date: 9/15/1989
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:

Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: LONGMOOR BUILDING CO.
RUTHERFORD RD. LONGMOOR IND. BRAMPTON CITY ON

Database:
CA

Certificate #: 3-0336-87-
Application Year: 87
Issue Date: 3/27/1987
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: SOUTH MAPLE CREEK LANDS LTD.
N. RUTHERFORD RD. NEIGHB. 2 VAUGHAN TOWN ON

Database:
CA

Certificate #: 3-0293-86-
Application Year: 86
Issue Date: 4/16/1986
Approval Type: Municipal sewage
Status: Nullity, letter of concurrence issued
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: IMPERIAL OIL
RUTHERFORD ST., ESSO GAS STA. VAUGHAN TOWN ON

Database:
CA

Certificate #: 3-1280-94-
Application Year: 94
Issue Date: 10/5/1994
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: Vaughan Distribution Centre
Part Lots 16-19, Concession 10 Vaughan ON

Database:
CA

Certificate #: 7545-4JSK2X
Application Year: 00
Issue Date: 5/12/00

Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name: Sears Canada Inc.
Client Address: 222 Jarvis Street
Client City: Toronto
Client Postal Code: M5B 2B8
Project Description: This application is for the installation of a stormwater management system to serve the Sears Canada Inc. Vaughan Distribution Centre, which includes two (2) stormwater management wet detention ponds that receives storm water runoff from a two drainage area of 16.05 and 11.22 hectares respectively, discharging to East Rainbow Creek via outlet control structures.

Contaminants:
Emission Control:

Site: **LONGMOOR BUILDING CO.**
RUTHERFORD RD. LONGMOOR IND. BRAMPTON CITY ON

Database:
CA

Certificate #: 7-0280-87-
Application Year: 87
Issue Date: 3/27/1987
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: **The Regional Municipality of Peel**
Clarkway Dr between Castlemore Rd and Countryside Dr, Brampton ON

Database:
CA

Certificate #: 6393-8DGKHP
Application Year: 2011
Issue Date: 2/8/2011
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 Brampton**
From The Gore Road to Highway 50 Brampton ON

Database:
CA

Certificate #: 7097-86EPGY
Application Year: 2010
Issue Date: 7/21/2010
Approval Type: Municipal and Private Sewage Works
Status: Revoked and/or Replaced
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: *The Corporation of the City of Brampton
From The Gore Road to Highway 50 Brampton ON*

Database:
[CA](#)

Certificate #: 6949-8A9KGR
Application Year: 2010
Issue Date: 10/19/2010
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: *Bolton/Brampton Trunk Sewer
Highway No. 50 Brampton ON*

Database:
[CA](#)

Certificate #: 7514-5A2PTM
Application Year: 02
Issue Date: 5/13/02
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name: The Corporation of the Regional Municipality of Peel
Client Address: 10 Peel Centre Drive, Fourth Floor
Client City: Brampton
Client Postal Code: L6T 4B9
Project Description: Install Storm Sewers on Highway No. 50
Contaminants:
Emission Control:

Site: *IZUSA INVEST. INC.-PT.LOT 15/CONC. 6
RUTHERFORD RD./TEMP. S.W. POND VAUGHAN CITY ON*

Database:
[CA](#)

Certificate #: 3-1317-92-
Application Year: 92
Issue Date: 11/24/1992
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: *FIELDGATE DEVELOPMENT AND CONSTRUCTION
RUTHERFORD RD. VAUGHAN TOWN ON*

Database:
[CA](#)

Certificate #: 3-0269-89-
Application Year: 89
Issue Date: 4/7/1989
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:

Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: FIELDGATE DEVELOPMENT AND CONSTRUCTION
RUTHERFORD RD. VAUGHAN TOWN ON

Database:
CA

Certificate #: 7-0244-89-
Application Year: 89
Issue Date: 4/7/1989
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: CITY OF VAUGHAN
RUTHERFORD ROAD VAUGHAN CITY ON

Database:
CA

Certificate #: 7-0003-95-
Application Year: 95
Issue Date: 1/12/1995
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ANNA LEONNE
RUTHERFORD RD. VAUGHAN TOWN ON

Database:
CA

Certificate #: 3-0480-87-
Application Year: 87
Issue Date: 4/29/1987
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ANNA LEONNE
RUTHERFORD RD. VAUGHAN TOWN ON

Database:
CA

Certificate #: 7-0395-87-

Application Year: 87
Issue Date: 4/29/1987
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: AVDELL DEVELOPMENTS INC.
RIVERSIDE EST.SUBD/RUTHERFORD VAUGHAN CITY ON

Database:
CA

Certificate #: 7-0874-95-
Application Year: 95
Issue Date: 9/8/1995
Approval Type: Municipal water
Status: Cancelled
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: PUROLATOR COURIER LTD.
ON

Database:
CONV

File No:
Crown Brief No: 99-0022-0138
Court Location:
Publication City:
Publication Title:
Act:
Act(s):
First Matter:
Second Matter:
Investigation 1:
Investigation 2:
Penalty Imposed:
Description:

Location:
Region: CENTRAL REGION
Ministry District: METRO

Background:
URL:

FAILURE TO NOTIFY THE MINISTRY OF A DISCHARGE OF DIESEL FUEL, OUT OF THE NORMAL COURSE OF EVENTS, INTO THE NATURAL ENVIRONMENT.

Additional Details

Publication Date:
Count: 1
Act: EPA
Regulation:
Section: 15(1)
Act/Regulation/Section: EPA- -15(1)
Date of Offence:
Date of Conviction:
Date Charged: 10/13/99
Charge Disposition: SUSPENDED SENTENCE
Fine: \$1,800.00
Synopsis:

Site: S.R. TRUCKING CO. LTD.
ON

Database:
CONV

File No:
Crown Brief No: 99-0204-0289
Court Location:
Publication City:
Publication Title:
Act:
Act(s):
First Matter:
Second Matter:
Investigation 1:
Investigation 2:
Penalty Imposed:
Description: OPERATE HEAVY DIESEL FUELLED MOTOR VEHICLE THAT CONTRAVENES EMISSION STANDARDS
Background:
URL:

Location:
Region: CENTRAL REGION
Ministry District: METRO

Additional Details

Publication Date:
Count: 1
Act: EPA
Regulation: 361/98
Section: 12(5)
Act/Regulation/Section: EPA-361/98-12(5)
Date of Offence:
Date of Conviction:
Date Charged: 1/14/00
Charge Disposition: SUSPENDED SENTENCE
Fine: \$425.00
Synopsis:

Site: SIM-TRAN (ONTARIO) INC.
ON

Database:
CONV

File No:
Crown Brief No: 98-0096-0164
Court Location:
Publication City:
Publication Title:
Act:
Act(s):
First Matter:
Second Matter:
Investigation 1:
Investigation 2:
Penalty Imposed:
Description: PERMIT THE OPERATION OF A HEAVY DIESEL-FUELLED MOTOR VEHICLE THAT
Background:
URL:

Location:
Region: CENTRAL REGION
Ministry District: METRO

Additional Details

Publication Date:
Count: 1
Act: EPA
Regulation: 361/98
Section: 12(5)
Act/Regulation/Section: EPA-361/98- 12(5)
Date of Offence:
Date of Conviction:
Date Charged: 1/21/99
Charge Disposition: SUSPENDED SENTENCE
Fine: \$250.00

Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Address: From The Gore Road to Highway 50
Full Address:
Full PDF Link: <https://www.accessenvironment.ene.gov.on.ca/instruments/7523-84SJRW-14.pdf>

Longitude:
Latitude:
Geometry X:
Geometry Y:

Site: *The Corporation of the City of Brampton*
From The Gore Road to Highway 50 Brampton ON L6Y 5T1

Database:
[ECA](#)

Approval No: 7097-86EPGY
Approval Date: 2010-07-21
Status: Revoked and/or Replaced
Record Type: ECA
Link Source: IDS
SWP Area Name:
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Address: From The Gore Road to Highway 50
Full Address:
Full PDF Link: <https://www.accessenvironment.ene.gov.on.ca/instruments/0297-856JXP-14.pdf>

MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:

Site: *The Regional Municipality of Peel*
Clarkway Dr between Castlemore Rd and Countryside Dr, Brampton ON L6S 4J3

Database:
[ECA](#)

Approval No: 6393-8DGKHP
Approval Date: 2011-02-08
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Address: Clarkway Dr between Castlemore Rd and Countryside Dr,
Full Address:
Full PDF Link: <https://www.accessenvironment.ene.gov.on.ca/instruments/3007-8CFK8S-14.pdf>

MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:

Site: *Rutherford Road Vaughan ON*

Database:
[EHS](#)

Order No: 20060525020
Status: C
Report Type: Basic Report
Report Date: 6/2/2006
Date Received: 5/25/2006
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:

Nearest Intersection: Rutherford Rd and Bathurst St
Municipality: York
Client Prov/State: ON
Search Radius (km): 0.25
X: -79.465661
Y: 43.845442

Site: *Highway 50 - no municipal address Bolton ON*

Database:
[EHS](#)

Order No: 20041222004
Status: C
Report Type: Complete Report
Report Date: 1/3/05
Date Received: 12/22/04
Previous Site Name:
Lot/Building Size:

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): 0.5
X: -79.723944
Y: 43.8557

Additional Info Ordered:

Site: REGIONAL MUNICIPALITY OF YORK TONY PULLA
RUTHERFORD RD MAINTENANCE DEPOT MAPLE ON

Database:
EXP

Instance No: 10125851
Instance ID: 12398
Instance Type: FS Facility
Description: FS Propane Refill Cntr - Cylr Fill
Status: EXPIRED
TSSA Program Area:
Maximum Hazard Rank:
Facility Type:
Expired Date:

Site: LOT 13, CONCESSION 10 BRAMPTON ON

Database:
HINC

External File Num: FS INC 0609-02662
Fuel Occurrence Type:
Date of Occurrence:
Fuel Type Involved:
Status Desc: Completed - No Action Required
Job Type Desc: Incident/Near-Miss Occurrence (FS)
Oper. Type Involved:
Service Interruptions:
Property Damage:
Fuel Life Cycle Stage:
Root Cause:
Reported Details: Leak is on a natural gas well on property owned by TransCanada Pipeline.
Fuel Category: Gaseous Fuel
Occurrence Type: Near-miss
Affiliation: Industry Stakeholder (Licensee/Registration/Certificate Holder, Facility Owner, etc.)
County Name: Halton
Approx. Quant. Rel:
Nearby body of water:
Enter Drainage Syst.:
Approx. Quant. Unit:
Environmental Impact:

Site: SANT'S COLD CREEK NURSERY
R. R. #2, HWY. 50 BOLTON ON L7E5R8

Database:
PES

Detail Licence No:
Licence No: 09418
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:

Operator Box:
Operator Class:
Operator No:
Operator Type:
Oper Area Code: 416
Oper Phone No: 8570416
Operator Ext:
Operator Lot:
Oper Concession:
Operator Region:
Operator District:
Operator County:
Op Municipality:
Post Office Box:
MOE District:
SWP Area Name:

Site: SANT'S COLD CREEK NURSERY
R. R. #2, HWY. 50 BOLTON ON L7E5R8

Database:
[PES](#)

Detail Licence No: 23-01-09418-0
Licence No: 09418
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: 3
District: 1
County: 49
Trade Name:
PDF Link:

Operator Box:
Operator Class:
Operator No:
Operator Type:
Oper Area Code: 416
Oper Phone No: 8570416
Operator Ext:
Operator Lot:
Oper Concession:
Operator Region: 3
Operator District: 1
Operator County: 49
Op Municipality:
Post Office Box:
MOE District:
SWP Area Name:

Site: SONNY'S ESSO
17200 50 HWY BRAMPTON ON L0N 1P0

Database:
[RST](#)

Headcode: 1186800
Headcode Desc: Service Stations-Gasoline, Oil & Natural Gas
Phone: 9058800086
List Name:
Description:

Site: CALEDON SAND & GRAVEL INC.
HIGHWAY 50 RR 1 BOLTON ON L7E 5Z7

Database:
[SCT](#)

Established: 1966
Plant Size (ft²): 0
Employment: 47

--Details--

Description: MINERALS AND EARTHES, GROUND OR OTHERWISE TREATED
SIC/NAICS Code: 3295

Site: James Dick Concrete Aggregates - Div. of James Dick Construction Ltd.
Hwy 50 Bolton ON L7E 5T4

Database:
[SCT](#)

Established: 1964
Plant Size (ft²): 10000
Employment: 250

--Details--

Description: All Other Non-Metallic Mineral Product Manufacturing
SIC/NAICS Code: 327990

Site: JAMES DICK CONCRETE AGGREGATES
HWY 50 BOLTON ON L7E 5T4

Database:
[SCT](#)

Established: 1964
Plant Size (ft²): 10000
Employment: 250

--Details--

Description: Ready-Mix Concrete Manufacturing
SIC/NAICS Code: 327320

Description: All Other Non-Metallic Mineral Product Manufacturing
SIC/NAICS Code: 327990

Site: **Caledon Sand & Gravel Inc.**
Hwy 50 Bolton ON L7E 5Z7

Database:
SCT

Established: 1966
Plant Size (ft²):
Employment: 47

--Details--

Description: All Other Non-Metallic Mineral Product Manufacturing
SIC/NAICS Code: 327990

Description: Other Specialty-Line Building Supplies Wholesaler-Distributors
SIC/NAICS Code: 416390

Site: **North of Rutherford Vaughan ON**

Database:
SPL

Ref No: 4554-78LQU6
Site No:
Incident Dt:
Year:
Incident Cause: Other Transport Accident
Incident Event:
Contaminant Code: 13
Contaminant Name: DIESEL FUEL
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Environment Impact: Not Anticipated
Nature of Impact: Soil Contamination; Surface Water Pollution
Receiving Medium: Land & Water
Receiving Env:
MOE Response:
Dt MOE Arvl on Scn:
MOE Reported Dt: 11/3/2007
Dt Document Closed:
Incident Reason: Unknown - Reason not determined
Site Name: Hwy 50<UNOFFICIAL>
Site County/District:
Site Geo Ref Meth:
Incident Summary: MVA: Hwy 50, 150 L diesel to ditch, cleaning
Contaminant Qty: 150 L

Discharger Report:
Material Group: Oil
Health/Env Conseq:
Client Type:
Sector Type: Other Motor Vehicle
Agency Involved:
Nearest Watercourse:
Site Address:
Site District Office:
Site Postal Code:
Site Region:
Site Municipality: Vaughan
Site Lot:
Site Conc:
Northing:
Easting:
Site Geo Ref Accu:
Site Map Datum:
SAC Action Class:
Source Type:

Site: **Huna Transport Inc.<UNOFFICIAL>**
Regional Road # 50, south of Rutherford Drive Brampton ON

Database:
SPL

Ref No: 7457-8B544C
Site No:
Incident Dt:
Year:
Incident Cause: Other Transport Accident
Incident Event:
Contaminant Code: 13
Contaminant Name: DIESEL FUEL
Contaminant Limit 1:
Contam Limit Freq 1:

Discharger Report:
Material Group:
Health/Env Conseq:
Client Type:
Sector Type: Transport Truck
Agency Involved:
Nearest Watercourse:
Site Address:
Site District Office:
Site Postal Code:

Contaminant UN No 1:
Environment Impact: Not Anticipated
Nature of Impact: Soil Contamination
Receiving Medium:
Receiving Env:
MOE Response: No Field Response
Dt MOE Arvl on Scn:
MOE Reported Dt: 11/11/2010
Dt Document Closed:
Incident Reason: Error- Operator error
Site Name: highway<UNOFFICIAL>
Site County/District:
Site Geo Ref Meth:
Incident Summary: TT: diesel to road; ~ 283 L; cntnd & clng
Contaminant Qty: 283 L

Site Region:
Site Municipality:
Site Lot:
Site Conc:
Northing:
Easting:
Site Geo Ref Accu:
Site Map Datum:
SAC Action Class: Highway Spills (usually highway accidents)
Source Type:

Site: Canadian Pacific Railway Company
 mile 15.3 Mac Tier Sub Vaughan ON **Database:**
SPL

Ref No: 6140-9MXE45
Site No: NA
Incident Dt: 2014/08/13
Year:
Incident Cause: Leak/Break
Incident Event:
Contaminant Code: 15
Contaminant Name: HYDRAULIC OIL
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Environment Impact: Not Anticipated
Nature of Impact: Other Impact(s)
Receiving Medium:
Receiving Env:
MOE Response:
Dt MOE Arvl on Scn:
MOE Reported Dt: 2014/08/13
Dt Document Closed:
Incident Reason: Material Failure - Poor Design/Substandard Material
Site Name: Vaughan Yard<UNOFFICIAL>
Site County/District:
Site Geo Ref Meth:
Incident Summary: CP Rail: 3 L hydraulic oil to concrete pad
Contaminant Qty: 3 L

Discharger Report:
Material Group:
Health/Env Conseq:
Client Type:
Sector Type: Motor Vehicle
Agency Involved:
Nearest Watercourse:
Site Address: mile 15.3 Mac Tier Sub
Site District Office:
Site Postal Code:
Site Region:
Site Municipality: Vaughan
Site Lot:
Site Conc:
Northing:
Easting:
Site Geo Ref Accu:
Site Map Datum:
SAC Action Class: Land Spills
Source Type:

Site: LODWICK TRANSPORT
 HWY 50 JUST SOUTH OF BOLTON TRANSPORT TRUCK (CARGO) PEEL R.M. ON **Database:**
SPL

Ref No: 39013
Site No:
Incident Dt: 8/9/1990
Year:
Incident Cause: OTHER TRANSPORTATION ACCIDENT
Incident Event:
Contaminant Code:
Contaminant Name:
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Environment Impact: POSSIBLE
Nature of Impact:
Receiving Medium: LAND
Receiving Env:
MOE Response:
Dt MOE Arvl on Scn:

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: 21000
Site Lot:
Site Conc:
Northing:
Easting: OPP, FD, PEEL R.M.
Site Geo Ref Accu:

MOE Reported Dt: 8/9/1990
Dt Document Closed:
Incident Reason: UNKNOWN
Site Name:
Site County/District:
Site Geo Ref Meth:
Incident Summary: LODWICK TRANSPORT - 150 L CAR PAINT TO DITCH.
Contaminant Qty:

Site Map Datum:
SAC Action Class:
Source Type:

Site: UNKNOWN
HWY 50 BETWEEN HWY 9 AND HWY 7 BRAMPTON CITY ON

Database:
SPL

Ref No: 229955
Site No:
Incident Dt: 6/27/2002
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: POSSIBLE
Nature of Impact: Soil contamination
Receiving Medium: LAND
Receiving Env:
MOE Response:
Dt MOE Arvl on Scn:
MOE Reported Dt: 6/27/2002
Dt Document Closed:
Incident Reason: UNKNOWN
Site Name:
Site County/District:
Site Geo Ref Meth:
Incident Summary: TRAIL OF VEGETABLE BASED OIL ON ASPHALT RD (HWY50) MOSTLY ABSORBED,SANDED
Contaminant Qty:

Discharger Report:
Material Group:
Health/Env Conseq:
Client Type:
Sector Type:
Agency Involved: REGION OF PEEL
Nearest Watercourse:
Site Address:
Site District Office:
Site Postal Code:
Site Region:
Site Municipality: 21101
Site Lot:
Site Conc:
Northing:
Easting:
Site Geo Ref Accu:
Site Map Datum:
SAC Action Class:
Source Type:

Site: TRANSPORT TRUCK
HWY 50 & 22 ND LINE MOTOR VEHICLE (OPERATING FLUID) BRAMPTON CITY ON

Database:
SPL

Ref No: 78951
Site No:
Incident Dt: 10/2/1992
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: 10/2/1992
Dt Document Closed:
Incident Reason: ERROR
Site Name:
Site County/District:
Site Geo Ref Meth:
Incident Summary: BACKENTRY/TRNASPORT TRUCK-135 L DIESEL FUEL TO THEROADWAY,OPP,FD,MTO.
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: 21101
Site Lot:
Site Conc:
Northing:
Easting: OPP,PEEL REG,FD,MTO.
Site Geo Ref Accu:
Site Map Datum:
SAC Action Class:
Source Type:

Site: PRIVATE OWNER
HWY 50 N OF BOLTON-TOP OF HILL ACROSS FROM PETRO CANADA STORAGE TANK/BARREL PEEL R.M. ON

Database:
SPL

Ref No: 38095
Site No:
Incident Dt: 7/23/1990
Year:
Incident Cause: PIPE/HOSE LEAK
Incident Event:
Contaminant Code:
Contaminant Name:
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Environment Impact: CONFIRMED
Nature of Impact: Soil contamination
Receiving Medium: LAND
Receiving Env:
MOE Response:
Dt MOE Arvl on Scn:
MOE Reported Dt: 7/23/1990
Dt Document Closed:
Incident Reason: CORROSION
Site Name:
Site County/District:
Site Geo Ref Meth:
Incident Summary: FURNACE OIL TO GROUND
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: 21000
Site Lot:
Site Conc:
Northing:
Easting:
Site Geo Ref Accu:
Site Map Datum:
SAC Action Class:
Source Type:

Site: TMT Freight Systems
West side of Hwy 50 1 km North of Rutherford Rd Brampton ON

Database:
SPL

Ref No: 1611-9QXLBE
Site No: NA
Incident Dt: 2014/11/17
Year:
Incident Cause: Collision/Accident
Incident Event:
Contaminant Code: 13
Contaminant Name: DIESEL FUEL
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Environment Impact:
Nature of Impact: Land
Receiving Medium:
Receiving Env:
MOE Response: Y
Dt MOE Arvl on Scn: 2014/11/18
MOE Reported Dt: 2014/11/17
Dt Document Closed:
Incident Reason: Operator/Human Error
Site Name: Southbound lane and Road-side ditch<UNOFFICIAL>
Site County/District:
Site Geo Ref Meth:
Incident Summary: TMT Freight Systems, ~250L dsl to ditch. contained
Contaminant Qty: 250 L

Discharger Report:
Material Group:
Health/Env Conseq:
Client Type:
Sector Type: Truck - Only Saddle Tanks
Agency Involved:
Nearest Watercourse:
Site Address: West side of Hwy 50 1 km North of Rutherford Rd
Site District Office:
Site Postal Code:
Site Region:
Site Municipality: Brampton
Site Lot:
Site Conc:
Northing: 4852535
Easting: 606558
Site Geo Ref Accu:
Site Map Datum:
SAC Action Class: Primary Assessment of Incident
Source Type:

Site: Mancuso Paving Limited
SB Hwy 50 at Clarkway Dr Brampton ON

Database:
SPL

Ref No: 6361-AH4JKY
Discharger Report:

Site No: NA
Incident Dt: 2016/12/29
Year:
Incident Cause:
Incident Event: Collision/Accident
Contaminant Code: 13
Contaminant Name: DIESEL FUEL
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Environment Impact:
Nature of Impact:
Receiving Medium:
Receiving Env: Land; Surface Water
MOE Response: No
Dt MOE Arvl on Scn:
MOE Reported Dt: 2016/12/29
Dt Document Closed: 2017/01/09
Incident Reason: Operator/Human Error
Site Name: Diesel spill<UNOFFICIAL>
Site County/District:
Site Geo Ref Meth:
Incident Summary: TT MVA Hwy 50, 50-100L diesel to shoulder, CBs, cntd
Contaminant Qty: 100 L

Material Group:
Health/Env Conseq:
Client Type:
Sector Type: Municipal Sewage
Agency Involved:
Nearest Watercourse:
Site Address: SB Hwy 50 at Clarkway Dr
Site District Office:
Site Postal Code:
Site Region:
Site Municipality: Brampton
Site Lot:
Site Conc:
Northing:
Easting:
Site Geo Ref Accu:
Site Map Datum:
SAC Action Class: Highway Spills (usually highway accidents)
Source Type:

Site: *Anytime, Anywhere Transport<UNOFFICIAL> between Huntington Rd and Hwy 50, North shoulder Vaughan ON* **Database:** *SPL*

Ref No: 1878-7MT68N
Site No:
Incident Dt:
Year:
Incident Cause: Other Transport Accident
Incident Event:
Contaminant Code: 14
Contaminant Name: ASPHALT
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Environment Impact: Possible
Nature of Impact: Soil Contamination
Receiving Medium:
Receiving Env:
MOE Response: No Field Response
Dt MOE Arvl on Scn:
MOE Reported Dt: 12/29/2008
Dt Document Closed: 3/24/2009
Incident Reason: Other - Reason not otherwise defined
Site Name: Major Mackenzie Rd<UNOFFICIAL>
Site County/District:
Site Geo Ref Meth:
Incident Summary: Anytime, Anywhere Transpo: granular asphalt to field
Contaminant Qty: 0 other - see incident description

Discharger Report:
Material Group:
Health/Env Conseq:
Client Type:
Sector Type: Transport Truck
Agency Involved:
Nearest Watercourse:
Site Address:
Site District Office: York-Durham
Site Postal Code:
Site Region:
Site Municipality: Vaughan
Site Lot:
Site Conc:
Northing:
Easting:
Site Geo Ref Accu:
Site Map Datum:
SAC Action Class: Primary Assessment of Incident
Source Type:

Site: *Canadian National Railway Company Rutherford Road Vaughan ON* **Database:** *SPL*

Ref No: 7343-9PHPEW
Site No: NA
Incident Dt: 2014/10/02
Year:
Incident Cause: Leak/Break
Incident Event:
Contaminant Code: 27
Contaminant Name: HEXAMETHYLENEDIAMINE
Contaminant Limit 1:

Discharger Report:
Material Group:
Health/Env Conseq:
Client Type:
Sector Type: Train
Agency Involved:
Nearest Watercourse:
Site Address: Rutherford Road
Site District Office:

| | | | |
|------------------------------|--|---------------------------|-----------------------------|
| Contam Limit Freq 1: | | Site Postal Code: | |
| Contaminant UN No 1: | | Site Region: | |
| Environment Impact: | Not Anticipated | Site Municipality: | Vaughan |
| Nature of Impact: | Soil Contamination | Site Lot: | |
| Receiving Medium: | | Site Conc: | |
| Receiving Env: | | Northing: | |
| MOE Response: | No Field Response | Easting: | |
| Dt MOE Arvl on Scn: | | Site Geo Ref Accu: | |
| MOE Reported Dt: | 2014/10/02 | Site Map Datum: | |
| Dt Document Closed: | | SAC Action Class: | Derailment / Railway Spills |
| Incident Reason: | Unknown / N/A | Source Type: | |
| Site Name: | MacMillan Yard<UNOFFICIAL> | | |
| Site County/District: | | | |
| Site Geo Ref Meth: | | | |
| Incident Summary: | CN MacMillan Yard: leak of hexamethylenediamine from railcar | | |
| Contaminant Qty: | 0 other - see incident description | | |

| | | | |
|------------------------------|--|------------------------------|------------|
| Site: | CANADIAN PACIFIC RAILWAYS | Database: | SPL |
| | MILE 7.9, MACTIER SUB, JUST SOUTH OF WOODBRIDGE TRAIN VAUGHAN CITY ON | | |
| Ref No: | 151023 | Discharger Report: | |
| Site No: | | Material Group: | |
| Incident Dt: | 1/4/1998 | Health/Env Conseq: | |
| Year: | | Client Type: | |
| Incident Cause: | OTHER CONTAINER 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: | 27101 |
| Nature of Impact: | Soil contamination | Site Lot: | |
| Receiving Medium: | LAND | Site Conc: | |
| Receiving Env: | | Northing: | |
| MOE Response: | | Easting: | EPS |
| Dt MOE Arvl on Scn: | | Site Geo Ref Accu: | |
| MOE Reported Dt: | 1/4/1998 | Site Map Datum: | |
| Dt Document Closed: | | SAC Action Class: | |
| Incident Reason: | UNKNOWN | Source Type: | |
| Site Name: | | | |
| Site County/District: | | | |
| Site Geo Ref Meth: | | | |
| Incident Summary: | CP RAIL: 45 L DIESEL TO RAILBED FROM LEAKING TANK, UNRECOVERABLE. | | |
| Contaminant Qty: | | | |

| | | | |
|-----------------------------|---|------------------------------|-------------|
| Site: | CANADIAN PACIFIC RAILWAYS | Database: | SPL |
| | 12.8-15.2 RAILWAY MILEAGE. TRAIN VAUGHAN CITY ON | | |
| Ref No: | 159045 | Discharger Report: | |
| Site No: | | Material Group: | |
| Incident Dt: | 8/15/1998 | 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: | CONFIRMED | Site Municipality: | 27101 |
| Nature of Impact: | Soil contamination | Site Lot: | |
| Receiving Medium: | LAND | Site Conc: | |
| Receiving Env: | | Northing: | |
| MOE Response: | | Easting: | ENVT CANADA |
| Dt MOE Arvl on Scn: | | Site Geo Ref Accu: | |

MOE Reported Dt: 8/15/1998
Dt Document Closed:
Incident Reason: EQUIPMENT FAILURE
Site Name:
Site County/District:
Site Geo Ref Meth:
Incident Summary:
Contaminant Qty:

Site Map Datum:
SAC Action Class:
Source Type:

CANADIAN PACIFIC RAILWAYS225 L HYDRAULIC OIL ALONG4 KM, NO CLEANUP.

Site: PUROLATOR COURIER LTD.
WAREHOUSE BRAMPTON CITY ON

Database:
SPL

Ref No: 19194
Site No:
Incident Dt: 5/27/1989
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:
Nature of Impact:
Receiving Medium: AIR
Receiving Env:
MOE Response:
Dt MOE Arvl on Scn:
MOE Reported Dt: 5/27/1989
Dt Document Closed:
Incident Reason: ERROR
Site Name:
Site County/District:
Site Geo Ref Meth:
Incident Summary:
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: 21101
Site Lot:
Site Conc:
Northing:
Easting: CANUTEC,MOE
Site Geo Ref Accu:
Site Map Datum:
SAC Action Class:
Source Type:

PUROLATOR-1 L DICHLORO METHANE TO FLOOR- VAPOURSOUTSIDE WAREHOUSE

Site: CANADIAN PACIFIC RAILWAYS
MACTIER SUBDIVISION BEFORE VAUGHAN AND UTOPIA ON CP RAIL TRACK MOTOR VEHICLE (OPERATING
FLUID) VAUGHAN CITY ON

Database:
SPL

Ref No: 169491
Site No:
Incident Dt: 6/27/1999
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: POSSIBLE
Nature of Impact: Soil contamination
Receiving Medium: LAND
Receiving Env:
MOE Response:
Dt MOE Arvl on Scn:
MOE Reported Dt: 6/27/1999
Dt Document Closed:
Incident Reason: EQUIPMENT FAILURE
Site Name:
Site County/District:
Site Geo Ref Meth:
Incident Summary:

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: 27101
Site Lot:
Site Conc:
Northing:
Easting:
Site Geo Ref Accu:
Site Map Datum:
SAC Action Class:
Source Type:

CP RAIL: SPILL OF 5,600 LDIESEL FUEL OVER 72 KM TRAIN STOPPED REPAIRS TBA

Contaminant Qty:

Site:
lot 18 con 10 VAUGHAN ON

Database:
WWIS

Well ID: 7036953
Construction Date:
Primary Water Use:
Sec. Water Use:
Final Well Status: Abandoned-Other
Water Type:
Casing Material:
Audit No: Z56409
Tag: A048213
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src:
Date Received: 11/16/2006
Selected Flag: Yes
Abandonment Rec: Yes
Contractor: 5459
Form Version: 3
Owner:
Street Name: VAUGHAN YARD
County: YORK
Municipality: VAUGHAN TOWN (VAUGHAN TWP)
Site Info:
Lot: 018
Concession: 10
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 11761112
DP2BR:
Spatial Status:
Code OB: -
Code OB Desc: No formation data
Open Hole:
Cluster Kind:
Date Completed: 10/26/2006
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone:
East83:
North83:
Org CS:
UTMRC:
UTMRC Desc:
Location Method:

Annular Space/Abandonment Sealing Record

Plug ID: 933310297
Layer: 2
Plug From: 41.7
Plug To: 2
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 933310298
Layer: 3
Plug From: 2
Plug To: 0
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 933310296
Layer: 1
Plug From: 45
Plug To: 41.7
Plug Depth UOM: m

Pipe Information

Pipe ID: 11768802
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930893324
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From: 45
Depth To: 0
Casing Diameter: 15.24
Casing Diameter UOM: cm
Casing Depth UOM: m

Hole Diameter

Hole ID: 11847017
Diameter: 15.29
Depth From: 45
Depth To: 0
Hole Depth UOM: m
Hole Diameter UOM: cm

Site: lot 18 ON

Database:
WWIS

Well ID: 6714474
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 257922
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 6/20/2003
Selected Flag: Yes
Abandonment Rec:
Contractor: 2663
Form Version: 1
Owner:
Street Name:
County: WELLINGTON
Municipality: PEEL TOWNSHIP
Site Info:
Lot: 018
Concession:
Concession Name: CON
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10542319
DP2BR:
Spatial Status:
Code OB: o

Elevation:
Elevrc:
Zone: 17
East83:

Code OB Desc: Overburden
Open Hole:
Cluster Kind:
Date Completed: 6/10/2003
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock
Materials Interval

Formation ID: 932922171
Layer: 6
Color:
General Color:
Mat1: 11
Most Common Material: GRAVEL
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 190
Formation End Depth: 195
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 932922168
Layer: 3
Color: 6
General Color: BROWN
Mat1: 05
Most Common Material: CLAY
Mat2: 12
Other Materials: STONES
Mat3: 14
Other Materials: HARDPAN
Formation Top Depth: 68
Formation End Depth: 145
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 932922170
Layer: 5
Color: 6
General Color: BROWN
Mat1: 05
Most Common Material: CLAY
Mat2: 11
Other Materials: GRAVEL
Mat3:
Other Materials:
Formation Top Depth: 183
Formation End Depth: 190
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 932922169
Layer: 4
Color: 6
General Color: BROWN
Mat1: 28
Most Common Material: SAND
Mat2: 05
Other Materials: CLAY
Mat3:
Other Materials:
Formation Top Depth: 145
Formation End Depth: 183
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 932922166
Layer: 1
Color: 8
General Color: BLACK
Mat1: 02
Most Common Material: TOPSOIL
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 0
Formation End Depth: 2
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 932922167
Layer: 2
Color: 6
General Color: BROWN
Mat1: 05
Most Common Material: CLAY
Mat2: 14
Other Materials: HARDPAN
Mat3:
Other Materials:
Formation Top Depth: 2
Formation End Depth: 68
Formation End Depth UOM: ft

Annular Space/Abandonment
Sealing Record

Plug ID: 933240232
Layer: 1
Plug From: 0
Plug To: 20
Plug Depth UOM: ft

Method of Construction & Well
Use

Method Construction ID:
Method Construction Code: 4
Method Construction: Rotary (Air)
Other Method Construction:

Pipe Information

Pipe ID: 11090889
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930779174
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 195
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 996714474
Pump Set At:
Static Level: 50
Final Level After Pumping: 54
Recommended Pump Depth: 120
Pumping Rate: 16
Flowing Rate:
Recommended Pump Rate: 16
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: N

Draw Down & Recovery

Pump Test Detail ID: 934875227
Test Type: Draw Down
Test Duration: 45
Test Level: 54
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934614215
Test Type: Draw Down
Test Duration: 30
Test Level: 54
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934350768
Test Type: Draw Down
Test Duration: 15
Test Level: 54
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 935136286
Test Type: Draw Down
Test Duration: 60
Test Level: 54
Test Level UOM: ft

Water Details

Water ID: 934036121
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 195
Water Found Depth UOM: ft

Site: **BOLTON ON** **Database:**
WWIS

| | |
|---|--|
| Well ID: 4909998 | Data Entry Status: |
| Construction Date: | Data Src: |
| Primary Water Use: | Date Received: 12/20/2005 |
| Sec. Water Use: | Selected Flag: Yes |
| Final Well Status: Observation Wells | Abandonment Rec: |
| Water Type: | Contractor: 7201 |
| Casing Material: | Form Version: 3 |
| Audit No: Z41333 | Owner: |
| Tag: _NO_TAG | Street Name: HWY 50 |
| Construction Method: | County: PEEL |
| Elevation (m): | Municipality: CALEDON TOWN (BOLTON) |
| 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: | |

Bore Hole Information

| | |
|-------------------------------------|----------------------------|
| Bore Hole ID: 11323731 | Elevation: |
| DP2BR: | Elevrc: |
| Spatial Status: | Zone: |
| Code OB: o | East83: |
| Code OB Desc: Overburden | North83: |
| Open Hole: | Org CS: |
| Cluster Kind: | UTMRC: |
| Date Completed: 8/17/2005 | UTMRC Desc: |
| Remarks: | Location Method: na |
| Elevrc Desc: | |
| Location Source Date: | |
| Improvement Location Source: | |
| Improvement Location Method: | |
| Source Revision Comment: | |
| Supplier Comment: | |

Overburden and Bedrock
Materials Interval

Formation ID: 933021963
Layer: 3
Color: 2
General Color: GREY

Mat1: 05
Most Common Material: CLAY
Mat2: 06
Other Materials: SILT
Mat3:
Other Materials:
Formation Top Depth: 4.2
Formation End Depth: 8.2
Formation End Depth UOM: m

Overburden and Bedrock
Materials Interval

Formation ID: 933021961
Layer: 1
Color: 6
General Color: BROWN
Mat1: 01
Most Common Material: FILL
Mat2: 28
Other Materials: SAND
Mat3: 69
Other Materials: FINE-GRAINED
Formation Top Depth: 0
Formation End Depth: 0.9
Formation End Depth UOM: m

Overburden and Bedrock
Materials Interval

Formation ID: 933021962
Layer: 2
Color: 6
General Color: BROWN
Mat1: 06
Most Common Material: SILT
Mat2: 01
Other Materials: FILL
Mat3:
Other Materials:
Formation Top Depth: 0.9
Formation End Depth: 4.2
Formation End Depth UOM: m

Annular Space/Abandonment
Sealing Record

Plug ID: 933283602
Layer: 1
Plug From: 0
Plug To: 0.8
Plug Depth UOM: m

Method of Construction & Well
Use

Method Construction ID:
Method Construction Code: 6
Method Construction: Boring
Other Method Construction:

Pipe Information

Pipe ID: 11338586
Casing No: 1

Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930866784
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From:
Depth To:
Casing Diameter: 3.2
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 933416141
Layer: 1
Slot: 10
Screen Top Depth:
Screen End Depth:
Screen Material: 5
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter: 3.2

Hole Diameter

Hole ID: 11543600
Diameter: 20
Depth From: 0
Depth To: 8.2
Hole Depth UOM: m
Hole Diameter UOM: cm

Site:
con 12 ON

Database:
WWIS

Well ID: 6709490
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 34882
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 1/4/1989
Selected Flag: Yes
Abandonment Rec:
Contractor: 1804
Form Version: 1
Owner:
Street Name:
County: WELLINGTON
Municipality: PEEL TOWNSHIP
Site Info:
Lot:
Concession: 12
Concession Name: CON
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10473339
DP2BR:
Spatial Status:
Elevation:
Elevrc:
Zone: 17

Code OB: o
Code OB Desc: Overburden
Open Hole:
Cluster Kind:
Date Completed: 12/8/1988
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock
Materials Interval

Formation ID: 932643757
Layer: 2
Color: 6
General Color: BROWN
Mat1: 28
Most Common Material: SAND
Mat2: 05
Other Materials: CLAY
Mat3:
Other Materials:
Formation Top Depth: 2
Formation End Depth: 62
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 932643760
Layer: 5
Color: 6
General Color: BROWN
Mat1: 11
Most Common Material: GRAVEL
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 145
Formation End Depth: 160
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 932643758
Layer: 3
Color: 6
General Color: BROWN
Mat1: 11
Most Common Material: GRAVEL
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 62
Formation End Depth: 68
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 932643756
Layer: 1
Color: 8
General Color: BLACK
Mat1: 02
Most Common Material: TOPSOIL
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 0
Formation End Depth: 2
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 932643759
Layer: 4
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2:
Other Materials:
Mat3:
Other Materials:
Formation Top Depth: 68
Formation End Depth: 145
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID:
Method Construction Code: 2
Method Construction: Rotary (Convent.)
Other Method Construction:

Pipe Information

Pipe ID: 11021909
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930770572
Layer: 1
Material: 2
Open Hole or Material: GALVANIZED
Depth From:
Depth To: 160
Casing Diameter: 5
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930770573
Layer: 2
Material: 4

Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 160
Casing Diameter:
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 996709490
Pump Set At:
Static Level: 70
Final Level After Pumping: 130
Recommended Pump Depth: 145
Pumping Rate: 6
Flowing Rate:
Recommended Pump Rate: 4
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR: 2
Pumping Duration MIN: 0
Flowing: N

Draw Down & Recovery

Pump Test Detail ID: 934342716
Test Type: Recovery
Test Duration: 15
Test Level: 80
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 935138696
Test Type: Recovery
Test Duration: 60
Test Level: 70
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934617713
Test Type: Recovery
Test Duration: 30
Test Level: 72
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934870017
Test Type: Recovery
Test Duration: 45
Test Level: 70
Test Level UOM: ft

Water Details

Water ID: 933962911
Layer: 1
Kind Code: 1
Kind: FRESH

Water Found Depth: 148
Water Found Depth UOM: ft

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 2018

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

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-Jan 31, 2019

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 2017

Commercial Fuel Oil Tanks:

Provincial

CFOT

List of commercial underground fuel oil tanks made available by the Fuels Safety Program of the Technical Standards & Safety Authority (TSSA). Ontario Regulation 213/01 of the Technical Standards and Safety Act (2000) requires that all underground tanks be registered with the TSSA. Note: the Fuels Safety Division does not register waste oil tanks in apartments, office buildings, residences, etc., or aboveground gas or diesel tanks. Records are not verified for accuracy or completeness. This is not a comprehensive or complete inventory of commercial fuel tanks in the province. The TSSA updates information in its system on an ongoing basis; 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: Feb 28, 2017

Chemical Register:

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, 2019

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 - Mar 2019

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-May 2019

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-Jun 30, 2019

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 - Oct 2018

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-Jun 31, 2019

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-Jun 30, 2019

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-Jun 30, 2019

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-Apr 30, 2019

Environmental Issues Inventory System:

Federal [EIS](#)

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 EIS 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, 2018

List of TSSA Expired Facilities:

Provincial [EXP](#)

List of facilities and tanks - for which there was once a registration - no longer registered with the Fuels Safety Program of the Technical Standards and Safety Authority (TSSA). Includes private fuel outlets, bulk plants, fuel oil tanks, gasoline stations, marinas, propane filling stations, liquid fuel tanks, piping systems, etc. Tanks which have been removed from the ground are included in the expired facilities inventory held by the TSSA. Notes: the Fuels Safety Division did not register private fuel underground/aboveground storage tanks prior to January of 1990, or furnace oil tanks prior to May 1, 2002; nor does the Division register waste oil tanks in apartments, office buildings, residences, etc., or aboveground gas or diesel tanks. Records are not verified for accuracy or completeness. This is not a comprehensive or complete inventory of expired tanks/tank facilities in the province. The TSSA updates information in its system on an ongoing basis; this listing is hence limited by the record date provided here.

Government Publication Date: Feb 28, 2017

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.

Government Publication Date: Jun 2000-May 2019

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 2018

Fuel Storage Tank:

Provincial

FST

List of registered private and retail fuel storage tanks made available by the Fuels Safety Program of the Technical Standards & Safety Authority (TSSA). Ontario Regulation 213/01 of the Technical Standards and Safety Act (2000) requires that all underground tanks be registered with the TSSA. Notes: the Fuels Safety Division did not register private fuel underground/aboveground storage tanks prior to January of 1990, or furnace oil tanks prior to May 1, 2002; nor does the Division register waste oil tanks in apartments, office buildings, residences, etc., or aboveground gas or diesel tanks. Records are not verified for accuracy or completeness. This is not a comprehensive or complete inventory of fuel storage tanks/tank facilities in the province. The TSSA updates information in its system on an ongoing basis; this listing is hence limited by the record date provided here.

Government Publication Date: Feb 28, 2017

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-Mar 31, 2019

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 2017

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*

TSSA Incidents:

Provincial

INC

List of spills and leaks of diesel, fuel oil, gasoline, natural gas, propane, and hydrogen reported to the Spills Action Centre (SAC) and made available by the Technical Standards and Safety Authority (TSSA). Under the Technical Standards & Safety Act (2000), the TSSA regulates fuel suppliers, storage facilities, transport trucks, pipelines, contractors, and equipment or appliances that use fuels. Includes incidents from fuel-related hazards such as spills, fires, and explosions. Records are not verified for accuracy or completeness. This is not a comprehensive or complete inventory of fuel-related leaks, spills, and incidents in the province. The TSSA updates information in its system on an ongoing basis; this listing is hence limited by the record date provided here.

Government Publication Date: Feb 28, 2017

Landfill Inventory Management Ontario:

Provincial

LIMO

The Landfill Inventory Management Ontario (LIMO) database is updated every year, as the ministry compiles new and updated information. The inventory will include small and large landfills. Additionally, each year the ministry will request operators of the larger landfills complete a landfill data collection form that will be used to update LIMO and will include the following information from the previous operating year. This will include additional information such as 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 will 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-Jan 2019

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, 2017

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 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-Dec 31, 2018

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-May 31, 2019

Ontario Oil and Gas Wells:

Provincial

OGGW

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-May 2018

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-Jun 30, 2019

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: 1988-Mar 2019

TSSA Pipeline Incidents:

Provincial [PINC](#)

List of pipeline incidents (strikes, leaks, spills) made available by the Technical Standards and Safety Authority (TSSA). Under the Technical Standards & Safety Act (2000), 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 pipeline incidents in the province. The TSSA updates information in its system on an ongoing basis; this listing is hence limited by the record date provided here.

Government Publication Date: Feb 28, 2017

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-Jun 30, 2019

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: 1986-2016

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-May 2019

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-Jan 31, 2019

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**

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-Feb 2019

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, 2017

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-Aug 2018

TSSA Variances for Abandonment of Underground Storage Tanks:

Provincial **VAR**

List of variances granted for abandoned tanks. Under the Technical Standards and Safety Authority (TSSA) Liquid Fuels Handling Code and Fuel Oil Code, all 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. This is not a comprehensive or complete inventory of tank variances in the province. The TSSA updates information in its system on an ongoing basis; this listing is hence limited by the record date provided here.

Government Publication Date: Feb 28, 2017

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-Jun 31, 2019

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: Feb 28, 2019

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

Ministry of Environment, Conservations and Parks – FOI



Freedom of Information and Protection of Privacy Office
40 St. Clair Avenue West, 12th Floor
Toronto ON M4V 1M2
Telephone 416 314-4075

Instructions

Use this form to request records that are in the Ministry's files on environmental concerns related to properties. Our fax number is 416 314-4285.

For Ministry Use Only

FOI Request Number, Date Request Received (yyyy/mm/dd), Fee Paid (Cheque, VISA/MC, Cash/Money Order), and checkboxes for CNR, ER, NOR, SWR, WCR, IEB, EAA, EMR, SCB, SDW.

1. Requester Data

Last Name: MITZAKOV, First Name: ROBERT, Middle Initial, Title: PROJECT ENGINEER, Company Name: SNC-LAVALIN

Mailing Address

Unit Number, Street Number: 195, Street Name: THE WEST MALL, PO Box, City/Town: TORONTO, Province: ON, Postal Code: M9C 5K1, Email Address: robert.mitzakov@snc-lavalin.com, Telephone Number: 416-635-5882 ext. 55805, Fax Number: 416-635-5353

Project/Reference Number: 665125, Signature of Requester: Robert Mitzakov

2. Request Parameters

Municipal Address (Municipal address mandatory for cities, towns or regions)

Unit Number, Street Number: 10192, Street Name: Highway 50, PO Box, Lot Number: 12, Concession: 11, Geographic Township: TORONTO GORE, City/Town/Village: BRAMPTON, Province: ON, Postal Code: L6P 6G4

Present Property

1. Owner: MR. JAMES F. JOHNSTON, Date of Ownership: 1993/03/02, Tenant (if applicable)

Previous Property

1. Owner, Date of Ownership, Tenant (if applicable)

3. Search Parameters

| Search Parameters | Specify Year(s) Requested |
|---|----------------------------------|
| Environmental concerns (General correspondence, occurrence reports, abatement) | Please provide all years ↓ |
| Orders | |
| Spills | |
| Investigations/prosecutions ► Owner and tenant information must be provided | |
| Waste Generator number/classes | |
| Files older than 2 years may require \$60.00 retrieval cost. There is no guarantee that records responsive to your request will be located. | |

4. Environmental Compliance Approvals/Certificates of Approval

| Environmental Compliance Approvals/Certificates of Approval | SD | Specify Year(s) Requested |
|--|--------------------------|---------------------------|
| air - emissions | <input type="checkbox"/> | |
| renewable energy | <input type="checkbox"/> | |
| water - mains, treatment, ground level, standpipes & elevated storage, pumping stations (local & booster) | <input type="checkbox"/> | |
| sewage - sanitary, storm, treatment, stormwater, leachate & leachate treatment & sewage pump stations | <input type="checkbox"/> | |
| waste water - industrial discharge | <input type="checkbox"/> | |
| waste sites - disposal, landfill sites, transfer stations, processing sites, incinerator sites | <input type="checkbox"/> | |
| waste systems - haulers: sewage, non-hazardous & hazardous waste, mobile waste processing units, PCB destruction | <input type="checkbox"/> | |

Proponent information must be provided and Environmental Compliance Approval/Certificate of Approval number(s) (if known). 1985 and prior records are searched manually. Search fees in excess of \$300.00 may be incurred, depending on the types and years to be searched. Specify Approval number(s) (if known). If supporting documents are also required, mark SD box and specify type e.g. maps, plans, reports, etc.

Ministry of the Environment,
Conservation and Parks

Ministère de l'Environnement, de
la Protection de la nature et des
Parcs

Access and Privacy Office

12th Floor
40 St. Clair Avenue West
Toronto ON M4V 1M2
Tel: (416) 314-4075
Fax: (416) 314-4285

Bureau de l'accès à l'information et
de la protection de la vie privée

12^e étage
40, avenue St. Clair ouest
Toronto ON M4V 1M2
Tél. : (416) 314-4075
Télééc.: (416) 314-4285



June 20, 2019

Robert Mitzakov
SNC-Lavalin
195 The West Mall
Toronto, ON M9C 5K1

Dear Robert Mitzakov:

RE: ***Freedom of Information and Protection of Privacy Act Request***
Our File # A-2019-04216, Your Reference 665125

The Ministry is in receipt of your request made pursuant to the *Freedom of Information and Protection of Privacy Act* and has received your payment in the amount of \$5.00 (non-refundable application fee), along with your \$30.00 deposit.

The search is being conducted on the following: 10192 Highway 50, Brampton. If there is any discrepancy please contact us immediately.

You may expect a reply or additional communication as your request is processed. For your information, the Ministry charges for search, copying and preparation time.

If you have any questions regarding this matter, please contact Victoria Partosa at victoria.partosa@ontario.ca.

Yours truly,


Janet Dadufalza
Manager, Access and Privacy

Ministry of the Environment,
Conservation and Parks

Ministère de l'Environnement, de
la Protection de la nature et des
Parcs



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12th Floor
40 St. Clair Avenue West
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de la protection de la vie privée
12^e étage
40, avenue St. Clair ouest
Toronto ON M4V 1M2
Tél. : (416) 314-4075

July 19, 2019

Robert Mitzakov
SNC-Lavalin
195 The West Mall
Toronto, ON M9C 5K1

Dear Robert Mitzakov:

**RE: *Freedom of Information and Protection of Privacy Act* Request
Our File #: A-2019-04216, Your Reference #: 665125**

This letter is in response to your request made pursuant to the *Freedom of Information and Protection of Privacy Act* relating to 10192 Highway 50, Brampton.

After a thorough search of the Ministry's Halton Peel District Office, Investigations and Enforcement Branch, Environmental Monitoring and Reporting Branch, Sector Compliance Branch and Safe Drinking Water Branch, records were located in response to your request. It is my decision to provide partial access to the attached information as identifying information pertaining to private individuals has been removed to protect privacy (Section 21 of the Act).

In accordance with Section 57 of the *Freedom of Information and Protection of Privacy Act*, detailed below are our charges:

| | |
|--|-----------------------|
| • Search Time 1 hour @ \$30/hour | \$ 30.00 |
| • Copying 2 pages @ \$0.20/page | \$ 0.40 |
| • Preparation Time 0.03 hour @ \$30/hour | \$ 0.90 |
| • Delivery | \$ 3.00 |
| • Total | <hr/> \$ 34.30 |
| • Deposit Received | - \$ 30.00 |
| • BALANCE WAIVED (NOT REQUIRED) | <hr/> \$ 4.30 |

You may request a review of my decision by contacting the Information and Privacy Commissioner/Ontario, 2 Bloor Street East, Suite 1400, Toronto, ON M4W 1A8 (800-387-0073 or 416-326-3333). Please note that there is a \$25.00 fee and you only have 30 days from receipt of this letter to request a review.

If you have any questions regarding this matter, please contact Erin Nam at 416-325-1664.

Yours truly,

for 

Janet Dadufalza
Manager, Access and Privacy

Attachments



OCCURENCE REPORT

| | | | |
|--|-------------------------------|---|--------------------------|
| Location of Occurrence: BRAMPTON CITY JOANSON FARM HIGHWAY 50, NORTH OF HIGHWAY 7 Reg: 3 Dist: HP Municipality: 21101 | | Source: TRANSPORT TRUCK 8 GOLDEN GATE, SCARBOROUGH 321-2103 Sector: TA Source: TP SIC: 4560 UTM: N: [] E: [] Zone: [] | |
| Entered: 1992/11/08 16:10 | ORIS No. 9230001620 | Abstracts: | Diaries: |
| Received By: KATHLEEN KLINCK | | Batch: 757 | I. E. B. No. |
| Occurrence Type: S | Subtype: L | Occurrence Date: | 1992/08/18 |
| Work Plan: | | Occurrence Time: | 05:00 |
| [REDACTED] | | Report to MOE : 1992/08/18 11:10 | |
| | | MOE at Scene : | |
| | | Assigned To: | BRIAN BOUDREAU |
| Address: 10192 HIGHWAY 50 BRAMPTON Postal Code: | | ERP Contacted: Callout: [] NSP: [N] ERP Name: | |
| Syn: BACKENTRY - 80 L DIESEL FUEL TO SOIL FROM OVERTURNED TRUCK. | | | |
| Brief Summary: CALLER REPORTED 20 GALLONS DIESEL FUEL TO GRAZING LAND FROM OVERTURNED TRUCK. O.P.P., F.D. & MOA AT SCENE. JOE MOORE, PEEL REGION STATED FUEL SPILL RESULT OF ACCIDENT ON ROAD & THAT NO MIGRATION POSSIBLE. FARM OWNER DOES NOT FEEL QUANTITY SIGNIFICANT ENOUGH TO HAVE REMOVED. O.P.P. CONTACT: OFFICER ARCER, 1-800-263-2277. | | | |
| If there are related reports, record initial/master ORIS No. here >> 9212673 | | | |
| Followup Action: Abatement IEB Other BF Date: NO FURTHER ACTION REQUIRED. | | | |
| File Closed: X Abatement: IEB Other Suspected Violation: | | | |
| Report Prepared By: BRIAN BOUDREAU | | Date: 18/08/92 | IEB Investigator: |
| Approving Officer: ROBERT ADCOCK | | Date: 02/09/92 | IEB BF Date: |
| Reviewing Officer: | | Date: | |
| Specify number(s) for routing Original [] [] [] [] [] Continued [] Yes Specify number(s) for copy distribution [] [] [] [] [] [] | | | |
| 1. Investigator/E.O. | 2. D. O. /File | 3. SAC (initial spills) | 7. Other _____ |
| 4. Reg. Dir. / _____ Mgr. | 5. IEB Reg. Spv | 6. IEB H.O./file | |
| SAC Action Class: 1:25 2: | | | |

s.21

| | |
|---|---|
| Material 1: DIESEL FUEL Amount : 80 L | Code : 13 UN No.: 1202 |
| Material 2: Amount : | Code : |
| Material 3: | UN No.: |
| | Code : |

| | | |
|--|--|---|
| Amount : | | UN No.: |
| Cause. : | | Code. . : 07 |
| Reason. : | | Code. . : 99 |
| Person In Control: UNKNOWN | | Waste GenNum : |
| Owner : UNKNOWN | | Waste GenNum : |
| Agencies Involved . . . : REGION OF PEEL | | |
| Clean up and Restoration Carried out by: | | |
| <input checked="" type="checkbox"/> Controller | <input checked="" type="checkbox"/> Owner | <input type="checkbox"/> Other REGION OF PEEL |
| N | N | |
| % Cleaned up: | Estimated Cost: | |
| Were Directions or Approval Given Under | | |
| EPA Part X <input checked="" type="checkbox"/> | Regulation 362 <input checked="" type="checkbox"/> | Manifest No. |
| Waste Class : | Code . . : 000 | |
| Hauler : | Code . . : | |
| Disposal Site : | Code . . : | |
| Environmental Impact: | Nature of Impact: | |
| N | Soil contamination | Code . . : 07 |
| People/Business Damaged | | |
| (Other than to Owner/Controller) : NIL | | |
| Nature of Damage: | | Code . . : |

Appendix F

Municipal Directories

ERIS
ENVIRONMENTAL RISK INFORMATION SERVICES



CITY
DIRECTORY

Project Property: *10192 Highway 50, Brampton, ON*
Report Type: *City Directory*
Order No: *20190508200*
Information Source: *Polk's Halton/Peel Regions, ON Criss Cross Directory*
Date Completed: *May 16, 2019*

City Directory Information Source



Polk's Halton/Peel Regions, ON Criss Cross Directory

| | |
|------------------------------------|--------------------------------|
| PROJECT NUMBER: 20190508200 | |
| Site Address: | 10192 Highway 50, Brampton, ON |
| | |
| Year: 2000 | |
| | |
| Site Listing: | -Address Not Listed |
| | |
| Adjacent Properties: | |
| | |
| 2 Cadetta Road | -Address Not Listed |
| | |
| 9 Cadetta Road | -Address Not Listed |
| | |
| 10 Cadetta Road | -Address Not Listed |
| | |
| 12 Cadetta Road | -Address Not Listed |
| | |
| 14 Cadetta Road | -Address Not Listed |
| | |
| 16 Cadetta Road | -Address Not Listed |
| | |
| 18 Cadetta Road | -Address Not Listed |
| | |

| | |
|------------------------|---------------------|
| 20 Cadetta Road | -Address Not Listed |
| | |
| 22 Cadetta Road | -Address Not Listed |
| | |
| 24 Cadetta Road | -Address Not Listed |

| | |
|------------------------------------|---|
| PROJECT NUMBER: 20190508200 | |
| Site Address: | 10192 Highway 50, Brampton, ON |
| | |
| Year: 1994 | |
| | |
| Site Listing: | -Address Not Listed |
| | |
| Adjacent Properties: | |
| | |
| 2 Cadetta Road | -Address Not Listed |
| | |
| 9 Cadetta Road | -Rexdale Cement Finishers Ltd |
| | |
| 10 Cadetta Road | -Alta Cranes Ltd -Maplecrete Construction Co Ltd |
| | |
| 12 Cadetta Road | -Cedar Mills Welding & Fabrication Ltd |

| | |
|------------------------|---|
| | <ul style="list-style-type: none"> -Chemello Contractors -Futuristic Touch Auto Collision -Fred's Repair -Orkel Contracting Ltd -Speed Sport Auto Repair |
| | |
| 14 Cadetta Road | <ul style="list-style-type: none"> -D D Tool & Machine Co -Time & Precision Co Ltd |
| | |
| 16 Cadetta Road | -Avenue Structures |
| | |
| 18 Cadetta Road | -Tristar Coatings Ltd |
| | |
| 20 Cadetta Road | <ul style="list-style-type: none"> -Delform Construction Ltd -Quality Fabricating & Machining Ltd |
| | |
| 22 Cadetta Road | -Pilen Construction Of Canada Ltd |
| | |
| 24 Cadetta Road | <ul style="list-style-type: none"> -Fence All -Roma Fence |

| | |
|------------------------------------|--------------------------------|
| PROJECT NUMBER: 20190508200 | |
| Site Address: | 10192 Highway 50, Brampton, ON |
| | |

| | |
|-----------------------------|---|
| Year: 1989 | |
| | |
| Site Listing: | -Address Not Listed |
| | |
| Adjacent Properties: | |
| | |
| 2 Cadetta Road | -Address Not Listed |
| | |
| 9 Cadetta Road | -Rexdale Cement Finishers Ltd -Highpoint Garage Ltd |
| | |
| 10 Cadetta Road | -Alta Cranes Ltd -Newcrete Construction Co |
| | |
| 12 Cadetta Road | -Address Not Listed |
| | |
| 14 Cadetta Road | -D D Tool & Machine Co |
| | |
| 16 Cadetta Road | -Address Not Listed |
| | |
| 18 Cadetta Road | -Wedgeloc Industries Ltd |
| | |
| 20 Cadetta Road | -F & J Sales Co Ltd -Pedrix Technologies -Quality Fabricating & Machining Ltd |

| | |
|------------------------|-----------------------------------|
| | |
| 22 Cadetta Road | -Pilen Construction Of Canada Ltd |
| | |
| 24 Cadetta Road | -Address Not Listed |

| | |
|------------------------------------|--------------------------------|
| PROJECT NUMBER: 20190508200 | |
| Site Address: | 10192 Highway 50, Brampton, ON |
| | |
| Year: 1983 | |
| | |
| Site Listing: | -Address Not Listed |
| | |
| Adjacent Properties: | |
| | |
| 2 Cadetta Road | -Address Not Listed |
| | |
| 9 Cadetta Road | -Address Not Listed |
| | |
| 10 Cadetta Road | -Address Not Listed |
| | |
| 12 Cadetta Road | -Address Not Listed |
| | |
| 14 Cadetta Road | -Address Not Listed |

| | |
|------------------------|---------------------|
| | |
| 16 Cadetta Road | -Address Not Listed |
| | |
| 18 Cadetta Road | -Address Not Listed |
| | |
| 20 Cadetta Road | -Address Not Listed |
| | |
| 22 Cadetta Road | -Address Not Listed |
| | |
| 24 Cadetta Road | -Address Not Listed |

| | |
|------------------------------------|--------------------------------|
| PROJECT NUMBER: 20190508200 | |
| Site Address: | 10192 Highway 50, Brampton, ON |
| | |
| Year: 1977-1978 | |
| | |
| Site Listing: | -Address Not Listed |
| | |
| Adjacent Properties: | |
| | |
| 2 Cadetta Road | -Address Not Listed |
| | |
| 9 Cadetta Road | -Address Not Listed |

| | |
|------------------------|---------------------|
| | |
| 10 Cadetta Road | -Address Not Listed |
| | |
| 12 Cadetta Road | -Address Not Listed |
| | |
| 14 Cadetta Road | -Address Not Listed |
| | |
| 16 Cadetta Road | -Address Not Listed |
| | |
| 18 Cadetta Road | -Address Not Listed |
| | |
| 20 Cadetta Road | -Address Not Listed |
| | |
| 22 Cadetta Road | -Address Not Listed |
| | |
| 24 Cadetta Road | -Address Not Listed |

| | |
|------------------------------------|--------------------------------|
| PROJECT NUMBER: 20190508200 | |
| Site Address: | 10192 Highway 50, Brampton, ON |
| | |
| Year: 1972-1973 | |
| | |
| Site Listing: | -Address Not Listed |

| | |
|-----------------------------|---------------------|
| | |
| Adjacent Properties: | |
| | |
| 2 Cadetta Road | -Address Not Listed |
| | |
| 9 Cadetta Road | -Address Not Listed |
| | |
| 10 Cadetta Road | -Address Not Listed |
| | |
| 12 Cadetta Road | -Address Not Listed |
| | |
| 14 Cadetta Road | -Address Not Listed |
| | |
| 16 Cadetta Road | -Address Not Listed |
| | |
| 18 Cadetta Road | -Address Not Listed |
| | |
| 20 Cadetta Road | -Address Not Listed |
| | |
| 22 Cadetta Road | -Address Not Listed |
| | |
| 24 Cadetta Road | -Address Not Listed |

| | |
|------------------------------------|--------------------------------|
| PROJECT NUMBER: 20190508200 | |
| Site Address: | 10192 Highway 50, Brampton, ON |
| | |
| Year: 1966 | |
| | |
| Site Listing: | -Address Not Listed |
| | |
| Adjacent Properties: | |
| | |
| 2 Cadetta Road | -Address Not Listed |
| | |
| 9 Cadetta Road | -Address Not Listed |
| | |
| 10 Cadetta Road | -Address Not Listed |
| | |
| 12 Cadetta Road | -Address Not Listed |
| | |
| 14 Cadetta Road | -Address Not Listed |
| | |
| 16 Cadetta Road | -Address Not Listed |
| | |
| 18 Cadetta Road | -Address Not Listed |
| | |
| 20 Cadetta Road | -Address Not Listed |
| | |

| | |
|------------------------|---------------------|
| 22 Cadetta Road | -Address Not Listed |
| | |
| 24 Cadetta Road | -Address Not Listed |

| | |
|------------------------------------|--------------------------------|
| PROJECT NUMBER: 20190508200 | |
| Site Address: | 10192 Highway 50, Brampton, ON |
| | |
| Year: 1958 | |
| | |
| Site Listing: | -Address Not Listed |
| | |
| Adjacent Properties: | |
| | |
| 2 Cadetta Road | -Address Not Listed |
| | |
| 9 Cadetta Road | -Address Not Listed |
| | |
| 10 Cadetta Road | -Address Not Listed |
| | |
| 12 Cadetta Road | -Address Not Listed |
| | |
| 14 Cadetta Road | -Address Not Listed |
| | |

| | |
|------------------------|---------------------|
| 16 Cadetta Road | -Address Not Listed |
| | |
| 18 Cadetta Road | -Address Not Listed |
| | |
| 20 Cadetta Road | -Address Not Listed |
| | |
| 22 Cadetta Road | -Address Not Listed |
| | |
| 24 Cadetta Road | -Address Not Listed |

-All listings for businesses were listed as they are in the city directory.

-Listings that are residential are listed as “residential” with the number of tenants. The name of the residential tenant is not listed in the above city directory.

Appendix G

Technical Standards & Safety Authority – Correspondence

Mitzakov, Robert

From: Public Information Services <publicinformationsservices@tssa.org>
Sent: June 17, 2019 9:40 AM
To: Mitzakov, Robert
Subject: RE: TSSA Database search - 10192 Highway 50, Brampton, ON

Hello Robert,

Thank you for your request for confirmation of public information.

We confirm that there are no records in our database of any fuel storage tanks at the subject addresses.

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 publicinformationsservices@tssa.org or through mail along with a fee of \$56.50 (including HST) per location. The fee is payable with credit card (Visa or MasterCard) or with a Cheque made payable to TSSA.

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,

Yalini



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: publicinformationsservices@tssa.org

www.tssa.org



From: Mitzakov, Robert <Robert.Mitzakov@snclavalin.com>
Sent: June 14, 2019 3:13 PM
To: Public Information Services <publicinformationsservices@tssa.org>
Subject: TSSA Database search - 10192 Highway 50, Brampton, ON

Hello,

I would like to inquire if there are any records in the TSSA database for the following properties:

- 10192 Highway 50, Brampton, ON
- 2 Cadetta Road, Brampton, ON
- 4 Cadetta Road, Brampton, ON
- 6 Cadetta Road, Brampton, ON
- 8 Cadetta Road, Brampton, ON
- 10 Cadetta Road, Brampton, ON

- 12 Cadetta Road, Brampton, ON
- 14 Cadetta Road, Brampton, ON
- 16 Cadetta Road, Brampton, ON
- 20 Cadetta Road, Brampton, ON
- 24 Cadetta Road, Brampton, ON
- 26 Cadetta Road, Brampton, ON

If there are records associated with any of these addresses, could you please provide a quote to obtain the records?

Thank you,

Robert Mitzakov, *M.A.Sc., P.Eng.*

Project Engineer

Environment & Geoscience

Infrastructure

Tel.: +1(416)635-5882 x 55805

SNC-Lavalin

195 The West Mall

Toronto | Ontario | Canada | M9C 5K1



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This electronic message and any attached documents are intended only for the named recipients. This communication from the Technical Standards and Safety Authority may contain information that is privileged, confidential or otherwise protected from disclosure and it must not be disclosed, copied, forwarded or distributed without authorization. If you have received this message in error, please notify the sender immediately and delete the original message.

Appendix H

Aerial Photographs



SOURCE(S):
 1. ECOLOG ERIS, AERIAL PHOTOGRAPH, A10117-68,
 1946



| | | | |
|------------------|--------|---|---------------|
| Client/Location: | | CITY OF BRAMPTON 10192 HIGHWAY 50, BRAMPTON, ON | |
| Project No: | 665125 | Filename: | 002FH1_665125 |
| Drawn: | AG | Verified: | RM |

| | | | |
|------------------|--------------|-----------------------------|------------|
| Title: | | AERIAL PHOTOGRAPH (1946) | |
| Date: | OCTOBER 2019 | Dwg No: | FIGURE H.1 |
| Project Manager: | AY | | |

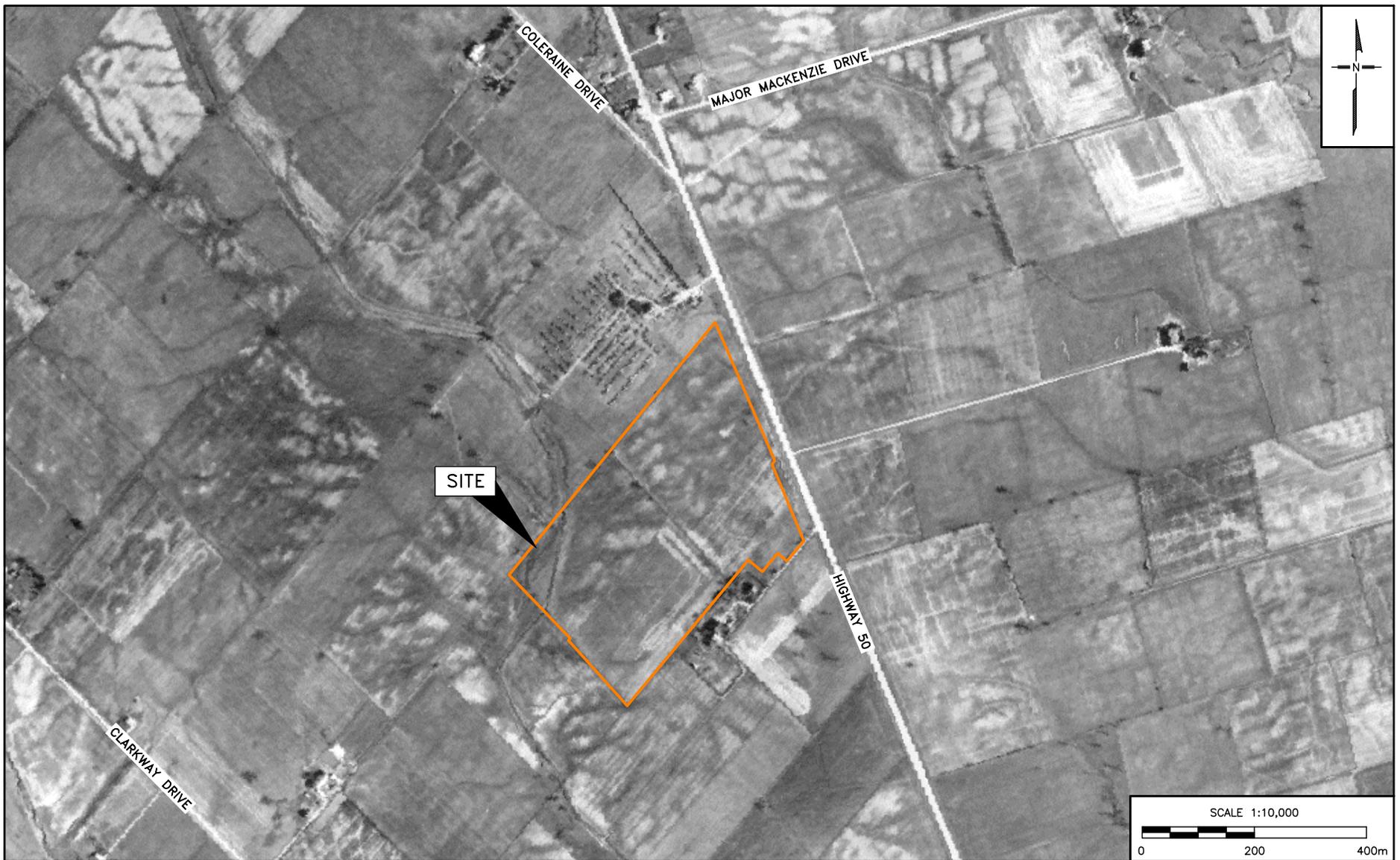


SOURCE(S):
 1. ECOLOG ERIS, AERIAL PHOTOGRAPH, A13118-127, 1951



| | | | |
|------------------|--------|---|---------------|
| Client/Location: | | CITY OF BRAMPTON 10192 HIGHWAY 50, BRAMPTON, ON | |
| Project No: | 665125 | Filename: | 002FH2_665125 |
| Drawn: | AG | Verified: | RM |

| | | | |
|------------------|--------------|-----------------------------|------------|
| Title: | | AERIAL PHOTOGRAPH (1951) | |
| Date: | OCTOBER 2019 | Dwg No: | FIGURE H.2 |
| Project Manager: | AY | | |

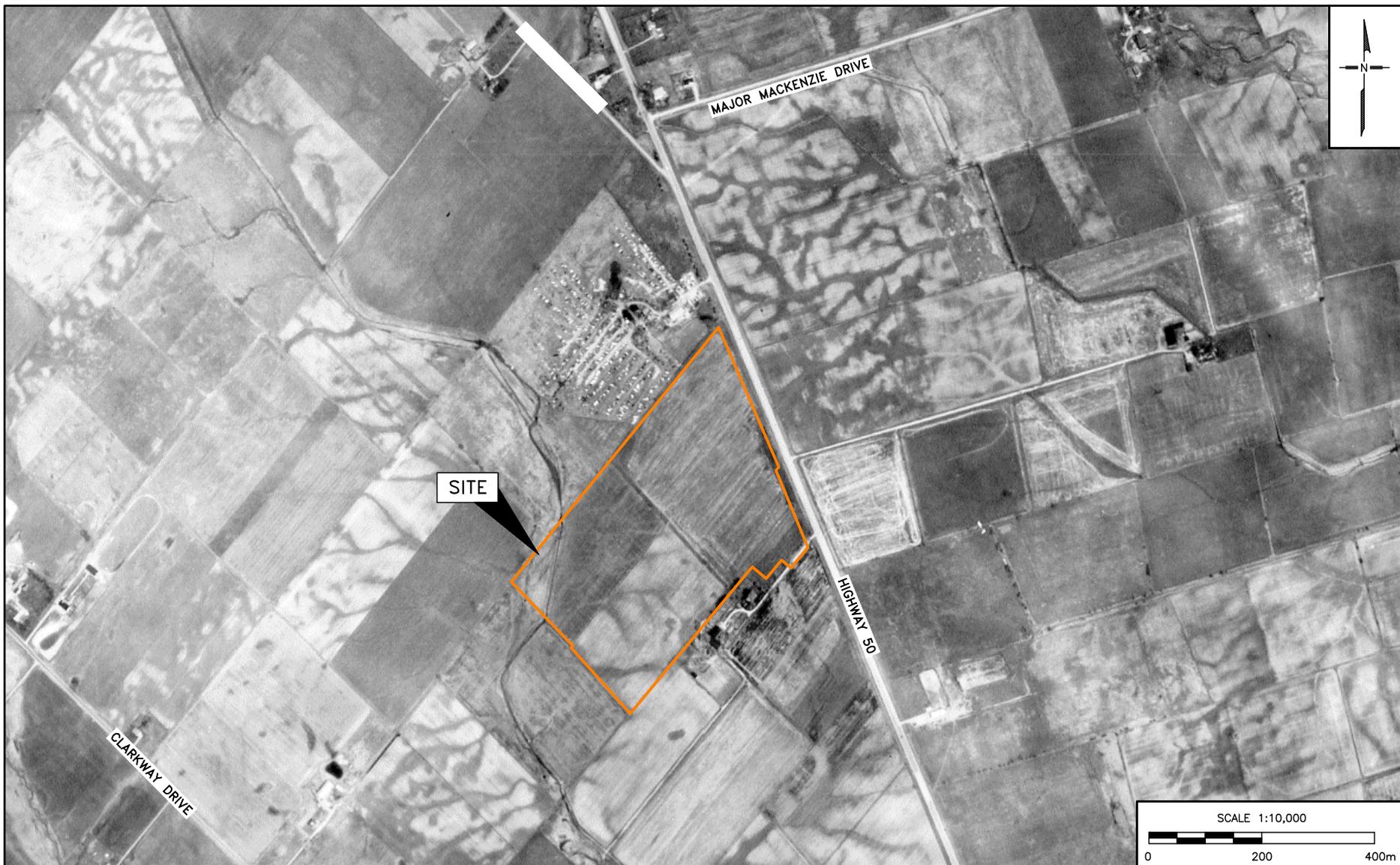


SOURCE(S):
 1. ECOLOG ERIS, AERIAL PHOTOGRAPH, A16997-5,
 1960



| | | | |
|------------------|--------|---|---------------|
| Client/Location: | | CITY OF BRAMPTON 10192 HIGHWAY 50, BRAMPTON, ON | |
| Project No: | 665125 | Filename: | 002FH3_665125 |
| Drawn: | AG | Verified: | RM |

| | | | |
|------------------|--------------|-----------------------------|------------|
| Title: | | AERIAL PHOTOGRAPH (1960) | |
| Date: | OCTOBER 2019 | Dwg No: | FIGURE H.3 |
| Project Manager: | AY | | |

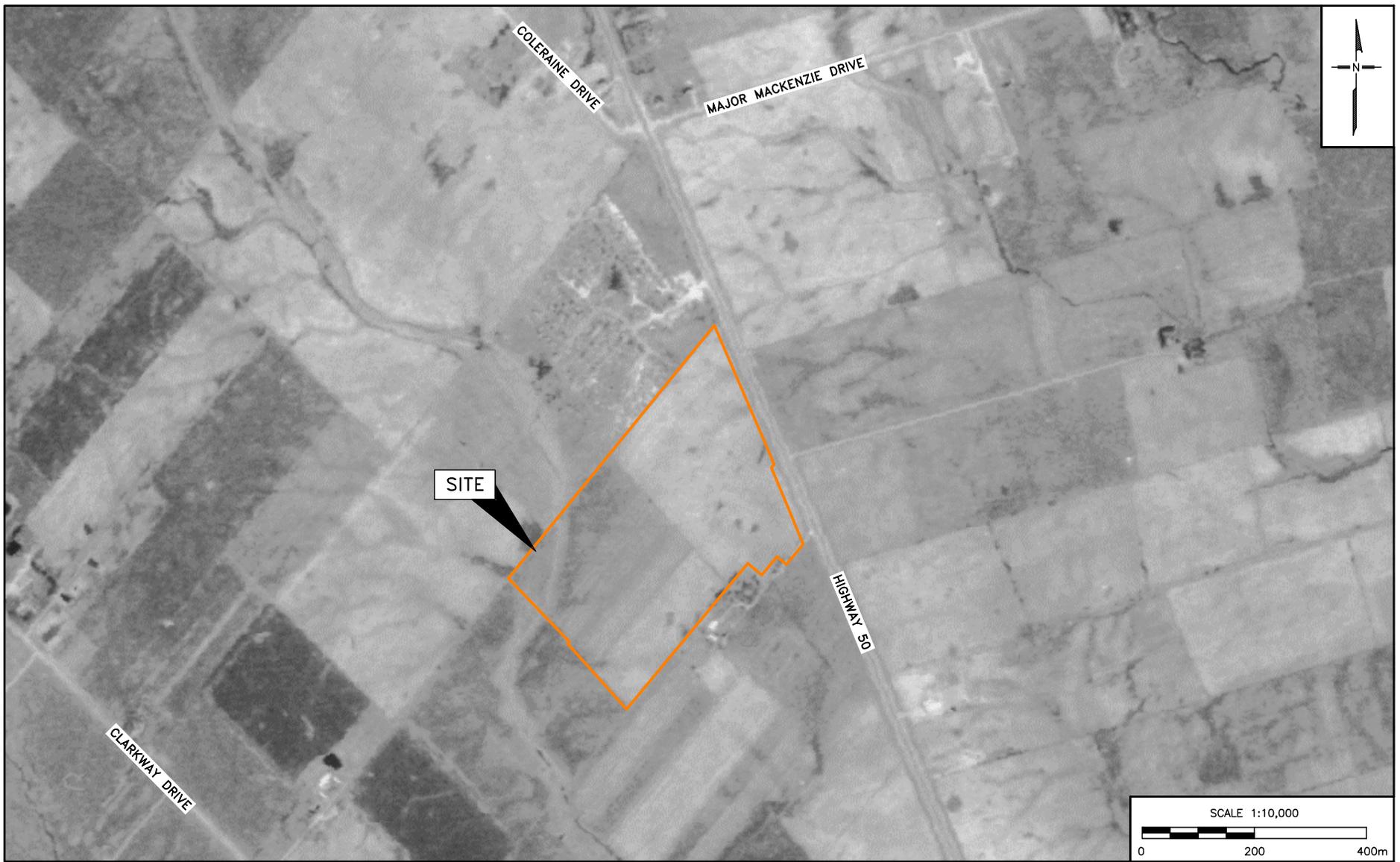


SOURCE(S):
 1. ECOLOG ERIS, AERIAL PHOTOGRAPH, A20263-78, 1969



| | | | |
|------------------|--------|---|---------------|
| Client/Location: | | CITY OF BRAMPTON 10192 HIGHWAY 50, BRAMPTON, ON | |
| Project No: | 665125 | Filename: | 002FH4_665125 |
| Drawn: | AG | Verified: | RM |

| | | | |
|------------------|--------------|-----------------------------|------------|
| Title: | | AERIAL PHOTOGRAPH (1969) | |
| Date: | OCTOBER 2019 | Dwg No: | FIGURE H.4 |
| Project Manager: | AY | | |

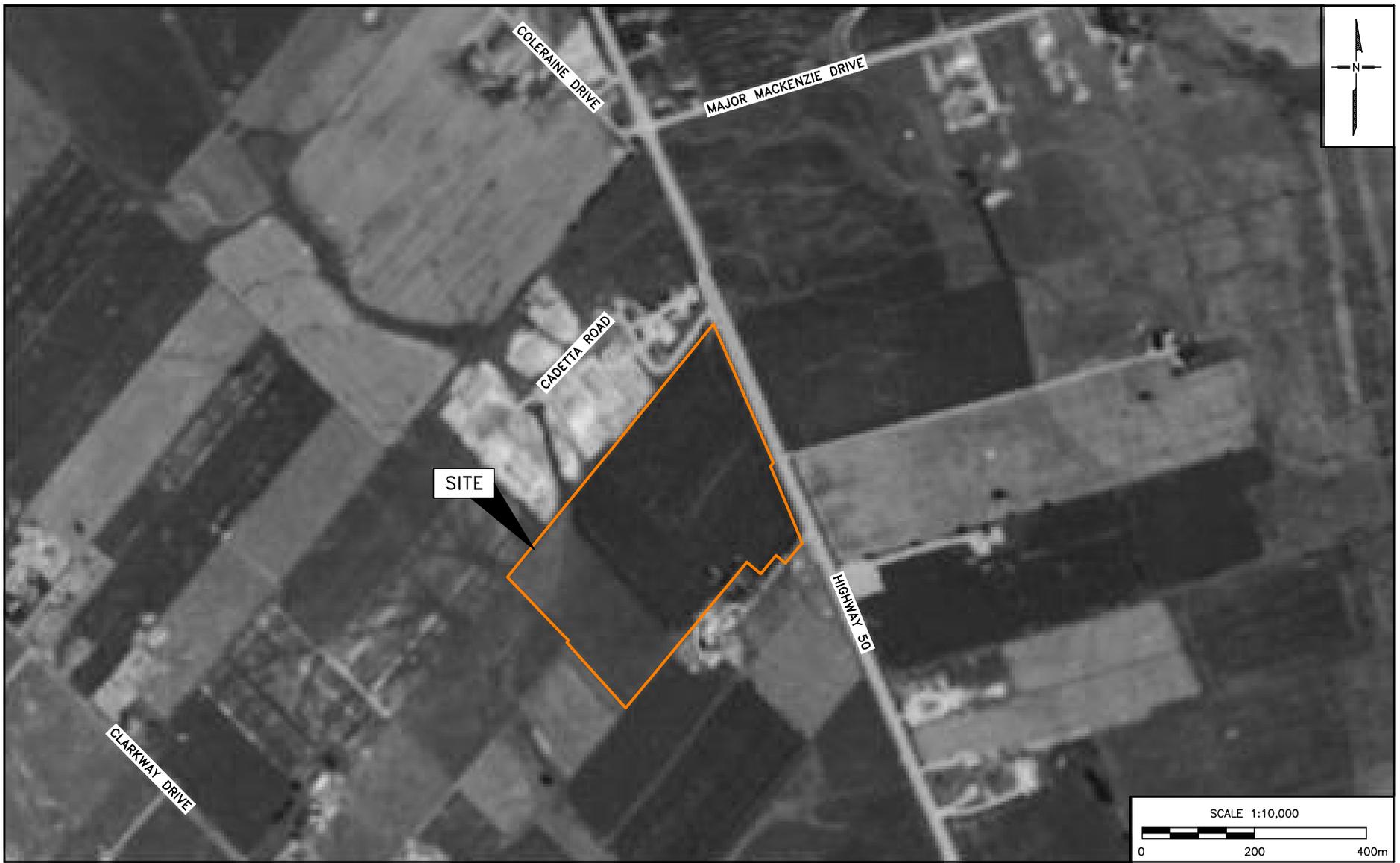


SOURCE(S):
 1. ECOLOG ERIS, AERIAL PHOTOGRAPH, A24319-92,
 1976



| | | | |
|------------------|--------|---|---------------|
| Client/Location: | | CITY OF BRAMPTON 10192 HIGHWAY 50, BRAMPTON, ON | |
| Project No: | 665125 | Filename: | 002FH5_665125 |
| Drawn: | AG | Verified: | RM |

| | | | |
|------------------|--------------|-----------------------------|------------|
| Title: | | AERIAL PHOTOGRAPH (1976) | |
| Date: | OCTOBER 2019 | Dwg No: | FIGURE H.5 |
| Project Manager: | AY | | |



SOURCE(S):
 1. ECOLOG ERIS, AERIAL PHOTOGRAPH, A31404-105,
 1985



Client/Location: CITY OF BRAMPTON
 10192 HIGHWAY 50,
 BRAMPTON, ON

| | | | |
|-------------|--------|-----------|---------------|
| Project No: | 665125 | Filename: | 002FH6_665125 |
| Drawn: | AG | Verified: | RM |

Title: AERIAL PHOTOGRAPH
 (1985)

| | | | |
|------------------|--------------|---------|------------|
| Date: | OCTOBER 2019 | Dwg No: | FIGURE H.6 |
| Project Manager: | AY | | |



SOURCE(S):
 1. CITY OF BRAMPTON, ONLINE MAP, AERIAL PHOTOGRAPH, 1994



| | | | |
|------------------|--------|---|---------------|
| Client/Location: | | CITY OF BRAMPTON 10192 HIGHWAY 50, BRAMPTON, ON | |
| Project No: | 665125 | Filename: | 002FH7_665125 |
| Drawn: | AG | Verified: | RM |

| | | | |
|------------------|--------------|-----------------------------|------------|
| Title: | | AERIAL PHOTOGRAPH (1994) | |
| Date: | OCTOBER 2019 | Dwg No: | FIGURE H.7 |
| Project Manager: | AY | | |



SOURCE(S):
 1. CITY OF BRAMPTON, ONLINE MAP, AERIAL PHOTOGRAPH, SPRING 2005



Client/Location: CITY OF BRAMPTON
 10192 HIGHWAY 50,
 BRAMPTON, ON

Title: AERIAL PHOTOGRAPH
 (2005)

Project No: 665125 Filename: 002FH8_665125

Date: OCTOBER 2019 Dwg No: FIGURE H.8

Drawn: AG Verified: RM

Project Manager: AY



SOURCE(S):
 1. CITY OF BRAMPTON, ONLINE MAP, AERIAL PHOTOGRAPH, SPRING 2015



| | | | |
|------------------|--------|---|---------------|
| Client/Location: | | CITY OF BRAMPTON 10192 HIGHWAY 50, BRAMPTON, ON | |
| Project No: | 665125 | Filename: | 002FH9_665125 |
| Drawn: | AG | Verified: | RM |

| | | | |
|------------------|--------------|-----------------------------|------------|
| Title: | | AERIAL PHOTOGRAPH (2015) | |
| Date: | OCTOBER 2019 | Dwg No: | FIGURE H.9 |
| Project Manager: | AY | | |



SOURCE(S):
1. GOOGLE EARTH PRO IMAGE, MARCH 7, 2018

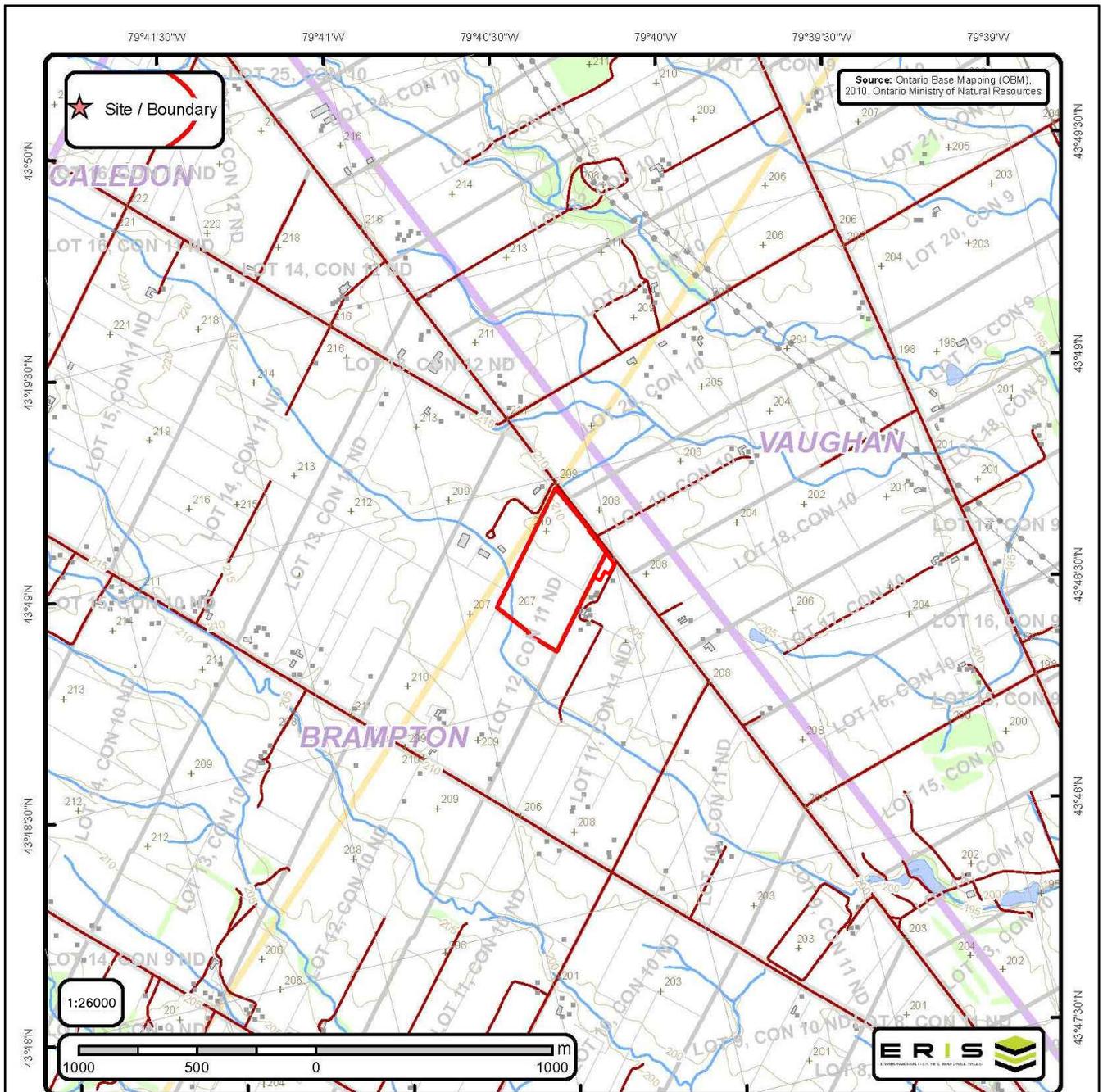


| | | | |
|------------------|--------|---|----------------|
| Client/Location: | | CITY OF BRAMPTON 10192 HIGHWAY 50, BRAMPTON, ON | |
| Project No: | 665125 | Filename: | 002FH10_665125 |
| Drawn: | AG | Verified: | RM |

| | | | |
|------------------|--------------|-----------------------------|-------------|
| Title: | | AERIAL PHOTOGRAPH (2018) | |
| Date: | OCTOBER 2019 | Dwg No: | FIGURE H.10 |
| Project Manager: | AY | | |

Appendix I

Topographic Map and Areas of Natural Significance



NOTE(S):
 1. SCALE AND SITE INFRASTRUCTURE LOCATIONS ARE APPROXIMATE
 2. INFORMATION ON THIS FIGURE MAY BE LOST IF IT IS PRINTED, PHOTOCOPIED OR FAXED IN OTHER THAN ITS ORIGINAL SIZE AND COLOURS
 3. 'm' : METRES

SOURCE(S):
 1. ECOLOG ERIS REPORT, ORDER No.20190508200, MAY 16, 2019

| | | | |
|-----------------------|----------------------------|------------------|--------------------------|
| • Spot Height (metre) | — Transportation Structure | — Contour Line | ■ Wooded Area |
| • Building Point | — Utility Line | ■ Pit or Quarry | ■ Conservation Authority |
| ⊙ Towers | — Water Structure | ■ Waterbody | ■ Conservation Area |
| • Utility Site Point | — Drainage Line Feature | ■ Wetlands | ■ Municipal Park |
| — Misc. Line | — River or Stream | ■ Concession | ■ Provincial Park |
| — Railroads | — Airports | ■ Lots | ■ National Park |
| — Roads | ■ Tanks | ■ Municipality | ■ Nature Reserve |
| — Trail | ■ Building to Scale | ■ Land Ownership | |

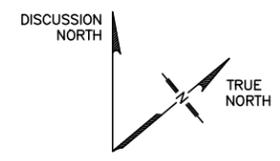


| | | | |
|------------------|--------|---|---------------|
| Client/Location: | | CITY OF BRAMPTON 10192 HIGHWAY 50, BRAMPTON, ON | |
| Project No: | 666236 | Filename: | 002F11_666236 |
| Drawn: | AG | Verified: | RM |

| | | | |
|------------------|-----------|--|------------|
| Title: | | TOPOGRAPHIC MAP AND AREAS OF NATURAL SIGNIFICANCE | |
| Date: | JULY 2019 | Dwg No: | FIGURE 1.1 |
| Project Manager: | AY | | |

Appendix J

Ministry of Environment, Conservation and Parks – Water Well
Records

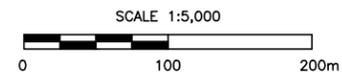


| WELL LOCATION | WELL NUMBER | ADDRESS | DATE RECEIVED | USE |
|---------------|-------------|--|---------------|-------------------|
| 1 | 4902862 | | 17-Jan-67 | Water Supply |
| 2 | 4905218 | | 16-Nov-77 | Water Supply |
| 3 | 4905247 | | 07-Dec-77 | Water Supply |
| 4 | 4905769 | | 10-Apr-81 | Water Supply |
| 5 | 4905812 | | 03-Nov-81 | Water Supply |
| 6 | 4905813 | | 03-Nov-81 | Water Supply |
| 7 | 4906179 | | 18-May-84 | Water Supply |
| 8 | 4906478 | | 08-Aug-86 | Water Supply |
| 9 | 4908701 | | 07-Feb-01 | Water Supply |
| 10 | 7241945 | 4 CORDETTA RD | 28-May-15 | Observation Wells |
| 11 | 7282340 | HWY 50 SOUTHBOUND LANE SOUTH OF CADETTA RD | 28-Feb-17 | Observation Wells |
| 12 | 7166972 | 12 CADETTA RD | 09-Aug-11 | Test Hole |
| 13 | 7178624 | 16 CADETTA ROAD | 29-Mar-12 | Test Hole |
| 14 | 4905768 | | 10-Apr-81 | Test Hole |
| 15 | 7225368 | 16 CADETTA RD. | 12-Aug-14 | Abandoned-Supply |
| 16 | 7249972 | HWY 50 CASTLEMORE ROAD-COLERAINE DR. | 14-Oct-15 | Abandoned-Other |
| 17 | 7249973 | HWY 50 CASTLEMORE RD. & COLERAINE DR. | 14-Oct-15 | Abandoned-Other |
| 18 | 7249974 | HWY 50 CASTLEMORE RD. & COLERAINE DR. | 14-Oct-15 | Abandoned-Other |
| 19 | 7279718 | | 26-Jan-17 | Unknown |

| LEGEND | |
|--------|--------------------------|
| 1 | WATER WELL NUMBER |
| ● | WATER WELL |
| ○ | OBSERVATION WELL |
| ○ | TEST HOLE |
| ⊗ | ABANDONED WELL |
| ○ | UNKNOWN WELL |
| — | PHASE ONE PROPERTY LIMIT |
| - - - | 300M RADIUS FROM SITE |

NOTE(S):
 1. SCALE AND SITE INFRASTRUCTURE LOCATIONS ARE APPROXIMATE
 2. INFORMATION ON THIS FIGURE MAY BE LOST IF IT IS PRINTED, PHOTOCOPIED OR FAXED IN OTHER THAN ITS ORIGINAL SIZE AND COLOURS
 3. 'm' : METRES

SOURCE(S):
 1. GOOGLE EARTH PRO IMAGE, MARCH 7, 2018
 2. MINISTRY OF THE ENVIRONMENT CONSERVATION AND PARKS, WATER WELL DATA SYSTEM AS OF JUNE 2019



| | | | |
|--|----------------------------|-------------------------------------|-----------------------|
| Client/Location: CITY OF BRAMPTON 10192 HIGHWAY 50, BRAMPTON, ON | | Title: WATER WELL RECORDS | |
| Project No: 665125 | Filename: 002FJ1_665125 | Date: OCTOBER 2019 | Dwg No: FIGURE J.1 |
| Drawn: AG | Verified: RM | Project Manager: AY | |

FILENAME: P:\City of Brampton\Johnston Transit Facility\665125\40_Execution\47_Wkg_Vers\CAD_GIS\002 (Phase 1)\002FJ1_665125.dwg

Appendix K

Interview Form



Phase I Interview Questionnaire

| | |
|---|---|
| Date: | <i>May 16, 2019</i> |
| Place of interview: | <i>Brampton</i> |
| Method of interview: | <i>email</i> |
| Name of the person being interviewed: | Owner <i>James F. Johnston</i> |
| Reason why the person was identified as someone to interview: | Owner – knowledgeable about the Site |
| A. SITE AND SURROUNDING | |
| 1 | How long has the Site been owned by the Owner? <i>1992</i> |
| 2 | What was the Site used for: current and historically <i>agriculture, growing crops</i> |
| 3 | Was fill brought to the Site for grading/elevation purposes? <i>no</i> |
| 4 | Is the Site currently municipal serviced? <i>no</i> |
| 5 | Has the Site always been municipally serviced? <i>n/a</i> |
| 6 | Are you aware of any septic bed located on the Site? a. If yes, does it have a holding tank <i>none</i> |



| | |
|-----------|---|
| | <p>b. How often is the holding tank emptied and where c. If no, was there ever a holding tank and is it decommissioned now?</p> |
| | <p>none</p> |
| 7 | <p>Are you aware if natural gas or hydro currently services the Site? Was the Site previously serviced with heating oil or coal?</p> |
| | <p>no, none no</p> |
| 8 | <p>Are you aware of any potable water well at the Site?</p> |
| | <p>no</p> |
| 9 | <p>Are you aware of any above ground storage tanks and/or underground storage tank associated with the on-site farm vehicle storage building, or anywhere else on the Site, or adjacent properties?</p> |
| | <p>no</p> |
| 10 | <p>Are you aware of any waste drums or chemicals currently or previously been present at the Site?</p> |
| | <p>no, none</p> |
| 11 | <p>Are you aware of any spills or leaks (i.e., petroleum or otherwise) associated with farming operations, that occurred at the Site, or adjacent properties? no</p> |



| | |
|-------------------------------|---|
| | |
| 12 | Based on your knowledge, can you provide some history of the site & surrounding neighbourhood (ex. residential or always undeveloped) |
| | <p>- always undeveloped.</p> <p>- "Growing food in 'the Gore' since 1842" in the area is on our farm business card</p> |
| 13 | Based on your knowledge, can you provide commentary as to when adjacent properties were developed? |
| | <p>- dairy farm to the south in family ownership since 1842.</p> <p>- industrial area to north established in 1990's</p> |
| 14 | To your knowledge, are you aware of any environmental reports associated with the Site? |
| | no |
| Comments: | |
| | |
| B. ON-SITE BUILDING(S) | |
| 15 | Any renovation or extension (addition) made to the farm vehicle storage building? |
| | no |



| | |
|--|---|
| | |
| 16 | To your knowledge, are you aware of any current or previous asbestos containing materials or mould associated with the farm vehicle storage building? |
| | no |
| 17 | Are you aware of any abatement reports associated with the on-site farm vehicle storage building? |
| | no |
| 18 | Has the building ever been used for chemical storage before? (e.g. pesticide/herbicide, farming equipment engine oils, lubricants, or above/underground fuel storage tanks, etc.) |
| | no used for machinery storage |
| Comments: - separate chemical storage and - above ground fuel tanks on adjacent property - separate shop for machinery maintenance | |

Appendix L

Site Photographs



Photograph 1: Regraded area on Parcel A1. Facing southeast.



Photograph 2: Regraded area on Parcel A1. Facing northeast.





Photograph 3: Regraded area on Parcel A1. Facing east.



Photograph 4: View of Parcel A, and north property boundary with industrial businesses located north of the Site. Facing northwest.





Photograph 5: View of north property boundary with industrial businesses located north of the Site. Facing northeast.



Photograph 6: View of north property boundary with industrial businesses located north of the Site. Facing north.





Photograph 7: View of north property boundary with industrial businesses located north of the Site. Facing north.



Photograph 8: View of Rainbow Creek at northwest corner of the Site (on Parcel A). Facing south.





Photograph 9: View of Rainbow Creek at northwest corner of the Site (on Parcel A). Facing north.



Photograph 10: Exterior view of the metal storage shed on Parcel A. Facing south.





Photograph 11: Exterior view of the metal storage shed on Parcel A. Facing west.



Photograph 12: Interior view of the metal storage shed. Facing west.





Photograph 13: Interior view of the metal storage shed. Facing west.





Photograph 14: View of AST located to the south of the metal storage on the remainder of the property having Municipal address 10192 Highway 50, Brampton. Facing southeast.



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PROJECT No. 665125

PAGE FORMAT: 8.5x11



Photograph 15: Close up view of the AST located to the south of the metal storage.



SNC-LAVALIN

PROJECT No. 665125

PAGE FORMAT: 8.5x11



Photograph 16: View of the potable water well on the remainder of the property having Municipal address 10192 Highway 50, Brampton. Facing west.





Photograph 17: View of properties located across Cadetta Road, north of the Site. Facing northeast.



Photograph 18: View of the trucking facility located at 9601 Highway 50, east of the Site. Facing east.





Photograph 19: View of the gravel driveway on Parcel B. Facing west.



Photograph 20: View of the farm field on Parcel B. Facing north west.





Photograph 21: View of the farm field on Parcel B. Facing north.



Photograph 22: View of the east end of farm field on Parcel B. Highway 50 located immediately east. Facing north.



SNC-LAVALIN

PROJECT No. 665125

PAGE FORMAT: 8.5x11



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235 Lesmill Rd.
Toronto, Ontario, Canada M3B 2V1
416-635-5882
www.snclavalin.com



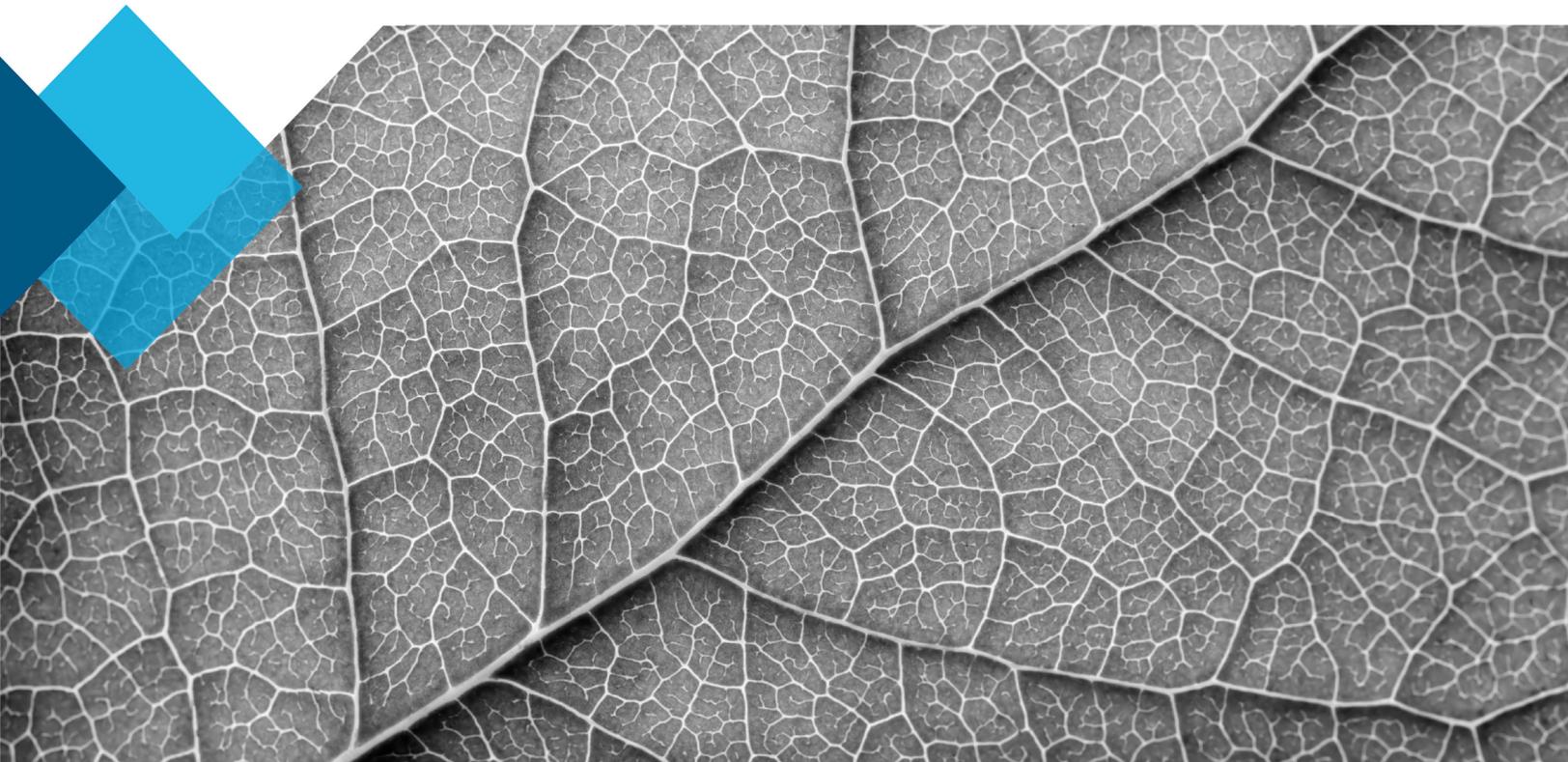


SNC • LAVALIN

Phase Two Environmental Site Assessment

10192 Highway 50, Brampton, Ontario

City of Brampton



Environment & Geoscience

FINAL - November 29, 2019

Internal Ref.: 665125

Notice to Reader

This report has been prepared and the work referred to in this report has been undertaken by the Environment & Geoscience business unit of SNC-Lavalin Inc. (SNC-Lavalin) for the exclusive use of [City of Brampton](#) (the Client), who has been party to the development of the scope of work and understands its limitations. The methodology, findings, conclusions, and recommendations in this report are based solely upon the scope of work and subject to the time and budgetary considerations described in the proposal and/or contract pursuant to which this report was issued. Any use, reliance on, or decision made by a third party based on this report is the sole responsibility of such third party. SNC-Lavalin accepts no liability or responsibility for any damages that may be suffered or incurred by any third party as a result of the use of, reliance on, or any decision made based on this report.

The findings, conclusions, and recommendations in this report (i) have been developed in a manner consistent with the level of skill normally exercised by professionals currently practicing under similar conditions in the area, and (ii) reflect SNC-Lavalin's best judgment based on information available at the time of preparation of this report. No other warranties, either expressed or implied, are made as to the professional services provided under the terms of our original contract and included in this report. The findings and conclusions contained in this report are valid only as of the date of this report and may be based, in part, upon information provided by others. If any of the information is inaccurate, new information is discovered, site conditions change, or applicable standards are amended, modifications to this report may be necessary. The results of this assessment should in no way be construed as a warranty that the subject site is free from any and all contamination.

Any soil and rock descriptions in this report and associated logs have been made with the intent of providing general information on the subsurface conditions of the site. This information should not be used as geotechnical data for any purpose unless specifically addressed in the text of this report. Groundwater conditions described in this report refer only to those observed at the location and time of observation noted in the report.

This report must be read as a whole, as sections taken out of context may be misleading. If discrepancies occur between the preliminary (draft) and final versions of this report, it is the final version that takes precedence. Nothing in this report is intended to constitute or provide a legal opinion.

The contents of this report are confidential and proprietary. Other than by the Client, copying or distribution of this report or use of or reliance on the information contained herein, in whole or in part, is not permitted without the express written permission of the Client and SNC-Lavalin.

Executive Summary

The Environment & Geoscience business unit of SNC-Lavalin Inc. (SNC-Lavalin) was retained by the City of Brampton (the City) to conduct a Phase Two Environmental Site Assessment (ESA) on the property having municipal address 10192 Highway 50, Brampton, Ontario.

Although the proposed development will not require a filing of a Record of Site Condition (RSC) under Ontario Regulation 153/04 (O. Reg. 153/04, as amended); however, as requested by the City, this Phase Two ESA was completed to meet the RSC requirement.

Field work activities were completed between June and October 2019. The Phase Two ESA program was completed by based on O. Reg. 153/04, as amended (MOE, 2011). The Phase Two ESA work program was based on areas of potential environmental concern (APEC) and the Phase One conceptual site model (CSM) developed in the Phase One ESA completed in November 2019 (SNC Lavalin, 2019).

The media investigated during the Phase Two ESA investigation included soil and groundwater.

Site Description and Background

The Phase Two Property is located on the southwest corner of the intersection of Highway 50 and Cadetta Road, in Brampton, Ontario (Figure 1). It is trapezoidal in shape and measures approximately 16.5 ha (40.8 acres). The City already owns the north portion of the Site that is approximately 8 ha in size (i.e. Part 5 of Plan 43R-33140 [PIN 14213-0276]; identified as Parcel A1 for the purpose of this report) and plans to purchase an additional 8.5 hectares located along the south and west area of the Site (i.e. Parts 1 and 2 of the Concession 11, Plan 43R-33140 [PIN 14213-0300]; identified as Parcels A and B for the purpose of this report). The land use at the Site is currently agricultural. The proposed future development at the property may include commercial/industrial land use including a bus storage and maintenance facility with a two-storey office building and above-surface parking.

The lands comprising the Site consists of two PINs transferred and owned by various individuals and/or corporation over the years. PIN 14213-0276 was owned by private individuals from 1830 to 2010, when it was purchased by the City of Brampton. PIN 14213-0300 has been owned by the same private individuals as PIN 14213-0276 since 1830 to present. A regraded/cleared area at the northeast corner of the Site (i.e., Parcel A1) is being used as a satellite yard by the City's Works Department and was constructed/graded with a layer of crushed stone/asphalt. A storage shed located at the south end of PIN 14213-0300 (i.e., Parcel A) was installed between 2005 and 2015, and has been used to store farm machinery/equipment. Previous environmental investigations completed at the Site include a preliminary environmental investigation completed by Trow Associates in 2008 (Trow, 2008a and b) on PIN 14213-0276 (i.e., Parcel A1) consisting of a Phase One ESA and Limited Phase Two ESA.

No structures exist on the Site with the exception of a metal shed used to store farm equipment/ machinery located on Parcel A. A gravel driveway exists along a portion of the southeast edge of the Site, Parcel B and which is associated with remainder the property having the same municipal address of 10192 Highway 50. The northeastern portion of the Site, Parcel A1 (owned by the City), has been re-graded/cleared and backfilled with a layer of crushed stone/asphalt and is being used as a satellite yard by the City's Works Department. A soil berm generated during the regrading of the area is located on the west side of the yard. Two residential dwellings, nine barns for storage and/or livestock and five silos are located south of the

Site, on the remainder the property having the same municipal address of 10192 Highway 50. The Site is primarily flat with a gentle downward slope to the west. The Site is bounded by Cadetta Road and industrial/commercial properties to the north, Highway 50 and a trucking facility to the east, and farm lands to the south and west.

APEC for the Site identified in the Phase One ESA that are due to both on-Site and off-Site current and historical potential contaminating activities (PCA) and areas of interest (AOI) are presented in the table below. Areas of interest are activities or observations of conditions that may have the potential to adversely affect soil and groundwater conditions at the Site, but do not meet the Ministry of the Environment, Conservation and Parks (MECP) definition of a PCA. Associated potential COC are also included in the table below.

| Area of Potential Environmental Concern ¹ | Location of Area of Potential Environmental Concern on Phase One Property | Potential Contaminating Activity ² | Location of PCA (on-site or off-site) | Contaminants of Potential Concern ³ | Media Potentially Impacted (Ground water, soil and/or sediment) |
|--|--|---|---------------------------------------|---|---|
| 1 | General Site area | Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications | On-site | Herbicides & Pesticides and Metals/ Inorganics | Soil and Groundwater |
| 2 | Northeast corner | Importation of Fill Material of Unknown Quality | On-site | PAHs and Metals/ Inorganics | Soil and Groundwater |
| 3 | Along south property boundary (storage of farm machinery/ equipment) | NA | On-site | BTEX, PHC F1-F4, and PAHs | Soil and Groundwater |
| 4 | Along east property boundary (commercial business located at 9701 Highway 50 [upgradient] of the Site documented waste generator and spills) | N/A | Off-site | BTEX, PHC F1-F4, VOCs, PAHs and Metals/ Inorganics | Groundwater |

| Area of Potential Environmental Concern ¹ | Location of Area of Potential Environmental Concern on Phase One Property | Potential Contaminating Activity ² | Location of PCA (on-site or off-site) | Contaminants of Potential Concern ³ | Media Potentially Impacted (Ground water, soil and/or sediment) |
|--|---|--|---------------------------------------|--|---|
| 5 | Along south property boundary (south of the metal storage shed) | Gasoline and associated products storage in fixed tanks. | Off-site | BTEX, PHC F1-F4, and PAHs | Soil and Groundwater |
| 6 | Along north property boundary (waste generators) | N/A | Off-site | BTEX, PHC F1-F4, VOCs, PAHs and Metals/ Inorganics | Soil and Groundwater |
| 7 | Along north property boundary | Metal fabrication | Off-site | VOCs and Metals/ Inorganics | Soil and Groundwater |

Based on the on-Site and off-Site PCA and AOI, APEC were identified on-Site.

The surrounding properties are predominantly zoned as Agricultural (A) or Industrial (M2). The topography at the Site is generally flat with a slight slope towards the west. The Site elevation is approximately 209 m above mean sea level (a msl). The nearest surface water body is Rainbow Creek that crosses the northwest corner of the Site. Runoff from the Site is directed to towards Rainbow Creek which crosses the northwest corner of the Site.

Current Phase Two ESA Results

The Phase Two ESA work program consisted of advancing fourteen (14) boreholes with ten (10) of the boreholes instrumented with monitoring well installed at depths ranging between 5.6 and 7.2 m below ground surface (bgs). A total of fourteen (14) surface soil samples were collected at a depth of ground surface to 0.6 m bgs.

Based on observations during drilling, the thickness of individual geologic units is generally consistent across the Site, as shown in borehole logs presented in Appendix B. In general, the shallow overburden is comprised silty clay fill to a depth of approximately 1.0 m. This material is underlain by sandy silty clay to approximately 7.5 m bgs. The sandy silty clay is underlain by silty sand layer to the maximum depth of investigation at approximately 9.8 m.

The site condition standards (SCS) in a potable groundwater condition for all or part of a property which lies within 30 m of a surface water body for all property use were selected for comparison with measured soil and groundwater concentrations [Table 8 Generic Site Condition Standards for Use within 30 m of a Water Body in a Potable Groundwater Condition (MOE, 2011)].

The results of the current investigation indicated the following:

- › Electrical conductivity (EC) exceeded the selected standards in the surface soil samples collected (<1.5 m bgs.) in the southeast portion of the Site and in the vicinity of the metal shed near the south-central portion of the site.
- › pH was outside the MECP range of 5 to 9 in surface soils (<1.5 m bgs) located in the vicinity of the metal shed in the south-central portion of the Site.
- › Molybdenum exceeded the selected standards in groundwater in the southwest portion and north end of the Site. Molybdenum contamination in groundwater are considered likely to be the result of agricultural practices at the Site.

A risk assessment is not planned at this time.

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1. Introduction

The Environment & Geoscience business unit of SNC-Lavalin Inc. (SNC-Lavalin) was retained by the City of Brampton (the City) to conduct a Phase Two Environmental Site Assessment (ESA) on the property located at 10192 Highway 50 in Brampton, Ontario. It is understood that the City already owns the northeast portion of this property (approximately 8 hectares [ha] in size; identified as “Parcel A1”) and plans to purchase an additional 8.5 ha, consisting of an 8 ha “L” shape parcel located along the south and west area of the property (identified as “Parcel A”); and a 0.5 ha parcel south of the proposed building footprint and west of Highway 50 (identified as “Parcel B”). Collectively, all three Parcels, herein, are referred to as the “Phase Two Property” or the “Site”).

Although the proposed development will not require a filing of a Record of Site Condition (RSC) under Ontario Regulation 153/04 (O. Reg. 153/04, as amended); however, as requested by the City, this Phase Two ESA was completed to meet the RSC requirement.

The Phase Two ESA work program was based on areas of potential environmental concern (APEC) and the Phase One conceptual site model (CSM) developed in the Phase One ESA completed in November 2019 (SNC Lavalin, 2019).

1.1 Site Description

The Phase Two Property is located on the southwest corner of the intersection of Highway 50 and Cadetta Road, in Brampton, Ontario (Figure 1). It is trapezoidal in shape and measures approximately 16.5 ha (40.8 acres). The City already owns the north portion of the Site that is approximately 8 ha in size (i.e. Part 5 of Plan 43R-33140 [PIN 14213-0276]; identified as Parcel A1 for the purpose of this report) and plans to purchase an additional 8.5 hectares located along the south and west area of the Site (i.e. Parts 1, 2, 4 & 5 of the Concession 11, Plan 43R-33140 [PIN 14213-0300]; identified as Parcels A and B for the purpose of this report).

No structures exist on the Site with the exception of a metal shed located on Parcel A property used to store farm equipment/machinery. A gravel driveway exists along a portion of the southeast edge of the Site, Parcel B and which is associated with remainder of the property having the same municipal address of 10192 Highway 50. The northeastern portion of the Site, Parcel A1 (owned by the City), has been regraded/cleared and backfilled with a layer of crushed stone/asphalt and is being used as a satellite yard by the City’s Works Department. A soil berm generated during the regrading of the area is located on the west side of the yard. Two residential dwellings, nine barns for storage and/or livestock and five silos are located south of the Site, on the remainder of the property and having the same municipal address of 10192 Highway 50.

The Site is primarily flat with a gentle downward slope to the west. The Site is bounded by Cadetta Road and industrial/commercial properties to the north, Highway 50 and a trucking facility to the east, and farm lands to the south and west. The land use at the Site is currently agricultural.

One Phase One ESA and a limited Phase Two ESA were completed for Parcel A1 in 2008. No other investigations or assessments were completed for the remainder of the Site (i.e., Parcels A and B).

The current layout of the Phase One Property is shown on Figure 2.

1.2 Property Ownership

| | |
|--|---|
| Site Owner | Mr. James F. Johnston Authorized Signing Officer 10192 Highway 50, Brampton, Ontario |
| Person Requesting Phase Two ESA | Ms. Reshma Fazlullah Project Coordinator Building Design and Construction City of Brampton 2 Wellington Street West City Hall – West Tower, 8 th Floor Brampton, Ontario L6Y 4R2 Telephone: 416-845-4237 |

1.3 Current and Proposed Future Uses

The property is currently used for agricultural purposes. The proposed future development at the property may include commercial/industrial land use including a bus storage and maintenance facility with a two-storey office building and above ground parking area. The proposed site layout is shown on Figure 3.

1.4 Applicable Site Condition Standards

Site condition standards (SCS) for use at this Site were selected from the Ontario Ministry of the Environment, Conservation and Parks (MECP; formerly Ministry of the Environment (MOE)) Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act using the approach described by O. Reg. 153/04, as amended. The following Site specific information was used to select the standards for the Site:

- › The Site is not considered an environmentally sensitive area as defined by Section 41 of O. Reg. 153/04 since:
 - The Site is not, does not include, is not adjacent to and is not part of an area of natural significance, nor does it include land that is within 30 m of an area of natural significance;
 - With the exception of seven (7) shallow soil samples collected in the vicinity of borehole BH72 at a depth of between 0.0 and 0.6 m with pH values ranging between 9.01 and 11.3, pH values from the remaining soil samples collected from the work program were between 5 and 9;
 - The Site is not a shallow soil property as there is more than 2 m of soil on the Site property;
- › There is more than 2 m of soil on the site property. However, the property includes part of a water body (Rainbow Creek crosses the northwest corner of the Site) as defined by Section 43.1.
- › The Site is not serviced by a municipal drinking water system, as defined in the Safe Drinking Water Act, 2002. A review of the MECP water well records identified nine (9) domestic/commercial/industrial water supply wells within a 300 m radius of the Site. In addition, one water well (with status of domestic

water supply) constructed in 1977, on the remainder of the property having municipal address 10192 Highway 50, located south of the Phase Two Property. It is possible that these wells may be used for potable purposes.

- › Grain size analysis completed at the Site (Appendix A) indicated that soil at the Site predominantly consists of sandy or clayey silt, which is considered to be medium and fine textured as defined by O. Reg. 153, to the maximum depth of the boreholes.
- › During the current Phase Two ESA, the depth to groundwater at the Site generally ranged from approximately 0.11 m to 6.05 m below ground surface (bgs) during the investigation period.
- › The current use of the Site is agricultural and the future proposed land use may be industrial/commercial.

Based upon the information above, the SCS in a potable groundwater condition for all or part of a property which lies within 30 m of a surface water body for all property use were selected for comparison with measured soil and groundwater concentrations [Table 8 Generic Site Condition Standards for Use within 30 m of a Water Body in a Potable Groundwater Condition (MOE, 2011)].

2. Background Information

2.1 Physical Setting

The topography at the Site is generally flat with a slight slope towards the west. The Site elevation is approximately 209 m above mean sea level (a msl). The nearest surface water body is Rainbow Creek that crosses the northwest corner of the Site. Surface runoff from the Site is directed to towards Rainbow Creek which crosses the northwest corner of the Site.

There are no areas of natural significance located within 300 m of the Site (SNC-Lavalin, 2019a).

2.2 Past Investigations

A Draft Phase One ESA was completed by SNC-Lavalin for the Site in 2019 (SNC-Lavalin, 2019a).

The Phase One ESA identified the Phase One Property consists of two PINs (14213-0276 [Parcel A1] and a portion [Parcels A and B] of 14213-0300) transferred and owned by various individuals and/or corporation over the years. PIN 14213-0276 was owned by private individuals from 1830 to 2010, when it was purchased by the City of Brampton. PIN 14213-0300 has been owned by the same private individuals as PIN 14213-0276 since 1830 to present. A regraded/cleared area at the northeast corner of the Site (i.e., Parcel A1) is being used as a satellite yard by the City's Works Department and was constructed/graded with a layer of crushed stone/asphalt. A storage shed located at the south end of PIN 14213-0300 (i.e., Parcel A) was installed between 2005 and 2015, and has been used to store farm machinery/equipment.

Previous environmental investigations completed at the Site include a preliminary environmental investigation completed by Trow Associates in 2008 (Trow, 2008a and b) on PIN 14213-0276 (i.e., Parcel A1) consisting of a Phase One ESA and Limited Phase Two ESA. A summary of the key findings from these reports is provided below. The locations of boreholes and monitoring wells discussed below are shown on Figure 2.

- › The Phase One ESA recommended that a limited Phase Two ESA be completed to assess topsoil for pesticides, and soil and groundwater testing for chemicals associated with the off-site commercial/industrial activities located adjacent to the north property boundary. The trucking facility to the east (across Highway 50) was considered low environmental risk.
- › Four (4) boreholes were advanced to depths of between 5.0 m and 7.5 m bgs., of which two (2) were instrumented as groundwater monitoring wells.
- › Stratigraphy was noted to be topsoil to depths of approximately 0.28 m underlain by clayey/silt till to an approximate depth of 3.1 m underlain by a sandy silt till to depths of between 4.9 and 7.8 m bgs.
- › The water table depth was noted to be between 2.6 m and 4.0 m bgs.
- › Detectable concentrations of selected heavy metals and hydride parameters were noted in three analyzed soil samples, but were below the then Table 2 criteria for agricultural use in a potable groundwater condition.
- › Concentrations of organochlorine pesticides (OP) and volatile organic compounds (VOCs) in the analyzed soil samples were below the laboratory method detection limits.
- › Concentrations of selected heavy metals, OP and VOCs in the analyzed groundwater samples met the then Table 2 criteria and/or were below the laboratory method detection limits.

- › It was concluded no impacts were identified to soil or groundwater associated with historic site use including potential pesticides, and no indication of adverse impacts to soil and groundwater from the adjacent properties located to the north. It was recommended that a more comprehensive investigation of soil and groundwater be completed in close proximity to the north property boundary to evaluate potential impacts from industrial activities on these adjacent north properties.

This Phase Two ESA was conducted to investigate other APEC identified during the Phase One ESA.

3. SCOPE OF THE INVESTIGATION

3.1 Overview of Site Investigation

The objective of this work program was to conduct a Phase Two ESA in support of possible filing of an RSC by investigating potential impacts to soil and groundwater related to APEC and associated potential contaminants of concern (PCOC) identified during the completion of a Phase One ESA of the Site (SNC Lavalin, 2019).

To meet the objectives described above, SNC-Lavalin developed a work plan to implement the City's scope of work. The work plan was prepared as part of the geotechnical investigation and was approved by the City. The work plan was completed between June (Parcels A and A1) and October (Parcel B) and included the following:

- › Public and private utility locates to confirm the location of subsurface utilities;
- › Collecting surface soil samples from the soil berm located on the west side of Parcel A1 and inside the metal shed on Parcel A;
- › Borehole drilling and completing selected boreholes as monitoring wells;
- › Groundwater monitoring and sampling;
- › Laboratory analyses of samples collected;
- › Disposal of investigation wastes; and,
- › Reporting.

3.2 Media Investigated

3.2.1 Rationale for Media Sampled

The Phase One ESA identified seven (7) on- and off-site APEC. Potentially affected media in each APEC were soil and groundwater. Although Rainbow Creek crosses the northwest corner of the Site, surface water quality nor sediment were investigated as the water body is located within the Toronto Regional Conservation Authority (TRCA) floodplain.

3.2.2 Overview of the Field Investigation

A review of historical soil and groundwater data collected during previous investigations and results of the Phase One ESA were used to develop the objectives of this work program and initial sampling and analysis plan (SAP). The locations of boreholes, monitoring wells and surface soil sampling completed in the work program are shown on Figure 3.

Soil

The soil investigation conducted by SNC-Lavalin included the following activities:

- › Drilling fourteen (14) boreholes to depths ranging from 3.7 to 9.8 m bgs;
- › Collecting six (6) surface soil samples from the soil berm at depths of 0 to 0.6 m bgs;
- › Soil samples were collected at various depths of potential concern and submitted for laboratory analysis of one or more of VOCs, petroleum hydrocarbons (PHC) fractions F1 to F4, herbicides/pesticides, polycyclic aromatic hydrocarbons (PAHs) and metals/inorganics;

- › Collecting eight (8) surface soil samples in the vicinity of borehole BH72 at depths of 0 to 0.6 m bgs and submitted for laboratory analysis of pH; and,
- › Collecting and submitting one (1) representative soil sample for waste classification analysis.

Groundwater

The groundwater investigation conducted by SNC-Lavalin included the following activities:

- › Instrumenting ten (10) boreholes with monitoring wells with screen lengths ranging from 1.5 m to 4.5 m;
- › Monitoring headspace vapour readings and/or measured water levels and presence or absence of light non-aqueous phase liquids (LNAPL); and,
- › Well development and collection of groundwater samples from the ten (10) newly installed monitoring wells for laboratory analyses of one (1) or more of benzene, toluene, ethylbenzene, xylenes (collectively referred to as BTEX), PHC F1 to F4, VOCs, PAHs and metals/inorganics (including Cr6+, Hg, free cyanide and chloride).

3.3 Phase One Conceptual Site Model

APEC for the Site identified in the Phase One ESA that are due to both on-Site and off-Site current and historical potential contaminating activities (PCA) and areas of interest (AOI) are presented in the table below. Areas of interest are activities or observations of conditions that may have the potential to adversely affect soil and groundwater conditions at the Site, but do not meet the MECP definition of a PCA. Associated PCOC are also included in the table below.

| Area of Potential Environmental Concern ¹ | Location of Area of Potential Environmental Concern on Phase One Property | Potential Contaminating Activity ² | Location of PCA (on-site or off-site) | Contaminants of Potential Concern ³ | Media Potentially Impacted (Ground water, soil and/or sediment) |
|--|---|--|---------------------------------------|--|---|
| 1 | General Site area | Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications | On-site | Herbicides & Pesticides and Metals/ Inorganics | Soil and Groundwater |
| 2 | Northeast corner | Importation of Fill Material of Unknown Quality | On-site | PAHs and Metals/ Inorganics | Soil and Groundwater |
| 3 | Along south property boundary (storage of farm machinery/ equipment) | NA | On-site | BTEX, PHC F1-F4, and PAHs | Soil and Groundwater |

| Area of Potential Environmental Concern ¹ | Location of Area of Potential Environmental Concern on Phase One Property | Potential Contaminating Activity ² | Location of PCA (on-site or off-site) | Contaminants of Potential Concern ³ | Media Potentially Impacted (Ground water, soil and/or sediment) |
|--|--|--|---------------------------------------|--|---|
| 4 | Along east property boundary (commercial business located at 9701 Highway 50 [upgradient] of the Site documented waste generator and spills) | N/A | Off-site | BTEX, PHC F1-F4, VOCs, PAHs and Metals/ Inorganics | Groundwater |
| 5 | Along south property boundary (south of the metal storage shed) | Gasoline and associated products storage in fixed tanks. | Off-site | BTEX, PHC F1-F4, and PAHs | Soil and Groundwater |
| 6 | Along north property boundary (waste generators) | N/A | Off-site | BTEX, PHC F1-F4, VOCs, PAHs and Metals/ Inorganics | Soil and Groundwater |
| 7 | Along north property boundary | Metal fabrication | Off-site | VOCs and Metals/ Inorganics | Soil and Groundwater |

Figure 4 illustrates the Phase One Conceptual Site Model (CSM) for the Site including APEC and PCA as described above.

The regional surface geology, as interpreted from Map 2556, Quaternary Geology of Ontario, Southern Sheet (Barnett et. al., 1991), comprises Halton till, predominantly silt to silty clay. The bedrock geology in the area belongs to the group of the Georgian Bay Formation; Blue Mountain Formation; Billings Formation; Collingwood Member, and Eastview Member consisting of shale, limestone, dolostone and siltstone (Ontario Geological Survey, 2011).

Utilities are not expected to serve as preferential pathways for contaminant migration, as their locations are generally located away from utilities.

No uncertainties were identified in the Phase One ESA.

3.4 Deviations from Sampling and Analysis Plan

In general, the investigation was conducted in accordance with the sampling and analysis plan (SAP) provided to the City and is included below.

Borehole Drilling and Monitoring Well Installation

| 10192 Highway 50, Brampton – Parcel A and A1 | | |
|---|--|--|
| <p>Twelve (12) boreholes, Eight (8) complete with monitoring wells to an anticipated depth of ten (10) metres below grade. At least three (3) boreholes with a monitoring wells are to be installed in the assumed upgradient (groundwater gradient) location to determine and monitor background contaminates concentrations and to determine site hydrogeological conditions. Two (2) of the boreholes (i.e., BH-72 and BH-73) to be advanced inside the metal shed on Parcel A in the areas of observed ground staining.</p> | <p>Soil</p> <ul style="list-style-type: none"> - Twelve (12) - ICP metals - Twelve (12) - PAH - Twelve (12) - VOCs - Twelve (12) - F1-F4 - Twelve (12) - SAR - Twelve (12) - Conductivity - Ten (10) - Herbicides and Pesticides - Two (2)- Grain Size Analysis - One (1)- Ontario Regulation 558 Disposal Characteristics | <p>Water</p> <ul style="list-style-type: none"> - Eight (8) - ICP metals - Eight (8) - PAH - Eight (8) - VOCs - Eight (8) - F1-F4 - Eight (8) - EC & SAR |

| 10192 Highway 50, Brampton – Parcel B | | |
|---|---|--|
| <p>Two (2) boreholes, considered as “environmental boreholes”, both to be completed with monitoring wells to a maximum anticipated depth of six (6) metres below grade.</p> | <p>Soil</p> <ul style="list-style-type: none"> - Two (2) - ICP metals - Two (2) - PAH - Two (2) - VOCs - Two (2) - F1-F4 - Two (2) - SAR - Two (2) - Conductivity - Two (2) - Herbicides and Pesticides | <p>Water</p> <ul style="list-style-type: none"> - Two (2) - ICP metals - Two (2) - PAH - Two (2) - VOCs - Two (2) - F1-F4 - Two (2) - EC & SAR |

pH Delineation – Parcel A (metal shed)

- › Four (4) samples to be collected within 1 m radius of borehole BH-72 at the same depth as the soil sample with elevated pH (between 0.0 and 0.6 m below ground surface; bgs) and submitted for laboratory analysis of pH; and,
- › Four (4) ‘step-out’ samples (from the samples collected from the 1 m radius) will be collected submitted to the laboratory on hold. These samples will only be analysed for pH if soil pH remains elevated within 1 m from the BH-72.

Deviations from the SAP are as follows:

- › Soil samples collected from Parcel A and A1 were analysed for O. Reg. 153/04 metals and inorganics package, instead of ICP metals scan, EC and SAR;
- › Limited groundwater recovery in monitoring well MW-75 resulted in laboratory analysis of a reduced list of parameters (i.e., only VOCs and PHC F1 to F4).

3.5 Impediments

No impediments were encountered during the investigation.

4. Investigation Method

4.1 General

A Site specific health and safety program was implemented by SNC-Lavalin throughout the work program.

The Phase Two ESA program was completed by SNC-Lavalin field staff using field and laboratory analysis protocols based on O. Reg. 153/04, as amended (MOE, 2011) and standard operating procedures (SOPs) described in the SNC-Lavalin Field Work Guidance Manual (SNC-Lavalin, 2017).

Prior to drilling, public utilities in the planned work area were identified/cleared by various public utility companies at the request of SNC Lavalin. Landshark Drilling (Landshark) of Brantford, Ontario, a drilling company with private utility locating services, was retained by SNC-Lavalin to mark and clear all private utilities and to confirm the locations of public utilities. Drilling locations were finalized based on the location of infrastructure and utilities.

4.2 Drilling and Excavating

A total of fourteen (14) boreholes (BH-02, BH-03, BH-18, BH-22, BH-30, BH-33, BH-35, BH-51, BH-52, BH-70, BH-72, BH-73, BH-74 and BH-75) were drilled at the Site by Landshark between June and October 2019 under SNC-Lavalin supervision. Boreholes BH-02, BH-03, BH-18, BH-22, BH-30, BH-33, BH-35, BH-51, BH-52, BH-70, BH-72 and BH-73 were completed between June 10 and June 20, 2019. Boreholes BH-74 and BH-75 were completed on October 16, 2019. Borehole locations are shown on Figure 3.

Drilling was conducted using a truck-mounted, B57, B48 and CME75, equipped with hollow stem augers and split spoon samplers. Boreholes were advanced using approximately 0.15 and 0.20 m outside diameter (OD) hollow stem augers to depths ranging between 3.7 m and 9.8 m bgs.

Borehole logs are presented in Appendix B.

No excavating was completed during this investigation.

4.3 Soil: Sampling

4.3.1 Borehole Soil Sampling

Soil samples were collected during drilling using either 5.1 cm OD, 76 cm long split spoon samplers advanced ahead of the augers. Split spoon samples were collected approximately every 0.6 or 0.8 m intervals.

Soil samples recovered during drilling were divided into two (2) portions, one (1) for laboratory analysis and the second for field logging/screening. Details of field screening methodology are described in Section 4.4. The portion retained for possible laboratory analysis was bottled in laboratory-supplied sampling containers as described in Section 4.11.1 and submitted for analysis as described in the SAP.

Borehole logs are presented in Appendix B and discussed in Section 6.1.

4.3.2 Surface Soil Sampling

Six (6) surface soil samples from the soil berm were collected on June 24, 2019 between the berm surface to a depth of 0.6 m below surface following excavation using a hand auger.

Results of the soil sampling program completed in June 2019 as part of the current Phase Two ESA investigation identified a measured pH value of 10.6 in one (1) sample collected from borehole BH-72 completed inside the shed at a depth between 0.0 to 0.6 m bgs. The remaining soil samples collected during the work program ranged between 5 and 9, which is the range considered acceptable for the application of the MECP generic SCS. As a result, eight (8) additional soil samples were collected in October 2019 between ground surface and 0.6 m bgs using a hand auger to further investigate soil pH in the vicinity of borehole BH-72 and included the following:

- › Four (4) samples were collected from a 1 m radius around borehole BH-72 and submitted for laboratory analysis of pH; and,
- › Four (4) “step-out” samples (from the samples collected from the 1 m radius) were collected and submitted to the laboratory and placed on “hold” pending analytical results from the first four samples.

Soil samples were handled as described in Section 4.3.1. Details of field screening methodology are described in Section 4.4. The portion retained for possible laboratory analysis was bottled in laboratory-supplied sampling containers as described in Section 4.11.1 and submitted for analysis of pH. Surface soil sample locations are shown on Figure 3.

4.4 Field Screening Measurements

Soil samples used for field logging/screening were placed in sealable plastic bags and logged in the field for soil type, moisture content, colour, structure, texture and visual evidence of impact by petroleum hydrocarbons. Maximum headspace vapour readings in the sample bags were measured using a RKI Model Eagle-2 (RKI) operated in methane elimination mode after allowing the samples to equilibrate.

The RKI was calibrated on a daily basis. The RKI was either calibrated by the supplier (Maxim Environmental of Mississauga) or in the field to hexane standards (15% LEL and 1650 ppmv) for hydrocarbons and isobutylene standards for VOC (100 ppmv). Calibration was acceptable if readings were within 10% of the standard. If results were outside the calibration acceptance criteria of 10%, adjustments were made in the field until the instrument read within 10% of the standard value.

Field screening with the RKI/PID was used to qualitatively identify potential “worst case” samples for potential laboratory submission by identifying the potential presence of contaminants with relatively elevated vapour readings (e.g. VOCs/F1 PHC). Non-volatile parameters (e.g. heavy metals and some heavy organic compounds) cannot be screened using this approach. In addition to field screening with the RKI, sample selections were also based on visible observation of the sample (staining), Site geology/hydrogeology, knowledge of contaminant behavior and knowledge of the Site from previous investigations.

4.5 Groundwater: Monitoring Well Installation

Ten (10) boreholes (BH-02, BH-03, BH-22, BH-30, BH-33, BH-35, BH-51, BH-70, BH-74 and BH-75) were instrumented as monitoring wells by Landshark and were designated as MW-02, MW-03, MW-22, MW-30, MW-33, MW-35, MW-51, MW-70, MW-74 and MW-75. Monitoring well locations are shown on Figure 3.

The monitoring wells were constructed using 5.1 cm diameter flush threaded PVC piping. With the exception of monitoring wells MW-22, MW-35 and MW-75, all monitoring wells were installed with 3 m long screens. Monitoring wells MW-22 and MW-35 were installed with 4.5 m long screens and MW-75 was installed with a 1.5 m long screen (due to auger refusal at this location). The monitoring wells were installed at depths ranging between 5.6 and 7.2 m bgs. Wells were completed with solid risers with heights ranging between 0.86 m and 1.00 m above ground surface. A clean silica sand pack was placed around each screen and isolated with hydrated bentonite to slightly below grade. The wells were completed with above grade protective steel casings set in concrete. Monitoring wells were also equipped with dedicated sampling equipment including low density polyethylene (LDPE) tubing and inertial foot valves, and capped with j-plugs.

Monitoring well construction details are presented in the borehole logs (Appendix B).

To minimize the potential for cross-contamination during well installation, well supplies (including, screen, riser and dedicated LDPE tubing) were removed from protective packaging only immediately prior to use. Handling was done by workers wearing a new pair of disposable vinyl gloves per well and by avoiding contact with potentially contaminating materials.

As per O. Reg. 903, as amended, monitoring wells completed as part of this investigation were registered with MECP. Copies of well records are provided in Appendix C.

Following installation, newly installed monitoring wells MW-02, MW-03, MW-22, MW-30, MW-33, MW-35, MW-51 and MW-70 were developed between June 21 and 26, 2019 and newly installed monitoring wells MW-74 and MW-75 were developed between October 17 and 22, 2019.

Groundwater monitoring wells were developed by purging involved manually moving the inertial foot valve from the top of the screened area to the bottom to ensure development of the whole screen, occasionally agitating the bottom of the well to stir up and remove any sediment built up. To assess the progress of well development, pH, conductivity and temperature readings were measured using a Hanna Instruments HI 991300 meter calibrated by Maxim Environmental and Safety Inc. or in the field by SNC-Lavalin personnel. Well development was considered to be complete when purged dry once. Measurement of field parameters is discussed in more detail in Section 4.6.

The date of the well development, the time, the purged groundwater volume and the field parameter measurements were recorded in the field log.

4.6 Groundwater: Field Measurement of Water Quality Parameters

To ensure that groundwater samples were representative during low flow groundwater sampling (Section 4.7), purged groundwater was collected in a bucket and a Hanna Instruments Model H 991300 meter was used to measure pH, conductivity and temperature. Purging ceased, and groundwater samples

were collected when readings stabilized (generally within 10%) and until the water was visually free from silt.

4.7 Groundwater: Sampling

Prior to groundwater sampling, headspace vapour readings in each monitoring well were measured upon removal of the well cap with a RKI Eagle-2 operated in methane elimination mode. The RKI Eagle-2 was calibrated in the field to hexane standards as described in subsection 5.2.4 by either Maxim Environmental or SNC-Lavalin personnel. Water levels in the monitoring wells were measured relative to the top of riser pipe using a Heron Instruments Interface probe. Groundwater monitoring was conducted after well development was completed, and after water levels had at least 24 hours to stabilize. Wells were also examined for the presence of NAPL using the interface probe. Prior to use in each well, the interface probe was washed using Alconox and rinsed with distilled water to minimize the potential for cross-contamination. Groundwater monitoring was completed in June 2019 for wells installed on Parcels A and A1. All groundwater monitoring wells located on the Phase Two Property were monitored in October 2019.

Groundwater sampling was completed as indicated in the SAP. Deviations to the groundwater sampling and analysis plan (if any) are described in Section 3.4.

Groundwater sampling from monitoring wells MW-02, MW-03, MW-22, MW-30, MW-33 MW-35, MW-51 and MW-70 was completed between June 24 and June 27, 2019. Groundwater sampling from monitoring wells MW-74 and MW-75 was completed on October 22, 2019.

Groundwater samples were collected using low-flow purging and sampling techniques including peristaltic pump and single-use tubing. All tubing was changed following sample collection at each monitoring location. During purging, the intake end of tubing was lowered to the approximate mid-point of the wetted screen interval of the monitoring well to facilitate groundwater sampling near the zone of saturated soil impact. The pump was operating at a steady rate of approximately 0.5 litres per minute. To assess the effectiveness of purging, pH, conductivity and temperature readings were measured in purged water using a Hanna Instruments HI 991300 meter (Section 4.6). Purging was stopped when readings stabilized (within 10%) and when the water was visually free from silt.

Samples for metals analysis were field filtered using dedicated inline 0.45 µm filters.

Groundwater samples collected were submitted for laboratory analyses as described in the SAP. Due to limited recovery in monitoring well MW-75, the groundwater sample was only submitted for laboratory analysis VOCs and PHC F1 to F4.

Samples submitted for laboratory analysis were collected in the field following protocols designed to minimize the loss of volatile constituents and using laboratory supplied sampling containers as described in Section 4.11.1.

4.8 Analytical Testing

Laboratory analyses of soil, groundwater and soil vapour samples were completed by AGAT Laboratories (AGAT) of Mississauga, Ontario. AGAT is accredited by the Standards Council of Canada (SCC) and follow analytical protocols outlined in O. Reg. 153/04.

4.9 Residue Management Procedures

Excess soil generated during drilling was placed/stored in 205 L metal drums at the Site pending off-site disposal.

Purged groundwater generated during well development and sampling were placed/stored in 205 L plastic drums at the Site pending off-Site disposal.

4.10 Elevation Surveying

Newly installed monitoring wells were surveyed by SNC-Lavalin personnel on October 21, 2019 to establish the ground surface, well casing and riser elevations. The ground surface elevations at borehole locations were also surveyed. The survey was completed using a Trimble RX 5800 high precision unit, with elevations relative to geodetic above mean sea level (a msl).

A current legal plan of survey is not available at this time; a draft plan of survey from the Phase Two Site provided in Appendix C.

4.11 Quality Assurance and Quality Control Measures

A quality assurance/quality control (QA/QC) program was implemented to minimize and quantify impacts introduced during sample collection, handling, shipping and analysis. As part of the QA/QC program, sampling protocols included minimizing sample handling; submitting field QA/QC samples; using dedicated sampling equipment; using sample specific identification and labelling procedures; and using chain of custody records.

4.11.1 Sample Containers, Preservation, Labelling and Handling

Soil samples submitted for laboratory analysis were collected in the field following protocols designed to minimize the loss of volatile constituents and using laboratory supplied sampling containers.

Soil samples for analysis of PHC F1 and/or VOCs were collected and placed directly in 40 mL vials equipped with Teflon-lined septum caps and containing pre-weighed methanol. Soil samples for the remaining parameters (PHC F2 to F4, PAHs, metals/inorganics and pesticides/herbicides) were collected and directly placed in 60 mL, 120 mL and/or 250 mL wide mouthed glass jars (with zero headspace) with Teflon-lined lids. Collected samples were placed immediately into coolers with ice to control sample temperature.

Groundwater samples submitted for laboratory analysis were collected in the field following protocols designed to minimize the loss of volatile constituents and using laboratory supplied sampling containers.

Groundwater samples for laboratory analysis of BTEX, PHC F1 and/or VOCs were collected (with zero headspace) and directly placed in 40 mL glass vials equipped with Teflon-lined septum caps and containing sodium bisulphate (NaHSO₄) preservative. Groundwater samples for analysis of PHC F2 to F4 were collected in 500 mL amber glass bottles containing HCl preservative. Groundwater samples for analysis of PAHs were collected in 500 mL amber glass bottles without preservative. Groundwater samples for analysis of dissolved metals, hexavalent chromium, and mercury were field filtered using dedicated 0.45 micron filters and collected in laboratory supplies containers charged with preservative. Cyanide was

collected in a 250 mL plastic bottle containing Sodium Hydroxide (NaOH) preservative. Collected samples were placed immediately into coolers with ice to control sample temperature.

A consistent approach to identifying samples was applied to ensure proper identification of each sample, validity of analytical results and continuity between multiple series of Site investigations. The approach for soil sample labelling was to use a three-component sample name:

1. Sample prefix (i.e. BH);
2. Location number (i.e. BH03); and,
3. Sequential sample number (i.e. BH03-02).

For groundwater labelling, a two-component sample number was used (i.e. MW-03). All water samples collected from the same location, over a period of time, typically have the same sample prefix and location number, with the sampling date used to differentiate between samples.

During the field work, a permanent waterproof marker was used to label the sample containers. A marker, which is free of toluene (i.e. Staedtler Lumocolor permanent marker) was used on the sample containers. Upon sample retrieval, samples for analysis were collected directly into laboratory containers (with or without preservatives depending on analytical suites) and placed into coolers with ice. The requested chemical analyses for the samples were documented in the chain of custody that was placed in the cooler. Prior to shipment, signed and dated custody seals were affixed to the coolers. The coolers were then delivered to the laboratory.

4.11.2 Sample Equipment Cleaning Procedure

The non-dedicated field soil sampling equipment (e.g. hand tools, split spoon) was brushed to remove loose soil and subsequently cleaned with detergent (Alconox) and distilled water between sample collection to minimize the potential for cross-contamination between samples. Dedicated disposable vinyl gloves were worn during the handling of each sample.

Prior to use in each well, the interface probe was washed using detergent (Alconox) and rinsed with distilled water to minimize the potential for cross-contamination.

4.11.3 Field and Laboratory QA/QC Samples

Field duplicate and trip blank samples (where analysed) for soil are presented in Tables 2 to 6 and E.1. Field QA/QC samples for soil sampling included the following:

- › Two (2) field duplicate samples were submitted for a total of sixteen (16) soil samples for laboratory analysis of PHC F1 to F4 and VOCs.
- › Two (2) field duplicate samples were submitted for a total of twenty-two (22) soil samples for laboratory analysis of metals and inorganics.
- › One (1) field duplicate sample was submitted for a total of nine (9) surface soil samples for laboratory analysis of pH.
- › One (1) trip blank sample provided by AGAT was submitted for laboratory analysis of VOCs.

Field duplicate and trip blank samples (where analysed) for groundwater are presented in Tables 8 to 11 and F.1. Field QA/QC samples during groundwater sampling included the following:

- › Two (2) field duplicate samples were submitted for a total of twelve (12) samples for laboratory analysis of PHC F1 to F4 and VOCs.
- › Two (2) field blank sample was submitted for laboratory analysis of PHC F1 to F4 and VOCs.
- › Two (2) trip blank sample was submitted for laboratory analysis of VOCs.

Laboratory QA/QC measures included analysis of laboratory blank, spiked blank, duplicate and matrix spike samples.

4.11.4 Deviations from QA/QC Program

There were no deviations from the QA/QC program.

4.11.5 Data Review and Validation

Sampling data generated for this project was reviewed and verified by SNC-Lavalin personnel to ensure that data conforms to and satisfies project objectives. Data verification included ensuring that calibration of field instruments was satisfactory and field blank and field duplicates meet acceptable criteria. The data verification and reporting process for the laboratory data involved ensuring that the holding times, precision, accuracy, laboratory blanks, and detection limits are within acceptance criteria. If significant variances were identified, the final report was reviewed to determine if the overall project objectives are met and/or if additional investigations or corrective actions are required.

5. Review and Evaluation

5.1 Geology

Borehole logs are provided in Appendix B.

The regional surface geology, as interpreted from Map 2556, Quaternary Geology of Ontario, Southern Sheet (Barnett et. al., 1991), comprises Halton till, predominantly silt to silty clay. The bedrock geology in the area belongs to the group of the Georgian Bay Formation; Blue Mountain Formation; Billings Formation; Collingwood Member, and Eastview Member consisting of shale, limestone, dolostone and siltstone (Ontario Geological Survey, 2011). Bedrock was not encountered during the investigations. Based on MECP well records, average bedrock depth in the vicinity of the Site is approximately 20 m bgs.

Based on observations during drilling, the thickness of individual geologic units is generally consistent across the Site, as shown in borehole logs presented in Appendix B. In general, the shallow overburden is comprised silty clay to a depth of approximately 1.0 m. This material is underlain by sandy silty clay to approximately 7.5 m bgs. The sandy silty clay is underlain by silty sand layer to the maximum depth of investigation at approximately 9.8 m.

Based on the encountered geology and the measured depth to groundwater (see Section 5.2) only one aquifer was investigated and an aquitard was not identified. Results of soil and groundwater sampling (Sections 5.6 and 5.7) identified contaminants within the single aquifer and it was deemed unnecessary to locate an aquitard below this unit or to investigate other aquifers that may be present at deeper depths.

5.2 Groundwater: Elevations and Flow Direction

Groundwater wells were used to determine groundwater flow direction. These monitoring wells were intended to be screened to straddle the water table, however, shallower groundwater conditions were encountered at the site and groundwater levels were measured above the screen during groundwater monitoring. Nevertheless, this is not expected to affect the interpretation of groundwater flow direction. As only one aquifer was identified, only one groundwater flow direction was determined.

Measured water levels in the monitoring wells from June and October 2019 are summarized in Table 1. Elevations are measured with respect to the local benchmark.

To establish inferred shallow groundwater flow at the site, groundwater elevations from October were used as this monitoring event included all wells installed at the site. The depth to water in the monitoring wells ranged from approximately 0.76 m (MW-22) to 4.41 m bgs (MW-02) bgs on October 21, 2019. Corresponding water elevations in the monitoring wells ranged from 204.68 (MW-75) to 209.46 m amsl (MW-22) on October 21, 2019. The groundwater flow direction was interpreted and depicted on Figure 5. Based on these data, the highest groundwater elevation at the site appears to be centered around monitoring well MW-22 located in the northeast portion of the site. The inferred shallow groundwater flow is interpreted to be from the northeast portion of the site towards to the boundaries of the site.

Groundwater levels at the site is expected to the highest during spring and lower during winter. LNAPL was not encountered in any monitoring wells during the work program.

Water infiltrates the Site through the ground surface. Influenced by subsurface utilities is expected to be minimal and not expected to influence the direction of groundwater flow.

5.3 Groundwater: Hydraulic Gradients

The horizontal hydraulic gradient at the Site was determined to range between 0.01m/m and 0.05 m/m. Vertical hydraulic gradient was not assessed as part of this investigation, however, it will be included as part of hydrogeological investigation and provided to the City under a separate cover.

5.4 Fine-Medium Soil Texture

Grain size analysis completed at the Site (SNC-Lavalin 2019b) indicated that the overburden would be considered to be medium to fine textured as defined by O.Reg. 153, thus, the standards for fine to medium textured soil were selected.

5.5 Soil: Field Screening and Field Observations

Field observations and results of field screening for soil samples are summarized in the borehole logs provided in Appendix B. OVM readings measured from soil samples collected from all boreholes were less than 5 parts per million by volume (ppmv).

5.6 Soil Quality

Analytical results for borehole soil samples are summarized in Tables 2 to 7. The selected MECP 2011 Table 8 SCS in a potable groundwater condition for all or part of a property which lies within 30 m of a surface water body for all property use are also provided for comparison. Soil analytical results are also summarized in Figure 6. Only parameters that exceeded the selected standards at one or more locations in soil are depicted on the figure. Laboratory Certificates of Analysis for soil samples are provided in Appendix E.

5.6.1 VOCs and PHC F1 to F4

Analytical results for borehole and surface soil samples are shown in Table 2 (BTEX and PHC) and Table 3 (VOCs excluding BTEX).

Where analysed, the concentrations of VOC parameters (including BTEX) and PHC F1 to F4 in boreholes and surface soil samples were less than the laboratory reportable detection limits (RDLs) and below the selected MECP Table 8 standards.

5.6.2 PAHs

Analytical results for borehole and surface soil samples are shown in Table 4.

Where analysed, the concentrations of PAH parameters in boreholes and surface soil samples were less than the laboratory RDLs and below the selected MECP Table 8 standards.

5.6.3 Pesticides and Herbicides

Analytical results for borehole and surface soil samples are shown in Tables 5.

Where analysed, the concentrations of pesticides and herbicides parameters (including phenols) in boreholes and surface soil samples were less than the laboratory RDLs and below the selected MECP Table 8 standards.

5.6.4 Metals and Inorganics

Analytical results for borehole and surface soil sample are shown in Table 6.

Electrical conductivity (EC) exceeded the selected standards in the soil samples collected at depths ranging between 0.0 m and 1.4 m bgs from boreholes BH-18 and BH-72.

The pH value in the sample collected from borehole BH-72 at a depth ranging between 0.0 m and 0.6 m bgs was outside the MECP Table 8 range of 5 to 9. pH values in six (6) of the eight (8) surface soil samples collected in the vicinity of BH-72 were also outside the MECP Table 8 range and results were between 9.01 and 11.3.

Concentrations of remaining metals and inorganic parameters in the remaining analysed soil samples were below the selected standards.

5.6.5 Waste Classification

Analytical results for the soil sample submitted for O. Reg. 347 waste classification are provided in Table 7. Results indicate that soil removed from the Site during investigation activities may be classified as non-hazardous waste for the purpose of off-Site disposal in the Province of Ontario. Laboratory Certificates of Analysis for the waste classification sample are provided in Appendix E.

5.6.6 Chemical and Biological Transformation of Contaminants

Metals/Inorganics

As both contaminants identified, including EC and pH, are inorganic parameters. Chemical and biological transformation do not pose a concern as degradation products are applicable to these contaminants.

5.6.7 Does Soil Serve as a Contaminant Source for Other Media

The EC and pH exceedances were generally located in the vicinity of boreholes BH-18 and BH-72. Given that these are inorganic parameters, the impacted soil is not considered to serve as contaminant source for other media.

5.6.8 Evaluation of Light or Dense Non-Aqueous Liquids (Soil)

Results do indicate the presence of LNAPL as BTEX, PHCs and VOCs in all analysed soil samples from borehole and surface soil were less than the laboratory reportable detection limits.

5.7 Groundwater Quality

Analytical results for groundwater samples are summarized in Tables 8 to 11, with the selected MECP 2011 Table 8 SCS provided in the tables for comparison. Groundwater analytical results are also summarized in Figure 7. Only parameters where concentrations exceeded the selected standards on one or more occasions groundwater are depicted on the figure.

Laboratory Certificates of Analysis for groundwater samples are provided in Appendix F.

5.7.1 VOCs and PHC F1 to F4

Analytical results for groundwater are shown in Table 8 (BTEX and PHCs) and Table 9 (VOCs excluding BTEX).

Where analysed, the concentrations of VOC parameters (including BTEX) and PHC F1 to F4 in groundwater samples were less than the RDLs and below the selected MECP Table 8 standards.

5.7.2 PAHs

Analytical results for PAHs are shown in Table 10.

Where analysed, the concentrations of PAH parameters in surface soil were less than the RDLs and below the selected MOE 2011 Table 8 standards.

5.7.3 Metals and Inorganics

Analytical results for metals and inorganics are shown in Table 11.

Concentrations of molybdenum exceeded the Table 8 standards in two (2) monitoring wells (MW-35 and MW-70) during the groundwater sampling event in June 2019. Concentrations of metal and inorganic parameters satisfied the selected standards in the remaining analysed groundwater samples.

5.7.4 Chemical and Biological Transformation of Contaminants

Metals/Inorganics

As the contaminants identified is molybdenum, which is an inorganic parameter. Chemical and biological transformation do not pose a concern as degradation products are applicable to these contaminants.

5.7.5 Evaluation of Light or Dense Non-Aqueous Liquids (Groundwater)

NAPL or sheen was not detected in the on-Site monitoring wells during any of the groundwater monitoring and sampling programs completed at the Site. Furthermore, BTEX, PHCs and VOCs in all groundwater samples were less than the laboratory reportable detection limits.

5.8 Sediment Quality

Sediment sampling was not conducted as part of this Phase Two ESA at the Site.

5.9 Quality Assurance and Quality Control Results

The QA/QC program was implemented to minimize and quantify impacts introduced during sample collection, handling, shipping and analysis.

Laboratory analysis was completed in accordance with Standard Methods (e.g., MOE, 2011a) and generally accepted industry practices. Laboratory QA/QC measures included analysis of laboratory blank, spiked blank, duplicate and matrix spike samples. A certificate of analysis has been received for each sample submitted for analysis and all certificates of analysis have been included in full in Appendices F to I. All

certificates of analysis received from the contract analytical laboratory comply with sub-section 47(3) of the regulation. A review of the certificates of analysis identified several instances where the analytical laboratory noted that RDLs for some parameters were adjusted as a result of the need to dilute the sample prior to analysis.

For blind field duplicate samples, the relative percent difference (RPD) was calculated to assess correlation between duplicate samples and their analytical pairs. The RPD is calculated by the following formula:

$$RPD = \frac{|X_1 - X_2|}{X_{avg}} \times 100$$

where X1 and X2 are the duplicate sample concentrations and X_{avg} is the mean of X1 and X2. Analytical error increases near the RDL; therefore the RPD is not typically calculated unless the concentrations of the duplicate samples are greater than five (5) times the RDL. Generally accepted RPDs for laboratory duplicates are approximately 40 to 50% for soil and 20 to 40% for groundwater. For field duplicates, acceptable limits for RPDs are 70% for soil inorganic parameters, 100% for soil organic parameters, 100% for soil vapour parameters, 50% for groundwater inorganic parameters and 80% for groundwater organic parameters. If the RPD for a field duplicate sample and its analytical pair did not meet acceptable RPD limits, an explanation is provided below.

The results of the soil field QA/QC analysis of field duplicate, field blank and trip blank samples are discussed and presented in Appendix E (Tables E.1 to E.2).

The results of the groundwater field QA/QC analysis of field duplicate, field blank and trip blank samples are discussed and presented in Appendix F (Tables F.1 to F.2).

Analytical results for field and laboratory soil samples for analysed parameters generally showed acceptable correlation to their corresponding analytical pairs.

Analytical results for field and laboratory groundwater for analysed parameters showed good correlation to their corresponding analytical pairs. Results for the field and trip blank samples in groundwater samples were generally below the laboratory RDLs for all analysed parameters.

Analytical results for field and laboratory soil vapour samples for analysed parameters showed good correlation to their corresponding analytical pairs. Results for the field and trip blank samples in soil vapour samples were generally below the laboratory RDLs for all analysed parameters.

Overall, QA/QC analysis suggests that field sampling/handling and laboratory analytical protocols were acceptable.

5.10 Phase Two Conceptual Site Model

This section to be updated following additional investigations completed on the property adjacent to the southeast of the Site.

5.10.1 Areas Where Potentially Contaminating Activity Has Occurred

See discussion of Phase One ESA findings in Section 3.3 above.

5.10.2 Physical Setting of Phase Two Property

5.10.2.1 Stratigraphy

Based on the current and previous investigations completed at the Site, the shallow overburden is generally comprised of sandy silty clay to a depth of approximately 7.5 m bgs underlain by a silty sand layer to the maximum depth of investigation (9.8 m bgs).

5.10.2.2 Hydrogeological settings

The topography at the Site is generally flat with a slight slope towards the west. The Site elevation is approximately 209 m amsl. The nearest surface water body is Rainbow Creek that crosses the northwest corner of the Site. Runoff from the Site is directed to towards Rainbow Creek which crosses the northwest corner of the Site.

Based on the encountered geology and the measured depth to groundwater only one aquifer was investigated and an aquitard was not identified. Results of soil and groundwater sampling did not identify contaminants associated with petroleum hydrocarbons. As such, LNAPL is unlikely to be present at the site. These contaminants were delineated within the single identified aquifer and it was deemed unnecessary to locate an aquitard below this unit or to investigate other aquifers that may be present at deeper depths.

Based on groundwater monitoring results from October 2019, the highest groundwater elevation at the site appears to be centered around monitoring well MW-22 located in the northeast portion of the site. The inferred shallow groundwater flow is interpreted to be from the northeast portion of the site towards to the boundaries of the site.

The vertical gradient was not assessed for this investigation.

5.10.2.3 Approximate depth to bedrock

Bedrock was not encountered during investigations completed at the Site. However, regional maps indicate bedrock geology consists of the group of the Georgian Bay Formation; Blue Mountain Formation; Billings Formation; Collingwood Member, and Eastview Member consisting of shale, limestone, dolostone and siltstone. Based on MECP well records, average bedrock depth in the vicinity of the Site is approximately 20 m bgs.

5.10.2.4 Approximate depth to water table

The depth to groundwater at the Site ranged from approximately 0.11 m to 6.05 m bgs. Groundwater levels at the site is expected to the highest during spring and lower during winter.

5.10.2.5 Any respect in which section 41 or 43.1 of the regulation applies to the property

Section 41 (see Section 1.4, Selection of Standards, above) does not apply to the Site as there is a localized area in the vicinity of the metal shed on Parcel A in which the pH of the soil is outside the range of 5 to 9 and is not representative of overall soil conditions at the Site. Section 43.1 applies since the Site is within 30 m of a water body (Rainbow Creek crosses the northwest corner of the Site).

5.10.2.6 Areas where soil has been brought from another property

Imported fill consisting a layer of crushed stone/asphalt was placed at the northeast corner of the Site in the re-graded portion within Parcel A1. This fill is determined to be adequately characterized and would not be considered fill of unknown quality.

5.10.2.7 Approximate locations of proposed buildings and other structures

No structures exist on the Site with the exception of a metal shed used to store farm equipment/ machinery located on Parcel A. The proposed future development at the property may include commercial/industrial land use including a bus storage and maintenance facility with a two-storey office building and above-surface parking. The proposed site layout is shown on Figure 3.

5.10.3 Areas of Site Where a Contaminant is Present On, In, or Under the Phase Two Property at a Concentration Greater Than the Applicable Site Condition Standards

Areas where contaminants are present above the MECP (2011) Table 8 standards in soil and groundwater are shown in Figures 6 and 7, respectively.

Contaminants Exceeding Applicable Standards and Media Investigated:

- › Surface soil (<1.5 m bgs): EC and pH
- › Groundwater: Molybdenum

5.10.3.1 Medium Where a Contaminant is Present

Contaminants above the MECP (2011) Table 8 standards are present in surface soil (<1.5 m bgs) and groundwater.

5.10.3.2 Distribution of Contaminants in Each Area

EC and pH:

The areas of EC and pH contamination are shown on Figure 6 and on cross sections in Figure 8. EC exceeded the selected standards in surface soils (<1.5 m bgs) in the southeast portion of the Site and in the vicinity of the metal shed near the south-central portion of the site. pH was outside the MECP SCS range of 5 to 9 in surface soils (<1.5 m bgs) located in the vicinity of the metal shed in the south-central portion of the Site.

EC and pH contamination in surface soil are considered likely to be the result of storage of farm equipment and machinery in the metal shed.

Molybdenum:

The areas of molybdenum contamination are shown on Figure 7 and on cross sections in Figure 9. Molybdenum exceeded the selected standards in groundwater in the southwest portion and north end of the Site. Molybdenum contamination in groundwater are considered likely to be the result of agricultural practices at the Site.

5.10.4 Migration of Contaminants

EC and pH:

EC and pH impacts in soil are not expected to migrate beyond the area of the metal shed, where farm equipment/machinery is stored.

Molybdenum:

Molybdenum impacts in groundwater is not expected to migrate beyond the area where agricultural products consisting of molybdenum is applied to the Site.

5.10.5 Meteorological and Climatic Considerations

Precipitation events may result in redistribution of contaminants in surface soil and infiltration into the groundwater surface, diluting an/or migrating contaminants in groundwater.

5.10.6 Cross Sections

The lateral and vertical distribution of contaminants in each area where the contaminants is present at concentrations greater than the applicable site condition standard in soil and groundwater, the approximate depth to the water table, and stratigraphy are shown in Figures 6 to 9, as discussed in the previous sections.

No utilities are considered likely to affect contamination distribution and transport.

5.10.7 Potential Exposure Pathways and Receptors

Proposed development of the Site is commercial/industrial. Human receptors include future workers and subsurface workers. The only contaminants of concern (COC) in surface soil are EC and pH, which are not evaluated for human exposure. The COC in groundwater include molybdenum. In the absence of risk management measures, the only complete exposure pathways for future workers are ingestion of groundwater and dermal contact with groundwater. Subsurface workers may be exposed to the COC ingestion of soil, dermal contact with soil, and inhalation of particulate matter. Off-Site human receptors are potentially exposed to the COC via migration of groundwater to surface water.

Ecological receptors include vegetation, soil invertebrates, birds, and mammals. The COC in surface soil are EC and pH. The COC in groundwater include molybdenum. There is a potential for migration of COC in groundwater to surface water.

The human health and ecological conceptual site models, in the absence of risk management measures, are shown on Figure 10.

6. Conclusions

6.1 Inorganic Contamination:

- › Soil - EC concentrations exceeded the selected standards in surface soils in the southeast portion of the Site and in the vicinity of the metal shed near the south-central portion of the site. pH was outside the MECP range of 5 to 9 in surface soil in the vicinity of the metal shed on Parcel A.
- › Groundwater – molybdenum concentrations exceeded the selected standards in the southwest portion and north end of the Site.

6.2 Summary of Exceedances

Exceedances of the MECP 2011 Table 8 standards identified during the current Phase Two ESA in the following locations on-Site:

| Contaminant of Concern | | Selected MECP Table 8 Standards | | Location of Soil Exceedance (max. concentration) | Location of Groundwater Exceedance (max. concentration) |
|------------------------|----|---------------------------------|-------------|--|--|
| | | Soil | Groundwater | | |
| Metals & Inorganics | pH | 5-9 | na | SS9 (11.3) SS10 (11.0) SS13 (10.7) BH72-1 (10.6) SS8 (10.8) SS7 (10.3) SS14 (9.01) | na |
| | EC | 700 | na | BH72-1 (1,070) BH18-02 (810) | na |
| | Mo | 2 | 70 | na | MW-70 (120) MW-35 (73.2) |

EC = electrical conductivity; soil concentrations reported in $\mu\text{S}/\text{cm}$
Mo = molybdenum; soil and groundwater concentrations reported in $\mu\text{g}/\text{g}$ and $\mu\text{g}/\text{L}$, respectively
Na = not applicable

A risk assessment is not planned at this time.

7. Closure

The Phase Two ESA was supervised by undersigned qualified person(s) and all findings and conclusions of the Phase Two ESA are included in the report.

Prepared by:



Wing-Shun Wu, M.Env.Sc.
Environmental Scientist



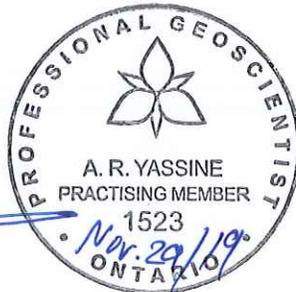
Robert Mitzakov, M.A.Sc., P.Eng .
Project Engineer

Reviewed by:



Abed Yassine, P.Geo.
Senior Geoscientist

Environment & Geoscience
Engineering, Design and Project Management



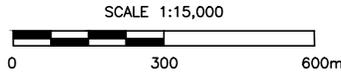
8. References

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Figures

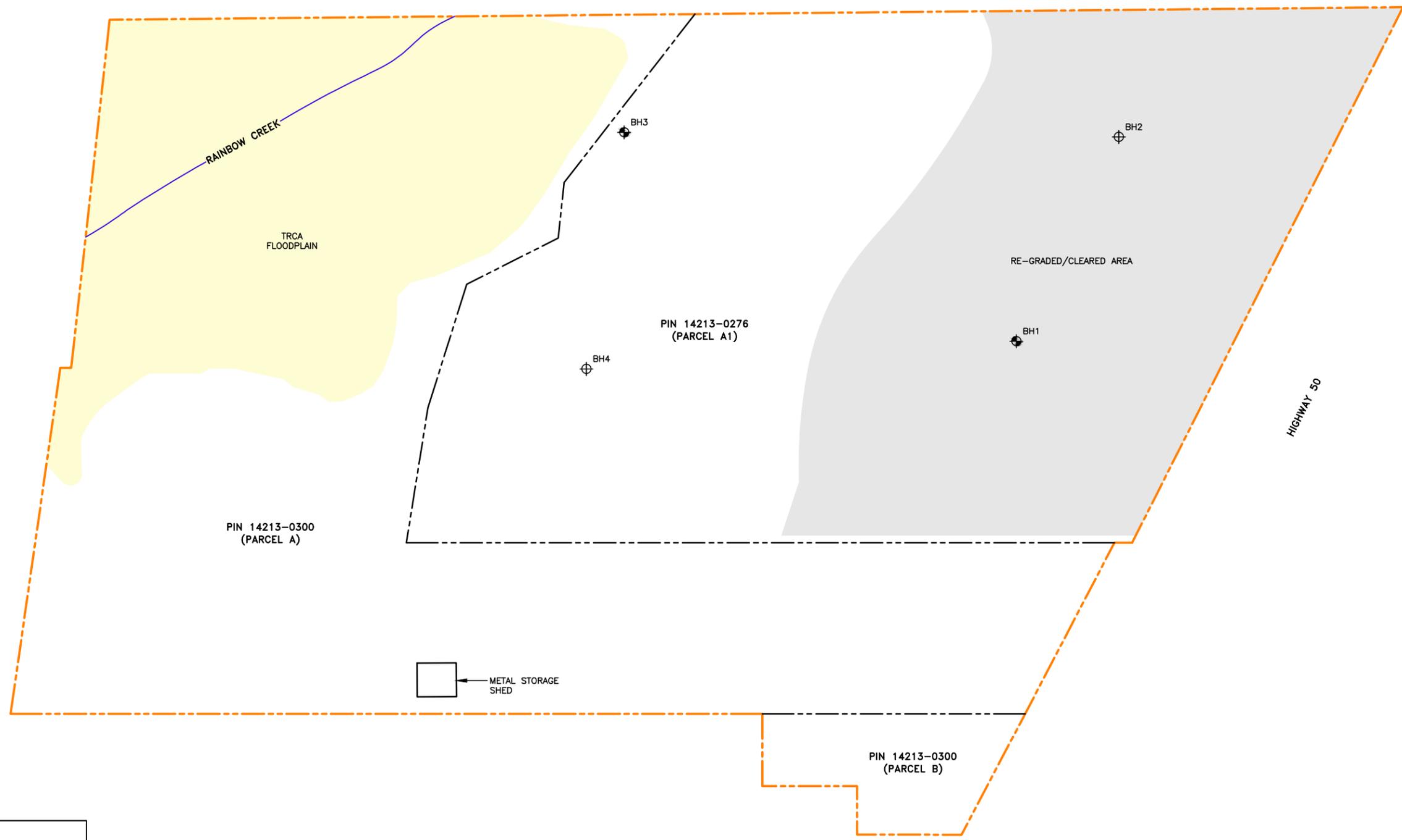
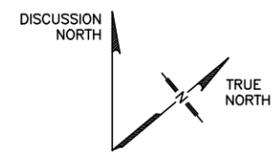


SOURCE(S):
1. GOOGLE EARTH PRO IMAGE, MARCH 7, 2018



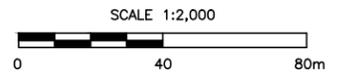
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| Project No: | 665125 | Filename: | 005F01_665125 |
| Drawn: | AG | Verified: | RM |

| | | | |
|------------------|---------------|--------------------|----------|
| Title: | | SITE LOCATION PLAN | |
| Date: | NOVEMBER 2019 | Dwg No: | FIGURE 1 |
| Project Manager: | AY | | |

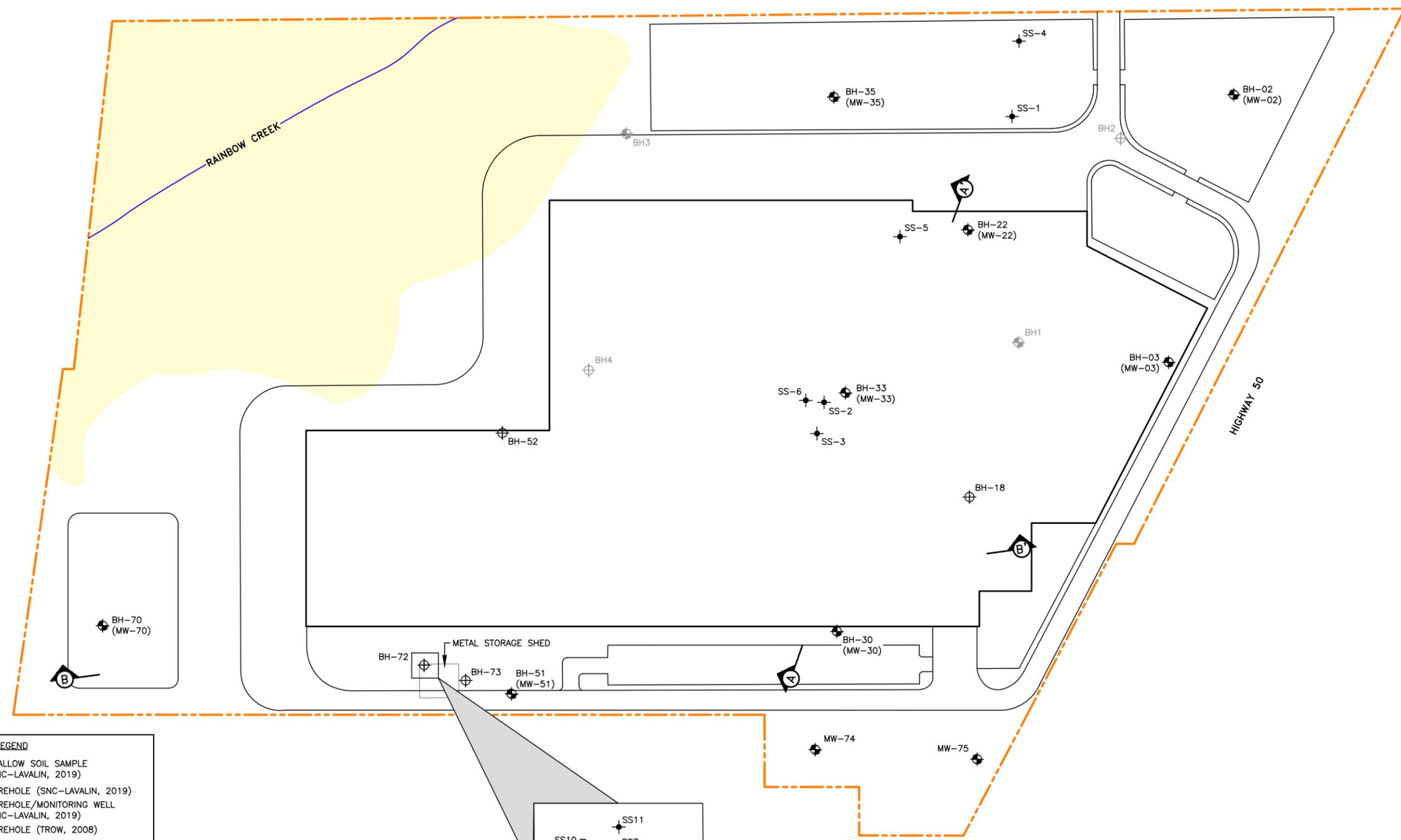
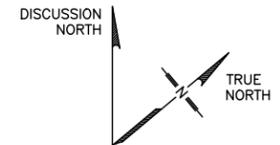


| LEGEND | |
|--------|---|
| | BOREHOLE (TROW, 2008) |
| | MONITORING WELL (TROW, 2008) |
| | RE-GRADED/CLEARED AREA |
| | TORONTO AND REGION CONSERVATION AUTHORITY (TRCA) FLOODPLAIN |
| | SITE PROPERTY LINE |
| | PROPERTY LINE |
| | EXISTING BUILDING |

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 3. 'm' : METRES



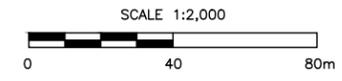
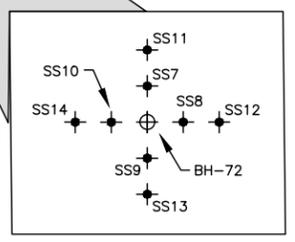
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| Client/Location: | | CITY OF BRAMPTON 10192 HIGHWAY 50, BRAMPTON, ON | | Title: | | CURRENT SITE LAYOUT | |
| Project No: | 665125 | Filename: | 005F02_665125 | Date: | NOVEMBER 2019 | Dwg No: | FIGURE 2 |
| Drawn: | AG | Verified: | RM | Project Manager: | AY | | |



LEGEND

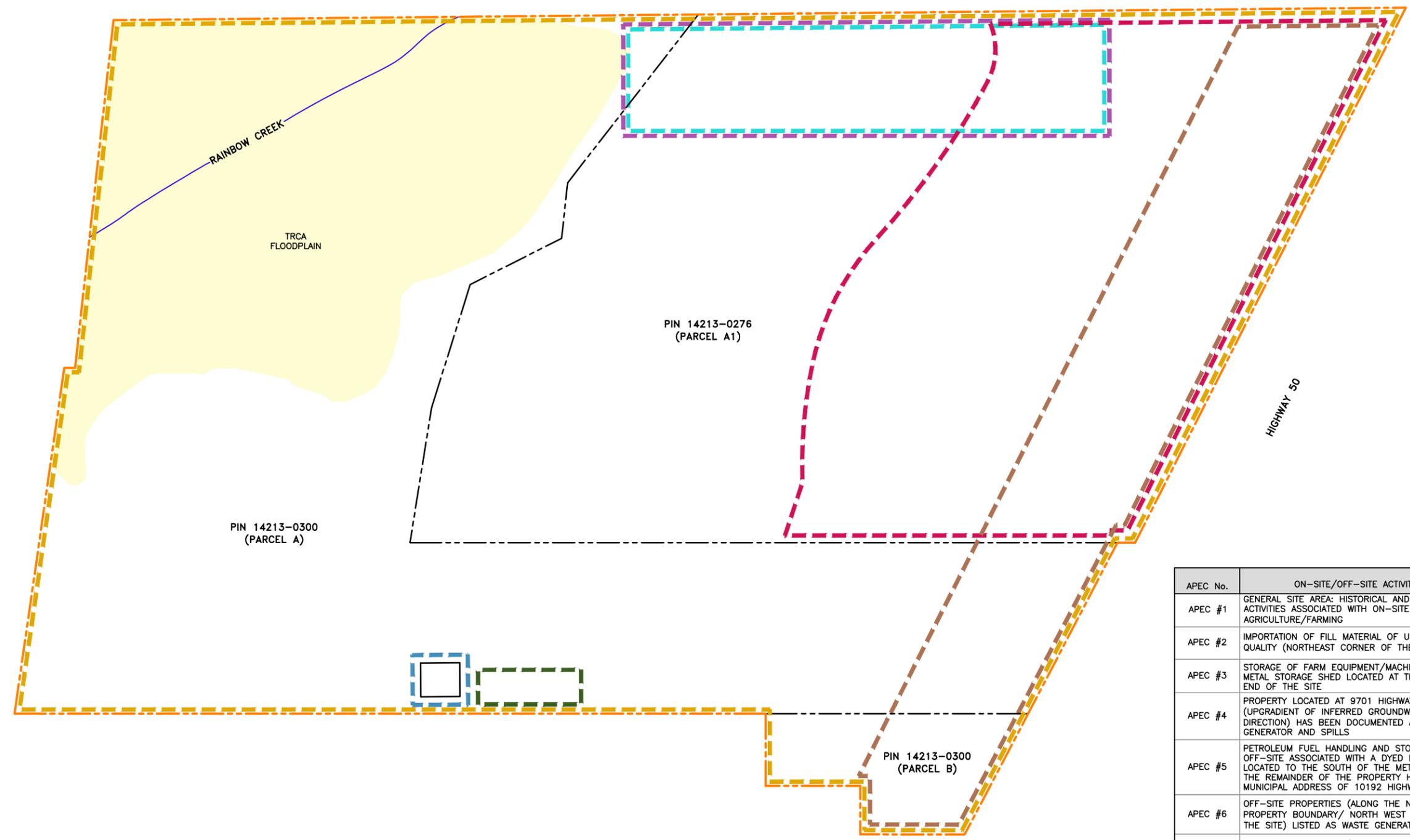
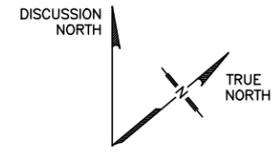
| | |
|--|---|
| | SHALLOW SOIL SAMPLE (SNC-LAVALIN, 2019) |
| | BOREHOLE (SNC-LAVALIN, 2019) |
| | BOREHOLE/MONITORING WELL (SNC-LAVALIN, 2019) |
| | BOREHOLE (TROW, 2008) |
| | MONITORING WELL (TROW, 2008) |
| | CROSS SECTIONAL LINE |
| | TORONTO AND REGION CONSERVATION AUTHORITY (TRCA) FLOODPLAIN |
| | SITE PROPERTY LINE |
| | EXISTING BUILDING |
| | PROPOSED BUILDING |
| | PROPOSED INFRASTRUCTURE |

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|------------------|--------|---|---------------|------------------|---------------|---|----------|
| Client/Location: | | CITY OF BRAMPTON 10192 HIGHWAY 50, BRAMPTON, ON | | Title: | | PROPOSED SITE LAYOUT AND BOREHOLE/ MONITORING WELL LOCATION PLAN | |
| Project No: | 665125 | Filename: | 005F03_665125 | Date: | NOVEMBER 2019 | Dwg No: | FIGURE 3 |
| Drawn: | AG | Verified: | RM | Project Manager: | AY | | |

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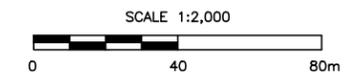


| APEC No. | ON-SITE/OFF-SITE ACTIVITIES | PCA No. | POTENTIAL CONTAMINANTS OF CONCERN |
|----------|---|---------|--|
| APEC #1 | GENERAL SITE AREA: HISTORICAL AND CURRENT ACTIVITIES ASSOCIATED WITH ON-SITE AGRICULTURE/FARMING | 40 | HERBICIDES AND PESTICIDES AND METALS/INORGANICS |
| APEC #2 | IMPORTATION OF FILL MATERIAL OF UNKNOWN QUALITY (NORTHEAST CORNER OF THE SITE) | 30 | PAHs AND METALS/INORGANICS |
| APEC #3 | STORAGE OF FARM EQUIPMENT/MACHINERY IN THE METAL STORAGE SHED LOCATED AT THE SOUTH END OF THE SITE | NA | BTEX, PHC F1-F4, VOCs AND PAHs |
| APEC #4 | PROPERTY LOCATED AT 9701 HIGHWAY 50 (UPGRADIENT OF INFERRED GROUNDWATER FLOW DIRECTION) HAS BEEN DOCUMENTED AS A WASTE GENERATOR AND SPILLS | NA | BTEX, PHC F1-F4, VOCs, PAHs, AND METALS/INORGANICS |
| APEC #5 | PETROLEUM FUEL HANDLING AND STORAGE OFF-SITE ASSOCIATED WITH A DYED DIESEL AST LOCATED TO THE SOUTH OF THE METAL SHED ON THE REMAINDER OF THE PROPERTY HAVING MUNICIPAL ADDRESS OF 10192 HIGHWAY 50 | 28 | BTEX, PHC F1-F4, VOCs, PAHs, AND METALS/INORGANICS |
| APEC #6 | OFF-SITE PROPERTIES (ALONG THE NORTH PROPERTY BOUNDARY/ NORTH WEST CORNER OF THE SITE) LISTED AS WASTE GENERATORS | NA | BTEX, PHC F1-F4, VOCs, PAHs, AND METALS/INORGANICS |
| APEC #7 | OFF-SITE PROPERTIES (ALONG NORTH PROPERTY BOUNDARY OF THE SITE) INVOLVED IN THE MANUFACTURING OF METAL PRODUCTS | 34 | VOCs AND METALS/INORGANICS |

LEGEND

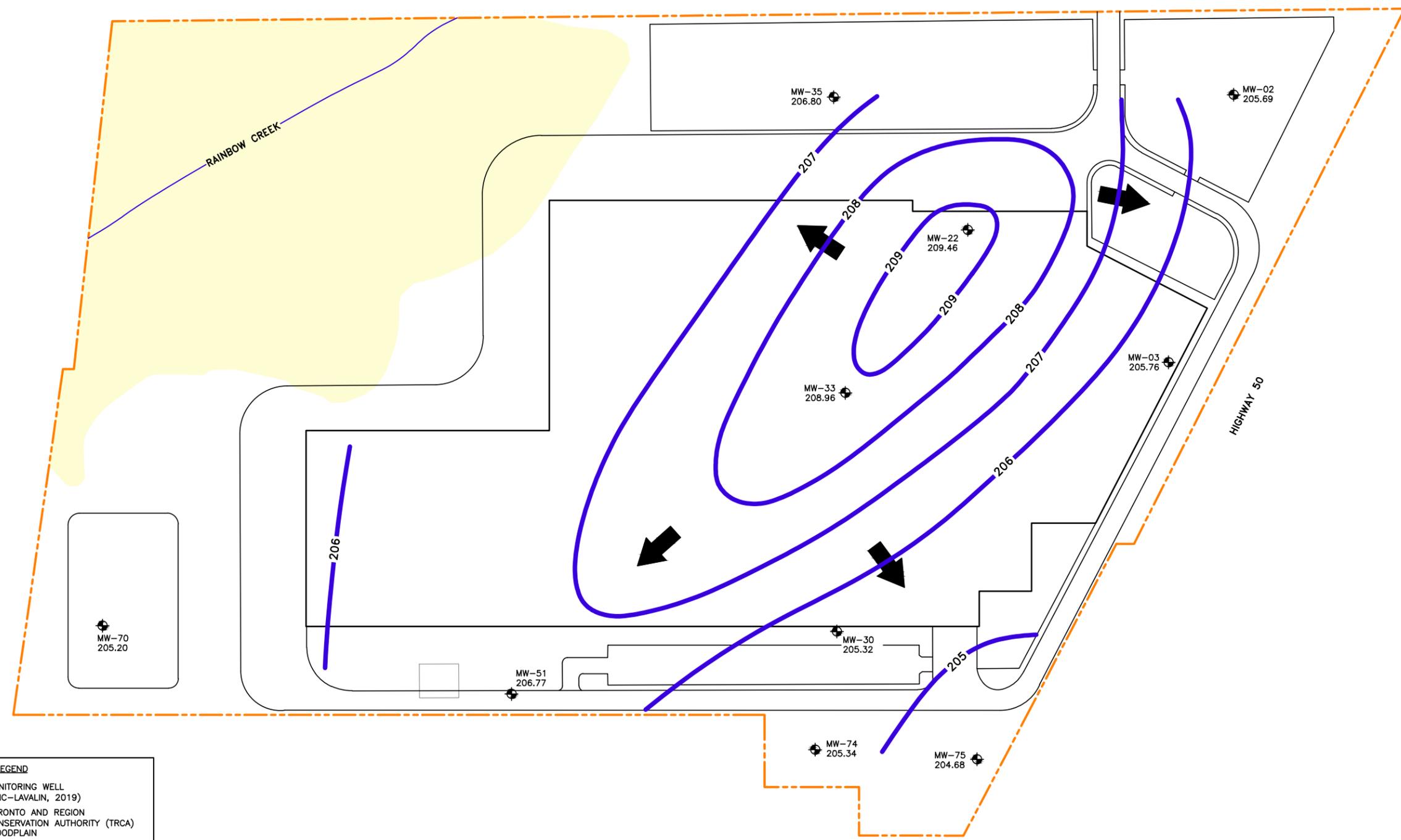
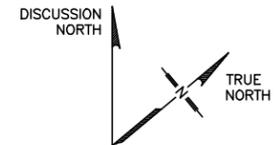
TORONTO AND REGION CONSERVATION AUTHORITY (TRCA) FLOODPLAIN
 PHASE ONE PROPERTY LIMIT
 PROPERTY LINE
 EXISTING BUILDING
AREAS OF POTENTIAL ENVIRONMENTAL CONCERN
 APEC #1
 APEC #2
 APEC #3
 APEC #4
 APEC #5
 APEC #6
 APEC #7

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|--|----------------------------|---|----------------------------|
| Client/Location: CITY OF BRAMPTON 10192 HIGHWAY 50, BRAMPTON, ON | | Title: PHASE ONE CONCEPTUAL SITE MODEL AREAS OF POTENTIAL ENVIRONMENTAL CONCERN | |
| Project No: 665125 | Filename: 005F04_665125 | Date: NOVEMBER 2019 | Dwg No: FIGURE 4 |
| Drawn: AG | Verified: RM | Project Manager: AY | |

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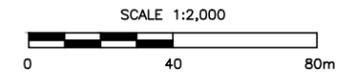


LEGEND

- MONITORING WELL (SNC-LAVALIN, 2019)
- TORONTO AND REGION CONSERVATION AUTHORITY (TRCA) FLOODPLAIN
- SITE PROPERTY LINE
- EXISTING BUILDING
- PROPOSED BUILDING
- PROPOSED INFRASTRUCTURE
- INTERPRETED WATER LEVEL ELEVATION CONTOUR (m)
- WATER LEVEL ELEVATION (m) (OCTOBER 21, 2019)
- INTERPRETED SHALLOW HORIZONTAL GROUNDWATER FLOW DIRECTION

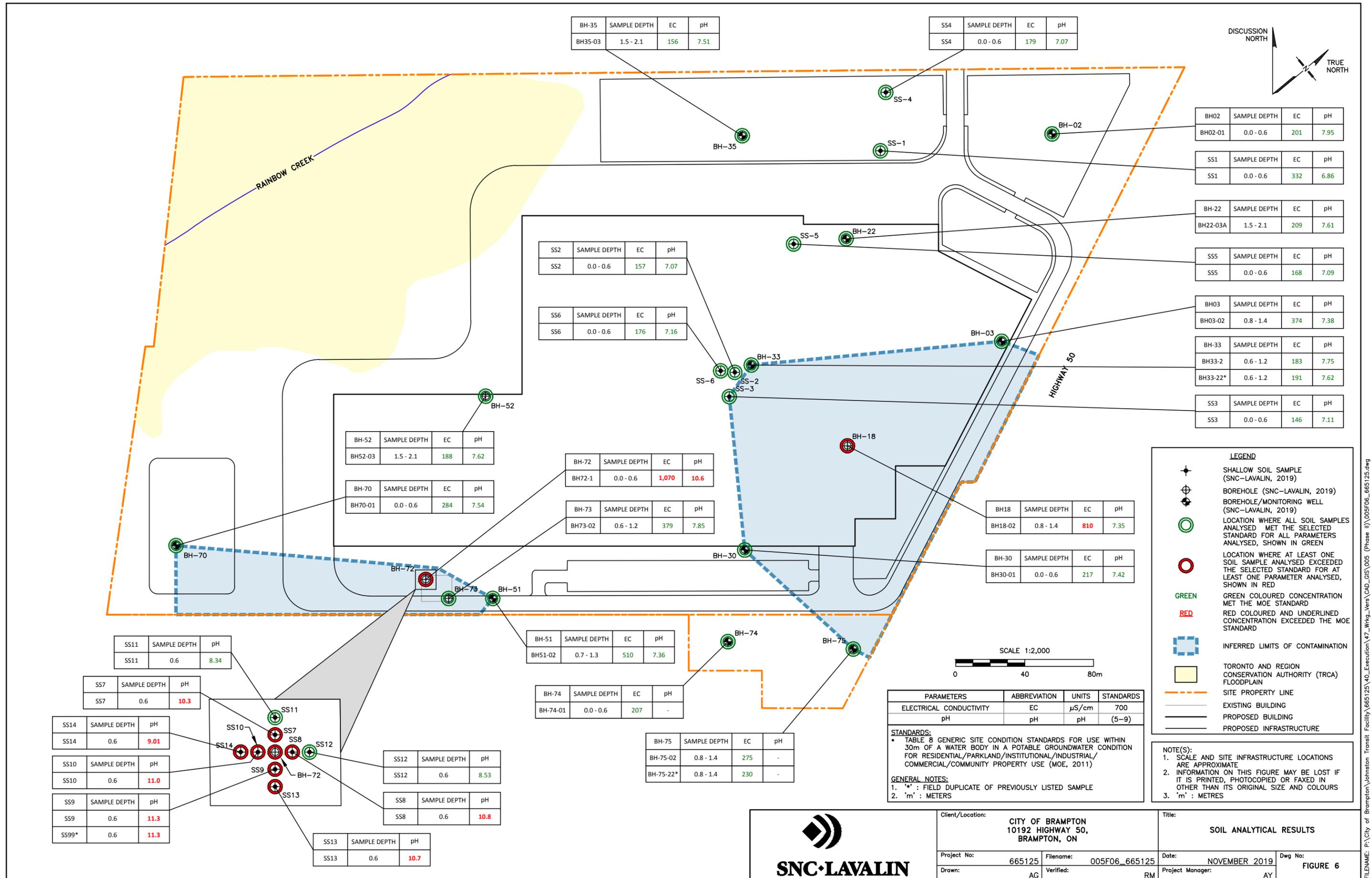
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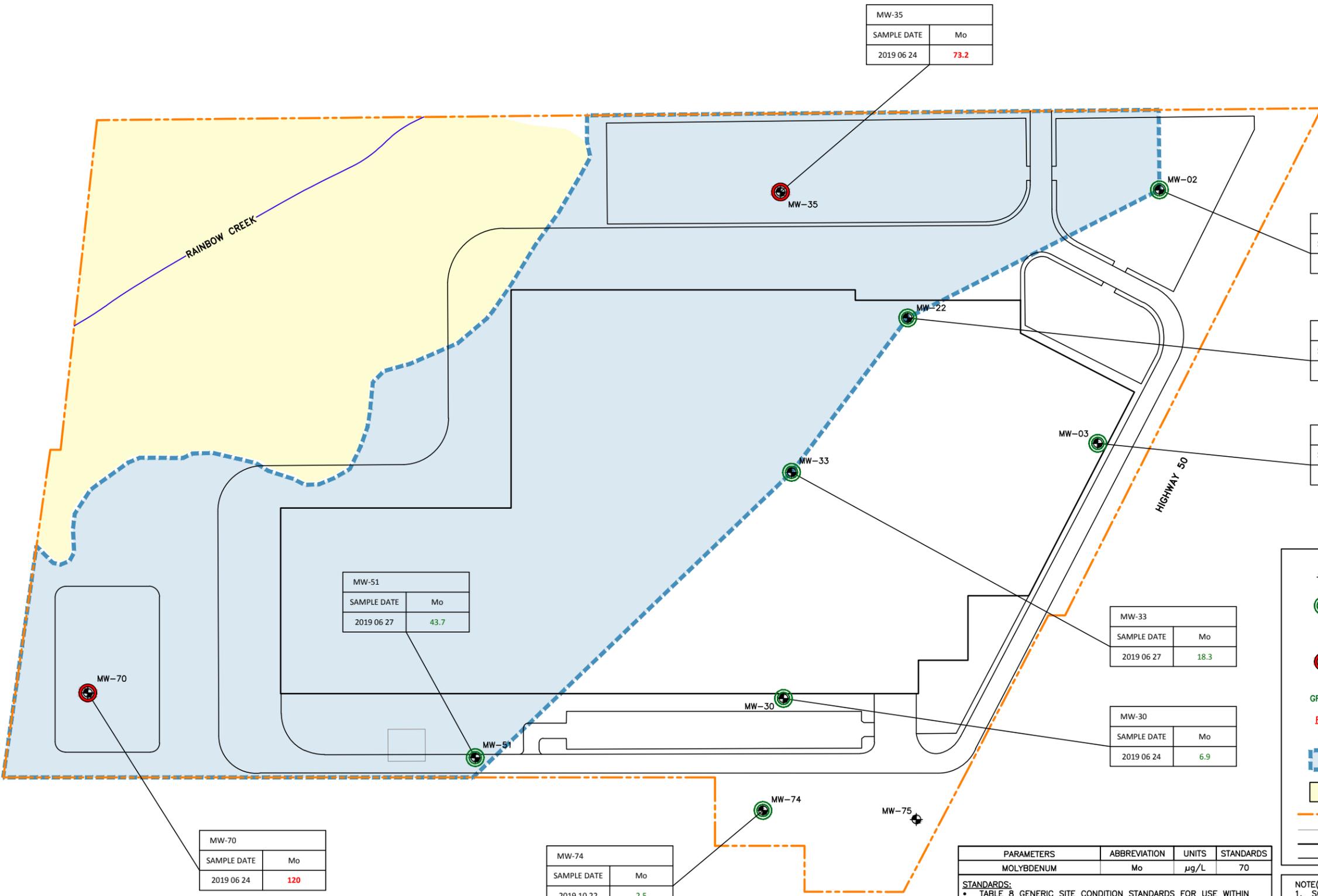
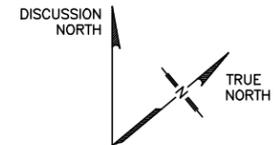
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|------------------|--------|---|---------------|------------------|---------------|--|----------|
| Client/Location: | | CITY OF BRAMPTON 10192 HIGHWAY 50, BRAMPTON, ON | | Title: | | INTERPRETED SHALLOW HORIZONTAL GROUNDWATER FLOW DIRECTION (OCTOBER 21, 2019) | |
| Project No: | 665125 | Filename: | 005F05_665125 | Date: | NOVEMBER 2019 | Dwg No: | FIGURE 5 |
| Drawn: | AG | Verified: | RM | Project Manager: | AY | | |

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| Client/Location: | | CITY OF BRAMPTON 10192 HIGHWAY 50, BRAMPTON, ON | | Title: | | SOIL ANALYTICAL RESULTS | |
| Project No: | 665125 | Filename: | 005F06_665125 | Date: | NOVEMBER 2019 | Dwg No: | FIGURE 6 |
| Drawn: | AG | Verified: | RM | Project Manager: | AY | | |

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| MW-35 | |
|-------------|-------------|
| SAMPLE DATE | Mo |
| 2019 06 24 | <u>73.2</u> |

| MW-02 | |
|-------------|-----|
| SAMPLE DATE | Mo |
| 2019 06 24 | 7.0 |

| MW-22 | |
|-------------|------|
| SAMPLE DATE | Mo |
| 2019 06 25 | 15.7 |

| MW-03 | |
|-------------|------|
| SAMPLE DATE | Mo |
| 2019 06 25 | 14.9 |

| MW-51 | |
|-------------|------|
| SAMPLE DATE | Mo |
| 2019 06 27 | 43.7 |

| MW-33 | |
|-------------|------|
| SAMPLE DATE | Mo |
| 2019 06 27 | 18.3 |

| MW-30 | |
|-------------|-----|
| SAMPLE DATE | Mo |
| 2019 06 24 | 6.9 |

| MW-70 | |
|-------------|------------|
| SAMPLE DATE | Mo |
| 2019 06 24 | <u>120</u> |

| MW-74 | |
|-------------|-----|
| SAMPLE DATE | Mo |
| 2019 10 22 | 2.5 |

LEGEND

- MONITORING WELL (SNC-LAVALIN, 2019)
- LOCATION WHERE MOST RECENT GROUNDWATER SAMPLE MET STANDARDS FOR ALL PARAMETERS THAT WERE ANALYSED, SHOWN IN GREEN
- LOCATION WHERE MOST RECENT GROUNDWATER SAMPLE EXCEEDED STANDARDS FOR AT LEAST ONE PARAMETER THAT WAS ANALYSED, SHOWN IN RED
- GREEN** GREEN COLOURED CONCENTRATION MET THE MOE STANDARD
- RED** RED COLOURED AND UNDERLINED CONCENTRATION EXCEEDED THE MOE STANDARD
- INFERRED LIMITS OF CONTAMINATION
- TORONTO AND REGION CONSERVATION AUTHORITY (TRCA) FLOODPLAIN
- SITE PROPERTY LINE
- EXISTING BUILDING
- PROPOSED BUILDING
- PROPOSED INFRASTRUCTURE

| PARAMETERS | ABBREVIATION | UNITS | STANDARDS |
|------------|--------------|-------|-----------|
| MOLYBDENUM | Mo | µg/L | 70 |

STANDARDS:

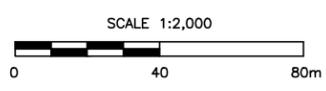
- TABLE 8 GENERIC SITE CONDITION STANDARDS FOR USE WITHIN 30m OF A WATER BODY IN A POTABLE GROUNDWATER CONDITION FOR ALL TYPES OF PROPERTY USE (MOE, 2011)

GENERAL NOTES:

- 'm' : METERS

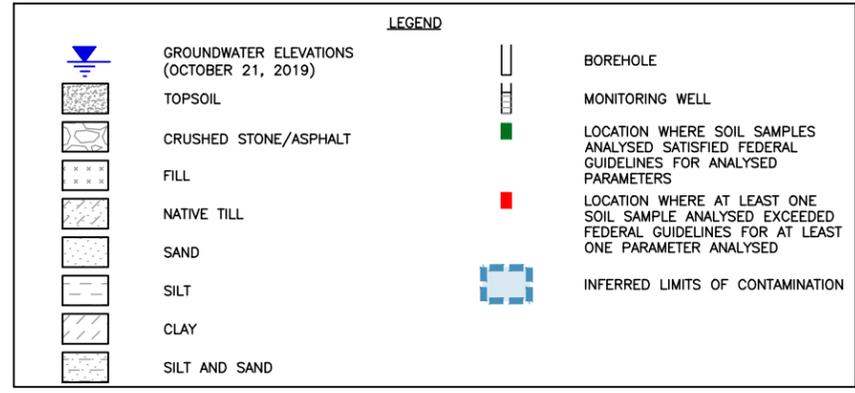
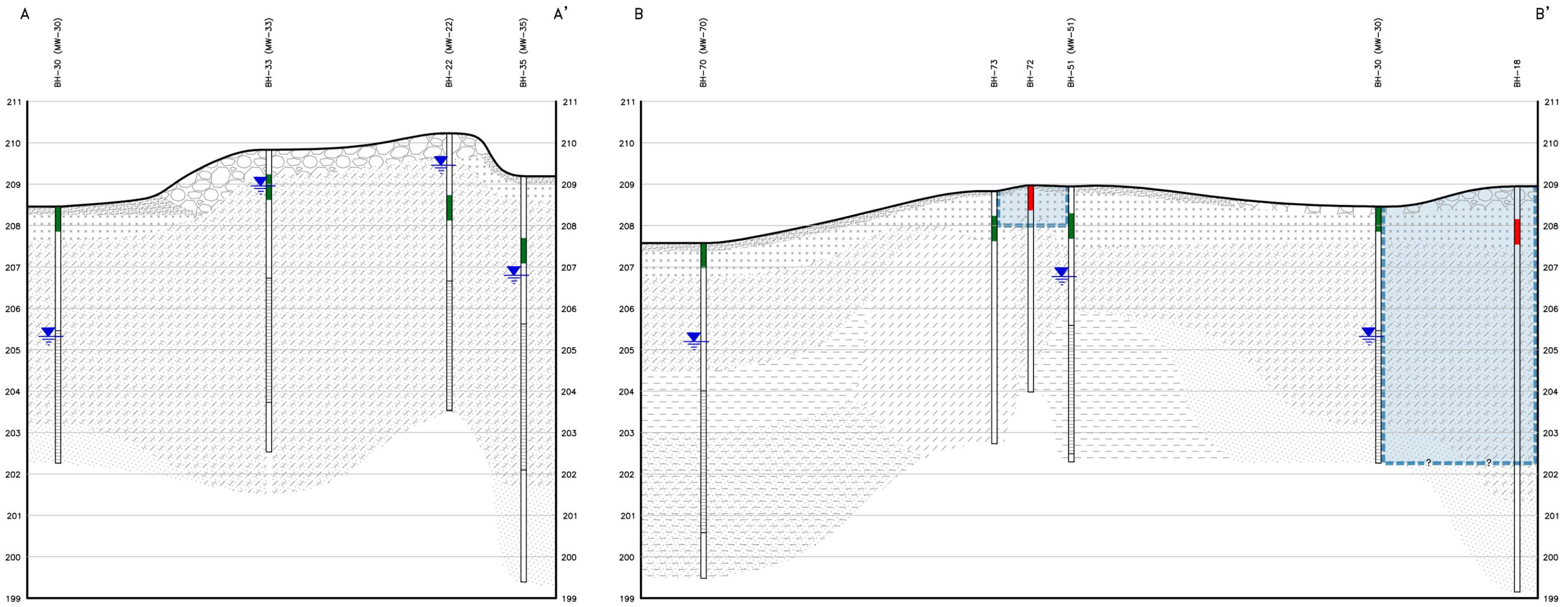
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- 'm' : METRES

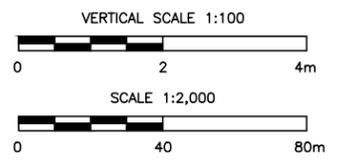


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|------------------|--------|---|---------------|------------------|---------------|--------------------------------|----------|
| Client/Location: | | CITY OF BRAMPTON 10192 HIGHWAY 50, BRAMPTON, ON | | Title: | | GROUNDWATER ANALYTICAL RESULTS | |
| Project No: | 665125 | Filename: | 005F07_665125 | Date: | NOVEMBER 2019 | Dwg No: | FIGURE 7 |
| Drawn: | AG | Verified: | RM | Project Manager: | AY | | |

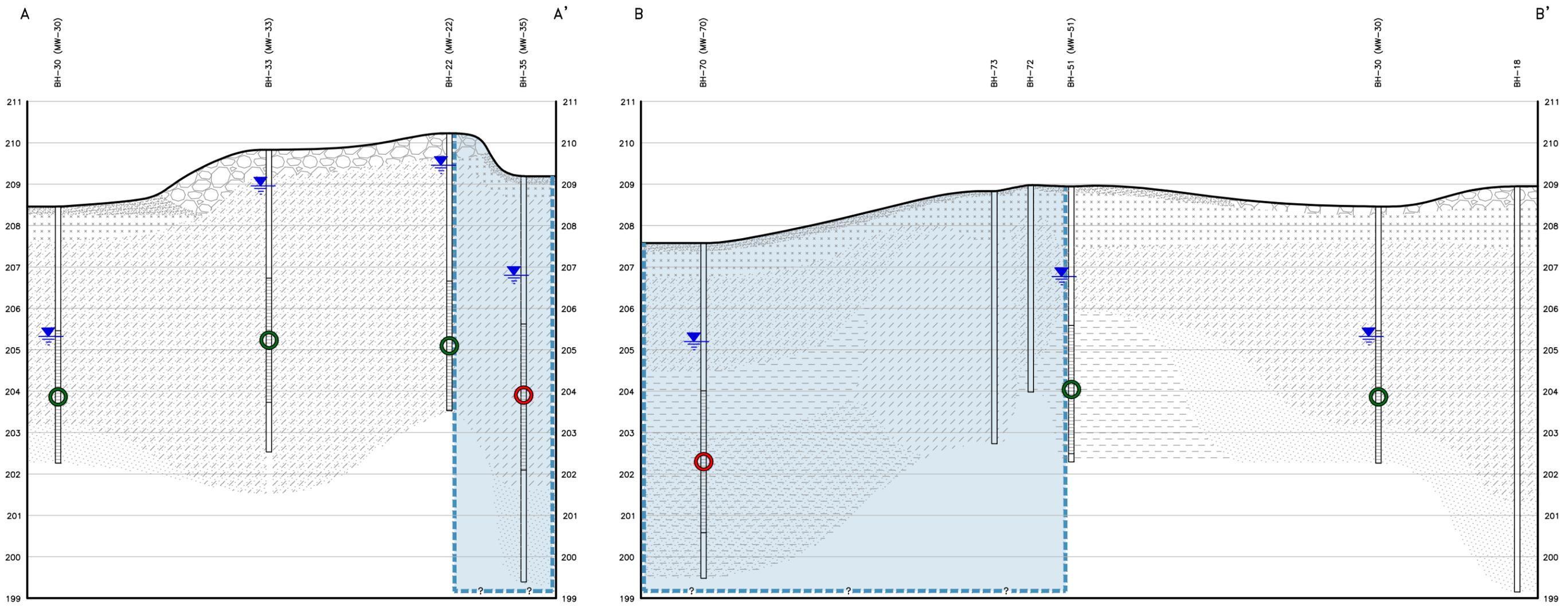
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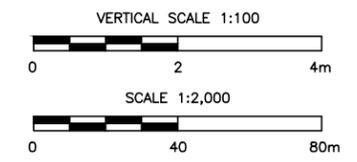


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| | Project No: | 665125 | Filename: | 005F08_665125 | Date: | NOVEMBER 2019 | Dwg No: | FIGURE 8 |
| | Drawn: | AG | Verified: | WW | Project Manager: | AY | | |
| | | | | | | | | |



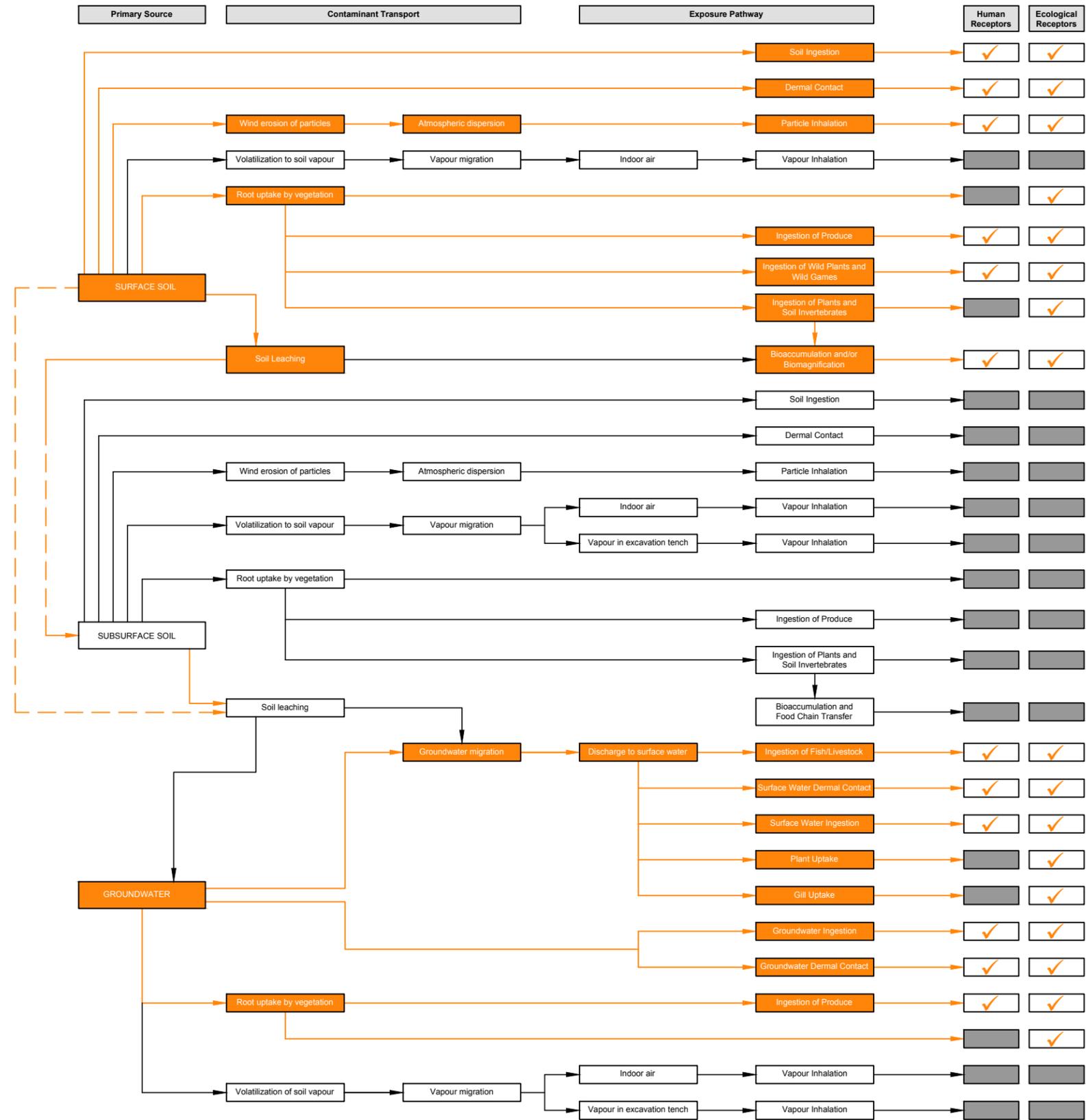
| LEGEND | |
|--------|--|
| | GROUNDWATER ELEVATIONS (OCTOBER 21, 2019) |
| | TOPSOIL |
| | CRUSHED STONE/ASPHALT |
| | FILL |
| | NATIVE TILL |
| | SAND |
| | SILT |
| | CLAY |
| | SILT AND SAND |
| | BOREHOLE |
| | MONITORING WELL |
| | LOCATION WHERE MOST RECENT GROUNDWATER SAMPLE ANALYSED SATISFIED FEDERAL GUIDELINES FOR ANALYSED PARAMETERS |
| | LOCATION WHERE MOST RECENT GROUNDWATER SAMPLE ANALYSED EXCEEDED FEDERAL GUIDELINES FOR AT LEAST ONE PARAMETER ANALYSED |
| | INFERRED LIMITS OF CONTAMINATION |

NOTE(S):
 1. SCALE AND SITE INFRASTRUCTURE LOCATIONS ARE APPROXIMATE
 2. INFORMATION ON THIS FIGURE MAY BE LOST IF IT IS PRINTED, PHOTOCOPIED OR FAXED IN OTHER THAN ITS ORIGINAL SIZE AND COLOURS
 3. 'm' : METRES



| | | | | |
|--------------|--|----------------------------|--|---------------------|
| | Client/Location: CITY OF BRAMPTON 10192 HIGHWAY 50, BRAMPTON, ON | | Title: GENERALIZED GEOLOGICAL CROSS SECTIONS (A-A' AND B-B') WITH GROUNDWATER ANALYTICAL RESULTS FOR METALS/INORGANICS | |
| | Project No: 665125 | Filename: 005F09_665125 | Date: NOVEMBER 2019 | Dwg No: FIGURE 9 |
| Drawn: AG | Verified: WW | Project Manager: AY | | |

FILENAME: P:\City of Brampton\Johnston Transit Facility\665125\40_Execution\47_Wrkgs_Vers\CAD_GIS\005 (Phase II)\005F09_665125.dwg



| LEGEND | |
|--------|------------------------------|
| | POTENTIALLY OPERABLE PATHWAY |
| | INOPERABLE PATHWAY |



| | | | | | |
|------------------|--------|---|---------------|---------------------------------|---------------|
| Client/Location: | | CITY OF BRAMPTON 10192 HIGHWAY 50, BRAMPTON, ON | | Title: CONCEPTUAL SITE MODEL | |
| Project No: | 665125 | Filename: | 005F10_660306 | Date: | NOVEMBER 2019 |
| Drawn: | DM | Verified: | WW | Dwg No: | FIGURE 10 |
| | | | | Project Manager: | AY |

665125

Tables

**TABLE 1: Groundwater Monitoring Results
10192 Highway 50, Brampton, ON**

| Monitoring Location | Top of Riser Elevation ¹ (m asl) | Ground Surface Elevation (m asl) | Screen Interval (m bgs) | Depth to Bottom (m bgs) | Date (yyyy/mm/dd) | Well Riser Headspace Vapour Reading ² | Groundwater Depth (m bgs) | Groundwater Elevation (m asl) |
|---------------------|---|----------------------------------|-------------------------|-------------------------|-------------------|--|---------------------------|-------------------------------|
| MW-02 | 211.00 | 210.10 | 4.6 - 7.2 | 7.62 | 2019-06-27 | <5 | 3.58 | 206.52 * |
| | | | | | 2019-10-21 | <5 | 4.41 | 205.69 * |
| MW-03 | 209.81 | 208.89 | 3.0 - 6.1 | 6.10 | 2019-06-27 | <5 | 2.32 | 206.57 * |
| | | | | | 2019-10-21 | <5 | 3.13 | 205.76 * |
| MW-22 | 211.08 | 210.22 | 2.1 - 6.7 | 6.71 | 2019-06-27 | 25 | 0.33 | 209.89 * |
| | | | | | 2019-10-21 | <5 | 0.76 | 209.46 * |
| MW-30 | 209.36 | 208.48 | 3.7 - 6.7 | 6.71 | 2019-06-27 | 880 | 2.14 | 206.34 * |
| | | | | | 2019-10-21 | <5 | 3.16 | 205.32 * |
| MW-33 | 210.77 | 209.85 | 3.0 - 6.1 | 6.10 | 2019-06-27 | 140 | 2.49 | 207.36 * |
| | | | | | 2019-10-21 | <5 | 0.89 | 208.96 * |
| MW-35 | 210.09 | 209.19 | 2.4 - 7.0 | 7.01 | 2019-06-27 | 335 | 0.64 | 208.55 * |
| | | | | | 2019-10-21 | <5 | 2.39 | 206.80 * |
| MW-51 | 209.94 | 208.94 | 3.7 - 6.7 | 6.71 | 2019-06-27 | 1650 | 6.29 | 202.65 * |
| | | | | | 2019-10-21 | <5 | 2.17 | 206.77 * |
| MW-70 | 208.47 | 207.53 | 3.4 - 6.7 | 6.71 | 2019-06-27 | <5 | 1.36 | 206.17 * |
| | | | | | 2019-10-21 | <5 | 2.33 | 205.20 * |
| MW-74 | 208.82 | 207.93 | 2.6 - 5.6 | 5.60 | 2019-10-21 | <5 | 2.59 | 205.34 * |
| MW-75 | 208.95 | 208.09 | 2.7 - 5.8 | 5.60 | 2019-10-21 | 420 | 3.41 | 204.68 |

Footnotes:

m asl - metres above sea level

m bgs - metres below ground surface

ppmv - parts per million by volume (relative to hexane)

* - water level above top of well screen

¹ Elevations measured relative to a geodetic benchmark above mean sea level (a msl) using a Trimble RX 5800 high precision unit

² Organic Vapour Meter (OVM) readings measured in ppmv unless otherwise noted

**TABLE 2: Soil Analytical Results - Petroleum Parameters
10192 Highway 50, Brampton, ON**

| Sample Location | | | Table 8 ¹ | BH02 | BH03 | BH22 | BH30 | BH33 | BH33 | BH35 | BH51 |
|--|------|-------|----------------------|------------|------------|------------|------------|------------|------------------------|------------|------------|
| Laboratory Sample ID | | | Standard | 265183 | 265186 | 275048 | 268835 | 294696 | 294732 | 275043 | 268852 |
| SNC-Lavalin Sample ID | | | RL/PL/IN_CG | BH02-07 | BH03-07 | BH22-08 | BH30-08 | BH33-7 | BH33-77 | BH35-07 | BH51-08 |
| Sampling Date (yyyy/mm/dd) | | | | 2019/06/10 | 2019/06/10 | 2019/06/12 | 2019/06/11 | 2019/06/19 | 2019/06/19 | 2019/06/12 | 2019/06/11 |
| Depth Interval (mbgs) | | | | 6.1 - 6.7 | 4.6 - 5.2 | 5.3 - 5.9 | 5.3 - 5.9 | 3.7 - 4.3 | 3.7 - 4.3 | 4.6 - 5.2 | 5.3 - 5.9 |
| Field Screen (ppmv) | | | | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Parameter | RDL | Units | | | | | | | Duplicate of BH33-7 | | |
| Volatiles | | | | | | | | | | | |
| Benzene | 0.02 | µg/g | 0.02 | < | < | < | < | < | < | < | < |
| Toluene | 0.05 | µg/g | 0.2 | < | < | < | < | < | < | < | < |
| Ethylbenzene | 0.05 | µg/g | 0.05 | < | < | < | < | < | < | < | < |
| Xylenes | 0.05 | µg/g | 0.05 | < | < | < | < | < | < | < | < |
| Hexane (n) | 0.05 | µg/g | 0.05 | < | < | < | < | < | < | < | < |
| Petroleum Hydrocarbon (PHC) Fractions | | | | | | | | | | | |
| PHC F1 | 5 | µg/g | 25 | < | < | < | < | < | < | < | < |
| PHC F2 | 10 | µg/g | 10 | < | < | < | < | < | < | < | < |
| PHC F3 | 50 | µg/g | 240 | < | < | < | < | < | < | < | < |
| PHC F4 | 50 | µg/g | 120 | < | < | < | < | < | < | < | < |

Footnotes:

Additional terms may be defined within the body of SNC-Lavalin's report.

RDL - Reportable Detection Limit, unless otherwise noted

< - Denotes concentration less than indicated detection limit

"-" - Not analyzed

na - Not applicable

mbgs - metres below ground surface

Field Screen - organic vapour meter reading

Conversion factor of 1% LEL = 110 ppmv applied

ppmv - parts per million by volume (relative to hexane)

µg/g - micrograms per gram, dry weight basis

BOLD Concentration greater than Table 8 Standard

¹ Table 8 generic site condition standards for use within 30 m of a water body in a potable groundwater condition for residential/ parkland/ institutional/ industrial/ commercial/ community property use (MOE, 2011)

**TABLE 2: Soil Analytical Results - Petroleum Parameters
10192 Highway 50, Brampton, ON**

| Sample Location | | | Table 8 ¹ | BH72 | BH73 | BH-74 | BH-75 | BH-75 | SS1 | SS3 | SS5 |
|--|------|-------|----------------------|------------|------------|------------|------------|--------------------------|------------|------------|------------|
| Laboratory Sample ID | | | Standard | 294301 | 294305 | 624926 | 624954 | 624968 | 302489 | 302543 | 302559 |
| SNC-Lavalin Sample ID | | | RL/PL/IN_CG | BH72-8 | BH73-07 | BH-74-06 | BH-75-06 | BH-75-66 | SS1 | SS3 | SS5 |
| Sampling Date (yyyy/mm/dd) | | | | 2019/06/20 | 2019/06/20 | 2019/10/16 | 2019/10/16 | 2019/10/16 | 2019/06/24 | 2019/06/24 | 2019/06/24 |
| Depth Interval (mbgs) | | | | 4.3 - 4.9 | 3.7 - 4.3 | 3.8 - 4.4 | 3.8 - 4.2 | 3.8 - 4.2 | 0.0 - 0.6 | 0.0 - 0.6 | 0.0 - 0.6 |
| Field Screen (ppmv) | | | | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Parameter | RDL | Units | | | | | | Duplicate of BH-75-06 | | | |
| Volatiles | | | | | | | | | | | |
| Benzene | 0.02 | µg/g | 0.02 | < | < | < | < | < | < | < | < |
| Toluene | 0.05 | µg/g | 0.2 | < | < | < | < | < | < | < | < |
| Ethylbenzene | 0.05 | µg/g | 0.05 | < | < | < | < | < | < | < | < |
| Xylenes | 0.05 | µg/g | 0.05 | < | < | < | < | < | < | < | < |
| Hexane (n) | 0.05 | µg/g | 0.05 | < | < | < | < | < | < | < | < |
| Petroleum Hydrocarbon (PHC) Fractions | | | | | | | | | | | |
| PHC F1 | 5 | µg/g | 25 | < | < | < | < | < | < | < | < |
| PHC F2 | 10 | µg/g | 10 | < | < | < | < | < | < | < | < |
| PHC F3 | 50 | µg/g | 240 | < | < | < | < | < | < | < | < |
| PHC F4 | 50 | µg/g | 120 | < | < | < | < | < | < | < | < |

Footnotes:

Additional terms may be defined within the body of SNC-Lavalin's report.

RDL - Reportable Detection Limit, unless otherwise noted

< - Denotes concentration less than indicated detection limit

"-" - Not analyzed

na - Not applicable

mbgs - metres below ground surface

Field Screen - organic vapour meter reading

Conversion factor of 1% LEL = 110 ppmv applied

ppmv - parts per million by volume (relative to hexane)

µg/g - micrograms per gram, dry weight basis

BOLD Concentration greater than Table 8 Standard

¹ Table 8 generic site condition standards for use within 30 m of a water body in a potable groundwater condition for residential/ parkland/ institutional/ industrial/ commercial/ community property use (MOE, 2011)

TABLE 3: Soil Analytical Results - VOC
10192 Highway 50, Brampton, ON

| Sample Location Laboratory Sample ID SNC-Lavalin Sample ID Sampling Date (yyyy/mm/dd) Depth Interval (mbgs) Field Screen (ppmv) | | | Table 8 ¹ Standard RL/PL/IN_CG | BH02 265183 BH02-07 2019/06/10 6.1 - 6.7 <5 | BH03 265186 BH03-07 2019/06/10 4.6 - 5.2 <5 | BH22 275048 BH22-08 2019/06/12 5.3 - 5.9 <5 | BH30 268835 BH30-08 2019/06/11 5.3 - 5.9 <5 | BH33 294696 BH33-7 2019/06/19 3.7 - 4.3 <5 | BH33 294732 BH33-77 2019/06/19 3.7 - 4.3 <5 Duplicate of BH33-7 | BH35 275043 BH35-07 2019/06/12 4.6 - 5.2 <5 | BH51 268852 BH51-08 2019/06/11 5.3 - 5.9 <5 | BH72 294301 BH72-8 2019/06/20 4.3 - 4.9 <5 | BH73 294305 BH73-07 2019/06/20 3.7 - 4.3 <5 |
|--|------|-------|---|--|--|--|--|---|--|--|--|---|--|
| Parameter | RDL | Units | | | | | | | | | | | |
| Volatile Organic Compounds | | | | | | | | | | | | | |
| Acetone | 0.50 | µg/g | 0.5 | < | < | < | < | < | < | < | < | < | < |
| Bromodichloromethane | 0.05 | µg/g | 0.05 | < | < | < | < | < | < | < | < | < | < |
| Bromoform | 0.05 | µg/g | 0.05 | < | < | < | < | < | < | < | < | < | < |
| Bromomethane | 0.05 | µg/g | 0.05 | < | < | < | < | < | < | < | < | < | < |
| Carbon Tetrachloride | 0.05 | µg/g | 0.05 | < | < | < | < | < | < | < | < | < | < |
| Chlorobenzene | 0.05 | µg/g | 0.05 | < | < | < | < | < | < | < | < | < | < |
| Chloroform | 0.04 | µg/g | 0.05 | < | < | < | < | < | < | < | < | < | < |
| Dibromochloromethane | 0.05 | µg/g | 0.05 | < | < | < | < | < | < | < | < | < | < |
| Dichlorobenzene, 1,2- (o-DCB) | 0.05 | µg/g | 0.05 | < | < | < | < | < | < | < | < | < | < |
| Dichlorobenzene, 1,3- (m-DCB) | 0.05 | µg/g | 0.05 | < | < | < | < | < | < | < | < | < | < |
| Dichlorobenzene, 1,4- (p-DCB) | 0.05 | µg/g | 0.05 | < | < | < | < | < | < | < | < | < | < |
| Dichlorodifluoromethane | 0.05 | µg/g | 0.05 | < | < | < | < | < | < | < | < | < | < |
| Dichloroethane, 1,1- | 0.02 | µg/g | 0.05 | < | < | < | < | < | < | < | < | < | < |
| Dichloroethane, 1,2- | 0.03 | µg/g | 0.05 | < | < | < | < | < | < | < | < | < | < |
| Dichloroethylene, 1,1- | 0.05 | µg/g | 0.05 | < | < | < | < | < | < | < | < | < | < |
| Dichloroethylene, cis-1,2- | 0.02 | µg/g | 0.05 | < | < | < | < | < | < | < | < | < | < |
| Dichloroethylene, trans-1,2- | 0.05 | µg/g | 0.05 | < | < | < | < | < | < | < | < | < | < |
| Dichloropropane, 1,2- | 0.03 | µg/g | 0.05 | < | < | < | < | < | < | < | < | < | < |
| Dichloropropene, 1,3- | 0.04 | µg/g | 0.05 | < | < | < | < | < | < | < | < | < | < |
| Ethylene Dibromide (Dibromoethane, 1,2-) | 0.04 | µg/g | 0.05 | < | < | < | < | < | < | < | < | < | < |
| Methyl Ethyl Ketone | 0.50 | µg/g | 0.5 | < | < | < | < | < | < | < | < | < | < |
| Methyl Isobutyl Ketone | 0.50 | µg/g | 0.5 | < | < | < | < | < | < | < | < | < | < |
| Methyl tert butyl ether (MTBE) | 0.05 | µg/g | 0.05 | < | < | < | < | < | < | < | < | < | < |
| Methylene Chloride | 0.05 | µg/g | 0.05 | < | < | < | < | < | < | < | < | < | < |
| Styrene | 0.05 | µg/g | 0.05 | < | < | < | < | < | < | < | < | < | < |
| Tetrachloroethane, 1,1,1,2- | 0.04 | µg/g | 0.05 | < | < | < | < | < | < | < | < | < | < |
| Tetrachloroethane, 1,1,2,2- | 0.05 | µg/g | 0.05 | < | < | < | < | < | < | < | < | < | < |
| Tetrachloroethylene | 0.05 | µg/g | 0.05 | < | < | < | < | < | < | < | < | < | < |
| Trichloroethane, 1,1,1- | 0.05 | µg/g | 0.05 | < | < | < | < | < | < | < | < | < | < |
| Trichloroethane, 1,1,2- | 0.04 | µg/g | 0.05 | < | < | < | < | < | < | < | < | < | < |
| Trichloroethylene | 0.03 | µg/g | 0.05 | < | < | < | < | < | < | < | < | < | < |
| Trichlorofluoromethane | 0.05 | µg/g | 0.25 | < | < | < | < | < | < | < | < | < | < |
| Vinyl Chloride | 0.02 | µg/g | 0.02 | < | < | < | < | < | < | < | < | < | < |

See footnotes on last page

TABLE 3: Soil Analytical Results - VOC
10192 Highway 50, Brampton, ON

| Parameter | Sample Location | | Table 8 ¹ Standard RL/PL/IN_CG | BH-74 | BH-75 | BH-75 | SS1 | SS3 | SS5 |
|--|-----------------|-------|---|---|---|---|--|--|--|
| | RDL | Units | | 624926 BH-74-06 2019/10/16 3.8 - 4.4 <5 | 624954 BH-75-06 2019/10/16 3.8 - 4.2 <5 | 624968 BH-75-66 2019/10/16 3.8 - 4.2 <5 Duplicate of BH-75-06 | 302489 SS1 2019/06/24 0.0 - 0.6 <5 | 302543 SS3 2019/06/24 0.0 - 0.6 <5 | 302559 SS5 2019/06/24 0.0 - 0.6 <5 |
| Volatile Organic Compounds | | | | | | | | | |
| Acetone | 0.50 | µg/g | 0.5 | < | < | < | < | < | < |
| Bromodichloromethane | 0.05 | µg/g | 0.05 | < | < | < | < | < | < |
| Bromoform | 0.05 | µg/g | 0.05 | < | < | < | < | < | < |
| Bromomethane | 0.05 | µg/g | 0.05 | < | < | < | < | < | < |
| Carbon Tetrachloride | 0.05 | µg/g | 0.05 | < | < | < | < | < | < |
| Chlorobenzene | 0.05 | µg/g | 0.05 | < | < | < | < | < | < |
| Chloroform | 0.04 | µg/g | 0.05 | < | < | < | < | < | < |
| Dibromochloromethane | 0.05 | µg/g | 0.05 | < | < | < | < | < | < |
| Dichlorobenzene, 1,2- (o-DCB) | 0.05 | µg/g | 0.05 | < | < | < | < | < | < |
| Dichlorobenzene, 1,3- (m-DCB) | 0.05 | µg/g | 0.05 | < | < | < | < | < | < |
| Dichlorobenzene, 1,4- (p-DCB) | 0.05 | µg/g | 0.05 | < | < | < | < | < | < |
| Dichlorodifluoromethane | 0.05 | µg/g | 0.05 | < | < | < | < | < | < |
| Dichloroethane, 1,1- | 0.02 | µg/g | 0.05 | < | < | < | < | < | < |
| Dichloroethane, 1,2- | 0.03 | µg/g | 0.05 | < | < | < | < | < | < |
| Dichloroethylene, 1,1- | 0.05 | µg/g | 0.05 | < | < | < | < | < | < |
| Dichloroethylene, cis-1,2- | 0.02 | µg/g | 0.05 | < | < | < | < | < | < |
| Dichloroethylene, trans-1,2- | 0.05 | µg/g | 0.05 | < | < | < | < | < | < |
| Dichloropropane, 1,2- | 0.03 | µg/g | 0.05 | < | < | < | < | < | < |
| Dichloropropene, 1,3- | 0.04 | µg/g | 0.05 | < | < | < | < | < | < |
| Ethylene Dibromide (Dibromoethane, 1,2-) | 0.04 | µg/g | 0.05 | < | < | < | < | < | < |
| Methyl Ethyl Ketone | 0.50 | µg/g | 0.5 | < | < | < | < | < | < |
| Methyl Isobutyl Ketone | 0.50 | µg/g | 0.5 | < | < | < | < | < | < |
| Methyl tert butyl ether (MTBE) | 0.05 | µg/g | 0.05 | < | < | < | < | < | < |
| Methylene Chloride | 0.05 | µg/g | 0.05 | < | < | < | < | < | < |
| Styrene | 0.05 | µg/g | 0.05 | < | < | < | < | < | < |
| Tetrachloroethane, 1,1,1,2- | 0.04 | µg/g | 0.05 | < | < | < | < | < | < |
| Tetrachloroethane, 1,1,2,2- | 0.05 | µg/g | 0.05 | < | < | < | < | < | < |
| Tetrachloroethylene | 0.05 | µg/g | 0.05 | < | < | < | < | < | < |
| Trichloroethane, 1,1,1- | 0.05 | µg/g | 0.05 | < | < | < | < | < | < |
| Trichloroethane, 1,1,2- | 0.04 | µg/g | 0.05 | < | < | < | < | < | < |
| Trichloroethylene | 0.03 | µg/g | 0.05 | < | < | < | < | < | < |
| Trichlorofluoromethane | 0.05 | µg/g | 0.25 | < | < | < | < | < | < |
| Vinyl Chloride | 0.02 | µg/g | 0.02 | < | < | < | < | < | < |

See footnotes on last page

TABLE 3: Soil Analytical Results - VOC
10192 Highway 50, Brampton, ON

Footnotes:

Additional terms may be defined within the body of SNC-Lavalin's report.

RDL - Reportable Detection Limit, unless otherwise noted

< - Denotes concentration less than indicated detection limit

"-" - Not analyzed

na - Not applicable

mbgs - metres below ground surface

Field Screen - organic vapour meter reading

Conversion factor of 1% LEL = 110 ppmv applied

ppmv - parts per million by volume (relative to hexane)

µg/g - micrograms per gram, dry weight basis

BOLD Concentration greater than Table 8 Standard

¹ Table 8 generic site condition standards for use within 30 m of a water body in a potable groundwater condition for residential/ parkland/ institutional/ industrial/ commercial/ community property use (MOE, 2011)

TABLE 4: Soil Analytical Results - PAH
10192 Highway 50, Brampton, ON

| Sample Location Laboratory Sample ID SNC-Lavalin Sample ID Sampling Date (yyyy/mm/dd) Depth Interval (mbgs) | | | Table 8 ¹ Standard RL/PL/IN CG | BH02 265182 BH02-02 2019/06/10 0.8 - 1.4 | BH03 265185 BH03-01 2019/06/10 0.0 - 0.6 | BH22 275045 BH22-03 2019/06/12 1.5 - 2.1 | BH30 268831 BH30-02 2019/06/11 0.8 - 1.3 | BH33 294694 BH33-3 2019/06/19 1.2 - 1.8 | BH51 268851 BH51-02 2019/06/11 0.7 - 1.3 | BH72 294299 BH72-3 2019/06/20 1.2 - 1.8 | BH73 294303 BH73-02 2019/06/20 0.6 - 1.2 | BH-74 624922 BH-74-01 2019/10/16 0.0 - 0.6 | BH-75 624941 BH-75-02 2019/10/16 0.8 - 1.4 |
|---|------|------|---|--|--|--|--|---|--|---|--|--|--|
| Parameter | RDL | unit | | | | | | | | | | | |
| Polycyclic Aromatic Hydrocarbons | | | | | | | | | | | | | |
| Acenaphthene | 0.05 | µg/g | 0.072 | < | < | < | < | < | < | < | < | < | < |
| Acenaphthylene | 0.05 | µg/g | 0.093 | < | < | < | < | < | < | < | < | < | < |
| Anthracene | 0.05 | µg/g | 0.22 | < | < | < | < | < | < | < | < | < | < |
| Benzo(a)anthracene | 0.05 | µg/g | 0.36 | < | < | < | < | < | < | < | < | < | < |
| Benzo(a)pyrene | 0.05 | µg/g | 0.3 | < | < | < | < | < | < | < | < | < | < |
| Benzo(b)fluoranthene | 0.05 | µg/g | 0.47 | < | < | < | < | < | < | < | < | < | < |
| Benzo(g,h,i)perylene | 0.05 | µg/g | 0.68 | < | < | < | < | < | < | < | < | < | < |
| Benzo(k)fluoranthene | 0.05 | µg/g | 0.48 | < | < | < | < | < | < | < | < | < | < |
| Chrysene | 0.05 | µg/g | 2.8 | < | < | < | < | < | < | < | < | < | < |
| Dibenzo(a,h)anthracene | 0.05 | µg/g | 0.1 | < | < | < | < | < | < | < | < | < | < |
| Fluoranthene | 0.05 | µg/g | 0.69 | < | < | < | < | < | < | < | < | < | < |
| Fluorene | 0.05 | µg/g | 0.19 | < | < | < | < | < | < | < | < | < | < |
| Indeno(1,2,3-cd)pyrene | 0.05 | µg/g | 0.23 | < | < | < | < | < | < | < | < | < | < |
| Methylnaphthalene, 1- & 2- | 0.05 | µg/g | 0.59 ² | < | < | < | < | < | < | < | < | < | < |
| Naphthalene | 0.05 | µg/g | 0.09 | < | < | < | < | < | < | < | < | < | < |
| Phenanthrene | 0.05 | µg/g | 0.69 | < | < | < | < | < | < | < | < | < | < |
| Pyrene | 0.05 | µg/g | 1 | < | < | < | < | < | < | < | < | < | < |

Footnotes:

Additional terms may be defined within the body of SNC-Lavalin's report.

RDL - Reportable Detection Limit, unless otherwise noted

< - Denotes concentration less than indicated detection limit

"-" - Not analyzed

na - Not applicable

mbgs - metres below ground surface

Field Screen - organic vapour meter reading

Conversion factor of 1% LEL = 110 ppmv applied

ppmv - parts per million by volume (relative to hexane)

µg/g - micrograms per gram, dry weight basis

BOLD Concentration greater than Table 8 Standard

¹ Table 8 generic site condition standards for use within 30 m of a water body in a potable groundwater condition for residential/parkland/institutional/industrial/commercial/community property use (MOE, 2011)

² Standard applies to both 1- and 2- methylnaphthalene, with the provision that if both are detected the sum of the two must not exceed the standard.

TABLE 4: Soil Analytical Results - PAH
10192 Highway 50, Brampton, ON

| Sample Location Laboratory Sample ID SNC-Lavalin Sample ID Sampling Date (yyyy/mm/dd) Depth Interval (mbgs) | | | Table 8 ¹ Standard RL/PL/IN CG | SS2 302513 SS2 2019/06/24 0.0 - 0.6 | SS6 302561 SS6 2019/06/24 0.0 - 0.6 |
|---|------|------|---|---|---|
| Parameter | RDL | unit | | | |
| Polycyclic Aromatic Hydrocarbons | | | | | |
| Acenaphthene | 0.05 | µg/g | 0.072 | < | < |
| Acenaphthylene | 0.05 | µg/g | 0.093 | < | < |
| Anthracene | 0.05 | µg/g | 0.22 | < | < |
| Benzo(a)anthracene | 0.05 | µg/g | 0.36 | < | < |
| Benzo(a)pyrene | 0.05 | µg/g | 0.3 | < | < |
| Benzo(b)fluoranthene | 0.05 | µg/g | 0.47 | < | < |
| Benzo(g,h,i)perylene | 0.05 | µg/g | 0.68 | < | < |
| Benzo(k)fluoranthene | 0.05 | µg/g | 0.48 | < | < |
| Chrysene | 0.05 | µg/g | 2.8 | < | < |
| Dibenzo(a,h)anthracene | 0.05 | µg/g | 0.1 | < | < |
| Fluoranthene | 0.05 | µg/g | 0.69 | < | < |
| Fluorene | 0.05 | µg/g | 0.19 | < | < |
| Indeno(1,2,3-cd)pyrene | 0.05 | µg/g | 0.23 | < | < |
| Methylnaphthalene, 1- & 2- | 0.05 | µg/g | 0.59 ² | < | < |
| Naphthalene | 0.05 | µg/g | 0.09 | < | < |
| Phenanthrene | 0.05 | µg/g | 0.69 | < | < |
| Pyrene | 0.05 | µg/g | 1 | < | < |

Footnotes:

Additional terms may be defined within the body of SNC-Lavalin's report.

RDL - Reportable Detection Limit, unless otherwise noted

< - Denotes concentration less than indicated detection limit

"-" - Not analyzed

na - Not applicable

mbgs - metres below ground surface

Field Screen - organic vapour meter reading

Conversion factor of 1% LEL = 110 ppmv applied

ppmv - parts per million by volume (relative to hexane)

µg/g - micrograms per gram, dry weight basis

BOLD Concentration greater than Table 8 Standard

¹ Table 8 generic site condition standards for use within 30 m of a water bod

² Standard applies to both 1- and 2- methylnaphthalene, with the provision th

TABLE 5: Soil Analytical Results - Pesticides and Herbicides
10192 Highway 50, Brampton, ON

| Parameter | Sample Location | | Table 8 ¹ Standard RL/PL/IN_CG | BH02 | BH03 | BH18 | BH22 | BH30 | BH33 | BH35 |
|--|----------------------------|-----------------------|---|------------|------------|------------|------------|------------|------------|------------|
| | Laboratory Sample ID | SNC-Lavalin Sample ID | | 265181 | 265184 | 265187 | 275045 | 268398 | 294694 | 274941 |
| | Sampling Date (yyyy/mm/dd) | Depth Interval (mbgs) | | BH02-01 | BH03-02 | BH18-02 | BH22-03 | BH30-01 | BH33-3 | BH35-03 |
| | RDL | Units | | 2019/06/10 | 2019/06/10 | 2019/06/10 | 2019/06/12 | 2019/06/11 | 2019/06/19 | 2019/06/12 |
| | | | | 0.0 - 0.6 | 0.8 - 1.4 | 0.8 - 1.4 | 1.5 - 2.1 | 0.0 - 0.6 | 1.2 - 1.8 | 1.5 - 2.1 |
| Organochlorine Pesticides | | | | | | | | | | |
| Aldrin | 0.005 | µg/g | 0.05 | < | < | - | < | < | < | < |
| Chlordane (Total) | 0.007 | µg/g | 0.05 | < | < | - | < | < | < | < |
| Chlordane, alpha- | 0.005 | µg/g | na | < | < | - | - | < | - | - |
| Chlordane, gamma- | 0.005 | µg/g | na | < | < | - | - | < | - | - |
| DDD, o,p- | 0.005 | µg/g | na | < | < | - | - | < | - | - |
| DDD, p,p- | 0.005 | µg/g | 0.05 | < | < | - | - | < | - | - |
| DDD (Total) | 0.007 | µg/g | 0.05 | < | < | - | < | < | < | < |
| DDE, o,p- | 0.005 | µg/g | na | < | < | - | - | < | - | - |
| DDE, p,p- | 0.005 | µg/g | 0.05 | < | < | - | - | < | - | - |
| DDE (Total) | 0.007 | µg/g | 0.05 | < | < | - | < | < | < | < |
| DDT, o,p- | 0.005 | µg/g | na | < | < | - | - | < | - | - |
| DDT, p,p- | 0.005 | µg/g | na | < | < | - | < 0.007 | < | < 0.007 | < 0.007 |
| DDT (Total) | 0.007 | µg/g | 1.4 | < | < | - | - | < | - | - |
| Dieldrin | 0.005 | µg/g | 0.05 | < | < | - | < | < | < | < |
| Endosulfan (Total) | 0.005 | µg/g | 0.04 | < 0.007 | < 0.007 | - | < | < 0.007 | < | < |
| Endrin | 0.005 | µg/g | 0.04 | < | < | - | < | < | < | < |
| Heptachlor | 0.005 | µg/g | 0.05 | < | < | - | < | < | < | < |
| Heptachlor Epoxide | 0.005 | µg/g | 0.05 | < | < | - | < | < | < | < |
| Hexachlorobenzene | 0.005 | µg/g | 0.02 | - | - | - | < | - | < | < |
| Hexachlorobutadiene | 0.01 | µg/g | 0.01 | - | - | - | < | - | < | < |
| Hexachlorocyclohexane, alpha- (BHC) | 0.005 | µg/g | na | < | < | - | - | < | - | - |
| Hexachlorocyclohexane, gamma- (Lindane) | 0.005 | µg/g | 0.01 | - | - | - | < | - | < | < |
| Hexachloroethane | 0.01 | µg/g | 0.01 | - | - | - | < | - | < | < |
| Methoxychlor | 0.005 | µg/g | 0.05 | < | < | - | < | < | < | < |
| Herbicides | | | | | | | | | | |
| 2,4-Dichlorophenoxyacetic Acid | 0.10 | µg/g | na | < 1.00 | < | < | < | < | < | < |
| 2,4,5-Trichlorophenoxyacetic Acid | 0.10 | µg/g | na | < 1.00 | < | < | < | < | < | < |
| 2-(2,4,5-Trichlorophenoxy) propionic acid (Silvex) | 0.10 | µg/g | na | < 1.00 | < | < | < | < | < | < |
| 4-chloro-2-methyl phenoxy acetic acid | 1.0 | µg/g | na | < 10.0 | < | < | < | < | < | < |
| Bromoxynil | 0.5 | µg/g | na | < 5.0 | < | < | < | < | < | < |
| Dicamba | 0.10 | µg/g | na | < 1.00 | < | < | < | < | < | < |
| Diclofop-methyl | 0.10 | µg/g | na | < 1.00 | < | < | < | < | < | < |
| Dichlorprop | 0.10 | µg/g | na | < 1.00 | < | < | < | < | < | < |
| Dinoseb | 0.10 | µg/g | na | < 1.00 | < | < | < | < | < | < |
| Mecoprop | 1.0 | µg/g | na | < 10.0 | < | < | < | < | < | < |
| Picloram | 0.10 | µg/g | na | < 1.00 | < | < | < | < | < | < |

See footnotes on last page

TABLE 5: Soil Analytical Results - Pesticides and Herbicides
10192 Highway 50, Brampton, ON

| Parameter | Sample Location | | Table 8 ¹ Standard RL/PL/IN_CG | BH51 | BH52 | BH70 | BH72 | SS2 | SS6 |
|--|----------------------------|-----------------------|---|------------|------------|------------|------------|------------|------------|
| | Laboratory Sample ID | SNC-Lavalin Sample ID | | 268851 | 275049 | 268853 | 294298 | 302513 | 302561 |
| | Sampling Date (yyyy/mm/dd) | Depth Interval (mbgs) | | BH51-02 | BH52-03 | BH70-01 | BH72-2 | SS2 | SS6 |
| | RDL | Units | | 2019/06/11 | 2019/06/12 | 2019/06/11 | 2019/06/20 | 2019/06/24 | 2019/06/24 |
| | | | | 0.7 - 1.3 | 1.5 - 2.1 | 0.0 - 0.6 | 0.6 - 1.2 | 0.0 - 0.6 | 0.0 - 0.6 |
| Organochlorine Pesticides | | | | | | | | | |
| Aldrin | 0.005 | µg/g | 0.05 | < | < | < | < | < | < |
| Chlordane (Total) | 0.007 | µg/g | 0.05 | < | < | < | < | < | < |
| Chlordane, alpha- | 0.005 | µg/g | na | < | - | < | - | - | - |
| Chlordane, gamma- | 0.005 | µg/g | na | < | - | < | - | - | - |
| DDD, o,p- | 0.005 | µg/g | na | < | - | < | - | - | - |
| DDD, p,p- | 0.005 | µg/g | 0.05 | < | - | < | - | - | - |
| DDD (Total) | 0.007 | µg/g | 0.05 | < | < | < | < | < | < |
| DDE, o,p- | 0.005 | µg/g | na | < | - | < | - | - | - |
| DDE, p,p- | 0.005 | µg/g | 0.05 | < | - | < | - | - | - |
| DDE (Total) | 0.007 | µg/g | 0.05 | < | < | < | < | < | < |
| DDT, o,p- | 0.005 | µg/g | na | < | - | < | - | - | - |
| DDT, p,p- | 0.005 | µg/g | na | < | < 0.007 | < | < 0.007 | < 0.007 | < 0.007 |
| DDT (Total) | 0.007 | µg/g | 1.4 | < | - | < | - | - | - |
| Dieldrin | 0.005 | µg/g | 0.05 | < | < | < | < | < | < |
| Endosulfan (Total) | 0.005 | µg/g | 0.04 | < 0.007 | < | < 0.007 | < | < | < |
| Endrin | 0.005 | µg/g | 0.04 | < | < | < | < | < | < |
| Heptachlor | 0.005 | µg/g | 0.05 | < | < | < | < | < | < |
| Heptachlor Epoxide | 0.005 | µg/g | 0.05 | < | < | < | < | < | < |
| Hexachlorobenzene | 0.005 | µg/g | 0.02 | - | < | - | < | < | < |
| Hexachlorobutadiene | 0.01 | µg/g | 0.01 | - | < | - | < | < | < |
| Hexachlorocyclohexane, alpha- (BHC) | 0.005 | µg/g | na | < | - | < | - | - | - |
| Hexachlorocyclohexane, gamma- (Lindane) | 0.005 | µg/g | 0.01 | - | < | - | < | < | < |
| Hexachloroethane | 0.01 | µg/g | 0.01 | - | < | - | < | < | < |
| Methoxychlor | 0.005 | µg/g | 0.05 | < | < | < | < | < | < |
| Herbicides | | | | | | | | | |
| 2,4-Dichlorophenoxyacetic Acid | 0.10 | µg/g | na | < | < | < | < | < | < |
| 2,4,5-Trichlorophenoxyacetic Acid | 0.10 | µg/g | na | < | < | < | < | < | < |
| 2-(2,4,5-Trichlorophenoxy) propionic acid (Silvex) | 0.10 | µg/g | na | < | < | < | < | < | < |
| 4-chloro-2-methyl phenoxy acetic acid | 1.0 | µg/g | na | < | < | < | < | < | < |
| Bromoxynil | 0.5 | µg/g | na | < | < | < | < | < | < |
| Dicamba | 0.10 | µg/g | na | < | < | < | < | < | < |
| Diclofop-methyl | 0.10 | µg/g | na | < | < | < | < | < | < |
| Dichlorprop | 0.10 | µg/g | na | < | < | < | < | < | < |
| Dinoseb | 0.10 | µg/g | na | < | < | < | < | < | < |
| Mecoprop | 1.0 | µg/g | na | < | < | < | < | < | < |
| Picloram | 0.10 | µg/g | na | < | < | < | < | < | < |

See footnotes on last page

**TABLE 5: Soil Analytical Results - Pesticides and Herbicides
10192 Highway 50, Brampton, ON**

Footnotes:

Additional terms may be defined within the body of SNC-Lavalin's report.

RDL - Reportable Detection Limit, unless otherwise noted

< - Denotes concentration less than indicated detection limit

"-" - Not analyzed

na - Not applicable

mbgs - metres below ground surface

µg/g - micrograms per gram, dry weight basis

BOLD Concentration greater than Table 8 Standard

¹ Table 8 generic site condition standards for use within 30 m of a water body in a potable groundwater condition for residential/ parkland/ institutional/ industrial/ commercial/ community property use (MOE, 2011)

TABLE 6: Soil Analytical Results - Metals and General Chemistry
10192 Highway 50, Brampton, ON

| Sample Location Laboratory Sample ID SNC-Lavalin Sample ID Sampling Date (yyyy/mm/dd) Depth Interval (mbgs) | | | Table 8 ¹ Standard RL/PL/IN_CG | BH02 265181 BH02-01 2019/06/10 0.0 - 0.6 | BH03 265184 BH03-02 2019/06/10 0.8 - 1.4 | BH18 265187 BH18-02 2019/06/10 0.8 - 1.4 | BH22 275045 BH22-03 2019/06/12 1.5 - 2.1 | BH30 268398 BH30-01 2019/06/11 0.0 - 0.6 | BH33 294685 BH33-2 2019/06/19 0.6 - 1.2 | BH33 294693 BH33-22 2019/06/19 0.6 - 1.2 Duplicate of BH33 | BH35 274941 BH35-03 2019/06/12 1.5 - 2.1 | BH51 268851 BH51-02 2019/06/11 0.7 - 1.3 | BH52 275049 BH52-03 2019/06/12 1.5 - 2.1 | BH70 268853 BH70-01 2019/06/11 0.0 - 0.6 |
|---|-------|-------|---|--|--|--|--|--|---|--|--|--|--|--|
| Parameter | RDL | Units | | | | | | | | | | | | |
| General Chemistry | | | | | | | | | | | | | | |
| Free Cyanide | 0.040 | µg/g | 0.051 | < | < | < | < | < | < | < | < | < | < | < |
| Electrical Conductivity | 5 | µS/cm | 700 | 151 | 374 | 810 | 209 | 217 | 183 | 191 | 156 | 510 | 188 | 284 |
| pH ² | - | pH | (5-9) | 7.95 | 7.38 | 7.35 | 7.61 | 7.42 | 7.75 | 7.62 | 7.51 | 7.36 | 7.62 | 7.54 |
| Sodium Adsorption Ratio | - | None | 5 | 0.263 | 0.834 | 2.87 | 0.297 | 0.424 | 0.451 | 0.455 | 0.281 | 1.02 | 0.307 | 0.414 |
| Total Metals | | | | | | | | | | | | | | |
| Aluminum | 50 | µg/g | na | - | - | - | - | - | - | - | - | - | - | - |
| Antimony | 0.8 | µg/g | 1.3 | < | < | < | < | < | < | < | < | < | < | < |
| Arsenic | 1 | µg/g | 18 | 3 | 4 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Barium | 2 | µg/g | 220 | 21 | 158 | 102 | 62 | 93 | 81 | 98 | 58 | 125 | 61 | 176 |
| Beryllium | 0.5 | µg/g | 2.5 | < | 0.7 | 0.6 | 0.5 | 0.7 | < | 0.5 | 0.5 | 0.9 | < | 1.1 |
| Bismuth | 0.1 | µg/g | na | - | - | - | - | - | - | - | - | - | - | - |
| Boron | 5 | µg/g | 36 | 5 | 11 | 10 | < | 5 | 7 | 8 | 5 | < | 5 | 9 |
| Boron (Hot Water Soluble) | 0.10 | µg/g | 1.5 | 0.15 | 0.13 | < | < | 0.13 | < | < | 0.12 | 0.29 | 0.11 | 0.14 |
| Cadmium | 0.5 | µg/g | 1.2 | < | < | < | < | < | < | < | < | < | < | < |
| Chromium (total) | 2 | µg/g | 70 | 8 | 34 | 26 | 17 | 25 | 19 | 22 | 17 | 28 | 17 | 37 |
| Chromium (VI) | 0.2 | µg/g | 0.66 | < | < | < | < | < | < | < | < | < | < | < |
| Cobalt | 0.5 | µg/g | 22 | 2.5 | 12.6 | 9.6 | 9.6 | 10.9 | 9.1 | 10.0 | 9.4 | 12.3 | 10.0 | 14.8 |
| Copper | 1 | µg/g | 92 | 10 | 22 | 17 | 20 | 21 | 18 | 18 | 21 | 23 | 20 | 26 |
| Iron | 500 | µg/g | na | - | - | - | - | - | - | - | - | - | - | - |
| Lead | 1 | µg/g | 120 | 34 | 12 | 8 | 8 | 9 | 8 | 9 | 8 | 13 | 8 | 13 |
| Lithium | 0.5 | µg/g | na | - | - | - | - | - | - | - | - | - | - | - |
| Manganese | 5 | µg/g | na | - | - | - | - | - | - | - | - | - | - | - |
| Mercury | 0.10 | µg/g | 0.27 | < | < | < | < | < | < | < | < | < | < | < |
| Molybdenum | 0.5 | µg/g | 2 | 1.1 | < | < | < | < | < | < | < | < | < | < |
| Nickel | 1 | µg/g | 82 | 14 | 28 | 23 | 20 | 25 | 21 | 24 | 20 | 28 | 20 | 34 |
| Phosphorous | 5 | µg/g | na | - | - | - | - | - | - | - | - | - | - | - |
| Selenium | 0.4 | µg/g | 1.5 | 0.4 | 0.4 | 0.4 | < | < | < | < | < | 0.5 | < | 0.4 |
| Silicon | 5 | µg/g | na | - | - | - | - | - | - | - | - | - | - | - |
| Silver | 0.2 | µg/g | 0.5 | < | < | < | < | < | < | < | < | < | < | < |
| Strontium | 5 | µg/g | na | - | - | - | - | - | - | - | - | - | - | - |
| Thallium | 0.4 | µg/g | 1 | < | < | < | < | < | < | < | < | < | < | < |
| Titanium | 50 | µg/g | na | - | - | - | - | - | - | - | - | - | - | - |
| Uranium | 0.5 | µg/g | 2.5 | < | 0.5 | 0.5 | < | < | < | < | 0.5 | 0.5 | 0.6 | 0.6 |
| Vanadium | 1 | µg/g | 86 | 30 | 47 | 35 | 26 | 35 | 29 | 31 | 25 | 39 | 24 | 49 |
| Zinc | 5 | µg/g | 290 | 56 | 65 | 47 | 43 | 53 | 46 | 46 | 42 | 66 | 41 | 67 |
| Zirconium | 0.5 | µg/g | na | - | - | - | - | - | - | - | - | - | - | - |

See footnotes on last page

TABLE 6: Soil Analytical Results - Metals and General Chem
10192 Highway 50, Brampton, ON

| Sample Location Laboratory Sample ID SNC-Lavalin Sample ID Sampling Date (yyyy/mm/dd) Depth Interval (mbgs) | | | Table 8 ¹ Standard RL/PL/IN_CG | BH72 294297 BH72-1 2019/06/20 0.0 - 0.6 | BH73 294303 BH73-02 2019/06/20 0.6 - 1.2 | BH-74 624922 BH-74-01 2019/10/16 0.0 - 0.6 | BH-75 624941 BH-75-02 2019/10/16 0.8 - 1.4 | BH-75 624953 BH-75-22 2019/10/16 0.8 - 1.4 Duplicate of BH-75 | SS1 302489 SS1 2019/06/24 0.0 - 0.6 | SS2 302513 SS2 2019/06/24 0.0 - 0.6 | SS3 302543 SS3 2019/06/24 0.0 - 0.6 | SS4 302549 SS4 2019/06/24 0.0 - 0.6 | SS5 302559 SS5 2019/06/24 0.0 - 0.6 | SS6 302561 SS6 2019/06/24 0.0 - 0.6 |
|---|-------|-------|---|---|--|--|--|---|---|---|---|---|---|---|
| Parameter | RDL | Units | | | | | | | | | | | | |
| General Chemistry | | | | | | | | | | | | | | |
| Free Cyanide | 0.040 | µg/g | 0.051 | < | < | - | - | - | < | < | < | < | < | < |
| Electrical Conductivity | 5 | µS/cm | 700 | 1,070 | 379 | 207 | 275 | 230 | 332 | 157 | 146 | 179 | 168 | 176 |
| pH ² | - | pH | (5-9) | 10.6 | 7.85 | - | - | - | 6.86 | 7.07 | 7.11 | 7.07 | 7.09 | 7.16 |
| Sodium Adsorption Ratio | - | None | 5 | 0.853 | 0.544 | 0.343 | 0.969 | 0.822 | 0.561 | 0.355 | 0.180 | 0.369 | 0.275 | 0.440 |
| Total Metals | | | | | | | | | | | | | | |
| Aluminum | 50 | µg/g | na | - | - | 24,600 | 27,400 | 17,900 | - | - | - | - | - | - |
| Antimony | 0.8 | µg/g | 1.3 | < | < | < | < | < | < | < | < | < | < | < |
| Arsenic | 1 | µg/g | 18 | 4 | 4 | 4 | 4 | 3 | 5 | 4 | 4 | 4 | 4 | 4 |
| Barium | 2 | µg/g | 220 | 59 | 117 | 157 | 175 | 113 | 116 | 111 | 119 | 104 | 107 | 116 |
| Beryllium | 0.5 | µg/g | 2.5 | < | < | 0.9 | 1.0 | 0.7 | 0.8 | 0.7 | 0.8 | 0.7 | 0.7 | 0.7 |
| Bismuth | 0.1 | µg/g | na | - | - | 0.2 | 0.2 | 0.1 | - | - | - | - | - | - |
| Boron | 5 | µg/g | 36 | 7 | 6 | 7 | 6 | 7 | 5 | 5 | < | < | 5 | 6 |
| Boron (Hot Water Soluble) | 0.10 | µg/g | 1.5 | 0.47 | < | - | - | - | 0.37 | 0.42 | 0.27 | 0.23 | 0.20 | 0.23 |
| Cadmium | 0.5 | µg/g | 1.2 | < | < | < | < | < | < | < | < | < | < | < |
| Chromium (total) | 2 | µg/g | 70 | 14 | 24 | 34 | 38 | 27 | 28 | 27 | 28 | 27 | 27 | 28 |
| Chromium (VI) | 0.2 | µg/g | 0.66 | < | < | - | - | - | < | < | < | < | < | < |
| Cobalt | 0.5 | µg/g | 22 | 3.9 | 10.0 | 13.8 | 15.2 | 11.4 | 13.2 | 11.8 | 12.4 | 11.7 | 11.7 | 11.7 |
| Copper | 1 | µg/g | 92 | 17 | 21 | 23 | 27 | 20 | 19 | 18 | 18 | 18 | 17 | 17 |
| Iron | 500 | µg/g | na | - | - | 32,200 | 36,600 | 25,500 | - | - | - | - | - | - |
| Lead | 1 | µg/g | 120 | 38 | 10 | 16 | 16 | 10 | 20 | 19 | 23 | 20 | 19 | 19 |
| Lithium | 0.5 | µg/g | na | - | - | 22.6 | 24.2 | 18.0 | - | - | - | - | - | - |
| Manganese | 5 | µg/g | na | - | - | 913 | 1,070 | 670 | - | - | - | - | - | - |
| Mercury | 0.10 | µg/g | 0.27 | < | < | - | - | - | < | < | < | < | < | < |
| Molybdenum | 0.5 | µg/g | 2 | 1.0 | < | < | < | < | < | < | < | < | < | < |
| Nickel | 1 | µg/g | 82 | 10 | 23 | 30 | 33 | 25 | 22 | 21 | 22 | 20 | 20 | 21 |
| Phosphorous | 5 | µg/g | na | - | - | 920 | 813 | 756 | - | - | - | - | - | - |
| Selenium | 0.4 | µg/g | 1.5 | < | 0.4 | < 0.8 | < 0.8 | < 0.8 | 0.6 | 0.5 | 0.6 | 0.5 | 0.4 | 0.4 |
| Silicon | 5 | µg/g | na | - | - | 990 | 881 | 920 | - | - | - | - | - | - |
| Silver | 0.2 | µg/g | 0.5 | < | < | < 0.4 | < 0.4 | < 0.4 | < | < | < | < | < | < |
| Strontium | 5 | µg/g | na | - | - | 49 | 31 | 117 | - | - | - | - | - | - |
| Thallium | 0.4 | µg/g | 1 | < | < | < | < | < | < | < | < | < | < | < |
| Titanium | 50 | µg/g | na | - | - | 270 | 311 | 279 | - | - | - | - | - | - |
| Uranium | 0.5 | µg/g | 2.5 | 0.5 | 0.5 | 0.72 | 0.64 | 0.63 | 0.8 | 0.7 | 0.8 | 0.7 | 0.7 | 0.7 |
| Vanadium | 1 | µg/g | 86 | 21 | 34 | 44 | 47 | 36 | 45 | 43 | 45 | 42 | 43 | 45 |
| Zinc | 5 | µg/g | 290 | 93 | 55 | 84 | 93 | 61 | 78 | 74 | 74 | 72 | 70 | 73 |
| Zirconium | 0.5 | µg/g | na | - | - | 3.8 | 5.7 | 5.6 | - | - | - | - | - | - |

See footnotes on last page

TABLE 6: Soil Analytical Results - Metals and General Chem
10192 Highway 50, Brampton, ON

| Sample Location Laboratory Sample ID SNC-Lavalin Sample ID Sampling Date (yyyy/mm/dd) Depth Interval (mbgs) | | | Table 8 ¹ Standard RL/PL/IN_CG | SS7 624888 SS7 2019/10/16 0.0 - 0.6 | SS8 624891 SS8 2019/10/16 0.0 - 0.6 | SS9 624892 SS9 2019/10/16 0.0 - 0.6 | SS9 624893 SS9 2019/10/16 0.0 - 0.6 Duplicate of SS9 | SS10 624894 SS10 2019/10/16 0.0 - 0.6 | SS11 624895 SS11 2019/10/16 0.0 - 0.6 | SS12 624896 SS12 2019/10/16 0.0 - 0.6 | SS13 624897 SS13 2019/10/16 0.0 - 0.6 | SS14 624898 SS14 2019/10/16 0.0 - 0.6 |
|---|-------|-------|---|---|---|---|--|---|---|---|---|---|
| Parameter | RDL | Units | | | | | | | | | | |
| General Chemistry | | | | | | | | | | | | |
| Free Cyanide | 0.040 | µg/g | 0.051 | - | - | - | - | - | - | - | - | - |
| Electrical Conductivity | 5 | µS/cm | 700 | - | - | - | - | - | - | - | - | - |
| pH ² | - | pH | (5-9) | 10.3 | 10.8 | 11.3 | 11.3 | 11.0 | 8.34 | 8.53 | 10.7 | 9.01 |
| Sodium Adsorption Ratio | - | None | 5 | - | - | - | - | - | - | - | - | - |
| Total Metals | | | | | | | | | | | | |
| Aluminum | 50 | µg/g | na | - | - | - | - | - | - | - | - | - |
| Antimony | 0.8 | µg/g | 1.3 | - | - | - | - | - | - | - | - | - |
| Arsenic | 1 | µg/g | 18 | - | - | - | - | - | - | - | - | - |
| Barium | 2 | µg/g | 220 | - | - | - | - | - | - | - | - | - |
| Beryllium | 0.5 | µg/g | 2.5 | - | - | - | - | - | - | - | - | - |
| Bismuth | 0.1 | µg/g | na | - | - | - | - | - | - | - | - | - |
| Boron | 5 | µg/g | 36 | - | - | - | - | - | - | - | - | - |
| Boron (Hot Water Soluble) | 0.10 | µg/g | 1.5 | - | - | - | - | - | - | - | - | - |
| Cadmium | 0.5 | µg/g | 1.2 | - | - | - | - | - | - | - | - | - |
| Chromium (total) | 2 | µg/g | 70 | - | - | - | - | - | - | - | - | - |
| Chromium (VI) | 0.2 | µg/g | 0.66 | - | - | - | - | - | - | - | - | - |
| Cobalt | 0.5 | µg/g | 22 | - | - | - | - | - | - | - | - | - |
| Copper | 1 | µg/g | 92 | - | - | - | - | - | - | - | - | - |
| Iron | 500 | µg/g | na | - | - | - | - | - | - | - | - | - |
| Lead | 1 | µg/g | 120 | - | - | - | - | - | - | - | - | - |
| Lithium | 0.5 | µg/g | na | - | - | - | - | - | - | - | - | - |
| Manganese | 5 | µg/g | na | - | - | - | - | - | - | - | - | - |
| Mercury | 0.10 | µg/g | 0.27 | - | - | - | - | - | - | - | - | - |
| Molybdenum | 0.5 | µg/g | 2 | - | - | - | - | - | - | - | - | - |
| Nickel | 1 | µg/g | 82 | - | - | - | - | - | - | - | - | - |
| Phosphorous | 5 | µg/g | na | - | - | - | - | - | - | - | - | - |
| Selenium | 0.4 | µg/g | 1.5 | - | - | - | - | - | - | - | - | - |
| Silicon | 5 | µg/g | na | - | - | - | - | - | - | - | - | - |
| Silver | 0.2 | µg/g | 0.5 | - | - | - | - | - | - | - | - | - |
| Strontium | 5 | µg/g | na | - | - | - | - | - | - | - | - | - |
| Thallium | 0.4 | µg/g | 1 | - | - | - | - | - | - | - | - | - |
| Titanium | 50 | µg/g | na | - | - | - | - | - | - | - | - | - |
| Uranium | 0.5 | µg/g | 2.5 | - | - | - | - | - | - | - | - | - |
| Vanadium | 1 | µg/g | 86 | - | - | - | - | - | - | - | - | - |
| Zinc | 5 | µg/g | 290 | - | - | - | - | - | - | - | - | - |
| Zirconium | 0.5 | µg/g | na | - | - | - | - | - | - | - | - | - |

See footnotes on last page

**TABLE 6: Soil Analytical Results - Metals and General Chemistry
10192 Highway 50, Brampton, ON**

Footnotes:

Additional terms may be defined within the body of SNC-Lavalin's report.

RDL - Reportable Detection Limit, unless otherwise noted

< - Denotes concentration less than indicated detection limit

"-" - Not analyzed

na - Not applicable

mbgs - metres below ground surface

µg/g - micrograms per gram, dry weight basis

µS/cm - microSiemens per centimetre

BOLD Concentration greater than Table 8 Standard

¹ Table 8 generic site condition standards for use within 30 m of a water body in a potable groundwater condition for residential/parkland/institutional/industrial/commercial/community property use (MOE, 2011)

² acceptable pH range for applying generic standards (O. Reg. 153/04, as amended): 5 to 9 for surface soil (0-1.5 mbg); 5 to 11 for subsurface soil (>1.5 mbg)

TABLE : 7 Soil Analytical Results – Waste Characterization
10192 Highway 50, Brampton, ON

| Parameter | Sample Location | | Leachate Quality Criteria ¹ | COMP-1 294734 COMP-1 2019/06/19 |
|---|----------------------|-----------------------|--|--|
| | Laboratory Sample ID | SNC-Lavalin Sample ID | | |
| | RDL | Units | | |
| <u>Leachable General Chemistry</u> | | | | |
| Cyanide | 0.05 | mg/L | 20 | < |
| Fluoride | 0.05 | mg/L | 150 | 0.24 |
| Nitrate+Nitrite as N | 0.70 | mg/L | 1,000 | < |
| <u>Leachable Metals</u> | | | | |
| Arsenic | 0.010 | mg/L | 2.5 | < |
| Barium | 0.100 | mg/L | 100 | 0.524 |
| Boron | 0.050 | mg/L | 500 | 0.057 |
| Cadmium | 0.010 | mg/L | 0.5 | < |
| Chromium (total) | 0.010 | mg/L | 5 | < |
| Lead | 0.010 | mg/L | 5 | < |
| Mercury | 0.01 | mg/L | 0.1 | < |
| Selenium | 0.010 | mg/L | 1 | < |
| Silver | 0.010 | mg/L | 5 | < |
| Uranium | 0.050 | mg/L | 10 | < |
| <u>Leachable PAHs</u> | | | | |
| Benzo(a)pyrene | 0.001 | mg/L | 0.001 | < |
| <u>Leachable Organochlorine Pesticides</u> | | | | |
| Hexachlorobenzene | 0.004 | mg/L | 0.13 | < |
| Hexachlorobutadiene | 0.004 | mg/L | 0.5 | < |
| Hexachloroethane | 0.004 | mg/L | 3 | < |
| <u>Leachable Volatiles</u> | | | | |
| Benzene | 0.020 | mg/L | 0.5 | < |
| Carbon Tetrachloride | 0.020 | mg/L | 0.5 | < |
| Chlorobenzene | 0.010 | mg/L | 8 | < |
| Chloroform | 0.020 | mg/L | 10 | < |
| 1,2-Dichlorobenzene | 0.010 | mg/L | 20 | < |
| 1,4-Dichlorobenzene | 0.010 | mg/L | 0.5 | < |
| 1,2-Dichloroethane | 0.020 | mg/L | 0.5 | < |
| 1,1-Dichloroethylene | 0.020 | mg/L | 1.4 | < |
| Methylene Chloride | 0.030 | mg/L | 5 | < |
| Methyl Ethyl Ketone | 0.090 | mg/L | 200 | < |
| Tetrachloroethylene | 0.050 | mg/L | 3 | < |
| Trichloroethylene | 0.020 | mg/L | 5 | < |
| Vinyl Chloride | 0.030 | mg/L | 0.2 | < |
| <u>Leachable Semi-Volatiles</u> | | | | |
| Nitrobenzene | 0.004 | mg/L | 2 | < |
| Pyridine | 0.010 | mg/L | 5 | < |

Footnotes:

Additional terms may be defined within the body of SNC-Lavalin's report.

RDL - Reportable Detection Limit, unless otherwise noted

< - Denotes concentration less than indicated detection limit

"-" - Not analyzed

na - Not applicable

mg/L - milligrams per litre

BOLD Concentration greater than Leachate Quality Criteria

¹ Ontario Regulation 347 as amended. "Waste Management". Schedule 4 Leachate Quality Criteria.

**TABLE 8: Groundwater Analytical Results - Petroleum Parameters
10192 Highway 50, Brampton, ON**

| Parameter | Sample Location | | Table 8 ¹ Standard | MW-02 | MW-03 | MW-22 | MW-30 | MW-33 | MW-35 | MW-51 | MW-51 |
|--|-----------------|-------|----------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|--|
| | RDL | Units | | 306302 MW-02 2019/06/24 | 306131 MW-03 2019/06/25 | 306303 MW-22 2019/06/25 | 306340 MW-30 2019/06/24 | 311532 MW-33 2019-06-27 | 306309 MW-35 2019/06/24 | 311538 MW-51 2019/06/24 | 306337 MW-51 2019/06/24 Duplicate of MW-51 |
| Volatiles | | | | | | | | | | | |
| Benzene | 0.20 | µg/L | 5 | < | < | < | < | < | < | < | < |
| Toluene | 0.20 | µg/L | 22 | < | < | < | < | < | < | < | < |
| Ethylbenzene | 0.10 | µg/L | 2.4 | < | < | < | < | < | < | < | < |
| Xylenes | 0.20 | µg/L | 300 | < | < | < | < | < | < | < | < |
| m+p-Xylenes | 0.20 | µg/L | na | < | < | < | < | < | < | < | < |
| o-Xylenes | 0.10 | µg/L | na | < | < | < | < | < | < | < | < |
| Hexane (n) | 0.20 | µg/L | 51 | < | < | < | < | < | < | < | < |
| Petroleum Hydrocarbon (PHC) Fractions | | | | | | | | | | | |
| PHC F1 | 25 | µg/L | 420 | < | < | < | < | < | < | < | < |
| PHC F2 | 100 | µg/L | 150 | < | < | < | < | < | < | < | - |
| PHC F3 | 100 | µg/L | 500 | < | < | < | < | < | < | < | - |
| PHC F4 | 100 | µg/L | 500 | < | < | < | < | < | < | < | - |

Footnotes:

Additional terms may be defined within the body of SNC-Lavalin's report.

RDL - Reportable Detection Limit, unless otherwise noted

< - Denotes concentration less than indicated detection limit

"-" - Not analyzed

na - Not applicable

µg/L – micrograms per litre

BOLD Concentration greater than Table 8 Standard

¹ Table 8 generic site condition standards for use within 30 m of a water body in a potable groundwater condition for all types of property use (MOE, 2011)

**TABLE 8: Groundwater Analytical Results - Petroleum Parameters
10192 Highway 50, Brampton, ON**

| Sample Location Laboratory Sample ID SNC-Lavalin Sample ID Sampling Date (yyyy/mm/dd) | | | Table 8 ¹ Standard | MW-70 306341 MW-70 2019/06/24 | MW-74 640953 MW-74 2019/10/22 | MW-75 640955 MW-75 2019/10/22 | MW-75 640959 MW-755 2019/10/22 Duplicate of MW-75 |
|--|------|-------|----------------------------------|--|--|--|--|
| Parameter | RDL | Units | | | | | |
| Volatiles | | | | | | | |
| Benzene | 0.20 | µg/L | 5 | < | < | 1.8 | 2.2 |
| Toluene | 0.20 | µg/L | 22 | < | < | 1.9 | 1.7 |
| Ethylbenzene | 0.10 | µg/L | 2.4 | < | < | 0.23 | 0.22 |
| Xylenes | 0.20 | µg/L | 300 | < | < | 0.56 | 0.54 |
| m+p-Xylenes | 0.20 | µg/L | na | < | < | 0.33 | 0.31 |
| o-Xylenes | 0.10 | µg/L | na | < | < | 0.23 | 0.23 |
| Hexane (n) | 0.20 | µg/L | 51 | < | < | < | < |
| Petroleum Hydrocarbon (PHC) Fractions | | | | | | | |
| PHC F1 | 25 | µg/L | 420 | < | < | < | < |
| PHC F2 | 100 | µg/L | 150 | < | < | < | < |
| PHC F3 | 100 | µg/L | 500 | < | < | < | < |
| PHC F4 | 100 | µg/L | 500 | < | < | < | < |

Footnotes:

Additional terms may be defined within the body of SNC-Lavalin's report.

RDL - Reportable Detection Limit, unless otherwise noted

< - Denotes concentration less than indicated detection limit

"-" - Not analyzed

na - Not applicable

µg/L – micrograms per litre

BOLD Concentration greater than Table 8 Standard

¹ Table 8 generic site condition standards for use within 30 m of a water body in a potable groundwater condition for all types of property use (MOE, 2011)

TABLE 9: Groundwater Analytical Results - VOC
10192 Highway 50, Brampton, ON

| Sample Location Laboratory Sample ID SNC-Lavalin Sample ID Sampling Date (yyyy/mm/dd) | | | Table 8 ¹ Standard | MW-02 306302 MW-02 2019/06/24 | MW-03 306131 MW-03 2019/06/25 | MW-22 306303 MW-22 2019/06/25 | MW-30 306340 MW-30 2019/06/24 | MW-33 311532 MW-33 2019-06-27 | MW-35 306309 MW-35 2019/06/24 | MW-51 311538 MW-51 2019/06/24 | MW-51 306337 MW-51 2019/06/24 Duplicate of MW-51 | MW-70 306341 MW-70 2019/06/24 | MW-74 640953 MW-74 2019/10/22 | MW-75 640955 MW-75 2019/10/22 | MW-75 640959 MW-755 2019/10/22 Duplicate of MW-75 | |
|--|------|-------|----------------------------------|--|--|--|--|--|--|--|---|--|--|--|--|-----|
| Parameter | RDL | Units | | | | | | | | | | | | | | |
| Volatile Organic Compounds | | | | | | | | | | | | | | | | |
| Acetone | 1.0 | µg/L | 2,700 | < | < | < | < | < | < | < | < | < | < | < | 190 | 230 |
| Bromodichloromethane | 0.20 | µg/L | 16 | < | < | < | < | < | < | < | < | < | < | < | < | < |
| Bromoform | 0.10 | µg/L | 25 | < | < | < | < | < | < | < | < | < | < | < | < | < |
| Bromomethane | 0.20 | µg/L | 0.89 | < | < | < | < | < | < | < | < | < | < | < | < | < |
| Carbon Tetrachloride | 0.20 | µg/L | 0.79 | < | < | < | < | < | < | < | < | < | < | < | < | < |
| Chlorobenzene | 0.10 | µg/L | 30 | < | < | < | < | < | < | < | < | < | < | < | < | < |
| Chloroform | 0.20 | µg/L | 2.4 | < | < | < | < | < | < | < | < | < | < | < | < | < |
| Dibromochloromethane | 0.10 | µg/L | 25 | < | < | < | < | < | < | < | < | < | < | < | < | < |
| Dichlorobenzene, 1,2- (o-DCB) | 0.10 | µg/L | 3 | < | < | < | < | < | < | < | < | < | < | < | < | < |
| Dichlorobenzene, 1,3- (m-DCB) | 0.10 | µg/L | 59 | < | < | < | < | < | < | < | < | < | < | < | < | < |
| Dichlorobenzene, 1,4- (p-DCB) | 0.10 | µg/L | 1 | < | < | < | < | < | < | < | < | < | < | < | < | < |
| Dichlorodifluoromethane | 0.20 | µg/L | 590 | < | < | < | < | < | < | < | < | < | < | < | < | < |
| Dichloroethane, 1,1- | 0.30 | µg/L | 5 | < | < | < | < | < | < | < | < | < | < | < | < | < |
| Dichloroethane, 1,2- | 0.20 | µg/L | 1.6 | < | < | < | < | < | < | < | < | < | < | < | < | < |
| Dichloroethylene, 1,1- | 0.30 | µg/L | 1.6 | < | < | < | < | < | < | < | < | < | < | < | < | < |
| Dichloroethylene, cis-1,2- | 0.20 | µg/L | 1.6 | < | < | < | < | < | < | < | < | < | < | < | < | < |
| Dichloroethylene, trans-1,2- | 0.20 | µg/L | 1.6 | < | < | < | < | < | < | < | < | < | < | < | < | < |
| Dichloropropane, 1,2- | 0.20 | µg/L | 5 | < | < | < | < | < | < | < | < | < | < | < | < | < |
| Dichloropropene, 1,3- | 0.30 | µg/L | 0.5 | < | < | < | < | < | < | < | < | < | < | < | < | < |
| Ethylene Dibromide | 0.10 | µg/L | 0.2 | < | < | < | < | < | < | < | < | < | < | < | < | < |
| Methyl Ethyl Ketone | 1.0 | µg/L | 1,800 | < | < | < | < | < | < | < | < | < | < | < | 9.7 | 12 |
| Methyl Isobutyl Ketone | 1.0 | µg/L | 640 | < | < | < | < | < | < | < | < | < | < | < | 1.2 | 1.3 |
| Methyl tert butyl ether (MTBE) | 0.20 | µg/L | 15 | < | < | < | < | < | < | < | < | < | < | < | < | < |
| Methylene Chloride | 0.30 | µg/L | 50 | < | < | < | < | < | < | < | < | < | < | < | < | < |
| Styrene | 0.10 | µg/L | 5.4 | < | < | < | < | < | < | < | < | < | < | < | 0.98 | 1.0 |
| Tetrachloroethane, 1,1,1,2- | 0.10 | µg/L | 1.1 | < | < | < | < | < | < | < | < | < | < | < | < | < |
| Tetrachloroethane, 1,1,2,2- | 0.10 | µg/L | 1 | < | < | < | < | < | < | < | < | < | < | < | < | < |
| Tetrachloroethylene | 0.20 | µg/L | 1.6 | < | < | < | < | < | < | < | < | < | < | < | < | < |
| Trichloroethane, 1,1,1- | 0.30 | µg/L | 200 | < | < | < | < | < | < | < | < | < | < | < | < | < |
| Trichloroethane, 1,1,2- | 0.20 | µg/L | 4.7 | < | < | < | < | < | < | < | < | < | < | < | < | < |
| Trichloroethylene | 0.20 | µg/L | 1.6 | < | < | < | < | < | < | < | < | < | < | < | < | < |
| Trichlorofluoromethane | 0.40 | µg/L | 150 | < | < | < | < | < | < | < | < | < | < | < | < | < |
| Vinyl Chloride | 0.17 | µg/L | 0.5 | < | < | < | < | < | < | < | < | < | < | < | < | < |

See footnotes on last page

**TABLE 9: Groundwater Analytical Results - VOC
10192 Highway 50, Brampton, ON**

Footnotes:

Additional terms may be defined within the body of SNC-Lavalin's report.

RDL - Reportable Detection Limit, unless otherwise noted

< - Denotes concentration less than indicated detection limit

"-" - Not analyzed

na - Not applicable

µg/L – micrograms per litre

BOLD Concentration greater than Table 8 Standard

¹ Table 8 generic site condition standards for use within 30 m of a water body in a potable groundwater condition for all types of property use (MOE, 2011)

TABLE 10: Groundwater Analytical Results - PAH
10192 Highway 50, Brampton, ON

| Parameter | Sample Location | | Table 8 ¹ Standard | MW-02 | MW-03 | MW-22 | MW-30 | MW-33 | MW-35 | MW-70 | MW-74 |
|---|-----------------|-------|----------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| | RDL | Units | | 306302 MW-02 2019/06/24 | 306131 MW-03 2019/06/25 | 306303 MW-22 2019/06/25 | 306340 MW-30 2019/06/24 | 311532 MW-33 2019-06-27 | 306309 MW-35 2019/06/24 | 306341 MW-70 2019/06/24 | 640953 MW-74 2019/10/22 |
| Polycyclic Aromatic Hydrocarbons | | | | | | | | | | | |
| Acenaphthene | 0.20 | µg/L | 4.1 | < | < | < | < | < | < | < | < |
| Acenaphthylene | 0.20 | µg/L | 1 | < | < | < | < | < | < | < | < |
| Anthracene | 0.10 | µg/L | 1 | < | < | < | < | < | < | < | < |
| Benzo(a)anthracene | 0.20 | µg/L | 1 | < | < | < | < | < | < | < | < |
| Benzo(a)pyrene | 0.01 | µg/L | 0.01 | < | < | < | < | < | < | < | < |
| Benzo(b)fluoranthene | 0.10 | µg/L | 0.1 | < | < | < | < | < | < | < | < |
| Benzo(g,h,i)perylene | 0.20 | µg/L | 0.2 | < | < | < | < | < | < | < | < |
| Benzo(k)fluoranthene | 0.10 | µg/L | 0.1 | < | < | < | < | < | < | < | < |
| Chrysene | 0.10 | µg/L | 0.1 | < | < | < | < | < | < | < | < |
| Dibenzo(a,h)anthracene | 0.20 | µg/L | 0.2 | < | < | < | < | < | < | < | < |
| Fluoranthene | 0.20 | µg/L | 0.41 | < | < | < | < | < | < | < | < |
| Fluorene | 0.20 | µg/L | 120 | < | < | < | < | < | < | < | < |
| Indeno(1,2,3-cd)pyrene | 0.20 | µg/L | 0.2 | < | < | < | < | < | < | < | < |
| Methylnaphthalene, 1- & 2- | 0.20 | µg/L | 3.2 ² | < | < | < | < | < | < | < | < |
| Naphthalene | 0.20 | µg/L | 11 | < | < | < | < | < | < | < | < |
| Phenanthrene | 0.10 | µg/L | 1 | < | < | < | < | < | < | < | < |
| Pyrene | 0.20 | µg/L | 4.1 | < | < | < | < | < | < | < | < |

Footnotes:

Additional terms may be defined within the body of SNC-Lavalin's report.

RDL - Reportable Detection Limit, unless otherwise noted

< - Denotes concentration less than indicated detection limit

"-" - Not analyzed

na - Not applicable

µg/L – micrograms per litre

BOLD Concentration greater than Table 8 Standard

¹ Table 8 generic site condition standards for use within 30 m of a water body in a potable groundwater condition for all types of property use (MOE, 2011)

² Standard applies to both 1- and 2- methylnaphthalene, with the provision that if both are detected the sum of the two must not exceed the standard.

TABLE 11: Groundwater Analytical Results - Metals and General Chemistry
10192 Highway 50, Brampton, ON

| Sample Location Laboratory Sample ID SNC-Lavalin Sample ID Sampling Date (yyyy/mm/dd) | | | Table 8 ¹ Standard | MW-02 306302 MW-02 2019/06/24 | MW-03 306131 MW-03 2019/06/25 | MW-22 306303 MW-22 2019/06/25 | MW-30 306340 MW-30 2019/06/24 | MW-33 311532 MW-33 2019-06-27 | MW-35 306309 MW-35 2019/06/24 | MW-51 311538 MW-51 2019/06/24 | MW-70 306341 MW-70 2019/06/24 | MW-74 640953 MW-74 2019/10/22 |
|--|-------|-------|----------------------------------|--|--|--|--|--|--|--|--|--|
| Parameter | RDL | Units | | | | | | | | | | |
| General Chemistry | | | | | | | | | | | | |
| Chloride | 0.5 | mg/L | 790 | < | 149 | 25.2 | 51.2 | 49.5 | 10.5 | 72.4 | 23.5 | 39 |
| Cyanide (CN-) | 0.002 | mg/L | 0.052 | < | < | < | < | < | < | 0.005 | < | < |
| Electrical Conductivity | 2 | µS/cm | na | 953 | 1,100 | 1,230 | 1,040 | 1,190 | 1,170 | 1,160 | 975 | 818 |
| pH | - | pH | na | 7.82 | 7.71 | 7.88 | 7.84 | 7.86 | 8.00 | 7.85 | 7.98 | 7.90 |
| Dissolved Metals | | | | | | | | | | | | |
| Antimony | 1.0 | µg/L | 6 | - | - | - | - | - | - | - | - | < |
| Arsenic | 1.0 | µg/L | 25 | - | - | - | - | - | - | - | - | 1.0 |
| Barium | 2.0 | µg/L | 1,000 | 131 | 56.8 | 79.4 | 86.4 | 123 | 68.0 | 92.6 | 67.3 | 114 |
| Beryllium | 0.5 | µg/L | 4 | < | < | < | < | < | < | < | < | < |
| Boron | 10.0 | µg/L | 5,000 | 82.3 | 73.6 | 53.1 | 49.5 | 73.5 | 68.3 | 137 | 155 | 37.2 |
| Cadmium | 0.2 | µg/L | 2.1 | < | < | < | < | < | < | < | < | < |
| Chromium (Total) | 2.0 | µg/L | 50 | < | < | < | < | < | < | < | < | < |
| Chromium (VI) | 5 | µg/L | 25 | < | < | < | < | < | < | < | < | < |
| Cobalt | 0.5 | µg/L | 3.8 | < | 1.5 | 0.9 | 1.0 | 0.8 | 0.6 | 0.5 | < | 0.8 |
| Copper | 1.0 | µg/L | 69 | < | < | < | < | 1.0 | 2.5 | 1.6 | < | < |
| Lead | 0.5 | µg/L | 10 | < | < | < | < | < | < | < | < | < |
| Mercury | 0.02 | µg/L | 0.29 | < | < | < | < | < | < | < | < | < |
| Molybdenum | 0.5 | µg/L | 70 | 7.0 | 14.9 | 15.7 | 6.9 | 18.3 | 73.2 | 43.7 | 120 | 2.5 |
| Nickel | 1.0 | µg/L | 100 | < | < | < | < | < | < | < | 1.0 | 1.5 |
| Selenium | 1.0 | µg/L | 10 | - | - | - | - | - | - | - | - | < |
| Silver | 0.2 | µg/L | 1.2 | < | < | < | < | < | < | < | < | < |
| Sodium | 500 | µg/L | 490,000 | 26,200 | 83,400 | 25,400 | 29,400 | 28,600 | 59,300 | 43,600 | 93,400 | 13,400 |
| Thallium | 0.3 | µg/L | 2 | < | < | < | < | < | < | < | < | < |
| Uranium | 0.5 | µg/L | 20 | < | 1.2 | 6.7 | 3.2 | 7.8 | 3.8 | 5.4 | 2.5 | 4.3 |
| Vanadium | 0.4 | µg/L | 6.2 | < | < | < | < | 0.9 | < | 1.0 | < | 0.7 |
| Zinc | 5.0 | µg/L | 890 | < | < | < | < | 12.0 | < | 10.8 | 19.7 | < |

Footnotes:

Additional terms may be defined within the body of SNC-Lavalin's report.

RDL - Reportable Detection Limit, unless otherwise noted

< - Denotes concentration less than indicated detection limit

"-" - Not analyzed

na - Not applicable

µg/L – micrograms per litre

µS/cm - microSiemens per centimetre

mg/L - milligrams per litre

BOLD Concentration greater than Table 8 Standard

¹ Table 8 generic site condition standards for use within 30 m of a water body in a potable groundwater condition for all types of property use (MOE, 2011)

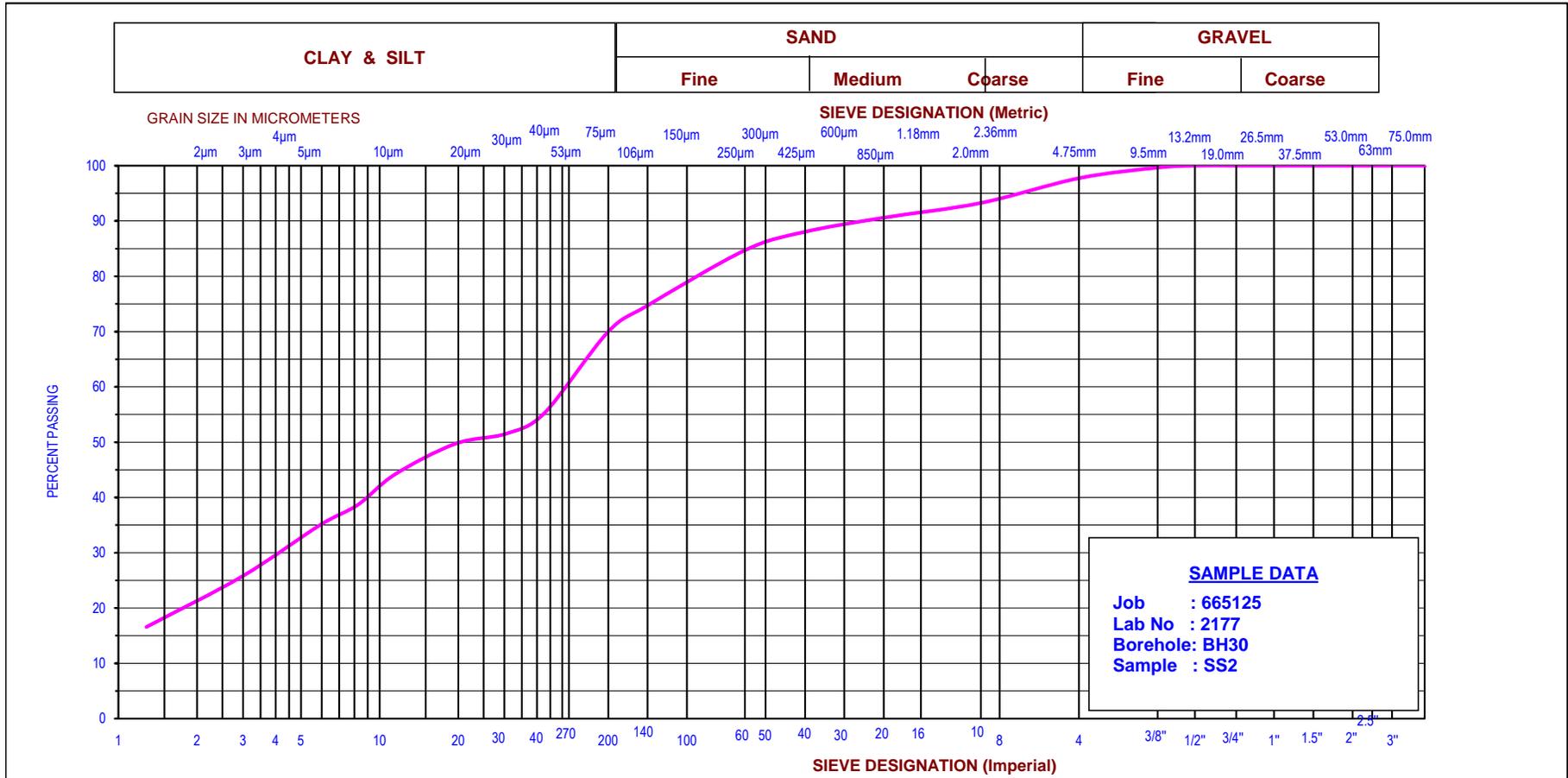
Appendix A

Grain Size Analysis



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UNIFIED SOIL CLASSIFICATION SYSTEM



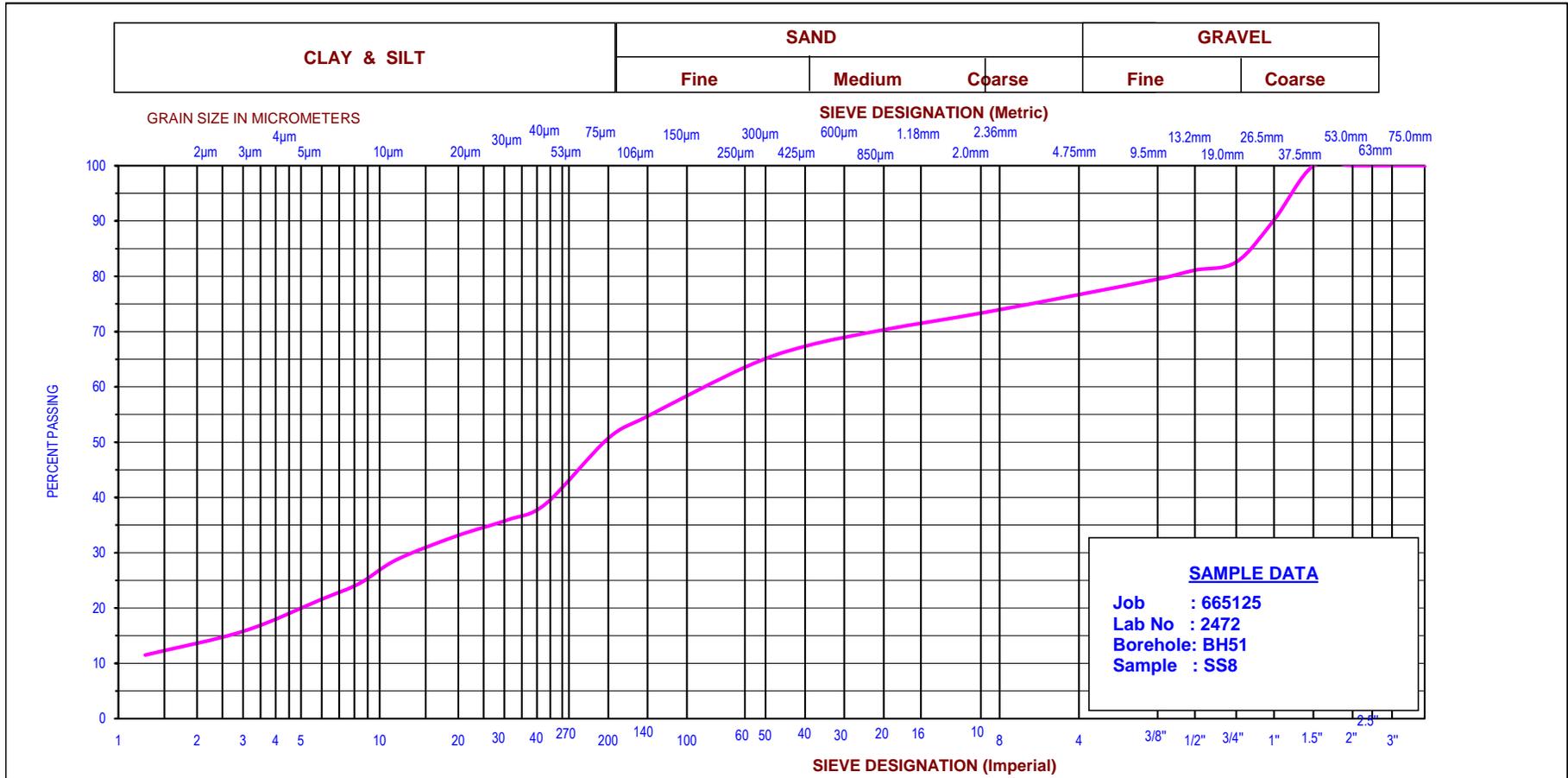
| % +3" | % Gravel | | % Sand | | | % Fines | |
|-------|----------|------|--------|--------|------|---------|------|
| | Coarse | Fine | Coarse | Medium | Fine | Silt | Clay |
| | 0 | 2 | 5 | 5 | 18 | 49 | 21 |

| | | | | |
|---|--|--|---|--|
| <p>SNC-Lavalin GEM Ontario Inc. 401 Hanlan Road Vaughan, Ontario, Canada, L4L 3T1 ☎ 905.851.0090 📠 905.851.0091</p> | GRAIN SIZE DISTRIBUTION | | Client: SNC-Lavalin | |
| | SANDY/CLAYEY SILT trace gravel | | Project : Geo. Inv. Johnston Transit Facility-10192 Hwy 50 Brampton | |
| | | | Location: 10192 Hwy 50, Brampton, ON | |
| | | | Date: June 2019 | |



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UNIFIED SOIL CLASSIFICATION SYSTEM



SAMPLE DATA
 Job : 665125
 Lab No : 2472
 Borehole: BH51
 Sample : SS8

| % +3" | % Gravel | | % Sand | | | % Fines | |
|-------|----------|------|--------|--------|------|---------|------|
| | Coarse | Fine | Coarse | Medium | Fine | Silt | Clay |
| | 17 | 6 | 3 | 6 | 17 | 37 | 14 |

| | | | | |
|---|---|-----------------|---|--|
| SNC-Lavalin GEM Ontario Inc. 401 Hanlan Road Vaughan, Ontario, Canada, L4L 3T1 ☎ 905.851.0090 📠 905.851.0091 | GRAIN SIZE DISTRIBUTION | | Client: SNC-Lavalin | |
| | GRAVELLY / SANDY SILT some clay | | Project : Geo. Inv. Johnston Transit Facility-10192 Hwy 50 Brampton | |
| | | | Location: 10192 Hwy 50, Brampton, ON | |
| | | Date: July 2019 | | |

Appendix B

Borehole Logs

RECORD OF BOREHOLE No. **BH03/MW03**

Project Number: **665125** Drilling Location: **As per borehole location plan** Logged by: **MF**
 Client: **City of Brampton** Drilling Method: **150 mm Hollow Stem Augering** Compiled by: **NT**
 Project Name: **Phase II Environmental Site Assessment** Drilling Machine: **Track Mounted Drill** Reviewed by: **MT**
 Location: **10192 Hwy 50, Brampton, ON** Date Started: **Jun 10, 2019** Date Completed: **Jun 10, 2019** Revision No.: **0**

| LITHOLOGY PROFILE | | SOIL SAMPLING | | | | FIELD TESTING | | LAB TESTING | | | | EASTING: 606450.93 NORTHING: 4852124.65 | | | |
|-------------------|--|---------------|---------------|--------------|---------------|---------------|---------------|---------------------|--------|-----------|--------------|--|----------------------------------|----------|--|
| Lithology Plot | DESCRIPTION | Sample Type | Sample Number | Recovery (%) | SPT 'N' Value | DEPTH (m) | ELEVATION (m) | Penetration Testing | | | | INSTRUMENTATION INSTALLATION | Unit Weight (KN/m ³) | COMMENTS | |
| | | | | | | | | ○ SPT | ● DCPT | MTO Vane* | Nilcon Vane* | | | | ★ Rinse pH Values |
| | Local Ground Surface Elevation: 208.89 m | | | | | | | | | | | | | | |
| | Loose crushed stone / asphalt pieces~460 mm. 208.4 | SS | 01 | 75 | | | | | | | | | | | |
| | FILL 0.5 Brown to light brown, stiff, silty CLAY, trace gravel, moist. | SS | 02 | 84 | 8 | 1 | 208 | ○ | | | | | | | Top of Riser Elevation = 209.81 m Height of Riser= 0.92 m PP = 2.0 kg/ sq-cm Sample submitted for laboratory analysis: BH03-01 PP = 3.0 kg/ sq-cm Sample submitted for laboratory analysis: BH03-02 PP = 4.0 kg/ sq-cm |
| | becomes oxidized, some sand. 206.6 | SS | 03 | 100 | 9 | 2 | 207 | ○ | | | | | | | |
| | NATIVE TILL 2.3 Brown, hard to very stiff, sandy silty CLAY, trace sand, trace gravel, oxidized, moist. | SS | 04 | 100 | 40 | 3 | 206 | ○ | | | | | | | PP = 3.0 kg/ sq-cm |
| | fine sand at bottom. 205.3 | SS | 05 | 75 | 26 | 4 | 205 | ○ | | | | | | | PP = 4.5 kg/ sq-cm |
| | Brown to brownish grey, compact, SAND, trace gravel, silty clay seams, moist. 205.6 | SS | 06 | 75 | 24 | 5 | 204 | ○ | | | | | | | Sample submitted for laboratory analysis: BH03-07 |
| | becomes very dense. | SS | 07 | 0 | 50/50 mm | 6 | 203 | ○ | | | | | | | |
| | becomes compact, wet. | SS | 08 | 75 | 28 | | | ○ | | | | | | | |
| | End of borehole. 202.2 | SS | 09 | 33 | 17 | | | ○ | | | | | | | Auger refusal. |
| | Notes: 1. Borehole was found to be caved-in at 5.94 mbgs with freestanding water at 4.57 mbgs upon completion. 2. Water table was measured upon completion of drilling inside the hollow stem auger on June 24 and October 21, 2019. 3. PP = pocket penetrometer. | | | | | | | | | | | | | | |



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Groundwater depth on completion of drilling: **4.57 m** Cave in depth recorded on completion of drilling: **5.94 m**
 Groundwater depth observed on **21/10/2019** at a depth of: **3.13 m**.

Borehole details as presented, do not constitute a thorough understanding of all potential conditions present and requires interpretative assistance from a qualified Geotechnical Engineer. Also, borehole information should be read in conjunction with the geotechnical report for which it was commissioned and the accompanying Notes to Record of Boreholes.

RECORD OF BOREHOLE No. **BH18**

Project Number: **665125** Drilling Location: **As per borehole location plan** Logged by: **MF**
 Client: **City of Brampton** Drilling Method: **150 mm Hollow Stem Augering** Compiled by: **NT**
 Project Name: **Phase II Environmental Site Assessment** Drilling Machine: **Track Mounted Drill** Reviewed by: **MT**
 Location: **10192 Hwy 50, Brampton, ON** Date Started: **Jun 10, 2019** Date Completed: **Jun 11, 2019** Revision No.: **0**

| LITHOLOGY PROFILE | | SOIL SAMPLING | | | | FIELD TESTING | | LAB TESTING | | | | INSTRUMENTATION INSTALLATION | EASTING: 606440.23 NORTHING: 4852017.03 | | |
|-------------------|--|---------------|---------------|--------------|---------------|---------------|---------------|--|--|---|--|---------------------------------|--|-------------------------------------|---|
| Lithology Plot | DESCRIPTION | Sample Type | Sample Number | Recovery (%) | SPT 'N' Value | DEPTH (m) | ELEVATION (m) | Penetration Testing ○ SPT ● DCPT MTO Vane* Nilcon Vane* △ Intact ◇ Intact ▲ Remould ◆ Remould * Undrained Shear Strength (kPa) 20 40 60 80 | | | | | Soil Vapour Reading parts per million (ppm) 100 200 300 400 ▲ Lower Explosive Limit (LEL) * Passing 75 um (%) ○ Moisture Content (%) Atterberg Limits W _L W _P | Unit Weight (KN/m ³) | COMMENTS |
| | Local Ground Surface Elevation: 208.95 m | | | | | | | | | | | | | | |
| | Loose crushed stone / asphalt pieces~460 mm. 208.5 | SS | 01 | 84 | | | | | | | | | | | PP = 2.5 kg/ sq-cm |
| | FILL 0.5 Brown, firm, silty CLAY, trace gravel, trace sand, some oxidation, moist. | SS | 02 | 62 | 7 | 1 | 208 | ○ | | | | | | | PP = 3.0 kg/ sq-cm Sample submitted for laboratory analysis: BH18-02 |
| | NATIVE TILL 207.4 Brown, very stiff, sandy silty CLAY, trace to some gravel, moist. 1.5 | SS | 03 | 54 | 25 | 2 | 207 | ○ | | | | | | | PP = 2.5 kg/ sq-cm |
| | becomes hard | SS | 04 | 67 | 90 | | | | | ○ | | | | | PP = 4.5 kg/ sq-cm |
| | trace broken cobbles | SS | 05 | 100 | 65 | 3 | 206 | | | ○ | | | | | |
| | wet sand pockets | SS | 06 | 92 | 40 | 4 | 205 | ○ | | | | | | | PP = 4.5 kg/ sq-cm |
| | | SS | 07 | 100 | 30 | 5 | 204 | ○ | | | | | | | PP = 4.0 kg/ sq-cm |
| | GR: 2%; SA: 13%; SI: 63%; & CL: 22% | SS | 08 | 100 | 31 | 6 | 203 | ○ | | | | | | | PP = 3.5 kg/ sq-cm |
| | | | | | | 7 | 202 | | | | | | | | |
| | Grey, very dense, silty SAND, trace clay, trace gravel moist to wet gravel pockets. 201.3 | SS | 09 | 100 | 59 | 8 | 201 | ○ | | | | | | | |
| | | | | | | 9 | 200 | ○ | | | | | | | |
| | some clay 199.2 | SS | 10 | 100 | 49 | | | | | ○ | | | | | |
| | End of borehole. 9.8 Notes: 1. Borehole was found to caved in at 9.14 mbgs with no freestanding water upon completion. 2. Water table was measured upon completion of drilling inside the hollow stem auger. 3. PP = pocket penetrometer. 4. GR., SA., SI. & CL. denote Gravel, Sand, Silt & Clay respectively. | | | | | | | | | | | | | | |



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∇ No freestanding groundwater measured in open borehole upon completion of drilling.

Borehole details as presented, do not constitute a thorough understanding of all potential conditions present and requires interpretative assistance from a qualified Geotechnical Engineer. Also, borehole information should be read in conjunction with the geotechnical report for which it was commissioned and the accompanying 'Notes to Record of Boreholes'.

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RECORD OF BOREHOLE No. BH22/MW22

Project Number: **665125** Drilling Location: **As per borehole location plan** Logged by: **MF**
 Client: **City of Brampton** Drilling Method: **150 mm Hollow Stem Augering** Compiled by: **NT**
 Project Name: **Phase II Environmental Site Assessment** Drilling Machine: **Track Mounted Drill** Reviewed by: **MT**
 Location: **10192 Hwy 50, Brampton, ON** Date Started: **Jun 12, 2019** Date Completed: **Jun 12, 2019** Revision No.: **0**

| LITHOLOGY PROFILE | | SOIL SAMPLING | | | | FIELD TESTING | | LAB TESTING | | | | INSTRUMENTATION INSTALLATION | EASTING: 606347.46 NORTHING: 4852093.13 | | |
|-------------------|--|---------------|---------------|--------------|---------------|---------------|---------------|--|--|--|--|---------------------------------|--|----------|---|
| Lithology Plot | DESCRIPTION | Sample Type | Sample Number | Recovery (%) | SPT 'N' Value | DEPTH (m) | ELEVATION (m) | Penetration Testing ○ SPT ● DCPT MTO Vane* Nilcon Vane* △ Intact ◇ Intact ▲ Remould ◆ Remould * Undrained Shear Strength (kPa) 20 40 60 80 | | ★ Rinse pH Values 2 4 6 8 10 12 △ Soil Vapour Reading parts per million (ppm) 100 200 300 400 ▲ Lower Explosive Limit (LEL) * Passing 75 um (%) ○ Moisture Content (%) Atterberg Limits W _L W _P | | | Unit Weight (KN/m ³) | COMMENTS | |
| | Local Ground Surface Elevation: 210.22 m | | | | | | | | | | | | | | |
| | Loose crushed stone / asphalt pieces ~760 mm. | SS | 01 | 67 | | | 210 | | | | | | | | Top of Riser Elevation = 211.08 m; Height of Riser= 0.86 m |
| | 209.5 | | | | | | | | | | | | | | |
| | NATIVE TILL Brown, stiff, sandy silty CLAY, trace to some gravel, oxidized, moist. | SS | 02 | 75 | 11 | 1 | 209 | ○ | | | | | | | PP = 3.5 kg/ sq-cm |
| | becomes hard | SS | 03 | 100 | 31 | 2 | 208 | ○ | | | | | | | Sample submitted for laboratory analysis: BH22-03 PP = 4.5 kg/ sq-cm |
| | trace broken cobbles | SS | 04 | 67 | 75 | 3 | 207 | ○ | | | | | | | PP = 4.5 kg/ sq-cm |
| | oxidized cores | SS | 06 | 100 | 44 | 4 | 206 | ○ | | | | | | | PP = 4.5 kg/ sq-cm |
| | becomes grey, gravelly sand pockets. | SS | 07 | 84 | 72 | 5 | 205 | ○ | | | | | | | PP = 4.5 kg/ sq-cm |
| | becomes very stiff. | SS | 08 | 100 | 29 | 6 | 204 | ○ | | | | | | | Sample submitted for laboratory analysis: BH22-08 |
| | 203.5 | | | | | | | | | | | | | | |
| | End of borehole. 6.7 | | | | | | | | | | | | | | |
| | Notes: 1. Borehole was found to be open with no freestanding water upon completion. 2. Water table was measured upon completion of drilling inside the hollow stem auger on June 24 and October 21, 2019. 3. PP = pocket penetrometer. | | | | | | | | | | | | | | |



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∇ No freestanding groundwater measured in open borehole upon completion of drilling.

∇ Groundwater depth observed on **21/10/2019** at a depth of: **0.76m.**

Borehole details as presented, do not constitute a thorough understanding of all potential conditions present and requires interpretative assistance from a qualified Geotechnical Engineer. Also, borehole information should be read in conjunction with the geotechnical report for which it was commissioned and the accompanying 'Notes to Record of Boreholes'.

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RECORD OF BOREHOLE No. BH30/MW30

Project Number: **665125** Drilling Location: **As per borehole location plan** Logged by: **MF**
 Client: **City of Brampton** Drilling Method: **150 mm Hollow Stem Augering** Compiled by: **NT**
 Project Name: **Phase II Environmental Site Assessment** Drilling Machine: **Track Mounted Drill** Reviewed by: **MT**
 Location: **10192 Hwy 50, Brampton, ON** Date Started: **Jun 11, 2019** Date Completed: **Jun 11, 2019** Revision No.: **0**

| LITHOLOGY PROFILE | | SOIL SAMPLING | | | | FIELD TESTING | | LAB TESTING | | INSTRUMENTATION INSTALLATION | EASTING: 606448.57 NORTHING: 4851932.58 | |
|-------------------|--|---------------|---------------|--------------|---------------|---------------|---------------|--|---|------------------------------|--|---|
| Lithology Plot | DESCRIPTION | Sample Type | Sample Number | Recovery (%) | SPT 'N' Value | DEPTH (m) | ELEVATION (m) | Penetration Testing ○ SPT ● DCPT MTO Vane* Nilcon Vane* △ Intact ◇ Intact ▲ Remould ◆ Remould * Undrained Shear Strength (kPa) 20 40 60 80 | ★ Rinse pH Values 2 4 6 8 10 12 △ Soil Vapour Reading parts per million (ppm) 100 200 300 400 ▲ Lower Explosive Limit (LEL) * Passing 75 um (%) ○ Moisture Content (%) Atterberg Limits W _L W _P | | Unit Weight (KN/m ³) | COMMENTS |
| | Local Ground Surface Elevation: 208.48 m | | | | | | | | | | | |
| | Topsoil ~200 mm. 208.3 | | | | | | | | | | | |
| | FILL 0.2 | SS | 01 | 84 | 5 | | 208 | ○ | | | | Top of Riser Elevation = 209.36 m; Height of Riser=0.88 m |
| | Brown, firm, silty CLAY, trace gravel, moist. 207.7 | | | | | | | | | | | Sample submitted for laboratory analysis: BH30-01 |
| | NATIVE TILL 0.8 | SS | 02 | 100 | 12 | 1 | 207 | ○ | ● | | | PP = 1.5 kg/ sq-cm |
| | Brown, stiff, sandy silty CLAY, trace to some gravel, some oxidation, moist. GR: 2%; SA: 28%; SI: 49%; & CL: 21% | | | | | | | | | | | Sample submitted for laboratory analysis: BH30-02 |
| | becomes hard | SS | 03 | 100 | 33 | 2 | 206 | ○ | | | | PP = 3.5 kg/ sq-cm |
| | | SS | 04 | 133 | 50 | 3 | 205 | ○ | | | | PP = 4.5 kg/ sq-cm |
| | | SS | 05 | 100 | 44 | 4 | 204 | ○ | | | | PP = 3.5 kg/ sq-cm |
| | | SS | 06 | 100 | 40 | 5 | 203 | ○ | | | | PP = 4.0 kg/ sq-cm |
| | becomes brownish grey, very stiff. | SS | 07 | 100 | 28 | 6 | 202.3 | ○ | | | | PP = 3.5 kg/ sq-cm |
| | Brown, very dense, gravelly SAND to SAND, wet. 203.1 | SS | 08 | 100 | 50/125 mm | | 203 | | | | | Sample submitted for laboratory analysis: BH30-08 |
| | End of borehole. 202.3 | SS | 09 | 94 | 50/75 mm | | 202.3 | ■ | | | | |
| | Notes: 1. Borehole was found to caved in at 6.10 mbgs with freestanding water at 5.18 mbgs upon completion. 2. Water table was measured upon completion of drilling inside the hollow stem auger on June 24 and October 21, 2019. 3. PP = pocket penetrometer. 4. GR., SA., SI. & CL. denote Gravel, Sand, Silt & Clay respectively. | | | | | | | | | | | |

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▽ Groundwater depth on completion of drilling: **5.18 m** ■ Cave in depth recorded on completion of drilling: **6.1 m.**
 ▼ Groundwater depth observed on **21/10/2019** at a depth of: **3.16 m.**

Borehole details as presented, do not constitute a thorough understanding of all potential conditions present and requires interpretative assistance from a qualified Geotechnical Engineer. Also, borehole information should be read in conjunction with the geotechnical report for which it was commissioned and the accompanying 'Notes to Record of Boreholes'.

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RECORD OF BOREHOLE No. BH33/MW33

Project Number: **665125** Drilling Location: **As per borehole location plan** Logged by: **AB**
 Client: **City of Brampton** Drilling Method: **200 mm Hollow Stem Augering** Compiled by: **NT**
 Project Name: **Phase II Environmental Site Assessment** Drilling Machine: **Track Mounted Drill** Reviewed by: **MT**
 Location: **10192 Hwy 50, Brampton, ON** Date Started: **Jun 12, 2019** Date Completed: **Jun 19, 2019** Revision No.: **0**

| LITHOLOGY PROFILE | | SOIL SAMPLING | | | | FIELD TESTING | | LAB TESTING | | | | EASTING: 606355.8 NORTHING: 4852008.7 | | | |
|-------------------|---|---------------|---------------|--------------|---------------|---------------|---------------|---------------------|--------|----------|----------|--|----------------------------------|----------|---|
| Lithology Plot | DESCRIPTION | Sample Type | Sample Number | Recovery (%) | SPT 'N' Value | DEPTH (m) | ELEVATION (m) | Penetration Testing | | | | INSTRUMENTATION INSTALLATION | Unit Weight (KN/m ³) | COMMENTS | |
| | | | | | | | | ○ SPT | ● DCPT | △ Intact | ◇ Intact | | | | ▲ Lower Explosive Limit (LEL) |
| | Local Ground Surface Elevation: 209.85 m | | | | | | | | | | | | | | |
| | Loose overburden asphalt~ 760 mm. | SS | 01 | 52 | | | | | | | | | | | Top of Riser Elevation = 210.77 m; Height of Riser =0.92 m |
| | 209.2 | | | | | | | | | | | | | | |
| | NATIVE TILL Light brown, very stiff, sandy silty CLAY, some silt, moist. | SS | 02 | 64 | 15 | 1 | 209 | ○ | | | | | | | Sample submitted for laboratory analysis: BH33-02 |
| | hard | SS | 03 | 100 | 17 | 2 | 208 | ○ | | | | | | | Sample submitted for laboratory analysis: BH33-03 |
| | very stiff | SS | 04 | 100 | 37 | 3 | 207 | ○ | | | | | | | |
| | becomes hard | SS | 05 | 100 | 30 | 4 | 206 | ○ | | | | | | | |
| | some sand pockets | SS | 06 | 85 | 20 | 5 | 205 | ○ | | | | | | | |
| | trace to some sand. | SS | 07 | 100 | 58 | 6 | 204 | ○ | | | | | | | Sample submitted for laboratory analysis: BH33-07 |
| | SS | 08 | 72 | 61 | | | 203 | ○ | | | | | | | |
| | SS | 09 | 31 | 36 | | | | ○ | | | | | | | |
| | SS | 10 | 100 | 33 | | | | ○ | | | | | | | |
| | SS | 11 | 100 | 32 | | | | ○ | | | | | | | |
| | SS | 12 | 100 | 58 | | | | ○ | | | | | | | |
| | End of borehole. Notes: 1. Borehole was found to be open with no freestanding water upon completion. 2. Water table was measured upon completion of drilling inside the hollow stem auger on June 24 and October 21, 2019. | | | | | | | | | | | | | | |


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∇ No freestanding groundwater measured in open borehole upon completion of drilling.
 ∇ Groundwater depth observed on **21/10/2019** at a depth of: **0.89 m.**

Borehole details as presented, do not constitute a thorough understanding of all potential conditions present and requires interpretative assistance from a qualified Geotechnical Engineer. Also, borehole information should be read in conjunction with the geotechnical report for which it was commissioned and the accompanying 'Notes to Record of Boreholes'.

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RECORD OF BOREHOLE No. **BH35/MW35**

Project Number: **665125** Drilling Location: **As per borehole location plan** Logged by: **MF**
 Client: **City of Brampton** Drilling Method: **150 mm Hollow Stem Augering** Compiled by: **NT**
 Project Name: **Phase II Environmental Site Assessment** Drilling Machine: **Track Mounted Drill** Reviewed by: **MT**
 Location: **10192 Hwy 50, Brampton, ON** Date Started: **Jun 12, 2019** Date Completed: **Jun 12, 2019** Revision No.: **0**

| LITHOLOGY PROFILE | | SOIL SAMPLING | | | | FIELD TESTING | | LAB TESTING | | INSTRUMENTATION INSTALLATION | EASTING: 606263.02 NORTHING: 4852084.8 | |
|--|---|---------------|---------------|--------------|---------------|---------------|---------------|--|--|------------------------------|---|--|
| Lithology Plot | DESCRIPTION | Sample Type | Sample Number | Recovery (%) | SPT 'N' Value | DEPTH (m) | ELEVATION (m) | Penetration Testing ○ SPT ● DCPT MTO Vane* Nilcon Vane* △ Intact ◇ Intact ▲ Remould ◆ Remould * Undrained Shear Strength (kPa) 20 40 60 80 | ★ Rinse pH Values 2 4 6 8 10 12 △ Soil Vapour Reading parts per million (ppm) 100 200 300 400 ▲ Lower Explosive Limit (LEL) * Passing 75 um (%) ○ Moisture Content (%) Atterberg Limits W _L W _P | | Unit Weight (KN/m ³) | COMMENTS |
| Local Ground Surface Elevation: 209.19 m | | | | | | | | | | | | |
| | Topsoil ~150 mm. | | | | | | 209.1 | | | | | |
| | FILL Brown, soft, silty CLAY, trace gravel, moist. | SS | 01 | 67 | 3 | | 209.0 | | | | | Top of Riser Elevation = 210.09m; Height of Riser= 0.90 m PP = 0.5 kg/ sq-cm |
| | NATIVE TILL Brown, stiff to very stiff, sandy silty CLAY, trace gravel, some oxidation, moist. | SS | 02 | 100 | 10 | 1 | 208.8 | | | | | PP = 3.0 kg/ sq-cm |
| | | SS | 03 | 100 | 27 | 2 | 208.5 | | | | | Sample submitted for laboratory analysis: BH35-03 PP = 4.0 kg/ sq-cm |
| | becomes hard | SS | 04 | 100 | 32 | 3 | 208.2 | | | | | PP = 4.5 kg/ sq-cm |
| | | SS | 05 | 100 | 38 | 4 | 207.9 | | | | | PP = 3.0 kg/ sq-cm |
| | becomes brownish grey, stiff. | SS | 06 | 0 | 31 | 5 | 207.6 | | | | | Sample submitted for laboratory analysis: BH35-07 |
| | becomes very stiff. | SS | 07 | 100 | 14 | 6 | 207.3 | | | | | |
| | | SS | 08 | 0 | 20 | 7 | 207.0 | | | | | |
| | | SS | 09 | 67 | 20 | 8 | 206.7 | | | | | PP = 3.5 kg/ sq-cm |
| | | SS | 10 | 67 | 50/150 mm | 9 | 206.4 | | | | | |
| | Grey, very dense, silty SAND, trace clay, broken cobble pieces, moist. | SS | 11 | 100 | 58 | 10 | 206.1 | | | | | PP = 4.5 kg/ sq-cm |
| | End of borehole. | | | | | | 205.8 | | | | | |
| | Notes: 1. Borehole was found to be open with no freestanding water upon completion. 2. Water table was measured upon completion of drilling inside the hollow stem auger on June 24 and October 21, 2019. | | | | | | 205.5 | | | | | |



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∇ No freestanding groundwater measured in open borehole upon completion of drilling.

∇ Groundwater depth observed on **21/10/2019** at a depth of: **2.39 m.**

Borehole details as presented, do not constitute a thorough understanding of all potential conditions present and requires interpretative assistance from a qualified Geotechnical Engineer. Also, borehole information should be read in conjunction with the geotechnical report for which it was commissioned and the accompanying 'Notes to Record of Boreholes'.

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RECORD OF BOREHOLE No. BH51/MW51

Project Number: **665125** Drilling Location: **As per borehole location plan** Logged by: **MF**
 Client: **City of Brampton** Drilling Method: **150 mm Hollow Stem Augering** Compiled by: **NT**
 Project Name: **Phase II Environmental Site Assessment** Drilling Machine: **Track Mounted Drill** Reviewed by: **MT**
 Location: **10192 Hwy 50, Brampton, ON** Date Started: **Jun 11, 2019** Date Completed: **Jun 11, 2019** Revision No.: **0**

| LITHOLOGY PROFILE | | SOIL SAMPLING | | | | FIELD TESTING | | LAB TESTING | | INSTRUMENTATION INSTALLATION | EASTING: 606376.62 NORTHING: 4851797.58 | |
|-------------------|---|---------------|---------------|--------------|---------------|---------------|---------------|--|--|---------------------------------|--|--|
| Lithology Plot | DESCRIPTION | Sample Type | Sample Number | Recovery (%) | SPT 'N' Value | DEPTH (m) | ELEVATION (m) | Penetration Testing ○ SPT ● DCPT MTO Vane* Nilcon Vane* △ Intact ◇ Intact ▲ Remould ◆ Remould * Undrained Shear Strength (kPa) 20 40 60 80 | ★ Rinse pH Values 2 4 6 8 10 12 △ Soil Vapour Reading parts per million (ppm) 100 200 300 400 ▲ Lower Explosive Limit (LEL) * Passing 75 um (%) ○ Moisture Content (%) Atterberg Limits W _L W _P | | Unit Weight (KN/m ³) | COMMENTS |
| | Local Ground Surface Elevation: 208.94 m | | | | | | | | | | | |
| | Top Soil ~150 mm. 208.8 | | | | | | | | | | | |
| | FILL 0.2 | SS | 01 | 84 | 7 | | | | | | | Top of Riser Elevation = 209.94 m; Height of Riser= 1.00 m PP = 2.0 Kg / sq.cm |
| | Brown, firm, silty CLAY, trace gravel, trace to some sand, rootlets, moist. | | | | | 1 | 208 | | | | | Sample submitted for laboratory analysis: BH51-02 PP = 2.5 Kg / sq.cm |
| | 207.5 | | | | | | | | | | | |
| | NATIVE TILL 1.5 | SS | 03 | 100 | 17 | | | | | | | PP = 4.0 Kg / sq.cm |
| | Brown, very stiff, sandy silty CLAY, trace to some gravel, trace sand, oxidised, moist. | | | | | 2 | 207 | | | | | |
| | 205.9 | | | | | | | | | | | |
| | Brown, dense to very dense, sandy SILT, trace gravel, trace to some sand, oxidised, moist. 3.1 | SS | 05 | 100 | 30 | | | | | | | PP = 4.5 Kg / sq. cm |
| | some gravel | | | | | | | | | | | |
| | GR: 23%; SA: 26%; SI: 37%; & CL: 14% | SS | 06 | 100 | 50 / 125 mm | 4 | 205 | | | | | PP = 4.5 Kg / sq. cm |
| | | | | | | | | | | | | |
| | | SS | 07 | 33 | 48 | 5 | 204 | | | | | |
| | | | | | | | | | | | | |
| | | SS | 08 | 25 | 26 | | | | | | | Sample submitted for laboratory analysis: BH51-08 PP = 4.5 Kg / sq. cm |
| | | | | | | | | | | | | |
| | | SS | 09 | 100 | 38 | 6 | 203 | | | | | |
| | | | | | | | | | | | | |
| | End of borehole. 202.3 | | | | | | | | | | | |
| | Notes: 6.7 | | | | | | | | | | | |
| | 1. Borehole was found to be caved in at 3.05 mbgs with freestanding water at 4.72 mbgs upon completion. | | | | | | | | | | | |
| | 2. Water table was measured upon completion of drilling inside the hollow stem auger on June 24 and October 21, 2019. | | | | | | | | | | | |
| | 2. PP= Pocket Penetrometer. | | | | | | | | | | | |
| | 4. GR., SA., SI. & CL. denote Gravel, Sand, Silt & Clay respectively. | | | | | | | | | | | |


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▽ Groundwater depth on completion of drilling: **4.72 m**
 ▼ Groundwater depth observed on **21/10/2019** at a depth of: **2.17m.**

Borehole details as presented, do not constitute a thorough understanding of all potential conditions present and requires interpretative assistance from a qualified Geotechnical Engineer. Also, borehole information should be read in conjunction with the geotechnical report for which it was commissioned and the accompanying 'Notes to Record of Boreholes'.

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RECORD OF BOREHOLE No. **BH52**

Project Number: **665125** Drilling Location: **As per borehole location plan** Logged by: **MF**
 Client: **City of Brampton** Drilling Method: **150 mm Hollow Stem Augering** Compiled by: **NT**
 Project Name: **Phase II Environmental Site Assessment** Drilling Machine: **Track Mounted Drill** Reviewed by: **MT**
 Location: **10192 Hwy 50, Brampton, ON** Date Started: **Jun 12, 2019** Date Completed: **Jun 12, 2019** Revision No.: **0**

| LITHOLOGY PROFILE | | SOIL SAMPLING | | | | FIELD TESTING | | LAB TESTING | | | | INSTRUMENTATION INSTALLATION | EASTING: 606283.85 NORTHING: 4851873.71 | | |
|-------------------|---|---------------|---------------|--------------|---------------|---------------|---------------|--|--|--|--|---------------------------------|--|-------------------------------------|---|
| Lithology Plot | DESCRIPTION | Sample Type | Sample Number | Recovery (%) | SPT 'N' Value | DEPTH (m) | ELEVATION (m) | Penetration Testing ○ SPT ● DCPT MTO Vane* Nilcon Vane* △ Intact ◇ Intact ▲ Remould ◆ Remould * Undrained Shear Strength (kPa) 20 40 60 80 | | ★ Rinse pH Values 2 4 6 8 10 12 △ Soil Vapour Reading parts per million (ppm) 100 200 300 400 ▲ Lower Explosive Limit (LEL) * Passing 75 um (%) ○ Moisture Content (%) Atterberg Limits W _L W _P | | | | Unit Weight (KN/m ³) | COMMENTS |
| | Local Ground Surface Elevation: 208.13 m | | | | | | | | | | | | | | |
| | Topsoil ~ 150 mm. 208.0 | | | | | | 208 | | | | | | | | |
| | FILL 0.2 Brown, firm, silty CLAY, trace sand, trace gravel, organics, rootlets, oxidized, moist. | SS | 01 | 59 | 5 | | | ○ | | | | | | | PP = 2.0 Kg / sq.cm |
| | NATIVE TILL 0.8 Brown, very stiff, sandy silty CLAY, trace gravel, oxidized, moist. | SS | 02 | 67 | 17 | 1 | 207 | ○ | | | | | | | PP = 4.5 Kg / sq.cm |
| | | SS | 03 | 100 | 22 | 2 | 206 | ○ | | | | | | | Sample submitted for laboratory analysis: BH52-03 PP = 4.0 Kg / sq.cm |
| | broken cobble pieces. | SS | 04 | 100 | 23 | | | ○ | | | | | | | PP = 4.5 Kg / sq.cm |
| | | SS | 05 | 100 | 28 | 3 | 205 | ○ | | | | | | | |
| | End of borehole. 204.5 3.7 | | | | | | | | | | | | | | |
| | Notes: 1. Borehole was found to be caved in at 3.05 mbgs with freestanding water at 9.14 mbgs upon completion. 2. Water table was measured inside the hollow stem auger upon completion. 2. PP= Pocket Penetrometer. | | | | | | | | | | | | | | |

RECORD OF BOREHOLE No. BH70/MW70

Project Number: **665125** Drilling Location: **As per borehole location plan** Logged by: **MF**
 Client: **City of Brampton** Drilling Method: **150 mm Hollow Stem Augering** Compiled by: **NT**
 Project Name: **Phase II Environmental Site Assessment** Drilling Machine: **Track Mounted Drill** Reviewed by: **MT**
 Location: **10192 Hwy 50, Brampton, ON** Date Started: **Jun 11, 2019** Date Completed: **Jun 11, 2019** Revision No.: **0**

| LITHOLOGY PROFILE | | SOIL SAMPLING | | | | FIELD TESTING | | LAB TESTING | | INSTRUMENTATION INSTALLATION | EASTING: 606239.26 NORTHING: 4851677.44 | |
|-------------------|---|---------------|---------------|--------------|---------------|---------------|---------------|--|--|------------------------------|--|--|
| Lithology Plot | DESCRIPTION | Sample Type | Sample Number | Recovery (%) | SPT 'N' Value | DEPTH (m) | ELEVATION (m) | Penetration Testing ○ SPT ● DCPT MTO Vane* Nilcon Vane* △ Intact ◇ Intact ▲ Remould ◆ Remould * Undrained Shear Strength (kPa) 20 40 60 80 | ★ Rinse pH Values 2 4 6 8 10 12 △ Soil Vapour Reading parts per million (ppm) 100 200 300 400 ▲ Lower Explosive Limit (LEL) * Passing 75 um (%) ○ Moisture Content (%) Atterberg Limits W _L W _P | | Unit Weight (KN/m ³) | COMMENTS |
| | Local Ground Surface Elevation: 207.53 m | | | | | | | | | | | |
| | Top Soil ~150 mm. 207.4 | | | | | | | | | | | |
| | FILL 0.2 | SS | 01 | 100 | 5 | | 207 | | | | | Top of Riser Elevation = 208.47 m Height of Riser= 0.94 m Sample submitted for laboratory analysis: BH70-01 PP = 2.5 Kg / sq.cm |
| | Brown, firm, silty CLAY, trace gravel, trace sand, rootlets, moist. 206.8 | | | | | | | | | | | |
| | NATIVE TILL 0.8 | SS | 02 | 16 | 12 | 1 | 207 | | | | | |
| | Brown, stiff to very stiff, sandy silty CLAY, some gravel, trace sand, oxidised, moist. | | | | | | | | | | | |
| | | SS | 03 | 100 | 19 | 2 | 206 | | | | | PP = 4.0 Kg / sq.cm |
| | | SS | 04 | 100 | 25 | 3 | 205 | | | | | PP = 4.5 Kg / sq.cm |
| | | SS | 05 | 100 | 14 | 4 | 204 | | | | | PP = 3.0 Kg / sq.cm |
| | Grey, compact, SILT, trace to some clay. 204.5 | | | | | | | | | | | |
| | some gravel, trace sand, moist. | SS | 06 | 100 | 14 | 5 | 203 | | | | | PP = 3.0 Kg / sq.cm |
| | | SS | 07 | 8 | 20 | 6 | 202 | | | | | |
| | Grey, compact, SILT to silty SAND, trace 203.0 | | | | | | | | | | | |
| | gravel, trace clay, moist | SS | 08 | 8 | 29 | 7 | 201 | | | | | |
| | | SS | 09 | 80 | 100 | 8 | 200 | | | | | |
| | very dense | | | | | | | | | | | |
| | | SS | 10 | 0 | 86 / 280 | | | | | | | |
| | End of borehole. 199.5 | | | | | | | | | | | |
| | Notes: 8.1 | | | | | | | | | | | |
| | 1. Borehole was found to be open with no freestanding water at 4.42 mbgs upon completion. | | | | | | | | | | | |
| | 2. Water table was measured upon completion of drilling inside the hollow stem auger on June 24 and October 21, 2019. | | | | | | | | | | | |
| | 2. PP= Pocket Penetrometer. | | | | | | | | | | | |



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∇ No freestanding groundwater measured in open borehole upon completion of drilling. Groundwater depth observed on 21/10/2019 at a depth of: 2.33 m.

Borehole details as presented, do not constitute a thorough understanding of all potential conditions present and requires interpretative assistance from a qualified Geotechnical Engineer. Also, borehole information should be read in conjunction with the geotechnical report for which it was commissioned and the accompanying 'Notes to Record of Boreholes'.

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RECORD OF BOREHOLE No. **BH72**

Project Number: **665125** Drilling Location: **As per borehole location plan** Logged by: **AB**
 Client: **City of Brampton** Drilling Method: **200 mm Hollow Stem Augering** Compiled by: **NT**
 Project Name: **Phase II Environmental Site Assessment** Drilling Machine: **Track Mounted Drill** Reviewed by: **MT**
 Location: **10192 Hwy 50, Brampton, ON** Date Started: **Jun 20, 2019** Date Completed: **Jun 20, 2019** Revision No.: **0**

| LITHOLOGY PROFILE | | SOIL SAMPLING | | | | FIELD TESTING | | LAB TESTING | | | | INSTRUMENTATION INSTALLATION | EASTING: 606359.9 NORTHING: 4851769.6 | |
|-------------------|---|---------------|---------------|--------------|---------------|---------------|---------------|--|---|--|--|---------------------------------|--|---|
| Lithology Plot | DESCRIPTION | Sample Type | Sample Number | Recovery (%) | SPT 'N' Value | DEPTH (m) | ELEVATION (m) | Penetration Testing ○ SPT ● DCPT MTO Vane* Nilcon Vane* △ Intact ◇ Intact ▲ Remould ◆ Remould * Undrained Shear Strength (kPa) 20 40 60 80 | | ★ Rinse pH Values 2 4 6 8 10 12 △ Soil Vapour Reading parts per million (ppm) 100 200 300 400 ▲ Lower Explosive Limit (LEL) * Passing 75 um (%) ○ Moisture Content (%) Atterberg Limits W _L W _P | | | Unit Weight (KN/m ³) | COMMENTS |
| | Local Ground Surface Elevation: 208.98 m | | | | | | | | | | | | | |
| | Topsoil~ 100 mm. 208.9 0.1 | | | | | | | | | | | | | |
| | FILL Brown, compact, gravelly SAND, moist 208.4 | SS | 01 | 66 | 28 | | | | ○ | | | | | Sample submitted for laboratory analysis: BH72-01 |
| | NATIVE TILL Light brown, stiff, sandy silty CLAY, thin black seam, moist. 0.6 | SS | 02 | 82 | 9 | 1 | 208 | | ○ | | | | | Sample submitted for laboratory analysis: BH72-02 |
| | becomes hard | SS | 03 | 100 | 20 | | | | ○ | | | | | |
| | | SS | 04 | 100 | 33 | 2 | 207 | | ○ | | | | | Sample submitted for laboratory analysis: BH72-03 |
| | | SS | 05 | 66 | 49 | | | | ○ | | | | | |
| | | SS | 06 | 100 | 48 | | | | ○ | | | | | |
| | | SS | 07 | 0 | 50/125 mm | | | | | | | | | |
| | Grey, dense to very dense, sandy SILT, 4.3 trace clay, moist. 204.7 | SS | 08 | 100 | 49 | | | | ○ | | | | | |
| | End of borehole. 204.0 | SS | 09 | 100 | 50/125 mm | 5 | 204 | | | | | | | |
| | Notes: 1. Borehole was found to be open with no freestanding water upon completion. 2. Water table was measured upon completion of drilling inside the hollow stem auger. | | | | | | | | | | | | | |

RECORD OF BOREHOLE No. **BH73**

Project Number: **665125** Drilling Location: **As per borehole location plan** Logged by: **AB**
 Client: **City of Brampton** Drilling Method: **200 mm Hollow Stem Augering** Compiled by: **NT**
 Project Name: **Phase II Environmental Site Assessment** Drilling Machine: **Track Mounted Drill** Reviewed by: **MT**
 Location: **10192 Hwy 50, Brampton, ON** Date Started: **Jun 20, 2019** Date Completed: **Jun 20, 2019** Revision No.: **0**

| LITHOLOGY PROFILE | | SOIL SAMPLING | | | | FIELD TESTING | | LAB TESTING | | | | INSTRUMENTATION INSTALLATION | EASTING: 606362 NORTHING: 4851771.2 | | |
|-------------------|---|---------------|---------------|--------------|---------------|---------------|---------------|--|---|--|--|---------------------------------|--|-------------------------------------|---|
| Lithology Plot | DESCRIPTION | Sample Type | Sample Number | Recovery (%) | SPT 'N' Value | DEPTH (m) | ELEVATION (m) | Penetration Testing ○ SPT ● DCPT MTO Vane* Nilcon Vane* △ Intact ◇ Intact ▲ Remould ◆ Remould * Undrained Shear Strength (kPa) 20 40 60 80 | | ★ Rinse pH Values 2 4 6 8 10 12 △ Soil Vapour Reading parts per million (ppm) 100 200 300 400 ▲ Lower Explosive Limit (LEL) * Passing 75 um (%) ○ Moisture Content (%) Atterberg Limits W _p W _L | | | | Unit Weight (KN/m ³) | COMMENTS |
| | Local Ground Surface Elevation: 208.83 m | | | | | | | | | | | | | | |
| | Topsoil~ 100 mm. 208.7 0.1 | | | | | | | | | | | | | | |
| | FILL Brown, compact, gravelly SAND, moist 208.2 | SS | 01 | 100 | 30 | | | | ○ | | | | | | |
| | NATIVE TILL Light brown, stiff, silty CLAY, some sand, trace gravel, moist. 207.6 | SS | 02 | 82 | 11 | 1 | 208 | | ○ | | | | | | Sample submitted for laboratory analysis: BH73-02 |
| | Light brown, very stiff to hard, silty sandy CLAY, trace gravel, moist. 207.2 | SS | 03 | 100 | 25 | | 207 | | ○ | | | | | | |
| | becomes hard | SS | 04 | 100 | 35 | 2 | 206 | | ○ | | | | | | |
| | | SS | 05 | 66 | 40 | | 205 | | ○ | | | | | | |
| | | SS | 06 | 100 | 48 | | 204 | | ○ | | | | | | |
| | | SS | 07 | 100 | 50 | | 203 | | ○ | | | | | | Sample submitted for laboratory analysis: BH73-07 |
| | | SS | 08 | 70 | 50/ 125 mm | | 204 | | ○ | | | | | | |
| | | SS | 09 | 100 | 52 | | 203 | | ○ | | | | | | |
| | End of borehole. 202.7 6.1 | SS | 10 | 100 | 63 | | 203 | | ○ | | | | | | |
| | Notes: 1. Borehole was found to be open with no freestanding water upon completion. 2. Water table was measured upon completion of drilling inside the hollow stem auger. | | | | | | | | | | | | | | |

∇ No freestanding groundwater measured in open borehole upon completion of drilling.



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Borehole details as presented, do not constitute a thorough understanding of all potential conditions present and requires interpretative assistance from a qualified Geotechnical Engineer. Also, borehole information should be read in conjunction with the geotechnical report for which it was commissioned and the accompanying 'Notes to Record of Boreholes'.

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RECORD OF BOREHOLE No. BH74/MW74

Project Number: **665125** Drilling Location: **As per borehole location plan** Logged by: **JP**
 Client: **City of Brampton** Drilling Method: **200 mm Hollow Stem Augering** Compiled by: **NT**
 Project Name: **Geotechnical Investigation-Johnston Transit Facility** Drilling Machine: **Track Mounted Drill** Reviewed by: **MT**
 Location: **Brampton** Date Started: **Oct 16, 2019** Date Completed: **Oct 16, 2019** Revision No.: **0**

| LITHOLOGY PROFILE | | SOIL SAMPLING | | | | FIELD TESTING | | LAB TESTING | | INSTRUMENTATION INSTALLATION | EASTING: 606484.167 NORTHING: 4851890.911 | |
|-------------------|---|---------------|---------------|--------------|---------------|---------------|---------------|--|--|---------------------------------|--|---|
| Lithology Plot | DESCRIPTION | Sample Type | Sample Number | Recovery (%) | SPT 'N' Value | DEPTH (m) | ELEVATION (m) | Penetration Testing ○ SPT ● DCPT MTO Vane* Nilcon Vane* △ Intact ◇ Intact ▲ Remould ◆ Remould * Undrained Shear Strength (kPa) 20 40 60 80 | ★ Rinse pH Values 2 4 6 8 10 12 △ Soil Vapour Reading parts per million (ppm) 100 200 300 400 ▲ Lower Explosive Limit (LEL) * Passing 75 um (%) ○ Moisture Content (%) Atterberg Limits W _L W _P | | Unit Weight (KN/m ³) | COMMENTS |
| | Local Ground Surface Elevation: 207.93 m | | | | | | | | | | | |
| | Topsoil ~ 200 mm | | | | | | | | | | | |
| | FILL Light brown, loose, silty SAND, some clay, moist. | SS | 01 | 100 | 13 | | | ○ | ○18 | | | Top of Riser = 208.82 m Height of Riser = 0.89 m Sample submitted for laboratory analysis : BH74-01 |
| | NATIVE TILL Light brown, hard, sandy silty CLAY, trace gravel, moist. | SS | 02 | 100 | 31 | 1 | 207 | ○ | ○11 | | | Sample submitted for laboratory analysis : BH74-02 |
| | | SS | 03 | 100 | 38 | 2 | 206 | ○ | | | | |
| | | SS | 04 | 100 | 55 | 3 | 205 | ○ | | | | |
| | | SS | 05 | 100 | 70 | 4 | 204 | ○ | | | | Some grey clay mottling. |
| | Brown to light brownish grey, very dense, silty SAND, trace clay, moist to wet. | SS | 06 | 100 | 70 | 4 | 204 | ○ | ○11 | | | Sample submitted for laboratory analysis : BH74-06 |
| | Light greyish brown, very dense, SAND, some silt and gravel, wet. | SS | 07 | 8 | 60 | 5 | 203 | ○ | | | | |
| | becomes compact. | SS | 08 | 51 | 16 | | | ○ | | | | Borehole cave in at 5.64 mbgl due to wet soil. |
| | End of Borehole. Notes: 1. Borehole was found to cave at 5.64 mbgs and no freestanding water 2. Water table was measured upon completion of drilling inside the hollow stem auger and on October 21, 2019. | | | | | | 202 | | | | | |



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∇ No freestanding groundwater measured in open borehole upon completion of drilling.

∇ Groundwater depth observed on **21/10/2019** at a depth of: **2.59 m.**

Borehole details as presented, do not constitute a thorough understanding of all potential conditions present and requires interpretative assistance from a qualified Geotechnical Engineer. Also, borehole information should be read in conjunction with the geotechnical report for which it was commissioned and the accompanying 'Notes to Record of Boreholes'.

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RECORD OF BOREHOLE No. BH75/MW75

Project Number: **665125** Drilling Location: **As per borehole location plan** Logged by: **JP**
 Client: **City of Brampton** Drilling Method: **200 mm Hollow Stem Augering** Compiled by: **NT**
 Project Name: **Geotechnical Investigation-Johnston Transit Facility** Drilling Machine: **Track Mounted Drill** Reviewed by: **MT**
 Location: **Brampton** Date Started: **Oct 16, 2019** Date Completed: **Oct 16, 2019** Revision No.: **0**

| LITHOLOGY PROFILE | | SOIL SAMPLING | | | | FIELD TESTING | | LAB TESTING | | INSTRUMENTATION INSTALLATION | EASTING: 606531.454 NORTHING: 4851945.297 | |
|-------------------|---|---------------|---------------|--------------|---------------|---------------|---------------|--|--|---------------------------------|--|--|
| Lithology Plot | DESCRIPTION | Sample Type | Sample Number | Recovery (%) | SPT 'N' Value | DEPTH (m) | ELEVATION (m) | Penetration Testing ○ SPT ● DCPT MTO Vane* Nilcon Vane* △ Intact ◇ Intact ▲ Remould ◆ Remould * Undrained Shear Strength (kPa) 20 40 60 80 | ★ Rinse pH Values 2 4 6 8 10 12 △ Soil Vapour Reading parts per million (ppm) 100 200 300 400 ▲ Lower Explosive Limit (LEL) * Passing 75 µm (%) ○ Moisture Content (%) Atterberg Limits W _L 20 40 60 80 W _p | | Unit Weight (KN/m ³) | COMMENTS |
| | Local Ground Surface Elevation: 208.09 m | | | | | | | | | | | |
| | FILL Light brown, very stiff, silty CLAY, trace gravel, moist. 207.3 | SS | 01 | 100 | 16 | | | ○ | ○ 19 | | | Top of Riser = 208.95 m Height of Riser = 0.86 m. Sample submitted for laboratory analysis : BH75-01 |
| | NATIVE STRATA Light brown, very stiff, silty CLAY, trace gravel, trace sand, moist. 0.8 | SS | 02 | 100 | 18 | 1 | 207 | ○ | ○ 18 | | | Sample submitted for laboratory analysis : BH75-02 |
| | | SS | 03 | 100 | 33 | 2 | 206 | ○ | | | | |
| | NATIVE TILL Light brown to brownish grey, hard, sandy silty CLAY, moist. 205.8 | SS | 04 | 100 | 89 / 255 mm | 3 | 205 | | | | | Some grey clay mottling. |
| | | SS | 05 | 74 | 72 | | | ○ | | | | |
| | Light brownish grey, silty CLAY, some sand, moist. 204.3 | SS | 06 | 100 | 50 / 125 mm | 4 | 204 | | ○ 11 | | | Sample submitted for laboratory analysis : BH76-06 |
| | End of Borehole. Notes: 1. Borehole was found to be open and no freestanding water. 2. Water table was measured upon completion of drilling inside the hollow stem auger and on October 21, 2019. 203.8 | | | | | | | | | | | Auger to 4.27 and refusal at 4.27 mbgs. |
| | 4.3 | | | | | | | | | | | |

Appendix C

MECP Well Records (Pending)

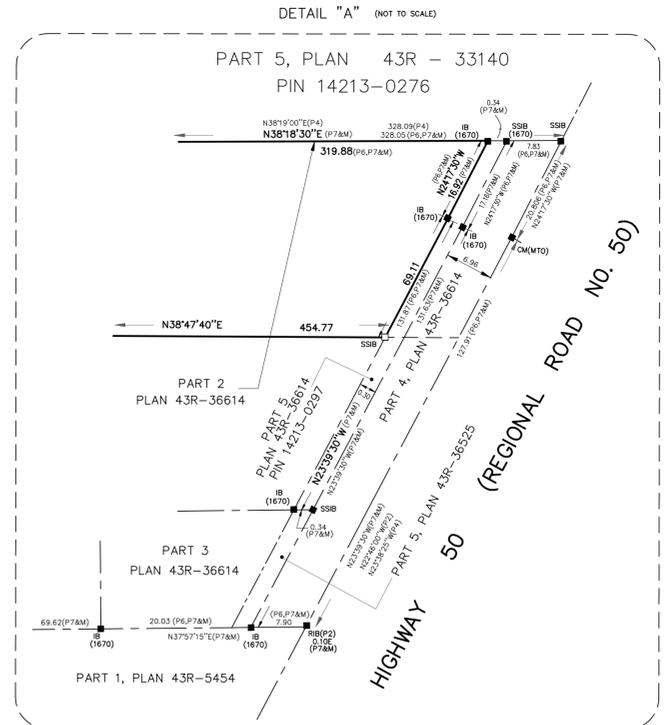
Appendix D

Legal Survey

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



REGISTERED PLAN M-343
 LOT 7 PIN 14213-0066
 LOT 8 PIN 14213-0065
 LOT 9 PIN 14213-0064



Plan 43R-
 RECEIVED AND DEPOSITED :
 DATE : _____, 2018
 DATE : _____, 2018
 MICHELE PEARSON
 ONTARIO LAND SURVEYOR
 REPRESENTATIVE FOR THE LAND
 TITLES DIVISION OF PEEL
 REGION (No. 43)

Schedule

| PART | PART OF LOT | CONCESSION | PART OF PIN | AREA(Sq.m.) |
|------|-------------|-------------------|-------------|-------------|
| 1 | LOT 12 | 11 | 14213-0300 | 35215.9 |
| 2 | | NORTHERN DIVISION | | 45659.9 |

PLAN OF SURVEY OF
 PART OF LOT 12
 CONCESSION 11, NORTHERN DIVISION
CITY OF BRAMPTON
 REGIONAL MUNICIPALITY OF PEEL
 GEOGRAPHIC TOWNSHIP OF TORONTO GORE
 COUNTY OF PEEL
 SCALE 1:1000

PEARSON & PEARSON SURVEYING LTD. 2018
 Ontario Land Surveyors

Bearing Note
 BEARINGS SHOWN HEREON ARE GRID, DERIVED FROM OBSERVED
 REFERENCE POINTS (ORP'S) A & B BY REAL TIME NETWORK
 OBSERVATIONS, UTM Zone 17, NAD 83 (CSRS V6) (Epoch 2010.00)
 DISTANCES SHOWN ON THE PLAN ARE ADJUSTED GROUND DISTANCES
 AND CAN BE USED TO COMPUTE GRID DISTANCES BY MULTIPLYING
 BY A COMBINED SCALE FACTOR OF 0.9997135

Integration Data

OBSERVED REFERENCE POINTS (ORP'S) DERIVED FROM GPS
 OBSERVATIONS USING THE SMARTNET NETWORK SERVICE AND ARE
 REFERRED TO UTM Zone 17, NAD 83 (CSRS V6) (Epoch 2010.00)
 COORDINATE VALUES ARE TO URBAN ACCURACY IN ACCORDANCE WITH
 SECTION 14(2) OF OREG. 216/10, AND CANNOT IN THEMSELVES, BE
 USED TO RE-ESTABLISH CORNERS OR BOUNDARIES SHOWN ON THIS PLAN.

| POINT ID | NORTHING | EASTING |
|----------|------------|-----------|
| DRP A | 4851854.26 | 606031.62 |
| DRP B | 4852058.33 | 606495.83 |

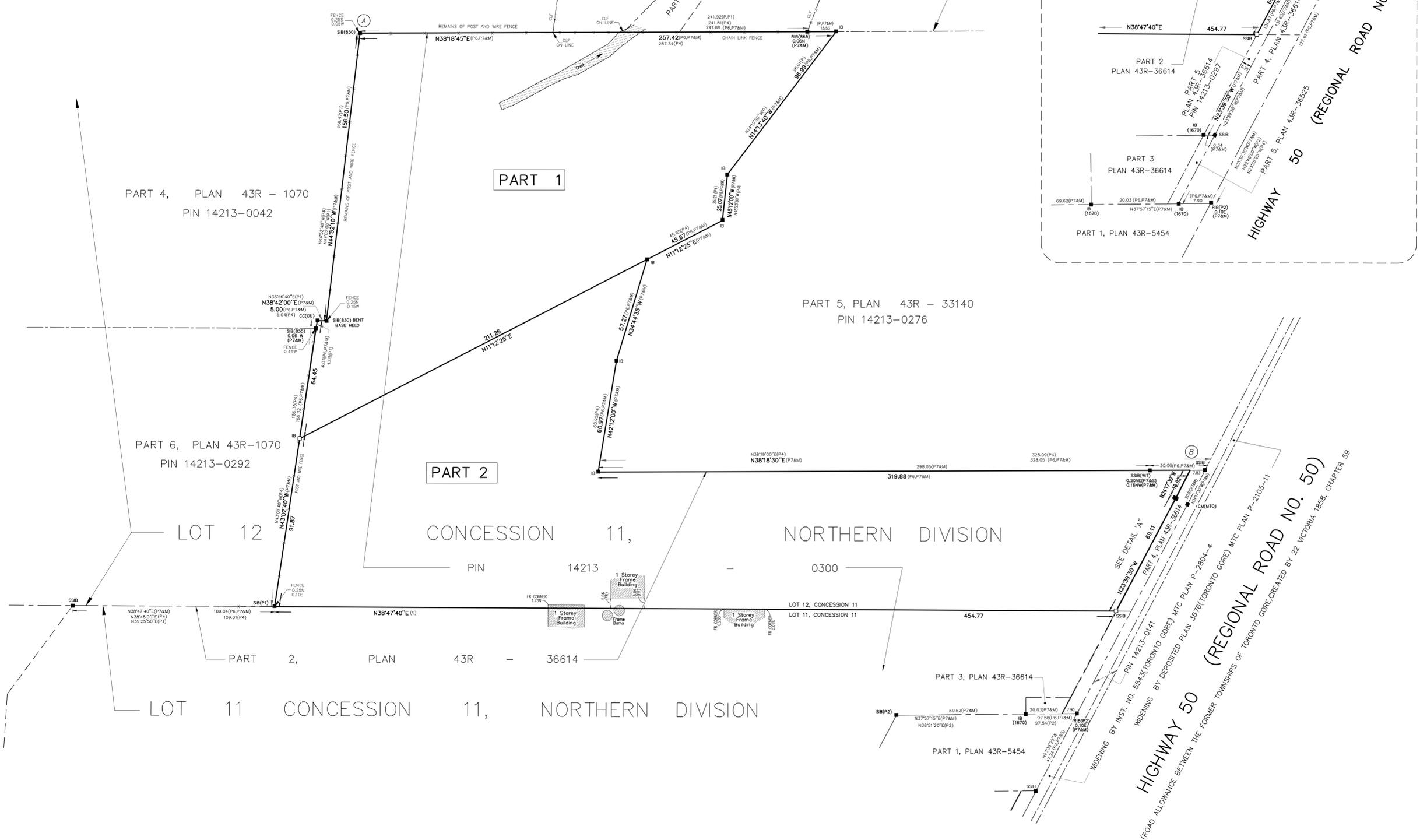
Note
 PARTS 4 AND 5 PLAN 43R-36614 DEDICATED AS PUBLIC HIGHWAY
 BY LAW No. 54-2015, INSTRUMENT No. PR1809285.

- Legend**
- DENOTES SURVEY MONUMENT PLANTED
 - DENOTES SURVEY MONUMENT FOUND
 - SSB DENOTES STANDARD IRON BAR
 - SSIB DENOTES SHORT STANDARD IRON BAR
 (USED WHERE BURIED UTILITY COULD BE OF CONCERN)
 - IB DENOTES IRON BAR
 - S DENOTES SET
 - M DENOTES MEASURED
 - CU DENOTES ORIGIN UNKNOWN
 - P DENOTES PLAN M-343
 - P1 DENOTES PLAN 43R-1070
 - D DENOTES INST. NO. R01032242
 - P2 DENOTES PLAN 43R-5454
 - P3 DENOTES EXPROPRIATION PLAN 5543(MTO PLAN P-2804-4)
 - P4 DENOTES PLAN 43R-33140
 - P5 DENOTES PLAN 43R-35661
 - P6 DENOTES PLAN 43R-35655
 - P7 DENOTES PLAN 43R-36614
 - MMM DENOTES MMM GROUP
 - 1670 DENOTES R.G. PEARSON, OLS
 - 865 DENOTES E. BIASON, OLS
 - 830 DENOTES E.W. PETZOLD, OLS
 - 1493 DENOTES J.F.O. YOUNG, OLS
 - MTO DENOTES MINISTRY OF TRANSPORTATION OF ONTARIO
 - CLF DENOTES CHAIN LINK FENCE
 - N/S/E/W DENOTES NORTH/SOUTH/EAST/WEST
- ALL FOUND MONUMENTS ARE (1670) UNLESS OTHERWISE NOTED
 ALL PROPERTY LINES ARE FENCED UNLESS OTHERWISE NOTED

Surveyor's Certificate
 I CERTIFY THAT:
 1. THIS SURVEY AND PLAN ARE CORRECT AND IN ACCORDANCE WITH
 THE SURVEYS ACT, THE LAND TITLES ACT AND THE SURVEYORS ACT AND
 THE REGULATIONS MADE UNDER THEM.
 2. THE SURVEY WAS COMPLETED ON THE _____ DAY OF _____, 2018

August 31, 2018
 Date
 Michele Pearson
 Ontario Land Surveyor

CITY OF BRAMPTON
 10933 JANE STREET, SECOND FLOOR, MAPLE
 ONTARIO, L6A 1S1
 O. (289) 533-5453
 E. : michelepearson@pearsonandpearson.ca
 DRAWING : 1585-Hwy50-10192A-RP.DWG PROJECT : 1585
 CALC. BY JM DRAWN BY TM CHECKED BY MP/JM



PART 4, PLAN 43R-1070
 PIN 14213-0042

PART 1

PART 5, PLAN 43R-33140
 PIN 14213-0276

PART 6, PLAN 43R-1070
 PIN 14213-0292

PART 2

LOT 12

CONCESSION 11,
 NORTHERN DIVISION

PIN 14213-0300

LOT 11 CONCESSION 11,
 NORTHERN DIVISION

PART 2, PLAN 43R-36614

PART 3, PLAN 43R-36614

PART 1, PLAN 43R-5454

SEE DETAIL 'A'
 N2°38'30\"/>

Appendix E

Laboratory Certificates of Analysis (Soil)

TABLE E.1: Field Blank QA/QC Results
Soil Samples
10192 Highway 50, Brampton, ON

| Sample Location | | | TRIP BLANK |
|--|------|-------|------------|
| Laboratory Sample ID | | | 265188 |
| SNC-Lavalin Sample ID | | | Trip Blank |
| Sampling Date (yyyy/mm/dd) | | | 2019/06/10 |
| Parameter | RDL | Units | |
| <u>Volatile Organic Compounds</u> | | | |
| Acetone | 0.50 | µg/g | < |
| Benzene | 0.02 | µg/g | < |
| Bromodichloromethane | 0.05 | µg/g | < |
| Bromoform | 0.05 | µg/g | < |
| Bromomethane | 0.05 | µg/g | < |
| Carbon Tetrachloride | 0.05 | µg/g | < |
| Chlorobenzene | 0.05 | µg/g | < |
| Chloroform | 0.04 | µg/g | < |
| Dibromochloromethane | 0.05 | µg/g | < |
| Dichlorobenzene, 1,2- (o-DCB) | 0.05 | µg/g | < |
| Dichlorobenzene, 1,3- (m-DCB) | 0.05 | µg/g | < |
| Dichlorobenzene, 1,4- (p-DCB) | 0.05 | µg/g | < |
| Dichlorodifluoromethane | 0.05 | µg/g | < |
| Dichloroethane, 1,1- | 0.02 | µg/g | < |
| Dichloroethane, 1,2- | 0.03 | µg/g | < |
| Dichloroethylene, 1,1- | 0.05 | µg/g | < |
| Dichloroethylene, cis-1,2- | 0.02 | µg/g | < |
| Dichloroethylene, trans-1,2- | 0.05 | µg/g | < |
| Dichloropropane, 1,2- | 0.03 | µg/g | < |
| Dichloropropene, 1,3- | 0.04 | µg/g | < |
| Ethylbenzene | 0.05 | µg/g | < |
| Ethylene Dibromide (Dibromoethane, 1,2-) | 0.04 | µg/g | < |
| Hexane (n) | 0.05 | µg/g | < |
| Methyl Ethyl Ketone (2-Butanone) | 0.50 | µg/g | < |
| Methyl Isobutyl Ketone | 0.50 | µg/g | < |
| Methyl t-butyl ether (MTBE) | 0.05 | µg/g | < |
| Methylene Chloride | 0.05 | µg/g | < |
| Styrene | 0.05 | µg/g | < |
| Tetrachloroethane, 1,1,1,2- | 0.04 | µg/g | < |
| Tetrachloroethane, 1,1,2,2- | 0.05 | µg/g | < |
| Tetrachloroethylene | 0.05 | µg/g | < |
| Toluene | 0.05 | µg/g | < |
| Trichloroethane, 1,1,1- | 0.05 | µg/g | < |
| Trichloroethane, 1,1,2- | 0.04 | µg/g | < |
| Trichloroethylene | 0.03 | µg/g | < |
| Trichlorofluoromethane | 0.05 | µg/g | < |
| Vinyl Chloride | 0.02 | µg/g | < |
| Xylenes | 0.05 | µg/g | < |
| Xylenes, m+p- | 0.05 | µg/g | < |
| Xylenes, o- | 0.05 | µg/g | < |

Footnotes:

Additional terms may be defined within the body of SNC-Lavalin's report.

RDL - Reportable Detection Limit, unless otherwise noted

< - Denotes concentration less than indicated detection limit

"-" - Not analyzed

na - Not applicable

mbgs - metres below ground surface

BOLD Concentration greater than Table 8 Standard

¹ Table 9 generic site condition standards for use within 30 m of a water body in a non-potable groundwater condition for residential/ parkland/ institutional/ industrial/ commercial/ community property use (MOE, 2011)

TABLE E.2: Field Duplicate RPD Calculations
Soil Samples
10192 Highway 50, Brampton, ON

| Sample Location Laboratory Sample ID SNC-Lavalin Sample ID Sampling Date (yyyy/mm/dd) Depth Interval (mbgs) Field Screen (ppmv) | | RPD | BH33 294685 BH33-2 2019/06/19 0.6 - 1.2 <5 | BH33 294693 BH33-22 2019/06/19 0.6 - 1.2 <5 Duplicate of BH33-2 | RPD | BH33 294696 BH33-7 2019/06/19 3.7 - 4.3 <5 | BH33 294732 BH33-77 2019/06/19 3.7 - 4.3 <5 Duplicate of BH33-7 | RPD | BH-75 624941 BH-75-02 2019/10/16 0.8 - 1.4 20 | BH-75 624953 BH-75-22 2019/10/16 0.8 - 1.4 20 Duplicate of BH-75-02 | RPD |
|--|-------|---------------|---|--|-----|---|--|-----|--|--|------|
| Parameter | Units | Limit 100% | | | | | | | | | |
| General Chemistry | | | | | | | | | | | |
| Free Cyanide | µg/g | 100% | < 0.040 | < 0.040 | * | - | - | - | - | - | - |
| Electrical Conductivity | µS/cm | 100% | 183 | 191 | 4% | - | - | - | 275 | 230 | 18% |
| pH | pH | 100% | 7.75 | 7.62 | * | - | - | - | - | - | - |
| Sodium Adsorption Ratio | None | 100% | 0.451 | 0.455 | * | - | - | - | 0.969 | 0.822 | * |
| Total Metals | | | | | | | | | | | |
| Aluminum | µg/g | na | - | - | - | - | - | - | 27,400 | 17,900 | 42% |
| Antimony | µg/g | 100% | < 0.8 | < 0.8 | * | - | - | - | < 0.8 | < 0.8 | * |
| Arsenic | µg/g | 100% | 4 | 4 | * | - | - | - | 4 | 3 | * |
| Barium | µg/g | 100% | 81 | 98 | 19% | - | - | - | 175 | 113 | 43% |
| Beryllium | µg/g | 100% | < 0.5 | 0.5 | * | - | - | - | 1 | 0.7 | * |
| Bismuth | µg/g | na | - | - | - | - | - | - | 0.2 | 0.1 | * |
| Boron | µg/g | 100% | 7 | 8 | * | - | - | - | 6 | 7 | * |
| Boron (Hot Water Soluble) | µg/g | 100% | < 0.10 | < 0.10 | * | - | - | - | - | - | - |
| Cadmium | µg/g | 100% | < 0.5 | < 0.5 | * | - | - | - | < 0.5 | < 0.5 | * |
| Chromium (total) | µg/g | 100% | 19 | 22 | 15% | - | - | - | 38 | 27 | 34% |
| Chromium (VI) | µg/g | 100% | < 0.2 | < 0.2 | * | - | - | - | - | - | - |
| Cobalt | µg/g | 100% | 9.1 | 10 | 9% | - | - | - | 15.2 | 11.4 | 29% |
| Copper | µg/g | 100% | 18 | 18 | 0% | - | - | - | 27 | 20 | 30% |
| Iron | µg/g | na | - | - | - | - | - | - | 36,600 | 25,500 | 36% |
| Lead | µg/g | 100% | 8 | 9 | 12% | - | - | - | 16 | 10 | 46% |
| Lithium | µg/g | na | - | - | - | - | - | - | 24.2 | 18 | 29% |
| Manganese | µg/g | na | - | - | - | - | - | - | 1,070 | 670 | 46% |
| Mercury | µg/g | 100% | < 0.10 | < 0.10 | * | - | - | - | - | - | - |
| Molybdenum | µg/g | 100% | < 0.5 | < 0.5 | * | - | - | - | < 0.5 | < 0.5 | * |
| Nickel | µg/g | 100% | 21 | 24 | 13% | - | - | - | 33 | 25 | 28% |
| Phosphorous | µg/g | na | - | - | - | - | - | - | 813 | 756 | 7% |
| Selenium | µg/g | 100% | < 0.4 | < 0.4 | * | - | - | - | < 0.8 | < 0.8 | * |
| Silver | µg/g | 100% | < 0.2 | < 0.2 | * | - | - | - | < 0.4 | < 0.4 | * |
| Strontium | µg/g | na | - | - | - | - | - | - | 31 | 117 | 116% |
| Thallium | µg/g | 100% | < 0.4 | < 0.4 | * | - | - | - | < 0.4 | < 0.4 | * |
| Titanium | µg/g | na | - | - | - | - | - | - | 311 | 279 | 11% |
| Uranium | µg/g | 100% | < 0.5 | < 0.5 | * | - | - | - | 0.64 | 0.63 | * |
| Vanadium | µg/g | 100% | 29 | 31 | 7% | - | - | - | 47 | 36 | 27% |
| Zinc | µg/g | 100% | 46 | 46 | 0% | - | - | - | 93 | 61 | 42% |
| Zirconium | µg/g | na | - | - | - | - | - | - | 5.7 | 5.6 | 2% |
| Petroleum Hydrocarbon (PHC) Fractions | | | | | | | | | | | |
| PHC F1 | µg/g | 100% | - | - | - | < 5 | < 5 | * | - | - | - |
| PHC F2 | µg/g | 100% | - | - | - | < 10 | < 10 | * | - | - | - |
| PHC F3 | µg/g | 100% | - | - | - | < 50 | < 50 | * | - | - | - |
| PHC F4 | µg/g | 100% | - | - | - | < 50 | < 50 | * | - | - | - |
| Volatile Organic Compounds | | | | | | | | | | | |
| Acetone | µg/g | 100% | - | - | - | < 0.50 | < 0.50 | * | - | - | - |
| Benzene | µg/g | 100% | - | - | - | < 0.02 | < 0.02 | * | - | - | - |
| Bromodichloromethane | µg/g | 100% | - | - | - | < 0.05 | < 0.05 | * | - | - | - |
| Bromoform | µg/g | 100% | - | - | - | < 0.05 | < 0.05 | * | - | - | - |
| Bromomethane | µg/g | 100% | - | - | - | < 0.05 | < 0.05 | * | - | - | - |
| Carbon Tetrachloride | µg/g | 100% | - | - | - | < 0.05 | < 0.05 | * | - | - | - |
| Chlorobenzene | µg/g | 100% | - | - | - | < 0.05 | < 0.05 | * | - | - | - |
| Chloroform | µg/g | 100% | - | - | - | < 0.04 | < 0.04 | * | - | - | - |
| Dibromochloromethane | µg/g | 100% | - | - | - | < 0.05 | < 0.05 | * | - | - | - |
| Dichlorobenzene, 1,2- (o-DCB) | µg/g | 100% | - | - | - | < 0.05 | < 0.05 | * | - | - | - |
| Dichlorobenzene, 1,3- (m-DCB) | µg/g | 100% | - | - | - | < 0.05 | < 0.05 | * | - | - | - |
| Dichlorobenzene, 1,4- (p-DCB) | µg/g | 100% | - | - | - | < 0.05 | < 0.05 | * | - | - | - |
| Dichlorodifluoromethane | µg/g | 100% | - | - | - | < 0.05 | < 0.05 | * | - | - | - |
| Dichloroethane, 1,1- | µg/g | 100% | - | - | - | < 0.02 | < 0.02 | * | - | - | - |
| Dichloroethane, 1,2- | µg/g | 100% | - | - | - | < 0.03 | < 0.03 | * | - | - | - |
| Dichloroethylene, 1,1- | µg/g | 100% | - | - | - | < 0.05 | < 0.05 | * | - | - | - |
| Dichloroethylene, cis-1,2- | µg/g | 100% | - | - | - | < 0.02 | < 0.02 | * | - | - | - |
| Dichloroethylene, trans-1,2- | µg/g | 100% | - | - | - | < 0.05 | < 0.05 | * | - | - | - |
| Dichloropropane, 1,2- | µg/g | 100% | - | - | - | < 0.03 | < 0.03 | * | - | - | - |
| Dichloropropene, 1,3- | µg/g | 100% | - | - | - | < 0.04 | < 0.04 | * | - | - | - |
| Ethylbenzene | µg/g | 100% | - | - | - | < 0.05 | < 0.05 | * | - | - | - |
| Ethylene Dibromide (Dibromoethane, 1,2-) | µg/g | 100% | - | - | - | < 0.04 | < 0.04 | * | - | - | - |
| Hexane (n) | µg/g | 100% | - | - | - | < 0.05 | < 0.05 | * | - | - | - |
| Methyl Ethyl Ketone (2-Butanone) | µg/g | 100% | - | - | - | < 0.50 | < 0.50 | * | - | - | - |
| Methyl Isobutyl Ketone | µg/g | 100% | - | - | - | < 0.50 | < 0.50 | * | - | - | - |
| Methyl t-butyl ether (MTBE) | µg/g | 100% | - | - | - | < 0.05 | < 0.05 | * | - | - | - |
| Methylene Chloride | µg/g | 100% | - | - | - | < 0.05 | < 0.05 | * | - | - | - |
| Styrene | µg/g | 100% | - | - | - | < 0.05 | < 0.05 | * | - | - | - |
| Tetrachloroethane, 1,1,1,2- | µg/g | 100% | - | - | - | < 0.04 | < 0.04 | * | - | - | - |
| Tetrachloroethane, 1,1,2,2- | µg/g | 100% | - | - | - | < 0.05 | < 0.05 | * | - | - | - |
| Tetrachloroethylene | µg/g | 100% | - | - | - | < 0.05 | < 0.05 | * | - | - | - |
| Toluene | µg/g | 100% | - | - | - | < 0.05 | < 0.05 | * | - | - | - |
| Trichloroethane, 1,1,1- | µg/g | 100% | - | - | - | < 0.05 | < 0.05 | * | - | - | - |
| Trichloroethane, 1,1,2- | µg/g | 100% | - | - | - | < 0.04 | < 0.04 | * | - | - | - |
| Trichloroethylene | µg/g | 100% | - | - | - | < 0.03 | < 0.03 | * | - | - | - |
| Trichlorofluoromethane | µg/g | 100% | - | - | - | < 0.05 | < 0.05 | * | - | - | - |
| Vinyl Chloride | µg/g | 100% | - | - | - | < 0.02 | < 0.02 | * | - | - | - |
| Xylenes | µg/g | 100% | - | - | - | < 0.05 | < 0.05 | * | - | - | - |

See footnotes on last page.

TABLE E.2: Field Duplicate RPD Calculations
Soil Samples
10192 Highway 50, Brampton, ON

| Sample Location Laboratory Sample ID SNC-Lavalin Sample ID Sampling Date (yyyy/mm/dd) Depth Interval (mbgs) Field Screen (ppmv) | | RPD Limit 100% | BH-75 624954 BH-75-06 2019/10/16 3.0 - 3.7 <5 | BH-75 624968 BH-75-66 2019/10/16 3.0 - 3.7 <5 Duplicate of BH-75-06 | RPD | SS9 624892 SS9 2019/10/16 0.0 - 0.6 - | SS9 624893 SS99 2019/10/16 0.0 - 0.6 - Duplicate of SS9 | RPD |
|--|-------|----------------------|--|--|-----|--|--|-----|
| Parameter | Units | | | | | | | |
| General Chemistry | | | | | | | | |
| Free Cyanide | µg/g | 100% | - | - | - | - | - | - |
| Electrical Conductivity | µS/cm | 100% | - | - | - | - | - | - |
| pH | pH | 100% | - | - | - | 11.3 | 11.3 | * |
| Sodium Adsorption Ratio | None | 100% | - | - | - | - | - | - |
| Total Metals | | | | | | | | |
| Aluminum | µg/g | na | - | - | - | - | - | - |
| Antimony | µg/g | 100% | - | - | - | - | - | - |
| Arsenic | µg/g | 100% | - | - | - | - | - | - |
| Barium | µg/g | 100% | - | - | - | - | - | - |
| Beryllium | µg/g | 100% | - | - | - | - | - | - |
| Bismuth | µg/g | na | - | - | - | - | - | - |
| Boron | µg/g | 100% | - | - | - | - | - | - |
| Boron (Hot Water Soluble) | µg/g | 100% | - | - | - | - | - | - |
| Cadmium | µg/g | 100% | - | - | - | - | - | - |
| Chromium (total) | µg/g | 100% | - | - | - | - | - | - |
| Chromium (VI) | µg/g | 100% | - | - | - | - | - | - |
| Cobalt | µg/g | 100% | - | - | - | - | - | - |
| Copper | µg/g | 100% | - | - | - | - | - | - |
| Iron | µg/g | na | - | - | - | - | - | - |
| Lead | µg/g | 100% | - | - | - | - | - | - |
| Lithium | µg/g | na | - | - | - | - | - | - |
| Manganese | µg/g | na | - | - | - | - | - | - |
| Mercury | µg/g | 100% | - | - | - | - | - | - |
| Molybdenum | µg/g | 100% | - | - | - | - | - | - |
| Nickel | µg/g | 100% | - | - | - | - | - | - |
| Phosphorous | µg/g | na | - | - | - | - | - | - |
| Selenium | µg/g | 100% | - | - | - | - | - | - |
| Silver | µg/g | 100% | - | - | - | - | - | - |
| Strontium | µg/g | na | - | - | - | - | - | - |
| Thallium | µg/g | 100% | - | - | - | - | - | - |
| Titanium | µg/g | na | - | - | - | - | - | - |
| Uranium | µg/g | 100% | - | - | - | - | - | - |
| Vanadium | µg/g | 100% | - | - | - | - | - | - |
| Zinc | µg/g | 100% | - | - | - | - | - | - |
| Zirconium | µg/g | na | - | - | - | - | - | - |
| Petroleum Hydrocarbon (PHC) Fractions | | | | | | | | |
| PHC F1 | µg/g | 100% | < 5 | < 5 | * | - | - | - |
| PHC F2 | µg/g | 100% | < 10 | < 10 | * | - | - | - |
| PHC F3 | µg/g | 100% | < 50 | < 50 | * | - | - | - |
| PHC F4 | µg/g | 100% | < 50 | < 50 | * | - | - | - |
| Volatile Organic Compounds | | | | | | | | |
| Acetone | µg/g | 100% | < 0.50 | < 0.50 | * | - | - | - |
| Benzene | µg/g | 100% | < 0.02 | < 0.02 | * | - | - | - |
| Bromodichloromethane | µg/g | 100% | < 0.05 | < 0.05 | * | - | - | - |
| Bromoform | µg/g | 100% | < 0.05 | < 0.05 | * | - | - | - |
| Bromomethane | µg/g | 100% | < 0.05 | < 0.05 | * | - | - | - |
| Carbon Tetrachloride | µg/g | 100% | < 0.05 | < 0.05 | * | - | - | - |
| Chlorobenzene | µg/g | 100% | < 0.05 | < 0.05 | * | - | - | - |
| Chloroform | µg/g | 100% | < 0.04 | < 0.04 | * | - | - | - |
| Dibromochloromethane | µg/g | 100% | < 0.05 | < 0.05 | * | - | - | - |
| Dichlorobenzene, 1,2- (o-DCB) | µg/g | 100% | < 0.05 | < 0.05 | * | - | - | - |
| Dichlorobenzene, 1,3- (m-DCB) | µg/g | 100% | < 0.05 | < 0.05 | * | - | - | - |
| Dichlorobenzene, 1,4- (p-DCB) | µg/g | 100% | < 0.05 | < 0.05 | * | - | - | - |
| Dichlorodifluoromethane | µg/g | 100% | < 0.05 | < 0.05 | * | - | - | - |
| Dichloroethane, 1,1- | µg/g | 100% | < 0.02 | < 0.02 | * | - | - | - |
| Dichloroethane, 1,2- | µg/g | 100% | < 0.03 | < 0.03 | * | - | - | - |
| Dichloroethylene, 1,1- | µg/g | 100% | < 0.05 | < 0.05 | * | - | - | - |
| Dichloroethylene, cis-1,2- | µg/g | 100% | < 0.02 | < 0.02 | * | - | - | - |
| Dichloroethylene, trans-1,2- | µg/g | 100% | < 0.05 | < 0.05 | * | - | - | - |
| Dichloropropane, 1,2- | µg/g | 100% | < 0.03 | < 0.03 | * | - | - | - |
| Dichloropropene, 1,3- | µg/g | 100% | < 0.04 | < 0.04 | * | - | - | - |
| Ethylbenzene | µg/g | 100% | < 0.05 | < 0.05 | * | - | - | - |
| Ethylene Dibromide (Dibromoethane, 1,2-) | µg/g | 100% | < 0.04 | < 0.04 | * | - | - | - |
| Hexane (n) | µg/g | 100% | < 0.05 | < 0.05 | * | - | - | - |
| Methyl Ethyl Ketone (2-Butanone) | µg/g | 100% | < 0.50 | < 0.50 | * | - | - | - |
| Methyl Isobutyl Ketone | µg/g | 100% | < 0.50 | < 0.50 | * | - | - | - |
| Methyl t-butyl ether (MTBE) | µg/g | 100% | < 0.05 | < 0.05 | * | - | - | - |
| Methylene Chloride | µg/g | 100% | < 0.05 | < 0.05 | * | - | - | - |
| Styrene | µg/g | 100% | < 0.05 | < 0.05 | * | - | - | - |
| Tetrachloroethane, 1,1,1,2- | µg/g | 100% | < 0.04 | < 0.04 | * | - | - | - |
| Tetrachloroethane, 1,1,2,2- | µg/g | 100% | < 0.05 | < 0.05 | * | - | - | - |
| Tetrachloroethylene | µg/g | 100% | < 0.05 | < 0.05 | * | - | - | - |
| Toluene | µg/g | 100% | < 0.05 | < 0.05 | * | - | - | - |
| Trichloroethane, 1,1,1- | µg/g | 100% | < 0.05 | < 0.05 | * | - | - | - |
| Trichloroethane, 1,1,2- | µg/g | 100% | < 0.04 | < 0.04 | * | - | - | - |
| Trichloroethylene | µg/g | 100% | < 0.03 | < 0.03 | * | - | - | - |
| Trichlorofluoromethane | µg/g | 100% | < 0.05 | < 0.05 | * | - | - | - |
| Vinyl Chloride | µg/g | 100% | < 0.02 | < 0.02 | * | - | - | - |
| Xylenes | µg/g | 100% | < 0.05 | < 0.05 | * | - | - | - |

See footnotes on last page.

**TABLE E.2: Field Duplicate RPD Calculations
Soil Samples
10192 Highway 50, Brampton, ON**

Footnotes:

Additional terms may be defined within the body of SNC-Lavalin's report.

< - Denotes concentration less than indicated detection limit

"-" - Not analyzed

na - Not applicable

mbgs - metres below ground surface

Field Screen - organic vapour meter reading

Conversion factor of 1% LEL = 110 ppmv applied

ppmv - parts per million by volume (relative to hexane)

µg/g - micrograms per gram, dry weight basis

µS/cm - microSiemens per centimetre

* - RPD not calculable

RPD - Relative Percent Difference (not calculated when one or both results are less than or equal to 5X RDL)

BOLD RPD exceeds limit

CLIENT NAME: SNC LAVALIN INC
235 LESMILL ROAD
TORONTO, ON M3B 2V1
(416) 679-6000

ATTENTION TO: Robert Mitzakov

PROJECT: City of Brampton - Phase II

AGAT WORK ORDER: 19T477958

SOIL ANALYSIS REVIEWED BY: Amanjot Bhela, Inorganic Supervisor

TRACE ORGANICS REVIEWED BY: Pinkal Patel, Report Reviewer

DATE REPORTED: Jun 20, 2019

PAGES (INCLUDING COVER): 24

VERSION*: 3

Should you require any information regarding this analysis please contact your client services representative at (905) 712-5100

***NOTES**

VERSION 3: Revised report with separate ORP package removed - July 17, 2019.
Revised report with sample ID amendment issued on July 12, 2019.

All samples will be disposed of within 30 days following analysis. Please contact the lab if you require additional sample storage time.



Certificate of Analysis

AGAT WORK ORDER: 19T477958

PROJECT: City of Brampton - Phase II

5835 COOPERS AVENUE
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CANADA L4Z 1Y2
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FAX (905)712-5122
<http://www.agatlabs.com>

CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Robert Mitzakov

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - Metals & Inorganics (Soil)

DATE RECEIVED: 2019-06-10

DATE REPORTED: 2019-06-20

| Parameter | Unit | SAMPLE DESCRIPTION: | | BH02-01 | BH03-02 | BH18-02 |
|---------------------------|----------|---------------------|-------|------------|------------|------------|
| | | SAMPLE TYPE: | | Soil | Soil | Soil |
| | | DATE SAMPLED: | | 2019-06-10 | 2019-06-10 | 2019-06-10 |
| | | G / S | RDL | 265181 | 265184 | 265187 |
| Antimony | µg/g | 1.3 | 0.8 | <0.8 | <0.8 | <0.8 |
| Arsenic | µg/g | 18 | 1 | 3 | 4 | 3 |
| Barium | µg/g | 220 | 2 | 21 | 158 | 102 |
| Beryllium | µg/g | 2.5 | 0.5 | <0.5 | 0.7 | 0.6 |
| Boron | µg/g | 36 | 5 | 5 | 11 | 10 |
| Boron (Hot Water Soluble) | µg/g | 1.5 | 0.10 | 0.15 | 0.13 | <0.10 |
| Cadmium | µg/g | 1.2 | 0.5 | <0.5 | <0.5 | <0.5 |
| Chromium | µg/g | 70 | 2 | 8 | 34 | 26 |
| Cobalt | µg/g | 22 | 0.5 | 2.5 | 12.6 | 9.6 |
| Copper | µg/g | 92 | 1 | 10 | 22 | 17 |
| Lead | µg/g | 120 | 1 | 34 | 12 | 8 |
| Molybdenum | µg/g | 2 | 0.5 | 1.1 | <0.5 | <0.5 |
| Nickel | µg/g | 82 | 1 | 14 | 28 | 23 |
| Selenium | µg/g | 1.5 | 0.4 | 0.4 | 0.4 | 0.4 |
| Silver | µg/g | 0.5 | 0.2 | <0.2 | <0.2 | <0.2 |
| Thallium | µg/g | 1 | 0.4 | <0.4 | <0.4 | <0.4 |
| Uranium | µg/g | 2.5 | 0.5 | <0.5 | 0.5 | 0.5 |
| Vanadium | µg/g | 86 | 1 | 30 | 47 | 35 |
| Zinc | µg/g | 290 | 5 | 56 | 65 | 47 |
| Chromium VI | µg/g | 0.66 | 0.2 | <0.2 | <0.2 | <0.2 |
| Cyanide | µg/g | 0.051 | 0.040 | <0.040 | <0.040 | <0.040 |
| Mercury | µg/g | 0.27 | 0.10 | <0.10 | <0.10 | <0.10 |
| Electrical Conductivity | mS/cm | 0.7 | 0.005 | 0.201 | 0.374 | 0.810 |
| Sodium Adsorption Ratio | NA | 5 | NA | 0.263 | 0.834 | 2.87 |
| pH, 2:1 CaCl2 Extraction | pH Units | | NA | 7.95 | 7.38 | 7.35 |

Certified By:

Anamjot Bhela




AGAT Laboratories

Certificate of Analysis

AGAT WORK ORDER: 19T477958

PROJECT: City of Brampton - Phase II

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<http://www.agatlabs.com>

CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Robert Mitzakov

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - Metals & Inorganics (Soil)

DATE RECEIVED: 2019-06-10

DATE REPORTED: 2019-06-20

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 9: Generic Site Condition Standards for Use within 30 m of a Water Body in a Non-Potable Ground Water Condition - 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.
265181-265187 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:

Anamjot Bhela



Certificate of Analysis

AGAT WORK ORDER: 19T477958

PROJECT: City of Brampton - Phase II

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<http://www.agatlabs.com>

CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Robert Mitzakov

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - PAHs (Soil)

DATE RECEIVED: 2019-06-10

DATE REPORTED: 2019-06-20

| Parameter | Unit | SAMPLE DESCRIPTION: | | BH02-02 | BH03-01 |
|----------------------------|------|---------------------|------|---------|---------|
| | | G / S | RDL | 265182 | 265185 |
| Naphthalene | µg/g | 0.09 | 0.05 | <0.05 | <0.05 |
| Acenaphthylene | µg/g | 0.093 | 0.05 | <0.05 | <0.05 |
| Acenaphthene | µg/g | 0.072 | 0.05 | <0.05 | <0.05 |
| Fluorene | µg/g | 0.19 | 0.05 | <0.05 | <0.05 |
| Phenanthrene | µg/g | 0.69 | 0.05 | <0.05 | <0.05 |
| Anthracene | µg/g | 0.22 | 0.05 | <0.05 | <0.05 |
| Fluoranthene | µg/g | 0.69 | 0.05 | <0.05 | <0.05 |
| Pyrene | µg/g | 1 | 0.05 | <0.05 | <0.05 |
| Benz(a)anthracene | µg/g | 0.36 | 0.05 | <0.05 | <0.05 |
| Chrysene | µg/g | 2.8 | 0.05 | <0.05 | <0.05 |
| Benzo(b)fluoranthene | µg/g | 0.47 | 0.05 | <0.05 | <0.05 |
| Benzo(k)fluoranthene | µg/g | 0.48 | 0.05 | <0.05 | <0.05 |
| Benzo(a)pyrene | µg/g | 0.3 | 0.05 | <0.05 | <0.05 |
| Indeno(1,2,3-cd)pyrene | µg/g | 0.23 | 0.05 | <0.05 | <0.05 |
| Dibenz(a,h)anthracene | µg/g | 0.1 | 0.05 | <0.05 | <0.05 |
| Benzo(g,h,i)perylene | µg/g | 0.68 | 0.05 | <0.05 | <0.05 |
| 2-and 1-methyl Naphthalene | µg/g | 0.59 | 0.05 | <0.05 | <0.05 |
| Moisture Content | % | | 0.1 | 15.7 | 20.8 |
| Surrogate | Unit | Acceptable Limits | | | |
| Chrysene-d12 | % | 50-140 | | 110 | 98 |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 9: Generic Site Condition Standards for Use within 30 m of a Water Body in a Non-Potable Ground Water Condition - 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.

265182-265185 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.

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AGAT WORK ORDER: 19T477958

PROJECT: City of Brampton - Phase II

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CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Robert Mitzakov

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2019-06-10

DATE REPORTED: 2019-06-20

| Parameter | Unit | SAMPLE DESCRIPTION: | | BH02-07 | BH03-07 |
|--------------------------------|------|---------------------|-----|---------|---------|
| | | G / S | RDL | 265183 | 265186 |
| F1 (C6 to C10) | µg/g | | 5 | <5 | <5 |
| F1 (C6 to C10) minus BTEX | µg/g | 25 | 5 | <5 | <5 |
| F2 (C10 to C16) | µg/g | 10 | 10 | <10 | <10 |
| F3 (C16 to C34) | µg/g | 240 | 50 | <50 | <50 |
| F4 (C34 to C50) | µg/g | 120 | 50 | <50 | <50 |
| Gravimetric Heavy Hydrocarbons | µg/g | 120 | 50 | NA | NA |
| Moisture Content | % | | 0.1 | 14.2 | 14.6 |
| Surrogate | Unit | Acceptable Limits | | | |
| Terphenyl | % | 60-140 | | 108 | 130 |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 9: Generic Site Condition Standards for Use within 30 m of a Water Body in a Non-Potable Ground Water Condition - 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.

265183-265186

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 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 contribution.
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC6 and nC10 response factors are within 30% of Toluene response factor.
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.
Fractions 1-4 are quantified without the contribution of PAHs. Under Ontario Regulation 153, results are considered valid without determining the PAH contribution if not requested by the client.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:



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AGAT WORK ORDER: 19T477958

PROJECT: City of Brampton - Phase II

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CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Robert Mitzakov

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - VOCs (MEOH)

DATE RECEIVED: 2019-06-10

DATE REPORTED: 2019-06-20

| Parameter | Unit | SAMPLE DESCRIPTION: | | | Trip Blank |
|-----------------------------|------|---------------------|------|--------|------------|
| | | G / S | RDL | 265188 | |
| Dichlorodifluoromethane | µg/g | 0.05 | 0.05 | <0.05 | |
| Vinyl Chloride | ug/g | 0.02 | 0.02 | <0.02 | |
| Bromomethane | ug/g | 0.05 | 0.05 | <0.05 | |
| Trichlorofluoromethane | ug/g | 0.25 | 0.05 | <0.05 | |
| Acetone | ug/g | 0.5 | 0.50 | <0.50 | |
| 1,1-Dichloroethylene | ug/g | 0.05 | 0.05 | <0.05 | |
| Methylene Chloride | ug/g | 0.05 | 0.05 | <0.05 | |
| Trans- 1,2-Dichloroethylene | ug/g | 0.05 | 0.05 | <0.05 | |
| Methyl tert-butyl Ether | ug/g | 0.05 | 0.05 | <0.05 | |
| 1,1-Dichloroethane | ug/g | 0.05 | 0.02 | <0.02 | |
| Methyl Ethyl Ketone | ug/g | 0.5 | 0.50 | <0.50 | |
| Cis- 1,2-Dichloroethylene | ug/g | 0.05 | 0.02 | <0.02 | |
| Chloroform | ug/g | 0.05 | 0.04 | <0.04 | |
| 1,2-Dichloroethane | ug/g | 0.05 | 0.03 | <0.03 | |
| 1,1,1-Trichloroethane | ug/g | 0.05 | 0.05 | <0.05 | |
| Carbon Tetrachloride | ug/g | 0.05 | 0.05 | <0.05 | |
| Benzene | ug/g | 0.02 | 0.02 | <0.02 | |
| 1,2-Dichloropropane | ug/g | 0.05 | 0.03 | <0.03 | |
| Trichloroethylene | ug/g | 0.05 | 0.03 | <0.03 | |
| Bromodichloromethane | ug/g | 0.05 | 0.05 | <0.05 | |
| Methyl Isobutyl Ketone | ug/g | 0.5 | 0.50 | <0.50 | |
| 1,1,2-Trichloroethane | ug/g | 0.05 | 0.04 | <0.04 | |
| Toluene | ug/g | 0.2 | 0.05 | <0.05 | |
| Dibromochloromethane | ug/g | 0.05 | 0.05 | <0.05 | |
| Ethylene Dibromide | ug/g | 0.05 | 0.04 | <0.04 | |
| Tetrachloroethylene | ug/g | 0.05 | 0.05 | <0.05 | |
| 1,1,1,2-Tetrachloroethane | ug/g | 0.05 | 0.04 | <0.04 | |
| Chlorobenzene | ug/g | 0.05 | 0.05 | <0.05 | |
| Ethylbenzene | ug/g | 0.05 | 0.05 | <0.05 | |
| m & p-Xylene | ug/g | 0.05 | 0.05 | <0.05 | |

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 19T477958

PROJECT: City of Brampton - Phase II

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CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Robert Mitzakov

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - VOCs (MEOH)

DATE RECEIVED: 2019-06-10

DATE REPORTED: 2019-06-20

| SAMPLE DESCRIPTION: | | Trip Blank | | |
|---------------------------|------------|-------------------|------|--------|
| SAMPLE TYPE: | | Soil | | |
| DATE SAMPLED: | | 2019-06-10 | | |
| Parameter | Unit | G / S | RDL | 265188 |
| Bromoform | ug/g | 0.05 | 0.05 | <0.05 |
| Styrene | ug/g | 0.05 | 0.05 | <0.05 |
| 1,1,2,2-Tetrachloroethane | ug/g | 0.05 | 0.05 | <0.05 |
| o-Xylene | ug/g | | 0.05 | <0.05 |
| 1,3-Dichlorobenzene | ug/g | 0.05 | 0.05 | <0.05 |
| 1,4-Dichlorobenzene | ug/g | 0.05 | 0.05 | <0.05 |
| 1,2-Dichlorobenzene | ug/g | 0.05 | 0.05 | <0.05 |
| Xylene Mixture | ug/g | 0.05 | 0.05 | <0.05 |
| 1,3-Dichloropropene | µg/g | 0.05 | 0.04 | <0.04 |
| n-Hexane | µg/g | 0.05 | 0.05 | <0.05 |
| Surrogate | Unit | Acceptable Limits | | |
| Toluene-d8 | % Recovery | 50-140 | | 104 |
| 4-Bromofluorobenzene | % Recovery | 50-140 | | 79 |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 9: Generic Site Condition Standards for Use within 30 m of a Water Body in a Non-Potable Ground Water Condition - 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.

265188 A small amount of methanol extract was diluted in water and analyzed by purge & trap GC/MS.
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:



Certificate of Analysis

AGAT WORK ORDER: 19T477958

PROJECT: City of Brampton - Phase II

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<http://www.agatlabs.com>

CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Robert Mitzakov

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - VOCs (Soil)

DATE RECEIVED: 2019-06-10

DATE REPORTED: 2019-06-20

| Parameter | Unit | SAMPLE DESCRIPTION: | | BH02-07 | BH03-07 |
|-----------------------------|------|---------------------|------|------------|------------|
| | | SAMPLE TYPE: | | Soil | Soil |
| | | DATE SAMPLED: | | 2019-06-10 | 2019-06-10 |
| | | G / S | RDL | 265183 | 265186 |
| Dichlorodifluoromethane | µg/g | 0.05 | 0.05 | <0.05 | <0.05 |
| Vinyl Chloride | ug/g | 0.02 | 0.02 | <0.02 | <0.02 |
| Bromomethane | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| Trichlorofluoromethane | ug/g | 0.25 | 0.05 | <0.05 | <0.05 |
| Acetone | ug/g | 0.5 | 0.50 | <0.50 | <0.50 |
| 1,1-Dichloroethylene | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| Methylene Chloride | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| Trans- 1,2-Dichloroethylene | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| Methyl tert-butyl Ether | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| 1,1-Dichloroethane | ug/g | 0.05 | 0.02 | <0.02 | <0.02 |
| Methyl Ethyl Ketone | ug/g | 0.5 | 0.50 | <0.50 | <0.50 |
| Cis- 1,2-Dichloroethylene | ug/g | 0.05 | 0.02 | <0.02 | <0.02 |
| Chloroform | ug/g | 0.05 | 0.04 | <0.04 | <0.04 |
| 1,2-Dichloroethane | ug/g | 0.05 | 0.03 | <0.03 | <0.03 |
| 1,1,1-Trichloroethane | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| Carbon Tetrachloride | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| Benzene | ug/g | 0.02 | 0.02 | <0.02 | <0.02 |
| 1,2-Dichloropropane | ug/g | 0.05 | 0.03 | <0.03 | <0.03 |
| Trichloroethylene | ug/g | 0.05 | 0.03 | <0.03 | <0.03 |
| Bromodichloromethane | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| Methyl Isobutyl Ketone | ug/g | 0.5 | 0.50 | <0.50 | <0.50 |
| 1,1,2-Trichloroethane | ug/g | 0.05 | 0.04 | <0.04 | <0.04 |
| Toluene | ug/g | 0.2 | 0.05 | <0.05 | <0.05 |
| Dibromochloromethane | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| Ethylene Dibromide | ug/g | 0.05 | 0.04 | <0.04 | <0.04 |
| Tetrachloroethylene | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| 1,1,1,2-Tetrachloroethane | ug/g | 0.05 | 0.04 | <0.04 | <0.04 |
| Chlorobenzene | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| Ethylbenzene | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| m & p-Xylene | ug/g | | 0.05 | <0.05 | <0.05 |

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 19T477958

PROJECT: City of Brampton - Phase II

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MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
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FAX (905)712-5122
<http://www.agatlabs.com>

CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Robert Mitzakov

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - VOCs (Soil)

DATE RECEIVED: 2019-06-10

DATE REPORTED: 2019-06-20

| Parameter | Unit | SAMPLE DESCRIPTION: | | BH02-07 | BH03-07 |
|---------------------------|------------|---------------------|------|---------|---------|
| | | G / S | RDL | 265183 | 265186 |
| Bromoform | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| Styrene | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| 1,1,2,2-Tetrachloroethane | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| o-Xylene | ug/g | | 0.05 | <0.05 | <0.05 |
| 1,3-Dichlorobenzene | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| 1,4-Dichlorobenzene | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| 1,2-Dichlorobenzene | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| Xylene Mixture | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| 1,3-Dichloropropene | µg/g | 0.05 | 0.04 | <0.04 | <0.04 |
| n-Hexane | µg/g | 0.05 | 0.05 | <0.05 | <0.05 |
| Surrogate | Unit | Acceptable Limits | | | |
| Toluene-d8 | % Recovery | 50-140 | | 109 | 110 |
| 4-Bromofluorobenzene | % Recovery | 50-140 | | 78 | 74 |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 9: Generic Site Condition Standards for Use within 30 m of a Water Body in a Non-Potable Ground Water Condition - 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.

265183-265186 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:



Certificate of Analysis

AGAT WORK ORDER: 19T477958

PROJECT: City of Brampton - Phase II

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<http://www.agatlabs.com>

CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Robert Mitzakov

SAMPLING SITE:

SAMPLED BY:

OC Pesticides (Soil)

DATE RECEIVED: 2019-06-10

DATE REPORTED: 2019-06-20

| Parameter | Unit | SAMPLE DESCRIPTION: | | BH02-01 | BH03-02 |
|---------------------|------|---------------------|-------|------------|------------|
| | | SAMPLE TYPE: | | Soil | Soil |
| | | DATE SAMPLED: | | 2019-06-10 | 2019-06-10 |
| | | G / S | RDL | 265181 | 265184 |
| Aldrin | µg/g | 0.05 | 0.005 | <0.005 | <0.005 |
| alpha - BHC | µg/g | | 0.005 | <0.005 | <0.005 |
| gamma-BHC (Lindane) | µg/g | 0.01 | 0.005 | <0.005 | <0.005 |
| Alpha-Chlordane | µg/g | | 0.005 | <0.005 | <0.005 |
| Gamma-Chlordane | µg/g | | 0.005 | <0.005 | <0.005 |
| Chlordane (Total) | µg/g | 0.05 | 0.007 | <0.007 | <0.007 |
| DDD (o,p') | µg/g | | 0.005 | <0.005 | <0.005 |
| pp'-DDD | µg/g | | 0.005 | <0.005 | <0.005 |
| DDD (o,p' + p,p') | µg/g | 0.05 | 0.007 | <0.007 | <0.007 |
| op'-DDE | µg/g | | 0.005 | <0.005 | <0.005 |
| pp'-DDE | µg/g | | 0.005 | <0.005 | <0.005 |
| DDE (Total) | µg/g | 0.05 | 0.007 | <0.007 | <0.007 |
| op'-DDT | µg/g | | 0.005 | <0.005 | <0.005 |
| pp'- DDT | µg/g | | 0.005 | <0.005 | <0.005 |
| DDT (Total) | µg/g | 1.4 | 0.007 | <0.007 | <0.007 |
| Endosulfan (I & II) | µg/g | 0.04 | 0.007 | <0.007 | <0.007 |
| Dieldrin | µg/g | 0.05 | 0.005 | <0.005 | <0.005 |
| Endrin | µg/g | 0.04 | 0.005 | <0.005 | <0.005 |
| Heptachlor | µg/g | 0.05 | 0.005 | <0.005 | <0.005 |
| Heptachlor Epoxide | µg/g | 0.05 | 0.005 | <0.005 | <0.005 |
| Methoxychlor | µg/g | 0.05 | 0.005 | <0.005 | <0.005 |
| Moisture Content | % | | 0.1 | 7.6 | 16.6 |
| OC Pest Extr | NA | | | Y | Y |
| Surrogate | Unit | Acceptable Limits | | | |
| TCMX | % | 60-130 | | 72 | 77 |
| Decachlorobiphenyl | % | 60-130 | | 80 | 86 |

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 19T477958

PROJECT: City of Brampton - Phase II

5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
TEL (905)712-5100
FAX (905)712-5122
<http://www.agatlabs.com>

CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Robert Mitzakov

SAMPLING SITE:

SAMPLED BY:

OC Pesticides (Soil)

DATE RECEIVED: 2019-06-10

DATE REPORTED: 2019-06-20

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 9: Generic Site Condition Standards for Use within 30 m of a Water Body in a Non-Potable Ground Water Condition - 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.

265181-265184

Results are based on the dry weight of the soil.

DDT total is a calculated parameter. The calculated value is the sum of op'DDT and pp'DDT.

DDD total is a calculated parameter. The calculated value is the sum of op'DDD and pp'DDD.

DDE total is a calculated parameter. The calculated value is the sum of op'DDE and pp'DDE.

Endosulfan total is a calculated parameter. The calculated value is the sum of Endosulfan I and Endosulfan II.

Chlordane total is a calculated parameter. The calculated value is the sum of Alpha-Chlordane and Gamma-Chlordane.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 19T477958

PROJECT: City of Brampton - Phase II

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CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Robert Mitzakov

SAMPLING SITE:

SAMPLED BY:

Phenoxy Acid Herbicides (Soil)

DATE RECEIVED: 2019-06-10

DATE REPORTED: 2019-06-20

| Parameter | Unit | SAMPLE DESCRIPTION: | | BH02-01 | BH03-02 | BH18-02 | |
|---------------------------|------|---------------------|------|------------|------------|------------|--------|
| | | SAMPLE TYPE: | | Soil | Soil | Soil | |
| | | DATE SAMPLED: | | 2019-06-10 | 2019-06-10 | 2019-06-10 | |
| | | G / S | RDL | 265181 | RDL | 265184 | 265187 |
| 2,4-D | ug/g | | 1.00 | <1.00 | 0.10 | <0.10 | <0.10 |
| 2,4,5-T | ug/g | | 1.00 | <1.00 | 0.10 | <0.10 | <0.10 |
| 2,4,5-TP (Silvex) | ug/g | | 1.00 | <1.00 | 0.10 | <0.10 | <0.10 |
| Dicamba | ug/g | | 1.00 | <1.00 | 0.10 | <0.10 | <0.10 |
| Dichlorprop | ug/g | | 1.00 | <1.00 | 0.10 | <0.10 | <0.10 |
| Dinoseb | ug/g | | 1.00 | <1.00 | 0.10 | <0.10 | <0.10 |
| Picloram | ug/g | | 1.00 | <1.00 | 0.10 | <0.10 | <0.10 |
| Diclofop-methyl | ug/g | | 1.00 | <1.00 | 0.10 | <0.10 | <0.10 |
| 2,3,4,6-Tetrachlorophenol | ug/g | | 0.50 | <0.50 | 0.05 | <0.05 | <0.05 |
| 2,4-Dichlorophenol | ug/g | 0.1 | 0.10 | <0.10 | 0.05 | <0.05 | <0.05 |
| 2,4,5-Trichlorophenol | ug/g | 0.1 | 0.10 | <0.10 | 0.05 | <0.05 | <0.05 |
| 2,4,6-Trichlorophenol | ug/g | 0.1 | 0.10 | <0.10 | 0.05 | <0.05 | <0.05 |
| Bromoxynil | ug/g | | 5.0 | <5.0 | 0.5 | <0.5 | <0.5 |
| MCP (Mecoprop) | ug/g | | 10.0 | <10.0 | 1.0 | <1.0 | <1.0 |
| MCPA | ug/g | | 10.0 | <10.0 | 1.0 | <1.0 | <1.0 |
| Pentachlorophenol | ug/g | 0.1 | 0.10 | <0.10 | 0.05 | <0.05 | <0.05 |
| Moisture Content | % | | 1.0 | 7.6 | 0.1 | 16.6 | 17.1 |
| Phenoxy Extr | NA | | | Y | | Y | Y |
| Surrogate | Unit | Acceptable Limits | | | | | |
| DCAA | % | 50-130 | | 70 | | 70 | 72 |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 9: Generic Site Condition Standards for Use within 30 m of a Water Body in a Non-Potable Ground Water Condition - 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.

265181 Dilution Factor=10
The sample extract was diluted due to the sample nature. The reporting detection limit was adjusted.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:



Guideline Violation

AGAT WORK ORDER: 19T477958

PROJECT: City of Brampton - Phase II

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CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Robert Mitzakov

| SAMPLEID | SAMPLE TITLE | GUIDELINE | ANALYSIS PACKAGE | PARAMETER | UNIT | GUIDEVALUE | RESULT |
|----------|--------------|-----------------|---|-------------------------|-------|------------|--------|
| 265187 | BH18-02 | ON T9 S RPI/ICC | O. Reg. 153(511) - Metals & Inorganics (Soil) | Electrical Conductivity | mS/cm | 0.7 | 0.810 |

Quality Assurance

CLIENT NAME: SNC LAVALIN INC
 PROJECT: City of Brampton - Phase II
 SAMPLING SITE:

AGAT WORK ORDER: 19T477958
 ATTENTION TO: Robert Mitzakov
 SAMPLED BY:

| Soil Analysis | | | | | | | | | | | | | | | |
|---|--------|-----------|-----------|--------|------|----------------|--------------|--------------------|-------|----------|--------------------|-------|--------------|-------------------|-------|
| RPT Date: Jun 20, 2019 | | | DUPLICATE | | | | Method Blank | REFERENCE MATERIAL | | | METHOD BLANK SPIKE | | MATRIX SPIKE | | |
| PARAMETER | Batch | Sample Id | Dup #1 | Dup #2 | RPD | Measured Value | | Acceptable Limits | | Recovery | Acceptable Limits | | Recovery | Acceptable Limits | |
| | | | | | | | | Lower | Upper | | Lower | Upper | | Lower | Upper |
| O. Reg. 153(511) - Metals & Inorganics (Soil) | | | | | | | | | | | | | | | |
| Antimony | 270807 | | <0.8 | <0.8 | NA | < 0.8 | 119% | 70% | 130% | 102% | 80% | 120% | 88% | 70% | 130% |
| Arsenic | 270807 | | 4 | 4 | NA | < 1 | 108% | 70% | 130% | 103% | 80% | 120% | 109% | 70% | 130% |
| Barium | 270807 | | 51 | 53 | 3.8% | < 2 | 107% | 70% | 130% | 101% | 80% | 120% | 95% | 70% | 130% |
| Beryllium | 270807 | | <0.5 | <0.5 | NA | < 0.5 | 80% | 70% | 130% | 98% | 80% | 120% | 87% | 70% | 130% |
| Boron | 270807 | | 6 | 6 | NA | < 5 | 70% | 70% | 130% | 102% | 80% | 120% | 84% | 70% | 130% |
| Boron (Hot Water Soluble) | 270866 | | <0.10 | <0.10 | NA | < 0.10 | 114% | 60% | 140% | 109% | 70% | 130% | 102% | 60% | 140% |
| Cadmium | 270807 | | 0.5 | 0.5 | NA | < 0.5 | 114% | 70% | 130% | 102% | 80% | 120% | 110% | 70% | 130% |
| Chromium | 270807 | | 14 | 14 | 0.0% | < 2 | 97% | 70% | 130% | 107% | 80% | 120% | 114% | 70% | 130% |
| Cobalt | 270807 | | 5.5 | 5.5 | 0.0% | < 0.5 | 95% | 70% | 130% | 102% | 80% | 120% | 101% | 70% | 130% |
| Copper | 270807 | | 25 | 25 | 0.0% | < 1 | 93% | 70% | 130% | 103% | 80% | 120% | 94% | 70% | 130% |
| Lead | 270807 | | 133 | 138 | 3.7% | < 1 | 110% | 70% | 130% | 92% | 80% | 120% | 90% | 70% | 130% |
| Molybdenum | 270807 | | 0.7 | 0.7 | NA | < 0.5 | 119% | 70% | 130% | 112% | 80% | 120% | 116% | 70% | 130% |
| Nickel | 270807 | | 14 | 14 | 0.0% | < 1 | 98% | 70% | 130% | 103% | 80% | 120% | 100% | 70% | 130% |
| Selenium | 270807 | | <0.4 | <0.4 | NA | < 0.4 | 130% | 70% | 130% | 96% | 80% | 120% | 100% | 70% | 130% |
| Silver | 270807 | | <0.2 | <0.2 | NA | < 0.2 | 120% | 70% | 130% | 105% | 80% | 120% | 100% | 70% | 130% |
| Thallium | 270807 | | <0.4 | <0.4 | NA | < 0.4 | 103% | 70% | 130% | 101% | 80% | 120% | 99% | 70% | 130% |
| Uranium | 270807 | | <0.5 | <0.5 | NA | < 0.5 | 102% | 70% | 130% | 103% | 80% | 120% | 109% | 70% | 130% |
| Vanadium | 270807 | | 24 | 24 | 0.0% | < 1 | 100% | 70% | 130% | 105% | 80% | 120% | 108% | 70% | 130% |
| Zinc | 270807 | | 97 | 99 | 2.0% | < 5 | 100% | 70% | 130% | 102% | 80% | 120% | 104% | 70% | 130% |
| Chromium VI | 266332 | | <0.2 | <0.2 | NA | < 0.2 | 110% | 70% | 130% | 100% | 80% | 120% | 101% | 70% | 130% |
| Cyanide | 265210 | | <0.040 | <0.040 | NA | < 0.040 | 95% | 70% | 130% | 101% | 80% | 120% | 99% | 70% | 130% |
| Mercury | 270807 | | <0.10 | <0.10 | NA | < 0.10 | 104% | 70% | 130% | 104% | 80% | 120% | 105% | 70% | 130% |
| Electrical Conductivity | 267591 | | 3.48 | 3.57 | 2.6% | < 0.005 | 101% | 90% | 110% | NA | | | NA | | |
| Sodium Adsorption Ratio | 267591 | | 39.2 | 39.6 | 1.0% | NA | NA | | | NA | | | NA | | |
| pH, 2:1 CaCl2 Extraction | 265210 | | 7.08 | 7.10 | 0.3% | NA | 100% | 80% | 120% | NA | | | NA | | |

Comments: NA signifies Not Applicable.

Duplicate Qualifier: As the measured result approaches the RL, the uncertainty associated with the value increases dramatically, thus duplicate acceptance limits apply only where the average of the two duplicates is greater than five times the RL

pH duplicates QA acceptance criteria was met relative as stated in Table 5-15 of Analytical Protocol document.

Certified By:

Amanjot Bhella


Quality Assurance

 CLIENT NAME: SNC LAVALIN INC
 PROJECT: City of Brampton - Phase II
 SAMPLING SITE:

 AGAT WORK ORDER: 19T477958
 ATTENTION TO: Robert Mitzakov
 SAMPLED BY:

Trace Organics Analysis

| RPT Date: Jun 20, 2019 | | | DUPLICATE | | | Method Blank | REFERENCE MATERIAL | | | METHOD BLANK SPIKE | | | MATRIX SPIKE | | |
|------------------------|-------|-----------|-----------|--------|-----|--------------|--------------------|-------------------|-------|--------------------|-------------------|-------|--------------|-------------------|-------|
| PARAMETER | Batch | Sample Id | Dup #1 | Dup #2 | RPD | | Measured Value | Acceptable Limits | | Recovery | Acceptable Limits | | Recovery | Acceptable Limits | |
| | | | | | | | | Lower | Upper | | Lower | Upper | | Lower | Upper |

O. Reg. 153(511) - PAHs (Soil)

| | | | | | | | | | | | | | | |
|-------------------|--------|--------|--------|----|--------|------|-----|------|------|-----|------|-----|-----|------|
| Naphthalene | 260637 | < 0.05 | < 0.05 | NA | < 0.05 | 114% | 50% | 140% | 99% | 50% | 140% | 72% | 50% | 140% |
| Acenaphthylene | 260637 | < 0.05 | < 0.05 | NA | < 0.05 | 121% | 50% | 140% | 107% | 50% | 140% | 74% | 50% | 140% |
| Acenaphthene | 260637 | < 0.05 | < 0.05 | NA | < 0.05 | 117% | 50% | 140% | 104% | 50% | 140% | 74% | 50% | 140% |
| Fluorene | 260637 | < 0.05 | < 0.05 | NA | < 0.05 | 119% | 50% | 140% | 106% | 50% | 140% | 76% | 50% | 140% |
| Phenanthrene | 260637 | < 0.05 | < 0.05 | NA | < 0.05 | 120% | 50% | 140% | 103% | 50% | 140% | 82% | 50% | 140% |
| Anthracene | 260637 | < 0.05 | < 0.05 | NA | < 0.05 | 117% | 50% | 140% | 109% | 50% | 140% | 89% | 50% | 140% |
| Fluoranthene | 260637 | < 0.05 | < 0.05 | NA | < 0.05 | 111% | 50% | 140% | 95% | 50% | 140% | 84% | 50% | 140% |
| Pyrene | 260637 | < 0.05 | < 0.05 | NA | < 0.05 | 105% | 50% | 140% | 90% | 50% | 140% | 81% | 50% | 140% |
| Benz(a)anthracene | 260637 | < 0.05 | < 0.05 | NA | < 0.05 | 85% | 50% | 140% | 66% | 50% | 140% | 70% | 50% | 140% |
| Chrysene | 260637 | < 0.05 | < 0.05 | NA | < 0.05 | 96% | 50% | 140% | 78% | 50% | 140% | 78% | 50% | 140% |

| | | | | | | | | | | | | | | |
|------------------------|--------|--------|--------|----|--------|------|-----|------|-----|-----|------|-----|-----|------|
| Benzo(b)fluoranthene | 260637 | < 0.05 | < 0.05 | NA | < 0.05 | 99% | 50% | 140% | 62% | 50% | 140% | 62% | 50% | 140% |
| Benzo(k)fluoranthene | 260637 | < 0.05 | < 0.05 | NA | < 0.05 | 120% | 50% | 140% | 88% | 50% | 140% | 82% | 50% | 140% |
| Benzo(a)pyrene | 260637 | < 0.05 | < 0.05 | NA | < 0.05 | 113% | 50% | 140% | 76% | 50% | 140% | 72% | 50% | 140% |
| Indeno(1,2,3-cd)pyrene | 260637 | < 0.05 | < 0.05 | NA | < 0.05 | 110% | 50% | 140% | 71% | 50% | 140% | 63% | 50% | 140% |
| Dibenz(a,h)anthracene | 260637 | < 0.05 | < 0.05 | NA | < 0.05 | 114% | 50% | 140% | 80% | 50% | 140% | 67% | 50% | 140% |
| Benzo(g,h,i)perylene | 260637 | < 0.05 | < 0.05 | NA | < 0.05 | 117% | 50% | 140% | 72% | 50% | 140% | 66% | 50% | 140% |

Phenoxy Acid Herbicides (Soil)

| | | | | | | | | | | | | | | |
|-------------------|--------|--------|--------|----|--------|------|-----|------|-----|-----|------|------|-----|------|
| 2,4-D | 268398 | < 0.10 | < 0.10 | NA | < 0.10 | 100% | 50% | 130% | 98% | 50% | 130% | 100% | 50% | 130% |
| 2,4,5-T | 268398 | < 0.10 | < 0.10 | NA | < 0.10 | 90% | 50% | 130% | 90% | 50% | 130% | 92% | 50% | 130% |
| 2,4,5-TP (Silvex) | 268398 | < 0.10 | < 0.10 | NA | < 0.10 | 92% | 50% | 130% | 85% | 50% | 130% | 70% | 50% | 130% |
| Dicamba | 268398 | < 0.10 | < 0.10 | NA | < 0.10 | 97% | 50% | 130% | 86% | 50% | 130% | 76% | 50% | 130% |
| Dichlorprop | 268398 | < 0.10 | < 0.10 | NA | < 0.10 | 102% | 50% | 130% | 90% | 50% | 130% | 80% | 50% | 130% |

| | | | | | | | | | | | | | | |
|---------------------------|--------|--------|--------|----|--------|------|-----|------|------|-----|------|-----|-----|------|
| Dinoseb | 268398 | < 0.10 | < 0.10 | NA | < 0.10 | 75% | 50% | 130% | 65% | 50% | 130% | 63% | 50% | 130% |
| Picloram | 268398 | < 0.10 | < 0.10 | NA | < 0.10 | 103% | 50% | 130% | 80% | 50% | 130% | 64% | 50% | 130% |
| Diclofop-methyl | 268398 | < 0.10 | < 0.10 | NA | < 0.10 | 105% | 50% | 130% | 101% | 50% | 130% | 95% | 50% | 130% |
| 2,3,4,6-Tetrachlorophenol | 268398 | < 0.05 | < 0.05 | NA | < 0.05 | 117% | 50% | 130% | 101% | 50% | 130% | 97% | 50% | 130% |
| 2,4-Dichlorophenol | 268398 | < 0.05 | < 0.05 | NA | < 0.05 | 99% | 50% | 130% | 90% | 50% | 130% | 74% | 50% | 130% |

| | | | | | | | | | | | | | | |
|-----------------------|--------|--------|--------|----|--------|------|-----|------|------|-----|------|-----|-----|------|
| 2,4,5-Trichlorophenol | 268398 | < 0.05 | < 0.05 | NA | < 0.05 | 90% | 50% | 130% | 85% | 50% | 130% | 70% | 50% | 130% |
| 2,4,6-Trichlorophenol | 268398 | < 0.05 | < 0.05 | NA | < 0.05 | 111% | 50% | 130% | 101% | 50% | 130% | 97% | 50% | 130% |
| Bromoxynil | 268398 | < 0.5 | < 0.5 | NA | < 0.5 | 98% | 60% | 130% | 95% | 60% | 130% | 94% | 60% | 130% |
| MCPP (Mecoprop) | 268398 | < 1.0 | < 1.0 | NA | < 1.0 | NA | 50% | 130% | 100% | 50% | 130% | 80% | 50% | 130% |
| MCPA | 268398 | < 1.0 | < 1.0 | NA | < 1.0 | NA | 50% | 130% | 98% | 50% | 130% | 90% | 50% | 130% |
| Pentachlorophenol | 268398 | < 0.05 | < 0.05 | NA | < 0.05 | 94% | 50% | 130% | 90% | 50% | 130% | 80% | 50% | 130% |

O. Reg. 153(511) - VOCs (MEOH)

| | | | | | | | | | | | | | | |
|-------------------------|--------|--------|--------|----|--------|------|-----|------|------|-----|------|------|-----|------|
| Dichlorodifluoromethane | 270262 | < 0.05 | < 0.05 | NA | < 0.05 | 108% | 50% | 140% | 92% | 50% | 140% | 83% | 50% | 140% |
| Vinyl Chloride | 270262 | < 0.02 | < 0.02 | NA | < 0.02 | 90% | 50% | 140% | 91% | 50% | 140% | 106% | 50% | 140% |
| Bromomethane | 270262 | < 0.05 | < 0.05 | NA | < 0.05 | 96% | 50% | 140% | 104% | 50% | 140% | 116% | 50% | 140% |
| Trichlorofluoromethane | 270262 | < 0.05 | < 0.05 | NA | < 0.05 | 94% | 50% | 140% | 97% | 50% | 140% | 97% | 50% | 140% |

Quality Assurance

CLIENT NAME: SNC LAVALIN INC
PROJECT: City of Brampton - Phase II
SAMPLING SITE:

AGAT WORK ORDER: 19T477958
ATTENTION TO: Robert Mitzakov
SAMPLED BY:

Trace Organics Analysis (Continued)

| RPT Date: Jun 20, 2019 | | | DUPLICATE | | | Method Blank | REFERENCE MATERIAL | | | METHOD BLANK SPIKE | | | MATRIX SPIKE | | |
|--------------------------------|--------|-----------|-----------|--------|-----|--------------|--------------------|-------------------|-------|--------------------|-------------------|-------|--------------|-------------------|-------|
| PARAMETER | Batch | Sample Id | Dup #1 | Dup #2 | RPD | | Measured Value | Acceptable Limits | | Recovery | Acceptable Limits | | Recovery | Acceptable Limits | |
| | | | | | | | | Lower | Upper | | Lower | Upper | | Lower | Upper |
| Acetone | 270262 | | < 0.50 | < 0.50 | NA | < 0.50 | 87% | 50% | 140% | 96% | 50% | 140% | 91% | 50% | 140% |
| 1,1-Dichloroethylene | 270262 | | < 0.05 | < 0.05 | NA | < 0.05 | 102% | 50% | 140% | 97% | 60% | 130% | 83% | 50% | 140% |
| Methylene Chloride | 270262 | | < 0.05 | < 0.05 | NA | < 0.05 | 99% | 50% | 140% | 97% | 60% | 130% | 89% | 50% | 140% |
| Trans- 1,2-Dichloroethylene | 270262 | | < 0.05 | < 0.05 | NA | < 0.05 | 98% | 50% | 140% | 102% | 60% | 130% | 88% | 50% | 140% |
| Methyl tert-butyl Ether | 270262 | | < 0.05 | < 0.05 | NA | < 0.05 | 78% | 50% | 140% | 82% | 60% | 130% | 112% | 50% | 140% |
| 1,1-Dichloroethane | 270262 | | < 0.02 | < 0.02 | NA | < 0.02 | 97% | 50% | 140% | 95% | 60% | 130% | 83% | 50% | 140% |
| Methyl Ethyl Ketone | 270262 | | < 0.50 | < 0.50 | NA | < 0.50 | 89% | 50% | 140% | 105% | 50% | 140% | 95% | 50% | 140% |
| Cis- 1,2-Dichloroethylene | 270262 | | < 0.02 | < 0.02 | NA | < 0.02 | 98% | 50% | 140% | 97% | 60% | 130% | 105% | 50% | 140% |
| Chloroform | 270262 | | < 0.04 | < 0.04 | NA | < 0.04 | 99% | 50% | 140% | 99% | 60% | 130% | 89% | 50% | 140% |
| 1,2-Dichloroethane | 270262 | | < 0.03 | < 0.03 | NA | < 0.03 | 95% | 50% | 140% | 101% | 60% | 130% | 88% | 50% | 140% |
| 1,1,1-Trichloroethane | 270262 | | < 0.05 | < 0.05 | NA | < 0.05 | 105% | 50% | 140% | 81% | 60% | 130% | 100% | 50% | 140% |
| Carbon Tetrachloride | 270262 | | < 0.05 | < 0.05 | NA | < 0.05 | 84% | 50% | 140% | 91% | 60% | 130% | 93% | 50% | 140% |
| Benzene | 270262 | | < 0.02 | < 0.02 | NA | < 0.02 | 100% | 50% | 140% | 105% | 60% | 130% | 93% | 50% | 140% |
| 1,2-Dichloropropane | 270262 | | < 0.03 | < 0.03 | NA | < 0.03 | 89% | 50% | 140% | 97% | 60% | 130% | 80% | 50% | 140% |
| Trichloroethylene | 270262 | | < 0.03 | < 0.03 | NA | < 0.03 | 92% | 50% | 140% | 98% | 60% | 130% | 86% | 50% | 140% |
| Bromodichloromethane | 270262 | | < 0.05 | < 0.05 | NA | < 0.05 | 76% | 50% | 140% | 83% | 60% | 130% | 93% | 50% | 140% |
| Methyl Isobutyl Ketone | 270262 | | < 0.50 | < 0.50 | NA | < 0.50 | 79% | 50% | 140% | 102% | 50% | 140% | 91% | 50% | 140% |
| 1,1,2-Trichloroethane | 270262 | | < 0.04 | < 0.04 | NA | < 0.04 | 108% | 50% | 140% | 98% | 60% | 130% | 96% | 50% | 140% |
| Toluene | 270262 | | < 0.05 | < 0.05 | NA | < 0.05 | 114% | 50% | 140% | 96% | 60% | 130% | 102% | 50% | 140% |
| Dibromochloromethane | 270262 | | < 0.05 | < 0.05 | NA | < 0.05 | 112% | 50% | 140% | 84% | 60% | 130% | 92% | 50% | 140% |
| Ethylene Dibromide | 270262 | | < 0.04 | < 0.04 | NA | < 0.04 | 93% | 50% | 140% | 96% | 60% | 130% | 82% | 50% | 140% |
| Tetrachloroethylene | 270262 | | < 0.05 | < 0.05 | NA | < 0.05 | 105% | 50% | 140% | 106% | 60% | 130% | 95% | 50% | 140% |
| 1,1,1,2-Tetrachloroethane | 270262 | | < 0.04 | < 0.04 | NA | < 0.04 | 75% | 50% | 140% | 82% | 60% | 130% | 93% | 50% | 140% |
| Chlorobenzene | 270262 | | < 0.05 | < 0.05 | NA | < 0.05 | 112% | 50% | 140% | 100% | 60% | 130% | 105% | 50% | 140% |
| Ethylbenzene | 270262 | | < 0.05 | < 0.05 | NA | < 0.05 | 112% | 50% | 140% | 97% | 60% | 130% | 105% | 50% | 140% |
| m & p-Xylene | 270262 | | < 0.05 | < 0.05 | NA | < 0.05 | 115% | 50% | 140% | 73% | 60% | 130% | 109% | 50% | 140% |
| Bromoform | 270262 | | < 0.05 | < 0.05 | NA | < 0.05 | 86% | 50% | 140% | 112% | 60% | 130% | 112% | 50% | 140% |
| Styrene | 270262 | | < 0.05 | < 0.05 | NA | < 0.05 | 82% | 50% | 140% | 102% | 60% | 130% | 106% | 50% | 140% |
| 1,1,2,2-Tetrachloroethane | 270262 | | < 0.05 | < 0.05 | NA | < 0.05 | 112% | 50% | 140% | 102% | 60% | 130% | 96% | 50% | 140% |
| o-Xylene | 270262 | | < 0.05 | < 0.05 | NA | < 0.05 | 119% | 50% | 140% | 113% | 60% | 130% | 114% | 50% | 140% |
| 1,3-Dichlorobenzene | 270262 | | < 0.05 | < 0.05 | NA | < 0.05 | 100% | 50% | 140% | 108% | 60% | 130% | 98% | 50% | 140% |
| 1,4-Dichlorobenzene | 270262 | | < 0.05 | < 0.05 | NA | < 0.05 | 91% | 50% | 140% | 109% | 60% | 130% | 95% | 50% | 140% |
| 1,2-Dichlorobenzene | 270262 | | < 0.05 | < 0.05 | NA | < 0.05 | 95% | 50% | 140% | 102% | 60% | 130% | 93% | 50% | 140% |
| 1,3-Dichloropropene | 270262 | | < 0.04 | < 0.04 | NA | < 0.04 | 101% | 50% | 140% | 83% | 60% | 130% | 103% | 50% | 140% |
| n-Hexane | 270262 | | < 0.05 | < 0.05 | NA | < 0.05 | 102% | 50% | 140% | 86% | 60% | 130% | 102% | 50% | 140% |
| O. Reg. 153(511) - VOCs (Soil) | | | | | | | | | | | | | | | |
| Dichlorodifluoromethane | 265226 | | < 0.05 | < 0.05 | NA | < 0.05 | 97% | 50% | 140% | 86% | 50% | 140% | 82% | 50% | 140% |
| Vinyl Chloride | 265226 | | < 0.02 | < 0.02 | NA | < 0.02 | 80% | 50% | 140% | 95% | 50% | 140% | 90% | 50% | 140% |
| Bromomethane | 265226 | | < 0.05 | < 0.05 | NA | < 0.05 | 114% | 50% | 140% | 116% | 50% | 140% | 112% | 50% | 140% |

Quality Assurance

 CLIENT NAME: SNC LAVALIN INC
 PROJECT: City of Brampton - Phase II
 SAMPLING SITE:

 AGAT WORK ORDER: 19T477958
 ATTENTION TO: Robert Mitzakov
 SAMPLED BY:

Trace Organics Analysis (Continued)

| RPT Date: Jun 20, 2019 | | | DUPLICATE | | | Method Blank | REFERENCE MATERIAL | | | METHOD BLANK SPIKE | | | MATRIX SPIKE | | |
|--|--------|-----------|-----------|--------|-----|--------------|--------------------|-------------------|-------|--------------------|-------------------|-------|--------------|-------------------|-------|
| PARAMETER | Batch | Sample Id | Dup #1 | Dup #2 | RPD | | Measured Value | Acceptable Limits | | Recovery | Acceptable Limits | | Recovery | Acceptable Limits | |
| | | | | | | | | Lower | Upper | | Lower | Upper | | Lower | Upper |
| Trichlorofluoromethane | 265226 | | < 0.05 | < 0.05 | NA | < 0.05 | 90% | 50% | 140% | 82% | 50% | 140% | 80% | 50% | 140% |
| Acetone | 265226 | | < 0.50 | < 0.50 | NA | < 0.50 | 116% | 50% | 140% | 103% | 50% | 140% | 103% | 50% | 140% |
| 1,1-Dichloroethylene | 265226 | | < 0.05 | < 0.05 | NA | < 0.05 | 104% | 50% | 140% | 101% | 60% | 130% | 95% | 50% | 140% |
| Methylene Chloride | 265226 | | < 0.05 | < 0.05 | NA | < 0.05 | 115% | 50% | 140% | 117% | 60% | 130% | 113% | 50% | 140% |
| Trans- 1,2-Dichloroethylene | 265226 | | < 0.05 | < 0.05 | NA | < 0.05 | 101% | 50% | 140% | 98% | 60% | 130% | 96% | 50% | 140% |
| Methyl tert-butyl Ether | 265226 | | < 0.05 | < 0.05 | NA | < 0.05 | 94% | 50% | 140% | 90% | 60% | 130% | 96% | 50% | 140% |
| 1,1-Dichloroethane | 265226 | | < 0.02 | < 0.02 | NA | < 0.02 | 104% | 50% | 140% | 115% | 60% | 130% | 102% | 50% | 140% |
| Methyl Ethyl Ketone | 265226 | | < 0.50 | < 0.50 | NA | < 0.50 | 90% | 50% | 140% | 88% | 50% | 140% | 87% | 50% | 140% |
| Cis- 1,2-Dichloroethylene | 265226 | | < 0.02 | < 0.02 | NA | < 0.02 | 96% | 50% | 140% | 85% | 60% | 130% | 94% | 50% | 140% |
| Chloroform | 265226 | | < 0.04 | < 0.04 | NA | < 0.04 | 103% | 50% | 140% | 90% | 60% | 130% | 96% | 50% | 140% |
| 1,2-Dichloroethane | 265226 | | < 0.03 | < 0.03 | NA | < 0.03 | 90% | 50% | 140% | 85% | 60% | 130% | 92% | 50% | 140% |
| 1,1,1-Trichloroethane | 265226 | | < 0.05 | < 0.05 | NA | < 0.05 | 101% | 50% | 140% | 99% | 60% | 130% | 82% | 50% | 140% |
| Carbon Tetrachloride | 265226 | | < 0.05 | < 0.05 | NA | < 0.05 | 91% | 50% | 140% | 82% | 60% | 130% | 80% | 50% | 140% |
| Benzene | 265226 | | < 0.02 | < 0.02 | NA | < 0.02 | 90% | 50% | 140% | 90% | 60% | 130% | 95% | 50% | 140% |
| 1,2-Dichloropropane | 265226 | | < 0.03 | < 0.03 | NA | < 0.03 | 91% | 50% | 140% | 91% | 60% | 130% | 91% | 50% | 140% |
| Trichloroethylene | 265226 | | < 0.03 | < 0.03 | NA | < 0.03 | 98% | 50% | 140% | 87% | 60% | 130% | 88% | 50% | 140% |
| Bromodichloromethane | 265226 | | < 0.05 | < 0.05 | NA | < 0.05 | 94% | 50% | 140% | 100% | 60% | 130% | 89% | 50% | 140% |
| Methyl Isobutyl Ketone | 265226 | | < 0.50 | < 0.50 | NA | < 0.50 | 88% | 50% | 140% | 81% | 50% | 140% | 81% | 50% | 140% |
| 1,1,2-Trichloroethane | 265226 | | < 0.04 | < 0.04 | NA | < 0.04 | 105% | 50% | 140% | 103% | 60% | 130% | 111% | 50% | 140% |
| Toluene | 265226 | | < 0.05 | < 0.05 | NA | < 0.05 | 116% | 50% | 140% | 108% | 60% | 130% | 111% | 50% | 140% |
| Dibromochloromethane | 265226 | | < 0.05 | < 0.05 | NA | < 0.05 | 100% | 50% | 140% | 111% | 60% | 130% | 92% | 50% | 140% |
| Ethylene Dibromide | 265226 | | < 0.04 | < 0.04 | NA | < 0.04 | 97% | 50% | 140% | 99% | 60% | 130% | 102% | 50% | 140% |
| Tetrachloroethylene | 265226 | | < 0.05 | < 0.05 | NA | < 0.05 | 99% | 50% | 140% | 90% | 60% | 130% | 94% | 50% | 140% |
| 1,1,1,2-Tetrachloroethane | 265226 | | < 0.04 | < 0.04 | NA | < 0.04 | 102% | 50% | 140% | 102% | 60% | 130% | 94% | 50% | 140% |
| Chlorobenzene | 265226 | | < 0.05 | < 0.05 | NA | < 0.05 | 110% | 50% | 140% | 102% | 60% | 130% | 110% | 50% | 140% |
| Ethylbenzene | 265226 | | < 0.05 | < 0.05 | NA | < 0.05 | 104% | 50% | 140% | 96% | 60% | 130% | 102% | 50% | 140% |
| m & p-Xylene | 265226 | | < 0.05 | < 0.05 | NA | < 0.05 | 112% | 50% | 140% | 101% | 60% | 130% | 109% | 50% | 140% |
| Bromoform | 265226 | | < 0.05 | < 0.05 | NA | < 0.05 | 105% | 50% | 140% | 113% | 60% | 130% | 92% | 50% | 140% |
| Styrene | 265226 | | < 0.05 | < 0.05 | NA | < 0.05 | 76% | 50% | 140% | 98% | 60% | 130% | 108% | 50% | 140% |
| 1,1,2,2-Tetrachloroethane | 265226 | | < 0.05 | < 0.05 | NA | < 0.05 | 97% | 50% | 140% | 95% | 60% | 130% | 107% | 50% | 140% |
| o-Xylene | 265226 | | < 0.05 | < 0.05 | NA | < 0.05 | 110% | 50% | 140% | 102% | 60% | 130% | 109% | 50% | 140% |
| 1,3-Dichlorobenzene | 265226 | | < 0.05 | < 0.05 | NA | < 0.05 | 93% | 50% | 140% | 93% | 60% | 130% | 104% | 50% | 140% |
| 1,4-Dichlorobenzene | 265226 | | < 0.05 | < 0.05 | NA | < 0.05 | 92% | 50% | 140% | 87% | 60% | 130% | 99% | 50% | 140% |
| 1,2-Dichlorobenzene | 265226 | | < 0.05 | < 0.05 | NA | < 0.05 | 94% | 50% | 140% | 87% | 60% | 130% | 96% | 50% | 140% |
| 1,3-Dichloropropene | 265226 | | < 0.04 | < 0.04 | NA | < 0.04 | 86% | 50% | 140% | 81% | 60% | 130% | 107% | 50% | 140% |
| n-Hexane | 265226 | | < 0.05 | < 0.05 | NA | < 0.05 | 98% | 50% | 140% | 92% | 60% | 130% | 91% | 50% | 140% |
| O. Reg. 153(511) - PHCs F1 - F4 (-BTEX) (Soil) | | | | | | | | | | | | | | | |
| F1 (C6 to C10) | 262573 | | < 5 | < 5 | NA | < 5 | 109% | 60% | 130% | 110% | 85% | 115% | 94% | 70% | 130% |
| F2 (C10 to C16) | 267785 | | < 10 | < 10 | NA | < 10 | 105% | 60% | 130% | 101% | 80% | 120% | 82% | 70% | 130% |

Quality Assurance

 CLIENT NAME: SNC LAVALIN INC
 PROJECT: City of Brampton - Phase II
 SAMPLING SITE:

 AGAT WORK ORDER: 19T477958
 ATTENTION TO: Robert Mitzakov
 SAMPLED BY:

Trace Organics Analysis (Continued)

| RPT Date: Jun 20, 2019 | | | DUPLICATE | | | | Method Blank | REFERENCE MATERIAL | | | METHOD BLANK SPIKE | | | MATRIX SPIKE | | |
|------------------------|--------|-----------|-----------|---------|-----|----------------|--------------|--------------------|-------|----------|--------------------|-------|----------|-------------------|-------|--|
| PARAMETER | Batch | Sample Id | Dup #1 | Dup #2 | RPD | Measured Value | | Acceptable Limits | | Recovery | Acceptable Limits | | Recovery | Acceptable Limits | | |
| | | | | | | | | Lower | Upper | | Lower | Upper | | Lower | Upper | |
| F3 (C16 to C34) | 267785 | | < 50 | < 50 | NA | < 50 | 103% | 60% | 130% | 105% | 80% | 120% | 86% | 70% | 130% | |
| F4 (C34 to C50) | 267785 | | < 50 | < 50 | NA | < 50 | 70% | 60% | 130% | 104% | 80% | 120% | 96% | 70% | 130% | |
| OC Pesticides (Soil) | | | | | | | | | | | | | | | | |
| Aldrin | 268265 | | < 0.005 | < 0.005 | NA | < 0.005 | 87% | 60% | 140% | 94% | 60% | 140% | 87% | 60% | 140% | |
| alpha - BHC | 268265 | | < 0.005 | < 0.005 | NA | < 0.005 | 89% | 60% | 140% | 92% | 60% | 140% | 86% | 60% | 140% | |
| gamma-BHC (Lindane) | 268265 | | < 0.005 | < 0.005 | NA | < 0.005 | 86% | 60% | 140% | 93% | 60% | 140% | 86% | 60% | 140% | |
| Alpha-Chlordane | 268265 | | < 0.005 | < 0.005 | NA | < 0.005 | 91% | 60% | 140% | 89% | 60% | 140% | 89% | 60% | 140% | |
| Gamma-Chlordane | 268265 | | < 0.005 | < 0.005 | NA | < 0.005 | 92% | 60% | 140% | 89% | 60% | 140% | 91% | 60% | 140% | |
| Chlordane (Total) | 268265 | | < 0.007 | < 0.007 | NA | < 0.007 | 92% | 60% | 140% | 89% | 60% | 140% | 90% | 60% | 140% | |
| DDD (o,p') | 268265 | | < 0.005 | < 0.005 | NA | < 0.005 | 97% | 60% | 140% | 82% | 60% | 140% | 81% | 60% | 140% | |
| pp'-DDD | 268265 | | < 0.005 | < 0.005 | NA | < 0.005 | 97% | 60% | 140% | 86% | 60% | 140% | 84% | 60% | 140% | |
| DDD (o,p' + p,p') | 268265 | | < 0.007 | < 0.007 | NA | < 0.007 | 97% | 60% | 140% | 84% | 60% | 140% | 83% | 60% | 140% | |
| op'-DDE | 268265 | | < 0.005 | < 0.005 | NA | < 0.005 | 96% | 60% | 140% | 85% | 60% | 140% | 82% | 60% | 140% | |
| pp'-DDE | 268265 | | < 0.005 | < 0.005 | NA | < 0.005 | 98% | 60% | 140% | 86% | 60% | 140% | 83% | 60% | 140% | |
| DDE (Total) | 268265 | | < 0.007 | < 0.007 | NA | < 0.007 | 97% | 60% | 140% | 86% | 60% | 140% | 83% | 60% | 140% | |
| op'-DDT | 268265 | | < 0.005 | < 0.005 | NA | < 0.005 | 91% | 60% | 140% | 85% | 60% | 140% | 83% | 60% | 140% | |
| pp'- DDT | 268265 | | < 0.005 | < 0.005 | NA | < 0.005 | 92% | 60% | 140% | 86% | 60% | 140% | 83% | 60% | 140% | |
| DDT (Total) | 268265 | | < 0.007 | < 0.007 | NA | < 0.007 | 90% | 60% | 140% | 86% | 60% | 140% | 83% | 60% | 140% | |
| Endosulfan (I & II) | 268265 | | < 0.007 | < 0.007 | NA | < 0.007 | 96% | 60% | 140% | 89% | 60% | 140% | 85% | 60% | 140% | |
| Dieldrin | 268265 | | < 0.005 | < 0.005 | NA | < 0.005 | 91% | 60% | 140% | 88% | 60% | 140% | 84% | 60% | 140% | |
| Endrin | 268265 | | < 0.005 | < 0.005 | NA | < 0.005 | 88% | 60% | 140% | 93% | 60% | 140% | 90% | 60% | 140% | |
| Heptachlor | 268265 | | < 0.005 | < 0.005 | NA | < 0.005 | 82% | 60% | 140% | 95% | 60% | 140% | 80% | 60% | 140% | |
| Heptachlor Epoxide | 268265 | | < 0.005 | < 0.005 | NA | < 0.005 | 90% | 60% | 140% | 94% | 60% | 140% | 89% | 60% | 140% | |
| Methoxychlor | 268265 | | < 0.005 | < 0.005 | NA | < 0.005 | 93% | 60% | 140% | 103% | 60% | 140% | 91% | 60% | 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).

Certified By:



Method Summary

 CLIENT NAME: SNC LAVALIN INC
 PROJECT: City of Brampton - Phase II
 SAMPLING SITE:

 AGAT WORK ORDER: 19T477958
 ATTENTION TO: Robert Mitzakov
 SAMPLED BY:

| PARAMETER | AGAT S.O.P | LITERATURE REFERENCE | ANALYTICAL TECHNIQUE |
|--------------------------------------|--------------|---|-------------------------|
| Soil Analysis | | | |
| Antimony | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Arsenic | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Barium | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Beryllium | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Boron | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Boron (Hot Water Soluble) | MET-93-6104 | EPA SW 846 6010C; MSA, Part 3, Ch.21 | ICP/OES |
| Cadmium | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Chromium | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Cobalt | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Copper | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Lead | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Molybdenum | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Nickel | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Selenium | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Silver | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Thallium | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Uranium | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Vanadium | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Zinc | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Chromium VI | INOR-93-6029 | SM 3500 B; MSA Part 3, Ch. 25 | SPECTROPHOTOMETER |
| Cyanide | INOR-93-6052 | MOE CN-3015 & E 3009 A; SM 4500 CN | TECHNICON AUTO ANALYZER |
| Mercury | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Electrical Conductivity | INOR-93-6036 | McKeague 4.12, SM 2510 B | EC METER |
| Sodium Adsorption Ratio | INOR-93-6007 | McKeague 4.12 & 3.26 & EPA SW-846 6010C | ICP/OES |
| pH, 2:1 CaCl ₂ Extraction | INOR-93-6031 | MSA part 3 & SM 4500-H+ B | PH METER |

Method Summary

 CLIENT NAME: SNC LAVALIN INC
 PROJECT: City of Brampton - Phase II
 SAMPLING SITE:

 AGAT WORK ORDER: 19T477958
 ATTENTION TO: Robert Mitzakov
 SAMPLED BY:

| PARAMETER | AGAT S.O.P | LITERATURE REFERENCE | ANALYTICAL TECHNIQUE |
|--------------------------------|-------------|--------------------------------|----------------------|
| Trace Organics Analysis | | | |
| Naphthalene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Acenaphthylene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Acenaphthene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Fluorene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Phenanthrene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Anthracene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Fluoranthene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Pyrene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Benz(a)anthracene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Chrysene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Benzo(b)fluoranthene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Benzo(k)fluoranthene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Benzo(a)pyrene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Indeno(1,2,3-cd)pyrene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Dibenz(a,h)anthracene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Benzo(g,h,i)perylene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| 2-and 1-methyl Naphthalene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Moisture Content | ORG-91-5106 | EPA SW-846 3541 & 8270D | BALANCE |
| Chrysene-d12 | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| F1 (C6 to C10) | VOL-91-5009 | CCME Tier 1 Method, SW846 5035 | P&T GC/FID |
| F1 (C6 to C10) minus BTEX | VOL-91-5009 | CCME Tier 1 Method, SW846 5035 | P&T GC/FID |
| F2 (C10 to C16) | VOL-91-5009 | CCME Tier 1 Method | GC/FID |
| F3 (C16 to C34) | VOL-91-5009 | CCME Tier 1 Method | GC/FID |
| F4 (C34 to C50) | VOL-91-5009 | CCME Tier 1 Method | GC/FID |
| Gravimetric Heavy Hydrocarbons | VOL-91-5009 | CCME Tier 1 Method | BALANCE |
| Moisture Content | VOL-91-5009 | CCME Tier 1 Method | BALANCE |
| Terphenyl | VOL-91-5009 | CCME Tier 1 Method | GC/FID |
| Dichlorodifluoromethane | VOL-91-5002 | EPA SW-846 5035 & 8260 | (P&T)GC/MS |
| Vinyl Chloride | VOL-91-5002 | EPA SW-846 5035 & 8260 | (P&T)GC/MS |
| Bromomethane | VOL-91-5002 | EPA SW-846 5035 & 8260 | (P&T)GC/MS |
| Trichlorofluoromethane | VOL-91-5002 | EPA SW-846 5035 & 8260 | (P&T)GC/MS |
| Acetone | VOL-91-5002 | EPA SW-846 5035 & 8260 | (P&T)GC/MS |
| 1,1-Dichloroethylene | VOL-91-5002 | EPA SW-846 5035 & 8260 | (P&T)GC/MS |
| Methylene Chloride | VOL-91-5002 | EPA SW-846 5035 & 8260 | (P&T)GC/MS |
| Trans- 1,2-Dichloroethylene | VOL-91-5002 | EPA SW-846 5035 & 8260 | (P&T)GC/MS |
| Methyl tert-butyl Ether | VOL-91-5002 | EPA SW-846 5035 & 8260 | (P&T)GC/MS |
| 1,1-Dichloroethane | VOL-91-5002 | EPA SW-846 5035 & 8260 | (P&T)GC/MS |
| Methyl Ethyl Ketone | VOL-91-5002 | EPA SW-846 5035 & 8260 | (P&T)GC/MS |
| Cis- 1,2-Dichloroethylene | VOL-91-5002 | EPA SW-846 5035 & 8260 | (P&T)GC/MS |
| Chloroform | VOL-91-5002 | EPA SW-846 5035 & 8260 | (P&T)GC/MS |
| 1,2-Dichloroethane | VOL-91-5002 | EPA SW-846 5035 & 8260 | (P&T)GC/MS |
| 1,1,1-Trichloroethane | VOL-91-5002 | EPA SW-846 5035 & 8260 | (P&T)GC/MS |
| Carbon Tetrachloride | VOL-91-5002 | EPA SW-846 5035 & 8260 | (P&T)GC/MS |
| Benzene | VOL-91-5002 | EPA SW-846 5035 & 8260 | (P&T)GC/MS |
| 1,2-Dichloropropane | VOL-91-5002 | EPA SW-846 5035 & 8260 | (P&T)GC/MS |
| Trichloroethylene | VOL-91-5002 | EPA SW-846 5035 & 8260 | (P&T)GC/MS |
| Bromodichloromethane | VOL-91-5002 | EPA SW-846 5035 & 8260 | (P&T)GC/MS |
| Methyl Isobutyl Ketone | VOL-91-5002 | EPA SW-846 5035 & 8260 | (P&T)GC/MS |
| 1,1,2-Trichloroethane | VOL-91-5002 | EPA SW-846 5035 & 8260 | (P&T)GC/MS |

Method Summary

CLIENT NAME: SNC LAVALIN INC

AGAT WORK ORDER: 19T477958

PROJECT: City of Brampton - Phase II

ATTENTION TO: Robert Mitzakov

SAMPLING SITE:

SAMPLED BY:

| PARAMETER | AGAT S.O.P | LITERATURE REFERENCE | ANALYTICAL TECHNIQUE |
|-----------------------------|-------------|-------------------------|----------------------|
| Toluene | VOL-91-5002 | EPA SW-846 5035 & 8260 | (P&T)GC/MS |
| Dibromochloromethane | VOL-91-5002 | EPA SW-846 5035 & 8260 | (P&T)GC/MS |
| Ethylene Dibromide | VOL-91-5002 | EPA SW-846 5035 & 8260 | (P&T)GC/MS |
| Tetrachloroethylene | VOL-91-5002 | EPA SW-846 5035 & 8260 | (P&T)GC/MS |
| 1,1,1,2-Tetrachloroethane | VOL-91-5002 | EPA SW-846 5035 & 8260 | (P&T)GC/MS |
| Chlorobenzene | VOL-91-5002 | EPA SW-846 5035 & 8260 | (P&T)GC/MS |
| Ethylbenzene | VOL-91-5002 | EPA SW-846 5035 & 8260 | (P&T)GC/MS |
| m & p-Xylene | VOL-91-5002 | EPA SW-846 5035 & 8260 | (P&T)GC/MS |
| Bromoform | VOL-91-5002 | EPA SW-846 5035 & 8260 | (P&T)GC/MS |
| Styrene | VOL-91-5002 | EPA SW-846 5035 & 8260 | (P&T)GC/MS |
| 1,1,2,2-Tetrachloroethane | VOL-91-5002 | EPA SW-846 5035 & 8260 | (P&T)GC/MS |
| o-Xylene | VOL-91-5002 | EPA SW-846 5035 & 8260 | (P&T)GC/MS |
| 1,3-Dichlorobenzene | VOL-91-5002 | EPA SW-846 5035 & 8260 | (P&T)GC/MS |
| 1,4-Dichlorobenzene | VOL-91-5002 | EPA SW-846 5035 & 8260 | (P&T)GC/MS |
| 1,2-Dichlorobenzene | VOL-91-5002 | EPA SW-846 5035 & 8260 | (P&T)GC/MS |
| Xylene Mixture | VOL-91-5002 | EPA SW-846 5035 & 8260 | (P&T)GC/MS |
| 1,3-Dichloropropene | VOL-91-5002 | EPA SW-846 5035 & 8260 | (P&T)GC/MS |
| n-Hexane | VOL-91-5002 | EPA SW-846 5035 & 8260 | (P&T)GC/MS |
| Toluene-d8 | VOL-91-5002 | EPA SW-846 5035 & 8260 | (P&T)GC/MS |
| 4-Bromofluorobenzene | VOL-91-5002 | EPA SW-846 5035 & 8260 | (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 | EPA SW-846 5035 & 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 |

Method Summary

CLIENT NAME: SNC LAVALIN INC
 PROJECT: City of Brampton - Phase II
 SAMPLING SITE:

AGAT WORK ORDER: 19T477958
 ATTENTION TO: Robert Mitzakov
 SAMPLED BY:

| PARAMETER | AGAT S.O.P | LITERATURE REFERENCE | ANALYTICAL TECHNIQUE |
|---------------------------|-------------|-------------------------|----------------------|
| 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 |
| Xylene Mixture | VOL-91-5002 | EPA SW-846 5035 & 8260D | (P&T)GC/MS |
| 1,3-Dichloropropene | 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 | EPA SW-846 5035 & 8260D | (P&T)GC/MS |
| 4-Bromofluorobenzene | VOL-91-5002 | EPA SW-846 5035 & 8260D | (P&T)GC/MS |
| Aldrin | ORG-91-5113 | EPA SW - 846 3541/8081 | GC/ECD |
| alpha - BHC | ORG-91-5113 | EPA SW - 846 3541/8081 | GC/ECD |
| gamma-BHC (Lindane) | ORG-91-5113 | EPA SW - 846 3541/8081 | GC/ECD |
| Alpha-Chlordane | ORG-91-5113 | EPA SW - 846 3541/8081 | GC/ECD |
| Gamma-Chlordane | ORG-91-5113 | EPA SW - 846 3541/8081 | GC/ECD |
| Chlordane (Total) | ORG-91-5113 | EPA SW - 846 3541/8081 | GC/ECD |
| DDD (o,p') | ORG-91-5113 | EPA SW - 846 3541/8081 | GC/ECD |
| pp'-DDD | ORG-91-5113 | EPA SW - 846 3541/8081 | GC/ECD |
| DDD (o,p' + p,p') | ORG-91-5113 | EPA SW - 846 3541/8081 | GC/ECD |
| op'-DDE | ORG-91-5113 | EPA SW - 846 3541/8081 | GC/ECD |
| pp'-DDE | ORG-91-5113 | EPA SW - 846 3541/8081 | GC/ECD |
| DDE (Total) | ORG-91-5113 | EPA SW - 846 3541/8081 | GC/ECD |
| op'-DDT | ORG-91-5113 | EPA SW - 846 3541/8081 | GC/ECD |
| pp'- DDT | ORG-91-5113 | EPA SW - 846 3541/8081 | GC/ECD |
| DDT (Total) | ORG-91-5113 | EPA SW - 846 3541/8081 | GC/ECD |
| Endosulfan (I & II) | ORG-91-5113 | EPA SW - 846 3541/8081 | GC/ECD |
| Dieldrin | ORG-91-5113 | EPA SW - 846 3541/8081 | GC/ECD |
| Endrin | ORG-91-5113 | EPA SW - 846 3541/8081 | GC/ECD |
| Heptachlor | ORG-91-5113 | EPA SW - 846 3541/8081 | GC/ECD |
| Heptachlor Epoxide | ORG-91-5113 | EPA SW - 846 3541/8081 | GC/ECD |
| Methoxychlor | ORG-91-5113 | EPA SW - 846 3541/8081 | GC/ECD |
| Moisture Content | | MOE E3139 | BALANCE |
| TCMX | ORG-91-5112 | EPA SW-846 3541 & 8081 | GC/ECD |
| Decachlorobiphenyl | ORG-91-5113 | EPA SW - 846 3541/8081 | GC/ECD |
| OC Pest Extr | ORG-91-5113 | EPA SW - 846 3541/8081 | N/A |
| 2,4-D | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| 2,4,5-T | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| 2,4,5-TP (Silvex) | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| Dicamba | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| Dichlorprop | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| Dinoseb | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| Picloram | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| Diclofop-methyl | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| 2,3,4,6-Tetrachlorophenol | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| 2,4-Dichlorophenol | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| 2,4,5-Trichlorophenol | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| 2,4,6-Trichlorophenol | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| Bromoxynil | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |



Method Summary

CLIENT NAME: SNC LAVALIN INC

AGAT WORK ORDER: 19T477958

PROJECT: City of Brampton - Phase II

ATTENTION TO: Robert Mitzakov

SAMPLING SITE:

SAMPLED BY:

| PARAMETER | AGAT S.O.P | LITERATURE REFERENCE | ANALYTICAL TECHNIQUE |
|-------------------|-------------|----------------------|----------------------|
| MCPP (Mecoprop) | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| MCPA | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| Pentachlorophenol | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| DCAA | ORG-91-5110 | EPA SW-846 8151 | GC/ECD |
| Phenoxy Extr | | | N/A |

CLIENT NAME: SNC LAVALIN INC
235 LESMILL ROAD
TORONTO, ON M3B 2V1
(416) 679-6000

ATTENTION TO: Robert Mitzakov

PROJECT: City of Brampton Phase 2

AGAT WORK ORDER: 19T478647

SOIL ANALYSIS REVIEWED BY: Amanjot Bhela, Inorganic Supervisor

TRACE ORGANICS REVIEWED BY: Pinkal Patel, Report Reviewer

DATE REPORTED: Jun 24, 2019

PAGES (INCLUDING COVER): 18

VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (905) 712-5100

*NOTES

All samples will be disposed of within 30 days following analysis. Please contact the lab if you require additional sample storage time.



Certificate of Analysis

AGAT WORK ORDER: 19T478647

PROJECT: City of Brampton Phase 2

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MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
TEL (905)712-5100
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<http://www.agatlabs.com>

CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Robert Mitzakov

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - Metals & Inorganics (Soil)

DATE RECEIVED: 2019-06-11

DATE REPORTED: 2019-06-24

| Parameter | Unit | SAMPLE DESCRIPTION: | | | | |
|---------------------------|----------|---------------------|--------|------------|------------|------------|
| | | SAMPLE TYPE: | | BH30-01 | BH51-02 | BH70-01 |
| | | DATE SAMPLED: | | 2019-06-11 | 2019-06-11 | 2019-06-11 |
| | G / S | RDL | 268398 | 268851 | 268853 | |
| Antimony | µg/g | 1.3 | 0.8 | <0.8 | <0.8 | <0.8 |
| Arsenic | µg/g | 18 | 1 | 4 | 4 | 4 |
| Barium | µg/g | 220 | 2 | 93 | 125 | 176 |
| Beryllium | µg/g | 2.5 | 0.5 | 0.7 | 0.9 | 1.1 |
| Boron | µg/g | 36 | 5 | 5 | <5 | 9 |
| Boron (Hot Water Soluble) | µg/g | 1.5 | 0.10 | 0.13 | 0.29 | 0.14 |
| Cadmium | µg/g | 1.2 | 0.5 | <0.5 | <0.5 | <0.5 |
| Chromium | µg/g | 70 | 2 | 25 | 28 | 37 |
| Cobalt | µg/g | 22 | 0.5 | 10.9 | 12.3 | 14.8 |
| Copper | µg/g | 92 | 1 | 21 | 23 | 26 |
| Lead | µg/g | 120 | 1 | 9 | 13 | 13 |
| Molybdenum | µg/g | 2 | 0.5 | <0.5 | <0.5 | <0.5 |
| Nickel | µg/g | 82 | 1 | 25 | 28 | 34 |
| Selenium | µg/g | 1.5 | 0.4 | <0.4 | 0.5 | 0.4 |
| Silver | µg/g | 0.5 | 0.2 | <0.2 | <0.2 | <0.2 |
| Thallium | µg/g | 1 | 0.4 | <0.4 | <0.4 | <0.4 |
| Uranium | µg/g | 2.5 | 0.5 | <0.5 | 0.5 | 0.6 |
| Vanadium | µg/g | 86 | 1 | 35 | 39 | 49 |
| Zinc | µg/g | 290 | 5 | 53 | 66 | 67 |
| Chromium VI | µg/g | 0.66 | 0.2 | <0.2 | <0.2 | <0.2 |
| Cyanide | µg/g | 0.051 | 0.040 | <0.040 | <0.040 | <0.040 |
| Mercury | µg/g | 0.27 | 0.10 | <0.10 | <0.10 | <0.10 |
| pH, 2:1 CaCl2 Extraction | pH Units | | NA | 7.42 | 7.36 | 7.54 |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 9: Generic Site Condition Standards for Use within 30 m of a Water Body in a Non-Potable Ground Water Condition - 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.

268398-268853 pH was determined on the 0.01M CaCl2 extract prepared at 2:1 ratio.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:

Anamjot Bhela




Certificate of Analysis

AGAT WORK ORDER: 19T478647

PROJECT: City of Brampton Phase 2

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CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Robert Mitzakov

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - ORPs (Soil)

DATE RECEIVED: 2019-06-11

DATE REPORTED: 2019-06-24

| Parameter | Unit | SAMPLE DESCRIPTION: | | | BH30-01 | BH51-02 | BH70-01 |
|-------------------------|-------|---------------------|-------|-------|------------|------------|------------|
| | | SAMPLE TYPE: | | | Soil | Soil | Soil |
| | | DATE SAMPLED: | | | 2019-06-11 | 2019-06-11 | 2019-06-11 |
| | | G / S | RDL | | 268398 | 268851 | 268853 |
| Electrical Conductivity | mS/cm | 0.7 | 0.005 | 0.217 | 0.510 | 0.284 | |
| Sodium Adsorption Ratio | NA | 5 | NA | 0.424 | 1.02 | 0.414 | |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 9: Generic Site Condition Standards for Use within 30 m of a Water Body in a Non-Potable Ground Water Condition - 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.

268398-268853 EC was determined on the DI water extract obtained from the 2:1 leaching procedure (2 parts DI water:1 part soil). SAR is a calculated parameter.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:

Anamjot Bhela



Certificate of Analysis

AGAT WORK ORDER: 19T478647

PROJECT: City of Brampton Phase 2

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CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Robert Mitzakov

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - PAHs (Soil)

DATE RECEIVED: 2019-06-11

DATE REPORTED: 2019-06-24

| Parameter | Unit | SAMPLE DESCRIPTION: | | BH30-02 | BH51-02 |
|----------------------------|------|---------------------|------|------------|------------|
| | | SAMPLE TYPE: | | Soil | Soil |
| | | DATE SAMPLED: | | 2019-06-11 | 2019-06-11 |
| | | G / S | RDL | 268831 | 268851 |
| Naphthalene | µg/g | 0.09 | 0.05 | <0.05 | <0.05 |
| Acenaphthylene | µg/g | 0.093 | 0.05 | <0.05 | <0.05 |
| Acenaphthene | µg/g | 0.072 | 0.05 | <0.05 | <0.05 |
| Fluorene | µg/g | 0.19 | 0.05 | <0.05 | <0.05 |
| Phenanthrene | µg/g | 0.69 | 0.05 | <0.05 | <0.05 |
| Anthracene | µg/g | 0.22 | 0.05 | <0.05 | <0.05 |
| Fluoranthene | µg/g | 0.69 | 0.05 | <0.05 | <0.05 |
| Pyrene | µg/g | 1 | 0.05 | <0.05 | <0.05 |
| Benz(a)anthracene | µg/g | 0.36 | 0.05 | <0.05 | <0.05 |
| Chrysene | µg/g | 2.8 | 0.05 | <0.05 | <0.05 |
| Benzo(b)fluoranthene | µg/g | 0.47 | 0.05 | <0.05 | <0.05 |
| Benzo(k)fluoranthene | µg/g | 0.48 | 0.05 | <0.05 | <0.05 |
| Benzo(a)pyrene | µg/g | 0.3 | 0.05 | <0.05 | <0.05 |
| Indeno(1,2,3-cd)pyrene | µg/g | 0.23 | 0.05 | <0.05 | <0.05 |
| Dibenz(a,h)anthracene | µg/g | 0.1 | 0.05 | <0.05 | <0.05 |
| Benzo(g,h,i)perylene | µg/g | 0.68 | 0.05 | <0.05 | <0.05 |
| 2-and 1-methyl Naphthalene | µg/g | 0.59 | 0.05 | <0.05 | <0.05 |
| Surrogate | Unit | Acceptable Limits | | | |
| Chrysene-d12 | % | 50-140 | | 119 | 106 |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 9: Generic Site Condition Standards for Use within 30 m of a Water Body in a Non-Potable Ground Water Condition - 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.

268831-268851 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:



Certificate of Analysis

AGAT WORK ORDER: 19T478647

PROJECT: City of Brampton Phase 2

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CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Robert Mitzakov

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2019-06-11

DATE REPORTED: 2019-06-24

| Parameter | Unit | SAMPLE DESCRIPTION: | | BH30-08 | BH51-08 |
|--------------------------------|------|---------------------|-----|---------|---------|
| | | G / S | RDL | 268835 | 268852 |
| F1 (C6 to C10) | µg/g | | 5 | <5 | <5 |
| F1 (C6 to C10) minus BTEX | µg/g | 25 | 5 | <5 | <5 |
| F2 (C10 to C16) | µg/g | 10 | 10 | <10 | <10 |
| F3 (C16 to C34) | µg/g | 240 | 50 | <50 | <50 |
| F4 (C34 to C50) | µg/g | 120 | 50 | <50 | <50 |
| Gravimetric Heavy Hydrocarbons | µg/g | 120 | 50 | NA | NA |
| Moisture Content | % | | 0.1 | 9.4 | 10.5 |
| Surrogate | Unit | Acceptable Limits | | | |
| Terphenyl | % | 60-140 | | 115 | 106 |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 9: Generic Site Condition Standards for Use within 30 m of a Water Body in a Non-Potable Ground Water Condition - 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.

268835-268852

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 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 contribution.
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC6 and nC10 response factors are within 30% of Toluene response factor.
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.
Fractions 1-4 are quantified without the contribution of PAHs. Under Ontario Regulation 153, results are considered valid without determining the PAH contribution if not requested by the client.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 19T478647

PROJECT: City of Brampton Phase 2

5835 COOPERS AVENUE
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CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Robert Mitzakov

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - VOCs (Soil)

DATE RECEIVED: 2019-06-11

DATE REPORTED: 2019-06-24

| Parameter | Unit | SAMPLE DESCRIPTION: | | BH30-08 | BH51-08 |
|-----------------------------|------|---------------------|------|------------|------------|
| | | SAMPLE TYPE: | | Soil | Soil |
| | | DATE SAMPLED: | | 2019-06-11 | 2019-06-11 |
| | | G / S | RDL | 268835 | 268852 |
| Dichlorodifluoromethane | µg/g | 0.05 | 0.05 | <0.05 | <0.05 |
| Vinyl Chloride | ug/g | 0.02 | 0.02 | <0.02 | <0.02 |
| Bromomethane | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| Trichlorofluoromethane | ug/g | 0.25 | 0.05 | <0.05 | <0.05 |
| Acetone | ug/g | 0.5 | 0.50 | <0.50 | <0.50 |
| 1,1-Dichloroethylene | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| Methylene Chloride | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| Trans- 1,2-Dichloroethylene | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| Methyl tert-butyl Ether | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| 1,1-Dichloroethane | ug/g | 0.05 | 0.02 | <0.02 | <0.02 |
| Methyl Ethyl Ketone | ug/g | 0.5 | 0.50 | <0.50 | <0.50 |
| Cis- 1,2-Dichloroethylene | ug/g | 0.05 | 0.02 | <0.02 | <0.02 |
| Chloroform | ug/g | 0.05 | 0.04 | <0.04 | <0.04 |
| 1,2-Dichloroethane | ug/g | 0.05 | 0.03 | <0.03 | <0.03 |
| 1,1,1-Trichloroethane | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| Carbon Tetrachloride | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| Benzene | ug/g | 0.02 | 0.02 | <0.02 | <0.02 |
| 1,2-Dichloropropane | ug/g | 0.05 | 0.03 | <0.03 | <0.03 |
| Trichloroethylene | ug/g | 0.05 | 0.03 | <0.03 | <0.03 |
| Bromodichloromethane | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| Methyl Isobutyl Ketone | ug/g | 0.5 | 0.50 | <0.50 | <0.50 |
| 1,1,2-Trichloroethane | ug/g | 0.05 | 0.04 | <0.04 | <0.04 |
| Toluene | ug/g | 0.2 | 0.05 | <0.05 | <0.05 |
| Dibromochloromethane | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| Ethylene Dibromide | ug/g | 0.05 | 0.04 | <0.04 | <0.04 |
| Tetrachloroethylene | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| 1,1,1,2-Tetrachloroethane | ug/g | 0.05 | 0.04 | <0.04 | <0.04 |
| Chlorobenzene | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| Ethylbenzene | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| m & p-Xylene | ug/g | | 0.05 | <0.05 | <0.05 |

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 19T478647

PROJECT: City of Brampton Phase 2

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CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Robert Mitzakov

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - VOCs (Soil)

DATE RECEIVED: 2019-06-11

DATE REPORTED: 2019-06-24

| Parameter | Unit | SAMPLE DESCRIPTION: | | BH30-08 | BH51-08 |
|---------------------------|------------|---------------------|------|---------|---------|
| | | G / S | RDL | 268835 | 268852 |
| Bromoform | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| Styrene | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| 1,1,2,2-Tetrachloroethane | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| o-Xylene | ug/g | | 0.05 | <0.05 | <0.05 |
| 1,3-Dichlorobenzene | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| 1,4-Dichlorobenzene | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| 1,2-Dichlorobenzene | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| Xylene Mixture | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| 1,3-Dichloropropene | µg/g | 0.05 | 0.04 | <0.04 | <0.04 |
| n-Hexane | µg/g | 0.05 | 0.05 | <0.05 | <0.05 |
| Surrogate | Unit | Acceptable Limits | | | |
| Toluene-d8 | % Recovery | 50-140 | | 109 | 106 |
| 4-Bromofluorobenzene | % Recovery | 50-140 | | 74 | 74 |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 9: Generic Site Condition Standards for Use within 30 m of a Water Body in a Non-Potable Ground Water Condition - 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.

268835-268852 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:



Certificate of Analysis

AGAT WORK ORDER: 19T478647

PROJECT: City of Brampton Phase 2

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CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Robert Mitzakov

SAMPLING SITE:

SAMPLED BY:

OC Pesticides (Soil)

DATE RECEIVED: 2019-06-11

DATE REPORTED: 2019-06-24

| Parameter | Unit | SAMPLE DESCRIPTION: | | | | |
|---------------------|------|---------------------|-------|------------|------------|------------|
| | | SAMPLE TYPE: | | BH30-01 | BH51-02 | BH70-01 |
| | | DATE SAMPLED: | | 2019-06-11 | 2019-06-11 | 2019-06-11 |
| | | G / S | RDL | 268398 | 268851 | 268853 |
| Aldrin | µg/g | 0.05 | 0.005 | <0.005 | <0.005 | <0.005 |
| alpha - BHC | µg/g | | 0.005 | <0.005 | <0.005 | <0.005 |
| gamma-BHC (Lindane) | µg/g | 0.01 | 0.005 | <0.005 | <0.005 | <0.005 |
| Alpha-Chlordane | µg/g | | 0.005 | <0.005 | <0.005 | <0.005 |
| Gamma-Chlordane | µg/g | | 0.005 | <0.005 | <0.005 | <0.005 |
| Chlordane (Total) | µg/g | 0.05 | 0.007 | <0.007 | <0.007 | <0.007 |
| DDD (o,p') | µg/g | | 0.005 | <0.005 | <0.005 | <0.005 |
| pp'-DDD | µg/g | | 0.005 | <0.005 | <0.005 | <0.005 |
| DDD (o,p' + p,p') | µg/g | 0.05 | 0.007 | <0.007 | <0.007 | <0.007 |
| op'-DDE | µg/g | | 0.005 | <0.005 | <0.005 | <0.005 |
| pp'-DDE | µg/g | | 0.005 | <0.005 | <0.005 | <0.005 |
| DDE (Total) | µg/g | 0.05 | 0.007 | <0.007 | <0.007 | <0.007 |
| op'-DDT | µg/g | | 0.005 | <0.005 | <0.005 | <0.005 |
| pp'- DDT | µg/g | | 0.005 | <0.005 | <0.005 | <0.005 |
| DDT (Total) | µg/g | 1.4 | 0.007 | <0.007 | <0.007 | <0.007 |
| Endosulfan (I & II) | µg/g | 0.04 | 0.007 | <0.007 | <0.007 | <0.007 |
| Dieldrin | µg/g | 0.05 | 0.005 | <0.005 | <0.005 | <0.005 |
| Endrin | µg/g | 0.04 | 0.005 | <0.005 | <0.005 | <0.005 |
| Heptachlor | µg/g | 0.05 | 0.005 | <0.005 | <0.005 | <0.005 |
| Heptachlor Epoxide | µg/g | 0.05 | 0.005 | <0.005 | <0.005 | <0.005 |
| Methoxychlor | µg/g | 0.05 | 0.005 | <0.005 | <0.005 | <0.005 |
| Moisture Content | % | | 0.1 | 20.6 | 19.9 | 18.3 |
| OC Pest Extr | NA | | | Y | Y | Y |
| Surrogate | Unit | Acceptable Limits | | | | |
| TCMX | % | 60-130 | | | | |
| Decachlorobiphenyl | % | 60-130 | | | | |

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Certificate of Analysis

AGAT WORK ORDER: 19T478647

PROJECT: City of Brampton Phase 2

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CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Robert Mitzakov

SAMPLING SITE:

SAMPLED BY:

OC Pesticides (Soil)

DATE RECEIVED: 2019-06-11

DATE REPORTED: 2019-06-24

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 9: Generic Site Condition Standards for Use within 30 m of a Water Body in a Non-Potable Ground Water Condition - 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.

268398-268853 Results are based on the dry weight of the soil.

DDT total is a calculated parameter. The calculated value is the sum of op'DDT and pp'DDT.

DDD total is a calculated parameter. The calculated value is the sum of op'DDD and pp'DDD.

DDE total is a calculated parameter. The calculated value is the sum of op'DDE and pp'DDE.

Endosulfan total is a calculated parameter. The calculated value is the sum of Endosulfan I and Endosulfan II.

Chlordane total is a calculated parameter. The calculated value is the sum of Alpha-Chlordane and Gamma-Chlordane.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 19T478647

PROJECT: City of Brampton Phase 2

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CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Robert Mitzakov

SAMPLING SITE:

SAMPLED BY:

Phenoxy Acid Herbicides (Soil)

DATE RECEIVED: 2019-06-11

DATE REPORTED: 2019-06-24

| Parameter | Unit | SAMPLE DESCRIPTION: | | | | |
|---------------------------|------|---------------------|--------|------------|------------|------------|
| | | SAMPLE TYPE: | | BH30-01 | BH51-02 | BH70-01 |
| | | DATE SAMPLED: | | 2019-06-11 | 2019-06-11 | 2019-06-11 |
| | | G / S | RDL | 268398 | 268851 | 268853 |
| 2,4-D | ug/g | | 0.10 | <0.10 | <0.10 | <0.10 |
| 2,4,5-T | ug/g | | 0.10 | <0.10 | <0.10 | <0.10 |
| 2,4,5-TP (Silvex) | ug/g | | 0.10 | <0.10 | <0.10 | <0.10 |
| Dicamba | ug/g | | 0.10 | <0.10 | <0.10 | <0.10 |
| Dichlorprop | ug/g | | 0.10 | <0.10 | <0.10 | <0.10 |
| Dinoseb | ug/g | | 0.10 | <0.10 | <0.10 | <0.10 |
| Picloram | ug/g | | 0.10 | <0.10 | <0.10 | <0.10 |
| Diclofop-methyl | ug/g | | 0.10 | <0.10 | <0.10 | <0.10 |
| 2,3,4,6-Tetrachlorophenol | ug/g | | 0.05 | <0.05 | <0.05 | <0.05 |
| 2,4-Dichlorophenol | ug/g | 0.1 | 0.05 | <0.05 | <0.05 | <0.05 |
| 2,4,5-Trichlorophenol | ug/g | 0.1 | 0.05 | <0.05 | <0.05 | <0.05 |
| 2,4,6-Trichlorophenol | ug/g | 0.1 | 0.05 | <0.05 | <0.05 | <0.05 |
| Bromoxynil | ug/g | | 0.5 | <0.5 | <0.5 | <0.5 |
| MCP (Mecoprop) | ug/g | | 1.0 | <1.0 | <1.0 | <1.0 |
| MCPA | ug/g | | 1.0 | <1.0 | <1.0 | <1.0 |
| Pentachlorophenol | ug/g | 0.1 | 0.05 | <0.05 | <0.05 | <0.05 |
| Moisture Content | % | | 0.1 | 20.6 | 19.9 | 18.3 |
| Phenoxy Extr | NA | | | Y | Y | Y |
| Surrogate | Unit | Acceptable Limits | | | | |
| DCAA | % | | 50-130 | 106 | 104 | 108 |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 9: Generic Site Condition Standards for Use within 30 m of a Water Body in a Non-Potable Ground Water Condition - 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.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:

Quality Assurance

CLIENT NAME: SNC LAVALIN INC
 PROJECT: City of Brampton Phase 2
 SAMPLING SITE:

AGAT WORK ORDER: 19T478647
 ATTENTION TO: Robert Mitzakov
 SAMPLED BY:

| Soil Analysis | | | | | | | | | | | | | | | |
|------------------------|-------|-----------|-----------|--------|-----|----------------|--------------|--------------------|-------|----------|--------------------|-------|--------------|-------------------|-------|
| RPT Date: Jun 24, 2019 | | | DUPLICATE | | | | Method Blank | REFERENCE MATERIAL | | | METHOD BLANK SPIKE | | MATRIX SPIKE | | |
| PARAMETER | Batch | Sample Id | Dup #1 | Dup #2 | RPD | Measured Value | | Acceptable Limits | | Recovery | Acceptable Limits | | Recovery | Acceptable Limits | |
| | | | | | | | | Lower | Upper | | Lower | Upper | | Lower | Upper |

O. Reg. 153(511) - ORPs (Soil)

| | | | | | | | | | | | | | | |
|-------------------------|--------|--|------|------|------|---------|------|-----|------|----|--|--|----|--|
| Electrical Conductivity | 267591 | | 3.48 | 3.57 | 2.6% | < 0.005 | 101% | 90% | 110% | NA | | | NA | |
| Sodium Adsorption Ratio | 267591 | | 39.2 | 39.6 | 1.0% | NA | NA | | | NA | | | NA | |

O. Reg. 153(511) - Metals & Inorganics (Soil)

| | | | | | | | | | | | | | | | |
|---------------------------|--------|--|--------|--------|------|---------|------|-----|------|------|-----|------|------|-----|------|
| Antimony | 272447 | | <0.8 | <0.8 | NA | < 0.8 | 102% | 70% | 130% | 90% | 80% | 120% | 70% | 70% | 130% |
| Arsenic | 272447 | | 6 | 6 | 0.0% | < 1 | 100% | 70% | 130% | 103% | 80% | 120% | 104% | 70% | 130% |
| Barium | 272447 | | 61 | 61 | 0.0% | < 2 | 100% | 70% | 130% | 100% | 80% | 120% | 89% | 70% | 130% |
| Beryllium | 272447 | | 0.6 | 0.5 | NA | < 0.5 | 104% | 70% | 130% | 99% | 80% | 120% | 98% | 70% | 130% |
| Boron | 272447 | | <5 | <5 | NA | < 5 | 72% | 70% | 130% | 99% | 80% | 120% | 83% | 70% | 130% |
| Boron (Hot Water Soluble) | 272447 | | 1.13 | 1.13 | 0.0% | < 0.10 | 109% | 60% | 140% | 104% | 70% | 130% | 103% | 60% | 140% |
| Cadmium | 272447 | | <0.5 | <0.5 | NA | < 0.5 | 112% | 70% | 130% | 101% | 80% | 120% | 104% | 70% | 130% |
| Chromium | 272447 | | 16 | 17 | 6.1% | < 2 | 90% | 70% | 130% | 100% | 80% | 120% | 103% | 70% | 130% |
| Cobalt | 272447 | | 5.4 | 5.4 | 0.0% | < 0.5 | 99% | 70% | 130% | 103% | 80% | 120% | 103% | 70% | 130% |
| Copper | 272447 | | 22 | 22 | 0.0% | < 1 | 96% | 70% | 130% | 100% | 80% | 120% | 97% | 70% | 130% |
| Lead | 272447 | | 40 | 40 | 0.0% | < 1 | 96% | 70% | 130% | 94% | 80% | 120% | 99% | 70% | 130% |
| Molybdenum | 272447 | | 0.5 | 0.5 | NA | < 0.5 | 102% | 70% | 130% | 101% | 80% | 120% | 105% | 70% | 130% |
| Nickel | 272447 | | 12 | 13 | 8.0% | < 1 | 97% | 70% | 130% | 104% | 80% | 120% | 104% | 70% | 130% |
| Selenium | 272447 | | 0.6 | 0.6 | NA | < 0.4 | 95% | 70% | 130% | 100% | 80% | 120% | 101% | 70% | 130% |
| Silver | 272447 | | <0.2 | <0.2 | NA | < 0.2 | 95% | 70% | 130% | 99% | 80% | 120% | 98% | 70% | 130% |
| Thallium | 272447 | | <0.4 | <0.4 | NA | < 0.4 | 100% | 70% | 130% | 104% | 80% | 120% | 102% | 70% | 130% |
| Uranium | 272447 | | 0.7 | 0.7 | NA | < 0.5 | 100% | 70% | 130% | 102% | 80% | 120% | 102% | 70% | 130% |
| Vanadium | 272447 | | 24 | 24 | 0.0% | < 1 | 99% | 70% | 130% | 102% | 80% | 120% | 104% | 70% | 130% |
| Zinc | 272447 | | 146 | 147 | 0.7% | < 5 | 99% | 70% | 130% | 100% | 80% | 120% | 104% | 70% | 130% |
| Chromium VI | 274932 | | <0.2 | <0.2 | NA | < 0.2 | 105% | 70% | 130% | 99% | 80% | 120% | 100% | 70% | 130% |
| Cyanide | 274628 | | <0.040 | <0.040 | NA | < 0.040 | 91% | 70% | 130% | 105% | 80% | 120% | 106% | 70% | 130% |
| Mercury | 272447 | | <0.10 | <0.10 | NA | < 0.10 | 106% | 70% | 130% | 99% | 80% | 120% | 100% | 70% | 130% |
| pH, 2:1 CaCl2 Extraction | 274628 | | 7.70 | 7.71 | 0.1% | NA | 101% | 80% | 120% | NA | | | NA | | |

Comments: NA signifies Not Applicable.

Duplicate Qualifier: As the measured result approaches the RL, the uncertainty associated with the value increases dramatically, thus duplicate acceptance limits apply only where the average of the two duplicates is greater than five times the RL

pH duplicates QA acceptance criteria was met relative as stated in Table 5-15 of Analytical Protocol document.

Certified By:




Quality Assurance

CLIENT NAME: SNC LAVALIN INC
PROJECT: City of Brampton Phase 2
SAMPLING SITE:

AGAT WORK ORDER: 19T478647
ATTENTION TO: Robert Mitzakov
SAMPLED BY:

| Trace Organics Analysis | | | | | | | | | | | | | | | | |
|-------------------------|-------|-----------|-----------|--------|-----|----------------|--------------|--------------------|-------|----------|--------------------|-------|----------|-------------------|-------|--|
| RPT Date: Jun 24, 2019 | | | DUPLICATE | | | | Method Blank | REFERENCE MATERIAL | | | METHOD BLANK SPIKE | | | MATRIX SPIKE | | |
| PARAMETER | Batch | Sample Id | Dup #1 | Dup #2 | RPD | Measured Value | | Acceptable Limits | | Recovery | Acceptable Limits | | Recovery | Acceptable Limits | | |
| | | | | | | | | Lower | Upper | | Lower | Upper | | Lower | Upper | |

Phenoxy Acid Herbicides (Soil)

| | | | | | | | | | | | | | | | |
|---------------------------|--------|--------|--------|--------|----|--------|------|-----|------|------|-----|------|------|-----|------|
| 2,4-D | 268398 | 268398 | < 0.10 | < 0.10 | NA | < 0.10 | 100% | 50% | 130% | 98% | 50% | 130% | 100% | 50% | 130% |
| 2,4,5-T | 268398 | 268398 | < 0.10 | < 0.10 | NA | < 0.10 | 90% | 50% | 130% | 90% | 50% | 130% | 92% | 50% | 130% |
| 2,4,5-TP (Silvex) | 268398 | 268398 | < 0.10 | < 0.10 | NA | < 0.10 | 92% | 50% | 130% | 85% | 50% | 130% | 70% | 50% | 130% |
| Dicamba | 268398 | 268398 | < 0.10 | < 0.10 | NA | < 0.10 | 97% | 50% | 130% | 86% | 50% | 130% | 76% | 50% | 130% |
| Dichlorprop | 268398 | 268398 | < 0.10 | < 0.10 | NA | < 0.10 | 102% | 50% | 130% | 90% | 50% | 130% | 80% | 50% | 130% |
| Dinoseb | 268398 | 268398 | < 0.10 | < 0.10 | NA | < 0.10 | 75% | 50% | 130% | 65% | 50% | 130% | 63% | 50% | 130% |
| Picloram | 268398 | 268398 | < 0.10 | < 0.10 | NA | < 0.10 | 103% | 50% | 130% | 80% | 50% | 130% | 64% | 50% | 130% |
| Diclofop-methyl | 268398 | 268398 | < 0.10 | < 0.10 | NA | < 0.10 | 105% | 50% | 130% | 101% | 50% | 130% | 95% | 50% | 130% |
| 2,3,4,6-Tetrachlorophenol | 268398 | 268398 | < 0.05 | < 0.05 | NA | < 0.05 | 117% | 50% | 130% | 101% | 50% | 130% | 97% | 50% | 130% |
| 2,4-Dichlorophenol | 268398 | 268398 | < 0.05 | < 0.05 | NA | < 0.05 | 99% | 50% | 130% | 90% | 50% | 130% | 74% | 50% | 130% |
| 2,4,5-Trichlorophenol | 268398 | 268398 | < 0.05 | < 0.05 | NA | < 0.05 | 90% | 50% | 130% | 85% | 50% | 130% | 70% | 50% | 130% |
| 2,4,6-Trichlorophenol | 268398 | 268398 | < 0.05 | < 0.05 | NA | < 0.05 | 111% | 50% | 130% | 101% | 50% | 130% | 97% | 50% | 130% |
| Bromoxynil | 268398 | 268398 | < 0.5 | < 0.5 | NA | < 0.5 | 98% | 60% | 130% | 95% | 60% | 130% | 94% | 60% | 130% |
| MCPP (Mecoprop) | 268398 | 268398 | < 1.0 | < 1.0 | NA | < 1.0 | NA | 50% | 130% | 100% | 50% | 130% | 80% | 50% | 130% |
| MCPA | 268398 | 268398 | < 1.0 | < 1.0 | NA | < 1.0 | NA | 50% | 130% | 98% | 50% | 130% | 90% | 50% | 130% |
| Pentachlorophenol | 268398 | 268398 | < 0.05 | < 0.05 | NA | < 0.05 | 94% | 50% | 130% | 90% | 50% | 130% | 80% | 50% | 130% |

O. Reg. 153(511) - PAHs (Soil)

| | | | | | | | | | | | | | | | |
|------------------------|--------|--------|--------|--------|----|--------|------|-----|------|-----|-----|------|------|-----|------|
| Naphthalene | 268851 | 268851 | < 0.05 | < 0.05 | NA | < 0.05 | 93% | 50% | 140% | 65% | 50% | 140% | 73% | 50% | 140% |
| Acenaphthylene | 268851 | 268851 | < 0.05 | < 0.05 | NA | < 0.05 | 106% | 50% | 140% | 65% | 50% | 140% | 70% | 50% | 140% |
| Acenaphthene | 268851 | 268851 | < 0.05 | < 0.05 | NA | < 0.05 | 106% | 50% | 140% | 62% | 50% | 140% | 72% | 50% | 140% |
| Fluorene | 268851 | 268851 | < 0.05 | < 0.05 | NA | < 0.05 | 108% | 50% | 140% | 65% | 50% | 140% | 74% | 50% | 140% |
| Phenanthrene | 268851 | 268851 | < 0.05 | < 0.05 | NA | < 0.05 | 114% | 50% | 140% | 74% | 50% | 140% | 74% | 50% | 140% |
| Anthracene | 268851 | 268851 | < 0.05 | < 0.05 | NA | < 0.05 | 115% | 50% | 140% | 76% | 50% | 140% | 79% | 50% | 140% |
| Fluoranthene | 268851 | 268851 | < 0.05 | < 0.05 | NA | < 0.05 | 118% | 50% | 140% | 79% | 50% | 140% | 94% | 50% | 140% |
| Pyrene | 268851 | 268851 | < 0.05 | < 0.05 | NA | < 0.05 | 117% | 50% | 140% | 81% | 50% | 140% | 95% | 50% | 140% |
| Benz(a)anthracene | 268851 | 268851 | < 0.05 | < 0.05 | NA | < 0.05 | 113% | 50% | 140% | 86% | 50% | 140% | 104% | 50% | 140% |
| Chrysene | 268851 | 268851 | < 0.05 | < 0.05 | NA | < 0.05 | 119% | 50% | 140% | 95% | 50% | 140% | 102% | 50% | 140% |
| Benzo(b)fluoranthene | 268851 | 268851 | < 0.05 | < 0.05 | NA | < 0.05 | 97% | 50% | 140% | 78% | 50% | 140% | 73% | 50% | 140% |
| Benzo(k)fluoranthene | 268851 | 268851 | < 0.05 | < 0.05 | NA | < 0.05 | 107% | 50% | 140% | 69% | 50% | 140% | 66% | 50% | 140% |
| Benzo(a)pyrene | 268851 | 268851 | < 0.05 | < 0.05 | NA | < 0.05 | 116% | 50% | 140% | 68% | 50% | 140% | 68% | 50% | 140% |
| Indeno(1,2,3-cd)pyrene | 268851 | 268851 | < 0.05 | < 0.05 | NA | < 0.05 | 111% | 50% | 140% | 62% | 50% | 140% | 66% | 50% | 140% |
| Dibenz(a,h)anthracene | 268851 | 268851 | < 0.05 | < 0.05 | NA | < 0.05 | 116% | 50% | 140% | 72% | 50% | 140% | 70% | 50% | 140% |
| Benzo(g,h,i)perylene | 268851 | 268851 | < 0.05 | < 0.05 | NA | < 0.05 | 111% | 50% | 140% | 63% | 50% | 140% | 64% | 50% | 140% |

OC Pesticides (Soil)

| | | | | | | | | | | | | | | | |
|---------------------|--------|--|---------|---------|----|---------|-----|-----|------|-----|-----|------|-----|-----|------|
| Aldrin | 268265 | | < 0.005 | < 0.005 | NA | < 0.005 | 87% | 60% | 140% | 94% | 60% | 140% | 87% | 60% | 140% |
| alpha - BHC | 268265 | | < 0.005 | < 0.005 | NA | < 0.005 | 89% | 60% | 140% | 92% | 60% | 140% | 86% | 60% | 140% |
| gamma-BHC (Lindane) | 268265 | | < 0.005 | < 0.005 | NA | < 0.005 | 86% | 60% | 140% | 93% | 60% | 140% | 86% | 60% | 140% |
| Alpha-Chlordane | 268265 | | < 0.005 | < 0.005 | NA | < 0.005 | 91% | 60% | 140% | 89% | 60% | 140% | 89% | 60% | 140% |

Quality Assurance

 CLIENT NAME: SNC LAVALIN INC
 PROJECT: City of Brampton Phase 2
 SAMPLING SITE:

 AGAT WORK ORDER: 19T478647
 ATTENTION TO: Robert Mitzakov
 SAMPLED BY:

Trace Organics Analysis (Continued)

| RPT Date: Jun 24, 2019 | | | DUPLICATE | | | | Method Blank | REFERENCE MATERIAL | | | METHOD BLANK SPIKE | | | MATRIX SPIKE | | |
|------------------------|--------|-----------|-----------|---------|-----|----------------|--------------|--------------------|-------|----------|--------------------|-------|----------|-------------------|-------|--|
| PARAMETER | Batch | Sample Id | Dup #1 | Dup #2 | RPD | Measured Value | | Acceptable Limits | | Recovery | Acceptable Limits | | Recovery | Acceptable Limits | | |
| | | | | | | | | Lower | Upper | | Lower | Upper | | Lower | Upper | |
| Gamma-Chlordane | 268265 | | < 0.005 | < 0.005 | NA | < 0.005 | 92% | 60% | 140% | 89% | 60% | 140% | 91% | 60% | 140% | |
| Chlordane (Total) | 268265 | | < 0.007 | < 0.007 | NA | < 0.007 | 92% | 60% | 140% | 89% | 60% | 140% | 90% | 60% | 140% | |
| DDD (o,p') | 268265 | | < 0.005 | < 0.005 | NA | < 0.005 | 97% | 60% | 140% | 82% | 60% | 140% | 81% | 60% | 140% | |
| pp'-DDD | 268265 | | < 0.005 | < 0.005 | NA | < 0.005 | 97% | 60% | 140% | 86% | 60% | 140% | 84% | 60% | 140% | |
| DDD (o,p' + p,p') | 268265 | | < 0.007 | < 0.007 | NA | < 0.007 | 97% | 60% | 140% | 84% | 60% | 140% | 83% | 60% | 140% | |
| op'-DDE | 268265 | | < 0.005 | < 0.005 | NA | < 0.005 | 96% | 60% | 140% | 85% | 60% | 140% | 82% | 60% | 140% | |
| pp'-DDE | 268265 | | < 0.005 | < 0.005 | NA | < 0.005 | 98% | 60% | 140% | 86% | 60% | 140% | 83% | 60% | 140% | |
| DDE (Total) | 268265 | | < 0.007 | < 0.007 | NA | < 0.007 | 97% | 60% | 140% | 86% | 60% | 140% | 83% | 60% | 140% | |
| op'-DDT | 268265 | | < 0.005 | < 0.005 | NA | < 0.005 | 91% | 60% | 140% | 85% | 60% | 140% | 83% | 60% | 140% | |
| pp'- DDT | 268265 | | < 0.005 | < 0.005 | NA | < 0.005 | 92% | 60% | 140% | 86% | 60% | 140% | 83% | 60% | 140% | |
| DDT (Total) | 268265 | | < 0.007 | < 0.007 | NA | < 0.007 | 90% | 60% | 140% | 86% | 60% | 140% | 83% | 60% | 140% | |
| Endosulfan (I & II) | 268265 | | < 0.007 | < 0.007 | NA | < 0.007 | 96% | 60% | 140% | 89% | 60% | 140% | 85% | 60% | 140% | |
| Dieldrin | 268265 | | < 0.005 | < 0.005 | NA | < 0.005 | 91% | 60% | 140% | 88% | 60% | 140% | 84% | 60% | 140% | |
| Endrin | 268265 | | < 0.005 | < 0.005 | NA | < 0.005 | 88% | 60% | 140% | 93% | 60% | 140% | 90% | 60% | 140% | |
| Heptachlor | 268265 | | < 0.005 | < 0.005 | NA | < 0.005 | 82% | 60% | 140% | 95% | 60% | 140% | 80% | 60% | 140% | |
| Heptachlor Epoxide | 268265 | | < 0.005 | < 0.005 | NA | < 0.005 | 90% | 60% | 140% | 94% | 60% | 140% | 89% | 60% | 140% | |
| Methoxychlor | 268265 | | < 0.005 | < 0.005 | NA | < 0.005 | 93% | 60% | 140% | 103% | 60% | 140% | 91% | 60% | 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).

Certified By: _____





Method Summary

CLIENT NAME: SNC LAVALIN INC
 PROJECT: City of Brampton Phase 2
 SAMPLING SITE:

AGAT WORK ORDER: 19T478647
 ATTENTION TO: Robert Mitzakov
 SAMPLED BY:

| PARAMETER | AGAT S.O.P | LITERATURE REFERENCE | ANALYTICAL TECHNIQUE |
|--------------------------------------|--------------|---|-------------------------|
| Soil Analysis | | | |
| Antimony | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Arsenic | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Barium | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Beryllium | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Boron | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Boron (Hot Water Soluble) | MET-93-6104 | EPA SW 846 6010C; MSA, Part 3, Ch.21 | ICP/OES |
| Cadmium | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Chromium | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Cobalt | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Copper | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Lead | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Molybdenum | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Nickel | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Selenium | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Silver | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Thallium | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Uranium | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Vanadium | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Zinc | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Chromium VI | INOR-93-6029 | SM 3500 B; MSA Part 3, Ch. 25 | SPECTROPHOTOMETER |
| Cyanide | INOR-93-6052 | MOE CN-3015 & E 3009 A; SM 4500 CN | TECHNICON AUTO ANALYZER |
| Mercury | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| pH, 2:1 CaCl ₂ Extraction | INOR-93-6031 | MSA part 3 & SM 4500-H+ B | PH METER |
| Electrical Conductivity | INOR-93-6036 | McKeague 4.12, SM 2510 B | EC METER |
| Sodium Adsorption Ratio | INOR-93-6007 | McKeague 4.12 & 3.26 & EPA SW-846 6010C | ICP/OES |

Method Summary

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 SAMPLED BY:

| PARAMETER | AGAT S.O.P | LITERATURE REFERENCE | ANALYTICAL TECHNIQUE |
|--------------------------------|-------------|--------------------------------|----------------------|
| Trace Organics Analysis | | | |
| Naphthalene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Acenaphthylene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Acenaphthene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Fluorene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Phenanthrene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Anthracene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Fluoranthene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Pyrene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Benz(a)anthracene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Chrysene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Benzo(b)fluoranthene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Benzo(k)fluoranthene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Benzo(a)pyrene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Indeno(1,2,3-cd)pyrene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Dibenz(a,h)anthracene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Benzo(g,h,i)perylene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| 2-and 1-methyl Naphthalene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Chrysene-d12 | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| F1 (C6 to C10) | VOL-91-5009 | CCME Tier 1 Method, SW846 5035 | P&T GC/FID |
| F1 (C6 to C10) minus BTEX | VOL-91-5009 | CCME Tier 1 Method, SW846 5035 | P&T GC/FID |
| F2 (C10 to C16) | VOL-91-5009 | CCME Tier 1 Method | GC/FID |
| F3 (C16 to C34) | VOL-91-5009 | CCME Tier 1 Method | GC/FID |
| F4 (C34 to C50) | VOL-91-5009 | CCME Tier 1 Method | GC/FID |
| Gravimetric Heavy Hydrocarbons | VOL-91-5009 | CCME Tier 1 Method | BALANCE |
| Moisture Content | VOL-91-5009 | CCME Tier 1 Method | BALANCE |
| Terphenyl | VOL-91-5009 | CCME Tier 1 Method | GC/FID |
| 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 | EPA SW-846 5035 & 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 |

Method Summary

 CLIENT NAME: SNC LAVALIN INC
 PROJECT: City of Brampton Phase 2
 SAMPLING SITE:

 AGAT WORK ORDER: 19T478647
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 SAMPLED BY:

| PARAMETER | AGAT S.O.P | LITERATURE REFERENCE | ANALYTICAL TECHNIQUE |
|---------------------------|-------------|-------------------------|----------------------|
| 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 |
| Xylene Mixture | VOL-91-5002 | EPA SW-846 5035 & 8260D | (P&T)GC/MS |
| 1,3-Dichloropropene | 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 | EPA SW-846 5035 & 8260D | (P&T)GC/MS |
| 4-Bromofluorobenzene | VOL-91-5002 | EPA SW-846 5035 & 8260D | (P&T)GC/MS |
| Aldrin | ORG-91-5113 | EPA SW - 846 3541/8081 | GC/ECD |
| alpha - BHC | ORG-91-5113 | EPA SW - 846 3541/8081 | GC/ECD |
| gamma-BHC (Lindane) | ORG-91-5113 | EPA SW - 846 3541/8081 | GC/ECD |
| Alpha-Chlordane | ORG-91-5113 | EPA SW - 846 3541/8081 | GC/ECD |
| Gamma-Chlordane | ORG-91-5113 | EPA SW - 846 3541/8081 | GC/ECD |
| Chlordane (Total) | ORG-91-5113 | EPA SW - 846 3541/8081 | GC/ECD |
| DDD (o,p') | ORG-91-5113 | EPA SW - 846 3541/8081 | GC/ECD |
| pp'-DDD | ORG-91-5113 | EPA SW - 846 3541/8081 | GC/ECD |
| DDD (o,p' + p,p') | ORG-91-5113 | EPA SW - 846 3541/8081 | GC/ECD |
| op'-DDE | ORG-91-5113 | EPA SW - 846 3541/8081 | GC/ECD |
| pp'-DDE | ORG-91-5113 | EPA SW - 846 3541/8081 | GC/ECD |
| DDE (Total) | ORG-91-5113 | EPA SW - 846 3541/8081 | GC/ECD |
| op'-DDT | ORG-91-5113 | EPA SW - 846 3541/8081 | GC/ECD |
| pp'- DDT | ORG-91-5113 | EPA SW - 846 3541/8081 | GC/ECD |
| DDT (Total) | ORG-91-5113 | EPA SW - 846 3541/8081 | GC/ECD |
| Endosulfan (I & II) | ORG-91-5113 | EPA SW - 846 3541/8081 | GC/ECD |
| Dieldrin | ORG-91-5113 | EPA SW - 846 3541/8081 | GC/ECD |
| Endrin | ORG-91-5113 | EPA SW - 846 3541/8081 | GC/ECD |
| Heptachlor | ORG-91-5113 | EPA SW - 846 3541/8081 | GC/ECD |
| Heptachlor Epoxide | ORG-91-5113 | EPA SW - 846 3541/8081 | GC/ECD |
| Methoxychlor | ORG-91-5113 | EPA SW - 846 3541/8081 | GC/ECD |
| Moisture Content | | MOE E3139 | BALANCE |
| TCMX | ORG-91-5112 | EPA SW-846 3541 & 8081 | GC/ECD |
| Decachlorobiphenyl | ORG-91-5113 | EPA SW - 846 3541/8081 | GC/ECD |
| OC Pest Extr | ORG-91-5113 | EPA SW - 846 3541/8081 | N/A |
| 2,4-D | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| 2,4,5-T | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| 2,4,5-TP (Silvex) | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| Dicamba | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| Dichlorprop | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| Dinoseb | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |

Method Summary

CLIENT NAME: SNC LAVALIN INC
 PROJECT: City of Brampton Phase 2
 SAMPLING SITE:

AGAT WORK ORDER: 19T478647
 ATTENTION TO: Robert Mitzakov
 SAMPLED BY:

| PARAMETER | AGAT S.O.P | LITERATURE REFERENCE | ANALYTICAL TECHNIQUE |
|---------------------------|-------------|----------------------|----------------------|
| Picloram | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| Diclofop-methyl | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| 2,3,4,6-Tetrachlorophenol | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| 2,4-Dichlorophenol | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| 2,4,5-Trichlorophenol | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| 2,4,6-Trichlorophenol | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| Bromoxynil | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| MCPP (Mecoprop) | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| MCPA | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| Pentachlorophenol | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| DCAA | ORG-91-5110 | EPA SW-846 8151 | GC/ECD |
| Phenoxy Extr | | | N/A |



AGAT Laboratories

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

Laboratory Use Only

Work Order #: 19T478647
Cooler Quantity: _____
Arrival Temperatures: 11.5 | 14.5 | 14.8
Custody Seal Intact: Yes No N/A
Notes: With ice

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: SNC-Lavalin Inc
Contact: Robert Mitzeke
Address: 195 The West Mall, Toronto, ON
M9C 5K1
416 635 5882 Fax: Ext. 55885
Phone: _____
Reports to be sent to:
1. Email: Robert.Mitzeke@snc-lavalin.com
2. Email: Abdel.Yussine@snc-lavalin.com

Regulatory Requirements: No Regulatory Requirement

(Please check all applicable boxes)
 Regulation 153/04
Table 9
 Ind/Com
 Res/Park
 Agriculture
Soil Texture (Check One)
 Coarse
 Fine
Region: _____
 Sewer Use
 Sanitary
 Storm
 MISA
 Regulation 558
 CCME
 Prov. Water Quality Objectives (PWQO)
 Other
Indicate One

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): _____

Project Information:

Project: City of Brampton - Phase II
Site Location: 109C Highway 50, Brampton
Sampled By: Jay Preston
AGAT Quote #: _____ PO: 665125

Is this submission for a Record of Site Condition?

Yes No

Report Guideline on Certificate of Analysis

Yes No

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

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

Invoice Information:

Bill To Same: Yes No
Company: SNC-Lavalin Inc
Contact: _____
Address: _____
Email: Psyches@snc-lavalin.com

Sample Matrix Legend

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

Field Filtered - Metals, Hg, CrVI

| O. Reg 153 | | Metals and Inorganics | | Volatiles | | Organochlorine Pesticides | | Sewer Use | | Potentially Hazardous or High Concentration (Y/N) | |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|---------------------------|--------------------------|--------------------------|--------------------------|---|--|
| All Metals | Hydride Metals | ORPs | Full Metals Scan | TP | NO ₃ | PAHs | TCLP | ABNS | ABNS | ABNS | |
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CLIENT NAME: SNC LAVALIN INC
235 LESMILL ROAD
TORONTO, ON M3B 2V1
(416) 679-6000

ATTENTION TO: Robert Mitzakov

PROJECT: City of Brampton - Phase II

AGAT WORK ORDER: 19T479815

SOIL ANALYSIS REVIEWED BY: Amanjot Bhela, Inorganic Supervisor

TRACE ORGANICS REVIEWED BY: Oksana Gushyla, Trace Organics Lab Supervisor

DATE REPORTED: Jun 25, 2019

PAGES (INCLUDING COVER): 18

VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (905) 712-5100

*NOTES

All samples will be disposed of within 30 days following analysis. Please contact the lab if you require additional sample storage time.



Certificate of Analysis

AGAT WORK ORDER: 19T479815

PROJECT: City of Brampton - Phase II

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<http://www.agatlabs.com>

CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Robert Mitzakov

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - Metals & Inorganics (Soil)

DATE RECEIVED: 2019-06-13

DATE REPORTED: 2019-06-25

| Parameter | Unit | SAMPLE DESCRIPTION: | | | | |
|---------------------------|----------|---------------------|-------|------------|------------|------------|
| | | SAMPLE TYPE: | | BH35-03 | BH22-03A | BH52-03 |
| | | G / S | RDL | 2019-06-12 | 2019-06-12 | 2019-06-12 |
| | | | | 274941 | 275045 | 275049 |
| Antimony | µg/g | 1.3 | 0.8 | <0.8 | <0.8 | <0.8 |
| Arsenic | µg/g | 18 | 1 | 4 | 4 | 4 |
| Barium | µg/g | 220 | 2 | 58 | 62 | 61 |
| Beryllium | µg/g | 2.5 | 0.5 | 0.5 | 0.5 | <0.5 |
| Boron | µg/g | 36 | 5 | 5 | <5 | 5 |
| Boron (Hot Water Soluble) | µg/g | 1.5 | 0.10 | 0.12 | <0.10 | 0.11 |
| Cadmium | µg/g | 1.2 | 0.5 | <0.5 | <0.5 | <0.5 |
| Chromium | µg/g | 70 | 2 | 17 | 17 | 17 |
| Cobalt | µg/g | 22 | 0.5 | 9.4 | 9.6 | 10.0 |
| Copper | µg/g | 92 | 1 | 21 | 20 | 20 |
| Lead | µg/g | 120 | 1 | 8 | 8 | 8 |
| Molybdenum | µg/g | 2 | 0.5 | <0.5 | <0.5 | <0.5 |
| Nickel | µg/g | 82 | 1 | 20 | 20 | 20 |
| Selenium | µg/g | 1.5 | 0.4 | <0.4 | <0.4 | <0.4 |
| Silver | µg/g | 0.5 | 0.2 | <0.2 | <0.2 | <0.2 |
| Thallium | µg/g | 1 | 0.4 | <0.4 | <0.4 | <0.4 |
| Uranium | µg/g | 2.5 | 0.5 | 0.5 | <0.5 | 0.6 |
| Vanadium | µg/g | 86 | 1 | 25 | 26 | 24 |
| Zinc | µg/g | 290 | 5 | 42 | 43 | 41 |
| Chromium VI | µg/g | 0.66 | 0.2 | <0.2 | <0.2 | <0.2 |
| Cyanide | µg/g | 0.051 | 0.040 | <0.040 | <0.040 | <0.040 |
| Mercury | µg/g | 0.27 | 0.10 | <0.10 | <0.10 | <0.10 |
| Electrical Conductivity | mS/cm | 0.7 | 0.005 | 0.156 | 0.209 | 0.188 |
| Sodium Adsorption Ratio | NA | 5 | NA | 0.281 | 0.297 | 0.307 |
| pH, 2:1 CaCl2 Extraction | pH Units | | NA | 7.51 | 7.61 | 7.62 |

Certified By:

Anamjot Bhela




AGAT Laboratories

Certificate of Analysis

AGAT WORK ORDER: 19T479815

PROJECT: City of Brampton - Phase II

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CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Robert Mitzakov

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - Metals & Inorganics (Soil)

DATE RECEIVED: 2019-06-13

DATE REPORTED: 2019-06-25

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 9: Generic Site Condition Standards for Use within 30 m of a Water Body in a Non-Potable Ground Water Condition - 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.
274941-275049 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:

Anamjot Bhela




Certificate of Analysis

AGAT WORK ORDER: 19T479815

PROJECT: City of Brampton - Phase II

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CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Robert Mitzakov

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - OC Pesticides (Soil)

DATE RECEIVED: 2019-06-13

DATE REPORTED: 2019-06-25

| Parameter | Unit | SAMPLE DESCRIPTION: | | | | |
|-----------------------------|-------|---------------------|--------|------------|------------|------------|
| | | SAMPLE TYPE: | | BH35-03 | BH22-03A | BH52-03 |
| | | DATE SAMPLED: | | 2019-06-12 | 2019-06-12 | 2019-06-12 |
| | G / S | RDL | 274941 | 275045 | 275049 | |
| Hexachloroethane | µg/g | 0.01 | 0.01 | <0.01 | <0.01 | <0.01 |
| Gamma-Hexachlorocyclohexane | µg/g | 0.01 | 0.005 | <0.005 | <0.005 | <0.005 |
| Heptachlor | µg/g | 0.05 | 0.005 | <0.005 | <0.005 | <0.005 |
| Aldrin | µg/g | 0.05 | 0.005 | <0.005 | <0.005 | <0.005 |
| Heptachlor Epoxide | µg/g | 0.05 | 0.005 | <0.005 | <0.005 | <0.005 |
| Endosulfan | µg/g | 0.04 | 0.005 | <0.005 | <0.005 | <0.005 |
| Chlordane | µg/g | 0.05 | 0.007 | <0.007 | <0.007 | <0.007 |
| DDE | µg/g | 0.05 | 0.007 | <0.007 | <0.007 | <0.007 |
| DDD | µg/g | 0.05 | 0.007 | <0.007 | <0.007 | <0.007 |
| DDT | µg/g | 1.4 | 0.007 | <0.007 | <0.007 | <0.007 |
| Dieldrin | µg/g | 0.05 | 0.005 | <0.005 | <0.005 | <0.005 |
| Endrin | µg/g | 0.04 | 0.005 | <0.005 | <0.005 | <0.005 |
| Methoxychlor | µg/g | 0.05 | 0.005 | <0.005 | <0.005 | <0.005 |
| Hexachlorobenzene | µg/g | 0.02 | 0.005 | <0.005 | <0.005 | <0.005 |
| Hexachlorobutadiene | µg/g | 0.01 | 0.01 | <0.01 | <0.01 | <0.01 |
| Moisture Content | % | | 0.1 | 7.1 | 9.3 | 9.9 |
| Surrogate | Unit | Acceptable Limits | | | | |
| TCMX | % | | 50-140 | 74 | 72 | 68 |
| Decachlorobiphenyl | % | | 60-130 | 96 | 82 | 76 |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 9: Generic Site Condition Standards for Use within 30 m of a Water Body in a Non-Potable Ground Water Condition - 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.

274941-275049 Results are based on the dry weight of the soil.
DDT total is a calculated parameter. The calculated value is the sum of op/DDT and pp/DDT.
DDD total is a calculated parameter. The calculated value is the sum of op/DDD and pp/DDD.
DDE total is a calculated parameter. The calculated value is the sum of op/DDE and pp/DDE.
Endosulfan total is a calculated parameter. The calculated value is the sum of Endosulfan I and Endosulfan II.
Chlordane total is a calculated parameter. The calculated value is the sum of Alpha-Chlordane and Gamma-Chlordane.

Analysis performed at AGAT Toronto (unless marked by *)

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AGAT WORK ORDER: 19T479815

PROJECT: City of Brampton - Phase II

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CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Robert Mitzakov

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - PAHs (Soil)

DATE RECEIVED: 2019-06-13

DATE REPORTED: 2019-06-25

| | | SAMPLE DESCRIPTION: BH22-03A | | | |
|----------------------------|------|------------------------------|------|--------|--|
| | | SAMPLE TYPE: Soil | | | |
| | | DATE SAMPLED: 2019-06-12 | | | |
| Parameter | Unit | G / S | RDL | 275045 | |
| Naphthalene | µg/g | 0.09 | 0.05 | <0.05 | |
| Acenaphthylene | µg/g | 0.093 | 0.05 | <0.05 | |
| Acenaphthene | µg/g | 0.072 | 0.05 | <0.05 | |
| Fluorene | µg/g | 0.19 | 0.05 | <0.05 | |
| Phenanthrene | µg/g | 0.69 | 0.05 | <0.05 | |
| Anthracene | µg/g | 0.22 | 0.05 | <0.05 | |
| Fluoranthene | µg/g | 0.69 | 0.05 | <0.05 | |
| Pyrene | µg/g | 1 | 0.05 | <0.05 | |
| Benz(a)anthracene | µg/g | 0.36 | 0.05 | <0.05 | |
| Chrysene | µg/g | 2.8 | 0.05 | <0.05 | |
| Benzo(b)fluoranthene | µg/g | 0.47 | 0.05 | <0.05 | |
| Benzo(k)fluoranthene | µg/g | 0.48 | 0.05 | <0.05 | |
| Benzo(a)pyrene | µg/g | 0.3 | 0.05 | <0.05 | |
| Indeno(1,2,3-cd)pyrene | µg/g | 0.23 | 0.05 | <0.05 | |
| Dibenz(a,h)anthracene | µg/g | 0.1 | 0.05 | <0.05 | |
| Benzo(g,h,i)perylene | µg/g | 0.68 | 0.05 | <0.05 | |
| 2-and 1-methyl Naphthalene | µg/g | 0.59 | 0.05 | <0.05 | |
| Surrogate | Unit | Acceptable Limits | | | |
| Chrysene-d12 | % | 50-140 | 76 | | |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 9: Generic Site Condition Standards for Use within 30 m of a Water Body in a Non-Potable Ground Water Condition - 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.

275045 Results are based on the dry weight of the soil.

Note: The result for Benzo(b)&j)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 *)

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AGAT WORK ORDER: 19T479815

PROJECT: City of Brampton - Phase II

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CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Robert Mitzakov

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2019-06-13

DATE REPORTED: 2019-06-25

| Parameter | Unit | SAMPLE DESCRIPTION: | | BH35-07 | BH22-08A |
|--------------------------------|------|---------------------|-----|---------|----------|
| | | G / S | RDL | 275043 | 275048 |
| F1 (C6 to C10) | µg/g | | 5 | <5 | <5 |
| F1 (C6 to C10) minus BTEX | µg/g | 25 | 5 | <5 | <5 |
| F2 (C10 to C16) | µg/g | 10 | 10 | <10 | <10 |
| F3 (C16 to C34) | µg/g | 240 | 50 | <50 | <50 |
| F4 (C34 to C50) | µg/g | 120 | 50 | <50 | <50 |
| Gravimetric Heavy Hydrocarbons | µg/g | 120 | 50 | NA | NA |
| Moisture Content | % | | 0.1 | 9.2 | 8.0 |
| Surrogate | Unit | Acceptable Limits | | | |
| Terphenyl | % | 60-140 | 80 | 110 | |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 9: Generic Site Condition Standards for Use within 30 m of a Water Body in a Non-Potable Ground Water Condition - 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.

275043-275048

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 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 contribution.
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC6 and nC10 response factors are within 30% of Toluene response factor.
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.
Fractions 1-4 are quantified without the contribution of PAHs. Under Ontario Regulation 153, results are considered valid without determining the PAH contribution if not requested by the client.

Analysis performed at AGAT Toronto (unless marked by *)

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AGAT WORK ORDER: 19T479815

PROJECT: City of Brampton - Phase II

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MISSISSAUGA, ONTARIO
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<http://www.agatlabs.com>

CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Robert Mitzakov

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - VOCs (Soil)

DATE RECEIVED: 2019-06-13

DATE REPORTED: 2019-06-25

| Parameter | Unit | SAMPLE DESCRIPTION: | | BH35-07 | BH22-08A |
|-----------------------------|------|---------------------|------|------------|------------|
| | | SAMPLE TYPE: | | Soil | Soil |
| | | DATE SAMPLED: | | 2019-06-12 | 2019-06-12 |
| | | G / S | RDL | 275043 | 275048 |
| Dichlorodifluoromethane | µg/g | 0.05 | 0.05 | <0.05 | <0.05 |
| Vinyl Chloride | ug/g | 0.02 | 0.02 | <0.02 | <0.02 |
| Bromomethane | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| Trichlorofluoromethane | ug/g | 0.25 | 0.05 | <0.05 | <0.05 |
| Acetone | ug/g | 0.5 | 0.50 | <0.50 | <0.50 |
| 1,1-Dichloroethylene | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| Methylene Chloride | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| Trans- 1,2-Dichloroethylene | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| Methyl tert-butyl Ether | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| 1,1-Dichloroethane | ug/g | 0.05 | 0.02 | <0.02 | <0.02 |
| Methyl Ethyl Ketone | ug/g | 0.5 | 0.50 | <0.50 | <0.50 |
| Cis- 1,2-Dichloroethylene | ug/g | 0.05 | 0.02 | <0.02 | <0.02 |
| Chloroform | ug/g | 0.05 | 0.04 | <0.04 | <0.04 |
| 1,2-Dichloroethane | ug/g | 0.05 | 0.03 | <0.03 | <0.03 |
| 1,1,1-Trichloroethane | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| Carbon Tetrachloride | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| Benzene | ug/g | 0.02 | 0.02 | <0.02 | <0.02 |
| 1,2-Dichloropropane | ug/g | 0.05 | 0.03 | <0.03 | <0.03 |
| Trichloroethylene | ug/g | 0.05 | 0.03 | <0.03 | <0.03 |
| Bromodichloromethane | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| Methyl Isobutyl Ketone | ug/g | 0.5 | 0.50 | <0.50 | <0.50 |
| 1,1,2-Trichloroethane | ug/g | 0.05 | 0.04 | <0.04 | <0.04 |
| Toluene | ug/g | 0.2 | 0.05 | <0.05 | <0.05 |
| Dibromochloromethane | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| Ethylene Dibromide | ug/g | 0.05 | 0.04 | <0.04 | <0.04 |
| Tetrachloroethylene | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| 1,1,1,2-Tetrachloroethane | ug/g | 0.05 | 0.04 | <0.04 | <0.04 |
| Chlorobenzene | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| Ethylbenzene | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| m & p-Xylene | ug/g | | 0.05 | <0.05 | <0.05 |

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 19T479815

PROJECT: City of Brampton - Phase II

5835 COOPERS AVENUE
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CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Robert Mitzakov

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - VOCs (Soil)

DATE RECEIVED: 2019-06-13

DATE REPORTED: 2019-06-25

| Parameter | Unit | SAMPLE DESCRIPTION: | | BH35-07 | BH22-08A |
|---------------------------|------------|---------------------|------|---------|----------|
| | | G / S | RDL | 275043 | 275048 |
| Bromoform | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| Styrene | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| 1,1,2,2-Tetrachloroethane | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| o-Xylene | ug/g | | 0.05 | <0.05 | <0.05 |
| 1,3-Dichlorobenzene | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| 1,4-Dichlorobenzene | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| 1,2-Dichlorobenzene | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| Xylene Mixture | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| 1,3-Dichloropropene | µg/g | 0.05 | 0.04 | <0.04 | <0.04 |
| n-Hexane | µg/g | 0.05 | 0.05 | <0.05 | <0.05 |
| Surrogate | Unit | Acceptable Limits | | | |
| Toluene-d8 | % Recovery | 50-140 | | 107 | 109 |
| 4-Bromofluorobenzene | % Recovery | 50-140 | | 80 | 77 |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 9: Generic Site Condition Standards for Use within 30 m of a Water Body in a Non-Potable Ground Water Condition - 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.

275043-275048 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:



Certificate of Analysis

AGAT WORK ORDER: 19T479815

PROJECT: City of Brampton - Phase II

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CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Robert Mitzakov

SAMPLING SITE:

SAMPLED BY:

Phenoxy Acid Herbicides (Soil)

DATE RECEIVED: 2019-06-13

DATE REPORTED: 2019-06-25

| Parameter | Unit | SAMPLE DESCRIPTION: | | | | |
|---------------------------|-------|---------------------|--------|------------|------------|------------|
| | | SAMPLE TYPE: | | BH35-03 | BH22-03A | BH52-03 |
| | | DATE SAMPLED: | | 2019-06-12 | 2019-06-12 | 2019-06-12 |
| | G / S | RDL | 274941 | 275045 | 275049 | |
| 2,4-D | ug/g | 0.10 | <0.10 | <0.10 | <0.10 | |
| 2,4,5-T | ug/g | 0.10 | <0.10 | <0.10 | <0.10 | |
| 2,4,5-TP (Silvex) | ug/g | 0.10 | <0.10 | <0.10 | <0.10 | |
| Dicamba | ug/g | 0.10 | <0.10 | <0.10 | <0.10 | |
| Dichlorprop | ug/g | 0.10 | <0.10 | <0.10 | <0.10 | |
| Dinoseb | ug/g | 0.10 | <0.10 | <0.10 | <0.10 | |
| Picloram | ug/g | 0.10 | <0.10 | <0.10 | <0.10 | |
| Diclofop-methyl | ug/g | 0.10 | <0.10 | <0.10 | <0.10 | |
| 2,3,4,6-Tetrachlorophenol | ug/g | 0.05 | <0.05 | <0.05 | <0.05 | |
| 2,4-Dichlorophenol | ug/g | 0.05 | <0.05 | <0.05 | <0.05 | |
| 2,4,5-Trichlorophenol | ug/g | 0.05 | <0.05 | <0.05 | <0.05 | |
| 2,4,6-Trichlorophenol | ug/g | 0.05 | <0.05 | <0.05 | <0.05 | |
| Bromoxynil | ug/g | 0.5 | <0.5 | <0.5 | <0.5 | |
| MCPA (Mecoprop) | ug/g | 1.0 | <1.0 | <1.0 | <1.0 | |
| MCPA | ug/g | 1.0 | <1.0 | <1.0 | <1.0 | |
| Pentachlorophenol | ug/g | 0.05 | <0.05 | <0.05 | <0.05 | |
| Phenoxy Extr | NA | | Y | Y | Y | |
| Surrogate | Unit | Acceptable Limits | | | | |
| DCAA | % | 50-130 | 66 | 70 | 66 | |

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

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:

Quality Assurance

 CLIENT NAME: SNC LAVALIN INC
 PROJECT: City of Brampton - Phase II
 SAMPLING SITE:

 AGAT WORK ORDER: 19T479815
 ATTENTION TO: Robert Mitzakov
 SAMPLED BY:

| Soil Analysis | | | | | | | | | | | | | | | |
|------------------------|-------|-----------|-----------|--------|-----|--------------|--------------------|-------------------|-------|--------------------|-------------------|--------------|----------|-------------------|-------|
| RPT Date: Jun 25, 2019 | | | DUPLICATE | | | Method Blank | REFERENCE MATERIAL | | | METHOD BLANK SPIKE | | MATRIX SPIKE | | | |
| PARAMETER | Batch | Sample Id | Dup #1 | Dup #2 | RPD | | Measured Value | Acceptable Limits | | Recovery | Acceptable Limits | | Recovery | Acceptable Limits | |
| | | | | | | | | Lower | Upper | | Lower | Upper | | Lower | Upper |

O. Reg. 153(511) - Metals & Inorganics (Soil)

| | | | | | | | | | | | | | | | |
|---------------------------|--------|--|--------|--------|------|---------|------|-----|------|------|-----|------|------|-----|------|
| Antimony | 272447 | | <0.8 | <0.8 | NA | < 0.8 | 102% | 70% | 130% | 90% | 80% | 120% | 70% | 70% | 130% |
| Arsenic | 272447 | | 6 | 6 | 0.0% | < 1 | 100% | 70% | 130% | 103% | 80% | 120% | 104% | 70% | 130% |
| Barium | 272447 | | 61 | 61 | 0.0% | < 2 | 100% | 70% | 130% | 100% | 80% | 120% | 89% | 70% | 130% |
| Beryllium | 272447 | | 0.6 | 0.5 | NA | < 0.5 | 104% | 70% | 130% | 99% | 80% | 120% | 98% | 70% | 130% |
| Boron | 272447 | | <5 | <5 | NA | < 5 | 72% | 70% | 130% | 99% | 80% | 120% | 83% | 70% | 130% |
| Boron (Hot Water Soluble) | 272447 | | 1.13 | 1.13 | 0.0% | < 0.10 | 109% | 60% | 140% | 104% | 70% | 130% | 103% | 60% | 140% |
| Cadmium | 272447 | | <0.5 | <0.5 | NA | < 0.5 | 112% | 70% | 130% | 101% | 80% | 120% | 104% | 70% | 130% |
| Chromium | 272447 | | 16 | 17 | 6.1% | < 2 | 90% | 70% | 130% | 100% | 80% | 120% | 103% | 70% | 130% |
| Cobalt | 272447 | | 5.4 | 5.4 | 0.0% | < 0.5 | 99% | 70% | 130% | 103% | 80% | 120% | 103% | 70% | 130% |
| Copper | 272447 | | 22 | 22 | 0.0% | < 1 | 96% | 70% | 130% | 100% | 80% | 120% | 97% | 70% | 130% |
| Lead | 272447 | | 40 | 40 | 0.0% | < 1 | 96% | 70% | 130% | 94% | 80% | 120% | 99% | 70% | 130% |
| Molybdenum | 272447 | | 0.5 | 0.5 | NA | < 0.5 | 102% | 70% | 130% | 101% | 80% | 120% | 105% | 70% | 130% |
| Nickel | 272447 | | 12 | 13 | 8.0% | < 1 | 97% | 70% | 130% | 104% | 80% | 120% | 104% | 70% | 130% |
| Selenium | 272447 | | 0.6 | 0.6 | NA | < 0.4 | 95% | 70% | 130% | 100% | 80% | 120% | 101% | 70% | 130% |
| Silver | 272447 | | <0.2 | <0.2 | NA | < 0.2 | 95% | 70% | 130% | 99% | 80% | 120% | 98% | 70% | 130% |
| Thallium | 272447 | | <0.4 | <0.4 | NA | < 0.4 | 100% | 70% | 130% | 104% | 80% | 120% | 102% | 70% | 130% |
| Uranium | 272447 | | 0.7 | 0.7 | NA | < 0.5 | 100% | 70% | 130% | 102% | 80% | 120% | 102% | 70% | 130% |
| Vanadium | 272447 | | 24 | 24 | 0.0% | < 1 | 99% | 70% | 130% | 102% | 80% | 120% | 104% | 70% | 130% |
| Zinc | 272447 | | 146 | 147 | 0.7% | < 5 | 99% | 70% | 130% | 100% | 80% | 120% | 104% | 70% | 130% |
| Chromium VI | 276200 | | <0.2 | <0.2 | NA | < 0.2 | 106% | 70% | 130% | 94% | 80% | 120% | 83% | 70% | 130% |
| Cyanide | 267593 | | <0.040 | <0.040 | NA | < 0.040 | 90% | 70% | 130% | 101% | 80% | 120% | 101% | 70% | 130% |
| Mercury | 272447 | | <0.10 | <0.10 | NA | < 0.10 | 106% | 70% | 130% | 99% | 80% | 120% | 100% | 70% | 130% |
| Electrical Conductivity | 272447 | | 0.223 | 0.225 | 0.9% | < 0.005 | 101% | 90% | 110% | NA | | | NA | | |
| Sodium Adsorption Ratio | 272447 | | 0.115 | 0.115 | 0.0% | NA | NA | | | NA | | | NA | | |
| pH, 2:1 CaCl2 Extraction | 267591 | | 7.56 | 7.55 | 0.1% | NA | 100% | 80% | 120% | NA | | | NA | | |

Comments: NA signifies Not Applicable.

Duplicate Qualifier: As the measured result approaches the RL, the uncertainty associated with the value increases dramatically, thus duplicate acceptance limits apply only where the average of the two duplicates is greater than five times the RL

pH duplicates QA acceptance criteria was met relative as stated in Table 5-15 of Analytical Protocol document.

Certified By:



Quality Assurance

 CLIENT NAME: SNC LAVALIN INC
 PROJECT: City of Brampton - Phase II
 SAMPLING SITE:

 AGAT WORK ORDER: 19T479815
 ATTENTION TO: Robert Mitzakov
 SAMPLED BY:

Trace Organics Analysis

| RPT Date: Jun 25, 2019 | | | DUPLICATE | | | Method Blank | REFERENCE MATERIAL | | | METHOD BLANK SPIKE | | | MATRIX SPIKE | | |
|------------------------|-------|-----------|-----------|--------|-----|--------------|--------------------|-------------------|-------|--------------------|-------------------|-------|--------------|-------------------|-------|
| PARAMETER | Batch | Sample Id | Dup #1 | Dup #2 | RPD | | Measured Value | Acceptable Limits | | Recovery | Acceptable Limits | | Recovery | Acceptable Limits | |
| | | | | | | | | Lower | Upper | | Lower | Upper | | Lower | Upper |

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

| | | | | | | | | | | | | | | |
|-----------------|--------|------|------|----|------|------|-----|------|------|-----|------|------|-----|------|
| F1 (C6 to C10) | 274909 | < 5 | < 5 | NA | < 5 | 114% | 60% | 130% | 101% | 85% | 115% | 88% | 70% | 130% |
| F2 (C10 to C16) | 247073 | < 10 | < 10 | NA | < 10 | 102% | 60% | 130% | 107% | 80% | 120% | 86% | 70% | 130% |
| F3 (C16 to C34) | 247073 | < 50 | < 50 | NA | < 50 | 103% | 60% | 130% | 117% | 80% | 120% | 91% | 70% | 130% |
| F4 (C34 to C50) | 247073 | < 50 | < 50 | NA | < 50 | 94% | 60% | 130% | 119% | 80% | 120% | 118% | 70% | 130% |

O. Reg. 153(511) - VOCs (Soil)

| | | | | | | | | | | | | | | |
|-----------------------------|--------|--------|--------|----|--------|------|-----|------|------|-----|------|------|-----|------|
| Dichlorodifluoromethane | 270262 | < 0.05 | < 0.05 | NA | < 0.05 | 108% | 50% | 140% | 92% | 50% | 140% | 83% | 50% | 140% |
| Vinyl Chloride | 270262 | < 0.02 | < 0.02 | NA | < 0.02 | 90% | 50% | 140% | 91% | 50% | 140% | 106% | 50% | 140% |
| Bromomethane | 270262 | < 0.05 | < 0.05 | NA | < 0.05 | 96% | 50% | 140% | 104% | 50% | 140% | 116% | 50% | 140% |
| Trichlorofluoromethane | 270262 | < 0.05 | < 0.05 | NA | < 0.05 | 94% | 50% | 140% | 97% | 50% | 140% | 97% | 50% | 140% |
| Acetone | 270262 | < 0.50 | < 0.50 | NA | < 0.50 | 87% | 50% | 140% | 96% | 50% | 140% | 91% | 50% | 140% |
| 1,1-Dichloroethylene | 270262 | < 0.05 | < 0.05 | NA | < 0.05 | 102% | 50% | 140% | 97% | 60% | 130% | 83% | 50% | 140% |
| Methylene Chloride | 270262 | < 0.05 | < 0.05 | NA | < 0.05 | 99% | 50% | 140% | 97% | 60% | 130% | 89% | 50% | 140% |
| Trans- 1,2-Dichloroethylene | 270262 | < 0.05 | < 0.05 | NA | < 0.05 | 98% | 50% | 140% | 102% | 60% | 130% | 88% | 50% | 140% |
| Methyl tert-butyl Ether | 270262 | < 0.05 | < 0.05 | NA | < 0.05 | 78% | 50% | 140% | 82% | 60% | 130% | 112% | 50% | 140% |
| 1,1-Dichloroethane | 270262 | < 0.02 | < 0.02 | NA | < 0.02 | 97% | 50% | 140% | 95% | 60% | 130% | 83% | 50% | 140% |
| Methyl Ethyl Ketone | 270262 | < 0.50 | < 0.50 | NA | < 0.50 | 89% | 50% | 140% | 105% | 50% | 140% | 95% | 50% | 140% |
| Cis- 1,2-Dichloroethylene | 270262 | < 0.02 | < 0.02 | NA | < 0.02 | 98% | 50% | 140% | 97% | 60% | 130% | 105% | 50% | 140% |
| Chloroform | 270262 | < 0.04 | < 0.04 | NA | < 0.04 | 99% | 50% | 140% | 99% | 60% | 130% | 89% | 50% | 140% |
| 1,2-Dichloroethane | 270262 | < 0.03 | < 0.03 | NA | < 0.03 | 95% | 50% | 140% | 101% | 60% | 130% | 88% | 50% | 140% |
| 1,1,1-Trichloroethane | 270262 | < 0.05 | < 0.05 | NA | < 0.05 | 105% | 50% | 140% | 81% | 60% | 130% | 100% | 50% | 140% |
| Carbon Tetrachloride | 270262 | < 0.05 | < 0.05 | NA | < 0.05 | 84% | 50% | 140% | 91% | 60% | 130% | 93% | 50% | 140% |
| Benzene | 270262 | < 0.02 | < 0.02 | NA | < 0.02 | 100% | 50% | 140% | 105% | 60% | 130% | 93% | 50% | 140% |
| 1,2-Dichloropropane | 270262 | < 0.03 | < 0.03 | NA | < 0.03 | 89% | 50% | 140% | 97% | 60% | 130% | 80% | 50% | 140% |
| Trichloroethylene | 270262 | < 0.03 | < 0.03 | NA | < 0.03 | 92% | 50% | 140% | 98% | 60% | 130% | 86% | 50% | 140% |
| Bromodichloromethane | 270262 | < 0.05 | < 0.05 | NA | < 0.05 | 76% | 50% | 140% | 83% | 60% | 130% | 93% | 50% | 140% |
| Methyl Isobutyl Ketone | 270262 | < 0.50 | < 0.50 | NA | < 0.50 | 79% | 50% | 140% | 102% | 50% | 140% | 91% | 50% | 140% |
| 1,1,2-Trichloroethane | 270262 | < 0.04 | < 0.04 | NA | < 0.04 | 108% | 50% | 140% | 98% | 60% | 130% | 96% | 50% | 140% |
| Toluene | 270262 | < 0.05 | < 0.05 | NA | < 0.05 | 114% | 50% | 140% | 96% | 60% | 130% | 102% | 50% | 140% |
| Dibromochloromethane | 270262 | < 0.05 | < 0.05 | NA | < 0.05 | 112% | 50% | 140% | 84% | 60% | 130% | 92% | 50% | 140% |
| Ethylene Dibromide | 270262 | < 0.04 | < 0.04 | NA | < 0.04 | 93% | 50% | 140% | 96% | 60% | 130% | 82% | 50% | 140% |
| Tetrachloroethylene | 270262 | < 0.05 | < 0.05 | NA | < 0.05 | 105% | 50% | 140% | 106% | 60% | 130% | 95% | 50% | 140% |
| 1,1,1,2-Tetrachloroethane | 270262 | < 0.04 | < 0.04 | NA | < 0.04 | 75% | 50% | 140% | 82% | 60% | 130% | 93% | 50% | 140% |
| Chlorobenzene | 270262 | < 0.05 | < 0.05 | NA | < 0.05 | 112% | 50% | 140% | 100% | 60% | 130% | 105% | 50% | 140% |
| Ethylbenzene | 270262 | < 0.05 | < 0.05 | NA | < 0.05 | 112% | 50% | 140% | 97% | 60% | 130% | 105% | 50% | 140% |
| m & p-Xylene | 270262 | < 0.05 | < 0.05 | NA | < 0.05 | 115% | 50% | 140% | 73% | 60% | 130% | 109% | 50% | 140% |
| Bromoform | 270262 | < 0.05 | < 0.05 | NA | < 0.05 | 86% | 50% | 140% | 112% | 60% | 130% | 112% | 50% | 140% |
| Styrene | 270262 | < 0.05 | < 0.05 | NA | < 0.05 | 82% | 50% | 140% | 102% | 60% | 130% | 106% | 50% | 140% |
| 1,1,2,2-Tetrachloroethane | 270262 | < 0.05 | < 0.05 | NA | < 0.05 | 112% | 50% | 140% | 102% | 60% | 130% | 96% | 50% | 140% |
| o-Xylene | 270262 | < 0.05 | < 0.05 | NA | < 0.05 | 119% | 50% | 140% | 113% | 60% | 130% | 114% | 50% | 140% |

Quality Assurance

CLIENT NAME: SNC LAVALIN INC
 PROJECT: City of Brampton - Phase II
 SAMPLING SITE:

AGAT WORK ORDER: 19T479815
 ATTENTION TO: Robert Mitzakov
 SAMPLED BY:

Trace Organics Analysis (Continued)

| RPT Date: Jun 25, 2019 | | | DUPLICATE | | | Method Blank | REFERENCE MATERIAL | | | METHOD BLANK SPIKE | | | MATRIX SPIKE | | |
|---|--------|-----------|-----------|---------|-----|--------------|--------------------|-------------------|-------|--------------------|-------------------|-------|--------------|-------------------|-------|
| PARAMETER | Batch | Sample Id | Dup #1 | Dup #2 | RPD | | Measured Value | Acceptable Limits | | Recovery | Acceptable Limits | | Recovery | Acceptable Limits | |
| | | | | | | | | Lower | Upper | | Lower | Upper | | Lower | Upper |
| 1,3-Dichlorobenzene | 270262 | | < 0.05 | < 0.05 | NA | < 0.05 | 100% | 50% | 140% | 108% | 60% | 130% | 98% | 50% | 140% |
| 1,4-Dichlorobenzene | 270262 | | < 0.05 | < 0.05 | NA | < 0.05 | 91% | 50% | 140% | 109% | 60% | 130% | 95% | 50% | 140% |
| 1,2-Dichlorobenzene | 270262 | | < 0.05 | < 0.05 | NA | < 0.05 | 95% | 50% | 140% | 102% | 60% | 130% | 93% | 50% | 140% |
| 1,3-Dichloropropene | 270262 | | < 0.04 | < 0.04 | NA | < 0.04 | 101% | 50% | 140% | 83% | 60% | 130% | 103% | 50% | 140% |
| n-Hexane | 270262 | | < 0.05 | < 0.05 | NA | < 0.05 | 102% | 50% | 140% | 86% | 60% | 130% | 102% | 50% | 140% |
| O. Reg. 153(511) - PAHs (Soil) | | | | | | | | | | | | | | | |
| Naphthalene | 267783 | | < 0.05 | < 0.05 | NA | < 0.05 | 93% | 50% | 140% | 65% | 50% | 140% | 73% | 50% | 140% |
| Acenaphthylene | 267783 | | < 0.05 | < 0.05 | NA | < 0.05 | 106% | 50% | 140% | 65% | 50% | 140% | 70% | 50% | 140% |
| Acenaphthene | 267783 | | < 0.05 | < 0.05 | NA | < 0.05 | 106% | 50% | 140% | 62% | 50% | 140% | 72% | 50% | 140% |
| Fluorene | 267783 | | < 0.05 | < 0.05 | NA | < 0.05 | 108% | 50% | 140% | 65% | 50% | 140% | 74% | 50% | 140% |
| Phenanthrene | 267783 | | < 0.05 | < 0.05 | NA | < 0.05 | 114% | 50% | 140% | 74% | 50% | 140% | 74% | 50% | 140% |
| Anthracene | 267783 | | < 0.05 | < 0.05 | NA | < 0.05 | 115% | 50% | 140% | 76% | 50% | 140% | 79% | 50% | 140% |
| Fluoranthene | 267783 | | < 0.05 | < 0.05 | NA | < 0.05 | 118% | 50% | 140% | 79% | 50% | 140% | 94% | 50% | 140% |
| Pyrene | 267783 | | < 0.05 | < 0.05 | NA | < 0.05 | 117% | 50% | 140% | 81% | 50% | 140% | 95% | 50% | 140% |
| Benz(a)anthracene | 267783 | | < 0.05 | < 0.05 | NA | < 0.05 | 113% | 50% | 140% | 86% | 50% | 140% | 104% | 50% | 140% |
| Chrysene | 267783 | | < 0.05 | < 0.05 | NA | < 0.05 | 119% | 50% | 140% | 95% | 50% | 140% | 102% | 50% | 140% |
| Benzo(b)fluoranthene | 267783 | | < 0.05 | < 0.05 | NA | < 0.05 | 97% | 50% | 140% | 78% | 50% | 140% | 73% | 50% | 140% |
| Benzo(k)fluoranthene | 267783 | | < 0.05 | < 0.05 | NA | < 0.05 | 107% | 50% | 140% | 69% | 50% | 140% | 66% | 50% | 140% |
| Benzo(a)pyrene | 267783 | | < 0.05 | < 0.05 | NA | < 0.05 | 116% | 50% | 140% | 68% | 50% | 140% | 68% | 50% | 140% |
| Indeno(1,2,3-cd)pyrene | 267783 | | < 0.05 | < 0.05 | NA | < 0.05 | 111% | 50% | 140% | 62% | 50% | 140% | 66% | 50% | 140% |
| Dibenz(a,h)anthracene | 267783 | | < 0.05 | < 0.05 | NA | < 0.05 | 116% | 50% | 140% | 72% | 50% | 140% | 70% | 50% | 140% |
| Benzo(g,h,i)perylene | 267783 | | < 0.05 | < 0.05 | NA | < 0.05 | 111% | 50% | 140% | 63% | 50% | 140% | 64% | 50% | 140% |
| O. Reg. 153(511) - OC Pesticides (Soil) | | | | | | | | | | | | | | | |
| Hexachloroethane | 268265 | | < 0.01 | < 0.01 | NA | < 0.01 | 91% | 50% | 140% | 84% | 50% | 140% | 96% | 50% | 140% |
| Gamma-Hexachlorocyclohexane | 268265 | | < 0.005 | < 0.005 | NA | < 0.005 | 86% | 50% | 140% | 93% | 50% | 140% | 86% | 50% | 140% |
| Heptachlor | 268265 | | < 0.005 | < 0.005 | NA | < 0.005 | 82% | 50% | 140% | 95% | 50% | 140% | 80% | 50% | 140% |
| Aldrin | 268265 | | < 0.005 | < 0.005 | NA | < 0.005 | 87% | 50% | 140% | 94% | 50% | 140% | 87% | 50% | 140% |
| Heptachlor Epoxide | 268265 | | < 0.005 | < 0.005 | NA | < 0.005 | 90% | 50% | 140% | 94% | 50% | 140% | 89% | 50% | 140% |
| Endosulfan | 268265 | | < 0.005 | < 0.005 | NA | < 0.005 | 93% | 50% | 140% | 94% | 50% | 140% | 96% | 50% | 140% |
| Chlordane | 268265 | | < 0.007 | < 0.007 | NA | < 0.007 | 92% | 50% | 140% | 89% | 50% | 140% | 90% | 50% | 140% |
| DDE | 268265 | | < 0.007 | < 0.007 | NA | < 0.007 | 97% | 50% | 140% | 86% | 50% | 140% | 83% | 50% | 140% |
| DDD | 268265 | | < 0.007 | < 0.007 | NA | < 0.007 | 97% | 50% | 140% | 84% | 50% | 140% | 83% | 50% | 140% |
| DDT | 268265 | | < 0.007 | < 0.007 | NA | < 0.007 | 90% | 50% | 140% | 86% | 50% | 140% | 83% | 50% | 140% |
| Dieldrin | 268265 | | < 0.005 | < 0.005 | NA | < 0.005 | 91% | 50% | 140% | 88% | 50% | 140% | 84% | 50% | 140% |
| Endrin | 268265 | | < 0.005 | < 0.005 | NA | < 0.005 | 88% | 50% | 140% | 93% | 50% | 140% | 90% | 50% | 140% |
| Methoxychlor | 268265 | | < 0.005 | < 0.005 | NA | < 0.005 | 93% | 50% | 140% | 103% | 50% | 140% | 91% | 50% | 140% |
| Hexachlorobenzene | 268265 | | < 0.005 | < 0.005 | NA | < 0.005 | 94% | 50% | 140% | 98% | 50% | 140% | 96% | 50% | 140% |
| Hexachlorobutadiene | 268265 | | < 0.01 | < 0.01 | NA | < 0.01 | 96% | 50% | 140% | 89% | 50% | 140% | 82% | 50% | 140% |

Quality Assurance

 CLIENT NAME: SNC LAVALIN INC
 PROJECT: City of Brampton - Phase II
 SAMPLING SITE:

 AGAT WORK ORDER: 19T479815
 ATTENTION TO: Robert Mitzakov
 SAMPLED BY:

Trace Organics Analysis (Continued)

| RPT Date: Jun 25, 2019 | | | DUPLICATE | | | Method Blank | REFERENCE MATERIAL | | | METHOD BLANK SPIKE | | | MATRIX SPIKE | | |
|---------------------------------------|--------|-----------|-----------|--------|-----|--------------|--------------------|-------------------|-------|--------------------|-------------------|-------|--------------|-------------------|-------|
| PARAMETER | Batch | Sample Id | Dup #1 | Dup #2 | RPD | | Measured Value | Acceptable Limits | | Recovery | Acceptable Limits | | Recovery | Acceptable Limits | |
| | | | | | | | | Lower | Upper | | Lower | Upper | | Lower | Upper |
| Phenoxy Acid Herbicides (Soil) | | | | | | | | | | | | | | | |
| 2,4-D | 268398 | | < 0.10 | < 0.10 | NA | < 0.10 | 100% | 50% | 130% | 98% | 50% | 130% | 100% | 50% | 130% |
| 2,4,5-T | 268398 | | < 0.10 | < 0.10 | NA | < 0.10 | 90% | 50% | 130% | 90% | 50% | 130% | 92% | 50% | 130% |
| 2,4,5-TP (Silvex) | 268398 | | < 0.10 | < 0.10 | NA | < 0.10 | 92% | 50% | 130% | 85% | 50% | 130% | 70% | 50% | 130% |
| Dicamba | 268398 | | < 0.10 | < 0.10 | NA | < 0.10 | 97% | 50% | 130% | 86% | 50% | 130% | 76% | 50% | 130% |
| Dichlorprop | 268398 | | < 0.10 | < 0.10 | NA | < 0.10 | 102% | 50% | 130% | 90% | 50% | 130% | 80% | 50% | 130% |
| Dinoseb | 268398 | | < 0.10 | < 0.10 | NA | < 0.10 | 75% | 50% | 130% | 65% | 50% | 130% | 63% | 50% | 130% |
| Picloram | 268398 | | < 0.10 | < 0.10 | NA | < 0.10 | 103% | 50% | 130% | 80% | 50% | 130% | 64% | 50% | 130% |
| Diclofop-methyl | 268398 | | < 0.10 | < 0.10 | NA | < 0.10 | 105% | 50% | 130% | 101% | 50% | 130% | 95% | 50% | 130% |
| 2,3,4,6-Tetrachlorophenol | 268398 | | < 0.05 | < 0.05 | NA | < 0.05 | 117% | 50% | 130% | 101% | 50% | 130% | 97% | 50% | 130% |
| 2,4-Dichlorophenol | 268398 | | < 0.05 | < 0.05 | NA | < 0.05 | 99% | 50% | 130% | 90% | 50% | 130% | 74% | 50% | 130% |
| 2,4,5-Trichlorophenol | 268398 | | < 0.05 | < 0.05 | NA | < 0.05 | 90% | 50% | 130% | 85% | 50% | 130% | 70% | 50% | 130% |
| 2,4,6-Trichlorophenol | 268398 | | < 0.05 | < 0.05 | NA | < 0.05 | 111% | 50% | 130% | 101% | 50% | 130% | 97% | 50% | 130% |
| Bromoxynil | 268398 | | < 0.5 | < 0.5 | NA | < 0.5 | 98% | 60% | 130% | 95% | 60% | 130% | 94% | 60% | 130% |
| MCPP (Mecoprop) | 268398 | | < 1.0 | < 1.0 | NA | < 1.0 | NA | 50% | 130% | 100% | 50% | 130% | 80% | 50% | 130% |
| MCPA | 268398 | | < 1.0 | < 1.0 | NA | < 1.0 | NA | 50% | 130% | 98% | 50% | 130% | 90% | 50% | 130% |
| Pentachlorophenol | 268398 | | < 0.05 | < 0.05 | NA | < 0.05 | 94% | 50% | 130% | 90% | 50% | 130% | 80% | 50% | 130% |

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).

Certified By: _____





Method Summary

CLIENT NAME: SNC LAVALIN INC
 PROJECT: City of Brampton - Phase II
 SAMPLING SITE:

AGAT WORK ORDER: 19T479815
 ATTENTION TO: Robert Mitzakov
 SAMPLED BY:

| PARAMETER | AGAT S.O.P | LITERATURE REFERENCE | ANALYTICAL TECHNIQUE |
|---------------------------|--------------|---|-------------------------|
| Soil Analysis | | | |
| Antimony | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Arsenic | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Barium | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Beryllium | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Boron | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Boron (Hot Water Soluble) | MET-93-6104 | EPA SW 846 6010C; MSA, Part 3, Ch.21 | ICP/OES |
| Cadmium | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Chromium | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Cobalt | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Copper | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Lead | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Molybdenum | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Nickel | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Selenium | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Silver | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Thallium | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Uranium | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Vanadium | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Zinc | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Chromium VI | INOR-93-6029 | SM 3500 B; MSA Part 3, Ch. 25 | SPECTROPHOTOMETER |
| Cyanide | INOR-93-6052 | MOE CN-3015 & E 3009 A; SM 4500 CN | TECHNICON AUTO ANALYZER |
| Mercury | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Electrical Conductivity | INOR-93-6036 | McKeague 4.12, SM 2510 B | EC METER |
| Sodium Adsorption Ratio | INOR-93-6007 | McKeague 4.12 & 3.26 & EPA SW-846 6010C | ICP/OES |
| pH, 2:1 CaCl2 Extraction | INOR-93-6031 | MSA part 3 & SM 4500-H+ B | PH METER |

Method Summary

 CLIENT NAME: SNC LAVALIN INC
 PROJECT: City of Brampton - Phase II
 SAMPLING SITE:

 AGAT WORK ORDER: 19T479815
 ATTENTION TO: Robert Mitzakov
 SAMPLED BY:

| PARAMETER | AGAT S.O.P | LITERATURE REFERENCE | ANALYTICAL TECHNIQUE |
|--------------------------------|-------------|--------------------------------|----------------------|
| Trace Organics Analysis | | | |
| Hexachloroethane | ORG-91-5113 | EPA SW-846 3541,3620 & 8081 | GC/ECD |
| Gamma-Hexachlorocyclohexane | ORG-91-5113 | EPA SW-846 3541,3620 & 8081 | GC/ECD |
| Heptachlor | ORG-91-5113 | EPA SW-846 3541,3620 & 8081 | GC/ECD |
| Aldrin | ORG-91-5113 | EPA SW-846 3541,3620 & 8081 | GC/ECD |
| Heptachlor Epoxide | ORG-91-5113 | EPA SW-846 3541,3620 & 8081 | GC/ECD |
| Endosulfan | ORG-91-5113 | EPA SW-846 3541,3620 & 8081 | GC/ECD |
| Chlordane | ORG-91-5113 | EPA SW-846 3541,3620 & 8081 | GC/ECD |
| DDE | ORG-91-5113 | EPA SW-846 3541,3620 & 8081 | GC/ECD |
| DDD | ORG-91-5113 | EPA SW-846 3541,3620 & 8081 | GC/ECD |
| DDT | ORG-91-5113 | EPA SW-846 3541,3620 & 8081 | GC/ECD |
| Dieldrin | ORG-91-5113 | EPA SW-846 3541,3620 & 8081 | GC/ECD |
| Endrin | ORG-91-5113 | EPA SW-846 3541,3620 & 8081 | GC/ECD |
| Methoxychlor | ORG-91-5113 | EPA SW-846 3541,3620 & 8081 | GC/ECD |
| Hexachlorobenzene | ORG-91-5113 | EPA SW-846 3541,3620 & 8081 | GC/ECD |
| Hexachlorobutadiene | ORG-91-5113 | EPA SW-846 3541,3620 & 8081 | GC/ECD |
| TCMX | ORG-91-5112 | EPA SW-846 3541,3620 & 8081 | GC/ECD |
| Decachlorobiphenyl | ORG-91-5113 | EPA SW-846 3541,3620 & 8081 | GC/ECD |
| Moisture Content | | MOE E3139 | BALANCE |
| Naphthalene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Acenaphthylene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Acenaphthene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Fluorene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Phenanthrene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Anthracene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Fluoranthene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Pyrene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Benz(a)anthracene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Chrysene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Benzo(b)fluoranthene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Benzo(k)fluoranthene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Benzo(a)pyrene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Indeno(1,2,3-cd)pyrene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Dibenz(a,h)anthracene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Benzo(g,h,i)perylene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| 2-and 1-methyl Naphthalene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Chrysene-d12 | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| F1 (C6 to C10) | VOL-91-5009 | CCME Tier 1 Method, SW846 5035 | P&T GC/FID |
| F1 (C6 to C10) minus BTEX | VOL-91-5009 | CCME Tier 1 Method, SW846 5035 | P&T GC/FID |
| F2 (C10 to C16) | VOL-91-5009 | CCME Tier 1 Method | GC/FID |
| F3 (C16 to C34) | VOL-91-5009 | CCME Tier 1 Method | GC/FID |
| F4 (C34 to C50) | VOL-91-5009 | CCME Tier 1 Method | GC/FID |
| Gravimetric Heavy Hydrocarbons | VOL-91-5009 | CCME Tier 1 Method | BALANCE |
| Moisture Content | VOL-91-5009 | CCME Tier 1 Method | BALANCE |
| Terphenyl | VOL-91-5009 | CCME Tier 1 Method | GC/FID |
| 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 |

Method Summary

 CLIENT NAME: SNC LAVALIN INC
 PROJECT: City of Brampton - Phase II
 SAMPLING SITE:

 AGAT WORK ORDER: 19T479815
 ATTENTION TO: Robert Mitzakov
 SAMPLED BY:

| PARAMETER | AGAT S.O.P | LITERATURE REFERENCE | ANALYTICAL TECHNIQUE |
|-----------------------------|-------------|-------------------------|----------------------|
| 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 | EPA SW-846 5035 & 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 |
| 1,1,1,2,2-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 |
| Xylene Mixture | VOL-91-5002 | EPA SW-846 5035 & 8260D | (P&T)GC/MS |
| 1,3-Dichloropropene | 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 | EPA SW-846 5035 & 8260D | (P&T)GC/MS |
| 4-Bromofluorobenzene | VOL-91-5002 | EPA SW-846 5035 & 8260D | (P&T)GC/MS |
| 2,4-D | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| 2,4,5-T | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| 2,4,5-TP (Silvex) | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| Dicamba | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| Dichloroprop | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| Dinoseb | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| Picloram | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| Diclofop-methyl | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| 2,3,4,6-Tetrachlorophenol | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| 2,4-Dichlorophenol | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| 2,4,5-Trichlorophenol | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| 2,4,6-Trichlorophenol | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| Bromoxynil | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |



Method Summary

CLIENT NAME: SNC LAVALIN INC

AGAT WORK ORDER: 19T479815

PROJECT: City of Brampton - Phase II

ATTENTION TO: Robert Mitzakov

SAMPLING SITE:

SAMPLED BY:

| PARAMETER | AGAT S.O.P | LITERATURE REFERENCE | ANALYTICAL TECHNIQUE |
|-------------------|-------------|----------------------|----------------------|
| MCPP (Mecoprop) | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| MCPA | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| Pentachlorophenol | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| DCAA | ORG-91-5110 | EPA SW-846 8151 | GC/ECD |
| Phenoxy Extr | | | N/A |



Laboratory Use Only

Work Order #: 19T479815
Cooler Quantity: 1 Blk (ice)
Arrival Temperatures: 2.7 13.6 12.8
(ice)
Custody Seal Intact: Yes No N/A
Notes:

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: SNC-Lavalin Inc
Contact: 195 The West Mall, Toronto, ON
Address: M9C 5K1
Phone: 416 635 5882 Ext 55845
Reports to be sent to:
1. Email: Rohit.Hatkarou@snc-lavalin.com
2. Email: Abed.Yassine@snc-lavalin.com

Regulatory Requirements: No Regulatory Requirement

(Please check all applicable boxes)

Regulation 153/04 Sewer Use Regulation 558
 Ind/Com Sanitary CCME
 Res/Park Storm Prov. Water Quality Objectives (PWQO)
 Agriculture Other
Soil Texture (Check One) Region: _____
 Coarse Fine MISA _____
Indicate One

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):

Project Information:

Project: City of Brampton - Phase II
Site Location: 10192 Highway 50, Brampton, ON
Sampled By: Joey Reston
AGAT Quote #: _____ PO: 665125
Please note: If quotation number is not provided, client will be billed full price for analysis.

Is this submission for a Record of Site Condition?

Yes No

Report Guideline on Certificate of Analysis

Yes No

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

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

Invoice Information:

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

Sample Matrix Legend

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

Field Filtered - Metals, Hg, CrVI

| Metals and Inorganics | O. Reg 153 | Field Filtered - Metals, Hg, CrVI | Potentially Hazardous or High Concentration (Y/N) |
|---|-----------------|-----------------------------------|---|
| All Metals <input type="checkbox"/> 153 Metals (excl. Hydrides) | | | |
| Hydride Metals <input type="checkbox"/> 153 Metals (incl. Hydrides) | | | |
| ORPs: <input type="checkbox"/> B-HWS <input type="checkbox"/> Cl <input type="checkbox"/> CN | | | |
| <input type="checkbox"/> Cr ⁶⁺ <input type="checkbox"/> EC <input type="checkbox"/> FOC <input type="checkbox"/> Hg | | | |
| <input type="checkbox"/> pH <input type="checkbox"/> SAR | | | |
| Full Metals Scan | | | |
| Regulation/Custom Metals | | | |
| Nutrients: <input type="checkbox"/> TP <input type="checkbox"/> NH ₄ <input type="checkbox"/> TKN | | | |
| <input type="checkbox"/> NO ₃ <input type="checkbox"/> NO ₂ <input type="checkbox"/> NO ₃ +NO ₂ | | | |
| Volatiles: <input type="checkbox"/> VOC <input type="checkbox"/> BTEX <input type="checkbox"/> THM | | | |
| PHCs Fl - F4 | <u>3, VOC's</u> | | |
| ABNS | | | |
| PAHS | | | |
| PCBs: <input type="checkbox"/> Total <input type="checkbox"/> Aroclors | | | |
| Organochlorine Pesticides | | | |
| TCLP: <input type="checkbox"/> M&I <input type="checkbox"/> VOCs <input type="checkbox"/> ABNS <input type="checkbox"/> B(a)P <input type="checkbox"/> PCBs | | | |
| Sewer Use <u>Y53</u> | | | |
| <u>ORP</u> | | | |
| <u>Metals/Inorganics</u> | | | |
| <u>SA</u> | | | |
| <u>Conductivity</u> | | | |
| <u>Hydroxides/Pesticide</u> | | | |

| Sample Identification | Date Sampled | Time Sampled | # of Containers | Sample Matrix | Comments/Special Instructions | Y / N |
|-----------------------|-------------------|--------------|-----------------|---------------|-------------------------------|-------|
| <u>BH35-03</u> | <u>June 12/19</u> | <u>8:50</u> | <u>1</u> | <u>Soil</u> | <u>Limited Recovery</u> | |
| <u>BH35-07</u> | <u>↓</u> | <u>9:40</u> | <u>2</u> | <u>Soil</u> | | |
| <u>BH22-03A</u> | <u>↓</u> | <u>12:10</u> | <u>2</u> | <u>Soil</u> | | |
| <u>BH22-08A</u> | <u>↓</u> | <u>13:45</u> | <u>2</u> | <u>Soil</u> | | |
| <u>BH22-03</u> | <u>↓</u> | <u>16:45</u> | <u>2</u> | <u>Soil</u> | | |

| | | | | | | |
|---|-------------------------|--------------------|---|-------------------------|----------------------|---------------------|
| Samples Relinquished By (Print Name and Sign): <u>Joey Reston</u> | Date: <u>June 12/19</u> | Time: <u>17:00</u> | Samples Received By (Print Name and Sign): <u>Neil R. Amnoraigh</u> | Date: <u>June 12/19</u> | Time: <u>6:52 PM</u> | Page _____ of _____ |
| Samples Relinquished By (Print Name and Sign): | Date: | Time: | Samples Received By (Print Name and Sign): | Date: | Time: | No: T 090357 |



CLIENT NAME: SNC LAVALIN INC
235 LESMILL ROAD
TORONTO, ON M3B 2V1
(416) 679-6000

ATTENTION TO: Robert Mitzakov

PROJECT: City of Brampton Phase 2 ESA

AGAT WORK ORDER: 19T483045

SOIL ANALYSIS REVIEWED BY: Amanjot Bhela, Inorganic Supervisor

TRACE ORGANICS REVIEWED BY: Neli Popnikolova, Senior Chemist

DATE REPORTED: Jun 28, 2019

PAGES (INCLUDING COVER): 24

VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (905) 712-5100

*NOTES

All samples will be disposed of within 30 days following analysis. Please contact the lab if you require additional sample storage time.



Certificate of Analysis

AGAT WORK ORDER: 19T483045

PROJECT: City of Brampton Phase 2 ESA

5835 COOPERS AVENUE
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FAX (905)712-5122
<http://www.agatlabs.com>

CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Robert Mitzakov

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - Metals & Inorganics (Soil)

DATE RECEIVED: 2019-06-21

DATE REPORTED: 2019-06-28

| Parameter | Unit | SAMPLE DESCRIPTION: | | BH33-2 | BH33-22 |
|---------------------------|----------|---------------------|-------|------------|------------|
| | | SAMPLE TYPE: | | Soil | Soil |
| | | DATE SAMPLED: | | 2019-06-19 | 2019-06-19 |
| | | G / S | RDL | 294685 | 294693 |
| Antimony | µg/g | 1.3 | 0.8 | <0.8 | <0.8 |
| Arsenic | µg/g | 18 | 1 | 4 | 4 |
| Barium | µg/g | 220 | 2 | 81 | 98 |
| Beryllium | µg/g | 2.5 | 0.5 | <0.5 | 0.5 |
| Boron | µg/g | 36 | 5 | 7 | 8 |
| Boron (Hot Water Soluble) | µg/g | 1.5 | 0.10 | <0.10 | <0.10 |
| Cadmium | µg/g | 1.2 | 0.5 | <0.5 | <0.5 |
| Chromium | µg/g | 70 | 2 | 19 | 22 |
| Cobalt | µg/g | 22 | 0.5 | 9.1 | 10.0 |
| Copper | µg/g | 92 | 1 | 18 | 18 |
| Lead | µg/g | 120 | 1 | 8 | 9 |
| Molybdenum | µg/g | 2 | 0.5 | <0.5 | <0.5 |
| Nickel | µg/g | 82 | 1 | 21 | 24 |
| Selenium | µg/g | 1.5 | 0.4 | <0.4 | <0.4 |
| Silver | µg/g | 0.5 | 0.2 | <0.2 | <0.2 |
| Thallium | µg/g | 1 | 0.4 | <0.4 | <0.4 |
| Uranium | µg/g | 2.5 | 0.5 | <0.5 | <0.5 |
| Vanadium | µg/g | 86 | 1 | 29 | 31 |
| Zinc | µg/g | 290 | 5 | 46 | 46 |
| Chromium VI | µg/g | 0.66 | 0.2 | <0.2 | <0.2 |
| Cyanide | µg/g | 0.051 | 0.040 | <0.040 | <0.040 |
| Mercury | µg/g | 0.27 | 0.10 | <0.10 | <0.10 |
| Electrical Conductivity | mS/cm | 0.7 | 0.005 | 0.183 | 0.191 |
| Sodium Adsorption Ratio | NA | 5 | NA | 0.451 | 0.455 |
| pH, 2:1 CaCl2 Extraction | pH Units | | NA | 7.75 | 7.62 |

Certified By:

Anamjot Bhela




AGAT Laboratories

Certificate of Analysis

AGAT WORK ORDER: 19T483045

PROJECT: City of Brampton Phase 2 ESA

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CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Robert Mitzakov

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - Metals & Inorganics (Soil)

DATE RECEIVED: 2019-06-21

DATE REPORTED: 2019-06-28

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 9: Generic Site Condition Standards for Use within 30 m of a Water Body in a Non-Potable Ground Water Condition - 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.
294685-294693 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:

Anamjot Bhela




Certificate of Analysis

AGAT WORK ORDER: 19T483045

PROJECT: City of Brampton Phase 2 ESA

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CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Robert Mitzakov

SAMPLING SITE:

SAMPLED BY:

O. Reg. 558 Metals and Inorganics

DATE RECEIVED: 2019-06-21

DATE REPORTED: 2019-06-28

| | | SAMPLE DESCRIPTION: | | COMP-1 |
|-----------------------------------|------|---------------------|-------|------------|
| | | SAMPLE TYPE: | | Soil |
| | | DATE SAMPLED: | | 2019-06-19 |
| Parameter | Unit | G / S | RDL | 294734 |
| Arsenic Leachate | mg/L | 2.5 | 0.010 | <0.010 |
| Barium Leachate | mg/L | 100 | 0.100 | 0.524 |
| Boron Leachate | mg/L | 500 | 0.050 | 0.057 |
| Cadmium Leachate | mg/L | 0.5 | 0.010 | <0.010 |
| Chromium Leachate | mg/L | 5 | 0.010 | <0.010 |
| 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 |
| Fluoride Leachate | mg/L | 150 | 0.05 | 0.24 |
| Cyanide Leachate | mg/L | 20 | 0.05 | <0.05 |
| (Nitrate + Nitrite) as N Leachate | mg/L | 1000 | 0.70 | <0.70 |

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:





Certificate of Analysis

AGAT WORK ORDER: 19T483045

PROJECT: City of Brampton Phase 2 ESA

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<http://www.agatlabs.com>

CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Robert Mitzakov

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - OC Pesticides (Soil)

DATE RECEIVED: 2019-06-21

DATE REPORTED: 2019-06-28

| SAMPLE DESCRIPTION: | | BH33-3 | | |
|-----------------------------|------|-------------------|-------|--------|
| SAMPLE TYPE: | | Soil | | |
| DATE SAMPLED: | | 2019-06-19 | | |
| Parameter | Unit | G / S | RDL | 294694 |
| Hexachloroethane | µg/g | 0.01 | 0.01 | <0.01 |
| Gamma-Hexachlorocyclohexane | µg/g | 0.01 | 0.005 | <0.005 |
| Heptachlor | µg/g | 0.05 | 0.005 | <0.005 |
| Aldrin | µg/g | 0.05 | 0.005 | <0.005 |
| Heptachlor Epoxide | µg/g | 0.05 | 0.005 | <0.005 |
| Endosulfan | µg/g | 0.04 | 0.005 | <0.005 |
| Chlordane | µg/g | 0.05 | 0.007 | <0.007 |
| DDE | µg/g | 0.05 | 0.007 | <0.007 |
| DDD | µg/g | 0.05 | 0.007 | <0.007 |
| DDT | µg/g | 1.4 | 0.007 | <0.007 |
| Dieldrin | µg/g | 0.05 | 0.005 | <0.005 |
| Endrin | µg/g | 0.04 | 0.005 | <0.005 |
| Methoxychlor | µg/g | 0.05 | 0.005 | <0.005 |
| Hexachlorobenzene | µg/g | 0.02 | 0.005 | <0.005 |
| Hexachlorobutadiene | µg/g | 0.01 | 0.01 | <0.01 |
| Moisture Content | % | | 0.1 | 13.9 |
| Surrogate | Unit | Acceptable Limits | | |
| TCMX | % | 50-140 | | 70 |
| Decachlorobiphenyl | % | 60-130 | | 78 |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 9: Generic Site Condition Standards for Use within 30 m of a Water Body in a Non-Potable Ground Water Condition - 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.

294694 Results are based on the dry weight of the soil.
DDT total is a calculated parameter. The calculated value is the sum of op/DDT and pp/DDT.
DDD total is a calculated parameter. The calculated value is the sum of op/DDD and pp/DDD.
DDE total is a calculated parameter. The calculated value is the sum of op/DDE and pp/DDE.
Endosulfan total is a calculated parameter. The calculated value is the sum of Endosulfan I and Endosulfan II.
Chlordane total is a calculated parameter. The calculated value is the sum of Alpha-Chlordane and Gamma-Chlordane.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 19T483045

PROJECT: City of Brampton Phase 2 ESA

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CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Robert Mitzakov

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - PAHs (Soil)

DATE RECEIVED: 2019-06-21

DATE REPORTED: 2019-06-28

| | | SAMPLE DESCRIPTION: | | BH33-3 | |
|----------------------------|------|---------------------|------|------------|--|
| | | SAMPLE TYPE: | | Soil | |
| | | DATE SAMPLED: | | 2019-06-19 | |
| Parameter | Unit | G / S | RDL | 294694 | |
| Naphthalene | µg/g | 0.09 | 0.05 | <0.05 | |
| Acenaphthylene | µg/g | 0.093 | 0.05 | <0.05 | |
| Acenaphthene | µg/g | 0.072 | 0.05 | <0.05 | |
| Fluorene | µg/g | 0.19 | 0.05 | <0.05 | |
| Phenanthrene | µg/g | 0.69 | 0.05 | <0.05 | |
| Anthracene | µg/g | 0.22 | 0.05 | <0.05 | |
| Fluoranthene | µg/g | 0.69 | 0.05 | <0.05 | |
| Pyrene | µg/g | 1 | 0.05 | <0.05 | |
| Benz(a)anthracene | µg/g | 0.36 | 0.05 | <0.05 | |
| Chrysene | µg/g | 2.8 | 0.05 | <0.05 | |
| Benzo(b)fluoranthene | µg/g | 0.47 | 0.05 | <0.05 | |
| Benzo(k)fluoranthene | µg/g | 0.48 | 0.05 | <0.05 | |
| Benzo(a)pyrene | µg/g | 0.3 | 0.05 | <0.05 | |
| Indeno(1,2,3-cd)pyrene | µg/g | 0.23 | 0.05 | <0.05 | |
| Dibenz(a,h)anthracene | µg/g | 0.1 | 0.05 | <0.05 | |
| Benzo(g,h,i)perylene | µg/g | 0.68 | 0.05 | <0.05 | |
| 2-and 1-methyl Naphthalene | µg/g | 0.59 | 0.05 | <0.05 | |
| Surrogate | Unit | Acceptable Limits | | | |
| Chrysene-d12 | % | 50-140 | 73 | | |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 9: Generic Site Condition Standards for Use within 30 m of a Water Body in a Non-Potable Ground Water Condition - 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.

294694 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:



Certificate of Analysis

AGAT WORK ORDER: 19T483045

PROJECT: City of Brampton Phase 2 ESA

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<http://www.agatlabs.com>

CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Robert Mitzakov

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2019-06-21

DATE REPORTED: 2019-06-28

| Parameter | Unit | SAMPLE DESCRIPTION: | | BH33-7 | BH33-77 |
|--------------------------------|------|---------------------|-----|--------|---------|
| | | G / S | RDL | 294696 | 294732 |
| F1 (C6 to C10) | µg/g | | 5 | <5 | <5 |
| F1 (C6 to C10) minus BTEX | µg/g | 25 | 5 | <5 | <5 |
| F2 (C10 to C16) | µg/g | 10 | 10 | <10 | <10 |
| F3 (C16 to C34) | µg/g | 240 | 50 | <50 | <50 |
| F4 (C34 to C50) | µg/g | 120 | 50 | <50 | <50 |
| Gravimetric Heavy Hydrocarbons | µg/g | 120 | 50 | NA | NA |
| Moisture Content | % | | 0.1 | 9.4 | 8.5 |
| Surrogate | Unit | Acceptable Limits | | | |
| Terphenyl | % | 60-140 | | 91 | 110 |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 9: Generic Site Condition Standards for Use within 30 m of a Water Body in a Non-Potable Ground Water Condition - 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.

294696-294732

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 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 contribution.
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC6 and nC10 response factors are within 30% of Toluene response factor.
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.
Fractions 1-4 are quantified without the contribution of PAHs. Under Ontario Regulation 153, results are considered valid without determining the PAH contribution if not requested by the client.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 19T483045

PROJECT: City of Brampton Phase 2 ESA

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CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Robert Mitzakov

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - VOCs (Soil)

DATE RECEIVED: 2019-06-21

DATE REPORTED: 2019-06-28

| Parameter | Unit | SAMPLE DESCRIPTION: | | BH33-7 | BH33-77 |
|-----------------------------|------|---------------------|------|------------|------------|
| | | SAMPLE TYPE: | | Soil | Soil |
| | | DATE SAMPLED: | | 2019-06-19 | 2019-06-19 |
| | | G / S | RDL | 294696 | 294732 |
| Dichlorodifluoromethane | µg/g | 0.05 | 0.05 | <0.05 | <0.05 |
| Vinyl Chloride | ug/g | 0.02 | 0.02 | <0.02 | <0.02 |
| Bromomethane | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| Trichlorofluoromethane | ug/g | 0.25 | 0.05 | <0.05 | <0.05 |
| Acetone | ug/g | 0.5 | 0.50 | <0.50 | <0.50 |
| 1,1-Dichloroethylene | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| Methylene Chloride | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| Trans- 1,2-Dichloroethylene | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| Methyl tert-butyl Ether | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| 1,1-Dichloroethane | ug/g | 0.05 | 0.02 | <0.02 | <0.02 |
| Methyl Ethyl Ketone | ug/g | 0.5 | 0.50 | <0.50 | <0.50 |
| Cis- 1,2-Dichloroethylene | ug/g | 0.05 | 0.02 | <0.02 | <0.02 |
| Chloroform | ug/g | 0.05 | 0.04 | <0.04 | <0.04 |
| 1,2-Dichloroethane | ug/g | 0.05 | 0.03 | <0.03 | <0.03 |
| 1,1,1-Trichloroethane | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| Carbon Tetrachloride | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| Benzene | ug/g | 0.02 | 0.02 | <0.02 | <0.02 |
| 1,2-Dichloropropane | ug/g | 0.05 | 0.03 | <0.03 | <0.03 |
| Trichloroethylene | ug/g | 0.05 | 0.03 | <0.03 | <0.03 |
| Bromodichloromethane | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| Methyl Isobutyl Ketone | ug/g | 0.5 | 0.50 | <0.50 | <0.50 |
| 1,1,2-Trichloroethane | ug/g | 0.05 | 0.04 | <0.04 | <0.04 |
| Toluene | ug/g | 0.2 | 0.05 | <0.05 | <0.05 |
| Dibromochloromethane | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| Ethylene Dibromide | ug/g | 0.05 | 0.04 | <0.04 | <0.04 |
| Tetrachloroethylene | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| 1,1,1,2-Tetrachloroethane | ug/g | 0.05 | 0.04 | <0.04 | <0.04 |
| Chlorobenzene | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| Ethylbenzene | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| m & p-Xylene | ug/g | | 0.05 | <0.05 | <0.05 |

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 19T483045

PROJECT: City of Brampton Phase 2 ESA

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<http://www.agatlabs.com>

CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Robert Mitzakov

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - VOCs (Soil)

DATE RECEIVED: 2019-06-21

DATE REPORTED: 2019-06-28

| Parameter | Unit | SAMPLE DESCRIPTION: | | BH33-7 | BH33-77 |
|---------------------------|------------|---------------------|------|--------|---------|
| | | G / S | RDL | 294696 | 294732 |
| Bromoform | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| Styrene | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| 1,1,2,2-Tetrachloroethane | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| o-Xylene | ug/g | | 0.05 | <0.05 | <0.05 |
| 1,3-Dichlorobenzene | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| 1,4-Dichlorobenzene | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| 1,2-Dichlorobenzene | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| Xylene Mixture | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| 1,3-Dichloropropene | µg/g | 0.05 | 0.04 | <0.04 | <0.04 |
| n-Hexane | µg/g | 0.05 | 0.05 | <0.05 | <0.05 |
| Surrogate | Unit | Acceptable Limits | | | |
| Toluene-d8 | % Recovery | 50-140 | | 109 | 108 |
| 4-Bromofluorobenzene | % Recovery | 50-140 | | 80 | 79 |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 9: Generic Site Condition Standards for Use within 30 m of a Water Body in a Non-Potable Ground Water Condition - 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.

294696-294732 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:



Certificate of Analysis

AGAT WORK ORDER: 19T483045

PROJECT: City of Brampton Phase 2 ESA

5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
TEL (905)712-5100
FAX (905)712-5122
<http://www.agatlabs.com>

CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Robert Mitzakov

SAMPLING SITE:

SAMPLED BY:

O. Reg. 558 - SVOCs

DATE RECEIVED: 2019-06-21

DATE REPORTED: 2019-06-28

| | | SAMPLE DESCRIPTION: | | COMP-1 |
|---------------------------|------|---------------------|-------|------------|
| | | SAMPLE TYPE: | | Soil |
| | | DATE SAMPLED: | | 2019-06-19 |
| Parameter | Unit | G / S | RDL | 294734 |
| Pyridine | mg/L | 5.0 | 0.010 | <0.010 |
| Cresols | mg/L | 200 | 0.012 | <0.012 |
| Ortho-Cresol | mg/L | 200 | 0.004 | <0.004 |
| Meta & Para-Cresol | mg/L | 200 | 0.008 | <0.008 |
| Hexachloroethane | mg/L | 3 | 0.004 | <0.004 |
| Nitrobenzene | mg/L | 2.0 | 0.004 | <0.004 |
| Hexachlorobutadiene | mg/L | 0.5 | 0.004 | <0.004 |
| 2,4,6-Trichlorophenol | mg/L | 0.5 | 0.05 | <0.05 |
| 2,4,5-Trichlorophenol | mg/L | 400 | 0.004 | <0.004 |
| 2,4-Dinitrotoluene | mg/L | 0.13 | 0.004 | <0.004 |
| 2,3,4,6-Tetrachlorophenol | mg/L | 10 | 0.004 | <0.004 |
| Hexachlorobenzene | mg/L | 0.13 | 0.004 | <0.004 |
| Dinoseb | mg/L | 1 | 0.004 | <0.004 |
| Benzo(a)pyrene | mg/L | 0.001 | 0.001 | <0.001 |
| BNA Extr | NA | | | Y |
| Surrogate | Unit | Acceptable Limits | | |
| Chrysene-d12 | % | 50-130 | | 101 |

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.

294734 The sample was leached according to Regulation 558 protocol. Analysis was performed on the leachate.
Cresols total is a calculated parameter. The calculated value is the sum o-Cresol and m&p-Cresol.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 19T483045

PROJECT: City of Brampton Phase 2 ESA

5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
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<http://www.agatlabs.com>

CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Robert Mitzakov

SAMPLING SITE:

SAMPLED BY:

O. Reg. 558 - VOCs

DATE RECEIVED: 2019-06-21

DATE REPORTED: 2019-06-28

| SAMPLE DESCRIPTION: | | COMP-1 | | |
|----------------------|------------|-------------------|-------|--------|
| SAMPLE TYPE: | | Soil | | |
| DATE SAMPLED: | | 2019-06-19 | | |
| Parameter | Unit | G / S | RDL | 294734 |
| Vinyl Chloride | mg/L | 0.2 | 0.030 | <0.030 |
| 1,1 Dichloroethene | mg/L | 1.4 | 0.020 | <0.020 |
| Dichloromethane | mg/L | 5.0 | 0.030 | <0.030 |
| Methyl Ethyl Ketone | mg/L | 200 | 0.090 | <0.090 |
| Chloroform | mg/L | 10.0 | 0.020 | <0.020 |
| 1,2-Dichloroethane | mg/L | 0.5 | 0.020 | <0.020 |
| Carbon Tetrachloride | mg/L | 0.5 | 0.020 | <0.020 |
| Benzene | mg/L | 0.5 | 0.020 | <0.020 |
| Trichloroethene | mg/L | 5.0 | 0.020 | <0.020 |
| Tetrachloroethene | mg/L | 3.0 | 0.050 | <0.050 |
| Chlorobenzene | mg/L | 8.0 | 0.010 | <0.010 |
| 1,2-Dichlorobenzene | mg/L | 20.0 | 0.010 | <0.010 |
| 1,4-Dichlorobenzene | mg/L | 0.5 | 0.010 | <0.010 |
| Surrogate | Unit | Acceptable Limits | | |
| Toluene-d8 | % Recovery | 60-130 | | 91 |

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.

294734 Sample was prepared using Regulation 558 protocol and a zero headspace extractor.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 19T483045

PROJECT: City of Brampton Phase 2 ESA

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CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Robert Mitzakov

SAMPLING SITE:

SAMPLED BY:

Phenoxy Acid Herbicides (Soil)

DATE RECEIVED: 2019-06-21

DATE REPORTED: 2019-06-28

| SAMPLE DESCRIPTION: | | BH33-3 | |
|---------------------------|------|-------------------|--------|
| SAMPLE TYPE: | | Soil | |
| DATE SAMPLED: | | 2019-06-19 | |
| Parameter | Unit | G / S | RDL |
| | | | 294694 |
| 2,4-D | ug/g | 0.10 | <0.10 |
| 2,4,5-T | ug/g | 0.10 | <0.10 |
| 2,4,5-TP (Silvex) | ug/g | 0.10 | <0.10 |
| Dicamba | ug/g | 0.10 | <0.10 |
| Dichlorprop | ug/g | 0.10 | <0.10 |
| Dinoseb | ug/g | 0.10 | <0.10 |
| Picloram | ug/g | 0.10 | <0.10 |
| Diclofop-methyl | ug/g | 0.10 | <0.10 |
| 2,3,4,6-Tetrachlorophenol | ug/g | 0.05 | <0.05 |
| 2,4-Dichlorophenol | ug/g | 0.05 | <0.05 |
| 2,4,5-Trichlorophenol | ug/g | 0.05 | <0.05 |
| 2,4,6-Trichlorophenol | ug/g | 0.05 | <0.05 |
| Bromoxynil | ug/g | 0.5 | <0.5 |
| MCP (Mecoprop) | ug/g | 1.0 | <1.0 |
| MCPA | ug/g | 1.0 | <1.0 |
| Pentachlorophenol | ug/g | 0.05 | <0.05 |
| Phenoxy Extr | NA | | Y |
| Surrogate | Unit | Acceptable Limits | |
| DCAA | % | 50-130 | 65 |

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

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 19T483045

PROJECT: City of Brampton Phase 2 ESA

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<http://www.agatlabs.com>

CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Robert Mitzakov

SAMPLING SITE:

SAMPLED BY:

Total PCBs (soil)

DATE RECEIVED: 2019-06-21

DATE REPORTED: 2019-06-28

| | | SAMPLE DESCRIPTION: | | COMP-1 |
|--------------------|------|---------------------|-----|------------|
| | | SAMPLE TYPE: | | Soil |
| | | DATE SAMPLED: | | 2019-06-19 |
| Parameter | Unit | G / S | RDL | 294734 |
| PCBs | µg/g | 0.3 | 0.1 | <0.1 |
| Moisture Content | % | | 0.1 | 5.9 |
| Surrogate | Unit | Acceptable Limits | | |
| Decachlorobiphenyl | % | 60-130 | | 120 |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 9: Generic Site Condition Standards for Use within 30 m of a Water Body in a Non-Potable Ground Water Condition - 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.

294734 Results are based on the dry weight of soil extracted.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:

Quality Assurance

CLIENT NAME: SNC LAVALIN INC
PROJECT: City of Brampton Phase 2 ESA
SAMPLING SITE:

AGAT WORK ORDER: 19T483045
ATTENTION TO: Robert Mitzakov
SAMPLED BY:

| Soil Analysis | | | | | | | | | | | | | | | |
|---|--------|-----------|-----------|--------|------|----------------|--------------|--------------------|-------|----------|--------------------|-------|--------------|-------------------|-------|
| RPT Date: Jun 28, 2019 | | | DUPLICATE | | | | Method Blank | REFERENCE MATERIAL | | | METHOD BLANK SPIKE | | MATRIX SPIKE | | |
| PARAMETER | Batch | Sample Id | Dup #1 | Dup #2 | RPD | Measured Value | | Acceptable Limits | | Recovery | Acceptable Limits | | Recovery | Acceptable Limits | |
| | | | | | | | | Lower | Upper | | Lower | Upper | | Lower | Upper |
| O. Reg. 153(511) - Metals & Inorganics (Soil) | | | | | | | | | | | | | | | |
| Antimony | 300433 | | <0.8 | <0.8 | NA | < 0.8 | 127% | 70% | 130% | 99% | 80% | 120% | 88% | 70% | 130% |
| Arsenic | 300433 | | 3 | 3 | NA | < 1 | 105% | 70% | 130% | 100% | 80% | 120% | 97% | 70% | 130% |
| Barium | 300433 | | 256 | 249 | 2.8% | < 2 | 108% | 70% | 130% | 103% | 80% | 120% | 98% | 70% | 130% |
| Beryllium | 300433 | | 1.3 | 1.3 | NA | < 0.5 | 73% | 70% | 130% | 118% | 80% | 120% | 82% | 70% | 130% |
| Boron | 300433 | | <5 | <5 | NA | < 5 | 88% | 70% | 130% | 111% | 80% | 120% | 113% | 70% | 130% |
| Boron (Hot Water Soluble) | 300433 | | 0.14 | 0.16 | NA | < 0.10 | 118% | 60% | 140% | 107% | 70% | 130% | 104% | 60% | 140% |
| Cadmium | 300433 | | <0.5 | <0.5 | NA | < 0.5 | 110% | 70% | 130% | 103% | 80% | 120% | 105% | 70% | 130% |
| Chromium | 300433 | | 35 | 37 | 5.6% | < 2 | 90% | 70% | 130% | 104% | 80% | 120% | 117% | 70% | 130% |
| Cobalt | 300433 | | 10.8 | 11.3 | 4.5% | < 0.5 | 93% | 70% | 130% | 104% | 80% | 120% | 100% | 70% | 130% |
| Copper | 300433 | | 30 | 31 | 3.3% | < 1 | 89% | 70% | 130% | 105% | 80% | 120% | 95% | 70% | 130% |
| Lead | 300433 | | 14 | 14 | 0.0% | < 1 | 107% | 70% | 130% | 94% | 80% | 120% | 92% | 70% | 130% |
| Molybdenum | 300433 | | <0.5 | <0.5 | NA | < 0.5 | 105% | 70% | 130% | 103% | 80% | 120% | 99% | 70% | 130% |
| Nickel | 300433 | | 35 | 36 | 2.8% | < 1 | 96% | 70% | 130% | 109% | 80% | 120% | 104% | 70% | 130% |
| Selenium | 300433 | | 0.4 | 0.5 | NA | < 0.4 | 110% | 70% | 130% | 99% | 80% | 120% | 93% | 70% | 130% |
| Silver | 300433 | | <0.2 | <0.2 | NA | < 0.2 | 102% | 70% | 130% | 103% | 80% | 120% | 101% | 70% | 130% |
| Thallium | 300433 | | <0.4 | <0.4 | NA | < 0.4 | 87% | 70% | 130% | 100% | 80% | 120% | 99% | 70% | 130% |
| Uranium | 300433 | | 1.1 | 1.1 | NA | < 0.5 | 92% | 70% | 130% | 86% | 80% | 120% | 87% | 70% | 130% |
| Vanadium | 300433 | | 46 | 48 | 4.3% | < 1 | 91% | 70% | 130% | 100% | 80% | 120% | 109% | 70% | 130% |
| Zinc | 300433 | | 58 | 59 | 1.7% | < 5 | 97% | 70% | 130% | 105% | 80% | 120% | 110% | 70% | 130% |
| Chromium VI | 294607 | | <0.2 | <0.2 | NA | < 0.2 | 105% | 70% | 130% | 99% | 80% | 120% | 102% | 70% | 130% |
| Cyanide | 300023 | | <0.040 | <0.040 | NA | < 0.040 | 95% | 70% | 130% | 94% | 80% | 120% | 98% | 70% | 130% |
| Mercury | 300433 | | <0.10 | <0.10 | NA | < 0.10 | 106% | 70% | 130% | 102% | 80% | 120% | 103% | 70% | 130% |
| Electrical Conductivity | 300433 | | 0.321 | 0.322 | 0.3% | < 0.005 | 100% | 90% | 110% | NA | | | NA | | |
| Sodium Adsorption Ratio | 300433 | | 0.418 | 0.409 | 2.2% | NA | NA | | | NA | | | NA | | |
| pH, 2:1 CaCl2 Extraction | 295482 | | 7.60 | 7.61 | 0.1% | NA | 103% | 80% | 120% | NA | | | NA | | |

Comments: NA signifies Not Applicable.

Duplicate Qualifier: As the measured result approaches the RL, the uncertainty associated with the value increases dramatically, thus duplicate acceptance limits apply only where the average of the two duplicates is greater than five times the RL

pH duplicates QA acceptance criteria was met relative as stated in Table 5-15 of Analytical Protocol document.

O. Reg. 558 Metals and Inorganics

| | | | | | | | | | | | | | | | |
|-------------------|--------|--|--------|--------|----|---------|------|-----|------|------|-----|------|------|-----|------|
| Arsenic Leachate | 300086 | | <0.010 | <0.010 | NA | < 0.010 | 100% | 90% | 110% | 105% | 80% | 120% | 114% | 70% | 130% |
| Barium Leachate | 300086 | | 0.199 | 0.219 | NA | < 0.100 | 102% | 90% | 110% | 107% | 80% | 120% | 113% | 70% | 130% |
| Boron Leachate | 300086 | | 0.058 | 0.054 | NA | < 0.050 | 104% | 90% | 110% | 110% | 80% | 120% | 78% | 70% | 130% |
| Cadmium Leachate | 300086 | | <0.010 | <0.010 | NA | < 0.010 | 100% | 90% | 110% | 99% | 80% | 120% | 98% | 70% | 130% |
| Chromium Leachate | 300086 | | <0.010 | <0.010 | NA | < 0.010 | 95% | 90% | 110% | 109% | 80% | 120% | 91% | 70% | 130% |
| Lead Leachate | 300086 | | <0.010 | <0.010 | NA | < 0.010 | 105% | 90% | 110% | 117% | 80% | 120% | 110% | 70% | 130% |
| Mercury Leachate | 300086 | | <0.01 | <0.01 | NA | < 0.01 | 100% | 90% | 110% | 92% | 80% | 120% | 90% | 70% | 130% |
| Selenium Leachate | 300086 | | <0.010 | <0.010 | NA | < 0.010 | 99% | 90% | 110% | 105% | 80% | 120% | 114% | 70% | 130% |
| Silver Leachate | 300086 | | <0.010 | <0.010 | NA | < 0.010 | 99% | 90% | 110% | 101% | 80% | 120% | 89% | 70% | 130% |



Quality Assurance

CLIENT NAME: SNC LAVALIN INC
 PROJECT: City of Brampton Phase 2 ESA
 SAMPLING SITE:

AGAT WORK ORDER: 19T483045
 ATTENTION TO: Robert Mitzakov
 SAMPLED BY:

Soil Analysis (Continued)

| RPT Date: Jun 28, 2019 | | | DUPLICATE | | | | Method Blank | REFERENCE MATERIAL | | | METHOD BLANK SPIKE | | | MATRIX SPIKE | | |
|-----------------------------------|--------|-----------|-----------|--------|-----|----------------|--------------|--------------------|-------|----------|--------------------|-------|----------|-------------------|-------|--|
| PARAMETER | Batch | Sample Id | Dup #1 | Dup #2 | RPD | Measured Value | | Acceptable Limits | | Recovery | Acceptable Limits | | Recovery | Acceptable Limits | | |
| | | | | | | | | Lower | Upper | | Lower | Upper | | Lower | Upper | |
| Uranium Leachate | 300086 | | <0.050 | <0.050 | NA | < 0.050 | 102% | 90% | 110% | 103% | 80% | 120% | 107% | 70% | 130% | |
| Fluoride Leachate | 300086 | | 0.17 | 0.17 | NA | < 0.05 | 102% | 90% | 110% | 106% | 90% | 110% | 97% | 70% | 130% | |
| Cyanide Leachate | 300086 | | <0.05 | <0.05 | NA | < 0.05 | 95% | 90% | 110% | 94% | 90% | 110% | 103% | 70% | 130% | |
| (Nitrate + Nitrite) as N Leachate | 300086 | | <0.70 | <0.70 | NA | < 0.70 | 98% | 80% | 120% | 97% | 80% | 120% | 106% | 70% | 130% | |

Comments: NA signifies Not Applicable.

Duplicate Qualifier: As the measured result approaches the RL, the uncertainty associated with the value increases dramatically, thus duplicate acceptance limits apply only where the average of the two duplicates is greater than five times the RL

Certified By: _____



Quality Assurance

CLIENT NAME: SNC LAVALIN INC
 PROJECT: City of Brampton Phase 2 ESA
 SAMPLING SITE:

AGAT WORK ORDER: 19T483045
 ATTENTION TO: Robert Mitzakov
 SAMPLED BY:

Trace Organics Analysis

| RPT Date: Jun 28, 2019 | | | DUPLICATE | | | | Method Blank | REFERENCE MATERIAL | | | METHOD BLANK SPIKE | | | MATRIX SPIKE | | |
|------------------------|-------|-----------|-----------|--------|-----|----------------|--------------|--------------------|-------|----------|--------------------|-------|----------|-------------------|-------|--|
| PARAMETER | Batch | Sample Id | Dup #1 | Dup #2 | RPD | Measured Value | | Acceptable Limits | | Recovery | Acceptable Limits | | Recovery | Acceptable Limits | | |
| | | | | | | | | Lower | Upper | | Lower | Upper | | Lower | Upper | |

O. Reg. 153(511) - PAHs (Soil)

| | | | | | | | | | | | | | | | |
|------------------------|--------|--------|--------|--------|----|--------|------|-----|------|------|-----|------|-----|-----|------|
| Naphthalene | 294694 | 294694 | < 0.05 | < 0.05 | NA | < 0.05 | 112% | 50% | 140% | 88% | 50% | 140% | 72% | 50% | 140% |
| Acenaphthylene | 294694 | 294694 | < 0.05 | < 0.05 | NA | < 0.05 | 113% | 50% | 140% | 92% | 50% | 140% | 73% | 50% | 140% |
| Acenaphthene | 294694 | 294694 | < 0.05 | < 0.05 | NA | < 0.05 | 108% | 50% | 140% | 92% | 50% | 140% | 74% | 50% | 140% |
| Fluorene | 294694 | 294694 | < 0.05 | < 0.05 | NA | < 0.05 | 112% | 50% | 140% | 89% | 50% | 140% | 75% | 50% | 140% |
| Phenanthrene | 294694 | 294694 | < 0.05 | < 0.05 | NA | < 0.05 | 107% | 50% | 140% | 80% | 50% | 140% | 67% | 50% | 140% |
| Anthracene | 294694 | 294694 | < 0.05 | < 0.05 | NA | < 0.05 | 94% | 50% | 140% | 81% | 50% | 140% | 67% | 50% | 140% |
| Fluoranthene | 294694 | 294694 | < 0.05 | < 0.05 | NA | < 0.05 | 119% | 50% | 140% | 98% | 50% | 140% | 79% | 50% | 140% |
| Pyrene | 294694 | 294694 | < 0.05 | < 0.05 | NA | < 0.05 | 116% | 50% | 140% | 99% | 50% | 140% | 77% | 50% | 140% |
| Benz(a)anthracene | 294694 | 294694 | < 0.05 | < 0.05 | NA | < 0.05 | 62% | 50% | 140% | 101% | 50% | 140% | 68% | 50% | 140% |
| Chrysene | 294694 | 294694 | < 0.05 | < 0.05 | NA | < 0.05 | 112% | 50% | 140% | 101% | 50% | 140% | 73% | 50% | 140% |
| Benzo(b)fluoranthene | 294694 | 294694 | < 0.05 | < 0.05 | NA | < 0.05 | 111% | 50% | 140% | 70% | 50% | 140% | 72% | 50% | 140% |
| Benzo(k)fluoranthene | 294694 | 294694 | < 0.05 | < 0.05 | NA | < 0.05 | 116% | 50% | 140% | 70% | 50% | 140% | 65% | 50% | 140% |
| Benzo(a)pyrene | 294694 | 294694 | < 0.05 | < 0.05 | NA | < 0.05 | 108% | 50% | 140% | 78% | 50% | 140% | 61% | 50% | 140% |
| Indeno(1,2,3-cd)pyrene | 294694 | 294694 | < 0.05 | < 0.05 | NA | < 0.05 | 74% | 50% | 140% | 86% | 50% | 140% | 69% | 50% | 140% |
| Dibenz(a,h)anthracene | 294694 | 294694 | < 0.05 | < 0.05 | NA | < 0.05 | 66% | 50% | 140% | 85% | 50% | 140% | 66% | 50% | 140% |
| Benzo(g,h,i)perylene | 294694 | 294694 | < 0.05 | < 0.05 | NA | < 0.05 | 105% | 50% | 140% | 88% | 50% | 140% | 71% | 50% | 140% |

O. Reg. 153(511) - OC Pesticides (Soil)

| | | | | | | | | | | | | | | | |
|-----------------------------|--------|--|---------|---------|----|---------|-----|-----|------|------|-----|------|------|-----|------|
| Hexachloroethane | 294132 | | < 0.01 | < 0.01 | NA | < 0.01 | 85% | 50% | 140% | 84% | 50% | 140% | 94% | 50% | 140% |
| Gamma-Hexachlorocyclohexane | 294132 | | < 0.005 | < 0.005 | NA | < 0.005 | 86% | 50% | 140% | 93% | 50% | 140% | 86% | 50% | 140% |
| Heptachlor | 294132 | | < 0.005 | < 0.005 | NA | < 0.005 | 82% | 50% | 140% | 95% | 50% | 140% | 80% | 50% | 140% |
| Aldrin | 294132 | | < 0.005 | < 0.005 | NA | < 0.005 | 87% | 50% | 140% | 94% | 50% | 140% | 87% | 50% | 140% |
| Heptachlor Epoxide | 294132 | | < 0.005 | < 0.005 | NA | < 0.005 | 90% | 50% | 140% | 94% | 50% | 140% | 89% | 50% | 140% |
| Endosulfan | 294132 | | < 0.005 | < 0.005 | NA | < 0.005 | 93% | 50% | 140% | 92% | 50% | 140% | 91% | 50% | 140% |
| Chlordane | 294132 | | < 0.007 | < 0.007 | NA | < 0.007 | 92% | 50% | 140% | 89% | 50% | 140% | 90% | 50% | 140% |
| DDE | 294132 | | < 0.007 | < 0.007 | NA | < 0.007 | 97% | 50% | 140% | 86% | 50% | 140% | 83% | 50% | 140% |
| DDD | 294132 | | < 0.007 | < 0.007 | NA | < 0.007 | 97% | 50% | 140% | 84% | 50% | 140% | 83% | 50% | 140% |
| DDT | 294132 | | < 0.007 | < 0.007 | NA | < 0.007 | 90% | 50% | 140% | 86% | 50% | 140% | 83% | 50% | 140% |
| Dieldrin | 294132 | | < 0.005 | < 0.005 | NA | < 0.005 | 91% | 50% | 140% | 88% | 50% | 140% | 84% | 50% | 140% |
| Endrin | 294132 | | < 0.005 | < 0.005 | NA | < 0.005 | 88% | 50% | 140% | 93% | 50% | 140% | 90% | 50% | 140% |
| Methoxychlor | 294132 | | < 0.005 | < 0.005 | NA | < 0.005 | 93% | 50% | 140% | 103% | 50% | 140% | 91% | 50% | 140% |
| Hexachlorobenzene | 294132 | | < 0.005 | < 0.005 | NA | < 0.005 | 90% | 50% | 140% | 98% | 50% | 140% | 92% | 50% | 140% |
| Hexachlorobutadiene | 294132 | | < 0.01 | < 0.01 | NA | < 0.01 | 86% | 50% | 140% | 92% | 50% | 140% | 100% | 50% | 140% |

Phenoxy Acid Herbicides (Soil)

| | | | | | | | | | | | | | | | |
|-------------------|--------|--|--------|--------|----|--------|------|-----|------|-----|-----|------|------|-----|------|
| 2,4-D | 268398 | | < 0.10 | < 0.10 | NA | < 0.10 | 100% | 50% | 130% | 98% | 50% | 130% | 100% | 50% | 130% |
| 2,4,5-T | 268398 | | < 0.10 | < 0.10 | NA | < 0.10 | 90% | 50% | 130% | 90% | 50% | 130% | 92% | 50% | 130% |
| 2,4,5-TP (Silvex) | 268398 | | < 0.10 | < 0.10 | NA | < 0.10 | 92% | 50% | 130% | 85% | 50% | 130% | 70% | 50% | 130% |
| Dicamba | 268398 | | < 0.10 | < 0.10 | NA | < 0.10 | 97% | 50% | 130% | 86% | 50% | 130% | 76% | 50% | 130% |
| Dichlorprop | 268398 | | < 0.10 | < 0.10 | NA | < 0.10 | 102% | 50% | 130% | 90% | 50% | 130% | 80% | 50% | 130% |

Quality Assurance

CLIENT NAME: SNC LAVALIN INC

AGAT WORK ORDER: 19T483045

PROJECT: City of Brampton Phase 2 ESA

ATTENTION TO: Robert Mitzakov

SAMPLING SITE:

SAMPLED BY:

Trace Organics Analysis (Continued)

| RPT Date: Jun 28, 2019 | | | DUPLICATE | | | Method Blank | REFERENCE MATERIAL | | | METHOD BLANK SPIKE | | | MATRIX SPIKE | | |
|--|--------|-----------|-----------|--------|-----|--------------|--------------------|-------------------|-------|--------------------|-------------------|-------|--------------|-------------------|-------|
| PARAMETER | Batch | Sample Id | Dup #1 | Dup #2 | RPD | | Measured Value | Acceptable Limits | | Recovery | Acceptable Limits | | Recovery | Acceptable Limits | |
| | | | | | | | | Lower | Upper | | Lower | Upper | | Lower | Upper |
| Dinoseb | 268398 | | < 0.10 | < 0.10 | NA | < 0.10 | 75% | 50% | 130% | 65% | 50% | 130% | 63% | 50% | 130% |
| Picloram | 268398 | | < 0.10 | < 0.10 | NA | < 0.10 | 103% | 50% | 130% | 80% | 50% | 130% | 64% | 50% | 130% |
| Diclofop-methyl | 268398 | | < 0.10 | < 0.10 | NA | < 0.10 | 105% | 50% | 130% | 101% | 50% | 130% | 95% | 50% | 130% |
| 2,3,4,6-Tetrachlorophenol | 268398 | | < 0.05 | < 0.05 | NA | < 0.05 | 117% | 50% | 130% | 101% | 50% | 130% | 97% | 50% | 130% |
| 2,4-Dichlorophenol | 268398 | | < 0.05 | < 0.05 | NA | < 0.05 | 99% | 50% | 130% | 90% | 50% | 130% | 74% | 50% | 130% |
| 2,4,5-Trichlorophenol | 268398 | | < 0.05 | < 0.05 | NA | < 0.05 | 90% | 50% | 130% | 85% | 50% | 130% | 70% | 50% | 130% |
| 2,4,6-Trichlorophenol | 268398 | | < 0.05 | < 0.05 | NA | < 0.05 | 111% | 50% | 130% | 101% | 50% | 130% | 97% | 50% | 130% |
| Bromoxynil | 268398 | | < 0.5 | < 0.5 | NA | < 0.5 | 98% | 60% | 130% | 95% | 60% | 130% | 94% | 60% | 130% |
| MCPP (Mecoprop) | 268398 | | < 1.0 | < 1.0 | NA | < 1.0 | NA | 50% | 130% | 100% | 50% | 130% | 80% | 50% | 130% |
| MCPA | 268398 | | < 1.0 | < 1.0 | NA | < 1.0 | NA | 50% | 130% | 98% | 50% | 130% | 90% | 50% | 130% |
| Pentachlorophenol | 268398 | | < 0.05 | < 0.05 | NA | < 0.05 | 94% | 50% | 130% | 90% | 50% | 130% | 80% | 50% | 130% |
| O. Reg. 153(511) - PHCs F1 - F4 (-BTEX) (Soil) | | | | | | | | | | | | | | | |
| F1 (C6 to C10) | 300201 | | < 5 | < 5 | NA | < 5 | 113% | 60% | 130% | 104% | 85% | 115% | 95% | 70% | 130% |
| F2 (C10 to C16) | 247073 | | < 10 | < 10 | NA | < 10 | 102% | 60% | 130% | 107% | 80% | 120% | 86% | 70% | 130% |
| F3 (C16 to C34) | 247073 | | < 50 | < 50 | NA | < 50 | 103% | 60% | 130% | 117% | 80% | 120% | 91% | 70% | 130% |
| F4 (C34 to C50) | 247073 | | < 50 | < 50 | NA | < 50 | 94% | 60% | 130% | 119% | 80% | 120% | 118% | 70% | 130% |
| O. Reg. 153(511) - VOCs (Soil) | | | | | | | | | | | | | | | |
| Dichlorodifluoromethane | 291666 | | < 0.05 | < 0.05 | NA | < 0.05 | 85% | 50% | 140% | 88% | 50% | 140% | 88% | 50% | 140% |
| Vinyl Chloride | 291666 | | < 0.02 | < 0.02 | NA | < 0.02 | 99% | 50% | 140% | 99% | 50% | 140% | 102% | 50% | 140% |
| Bromomethane | 291666 | | < 0.05 | < 0.05 | NA | < 0.05 | 103% | 50% | 140% | 117% | 50% | 140% | 111% | 50% | 140% |
| Trichlorofluoromethane | 291666 | | < 0.05 | < 0.05 | NA | < 0.05 | 96% | 50% | 140% | 95% | 50% | 140% | 102% | 50% | 140% |
| Acetone | 291666 | | < 0.50 | < 0.50 | NA | < 0.50 | 96% | 50% | 140% | 95% | 50% | 140% | 92% | 50% | 140% |
| 1,1-Dichloroethylene | 291666 | | < 0.05 | < 0.05 | NA | < 0.05 | 78% | 50% | 140% | 99% | 60% | 130% | 102% | 50% | 140% |
| Methylene Chloride | 291666 | | < 0.05 | < 0.05 | NA | < 0.05 | 106% | 50% | 140% | 83% | 60% | 130% | 105% | 50% | 140% |
| Trans- 1,2-Dichloroethylene | 291666 | | < 0.05 | < 0.05 | NA | < 0.05 | 91% | 50% | 140% | 115% | 60% | 130% | 105% | 50% | 140% |
| Methyl tert-butyl Ether | 291666 | | < 0.05 | < 0.05 | NA | < 0.05 | 118% | 50% | 140% | 96% | 60% | 130% | 80% | 50% | 140% |
| 1,1-Dichloroethane | 291666 | | < 0.02 | < 0.02 | NA | < 0.02 | 90% | 50% | 140% | 113% | 60% | 130% | 97% | 50% | 140% |
| Methyl Ethyl Ketone | 291666 | | < 0.50 | < 0.50 | NA | < 0.50 | 96% | 50% | 140% | 97% | 50% | 140% | 92% | 50% | 140% |
| Cis- 1,2-Dichloroethylene | 291666 | | < 0.02 | < 0.02 | NA | < 0.02 | 88% | 50% | 140% | 119% | 60% | 130% | 102% | 50% | 140% |
| Chloroform | 291666 | | < 0.04 | < 0.04 | NA | < 0.04 | 81% | 50% | 140% | 116% | 60% | 130% | 111% | 50% | 140% |
| 1,2-Dichloroethane | 291666 | | < 0.03 | < 0.03 | NA | < 0.03 | 95% | 50% | 140% | 87% | 60% | 130% | 81% | 50% | 140% |
| 1,1,1-Trichloroethane | 291666 | | < 0.05 | < 0.05 | NA | < 0.05 | 78% | 50% | 140% | 103% | 60% | 130% | 90% | 50% | 140% |
| Carbon Tetrachloride | 291666 | | < 0.05 | < 0.05 | NA | < 0.05 | 85% | 50% | 140% | 92% | 60% | 130% | 95% | 50% | 140% |
| Benzene | 291666 | | < 0.02 | < 0.02 | NA | < 0.02 | 88% | 50% | 140% | 109% | 60% | 130% | 115% | 50% | 140% |
| 1,2-Dichloropropane | 291666 | | < 0.03 | < 0.03 | NA | < 0.03 | 97% | 50% | 140% | 84% | 60% | 130% | 86% | 50% | 140% |
| Trichloroethylene | 291666 | | < 0.03 | < 0.03 | NA | < 0.03 | 86% | 50% | 140% | 108% | 60% | 130% | 115% | 50% | 140% |
| Bromodichloromethane | 291666 | | < 0.05 | < 0.05 | NA | < 0.05 | 90% | 50% | 140% | 80% | 60% | 130% | 83% | 50% | 140% |
| Methyl Isobutyl Ketone | 291666 | | < 0.50 | < 0.50 | NA | < 0.50 | 105% | 50% | 140% | 82% | 50% | 140% | 80% | 50% | 140% |
| 1,1,2-Trichloroethane | 291666 | | < 0.04 | < 0.04 | NA | < 0.04 | 78% | 50% | 140% | 98% | 60% | 130% | 105% | 50% | 140% |

Quality Assurance

CLIENT NAME: SNC LAVALIN INC
 PROJECT: City of Brampton Phase 2 ESA
 SAMPLING SITE:

AGAT WORK ORDER: 19T483045
 ATTENTION TO: Robert Mitzakov
 SAMPLED BY:

Trace Organics Analysis (Continued)

| RPT Date: Jun 28, 2019 | | | DUPLICATE | | | Method Blank | REFERENCE MATERIAL | | | METHOD BLANK SPIKE | | | MATRIX SPIKE | | |
|---------------------------|--------|-----------|-----------|---------|-----|--------------|--------------------|-------------------|-------|--------------------|-------------------|-------|--------------|-------------------|-------|
| PARAMETER | Batch | Sample Id | Dup #1 | Dup #2 | RPD | | Measured Value | Acceptable Limits | | Recovery | Acceptable Limits | | Recovery | Acceptable Limits | |
| | | | | | | | | Lower | Upper | | Lower | Upper | | Lower | Upper |
| Toluene | 291666 | | < 0.05 | < 0.05 | NA | < 0.05 | 114% | 50% | 140% | 89% | 60% | 130% | 111% | 50% | 140% |
| Dibromochloromethane | 291666 | | < 0.05 | < 0.05 | NA | < 0.05 | 83% | 50% | 140% | 75% | 60% | 130% | 80% | 50% | 140% |
| Ethylene Dibromide | 291666 | | < 0.04 | < 0.04 | NA | < 0.04 | 94% | 50% | 140% | 98% | 60% | 130% | 86% | 50% | 140% |
| Tetrachloroethylene | 291666 | | < 0.05 | < 0.05 | NA | < 0.05 | 95% | 50% | 140% | 100% | 60% | 130% | 107% | 50% | 140% |
| 1,1,1,2-Tetrachloroethane | 291666 | | < 0.04 | < 0.04 | NA | < 0.04 | 83% | 50% | 140% | 97% | 60% | 130% | 86% | 50% | 140% |
| Chlorobenzene | 291666 | | < 0.05 | < 0.05 | NA | < 0.05 | 107% | 50% | 140% | 95% | 60% | 130% | 101% | 50% | 140% |
| Ethylbenzene | 291666 | | < 0.05 | < 0.05 | NA | < 0.05 | 104% | 50% | 140% | 109% | 60% | 130% | 86% | 50% | 140% |
| m & p-Xylene | 291666 | | < 0.05 | < 0.05 | NA | < 0.05 | 122% | 50% | 140% | 99% | 60% | 130% | 98% | 50% | 140% |
| Bromoform | 291666 | | < 0.05 | < 0.05 | NA | < 0.05 | 86% | 50% | 140% | 76% | 60% | 130% | 86% | 50% | 140% |
| Styrene | 291666 | | < 0.05 | < 0.05 | NA | < 0.05 | 80% | 50% | 140% | 81% | 60% | 130% | 114% | 50% | 140% |
| 1,1,2,2-Tetrachloroethane | 291666 | | < 0.05 | < 0.05 | NA | < 0.05 | 71% | 50% | 140% | 112% | 60% | 130% | 98% | 50% | 140% |
| o-Xylene | 291666 | | < 0.05 | < 0.05 | NA | < 0.05 | 111% | 50% | 140% | 114% | 60% | 130% | 100% | 50% | 140% |
| 1,3-Dichlorobenzene | 291666 | | < 0.05 | < 0.05 | NA | < 0.05 | 94% | 50% | 140% | 110% | 60% | 130% | 119% | 50% | 140% |
| 1,4-Dichlorobenzene | 291666 | | < 0.05 | < 0.05 | NA | < 0.05 | 95% | 50% | 140% | 80% | 60% | 130% | 115% | 50% | 140% |
| 1,2-Dichlorobenzene | 291666 | | < 0.05 | < 0.05 | NA | < 0.05 | 87% | 50% | 140% | 84% | 60% | 130% | 112% | 50% | 140% |
| 1,3-Dichloropropene | 291666 | | < 0.04 | < 0.04 | NA | < 0.04 | 86% | 50% | 140% | 81% | 60% | 130% | 84% | 50% | 140% |
| n-Hexane | 291666 | | < 0.05 | < 0.05 | NA | < 0.05 | 98% | 50% | 140% | 117% | 60% | 130% | 104% | 50% | 140% |
| O. Reg. 558 - SVOCs | | | | | | | | | | | | | | | |
| Pyridine | 263544 | | < 0.010 | < 0.010 | NA | < 0.010 | 100% | 30% | 100% | 97% | 30% | 100% | NA | 30% | 100% |
| Cresols | 263544 | | < 0.012 | < 0.012 | NA | < 0.012 | 84% | 60% | 130% | 105% | 35% | 110% | NA | 30% | 130% |
| Ortho-Cresol | 263544 | | < 0.004 | < 0.004 | NA | < 0.004 | 81% | 50% | 130% | 101% | 50% | 130% | NA | 50% | 130% |
| Meta & Para-Cresol | 263544 | | < 0.008 | < 0.008 | NA | < 0.008 | 86% | 50% | 130% | 108% | 50% | 130% | NA | 50% | 130% |
| Hexachloroethane | 263544 | | < 0.004 | < 0.004 | NA | < 0.004 | 105% | 60% | 130% | 103% | 60% | 130% | NA | 60% | 130% |
| Nitrobenzene | 263544 | | < 0.004 | < 0.004 | NA | < 0.004 | 101% | 60% | 130% | 110% | 60% | 130% | NA | 60% | 130% |
| Hexachlorobutadiene | 263544 | | < 0.004 | < 0.004 | NA | < 0.004 | 110% | 60% | 130% | 75% | 60% | 130% | NA | 60% | 130% |
| 2,4,6-Trichlorophenol | 263544 | | < 0.05 | < 0.05 | NA | < 0.05 | 119% | 60% | 130% | 66% | 60% | 130% | NA | 60% | 130% |
| 2,4,5-Trichlorophenol | 263544 | | < 0.004 | < 0.004 | NA | < 0.004 | 101% | 60% | 130% | 106% | 60% | 130% | NA | 60% | 130% |
| 2,4-Dinitrotoluene | 263544 | | < 0.004 | < 0.004 | NA | < 0.004 | 113% | 60% | 130% | 112% | 60% | 130% | NA | 60% | 130% |
| 2,3,4,6-Tetrachlorophenol | 263544 | | < 0.004 | < 0.004 | NA | < 0.004 | 90% | 60% | 140% | 121% | 60% | 140% | NA | 60% | 140% |
| Hexachlorobenzene | 263544 | | < 0.004 | < 0.004 | NA | < 0.004 | 112% | 60% | 130% | 110% | 60% | 130% | NA | 60% | 130% |
| Dinoseb | 263544 | | < 0.004 | < 0.004 | NA | < 0.004 | 92% | 60% | 140% | 93% | 40% | 130% | NA | 30% | 150% |
| Benzo(a)pyrene | 263544 | | < 0.001 | < 0.001 | NA | < 0.001 | 108% | 60% | 130% | 101% | 60% | 130% | NA | 60% | 130% |
| O. Reg. 558 - VOCs | | | | | | | | | | | | | | | |
| Vinyl Chloride | 300766 | | < 0.030 | < 0.030 | NA | < 0.030 | 99% | 60% | 140% | 92% | 60% | 140% | 103% | 60% | 140% |
| 1,1 Dichloroethene | 300766 | | < 0.020 | < 0.020 | NA | < 0.020 | 106% | 70% | 130% | 87% | 70% | 130% | 107% | 60% | 140% |
| Dichloromethane | 300766 | | < 0.030 | < 0.030 | NA | < 0.030 | 97% | 70% | 130% | 85% | 70% | 130% | 102% | 60% | 140% |
| Methyl Ethyl Ketone | 300766 | | < 0.090 | < 0.090 | NA | < 0.090 | 87% | 70% | 130% | 106% | 70% | 130% | 116% | 60% | 140% |
| Chloroform | 300766 | | < 0.020 | < 0.020 | NA | < 0.020 | 88% | 70% | 130% | 87% | 70% | 130% | 87% | 60% | 140% |
| 1,2-Dichloroethane | 300766 | | < 0.020 | < 0.020 | NA | < 0.020 | 102% | 70% | 130% | 88% | 70% | 130% | 85% | 60% | 140% |

Quality Assurance

 CLIENT NAME: SNC LAVALIN INC
 PROJECT: City of Brampton Phase 2 ESA
 SAMPLING SITE:

 AGAT WORK ORDER: 19T483045
 ATTENTION TO: Robert Mitzakof
 SAMPLED BY:

Trace Organics Analysis (Continued)

| RPT Date: Jun 28, 2019 | | | DUPLICATE | | | | Method Blank | REFERENCE MATERIAL | | | METHOD BLANK SPIKE | | | MATRIX SPIKE | | |
|------------------------|--------|-----------|-----------|---------|------|----------------|--------------|--------------------|-------|----------|--------------------|-------|----------|-------------------|-------|--|
| PARAMETER | Batch | Sample Id | Dup #1 | Dup #2 | RPD | Measured Value | | Acceptable Limits | | Recovery | Acceptable Limits | | Recovery | Acceptable Limits | | |
| | | | | | | | | Lower | Upper | | Lower | Upper | | Lower | Upper | |
| Carbon Tetrachloride | 300766 | | < 0.020 | < 0.020 | NA | < 0.020 | 111% | 70% | 130% | 95% | 70% | 130% | 104% | 60% | 140% | |
| Benzene | 300766 | | < 0.020 | < 0.020 | NA | < 0.020 | 105% | 70% | 130% | 91% | 70% | 130% | 100% | 60% | 140% | |
| Trichloroethene | 300766 | | < 0.020 | < 0.020 | NA | < 0.020 | 85% | 70% | 130% | 97% | 70% | 130% | 111% | 60% | 140% | |
| Tetrachloroethene | 300766 | | < 0.050 | < 0.050 | NA | < 0.050 | 78% | 70% | 130% | 83% | 70% | 130% | 84% | 60% | 140% | |
| Chlorobenzene | 300766 | | < 0.010 | < 0.010 | NA | < 0.010 | 102% | 70% | 130% | 92% | 70% | 130% | 99% | 60% | 140% | |
| 1,2-Dichlorobenzene | 300766 | | < 0.010 | < 0.010 | NA | < 0.010 | 79% | 70% | 130% | 109% | 70% | 130% | 81% | 60% | 140% | |
| 1,4-Dichlorobenzene | 300766 | | < 0.010 | < 0.010 | NA | < 0.010 | 80% | 70% | 130% | 93% | 70% | 130% | 79% | 60% | 140% | |
| Toluene-d8 | 300766 | | < | < | 0.0% | < | 70% | 130% | | 130% | 130% | | 70% | 130% | | |
| Total PCBs (soil) | | | | | | | | | | | | | | | | |
| PCBs | 303098 | | < 0.1 | < 0.1 | NA | < 0.1 | 99% | 60% | 140% | 107% | 60% | 140% | 108% | 60% | 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).

Certified By:



Method Summary

CLIENT NAME: SNC LAVALIN INC

AGAT WORK ORDER: 19T483045

PROJECT: City of Brampton Phase 2 ESA

ATTENTION TO: Robert Mitzakov

SAMPLING SITE:

SAMPLED BY:

| PARAMETER | AGAT S.O.P | LITERATURE REFERENCE | ANALYTICAL TECHNIQUE |
|--------------------------------------|--------------|---|-------------------------|
| Soil Analysis | | | |
| Antimony | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Arsenic | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Barium | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Beryllium | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Boron | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Boron (Hot Water Soluble) | MET-93-6104 | EPA SW 846 6010C; MSA, Part 3, Ch.21 | ICP/OES |
| Cadmium | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Chromium | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Cobalt | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Copper | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Lead | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Molybdenum | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Nickel | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Selenium | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Silver | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Thallium | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Uranium | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Vanadium | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Zinc | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Chromium VI | INOR-93-6029 | SM 3500 B; MSA Part 3, Ch. 25 | SPECTROPHOTOMETER |
| Cyanide | INOR-93-6052 | MOE CN-3015 & E 3009 A; SM 4500 CN | TECHNICON AUTO ANALYZER |
| Mercury | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Electrical Conductivity | INOR-93-6036 | McKeague 4.12, SM 2510 B | EC METER |
| Sodium Adsorption Ratio | INOR-93-6007 | McKeague 4.12 & 3.26 & EPA SW-846 6010C | ICP/OES |
| pH, 2:1 CaCl ₂ Extraction | INOR-93-6031 | MSA part 3 & SM 4500-H+ B | PH METER |
| Arsenic Leachate | MET-93-6103 | EPA SW-846 1311 & 3010A & 6020A | ICP-MS |
| Barium Leachate | MET-93-6103 | EPA SW-846 1311 & 3010A & 6020A | ICP-MS |
| Boron Leachate | MET-93-6103 | EPA SW-846 1311 & 3010A & 6020A | ICP-MS |
| Cadmium Leachate | MET-93-6103 | EPA SW-846 1311 & 3010A & 6020A | ICP-MS |
| Chromium Leachate | MET-93-6103 | EPA SW-846 1311 & 3010A & 6020A | ICP-MS |
| Lead Leachate | MET-93-6103 | EPA SW-846 1311 & 3010A & 6020A | ICP-MS |
| Mercury Leachate | MET-93-6103 | EPA SW-846 1311 & 3010A & 6020A | ICP-MS |
| Selenium Leachate | MET-93-6103 | EPA SW-846 1311 & 3010A & 6020A | ICP-MS |
| Silver Leachate | MET-93-6103 | EPA SW-846 1311 & 3010A & 6020A | ICP-MS |
| Uranium Leachate | MET-93-6103 | EPA SW-846 1311 & 3010A & 6020A | ICP-MS |
| Fluoride Leachate | INOR-93-6018 | EPA SW-846-1311 & SM4500-F- C | ION SELECTIVE ELECTRODE |
| Cyanide Leachate | INOR-93-6052 | EPA SW-846-1311 & MOE 3015 & SM 4500 CN- I | TECHNICON AUTO ANALYZER |
| (Nitrate + Nitrite) as N Leachate | INOR-93-6053 | EPA SW 846-1311 & SM 4500 - NO ₃ - I | LACHAT FIA |

Method Summary

CLIENT NAME: SNC LAVALIN INC

AGAT WORK ORDER: 19T483045

PROJECT: City of Brampton Phase 2 ESA

ATTENTION TO: Robert Mitzakov

SAMPLING SITE:

SAMPLED BY:

| PARAMETER | AGAT S.O.P | LITERATURE REFERENCE | ANALYTICAL TECHNIQUE |
|--------------------------------|-------------|--------------------------------|----------------------|
| Trace Organics Analysis | | | |
| Hexachloroethane | ORG-91-5113 | EPA SW-846 3541,3620 & 8081 | GC/ECD |
| Gamma-Hexachlorocyclohexane | ORG-91-5113 | EPA SW-846 3541,3620 & 8081 | GC/ECD |
| Heptachlor | ORG-91-5113 | EPA SW-846 3541,3620 & 8081 | GC/ECD |
| Aldrin | ORG-91-5113 | EPA SW-846 3541,3620 & 8081 | GC/ECD |
| Heptachlor Epoxide | ORG-91-5113 | EPA SW-846 3541,3620 & 8081 | GC/ECD |
| Endosulfan | ORG-91-5113 | EPA SW-846 3541,3620 & 8081 | GC/ECD |
| Chlordane | ORG-91-5113 | EPA SW-846 3541,3620 & 8081 | GC/ECD |
| DDE | ORG-91-5113 | EPA SW-846 3541,3620 & 8081 | GC/ECD |
| DDD | ORG-91-5113 | EPA SW-846 3541,3620 & 8081 | GC/ECD |
| DDT | ORG-91-5113 | EPA SW-846 3541,3620 & 8081 | GC/ECD |
| Dieldrin | ORG-91-5113 | EPA SW-846 3541,3620 & 8081 | GC/ECD |
| Endrin | ORG-91-5113 | EPA SW-846 3541,3620 & 8081 | GC/ECD |
| Methoxychlor | ORG-91-5113 | EPA SW-846 3541,3620 & 8081 | GC/ECD |
| Hexachlorobenzene | ORG-91-5113 | EPA SW-846 3541,3620 & 8081 | GC/ECD |
| Hexachlorobutadiene | ORG-91-5113 | EPA SW-846 3541,3620 & 8081 | GC/ECD |
| TCMX | ORG-91-5112 | EPA SW-846 3541,3620 & 8081 | GC/ECD |
| Decachlorobiphenyl | ORG-91-5113 | EPA SW-846 3541,3620 & 8081 | GC/ECD |
| Moisture Content | | MOE E3139 | BALANCE |
| Naphthalene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Acenaphthylene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Acenaphthene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Fluorene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Phenanthrene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Anthracene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Fluoranthene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Pyrene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Benz(a)anthracene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Chrysene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Benzo(b)fluoranthene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Benzo(k)fluoranthene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Benzo(a)pyrene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Indeno(1,2,3-cd)pyrene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Dibenz(a,h)anthracene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Benzo(g,h,i)perylene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| 2-and 1-methyl Naphthalene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Chrysene-d12 | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| F1 (C6 to C10) | VOL-91-5009 | CCME Tier 1 Method, SW846 5035 | P&T GC/FID |
| F1 (C6 to C10) minus BTEX | VOL-91-5009 | CCME Tier 1 Method, SW846 5035 | P&T GC/FID |
| F2 (C10 to C16) | VOL-91-5009 | CCME Tier 1 Method | GC/FID |
| F3 (C16 to C34) | VOL-91-5009 | CCME Tier 1 Method | GC/FID |
| F4 (C34 to C50) | VOL-91-5009 | CCME Tier 1 Method | GC/FID |
| Gravimetric Heavy Hydrocarbons | VOL-91-5009 | CCME Tier 1 Method | BALANCE |
| Moisture Content | VOL-91-5009 | CCME Tier 1 Method | BALANCE |
| Terphenyl | VOL-91-5009 | CCME Tier 1 Method | GC/FID |
| 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 |

Method Summary

CLIENT NAME: SNC LAVALIN INC

AGAT WORK ORDER: 19T483045

PROJECT: City of Brampton Phase 2 ESA

ATTENTION TO: Robert Mitzakov

SAMPLING SITE:

SAMPLED BY:

| PARAMETER | AGAT S.O.P | LITERATURE REFERENCE | ANALYTICAL TECHNIQUE |
|-----------------------------|-------------|-------------------------|----------------------|
| 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 | EPA SW-846 5035 & 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 |
| Xylene Mixture | VOL-91-5002 | EPA SW-846 5035 & 8260D | (P&T)GC/MS |
| 1,3-Dichloropropene | 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 | EPA SW-846 5035 & 8260D | (P&T)GC/MS |
| 4-Bromofluorobenzene | VOL-91-5002 | EPA SW-846 5035 & 8260D | (P&T)GC/MS |
| Pyridine | ORG-91-5114 | EPA SW846 3510C & 8270 | GC/MS |
| Cresols | ORG-91-5114 | EPA SW846 3510C & 8270 | GC/MS |
| Ortho-Cresol | ORG-91-5114 | EPA SW846 3510C & 8270 | GC/MS |
| Meta & Para-Cresol | ORG-91-5114 | EPA SW846 3510C & 8270 | GC/MS |
| Hexachloroethane | ORG-91-5114 | EPA SW846 3510C & 8270 | GC/MS |
| Nitrobenzene | ORG-91-5114 | EPA SW846 3510C & 8270 | GC/MS |
| Hexachlorobutadiene | ORG-91-5114 | EPA SW846 3510C & 8270 | GC/MS |
| 2,4,6-Trichlorophenol | ORG-91-5114 | EPA SW846 3510C & 8270 | GC/MS |
| 2,4,5-Trichlorophenol | ORG-91-5114 | EPA SW846 3510C & 8270 | GC/MS |
| 2,4-Dinitrotoluene | ORG-91-5114 | EPA SW846 3510C & 8270 | GC/MS |
| 2,3,4,6-Tetrachlorophenol | ORG-91-5114 | EPA SW846 3510C & 8270 | GC/MS |
| Hexachlorobenzene | ORG-91-5114 | EPA SW846 3510C & 8270 | GC/MS |
| Dinoseb | ORG-91-5114 | EPA SW846 3510C & 8270 | GC/MS |

Method Summary

CLIENT NAME: SNC LAVALIN INC

AGAT WORK ORDER: 19T483045

PROJECT: City of Brampton Phase 2 ESA

ATTENTION TO: Robert Mitzakov

SAMPLING SITE:

SAMPLED BY:

| PARAMETER | AGAT S.O.P | LITERATURE REFERENCE | ANALYTICAL TECHNIQUE |
|---------------------------|-------------|--------------------------|----------------------|
| Benzo(a)pyrene | ORG-91-5114 | EPA SW846 3510C & 8270 | GC/MS |
| Chrysene-d12 | ORG-91-5114 | EPA SW846 3510C & 8270 | GC/MS |
| BNA Extr | ORG-91-5114 | EPA SW846 3510C & 8270 | N/A |
| Vinyl Chloride | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| 1,1 Dichloroethene | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Dichloromethane | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Methyl Ethyl Ketone | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Chloroform | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| 1,2-Dichloroethane | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Carbon Tetrachloride | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Benzene | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Trichloroethene | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Tetrachloroethene | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Chlorobenzene | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| 1,2-Dichlorobenzene | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| 1,4-Dichlorobenzene | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Toluene-d8 | VOL-91-5001 | EPA SW-846 5230B & 8260 | (P&T)GC/MS |
| 2,4-D | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| 2,4,5-T | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| 2,4,5-TP (Silvex) | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| Dicamba | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| Dichlorprop | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| Dinoseb | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| Picloram | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| Diclofop-methyl | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| 2,3,4,6-Tetrachlorophenol | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| 2,4-Dichlorophenol | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| 2,4,5-Trichlorophenol | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| 2,4,6-Trichlorophenol | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| Bromoxynil | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| MCP (Mecoprop) | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| MCPA | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| Pentachlorophenol | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| DCAA | ORG-91-5110 | EPA SW-846 8151 | GC/ECD |
| Phenoxy Extr | | | N/A |
| PCBs | ORG-91-5113 | EPA SW-846 3541 & 8082 | GC/ECD |
| Decachlorobiphenyl | ORG-91-5113 | EPA SW-846 3541 & 8082 | GC/ECD |



ISM

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

Laboratory Use Only

Work Order #: 19T483045

Cooler Quantity: _____

Arrival Temperatures: 46 39 41

Custody Seal Intact: Yes No N/A

Notes: on ice

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: SNC-Lavalin Inc.

Contact: Robert Mitzakov

Address: 195 The West Mall
Toronto, ON M9C 5K1

Phone: _____ Fax: _____

Reports to be sent to:

1. Email: robert.mitzakov@snc-lavalin.com

2. Email: abcd.yassine@snc-lavalin.com

Regulatory Requirements: No Regulatory Requirement

(Please check all applicable boxes)

Regulation 153/04 Sewer Use Regulation 558

Table 9 Sanitary CCME

Ind/Com Storm Prov. Water Quality Objectives (PWQO)

Res/Park Agriculture Other

Soil Texture (Check One) Region _____

Coarse MISA Fine Indicate One

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

Project Information:

Project: City of Brampton - Phase II ESA

Site Location: 10192 Hwy 50, Brampton, ON

Sampled By: Ariel Barr-Keating → PN: 665125

AGAT Quote #: _____ PO: _____

Please note: If quotation number is not provided, client will be billed full price for analysis.

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

Invoice Information:

Bill To Same: Yes No

Company: _____

Contact: _____

Address: _____

Email: _____

| Sample Identification | Date Sampled | Time Sampled | # of Containers | Sample Matrix | Comments/ Special Instructions | Y / N | Field Filtered - Metals, Hg, CrVI | Metals and Inorganics | O. Reg 153 | Regulation/Custom Metals | Nutrients: TP, NH ₄ , TKN, NO ₃ , NO ₂ , NO ₃ +NO ₂ | Volatiles: VOC, BTEX, THM | PHCs F1 - F4, VOC's | ABNs | PAHs | PCBs: Total, Aroclors | Organochlorine Pesticides | TCLP: M&I, VOCs, ABNs, B(a)P, PCBs | Sewer Use | Potentially Hazardous or High Concentration (Y/N) | |
|-----------------------|--------------|--------------|-----------------|---------------|-----------------------------------|-------|-----------------------------------|--|--|--------------------------|--|---------------------------|---------------------|------|------|-----------------------|---------------------------|------------------------------------|-----------|---|--|
| BH33-2 | 06/19/19 | 9AM | 1 | Soil | | | | <input type="checkbox"/> All Metals <input type="checkbox"/> 153 Metals (excl. Hydrides) <input type="checkbox"/> Hydride Metals <input type="checkbox"/> 153 Metals (Incl. Hydrides) | <input type="checkbox"/> B-HWS <input type="checkbox"/> Cl <input type="checkbox"/> CN <input type="checkbox"/> Cr ⁶⁺ <input type="checkbox"/> EC <input type="checkbox"/> FOC <input type="checkbox"/> Hg <input type="checkbox"/> pH <input type="checkbox"/> SAR | | | | | | | | | | | | |
| BH33-22 | | 9AM | 1 | | | | | | | | | | | | | | | | | | |
| BH33-3 | | 9:15am | 2 | | | | | | | | | | | | | | | | | | |
| BH33-7 | | 9:50am | 4 | | | | | | | | | | | | | | | | | | |
| BH33-77 | | 9:50am | 4 | | | | | | | | | | | | | | | | | | |
| COMP-1 | | 2PM | 4 | | | | | | | | | | | | | | | | | | |

| | | | | | |
|---|--------------------------|-------|--|-------------------------|---------------------|
| Samples Relinquished By (Print Name and Sign): <u>Ariel Barr-Keating / ABK</u> | Date: <u>06/19/19</u> | Time: | Samples Received By (Print Name and Sign): <u>Simoi</u> | Date: <u>19/6/21</u> | Time: <u>843</u> |
| 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 _____ of _____
No: **T 090354**

CLIENT NAME: SNC LAVALIN INC
235 LESMILL ROAD
TORONTO, ON M3B 2V1
(416) 679-6000

ATTENTION TO: Robert Mitzakov

PROJECT: City Of Brampton Phase 2 ESA

AGAT WORK ORDER: 19T483131

SOIL ANALYSIS REVIEWED BY: Amanjot Bhela, Inorganic Supervisor

TRACE ORGANICS REVIEWED BY: Inga Kuzmina, Trace Organics Lab Manager

DATE REPORTED: Jun 27, 2019

PAGES (INCLUDING COVER): 19

VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (905) 712-5100

*NOTES

All samples will be disposed of within 30 days following analysis. Please contact the lab if you require additional sample storage time.



Certificate of Analysis

AGAT WORK ORDER: 19T483131

PROJECT: City Of Brampton Phase 2 ESA

5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
TEL (905)712-5100
FAX (905)712-5122
<http://www.agatlabs.com>

CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Robert Mitzakov

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - Metals & Inorganics (Soil)

DATE RECEIVED: 2019-06-21

DATE REPORTED: 2019-06-27

| Parameter | Unit | SAMPLE DESCRIPTION: | | BH72-1 | BH73-02 |
|---------------------------|----------|---------------------|-------|------------|------------|
| | | SAMPLE TYPE: | | Soil | Soil |
| | | DATE SAMPLED: | | 2019-06-20 | 2019-06-20 |
| | | G / S | RDL | 294297 | 294303 |
| Antimony | µg/g | 1.3 | 0.8 | <0.8 | <0.8 |
| Arsenic | µg/g | 18 | 1 | 4 | 4 |
| Barium | µg/g | 220 | 2 | 59 | 117 |
| Beryllium | µg/g | 2.5 | 0.5 | <0.5 | <0.5 |
| Boron | µg/g | 36 | 5 | 7 | 6 |
| Boron (Hot Water Soluble) | µg/g | 1.5 | 0.10 | 0.47 | <0.10 |
| Cadmium | µg/g | 1.2 | 0.5 | <0.5 | <0.5 |
| Chromium | µg/g | 70 | 2 | 14 | 24 |
| Cobalt | µg/g | 22 | 0.5 | 3.9 | 10.0 |
| Copper | µg/g | 92 | 1 | 17 | 21 |
| Lead | µg/g | 120 | 1 | 38 | 10 |
| Molybdenum | µg/g | 2 | 0.5 | 1.0 | <0.5 |
| Nickel | µg/g | 82 | 1 | 10 | 23 |
| Selenium | µg/g | 1.5 | 0.4 | <0.4 | 0.4 |
| Silver | µg/g | 0.5 | 0.2 | <0.2 | <0.2 |
| Thallium | µg/g | 1 | 0.4 | <0.4 | <0.4 |
| Uranium | µg/g | 2.5 | 0.5 | 0.5 | 0.5 |
| Vanadium | µg/g | 86 | 1 | 21 | 34 |
| Zinc | µg/g | 290 | 5 | 93 | 55 |
| Chromium VI | µg/g | 0.66 | 0.2 | <0.2 | <0.2 |
| Cyanide | µg/g | 0.051 | 0.040 | <0.040 | <0.040 |
| Mercury | µg/g | 0.27 | 0.10 | <0.10 | <0.10 |
| Electrical Conductivity | mS/cm | 0.7 | 0.005 | 1.07 | 0.379 |
| Sodium Adsorption Ratio | NA | 5 | NA | 0.853 | 0.544 |
| pH, 2:1 CaCl2 Extraction | pH Units | | NA | 10.6 | 7.85 |

Certified By:

Anamjot Bhela




AGAT Laboratories

Certificate of Analysis

AGAT WORK ORDER: 19T483131

PROJECT: City Of Brampton Phase 2 ESA

5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
TEL (905)712-5100
FAX (905)712-5122
<http://www.agatlabs.com>

CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Robert Mitzakov

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - Metals & Inorganics (Soil)

DATE RECEIVED: 2019-06-21

DATE REPORTED: 2019-06-27

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 9: Generic Site Condition Standards for Use within 30 m of a Water Body in a Non-Potable Ground Water Condition - 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.
294297-294303 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:

Anamjot Bhela




Certificate of Analysis

AGAT WORK ORDER: 19T483131

PROJECT: City Of Brampton Phase 2 ESA

5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
TEL (905)712-5100
FAX (905)712-5122
<http://www.agatlabs.com>

CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Robert Mitzakov

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - OC Pesticides (Soil)

DATE RECEIVED: 2019-06-21

DATE REPORTED: 2019-06-27

| SAMPLE DESCRIPTION: | | BH72-2 | | |
|-----------------------------|------|-------------------|-------|--------|
| SAMPLE TYPE: | | Soil | | |
| DATE SAMPLED: | | 2019-06-20 | | |
| Parameter | Unit | G / S | RDL | 294298 |
| Hexachloroethane | µg/g | 0.01 | 0.01 | <0.01 |
| Gamma-Hexachlorocyclohexane | µg/g | 0.01 | 0.005 | <0.005 |
| Heptachlor | µg/g | 0.05 | 0.005 | <0.005 |
| Aldrin | µg/g | 0.05 | 0.005 | <0.005 |
| Heptachlor Epoxide | µg/g | 0.05 | 0.005 | <0.005 |
| Endosulfan | µg/g | 0.04 | 0.005 | <0.005 |
| Chlordane | µg/g | 0.05 | 0.007 | <0.007 |
| DDE | µg/g | 0.05 | 0.007 | <0.007 |
| DDD | µg/g | 0.05 | 0.007 | <0.007 |
| DDT | µg/g | 1.4 | 0.007 | <0.007 |
| Dieldrin | µg/g | 0.05 | 0.005 | <0.005 |
| Endrin | µg/g | 0.04 | 0.005 | <0.005 |
| Methoxychlor | µg/g | 0.05 | 0.005 | <0.005 |
| Hexachlorobenzene | µg/g | 0.02 | 0.005 | <0.005 |
| Hexachlorobutadiene | µg/g | 0.01 | 0.01 | <0.01 |
| Moisture Content | % | | 0.1 | 20.1 |
| Surrogate | Unit | Acceptable Limits | | |
| TCMX | % | 50-140 | | 72 |
| Decachlorobiphenyl | % | 60-130 | | 76 |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 9: Generic Site Condition Standards for Use within 30 m of a Water Body in a Non-Potable Ground Water Condition - 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.

294298 Results are based on the dry weight of the soil.
DDT total is a calculated parameter. The calculated value is the sum of op/DDT and pp/DDT.
DDD total is a calculated parameter. The calculated value is the sum of op/DDD and pp/DDD.
DDE total is a calculated parameter. The calculated value is the sum of op/DDE and pp/DDE.
Endosulfan total is a calculated parameter. The calculated value is the sum of Endosulfan I and Endosulfan II.
Chlordane total is a calculated parameter. The calculated value is the sum of Alpha-Chlordane and Gamma-Chlordane.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 19T483131

PROJECT: City Of Brampton Phase 2 ESA

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CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Robert Mitzakov

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - PAHs (Soil)

DATE RECEIVED: 2019-06-21

DATE REPORTED: 2019-06-27

| Parameter | Unit | SAMPLE DESCRIPTION: | | BH72-3 | BH73-02 |
|----------------------------|------|---------------------|------|--------|---------|
| | | G / S | RDL | 294299 | 294303 |
| Naphthalene | µg/g | 0.09 | 0.05 | <0.05 | <0.05 |
| Acenaphthylene | µg/g | 0.093 | 0.05 | <0.05 | <0.05 |
| Acenaphthene | µg/g | 0.072 | 0.05 | <0.05 | <0.05 |
| Fluorene | µg/g | 0.19 | 0.05 | <0.05 | <0.05 |
| Phenanthrene | µg/g | 0.69 | 0.05 | <0.05 | <0.05 |
| Anthracene | µg/g | 0.22 | 0.05 | <0.05 | <0.05 |
| Fluoranthene | µg/g | 0.69 | 0.05 | <0.05 | <0.05 |
| Pyrene | µg/g | 1 | 0.05 | <0.05 | <0.05 |
| Benz(a)anthracene | µg/g | 0.36 | 0.05 | <0.05 | <0.05 |
| Chrysene | µg/g | 2.8 | 0.05 | <0.05 | <0.05 |
| Benzo(b)fluoranthene | µg/g | 0.47 | 0.05 | <0.05 | <0.05 |
| Benzo(k)fluoranthene | µg/g | 0.48 | 0.05 | <0.05 | <0.05 |
| Benzo(a)pyrene | µg/g | 0.3 | 0.05 | <0.05 | <0.05 |
| Indeno(1,2,3-cd)pyrene | µg/g | 0.23 | 0.05 | <0.05 | <0.05 |
| Dibenz(a,h)anthracene | µg/g | 0.1 | 0.05 | <0.05 | <0.05 |
| Benzo(g,h,i)perylene | µg/g | 0.68 | 0.05 | <0.05 | <0.05 |
| 2-and 1-methyl Naphthalene | µg/g | 0.59 | 0.05 | <0.05 | <0.05 |
| Moisture Content | % | | 0.1 | 14.0 | 17.8 |
| Surrogate | Unit | Acceptable Limits | | | |
| Chrysene-d12 | % | 50-140 | | 71 | 79 |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 9: Generic Site Condition Standards for Use within 30 m of a Water Body in a Non-Potable Ground Water Condition - 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.

294299-294303 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:



Certificate of Analysis

AGAT WORK ORDER: 19T483131

PROJECT: City Of Brampton Phase 2 ESA

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CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Robert Mitzakov

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2019-06-21

DATE REPORTED: 2019-06-27

| Parameter | Unit | SAMPLE DESCRIPTION: | | BH72-8 | BH73-07 |
|--------------------------------|------|---------------------|-----|--------|---------|
| | | G / S | RDL | 294301 | 294305 |
| F1 (C6 to C10) | µg/g | | 5 | <5 | <5 |
| F1 (C6 to C10) minus BTEX | µg/g | 25 | 5 | <5 | <5 |
| F2 (C10 to C16) | µg/g | 10 | 10 | <10 | <10 |
| F3 (C16 to C34) | µg/g | 240 | 50 | <50 | <50 |
| F4 (C34 to C50) | µg/g | 120 | 50 | <50 | <50 |
| Gravimetric Heavy Hydrocarbons | µg/g | 120 | 50 | NA | NA |
| Moisture Content | % | | 0.1 | 9.0 | 7.9 |
| Surrogate | Unit | Acceptable Limits | | | |
| Terphenyl | % | 60-140 | | 71 | 60 |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 9: Generic Site Condition Standards for Use within 30 m of a Water Body in a Non-Potable Ground Water Condition - 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.

294301-294305

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 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 contribution.
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC6 and nC10 response factors are within 30% of Toluene response factor.
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.
Fractions 1-4 are quantified without the contribution of PAHs. Under Ontario Regulation 153, results are considered valid without determining the PAH contribution if not requested by the client.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 19T483131

PROJECT: City Of Brampton Phase 2 ESA

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CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Robert Mitzakov

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - VOCs (Soil)

DATE RECEIVED: 2019-06-21

DATE REPORTED: 2019-06-27

| Parameter | Unit | SAMPLE DESCRIPTION: | | BH72-8 | BH73-07 |
|-----------------------------|------|---------------------|------|------------|------------|
| | | SAMPLE TYPE: | | Soil | Soil |
| | | DATE SAMPLED: | | 2019-06-20 | 2019-06-20 |
| | | G / S | RDL | 294301 | 294305 |
| Dichlorodifluoromethane | µg/g | 0.05 | 0.05 | <0.05 | <0.05 |
| Vinyl Chloride | ug/g | 0.02 | 0.02 | <0.02 | <0.02 |
| Bromomethane | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| Trichlorofluoromethane | ug/g | 0.25 | 0.05 | <0.05 | <0.05 |
| Acetone | ug/g | 0.5 | 0.50 | <0.50 | <0.50 |
| 1,1-Dichloroethylene | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| Methylene Chloride | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| Trans- 1,2-Dichloroethylene | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| Methyl tert-butyl Ether | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| 1,1-Dichloroethane | ug/g | 0.05 | 0.02 | <0.02 | <0.02 |
| Methyl Ethyl Ketone | ug/g | 0.5 | 0.50 | <0.50 | <0.50 |
| Cis- 1,2-Dichloroethylene | ug/g | 0.05 | 0.02 | <0.02 | <0.02 |
| Chloroform | ug/g | 0.05 | 0.04 | <0.04 | <0.04 |
| 1,2-Dichloroethane | ug/g | 0.05 | 0.03 | <0.03 | <0.03 |
| 1,1,1-Trichloroethane | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| Carbon Tetrachloride | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| Benzene | ug/g | 0.02 | 0.02 | <0.02 | <0.02 |
| 1,2-Dichloropropane | ug/g | 0.05 | 0.03 | <0.03 | <0.03 |
| Trichloroethylene | ug/g | 0.05 | 0.03 | <0.03 | <0.03 |
| Bromodichloromethane | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| Methyl Isobutyl Ketone | ug/g | 0.5 | 0.50 | <0.50 | <0.50 |
| 1,1,2-Trichloroethane | ug/g | 0.05 | 0.04 | <0.04 | <0.04 |
| Toluene | ug/g | 0.2 | 0.05 | <0.05 | <0.05 |
| Dibromochloromethane | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| Ethylene Dibromide | ug/g | 0.05 | 0.04 | <0.04 | <0.04 |
| Tetrachloroethylene | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| 1,1,1,2-Tetrachloroethane | ug/g | 0.05 | 0.04 | <0.04 | <0.04 |
| Chlorobenzene | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| Ethylbenzene | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| m & p-Xylene | ug/g | | 0.05 | <0.05 | <0.05 |

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Certificate of Analysis

AGAT WORK ORDER: 19T483131

PROJECT: City Of Brampton Phase 2 ESA

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CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Robert Mitzakov

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - VOCs (Soil)

DATE RECEIVED: 2019-06-21

DATE REPORTED: 2019-06-27

| | | SAMPLE DESCRIPTION: | | BH72-8 | BH73-07 |
|---------------------------|------------|---------------------|------|------------|------------|
| | | SAMPLE TYPE: | | Soil | Soil |
| | | DATE SAMPLED: | | 2019-06-20 | 2019-06-20 |
| Parameter | Unit | G / S | RDL | 294301 | 294305 |
| Bromoform | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| Styrene | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| 1,1,2,2-Tetrachloroethane | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| o-Xylene | ug/g | | 0.05 | <0.05 | <0.05 |
| 1,3-Dichlorobenzene | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| 1,4-Dichlorobenzene | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| 1,2-Dichlorobenzene | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| Xylene Mixture | ug/g | 0.05 | 0.05 | <0.05 | <0.05 |
| 1,3-Dichloropropene | µg/g | 0.05 | 0.04 | <0.04 | <0.04 |
| n-Hexane | µg/g | 0.05 | 0.05 | <0.05 | <0.05 |
| Surrogate | Unit | Acceptable Limits | | | |
| Toluene-d8 | % Recovery | 50-140 | | 109 | 108 |
| 4-Bromofluorobenzene | % Recovery | 50-140 | | 76 | 76 |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 9: Generic Site Condition Standards for Use within 30 m of a Water Body in a Non-Potable Ground Water Condition - 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.

294301-294305 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:



Certificate of Analysis

AGAT WORK ORDER: 19T483131

PROJECT: City Of Brampton Phase 2 ESA

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CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Robert Mitzakov

SAMPLING SITE:

SAMPLED BY:

Phenoxy Acid Herbicides (Soil)

DATE RECEIVED: 2019-06-21

DATE REPORTED: 2019-06-27

SAMPLE DESCRIPTION: BH72-2
SAMPLE TYPE: Soil
DATE SAMPLED: 2019-06-20

| Parameter | Unit | G / S | RDL | 294298 |
|---------------------------|------|-------------------|------|--------|
| 2,4-D | ug/g | | 0.10 | <0.10 |
| 2,4,5-T | ug/g | | 0.10 | <0.10 |
| 2,4,5-TP (Silvex) | ug/g | | 0.10 | <0.10 |
| Dicamba | ug/g | | 0.10 | <0.10 |
| Dichlorprop | ug/g | | 0.10 | <0.10 |
| Dinoseb | ug/g | | 0.10 | <0.10 |
| Picloram | ug/g | | 0.10 | <0.10 |
| Diclofop-methyl | ug/g | | 0.10 | <0.10 |
| 2,3,4,6-Tetrachlorophenol | ug/g | | 0.05 | <0.05 |
| 2,4-Dichlorophenol | ug/g | 0.1 | 0.05 | <0.05 |
| 2,4,5-Trichlorophenol | ug/g | 0.1 | 0.05 | <0.05 |
| 2,4,6-Trichlorophenol | ug/g | 0.1 | 0.05 | <0.05 |
| Bromoxynil | ug/g | | 0.5 | <0.5 |
| MCP (Mecoprop) | ug/g | | 1.0 | <1.0 |
| MCPA | ug/g | | 1.0 | <1.0 |
| Pentachlorophenol | ug/g | 0.1 | 0.05 | <0.05 |
| Phenoxy Extr | NA | | | Y |
| Surrogate | Unit | Acceptable Limits | | |
| DCAA | % | 50-130 | | 80 |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 9: Generic Site Condition Standards for Use within 30 m of a Water Body in a Non-Potable Ground Water Condition - 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.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:



Guideline Violation

AGAT WORK ORDER: 19T483131

PROJECT: City Of Brampton Phase 2 ESA

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CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Robert Mitzakov

| SAMPLEID | SAMPLE TITLE | GUIDELINE | ANALYSIS PACKAGE | PARAMETER | UNIT | GUIDEVALUE | RESULT |
|----------|--------------|-----------------|---|-------------------------|-------|------------|--------|
| 294297 | BH72-1 | ON T9 S RPI/ICC | O. Reg. 153(511) - Metals & Inorganics (Soil) | Electrical Conductivity | mS/cm | 0.7 | 1.07 |

Quality Assurance

 CLIENT NAME: SNC LAVALIN INC
 PROJECT: City Of Brampton Phase 2 ESA
 SAMPLING SITE:

 AGAT WORK ORDER: 19T483131
 ATTENTION TO: Robert Mitzakov
 SAMPLED BY:

Soil Analysis

| RPT Date: Jun 27, 2019 | | | DUPLICATE | | | Method Blank | REFERENCE MATERIAL | | | METHOD BLANK SPIKE | | MATRIX SPIKE | | | |
|---|--------|-----------|-----------|--------|-------|--------------|--------------------|-------------------|-------|--------------------|-------------------|--------------|----------|-------------------|-------|
| PARAMETER | Batch | Sample Id | Dup #1 | Dup #2 | RPD | | Measured Value | Acceptable Limits | | Recovery | Acceptable Limits | | Recovery | Acceptable Limits | |
| | | | | | | | | Lower | Upper | | Lower | Upper | | Lower | Upper |
| O. Reg. 153(511) - Metals & Inorganics (Soil) | | | | | | | | | | | | | | | |
| Antimony | 299837 | | <0.8 | <0.8 | NA | < 0.8 | 126% | 70% | 130% | 102% | 80% | 120% | 102% | 70% | 130% |
| Arsenic | 299837 | | 1 | 1 | NA | < 1 | 105% | 70% | 130% | 101% | 80% | 120% | 106% | 70% | 130% |
| Barium | 299837 | | 10 | 10 | 0.0% | < 2 | 100% | 70% | 130% | 102% | 80% | 120% | 105% | 70% | 130% |
| Beryllium | 299837 | | <0.5 | <0.5 | NA | < 0.5 | 71% | 70% | 130% | 101% | 80% | 120% | 95% | 70% | 130% |
| Boron | 299837 | | <5 | <5 | NA | < 5 | 83% | 70% | 130% | 105% | 80% | 120% | 102% | 70% | 130% |
| Boron (Hot Water Soluble) | 299837 | | <0.10 | <0.10 | NA | < 0.10 | 102% | 60% | 140% | 96% | 70% | 130% | 97% | 60% | 140% |
| Cadmium | 299837 | | <0.5 | <0.5 | NA | < 0.5 | 102% | 70% | 130% | 101% | 80% | 120% | 101% | 70% | 130% |
| Chromium | 299837 | | 4 | 4 | NA | < 2 | 85% | 70% | 130% | 103% | 80% | 120% | 109% | 70% | 130% |
| Cobalt | 299837 | | 1.5 | 1.6 | NA | < 0.5 | 92% | 70% | 130% | 102% | 80% | 120% | 104% | 70% | 130% |
| Copper | 299837 | | 6 | 6 | 0.0% | < 1 | 91% | 70% | 130% | 112% | 80% | 120% | 103% | 70% | 130% |
| Lead | 299837 | | 5 | 5 | 0.0% | < 1 | 102% | 70% | 130% | 106% | 80% | 120% | 102% | 70% | 130% |
| Molybdenum | 299837 | | <0.5 | <0.5 | NA | < 0.5 | 103% | 70% | 130% | 104% | 80% | 120% | 107% | 70% | 130% |
| Nickel | 299837 | | 4 | 4 | NA | < 1 | 95% | 70% | 130% | 104% | 80% | 120% | 103% | 70% | 130% |
| Selenium | 299837 | | <0.4 | <0.4 | NA | < 0.4 | 113% | 70% | 130% | 99% | 80% | 120% | 100% | 70% | 130% |
| Silver | 299837 | | <0.2 | <0.2 | NA | < 0.2 | 95% | 70% | 130% | 99% | 80% | 120% | 96% | 70% | 130% |
| Thallium | 299837 | | <0.4 | <0.4 | NA | < 0.4 | 95% | 70% | 130% | 98% | 80% | 120% | 96% | 70% | 130% |
| Uranium | 299837 | | <0.5 | <0.5 | NA | < 0.5 | 108% | 70% | 130% | 98% | 80% | 120% | 100% | 70% | 130% |
| Vanadium | 299837 | | 8 | 9 | 11.8% | < 1 | 92% | 70% | 130% | 101% | 80% | 120% | 109% | 70% | 130% |
| Zinc | 299837 | | 26 | 26 | 0.0% | < 5 | 95% | 70% | 130% | 110% | 80% | 120% | 113% | 70% | 130% |
| Chromium VI | 292932 | | <0.2 | <0.2 | NA | < 0.2 | 107% | 70% | 130% | 98% | 80% | 120% | 94% | 70% | 130% |
| Cyanide | 300435 | | <0.040 | <0.040 | NA | < 0.040 | 95% | 70% | 130% | 107% | 80% | 120% | 100% | 70% | 130% |
| Mercury | 299837 | | <0.10 | <0.10 | NA | < 0.10 | 91% | 70% | 130% | 98% | 80% | 120% | 97% | 70% | 130% |
| Electrical Conductivity | 299837 | | 0.325 | 0.333 | 2.4% | < 0.005 | 102% | 90% | 110% | NA | | | NA | | |
| Sodium Adsorption Ratio | 299837 | | 4.85 | 4.85 | 0.0% | NA | NA | | | NA | | | NA | | |
| pH, 2:1 CaCl2 Extraction | 294297 | 294297 | 10.6 | 10.6 | 0.0% | NA | 103% | 80% | 120% | NA | | | NA | | |

Comments: NA signifies Not Applicable.

Duplicate Qualifier: As the measured result approaches the RL, the uncertainty associated with the value increases dramatically, thus duplicate acceptance limits apply only where the average of the two duplicates is greater than five times the RL

pH duplicates QA acceptance criteria was met relative as stated in Table 5-15 of Analytical Protocol document.

Certified By:



Quality Assurance

CLIENT NAME: SNC LAVALIN INC
 PROJECT: City Of Brampton Phase 2 ESA
 SAMPLING SITE:

AGAT WORK ORDER: 19T483131
 ATTENTION TO: Robert Mitzakov
 SAMPLED BY:

Trace Organics Analysis

| RPT Date: Jun 27, 2019 | | | DUPLICATE | | | Method Blank | REFERENCE MATERIAL | | | METHOD BLANK SPIKE | | | MATRIX SPIKE | | |
|------------------------|-------|-----------|-----------|--------|-----|--------------|--------------------|-------------------|-------|--------------------|-------------------|-------|--------------|-------------------|-------|
| PARAMETER | Batch | Sample Id | Dup #1 | Dup #2 | RPD | | Measured Value | Acceptable Limits | | Recovery | Acceptable Limits | | Recovery | Acceptable Limits | |
| | | | | | | | | Lower | Upper | | Lower | Upper | | Lower | Upper |

Phenoxy Acid Herbicides (Soil)

| | | | | | | | | | | | | | | | |
|---------------------------|--------|--|--------|--------|----|--------|------|-----|------|------|-----|------|------|-----|------|
| 2,4-D | 268398 | | < 0.10 | < 0.10 | NA | < 0.10 | 100% | 50% | 130% | 98% | 50% | 130% | 100% | 50% | 130% |
| 2,4,5-T | 268398 | | < 0.10 | < 0.10 | NA | < 0.10 | 90% | 50% | 130% | 90% | 50% | 130% | 92% | 50% | 130% |
| 2,4,5-TP (Silvex) | 268398 | | < 0.10 | < 0.10 | NA | < 0.10 | 92% | 50% | 130% | 85% | 50% | 130% | 70% | 50% | 130% |
| Dicamba | 268398 | | < 0.10 | < 0.10 | NA | < 0.10 | 97% | 50% | 130% | 86% | 50% | 130% | 76% | 50% | 130% |
| Dichlorprop | 268398 | | < 0.10 | < 0.10 | NA | < 0.10 | 102% | 50% | 130% | 90% | 50% | 130% | 80% | 50% | 130% |
| Dinoseb | 268398 | | < 0.10 | < 0.10 | NA | < 0.10 | 75% | 50% | 130% | 65% | 50% | 130% | 63% | 50% | 130% |
| Picloram | 268398 | | < 0.10 | < 0.10 | NA | < 0.10 | 103% | 50% | 130% | 80% | 50% | 130% | 64% | 50% | 130% |
| Diclofop-methyl | 268398 | | < 0.10 | < 0.10 | NA | < 0.10 | 105% | 50% | 130% | 101% | 50% | 130% | 95% | 50% | 130% |
| 2,3,4,6-Tetrachlorophenol | 268398 | | < 0.05 | < 0.05 | NA | < 0.05 | 117% | 50% | 130% | 101% | 50% | 130% | 97% | 50% | 130% |
| 2,4-Dichlorophenol | 268398 | | < 0.05 | < 0.05 | NA | < 0.05 | 99% | 50% | 130% | 90% | 50% | 130% | 74% | 50% | 130% |
| 2,4,5-Trichlorophenol | 268398 | | < 0.05 | < 0.05 | NA | < 0.05 | 90% | 50% | 130% | 85% | 50% | 130% | 70% | 50% | 130% |
| 2,4,6-Trichlorophenol | 268398 | | < 0.05 | < 0.05 | NA | < 0.05 | 111% | 50% | 130% | 101% | 50% | 130% | 97% | 50% | 130% |
| Bromoxynil | 268398 | | < 0.5 | < 0.5 | NA | < 0.5 | 98% | 60% | 130% | 95% | 60% | 130% | 94% | 60% | 130% |
| MCPP (Mecoprop) | 268398 | | < 1.0 | < 1.0 | NA | < 1.0 | NA | 50% | 130% | 100% | 50% | 130% | 80% | 50% | 130% |
| MCPA | 268398 | | < 1.0 | < 1.0 | NA | < 1.0 | NA | 50% | 130% | 98% | 50% | 130% | 90% | 50% | 130% |
| Pentachlorophenol | 268398 | | < 0.05 | < 0.05 | NA | < 0.05 | 94% | 50% | 130% | 90% | 50% | 130% | 80% | 50% | 130% |

O. Reg. 153(511) - PAHs (Soil)

| | | | | | | | | | | | | | | | |
|------------------------|--------|--|--------|--------|----|--------|------|-----|------|------|-----|------|-----|-----|------|
| Naphthalene | 292180 | | < 0.05 | < 0.05 | NA | < 0.05 | 112% | 50% | 140% | 88% | 50% | 140% | 72% | 50% | 140% |
| Acenaphthylene | 292180 | | < 0.05 | < 0.05 | NA | < 0.05 | 113% | 50% | 140% | 92% | 50% | 140% | 73% | 50% | 140% |
| Acenaphthene | 292180 | | < 0.05 | < 0.05 | NA | < 0.05 | 108% | 50% | 140% | 92% | 50% | 140% | 74% | 50% | 140% |
| Fluorene | 292180 | | < 0.05 | < 0.05 | NA | < 0.05 | 112% | 50% | 140% | 89% | 50% | 140% | 75% | 50% | 140% |
| Phenanthrene | 292180 | | < 0.05 | < 0.05 | NA | < 0.05 | 107% | 50% | 140% | 80% | 50% | 140% | 67% | 50% | 140% |
| Anthracene | 292180 | | < 0.05 | < 0.05 | NA | < 0.05 | 94% | 50% | 140% | 81% | 50% | 140% | 67% | 50% | 140% |
| Fluoranthene | 292180 | | < 0.05 | < 0.05 | NA | < 0.05 | 119% | 50% | 140% | 98% | 50% | 140% | 79% | 50% | 140% |
| Pyrene | 292180 | | < 0.05 | < 0.05 | NA | < 0.05 | 116% | 50% | 140% | 99% | 50% | 140% | 77% | 50% | 140% |
| Benz(a)anthracene | 292180 | | < 0.05 | < 0.05 | NA | < 0.05 | 62% | 50% | 140% | 101% | 50% | 140% | 68% | 50% | 140% |
| Chrysene | 292180 | | < 0.05 | < 0.05 | NA | < 0.05 | 112% | 50% | 140% | 101% | 50% | 140% | 73% | 50% | 140% |
| Benzo(b)fluoranthene | 292180 | | < 0.05 | < 0.05 | NA | < 0.05 | 111% | 50% | 140% | 70% | 50% | 140% | 72% | 50% | 140% |
| Benzo(k)fluoranthene | 292180 | | < 0.05 | < 0.05 | NA | < 0.05 | 116% | 50% | 140% | 70% | 50% | 140% | 65% | 50% | 140% |
| Benzo(a)pyrene | 292180 | | < 0.05 | < 0.05 | NA | < 0.05 | 108% | 50% | 140% | 78% | 50% | 140% | 61% | 50% | 140% |
| Indeno(1,2,3-cd)pyrene | 292180 | | < 0.05 | < 0.05 | NA | < 0.05 | 74% | 50% | 140% | 86% | 50% | 140% | 69% | 50% | 140% |
| Dibenz(a,h)anthracene | 292180 | | < 0.05 | < 0.05 | NA | < 0.05 | 66% | 50% | 140% | 85% | 50% | 140% | 66% | 50% | 140% |
| Benzo(g,h,i)perylene | 292180 | | < 0.05 | < 0.05 | NA | < 0.05 | 105% | 50% | 140% | 88% | 50% | 140% | 71% | 50% | 140% |

O. Reg. 153(511) - VOCs (Soil)

| | | | | | | | | | | | | | | | |
|-------------------------|--------|--|--------|--------|----|--------|------|-----|------|------|-----|------|------|-----|------|
| Dichlorodifluoromethane | 291666 | | < 0.05 | < 0.05 | NA | < 0.05 | 85% | 50% | 140% | 88% | 50% | 140% | 88% | 50% | 140% |
| Vinyl Chloride | 291666 | | < 0.02 | < 0.02 | NA | < 0.02 | 99% | 50% | 140% | 99% | 50% | 140% | 102% | 50% | 140% |
| Bromomethane | 291666 | | < 0.05 | < 0.05 | NA | < 0.05 | 103% | 50% | 140% | 117% | 50% | 140% | 111% | 50% | 140% |
| Trichlorofluoromethane | 291666 | | < 0.05 | < 0.05 | NA | < 0.05 | 96% | 50% | 140% | 95% | 50% | 140% | 102% | 50% | 140% |

Quality Assurance

CLIENT NAME: SNC LAVALIN INC

AGAT WORK ORDER: 19T483131

PROJECT: City Of Brampton Phase 2 ESA

ATTENTION TO: Robert Mitzakov

SAMPLING SITE:

SAMPLED BY:

Trace Organics Analysis (Continued)

| RPT Date: Jun 27, 2019 | | | DUPLICATE | | | Method Blank | REFERENCE MATERIAL | | | METHOD BLANK SPIKE | | | MATRIX SPIKE | | |
|--|--------|-----------|-----------|--------|-----|--------------|--------------------|-------------------|-------|--------------------|-------------------|-------|--------------|-------------------|-------|
| PARAMETER | Batch | Sample Id | Dup #1 | Dup #2 | RPD | | Measured Value | Acceptable Limits | | Recovery | Acceptable Limits | | Recovery | Acceptable Limits | |
| | | | | | | | | Lower | Upper | | Lower | Upper | | Lower | Upper |
| Acetone | 291666 | | < 0.50 | < 0.50 | NA | < 0.50 | 96% | 50% | 140% | 95% | 50% | 140% | 92% | 50% | 140% |
| 1,1-Dichloroethylene | 291666 | | < 0.05 | < 0.05 | NA | < 0.05 | 78% | 50% | 140% | 99% | 60% | 130% | 102% | 50% | 140% |
| Methylene Chloride | 291666 | | < 0.05 | < 0.05 | NA | < 0.05 | 106% | 50% | 140% | 83% | 60% | 130% | 105% | 50% | 140% |
| Trans- 1,2-Dichloroethylene | 291666 | | < 0.05 | < 0.05 | NA | < 0.05 | 91% | 50% | 140% | 115% | 60% | 130% | 105% | 50% | 140% |
| Methyl tert-butyl Ether | 291666 | | < 0.05 | < 0.05 | NA | < 0.05 | 118% | 50% | 140% | 96% | 60% | 130% | 80% | 50% | 140% |
| 1,1-Dichloroethane | 291666 | | < 0.02 | < 0.02 | NA | < 0.02 | 90% | 50% | 140% | 113% | 60% | 130% | 97% | 50% | 140% |
| Methyl Ethyl Ketone | 291666 | | < 0.50 | < 0.50 | NA | < 0.50 | 96% | 50% | 140% | 97% | 50% | 140% | 92% | 50% | 140% |
| Cis- 1,2-Dichloroethylene | 291666 | | < 0.02 | < 0.02 | NA | < 0.02 | 88% | 50% | 140% | 119% | 60% | 130% | 102% | 50% | 140% |
| Chloroform | 291666 | | < 0.04 | < 0.04 | NA | < 0.04 | 81% | 50% | 140% | 116% | 60% | 130% | 111% | 50% | 140% |
| 1,2-Dichloroethane | 291666 | | < 0.03 | < 0.03 | NA | < 0.03 | 95% | 50% | 140% | 87% | 60% | 130% | 81% | 50% | 140% |
| 1,1,1-Trichloroethane | 291666 | | < 0.05 | < 0.05 | NA | < 0.05 | 78% | 50% | 140% | 103% | 60% | 130% | 90% | 50% | 140% |
| Carbon Tetrachloride | 291666 | | < 0.05 | < 0.05 | NA | < 0.05 | 85% | 50% | 140% | 92% | 60% | 130% | 95% | 50% | 140% |
| Benzene | 291666 | | < 0.02 | < 0.02 | NA | < 0.02 | 88% | 50% | 140% | 109% | 60% | 130% | 115% | 50% | 140% |
| 1,2-Dichloropropane | 291666 | | < 0.03 | < 0.03 | NA | < 0.03 | 97% | 50% | 140% | 84% | 60% | 130% | 86% | 50% | 140% |
| Trichloroethylene | 291666 | | < 0.03 | < 0.03 | NA | < 0.03 | 86% | 50% | 140% | 108% | 60% | 130% | 115% | 50% | 140% |
| Bromodichloromethane | 291666 | | < 0.05 | < 0.05 | NA | < 0.05 | 90% | 50% | 140% | 80% | 60% | 130% | 83% | 50% | 140% |
| Methyl Isobutyl Ketone | 291666 | | < 0.50 | < 0.50 | NA | < 0.50 | 105% | 50% | 140% | 82% | 50% | 140% | 80% | 50% | 140% |
| 1,1,2-Trichloroethane | 291666 | | < 0.04 | < 0.04 | NA | < 0.04 | 78% | 50% | 140% | 98% | 60% | 130% | 105% | 50% | 140% |
| Toluene | 291666 | | < 0.05 | < 0.05 | NA | < 0.05 | 114% | 50% | 140% | 89% | 60% | 130% | 111% | 50% | 140% |
| Dibromochloromethane | 291666 | | < 0.05 | < 0.05 | NA | < 0.05 | 83% | 50% | 140% | 75% | 60% | 130% | 80% | 50% | 140% |
| Ethylene Dibromide | 291666 | | < 0.04 | < 0.04 | NA | < 0.04 | 94% | 50% | 140% | 98% | 60% | 130% | 86% | 50% | 140% |
| Tetrachloroethylene | 291666 | | < 0.05 | < 0.05 | NA | < 0.05 | 95% | 50% | 140% | 100% | 60% | 130% | 107% | 50% | 140% |
| 1,1,1,2-Tetrachloroethane | 291666 | | < 0.04 | < 0.04 | NA | < 0.04 | 83% | 50% | 140% | 97% | 60% | 130% | 86% | 50% | 140% |
| Chlorobenzene | 291666 | | < 0.05 | < 0.05 | NA | < 0.05 | 107% | 50% | 140% | 95% | 60% | 130% | 101% | 50% | 140% |
| Ethylbenzene | 291666 | | < 0.05 | < 0.05 | NA | < 0.05 | 104% | 50% | 140% | 109% | 60% | 130% | 86% | 50% | 140% |
| m & p-Xylene | 291666 | | < 0.05 | < 0.05 | NA | < 0.05 | 122% | 50% | 140% | 99% | 60% | 130% | 98% | 50% | 140% |
| Bromoform | 291666 | | < 0.05 | < 0.05 | NA | < 0.05 | 86% | 50% | 140% | 76% | 60% | 130% | 86% | 50% | 140% |
| Styrene | 291666 | | < 0.05 | < 0.05 | NA | < 0.05 | 80% | 50% | 140% | 81% | 60% | 130% | 114% | 50% | 140% |
| 1,1,2,2-Tetrachloroethane | 291666 | | < 0.05 | < 0.05 | NA | < 0.05 | 71% | 50% | 140% | 112% | 60% | 130% | 98% | 50% | 140% |
| o-Xylene | 291666 | | < 0.05 | < 0.05 | NA | < 0.05 | 111% | 50% | 140% | 114% | 60% | 130% | 100% | 50% | 140% |
| 1,3-Dichlorobenzene | 291666 | | < 0.05 | < 0.05 | NA | < 0.05 | 94% | 50% | 140% | 110% | 60% | 130% | 119% | 50% | 140% |
| 1,4-Dichlorobenzene | 291666 | | < 0.05 | < 0.05 | NA | < 0.05 | 95% | 50% | 140% | 80% | 60% | 130% | 115% | 50% | 140% |
| 1,2-Dichlorobenzene | 291666 | | < 0.05 | < 0.05 | NA | < 0.05 | 87% | 50% | 140% | 84% | 60% | 130% | 112% | 50% | 140% |
| 1,3-Dichloropropene | 291666 | | < 0.04 | < 0.04 | NA | < 0.04 | 86% | 50% | 140% | 81% | 60% | 130% | 84% | 50% | 140% |
| n-Hexane | 291666 | | < 0.05 | < 0.05 | NA | < 0.05 | 98% | 50% | 140% | 117% | 60% | 130% | 104% | 50% | 140% |
| O. Reg. 153(511) - PHCs F1 - F4 (-BTEX) (Soil) | | | | | | | | | | | | | | | |
| F1 (C6 to C10) | 300201 | | < 5 | < 5 | NA | < 5 | 113% | 60% | 130% | 104% | 85% | 115% | 95% | 70% | 130% |
| F2 (C10 to C16) | 247073 | | < 10 | < 10 | NA | < 10 | 102% | 60% | 130% | 107% | 80% | 120% | 86% | 70% | 130% |
| F3 (C16 to C34) | 247073 | | < 50 | < 50 | NA | < 50 | 103% | 60% | 130% | 117% | 80% | 120% | 91% | 70% | 130% |

Quality Assurance

 CLIENT NAME: SNC LAVALIN INC
 PROJECT: City Of Brampton Phase 2 ESA
 SAMPLING SITE:

 AGAT WORK ORDER: 19T483131
 ATTENTION TO: Robert Mitzakov
 SAMPLED BY:

Trace Organics Analysis (Continued)

| RPT Date: Jun 27, 2019 | | | DUPLICATE | | | | Method Blank | REFERENCE MATERIAL | | | METHOD BLANK SPIKE | | | MATRIX SPIKE | | |
|---|--------|-----------|-----------|---------|-----|----------------|--------------|--------------------|-------|----------|--------------------|-------|----------|-------------------|-------|--|
| PARAMETER | Batch | Sample Id | Dup #1 | Dup #2 | RPD | Measured Value | | Acceptable Limits | | Recovery | Acceptable Limits | | Recovery | Acceptable Limits | | |
| | | | | | | | | Lower | Upper | | Lower | Upper | | Lower | Upper | |
| F4 (C34 to C50) | 247073 | | < 50 | < 50 | NA | < 50 | 94% | 60% | 130% | 119% | 80% | 120% | 118% | 70% | 130% | |
| O. Reg. 153(511) - OC Pesticides (Soil) | | | | | | | | | | | | | | | | |
| Hexachloroethane | 294132 | | < 0.01 | < 0.01 | NA | < 0.01 | 85% | 50% | 140% | 84% | 50% | 140% | 94% | 50% | 140% | |
| Gamma-Hexachlorocyclohexane | 294132 | | < 0.005 | < 0.005 | NA | < 0.005 | 86% | 50% | 140% | 93% | 50% | 140% | 86% | 50% | 140% | |
| Heptachlor | 294132 | | < 0.005 | < 0.005 | NA | < 0.005 | 82% | 50% | 140% | 95% | 50% | 140% | 80% | 50% | 140% | |
| Aldrin | 294132 | | < 0.005 | < 0.005 | NA | < 0.005 | 87% | 50% | 140% | 94% | 50% | 140% | 87% | 50% | 140% | |
| Heptachlor Epoxide | 294132 | | < 0.005 | < 0.005 | NA | < 0.005 | 90% | 50% | 140% | 94% | 50% | 140% | 89% | 50% | 140% | |
| Endosulfan | 294132 | | < 0.005 | < 0.005 | NA | < 0.005 | 93% | 50% | 140% | 92% | 50% | 140% | 91% | 50% | 140% | |
| Chlordane | 294132 | | < 0.007 | < 0.007 | NA | < 0.007 | 92% | 50% | 140% | 89% | 50% | 140% | 90% | 50% | 140% | |
| DDE | 294132 | | < 0.007 | < 0.007 | NA | < 0.007 | 97% | 50% | 140% | 86% | 50% | 140% | 83% | 50% | 140% | |
| DDD | 294132 | | < 0.007 | < 0.007 | NA | < 0.007 | 97% | 50% | 140% | 84% | 50% | 140% | 83% | 50% | 140% | |
| DDT | 294132 | | < 0.007 | < 0.007 | NA | < 0.007 | 90% | 50% | 140% | 86% | 50% | 140% | 83% | 50% | 140% | |
| Dieldrin | 294132 | | < 0.005 | < 0.005 | NA | < 0.005 | 91% | 50% | 140% | 88% | 50% | 140% | 84% | 50% | 140% | |
| Endrin | 294132 | | < 0.005 | < 0.005 | NA | < 0.005 | 88% | 50% | 140% | 93% | 50% | 140% | 90% | 50% | 140% | |
| Methoxychlor | 294132 | | < 0.005 | < 0.005 | NA | < 0.005 | 93% | 50% | 140% | 103% | 50% | 140% | 91% | 50% | 140% | |
| Hexachlorobenzene | 294132 | | < 0.005 | < 0.005 | NA | < 0.005 | 90% | 50% | 140% | 98% | 50% | 140% | 92% | 50% | 140% | |
| Hexachlorobutadiene | 294132 | | < 0.01 | < 0.01 | NA | < 0.01 | 86% | 50% | 140% | 92% | 50% | 140% | 100% | 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).

Certified By: _____





Method Summary

CLIENT NAME: SNC LAVALIN INC

AGAT WORK ORDER: 19T483131

PROJECT: City Of Brampton Phase 2 ESA

ATTENTION TO: Robert Mitzakov

SAMPLING SITE:

SAMPLED BY:

| PARAMETER | AGAT S.O.P | LITERATURE REFERENCE | ANALYTICAL TECHNIQUE |
|---------------------------|--------------|---|-------------------------|
| Soil Analysis | | | |
| Antimony | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Arsenic | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Barium | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Beryllium | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Boron | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Boron (Hot Water Soluble) | MET-93-6104 | EPA SW 846 6010C; MSA, Part 3, Ch.21 | ICP/OES |
| Cadmium | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Chromium | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Cobalt | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Copper | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Lead | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Molybdenum | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Nickel | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Selenium | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Silver | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Thallium | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Uranium | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Vanadium | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Zinc | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Chromium VI | INOR-93-6029 | SM 3500 B; MSA Part 3, Ch. 25 | SPECTROPHOTOMETER |
| Cyanide | INOR-93-6052 | MOE CN-3015 & E 3009 A; SM 4500 CN | TECHNICON AUTO ANALYZER |
| Mercury | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Electrical Conductivity | INOR-93-6036 | McKeague 4.12, SM 2510 B | EC METER |
| Sodium Adsorption Ratio | INOR-93-6007 | McKeague 4.12 & 3.26 & EPA SW-846 6010C | ICP/OES |
| pH, 2:1 CaCl2 Extraction | INOR-93-6031 | MSA part 3 & SM 4500-H+ B | PH METER |

Method Summary

CLIENT NAME: SNC LAVALIN INC

AGAT WORK ORDER: 19T483131

PROJECT: City Of Brampton Phase 2 ESA

ATTENTION TO: Robert Mitzakov

SAMPLING SITE:

SAMPLED BY:

| PARAMETER | AGAT S.O.P | LITERATURE REFERENCE | ANALYTICAL TECHNIQUE |
|--------------------------------|-------------|--------------------------------|----------------------|
| Trace Organics Analysis | | | |
| Hexachloroethane | ORG-91-5113 | EPA SW-846 3541,3620 & 8081 | GC/ECD |
| Gamma-Hexachlorocyclohexane | ORG-91-5113 | EPA SW-846 3541,3620 & 8081 | GC/ECD |
| Heptachlor | ORG-91-5113 | EPA SW-846 3541,3620 & 8081 | GC/ECD |
| Aldrin | ORG-91-5113 | EPA SW-846 3541,3620 & 8081 | GC/ECD |
| Heptachlor Epoxide | ORG-91-5113 | EPA SW-846 3541,3620 & 8081 | GC/ECD |
| Endosulfan | ORG-91-5113 | EPA SW-846 3541,3620 & 8081 | GC/ECD |
| Chlordane | ORG-91-5113 | EPA SW-846 3541,3620 & 8081 | GC/ECD |
| DDE | ORG-91-5113 | EPA SW-846 3541,3620 & 8081 | GC/ECD |
| DDD | ORG-91-5113 | EPA SW-846 3541,3620 & 8081 | GC/ECD |
| DDT | ORG-91-5113 | EPA SW-846 3541,3620 & 8081 | GC/ECD |
| Dieldrin | ORG-91-5113 | EPA SW-846 3541,3620 & 8081 | GC/ECD |
| Endrin | ORG-91-5113 | EPA SW-846 3541,3620 & 8081 | GC/ECD |
| Methoxychlor | ORG-91-5113 | EPA SW-846 3541,3620 & 8081 | GC/ECD |
| Hexachlorobenzene | ORG-91-5113 | EPA SW-846 3541,3620 & 8081 | GC/ECD |
| Hexachlorobutadiene | ORG-91-5113 | EPA SW-846 3541,3620 & 8081 | GC/ECD |
| TCMX | ORG-91-5112 | EPA SW-846 3541,3620 & 8081 | GC/ECD |
| Decachlorobiphenyl | ORG-91-5113 | EPA SW-846 3541,3620 & 8081 | GC/ECD |
| Moisture Content | | MOE E3139 | BALANCE |
| Naphthalene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Acenaphthylene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Acenaphthene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Fluorene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Phenanthrene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Anthracene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Fluoranthene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Pyrene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Benz(a)anthracene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Chrysene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Benzo(b)fluoranthene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Benzo(k)fluoranthene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Benzo(a)pyrene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Indeno(1,2,3-cd)pyrene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Dibenz(a,h)anthracene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Benzo(g,h,i)perylene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| 2-and 1-methyl Naphthalene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Moisture Content | ORG-91-5106 | EPA SW-846 3541 & 8270D | BALANCE |
| Chrysene-d12 | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| F1 (C6 to C10) | VOL-91-5009 | CCME Tier 1 Method, SW846 5035 | P&T GC/FID |
| F1 (C6 to C10) minus BTEX | VOL-91-5009 | CCME Tier 1 Method, SW846 5035 | P&T GC/FID |
| F2 (C10 to C16) | VOL-91-5009 | CCME Tier 1 Method | GC/FID |
| F3 (C16 to C34) | VOL-91-5009 | CCME Tier 1 Method | GC/FID |
| F4 (C34 to C50) | VOL-91-5009 | CCME Tier 1 Method | GC/FID |
| Gravimetric Heavy Hydrocarbons | VOL-91-5009 | CCME Tier 1 Method | BALANCE |
| Moisture Content | VOL-91-5009 | CCME Tier 1 Method | BALANCE |
| Terphenyl | VOL-91-5009 | CCME Tier 1 Method | GC/FID |
| 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 |

Method Summary

CLIENT NAME: SNC LAVALIN INC

AGAT WORK ORDER: 19T483131

PROJECT: City Of Brampton Phase 2 ESA

ATTENTION TO: Robert Mitzakov

SAMPLING SITE:

SAMPLED BY:

| PARAMETER | AGAT S.O.P | LITERATURE REFERENCE | ANALYTICAL TECHNIQUE |
|-----------------------------|-------------|-------------------------|----------------------|
| 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 | EPA SW-846 5035 & 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 |
| Xylene Mixture | VOL-91-5002 | EPA SW-846 5035 & 8260D | (P&T)GC/MS |
| 1,3-Dichloropropene | 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 | EPA SW-846 5035 & 8260D | (P&T)GC/MS |
| 4-Bromofluorobenzene | VOL-91-5002 | EPA SW-846 5035 & 8260D | (P&T)GC/MS |
| 2,4-D | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| 2,4,5-T | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| 2,4,5-TP (Silvex) | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| Dicamba | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| Dichloroprop | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| Dinoseb | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| Picloram | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| Diclofop-methyl | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| 2,3,4,6-Tetrachlorophenol | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| 2,4-Dichlorophenol | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| 2,4,5-Trichlorophenol | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| 2,4,6-Trichlorophenol | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |



Method Summary

CLIENT NAME: SNC LAVALIN INC

AGAT WORK ORDER: 19T483131

PROJECT: City Of Brampton Phase 2 ESA

ATTENTION TO: Robert Mitzakov

SAMPLING SITE:

SAMPLED BY:

| PARAMETER | AGAT S.O.P | LITERATURE REFERENCE | ANALYTICAL TECHNIQUE |
|-------------------|-------------|----------------------|----------------------|
| Bromoxynil | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| MCPP (Mecoprop) | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| MCPA | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| Pentachlorophenol | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| DCAA | ORG-91-5110 | EPA SW-846 8151 | GC/ECD |
| Phenoxy Extr | | | N/A |



CLIENT NAME: SNC LAVALIN INC
235 LESMILL ROAD
TORONTO, ON M3B 2V1
(416) 679-6000

ATTENTION TO: Robert Mitzakov

PROJECT: 665125

AGAT WORK ORDER: 19H484181

SOIL ANALYSIS REVIEWED BY: Nivine Basily, Inorganics Report Writer

TRACE ORGANICS REVIEWED BY: Neli Popnikolova, Senior Chemist

DATE REPORTED: Jul 03, 2019

PAGES (INCLUDING COVER): 18

VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (905) 712-5100

*NOTES

All samples will be disposed of within 30 days following analysis. Please contact the lab if you require additional sample storage time.



Certificate of Analysis

AGAT WORK ORDER: 19H484181

PROJECT: 665125

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<http://www.agatlabs.com>

CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Robert Mitzakov

SAMPLING SITE: 10182 Highway 50, Brampton ON, 10182 Highway 50, Brampton ON

SAMPLED BY: Brial Poole, Brian Poole

O. Reg. 153(511) - Metals & Inorganics (Soil)

DATE RECEIVED: 2019-06-25

DATE REPORTED: 2019-07-03

| Parameter | Unit | SAMPLE DESCRIPTION: | | SS1 | SS2 | SS3 | SS4 | SS5 | SS6 |
|---------------------------|----------|---------------------|-------|------------|------------|------------|------------|------------|------------|
| | | SAMPLE TYPE: | | Soil | Soil | Soil | Soil | Soil | Soil |
| | | DATE SAMPLED: | | 2019-06-24 | 2019-06-24 | 2019-06-24 | 2019-06-24 | 2019-06-24 | 2019-06-24 |
| | | G / S | RDL | 302489 | 302513 | 302543 | 302549 | 302559 | 302561 |
| Antimony | µg/g | 1.3 | 0.8 | <0.8 | <0.8 | <0.8 | <0.8 | <0.8 | <0.8 |
| Arsenic | µg/g | 18 | 1 | 5 | 4 | 4 | 4 | 4 | 4 |
| Barium | µg/g | 220 | 2 | 116 | 111 | 119 | 104 | 107 | 116 |
| Beryllium | µg/g | 2.5 | 0.5 | 0.8 | 0.7 | 0.8 | 0.7 | 0.7 | 0.7 |
| Boron | µg/g | 36 | 5 | 5 | 5 | <5 | <5 | 5 | 6 |
| Boron (Hot Water Soluble) | µg/g | 1.5 | 0.10 | 0.37 | 0.42 | 0.27 | 0.23 | 0.20 | 0.23 |
| Cadmium | µg/g | 1.2 | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Chromium | µg/g | 70 | 2 | 28 | 27 | 28 | 27 | 27 | 28 |
| Cobalt | µg/g | 22 | 0.5 | 13.2 | 11.8 | 12.4 | 11.7 | 11.7 | 11.7 |
| Copper | µg/g | 92 | 1 | 19 | 18 | 18 | 18 | 17 | 17 |
| Lead | µg/g | 120 | 1 | 20 | 19 | 23 | 20 | 19 | 19 |
| Molybdenum | µg/g | 2 | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Nickel | µg/g | 82 | 1 | 22 | 21 | 22 | 20 | 20 | 21 |
| Selenium | µg/g | 1.5 | 0.4 | 0.6 | 0.5 | 0.6 | 0.5 | 0.4 | 0.4 |
| Silver | µg/g | 0.5 | 0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Thallium | µg/g | 1 | 0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 |
| Uranium | µg/g | 2.5 | 0.5 | 0.8 | 0.7 | 0.8 | 0.7 | 0.7 | 0.7 |
| Vanadium | µg/g | 86 | 1 | 45 | 43 | 45 | 42 | 43 | 45 |
| Zinc | µg/g | 290 | 5 | 78 | 74 | 74 | 72 | 70 | 73 |
| Chromium VI | µg/g | 0.66 | 0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Cyanide | 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 | mS/cm | 0.7 | 0.005 | 0.332 | 0.157 | 0.146 | 0.179 | 0.168 | 0.176 |
| Sodium Adsorption Ratio | NA | 5 | NA | 0.561 | 0.355 | 0.180 | 0.369 | 0.275 | 0.440 |
| pH, 2:1 CaCl2 Extraction | pH Units | | NA | 6.86 | 7.07 | 7.11 | 7.07 | 7.09 | 7.16 |

Certified By:

Divine Basily



AGAT Laboratories

Certificate of Analysis

AGAT WORK ORDER: 19H484181

PROJECT: 665125

5835 COOPERS AVENUE
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<http://www.agatlabs.com>

CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Robert Mitzakov

SAMPLING SITE: 10182 Highway 50, Brampton ON, 10182 Highway 50, Brampton ON

SAMPLED BY: Brial Poole, Brian Poole

O. Reg. 153(511) - Metals & Inorganics (Soil)

DATE RECEIVED: 2019-06-25

DATE REPORTED: 2019-07-03

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 9: Generic Site Condition Standards for Use within 30 m of a Water Body in a Non-Potable Ground Water Condition - 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.
302489-302561 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:

Divine Basily



Certificate of Analysis

AGAT WORK ORDER: 19H484181
PROJECT: 665125

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CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Robert Mitzakov

SAMPLING SITE: 10182 Highway 50, Brampton ON, 10182 Highway 50, Brampton ON

SAMPLED BY: Brial Poole, Brian Poole

O. Reg. 153(511) - OC Pesticides (Soil)

DATE RECEIVED: 2019-06-25

DATE REPORTED: 2019-07-03

| Parameter | Unit | SAMPLE DESCRIPTION: | | SS2 | SS6 |
|-----------------------------|------|---------------------|-------|--------|--------|
| | | G / S | RDL | 302513 | 302561 |
| Hexachloroethane | µg/g | 0.01 | 0.01 | <0.01 | <0.01 |
| Gamma-Hexachlorocyclohexane | µg/g | 0.01 | 0.005 | <0.005 | <0.005 |
| Heptachlor | µg/g | 0.05 | 0.005 | <0.005 | <0.005 |
| Aldrin | µg/g | 0.05 | 0.005 | <0.005 | <0.005 |
| Heptachlor Epoxide | µg/g | 0.05 | 0.005 | <0.005 | <0.005 |
| Endosulfan | µg/g | 0.04 | 0.005 | <0.005 | <0.005 |
| Chlordane | µg/g | 0.05 | 0.007 | <0.007 | <0.007 |
| DDE | µg/g | 0.05 | 0.007 | <0.007 | <0.007 |
| DDD | µg/g | 0.05 | 0.007 | <0.007 | <0.007 |
| DDT | µg/g | 1.4 | 0.007 | <0.007 | <0.007 |
| Dieldrin | µg/g | 0.05 | 0.005 | <0.005 | <0.005 |
| Endrin | µg/g | 0.04 | 0.005 | <0.005 | <0.005 |
| Methoxychlor | µg/g | 0.05 | 0.005 | <0.005 | <0.005 |
| Hexachlorobenzene | µg/g | 0.02 | 0.005 | <0.005 | <0.005 |
| Hexachlorobutadiene | µg/g | 0.01 | 0.01 | <0.01 | <0.01 |
| Moisture Content | % | | 0.1 | 9.5 | 10.5 |
| Surrogate | Unit | Acceptable Limits | | | |
| TCMX | % | 50-140 | | 74 | 62 |
| Decachlorobiphenyl | % | 60-130 | | 88 | 74 |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 9: Generic Site Condition Standards for Use within 30 m of a Water Body in a Non-Potable Ground Water Condition - 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.

302513-302561 Results are based on the dry weight of the soil.
DDT total is a calculated parameter. The calculated value is the sum of op/DDT and pp/DDT.
DDD total is a calculated parameter. The calculated value is the sum of op/DDD and pp/DDD.
DDE total is a calculated parameter. The calculated value is the sum of op/DDE and pp/DDE.
Endosulfan total is a calculated parameter. The calculated value is the sum of Endosulfan I and Endosulfan II.
Chlordane total is a calculated parameter. The calculated value is the sum of Alpha-Chlordane and Gamma-Chlordane.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 19H484181
PROJECT: 665125

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CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Robert Mitzakov

SAMPLING SITE: 10182 Highway 50, Brampton ON, 10182 Highway 50, Brampton ON

SAMPLED BY: Brial Poole, Brian Poole

O. Reg. 153(511) - PAHs (Soil)

DATE RECEIVED: 2019-06-25

DATE REPORTED: 2019-07-03

| Parameter | Unit | SAMPLE DESCRIPTION: | | SS2 | SS6 |
|----------------------------|------|---------------------|------|--------|--------|
| | | G / S | RDL | 302513 | 302561 |
| Naphthalene | µg/g | 0.09 | 0.05 | <0.05 | <0.05 |
| Acenaphthylene | µg/g | 0.093 | 0.05 | <0.05 | <0.05 |
| Acenaphthene | µg/g | 0.072 | 0.05 | <0.05 | <0.05 |
| Fluorene | µg/g | 0.19 | 0.05 | <0.05 | <0.05 |
| Phenanthrene | µg/g | 0.69 | 0.05 | <0.05 | <0.05 |
| Anthracene | µg/g | 0.22 | 0.05 | <0.05 | <0.05 |
| Fluoranthene | µg/g | 0.69 | 0.05 | <0.05 | <0.05 |
| Pyrene | µg/g | 1 | 0.05 | <0.05 | <0.05 |
| Benz(a)anthracene | µg/g | 0.36 | 0.05 | <0.05 | <0.05 |
| Chrysene | µg/g | 2.8 | 0.05 | <0.05 | <0.05 |
| Benzo(b)fluoranthene | µg/g | 0.47 | 0.05 | <0.05 | <0.05 |
| Benzo(k)fluoranthene | µg/g | 0.48 | 0.05 | <0.05 | <0.05 |
| Benzo(a)pyrene | µg/g | 0.3 | 0.05 | <0.05 | <0.05 |
| Indeno(1,2,3-cd)pyrene | µg/g | 0.23 | 0.05 | <0.05 | <0.05 |
| Dibenz(a,h)anthracene | µg/g | 0.1 | 0.05 | <0.05 | <0.05 |
| Benzo(g,h,i)perylene | µg/g | 0.68 | 0.05 | <0.05 | <0.05 |
| 2-and 1-methyl Naphthalene | µg/g | 0.59 | 0.05 | <0.05 | <0.05 |
| Moisture Content | % | | 0.1 | 9.5 | 10.5 |
| Surrogate | Unit | Acceptable Limits | | | |
| Chrysene-d12 | % | 50-140 | | 74 | 95 |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 9: Generic Site Condition Standards for Use within 30 m of a Water Body in a Non-Potable Ground Water Condition - 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.

302513-302561 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:



Certificate of Analysis

AGAT WORK ORDER: 19H484181

PROJECT: 665125

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CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Robert Mitzakov

SAMPLING SITE: 10182 Highway 50, Brampton ON, 10182 Highway 50, Brampton ON

SAMPLED BY: Brial Poole, Brian Poole

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

DATE RECEIVED: 2019-06-25

DATE REPORTED: 2019-07-03

| Parameter | Unit | SAMPLE DESCRIPTION: | | SS1 | SS3 | SS5 |
|--------------------------------|------|---------------------|-----|--------|--------|--------|
| | | G / S | RDL | 302489 | 302543 | 302559 |
| F1 (C6 to C10) | µg/g | | 5 | <5 | <5 | <5 |
| F1 (C6 to C10) minus BTEX | µg/g | 25 | 5 | <5 | <5 | <5 |
| F2 (C10 to C16) | µg/g | 10 | 10 | <10 | <10 | <10 |
| F3 (C16 to C34) | µg/g | 240 | 50 | <50 | <50 | <50 |
| F4 (C34 to C50) | µg/g | 120 | 50 | <50 | <50 | <50 |
| Gravimetric Heavy Hydrocarbons | µg/g | 120 | 50 | NA | NA | NA |
| Moisture Content | % | | 0.1 | 16.9 | 17.0 | 12.7 |
| Surrogate | Unit | Acceptable Limits | | | | |
| Terphenyl | % | 60-140 | | 101 | 95 | 94 |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 9: Generic Site Condition Standards for Use within 30 m of a Water Body in a Non-Potable Ground Water Condition - 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.

302489-302559

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 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 contribution.
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC6 and nC10 response factors are within 30% of Toluene response factor.
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.
Fractions 1-4 are quantified without the contribution of PAHs. Under Ontario Regulation 153, results are considered valid without determining the PAH contribution if not requested by the client.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 19H484181

PROJECT: 665125

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CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Robert Mitzakov

SAMPLING SITE: 10182 Highway 50, Brampton ON, 10182 Highway 50, Brampton ON

SAMPLED BY: Brial Poole, Brian Poole

O. Reg. 153(511) - VOCs (Soil)

DATE RECEIVED: 2019-06-25

DATE REPORTED: 2019-07-03

| Parameter | Unit | SAMPLE DESCRIPTION: | | | | |
|-----------------------------|------|---------------------|------|--------|--------|--------|
| | | SS1 | | SS3 | | SS5 |
| | | G / S | RDL | G / S | RDL | G / S |
| | | | | 302489 | 302543 | 302559 |
| Dichlorodifluoromethane | µg/g | 0.05 | 0.05 | <0.05 | <0.05 | <0.05 |
| Vinyl Chloride | ug/g | 0.02 | 0.02 | <0.02 | <0.02 | <0.02 |
| Bromomethane | ug/g | 0.05 | 0.05 | <0.05 | <0.05 | <0.05 |
| Trichlorofluoromethane | ug/g | 0.25 | 0.05 | <0.05 | <0.05 | <0.05 |
| Acetone | ug/g | 0.5 | 0.50 | <0.50 | <0.50 | <0.50 |
| 1,1-Dichloroethylene | ug/g | 0.05 | 0.05 | <0.05 | <0.05 | <0.05 |
| Methylene Chloride | ug/g | 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 |
| Methyl tert-butyl Ether | ug/g | 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 |
| Methyl Ethyl Ketone | ug/g | 0.5 | 0.50 | <0.50 | <0.50 | <0.50 |
| Cis- 1,2-Dichloroethylene | ug/g | 0.05 | 0.02 | <0.02 | <0.02 | <0.02 |
| Chloroform | ug/g | 0.05 | 0.04 | <0.04 | <0.04 | <0.04 |
| 1,2-Dichloroethane | ug/g | 0.05 | 0.03 | <0.03 | <0.03 | <0.03 |
| 1,1,1-Trichloroethane | ug/g | 0.05 | 0.05 | <0.05 | <0.05 | <0.05 |
| Carbon Tetrachloride | ug/g | 0.05 | 0.05 | <0.05 | <0.05 | <0.05 |
| Benzene | ug/g | 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 |
| Trichloroethylene | ug/g | 0.05 | 0.03 | <0.03 | <0.03 | <0.03 |
| Bromodichloromethane | ug/g | 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 |
| 1,1,2-Trichloroethane | ug/g | 0.05 | 0.04 | <0.04 | <0.04 | <0.04 |
| Toluene | ug/g | 0.2 | 0.05 | <0.05 | <0.05 | <0.05 |
| Dibromochloromethane | ug/g | 0.05 | 0.05 | <0.05 | <0.05 | <0.05 |
| Ethylene Dibromide | ug/g | 0.05 | 0.04 | <0.04 | <0.04 | <0.04 |
| Tetrachloroethylene | ug/g | 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 |
| Chlorobenzene | ug/g | 0.05 | 0.05 | <0.05 | <0.05 | <0.05 |
| Ethylbenzene | ug/g | 0.05 | 0.05 | <0.05 | <0.05 | <0.05 |
| m & p-Xylene | ug/g | | 0.05 | <0.05 | <0.05 | <0.05 |

Certified By:





Certificate of Analysis

AGAT WORK ORDER: 19H484181

PROJECT: 665125

5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
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CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Robert Mitzakov

SAMPLING SITE: 10182 Highway 50, Brampton ON, 10182 Highway 50, Brampton ON

SAMPLED BY: Brial Poole, Brian Poole

O. Reg. 153(511) - VOCs (Soil)

DATE RECEIVED: 2019-06-25

DATE REPORTED: 2019-07-03

| Parameter | Unit | SAMPLE DESCRIPTION: | | | | |
|---------------------------|------------|---------------------|------|------------|------------|------------|
| | | G / S | RDL | SS1 | SS3 | SS5 |
| | | | | 2019-06-24 | 2019-06-24 | 2019-06-24 |
| | | | | 302489 | 302543 | 302559 |
| Bromoform | ug/g | 0.05 | 0.05 | <0.05 | <0.05 | <0.05 |
| Styrene | ug/g | 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 |
| o-Xylene | ug/g | | 0.05 | <0.05 | <0.05 | <0.05 |
| 1,3-Dichlorobenzene | ug/g | 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 |
| 1,2-Dichlorobenzene | ug/g | 0.05 | 0.05 | <0.05 | <0.05 | <0.05 |
| Xylene Mixture | ug/g | 0.05 | 0.05 | <0.05 | <0.05 | <0.05 |
| 1,3-Dichloropropene | µg/g | 0.05 | 0.04 | <0.04 | <0.04 | <0.04 |
| n-Hexane | µg/g | 0.05 | 0.05 | <0.05 | <0.05 | <0.05 |
| Surrogate | Unit | Acceptable Limits | | | | |
| Toluene-d8 | % Recovery | 50-140 | | 106 | 105 | 103 |
| 4-Bromofluorobenzene | % Recovery | 50-140 | | 102 | 96 | 96 |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 9: Generic Site Condition Standards for Use within 30 m of a Water Body in a Non-Potable Ground Water Condition - 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.

302489-302559 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:



Certificate of Analysis

AGAT WORK ORDER: 19H484181

PROJECT: 665125

5835 COOPERS AVENUE
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TEL (905)712-5100
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CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Robert Mitzakov

SAMPLING SITE: 10182 Highway 50, Brampton ON, 10182 Highway 50, Brampton ON

SAMPLED BY: Brial Poole, Brian Poole

Phenoxy Acid Herbicides (Soil)

DATE RECEIVED: 2019-06-25

DATE REPORTED: 2019-07-03

| Parameter | Unit | SAMPLE DESCRIPTION: | | SS2 | SS6 |
|---------------------------|------|---------------------|------|--------|--------|
| | | G / S | RDL | 302513 | 302561 |
| 2,4-D | ug/g | | 0.10 | <0.10 | <0.10 |
| 2,4,5-T | ug/g | | 0.10 | <0.10 | <0.10 |
| 2,4,5-TP (Silvex) | ug/g | | 0.10 | <0.10 | <0.10 |
| Dicamba | ug/g | | 0.10 | <0.10 | <0.10 |
| Dichlorprop | ug/g | | 0.10 | <0.10 | <0.10 |
| Dinoseb | ug/g | | 0.10 | <0.10 | <0.10 |
| Picloram | ug/g | | 0.10 | <0.10 | <0.10 |
| Diclofop-methyl | ug/g | | 0.10 | <0.10 | <0.10 |
| 2,3,4,6-Tetrachlorophenol | ug/g | | 0.05 | <0.05 | <0.05 |
| 2,4-Dichlorophenol | ug/g | | 0.05 | <0.05 | <0.05 |
| 2,4,5-Trichlorophenol | ug/g | | 0.05 | <0.05 | <0.05 |
| 2,4,6-Trichlorophenol | ug/g | | 0.05 | <0.05 | <0.05 |
| Bromoxynil | ug/g | | 0.5 | <0.5 | <0.5 |
| MCPA | ug/g | | 1.0 | <1.0 | <1.0 |
| MCPA | ug/g | | 1.0 | <1.0 | <1.0 |
| MCPA (Mecoprop) | ug/g | | 1.0 | <1.0 | <1.0 |
| Pentachlorophenol | ug/g | | 0.05 | <0.05 | <0.05 |
| Phenoxy Extr | NA | | | Y | Y |
| Surrogate | Unit | Acceptable Limits | | | |
| DCAA | % | 50-130 | | 72 | 75 |

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

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:

Quality Assurance

CLIENT NAME: SNC LAVALIN INC

AGAT WORK ORDER: 19H484181

PROJECT: 665125

ATTENTION TO: Robert Mitzakov

SAMPLING SITE: 10182 Highway 50, Brampton ON, 10182 Highway 50, Brampton ON

SAMPLED BY: Brial Poole, Brian Poole

| Soil Analysis | | | | | | | | | | | | | | |
|------------------------|-------|-----------|-----------|--------|-----|----------------|--------------|--------------------|-------|----------|--------------------|-------|--------------|-------------------|
| RPT Date: Jul 03, 2019 | | | DUPLICATE | | | | Method Blank | REFERENCE MATERIAL | | | METHOD BLANK SPIKE | | MATRIX SPIKE | |
| PARAMETER | Batch | Sample Id | Dup #1 | Dup #2 | RPD | Measured Value | | Acceptable Limits | | Recovery | Acceptable Limits | | Recovery | Acceptable Limits |
| | | | | | | | Lower | Upper | Lower | | Upper | Lower | | Upper |

O. Reg. 153(511) - Metals & Inorganics (Soil)

| | | | | | | | | | | | | | | | |
|---------------------------|--------|--------|--------|--------|------|---------|------|-----|------|------|-----|------|------|-----|------|
| Antimony | 302489 | 302489 | <0.8 | <0.8 | NA | < 0.8 | 122% | 70% | 130% | 98% | 80% | 120% | 93% | 70% | 130% |
| Arsenic | 302489 | 302489 | 5 | 5 | 0.0% | < 1 | 106% | 70% | 130% | 102% | 80% | 120% | 102% | 70% | 130% |
| Barium | 302489 | 302489 | 116 | 112 | 3.5% | < 2 | 99% | 70% | 130% | 98% | 80% | 120% | 95% | 70% | 130% |
| Beryllium | 302489 | 302489 | 0.8 | 0.7 | NA | < 0.5 | 82% | 70% | 130% | 110% | 80% | 120% | 88% | 70% | 130% |
| Boron | 302489 | 302489 | 5 | 5 | NA | < 5 | 79% | 70% | 130% | 101% | 80% | 120% | 98% | 70% | 130% |
| Boron (Hot Water Soluble) | 302489 | 302489 | 0.37 | 0.36 | NA | < 0.10 | 109% | 60% | 140% | 105% | 70% | 130% | 107% | 60% | 140% |
| Cadmium | 302489 | 302489 | <0.5 | <0.5 | NA | < 0.5 | 104% | 70% | 130% | 102% | 80% | 120% | 103% | 70% | 130% |
| Chromium | 302489 | 302489 | 28 | 28 | 0.0% | < 2 | 89% | 70% | 130% | 104% | 80% | 120% | 101% | 70% | 130% |
| Cobalt | 302489 | 302489 | 13.2 | 12.6 | 4.7% | < 0.5 | 107% | 70% | 130% | 105% | 80% | 120% | 116% | 70% | 130% |
| Copper | 302489 | 302489 | 19 | 18 | 5.4% | < 1 | 86% | 70% | 130% | 105% | 80% | 120% | 94% | 70% | 130% |
| Lead | 302489 | 302489 | 20 | 20 | 0.0% | < 1 | 100% | 70% | 130% | 117% | 80% | 120% | 114% | 70% | 130% |
| Molybdenum | 302489 | 302489 | <0.5 | <0.5 | NA | < 0.5 | 104% | 70% | 130% | 108% | 80% | 120% | 105% | 70% | 130% |
| Nickel | 302489 | 302489 | 22 | 21 | 4.7% | < 1 | 93% | 70% | 130% | 103% | 80% | 120% | 98% | 70% | 130% |
| Selenium | 302489 | 302489 | 0.6 | 0.4 | NA | < 0.4 | 112% | 70% | 130% | 107% | 80% | 120% | 103% | 70% | 130% |
| Silver | 302489 | 302489 | <0.2 | <0.2 | NA | < 0.2 | 95% | 70% | 130% | 104% | 80% | 120% | 101% | 70% | 130% |
| Thallium | 302489 | 302489 | <0.4 | <0.4 | NA | < 0.4 | 113% | 70% | 130% | 97% | 80% | 120% | 97% | 70% | 130% |
| Uranium | 302489 | 302489 | 0.8 | 0.7 | NA | < 0.5 | 117% | 70% | 130% | 100% | 80% | 120% | 102% | 70% | 130% |
| Vanadium | 302489 | 302489 | 45 | 44 | 2.2% | < 1 | 106% | 70% | 130% | 114% | 80% | 120% | 111% | 70% | 130% |
| Zinc | 302489 | 302489 | 78 | 74 | 5.3% | < 5 | 82% | 70% | 130% | 106% | 80% | 120% | 108% | 70% | 130% |
| Chromium VI | 311451 | | <0.2 | <0.2 | NA | < 0.2 | 110% | 70% | 130% | 104% | 80% | 120% | 106% | 70% | 130% |
| Cyanide | 303077 | | <0.040 | <0.040 | NA | < 0.040 | 94% | 70% | 130% | 102% | 80% | 120% | 94% | 70% | 130% |
| Mercury | 302489 | 302489 | <0.10 | <0.10 | NA | < 0.10 | 97% | 70% | 130% | 96% | 80% | 120% | 107% | 70% | 130% |
| Electrical Conductivity | 302489 | 302489 | 0.332 | 0.327 | 1.5% | < 0.005 | 101% | 90% | 110% | | | | | | |
| Sodium Adsorption Ratio | 302489 | 302489 | 0.561 | 0.605 | 7.5% | NA | | | | | | | | | |
| pH, 2:1 CaCl2 Extraction | 311451 | | 7.17 | 7.15 | 0.3% | NA | 101% | 80% | 120% | | | | | | |

Comments: NA signifies Not Applicable.

Duplicate Qualifier: As the measured result approaches the RL, the uncertainty associated with the value increases dramatically, thus duplicate acceptance limits apply only where the average of the two duplicates is greater than five times the RL

pH duplicates QA acceptance criteria was met relative as stated in Table 5-15 of Analytical Protocol document.

Certified By: _____

Divine Basily

Quality Assurance

CLIENT NAME: SNC LAVALIN INC

AGAT WORK ORDER: 19H484181

PROJECT: 665125

ATTENTION TO: Robert Mitzakov

SAMPLING SITE: 10182 Highway 50, Brampton ON, 10182 Highway 50, Brampton ON

SAMPLED BY: Brial Poole, Brian Poole

Trace Organics Analysis

| RPT Date: Jul 03, 2019 | | | DUPLICATE | | | Method Blank | REFERENCE MATERIAL | | | METHOD BLANK SPIKE | | | MATRIX SPIKE | | |
|--------------------------------|--------|-----------|-----------|--------|-----|--------------|--------------------|-------------------|-------|--------------------|-------------------|-------|--------------|-------------------|-------|
| PARAMETER | Batch | Sample Id | Dup #1 | Dup #2 | RPD | | Measured Value | Acceptable Limits | | Recovery | Acceptable Limits | | Recovery | Acceptable Limits | |
| | | | | | | | | Lower | Upper | | Lower | Upper | | Lower | Upper |
| O. Reg. 153(511) - VOCs (Soil) | | | | | | | | | | | | | | | |
| Dichlorodifluoromethane | 309697 | | < 0.05 | < 0.05 | NA | < 0.05 | 84% | 50% | 140% | 75% | 50% | 140% | 85% | 50% | 140% |
| Vinyl Chloride | 309697 | | < 0.02 | < 0.02 | NA | < 0.02 | 87% | 50% | 140% | 88% | 50% | 140% | 78% | 50% | 140% |
| Bromomethane | 309697 | | < 0.05 | < 0.05 | NA | < 0.05 | 91% | 50% | 140% | 86% | 50% | 140% | 77% | 50% | 140% |
| Trichlorofluoromethane | 309697 | | < 0.05 | < 0.05 | NA | < 0.05 | 84% | 50% | 140% | 80% | 50% | 140% | 82% | 50% | 140% |
| Acetone | 309697 | | < 0.50 | < 0.50 | NA | < 0.50 | 76% | 50% | 140% | 77% | 50% | 140% | 104% | 50% | 140% |
| 1,1-Dichloroethylene | 309697 | | < 0.05 | < 0.05 | NA | < 0.05 | 89% | 50% | 140% | 84% | 60% | 130% | 80% | 50% | 140% |
| Methylene Chloride | 309697 | | < 0.05 | < 0.05 | NA | < 0.05 | 110% | 50% | 140% | 110% | 60% | 130% | 88% | 50% | 140% |
| Trans- 1,2-Dichloroethylene | 309697 | | < 0.05 | < 0.05 | NA | < 0.05 | 73% | 50% | 140% | 72% | 60% | 130% | 78% | 50% | 140% |
| Methyl tert-butyl Ether | 309697 | | < 0.05 | < 0.05 | NA | < 0.05 | 82% | 50% | 140% | 76% | 60% | 130% | 80% | 50% | 140% |
| 1,1-Dichloroethane | 309697 | | < 0.02 | < 0.02 | NA | < 0.02 | 78% | 50% | 140% | 88% | 60% | 130% | 75% | 50% | 140% |
| Methyl Ethyl Ketone | 309697 | | < 0.50 | < 0.50 | NA | < 0.50 | 87% | 50% | 140% | 70% | 50% | 140% | 90% | 50% | 140% |
| Cis- 1,2-Dichloroethylene | 309697 | | < 0.02 | < 0.02 | NA | < 0.02 | 87% | 50% | 140% | 83% | 60% | 130% | 84% | 50% | 140% |
| Chloroform | 309697 | | < 0.04 | < 0.04 | NA | < 0.04 | 73% | 50% | 140% | 73% | 60% | 130% | 75% | 50% | 140% |
| 1,2-Dichloroethane | 309697 | | < 0.03 | < 0.03 | NA | < 0.03 | 71% | 50% | 140% | 76% | 60% | 130% | 82% | 50% | 140% |
| 1,1,1-Trichloroethane | 309697 | | < 0.05 | < 0.05 | NA | < 0.05 | 84% | 50% | 140% | 72% | 60% | 130% | 82% | 50% | 140% |
| Carbon Tetrachloride | 309697 | | < 0.05 | < 0.05 | NA | < 0.05 | 104% | 50% | 140% | 88% | 60% | 130% | 85% | 50% | 140% |
| Benzene | 309697 | | < 0.02 | < 0.02 | NA | < 0.02 | 81% | 50% | 140% | 79% | 60% | 130% | 81% | 50% | 140% |
| 1,2-Dichloropropane | 309697 | | < 0.03 | < 0.03 | NA | < 0.03 | 80% | 50% | 140% | 78% | 60% | 130% | 71% | 50% | 140% |
| Trichloroethylene | 309697 | | < 0.03 | < 0.03 | NA | < 0.03 | 74% | 50% | 140% | 74% | 60% | 130% | 78% | 50% | 140% |
| Bromodichloromethane | 309697 | | < 0.05 | < 0.05 | NA | < 0.05 | 79% | 50% | 140% | 70% | 60% | 130% | 78% | 50% | 140% |
| Methyl Isobutyl Ketone | 309697 | | < 0.50 | < 0.50 | NA | < 0.50 | 88% | 50% | 140% | 76% | 50% | 140% | 103% | 50% | 140% |
| 1,1,2-Trichloroethane | 309697 | | < 0.04 | < 0.04 | NA | < 0.04 | 100% | 50% | 140% | 105% | 60% | 130% | 120% | 50% | 140% |
| Toluene | 309697 | | < 0.05 | < 0.05 | NA | < 0.05 | 104% | 50% | 140% | 101% | 60% | 130% | 99% | 50% | 140% |
| Dibromochloromethane | 309697 | | < 0.05 | < 0.05 | NA | < 0.05 | 75% | 50% | 140% | 110% | 60% | 130% | 77% | 50% | 140% |
| Ethylene Dibromide | 309697 | | < 0.04 | < 0.04 | NA | < 0.04 | 75% | 50% | 140% | 72% | 60% | 130% | 91% | 50% | 140% |
| Tetrachloroethylene | 309697 | | < 0.05 | < 0.05 | NA | < 0.05 | 75% | 50% | 140% | 76% | 60% | 130% | 81% | 50% | 140% |
| 1,1,1,2-Tetrachloroethane | 309697 | | < 0.04 | < 0.04 | NA | < 0.04 | 80% | 50% | 140% | 109% | 60% | 130% | 75% | 50% | 140% |
| Chlorobenzene | 309697 | | < 0.05 | < 0.05 | NA | < 0.05 | 106% | 50% | 140% | 104% | 60% | 130% | 107% | 50% | 140% |
| Ethylbenzene | 309697 | | < 0.05 | < 0.05 | NA | < 0.05 | 93% | 50% | 140% | 90% | 60% | 130% | 92% | 50% | 140% |
| m & p-Xylene | 309697 | | < 0.05 | < 0.05 | NA | < 0.05 | 103% | 50% | 140% | 99% | 60% | 130% | 99% | 50% | 140% |
| Bromoform | 309697 | | < 0.05 | < 0.05 | NA | < 0.05 | 110% | 50% | 140% | 78% | 60% | 130% | 76% | 50% | 140% |
| Styrene | 309697 | | < 0.05 | < 0.05 | NA | < 0.05 | 70% | 50% | 140% | 98% | 60% | 130% | 107% | 50% | 140% |
| 1,1,2,2-Tetrachloroethane | 309697 | | < 0.05 | < 0.05 | NA | < 0.05 | 105% | 50% | 140% | 105% | 60% | 130% | 128% | 50% | 140% |
| o-Xylene | 309697 | | < 0.05 | < 0.05 | NA | < 0.05 | 106% | 50% | 140% | 103% | 60% | 130% | 105% | 50% | 140% |
| 1,3-Dichlorobenzene | 309697 | | < 0.05 | < 0.05 | NA | < 0.05 | 109% | 50% | 140% | 120% | 60% | 130% | 121% | 50% | 140% |
| 1,4-Dichlorobenzene | 309697 | | < 0.05 | < 0.05 | NA | < 0.05 | 105% | 50% | 140% | 107% | 60% | 130% | 107% | 50% | 140% |
| 1,2-Dichlorobenzene | 309697 | | < 0.05 | < 0.05 | NA | < 0.05 | 108% | 50% | 140% | 112% | 60% | 130% | 117% | 50% | 140% |
| 1,3-Dichloropropene | 309697 | | < 0.04 | < 0.04 | NA | < 0.04 | 95% | 50% | 140% | 84% | 60% | 130% | 81% | 50% | 140% |
| n-Hexane | 309697 | | < 0.05 | < 0.05 | NA | < 0.05 | 84% | 50% | 140% | 76% | 60% | 130% | 83% | 50% | 140% |

Quality Assurance

CLIENT NAME: SNC LAVALIN INC

AGAT WORK ORDER: 19H484181

PROJECT: 665125

ATTENTION TO: Robert Mitzakov

SAMPLING SITE: 10182 Highway 50, Brampton ON, 10182 Highway 50, Brampton ON

SAMPLED BY: Brial Poole, Brian Poole

Trace Organics Analysis (Continued)

| RPT Date: Jul 03, 2019 | | | DUPLICATE | | | Method Blank | REFERENCE MATERIAL | | | METHOD BLANK SPIKE | | | MATRIX SPIKE | | |
|------------------------|-------|-----------|-----------|--------|-----|--------------|--------------------|-------------------|-------|--------------------|-------------------|-------|--------------|-------------------|-------|
| PARAMETER | Batch | Sample Id | Dup #1 | Dup #2 | RPD | | Measured Value | Acceptable Limits | | Recovery | Acceptable Limits | | Recovery | Acceptable Limits | |
| | | | | | | | | Lower | Upper | | Lower | Upper | | Lower | Upper |

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

| | | | | | | | | | | | | | | | |
|-----------------|--------|--|------|------|----|------|-----|-----|------|-----|-----|------|-----|-----|------|
| F1 (C6 to C10) | 303509 | | < 5 | < 5 | NA | < 5 | 97% | 60% | 130% | 97% | 85% | 115% | 85% | 70% | 130% |
| F2 (C10 to C16) | 301086 | | < 10 | < 10 | NA | < 10 | 91% | 60% | 130% | 89% | 80% | 120% | 77% | 70% | 130% |
| F3 (C16 to C34) | 301086 | | < 50 | < 50 | NA | < 50 | 92% | 60% | 130% | 97% | 80% | 120% | 94% | 70% | 130% |
| F4 (C34 to C50) | 301086 | | < 50 | < 50 | NA | < 50 | 76% | 60% | 130% | 86% | 80% | 120% | 94% | 70% | 130% |

O. Reg. 153(511) - PAHs (Soil)

| | | | | | | | | | | | | | | | |
|------------------------|--------|--|--------|--------|----|--------|------|-----|------|------|-----|------|-----|-----|------|
| Naphthalene | 305507 | | < 0.05 | < 0.05 | NA | < 0.05 | 112% | 50% | 140% | 88% | 50% | 140% | 72% | 50% | 140% |
| Acenaphthylene | 305507 | | < 0.05 | < 0.05 | NA | < 0.05 | 113% | 50% | 140% | 92% | 50% | 140% | 73% | 50% | 140% |
| Acenaphthene | 305507 | | < 0.05 | < 0.05 | NA | < 0.05 | 108% | 50% | 140% | 92% | 50% | 140% | 74% | 50% | 140% |
| Fluorene | 305507 | | < 0.05 | < 0.05 | NA | < 0.05 | 112% | 50% | 140% | 89% | 50% | 140% | 75% | 50% | 140% |
| Phenanthrene | 305507 | | < 0.05 | < 0.05 | NA | < 0.05 | 107% | 50% | 140% | 80% | 50% | 140% | 67% | 50% | 140% |
| Anthracene | 305507 | | < 0.05 | < 0.05 | NA | < 0.05 | 94% | 50% | 140% | 81% | 50% | 140% | 67% | 50% | 140% |
| Fluoranthene | 305507 | | < 0.05 | < 0.05 | NA | < 0.05 | 119% | 50% | 140% | 98% | 50% | 140% | 79% | 50% | 140% |
| Pyrene | 305507 | | < 0.05 | < 0.05 | NA | < 0.05 | 116% | 50% | 140% | 99% | 50% | 140% | 77% | 50% | 140% |
| Benz(a)anthracene | 305507 | | < 0.05 | < 0.05 | NA | < 0.05 | 62% | 50% | 140% | 101% | 50% | 140% | 68% | 50% | 140% |
| Chrysene | 305507 | | < 0.05 | < 0.05 | NA | < 0.05 | 112% | 50% | 140% | 101% | 50% | 140% | 73% | 50% | 140% |
| Benzo(b)fluoranthene | 305507 | | < 0.05 | < 0.05 | NA | < 0.05 | 111% | 50% | 140% | 70% | 50% | 140% | 72% | 50% | 140% |
| Benzo(k)fluoranthene | 305507 | | < 0.05 | < 0.05 | NA | < 0.05 | 116% | 50% | 140% | 70% | 50% | 140% | 65% | 50% | 140% |
| Benzo(a)pyrene | 305507 | | < 0.05 | < 0.05 | NA | < 0.05 | 108% | 50% | 140% | 78% | 50% | 140% | 61% | 50% | 140% |
| Indeno(1,2,3-cd)pyrene | 305507 | | < 0.05 | < 0.05 | NA | < 0.05 | 74% | 50% | 140% | 86% | 50% | 140% | 69% | 50% | 140% |
| Dibenz(a,h)anthracene | 305507 | | < 0.05 | < 0.05 | NA | < 0.05 | 66% | 50% | 140% | 85% | 50% | 140% | 66% | 50% | 140% |
| Benzo(g,h,i)perylene | 305507 | | < 0.05 | < 0.05 | NA | < 0.05 | 105% | 50% | 140% | 88% | 50% | 140% | 71% | 50% | 140% |

Phenoxy Acid Herbicides (Soil)

| | | | | | | | | | | | | | | | |
|---------------------------|--------|--|--------|--------|----|--------|------|-----|------|------|-----|------|------|-----|------|
| 2,4-D | 268398 | | < 0.10 | < 0.10 | NA | < 0.10 | 100% | 50% | 130% | 98% | 50% | 130% | 100% | 50% | 130% |
| 2,4,5-T | 268398 | | < 0.10 | < 0.10 | NA | < 0.10 | 90% | 50% | 130% | 90% | 50% | 130% | 92% | 50% | 130% |
| 2,4,5-TP (Silvex) | 268398 | | < 0.10 | < 0.10 | NA | < 0.10 | 92% | 50% | 130% | 85% | 50% | 130% | 70% | 50% | 130% |
| Dicamba | 268398 | | < 0.10 | < 0.10 | NA | < 0.10 | 97% | 50% | 130% | 86% | 50% | 130% | 76% | 50% | 130% |
| Dichlorprop | 268398 | | < 0.10 | < 0.10 | NA | < 0.10 | 102% | 50% | 130% | 90% | 50% | 130% | 80% | 50% | 130% |
| Dinoseb | 268398 | | < 0.10 | < 0.10 | NA | < 0.10 | 75% | 50% | 130% | 65% | 50% | 130% | 63% | 50% | 130% |
| Picloram | 268398 | | < 0.10 | < 0.10 | NA | < 0.10 | 103% | 50% | 130% | 80% | 50% | 130% | 64% | 50% | 130% |
| Diclofop-methyl | 268398 | | < 0.10 | < 0.10 | NA | < 0.10 | 105% | 50% | 130% | 101% | 50% | 130% | 95% | 50% | 130% |
| 2,3,4,6-Tetrachlorophenol | 268398 | | < 0.05 | < 0.05 | NA | < 0.05 | 117% | 50% | 130% | 101% | 50% | 130% | 97% | 50% | 130% |
| 2,4-Dichlorophenol | 268398 | | < 0.05 | < 0.05 | NA | < 0.05 | 99% | 50% | 130% | 90% | 50% | 130% | 74% | 50% | 130% |
| 2,4,5-Trichlorophenol | 268398 | | < 0.05 | < 0.05 | NA | < 0.05 | 90% | 50% | 130% | 85% | 50% | 130% | 70% | 50% | 130% |
| 2,4,6-Trichlorophenol | 268398 | | < 0.05 | < 0.05 | NA | < 0.05 | 111% | 50% | 130% | 101% | 50% | 130% | 97% | 50% | 130% |
| Bromoxynil | 268398 | | < 0.5 | < 0.5 | NA | < 0.5 | 98% | 60% | 130% | 95% | 60% | 130% | 94% | 60% | 130% |
| MCPP (Mecoprop) | 268398 | | < 1.0 | < 1.0 | NA | < 1.0 | NA | 50% | 130% | 100% | 50% | 130% | 80% | 50% | 130% |
| MCPA | 268398 | | < 1.0 | < 1.0 | NA | < 1.0 | NA | 50% | 130% | 98% | 50% | 130% | 90% | 50% | 130% |

Quality Assurance

CLIENT NAME: SNC LAVALIN INC

AGAT WORK ORDER: 19H484181

PROJECT: 665125

ATTENTION TO: Robert Mitzakov

SAMPLING SITE: 10182 Highway 50, Brampton ON, 10182 Highway 50, Brampton ON

SAMPLED BY: Brial Poole, Brian Poole

Trace Organics Analysis (Continued)

| RPT Date: Jul 03, 2019 | | | DUPLICATE | | | | Method Blank | REFERENCE MATERIAL | | | METHOD BLANK SPIKE | | | MATRIX SPIKE | | |
|---|--------|-----------|-----------|---------|-----|----------------|--------------|--------------------|-------|----------|--------------------|-------|----------|-------------------|-------|--|
| PARAMETER | Batch | Sample Id | Dup #1 | Dup #2 | RPD | Measured Value | | Acceptable Limits | | Recovery | Acceptable Limits | | Recovery | Acceptable Limits | | |
| | | | | | | | | Lower | Upper | | Lower | Upper | | Lower | Upper | |
| Pentachlorophenol | 268398 | | < 0.05 | < 0.05 | NA | < 0.05 | 94% | 50% | 130% | 90% | 50% | 130% | 80% | 50% | 130% | |
| O. Reg. 153(511) - OC Pesticides (Soil) | | | | | | | | | | | | | | | | |
| Hexachloroethane | 294132 | | < 0.01 | < 0.01 | NA | < 0.01 | 103% | 50% | 140% | 89% | 50% | 140% | 98% | 50% | 140% | |
| Gamma-Hexachlorocyclohexane | 294132 | | < 0.005 | < 0.005 | NA | < 0.005 | 105% | 50% | 140% | 107% | 50% | 140% | 90% | 50% | 140% | |
| Heptachlor | 294132 | | < 0.005 | < 0.005 | NA | < 0.005 | 95% | 50% | 140% | 105% | 50% | 140% | 98% | 50% | 140% | |
| Aldrin | 294132 | | < 0.005 | < 0.005 | NA | < 0.005 | 107% | 50% | 140% | 107% | 50% | 140% | 108% | 50% | 140% | |
| Heptachlor Epoxide | 294132 | | < 0.005 | < 0.005 | NA | < 0.005 | 109% | 50% | 140% | 105% | 50% | 140% | 102% | 50% | 140% | |
| Endosulfan | 294132 | | < 0.005 | < 0.005 | NA | < 0.005 | 107% | 50% | 140% | 101% | 50% | 140% | 95% | 50% | 140% | |
| Chlordane | 294132 | | < 0.007 | < 0.007 | NA | < 0.007 | 106% | 50% | 140% | 109% | 50% | 140% | 98% | 50% | 140% | |
| DDE | 294132 | | < 0.007 | < 0.007 | NA | < 0.007 | 104% | 50% | 140% | 106% | 50% | 140% | 109% | 50% | 140% | |
| DDD | 294132 | | < 0.007 | < 0.007 | NA | < 0.007 | 99% | 50% | 140% | 106% | 50% | 140% | 102% | 50% | 140% | |
| DDT | 294132 | | < 0.007 | < 0.007 | NA | < 0.007 | 101% | 50% | 140% | 94% | 50% | 140% | 102% | 50% | 140% | |
| Dieldrin | 294132 | | < 0.005 | < 0.005 | NA | < 0.005 | 103% | 50% | 140% | 102% | 50% | 140% | 100% | 50% | 140% | |
| Endrin | 294132 | | < 0.005 | < 0.005 | NA | < 0.005 | 103% | 50% | 140% | 101% | 50% | 140% | 104% | 50% | 140% | |
| Methoxychlor | 294132 | | < 0.005 | < 0.005 | NA | < 0.005 | 85% | 50% | 140% | 104% | 50% | 140% | 108% | 50% | 140% | |
| Hexachlorobenzene | 294132 | | < 0.005 | < 0.005 | NA | < 0.005 | 106% | 50% | 140% | 100% | 50% | 140% | 106% | 50% | 140% | |
| Hexachlorobutadiene | 294132 | | < 0.01 | < 0.01 | NA | < 0.01 | 105% | 50% | 140% | 101% | 50% | 140% | 102% | 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).

Certified By:





Method Summary

CLIENT NAME: SNC LAVALIN INC

AGAT WORK ORDER: 19H484181

PROJECT: 665125

ATTENTION TO: Robert Mitzakov

SAMPLING SITE: 10182 Highway 50, Brampton ON, 10182 Highway 50, Brampton ON SAMPLED BY: Brial Poole, Brian Poole

| PARAMETER | AGAT S.O.P | LITERATURE REFERENCE | ANALYTICAL TECHNIQUE |
|--------------------------------------|--------------|---|-------------------------|
| Soil Analysis | | | |
| Antimony | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Arsenic | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Barium | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Beryllium | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Boron | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Boron (Hot Water Soluble) | MET-93-6104 | EPA SW 846 6010C; MSA, Part 3, Ch.21 | ICP/OES |
| Cadmium | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Chromium | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Cobalt | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Copper | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Lead | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Molybdenum | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Nickel | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Selenium | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Silver | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Thallium | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Uranium | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Vanadium | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Zinc | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Chromium VI | INOR-93-6029 | SM 3500 B; MSA Part 3, Ch. 25 | SPECTROPHOTOMETER |
| Cyanide | INOR-93-6052 | MOE CN-3015 & E 3009 A; SM 4500 CN | TECHNICON AUTO ANALYZER |
| Mercury | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Electrical Conductivity | INOR-93-6036 | McKeague 4.12, SM 2510 B | EC METER |
| Sodium Adsorption Ratio | INOR-93-6007 | McKeague 4.12 & 3.26 & EPA SW-846 6010C | ICP/OES |
| pH, 2:1 CaCl ₂ Extraction | INOR-93-6031 | MSA part 3 & SM 4500-H+ B | PH METER |

Method Summary

CLIENT NAME: SNC LAVALIN INC

AGAT WORK ORDER: 19H484181

PROJECT: 665125

ATTENTION TO: Robert Mitzakov

SAMPLING SITE: 10182 Highway 50, Brampton ON, 10182 Highway 50, Brampton ON

SAMPLED BY: Brial Poole, Brian Poole

| PARAMETER | AGAT S.O.P | LITERATURE REFERENCE | ANALYTICAL TECHNIQUE |
|--------------------------------|-------------|--------------------------------|----------------------|
| Trace Organics Analysis | | | |
| Hexachloroethane | ORG-91-5113 | EPA SW-846 3541,3620 & 8081 | GC/ECD |
| Gamma-Hexachlorocyclohexane | ORG-91-5113 | EPA SW-846 3541,3620 & 8081 | GC/ECD |
| Heptachlor | ORG-91-5113 | EPA SW-846 3541,3620 & 8081 | GC/ECD |
| Aldrin | ORG-91-5113 | EPA SW-846 3541,3620 & 8081 | GC/ECD |
| Heptachlor Epoxide | ORG-91-5113 | EPA SW-846 3541,3620 & 8081 | GC/ECD |
| Endosulfan | ORG-91-5113 | EPA SW-846 3541,3620 & 8081 | GC/ECD |
| Chlordane | ORG-91-5113 | EPA SW-846 3541,3620 & 8081 | GC/ECD |
| DDE | ORG-91-5113 | EPA SW-846 3541,3620 & 8081 | GC/ECD |
| DDD | ORG-91-5113 | EPA SW-846 3541,3620 & 8081 | GC/ECD |
| DDT | ORG-91-5113 | EPA SW-846 3541,3620 & 8081 | GC/ECD |
| Dieldrin | ORG-91-5113 | EPA SW-846 3541,3620 & 8081 | GC/ECD |
| Endrin | ORG-91-5113 | EPA SW-846 3541,3620 & 8081 | GC/ECD |
| Methoxychlor | ORG-91-5113 | EPA SW-846 3541,3620 & 8081 | GC/ECD |
| Hexachlorobenzene | ORG-91-5113 | EPA SW-846 3541,3620 & 8081 | GC/ECD |
| Hexachlorobutadiene | ORG-91-5113 | EPA SW-846 3541,3620 & 8081 | GC/ECD |
| TCMX | ORG-91-5112 | EPA SW-846 3541,3620 & 8081 | GC/ECD |
| Decachlorobiphenyl | ORG-91-5113 | EPA SW-846 3541,3620 & 8081 | GC/ECD |
| Moisture Content | | MOE E3139 | BALANCE |
| Naphthalene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Acenaphthylene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Acenaphthene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Fluorene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Phenanthrene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Anthracene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Fluoranthene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Pyrene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Benz(a)anthracene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Chrysene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Benzo(b)fluoranthene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Benzo(k)fluoranthene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Benzo(a)pyrene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Indeno(1,2,3-cd)pyrene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Dibenz(a,h)anthracene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Benzo(g,h,i)perylene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| 2-and 1-methyl Naphthalene | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| Moisture Content | ORG-91-5106 | EPA SW-846 3541 & 8270D | BALANCE |
| Chrysene-d12 | ORG-91-5106 | EPA SW846 3541 & 8270D | GC/MS |
| F1 (C6 to C10) | VOL-91-5009 | CCME Tier 1 Method, SW846 5035 | P&T GC/FID |
| F1 (C6 to C10) minus BTEX | VOL-91-5009 | CCME Tier 1 Method, SW846 5035 | P&T GC/FID |
| F2 (C10 to C16) | VOL-91-5009 | CCME Tier 1 Method | GC/FID |
| F3 (C16 to C34) | VOL-91-5009 | CCME Tier 1 Method | GC/FID |
| F4 (C34 to C50) | VOL-91-5009 | CCME Tier 1 Method | GC/FID |
| Gravimetric Heavy Hydrocarbons | VOL-91-5009 | CCME Tier 1 Method | BALANCE |
| Moisture Content | VOL-91-5009 | CCME Tier 1 Method | BALANCE |
| Terphenyl | VOL-91-5009 | CCME Tier 1 Method | GC/FID |
| 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 |



Method Summary

CLIENT NAME: SNC LAVALIN INC

AGAT WORK ORDER: 19H484181

PROJECT: 665125

ATTENTION TO: Robert Mitzakov

SAMPLING SITE: 10182 Highway 50, Brampton ON, 10182 Highway 50, Brampton ON SAMPLED BY: Brial Poole, Brian Poole

| PARAMETER | AGAT S.O.P | LITERATURE REFERENCE | ANALYTICAL TECHNIQUE |
|-----------------------------|-------------|-------------------------|----------------------|
| 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 | EPA SW-846 5035 & 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 |
| Xylene Mixture | VOL-91-5002 | EPA SW-846 5035 & 8260D | (P&T)GC/MS |
| 1,3-Dichloropropene | 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 | EPA SW-846 5035 & 8260D | (P&T)GC/MS |
| 4-Bromofluorobenzene | VOL-91-5002 | EPA SW-846 5035 & 8260D | (P&T)GC/MS |
| 2,4-D | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| 2,4,5-T | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| 2,4,5-TP (Silvex) | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| Dicamba | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| Dichloroprop | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| Dinoseb | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| Picloram | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| Diclofop-methyl | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| 2,3,4,6-Tetrachlorophenol | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| 2,4-Dichlorophenol | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| 2,4,5-Trichlorophenol | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| 2,4,6-Trichlorophenol | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |



Method Summary

CLIENT NAME: SNC LAVALIN INC

AGAT WORK ORDER: 19H484181

PROJECT: 665125

ATTENTION TO: Robert Mitzakov

SAMPLING SITE: 10182 Highway 50, Brampton ON, 10182 Highway 50, Brampton ON SAMPLED BY: Brial Poole, Brian Poole

| PARAMETER | AGAT S.O.P | LITERATURE REFERENCE | ANALYTICAL TECHNIQUE |
|-------------------|-------------|----------------------|----------------------|
| Bromoxynil | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| MCPP (Mecoprop) | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| MCPA | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| Pentachlorophenol | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| DCAA | ORG-91-5110 | EPA SW-846 8151 | GC/ECD |
| Phenoxy Extr | | | N/A |



CLIENT NAME: SNC LAVALIN INC
235 LESMILL ROAD
TORONTO, ON M3B 2V1
(416) 679-6000

ATTENTION TO: Robert Mitzakov

PROJECT: City Of Brampton Drilling & Soil Sampling

AGAT WORK ORDER: 19T531714

SOIL ANALYSIS REVIEWED BY: Amanjot Bhela, Inorganic Supervisor

TRACE ORGANICS REVIEWED BY: Oksana Gushyla, Trace Organics Lab Supervisor

DATE REPORTED: Oct 25, 2019

PAGES (INCLUDING COVER): 20

VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (905) 712-5100

*NOTES

All samples will be disposed of within 30 days following analysis. Please contact the lab if you require additional sample storage time.



Certificate of Analysis

AGAT WORK ORDER: 19T531714

PROJECT: City Of Brampton Drilling & Soil Sampling

5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
TEL (905)712-5100
FAX (905)712-5122
<http://www.agatlabs.com>

CLIENT NAME: SNC LAVALIN INC

SAMPLING SITE: 10192 Hwy 50, Brampton, ON

ATTENTION TO: Robert Mitzakov

SAMPLED BY: Joey Preston

Metals - Full Metal Scan in Soil

DATE RECEIVED: 2019-10-17

DATE REPORTED: 2019-10-25

| Parameter | Unit | SAMPLE DESCRIPTION: | | | | |
|------------|-------|---------------------|--------|------------|------------|------------|
| | | SAMPLE TYPE: | | BH-74-01 | BH-75-02 | BH-75-22 |
| | | DATE SAMPLED: | | 2019-10-16 | 2019-10-16 | 2019-10-16 |
| | G / S | RDL | 624922 | 624941 | 624953 | |
| Aluminum | µg/g | | 50 | 24600 | 27400 | 17900 |
| Antimony | µg/g | 1.3 | 0.8 | <0.8 | <0.8 | <0.8 |
| Arsenic | µg/g | 18 | 1 | 4 | 4 | 3 |
| Barium | µg/g | 220 | 2 | 157 | 175 | 113 |
| Beryllium | µg/g | 2.5 | 0.5 | 0.9 | 1.0 | 0.7 |
| Bismuth | µg/g | | 0.1 | 0.2 | 0.2 | 0.1 |
| Boron | µg/g | 36 | 5 | 7 | 6 | 7 |
| Cadmium | µg/g | 1.2 | 0.5 | <0.5 | <0.5 | <0.5 |
| Chromium | µg/g | 70 | 2 | 34 | 38 | 27 |
| Cobalt | µg/g | 22 | 0.5 | 13.8 | 15.2 | 11.4 |
| Copper | µg/g | 92 | 1 | 23 | 27 | 20 |
| Iron | µg/g | | 500 | 32200 | 36600 | 25500 |
| Lead | µg/g | 120 | 1 | 16 | 16 | 10 |
| Lithium | µg/g | | 0.5 | 22.6 | 24.2 | 18.0 |
| Manganese | µg/g | | 5 | 913 | 1070 | 670 |
| Molybdenum | µg/g | 2 | 0.5 | <0.5 | <0.5 | <0.5 |
| Nickel | µg/g | 82 | 1 | 30 | 33 | 25 |
| Phosphorus | µg/g | | 5 | 920 | 813 | 756 |
| Selenium | µg/g | 1.5 | 0.8 | <0.8 | <0.8 | <0.8 |
| Silicon | µg/g | | 5 | 990 | 881 | 920 |
| Silver | µg/g | 0.5 | 0.4 | <0.4 | <0.4 | <0.4 |
| Strontium | µg/g | | 5 | 49 | 31 | 117 |
| Thallium | µg/g | 1 | 0.4 | <0.4 | <0.4 | <0.4 |
| Tin | µg/g | | 1 | <1 | <1 | <1 |
| Titanium | µg/g | | 50 | 270 | 311 | 279 |
| Uranium | µg/g | 2.5 | 0.50 | 0.72 | 0.64 | 0.63 |
| Vanadium | µg/g | 86 | 1 | 44 | 47 | 36 |
| Zinc | µg/g | 290 | 5 | 84 | 93 | 61 |
| Zirconium | µg/g | | 0.5 | 3.8 | 5.7 | 5.6 |

Certified By:

Anamjit Bhela




AGAT Laboratories

Certificate of Analysis

AGAT WORK ORDER: 19T531714

PROJECT: City Of Brampton Drilling & Soil Sampling

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CLIENT NAME: SNC LAVALIN INC

SAMPLING SITE: 10192 Hwy 50, Brampton, ON

ATTENTION TO: Robert Mitzakov

SAMPLED BY: Joey Preston

Metals - Full Metal Scan in Soil

DATE RECEIVED: 2019-10-17

DATE REPORTED: 2019-10-25

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 9: Generic Site Condition Standards for Use within 30 m of a Water Body in a Non-Potable Ground Water Condition - 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.

624922-624953 Elevated RDL indicates the degree of sample dilution prior to the analysis in order to keep analytes within the calibration range of the instrument and to reduce matrix interference.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:

Anamjot Bhela




Certificate of Analysis

AGAT WORK ORDER: 19T531714

PROJECT: City Of Brampton Drilling & Soil Sampling

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CLIENT NAME: SNC LAVALIN INC
SAMPLING SITE: 10192 Hwy 50, Brampton, ON

ATTENTION TO: Robert Mitzakov
SAMPLED BY: Joey Preston

O. Reg. 153(511) - ORPs (Soil)

DATE RECEIVED: 2019-10-17

DATE REPORTED: 2019-10-25

| Parameter | Unit | SAMPLE DESCRIPTION: | | | | |
|-------------------------|-------|---------------------|-------|------------|------------|------------|
| | | G / S | RDL | BH-74-01 | BH-75-02 | BH-75-22 |
| | | | | Soil | Soil | Soil |
| | | | | 2019-10-16 | 2019-10-16 | 2019-10-16 |
| | | | | 624922 | 624941 | 624953 |
| Electrical Conductivity | mS/cm | 0.7 | 0.005 | 0.207 | 0.275 | 0.230 |
| Sodium Adsorption Ratio | NA | 5 | NA | 0.343 | 0.969 | 0.822 |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 9: Generic Site Condition Standards for Use within 30 m of a Water Body in a Non-Potable Ground Water Condition - 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.

624922-624953 EC was determined on the DI water extract obtained from the 2:1 leaching procedure (2 parts DI water:1 part soil). SAR is a calculated parameter.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:





Certificate of Analysis

AGAT WORK ORDER: 19T531714

PROJECT: City Of Brampton Drilling & Soil Sampling

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CLIENT NAME: SNC LAVALIN INC

SAMPLING SITE: 10192 Hwy 50, Brampton, ON

ATTENTION TO: Robert Mitzakov

SAMPLED BY: Joey Preston

O. Reg. 153(511) - OC Pesticides (Soil)

DATE RECEIVED: 2019-10-17

DATE REPORTED: 2019-10-25

| Parameter | Unit | SAMPLE DESCRIPTION: | | BH-74-02 | BH-75-01 |
|-----------------------------|------|---------------------|-------|----------|----------|
| | | G / S | RDL | 624924 | 624940 |
| Hexachloroethane | µg/g | 0.01 | 0.01 | <0.01 | <0.01 |
| Gamma-Hexachlorocyclohexane | µg/g | 0.01 | 0.005 | <0.005 | <0.005 |
| Heptachlor | µg/g | 0.05 | 0.005 | <0.005 | <0.005 |
| Aldrin | µg/g | 0.05 | 0.005 | <0.005 | <0.005 |
| Heptachlor Epoxide | µg/g | 0.05 | 0.005 | <0.005 | <0.005 |
| Endosulfan | µg/g | 0.04 | 0.005 | <0.005 | <0.005 |
| Chlordane | µg/g | 0.05 | 0.007 | <0.007 | <0.007 |
| DDE | µg/g | 0.05 | 0.007 | <0.007 | <0.007 |
| DDD | µg/g | 0.05 | 0.007 | <0.007 | <0.007 |
| DDT | µg/g | 1.4 | 0.007 | <0.007 | <0.007 |
| Dieldrin | µg/g | 0.05 | 0.005 | <0.005 | <0.005 |
| Endrin | µg/g | 0.04 | 0.005 | <0.005 | <0.005 |
| Methoxychlor | µg/g | 0.05 | 0.005 | <0.005 | <0.005 |
| Hexachlorobenzene | µg/g | 0.02 | 0.005 | <0.005 | <0.005 |
| Hexachlorobutadiene | µg/g | 0.01 | 0.01 | <0.01 | <0.01 |
| Moisture Content | % | | 0.1 | 11.0 | 18.9 |
| Surrogate | Unit | Acceptable Limits | | | |
| TCMX | % | 50-140 | | 65 | 69 |
| Decachlorobiphenyl | % | 60-130 | | 70 | 73 |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 9: Generic Site Condition Standards for Use within 30 m of a Water Body in a Non-Potable Ground Water Condition - 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.

624924-624940 Results are based on the dry weight of the soil.
DDT total is a calculated parameter. The calculated value is the sum of op'DDT and pp'DDT.
DDD total is a calculated parameter. The calculated value is the sum of op'DDD and pp'DDD.
DDE total is a calculated parameter. The calculated value is the sum of op'DDE and pp'DDE.
Endosulfan total is a calculated parameter. The calculated value is the sum of Endosulfan I and Endosulfan II.
Chlordane total is a calculated parameter. The calculated value is the sum of Alpha-Chlordane and Gamma-Chlordane.

Analysis performed at AGAT Toronto (unless marked by *)

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Certificate of Analysis

AGAT WORK ORDER: 19T531714

PROJECT: City Of Brampton Drilling & Soil Sampling

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CLIENT NAME: SNC LAVALIN INC

SAMPLING SITE: 10192 Hwy 50, Brampton, ON

ATTENTION TO: Robert Mitzakov

SAMPLED BY: Joey Preston

O. Reg. 153(511) - PAHs (Soil)

DATE RECEIVED: 2019-10-17

DATE REPORTED: 2019-10-25

| Parameter | Unit | SAMPLE DESCRIPTION: | | BH-74-01 | BH-75-02 |
|----------------------------|------|---------------------|------|------------|------------|
| | | G / S | RDL | 2019-10-16 | 2019-10-16 |
| Naphthalene | µg/g | 0.09 | 0.05 | <0.05 | <0.05 |
| Acenaphthylene | µg/g | 0.093 | 0.05 | <0.05 | <0.05 |
| Acenaphthene | µg/g | 0.072 | 0.05 | <0.05 | <0.05 |
| Fluorene | µg/g | 0.19 | 0.05 | <0.05 | <0.05 |
| Phenanthrene | µg/g | 0.69 | 0.05 | <0.05 | <0.05 |
| Anthracene | µg/g | 0.22 | 0.05 | <0.05 | <0.05 |
| Fluoranthene | µg/g | 0.69 | 0.05 | <0.05 | <0.05 |
| Pyrene | µg/g | 1 | 0.05 | <0.05 | <0.05 |
| Benz(a)anthracene | µg/g | 0.36 | 0.05 | <0.05 | <0.05 |
| Chrysene | µg/g | 2.8 | 0.05 | <0.05 | <0.05 |
| Benzo(b)fluoranthene | µg/g | 0.47 | 0.05 | <0.05 | <0.05 |
| Benzo(k)fluoranthene | µg/g | 0.48 | 0.05 | <0.05 | <0.05 |
| Benzo(a)pyrene | µg/g | 0.3 | 0.05 | <0.05 | <0.05 |
| Indeno(1,2,3-cd)pyrene | µg/g | 0.23 | 0.05 | <0.05 | <0.05 |
| Dibenz(a,h)anthracene | µg/g | 0.1 | 0.05 | <0.05 | <0.05 |
| Benzo(g,h,i)perylene | µg/g | 0.68 | 0.05 | <0.05 | <0.05 |
| 2-and 1-methyl Naphthalene | µg/g | 0.59 | 0.05 | <0.05 | <0.05 |
| Moisture Content | % | | 0.1 | 18.3 | 17.6 |
| Surrogate | Unit | Acceptable Limits | | | |
| Chrysene-d12 | % | 50-140 | | 92 | 89 |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 9: Generic Site Condition Standards for Use within 30 m of a Water Body in a Non-Potable Ground Water Condition - 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.

624922-624941 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 *)

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PROJECT: City Of Brampton Drilling & Soil Sampling

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CLIENT NAME: SNC LAVALIN INC

SAMPLING SITE: 10192 Hwy 50, Brampton, ON

ATTENTION TO: Robert Mitzakov

SAMPLED BY: Joey Preston

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

DATE RECEIVED: 2019-10-17

DATE REPORTED: 2019-10-25

| Parameter | Unit | SAMPLE DESCRIPTION: | | | | |
|--------------------------------|------|---------------------|-----|------------|------------|------------|
| | | G / S | RDL | BH-74-06 | BH-75-06 | BH-75-66 |
| | | | | Soil | Soil | Soil |
| | | | | 2019-10-16 | 2019-10-16 | 2019-10-16 |
| | | | | 624926 | 624954 | 624968 |
| F1 (C6 to C10) | µg/g | | 5 | <5 | <5 | <5 |
| F1 (C6 to C10) minus BTEX | µg/g | 25 | 5 | <5 | <5 | <5 |
| F2 (C10 to C16) | µg/g | 10 | 10 | <10 | <10 | <10 |
| F3 (C16 to C34) | µg/g | 240 | 50 | <50 | <50 | <50 |
| F4 (C34 to C50) | µg/g | 120 | 50 | <50 | <50 | <50 |
| Gravimetric Heavy Hydrocarbons | µg/g | 120 | 50 | NA | NA | NA |
| Moisture Content | % | | 0.1 | 10.9 | 11.4 | 11.3 |
| Surrogate | Unit | Acceptable Limits | | | | |
| Terphenyl | % | 60-140 | 114 | 77 | 66 | |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 9: Generic Site Condition Standards for Use within 30 m of a Water Body in a Non-Potable Ground Water Condition - 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.

624926-624968

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 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 contribution.
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC6 and nC10 response factors are within 30% of Toluene response factor.
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.
Fractions 1-4 are quantified without the contribution of PAHs. Under Ontario Regulation 153, results are considered valid without determining the PAH contribution if not requested by the client.

Analysis performed at AGAT Toronto (unless marked by *)

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AGAT WORK ORDER: 19T531714

PROJECT: City Of Brampton Drilling & Soil Sampling

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CLIENT NAME: SNC LAVALIN INC

SAMPLING SITE: 10192 Hwy 50, Brampton, ON

ATTENTION TO: Robert Mitzakov

SAMPLED BY: Joey Preston

O. Reg. 153(511) - VOCs (Soil)

DATE RECEIVED: 2019-10-17

DATE REPORTED: 2019-10-25

| Parameter | Unit | SAMPLE DESCRIPTION: | | BH-74-06 | BH-75-06 | BH-75-66 |
|-----------------------------|------|---------------------|------|------------|------------|------------|
| | | SAMPLE TYPE: | | Soil | Soil | Soil |
| | | DATE SAMPLED: | | 2019-10-16 | 2019-10-16 | 2019-10-16 |
| | | G / S | RDL | 624926 | 624954 | 624968 |
| Dichlorodifluoromethane | µg/g | 0.05 | 0.05 | <0.05 | <0.05 | <0.05 |
| Vinyl Chloride | ug/g | 0.02 | 0.02 | <0.02 | <0.02 | <0.02 |
| Bromomethane | ug/g | 0.05 | 0.05 | <0.05 | <0.05 | <0.05 |
| Trichlorofluoromethane | ug/g | 0.25 | 0.05 | <0.05 | <0.05 | <0.05 |
| Acetone | ug/g | 0.5 | 0.50 | <0.50 | <0.50 | <0.50 |
| 1,1-Dichloroethylene | ug/g | 0.05 | 0.05 | <0.05 | <0.05 | <0.05 |
| Methylene Chloride | ug/g | 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 |
| Methyl tert-butyl Ether | ug/g | 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 |
| Methyl Ethyl Ketone | ug/g | 0.5 | 0.50 | <0.50 | <0.50 | <0.50 |
| Cis- 1,2-Dichloroethylene | ug/g | 0.05 | 0.02 | <0.02 | <0.02 | <0.02 |
| Chloroform | ug/g | 0.05 | 0.04 | <0.04 | <0.04 | <0.04 |
| 1,2-Dichloroethane | ug/g | 0.05 | 0.03 | <0.03 | <0.03 | <0.03 |
| 1,1,1-Trichloroethane | ug/g | 0.05 | 0.05 | <0.05 | <0.05 | <0.05 |
| Carbon Tetrachloride | ug/g | 0.05 | 0.05 | <0.05 | <0.05 | <0.05 |
| Benzene | ug/g | 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 |
| Trichloroethylene | ug/g | 0.05 | 0.03 | <0.03 | <0.03 | <0.03 |
| Bromodichloromethane | ug/g | 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 |
| 1,1,2-Trichloroethane | ug/g | 0.05 | 0.04 | <0.04 | <0.04 | <0.04 |
| Toluene | ug/g | 0.2 | 0.05 | <0.05 | <0.05 | <0.05 |
| Dibromochloromethane | ug/g | 0.05 | 0.05 | <0.05 | <0.05 | <0.05 |
| Ethylene Dibromide | ug/g | 0.05 | 0.04 | <0.04 | <0.04 | <0.04 |
| Tetrachloroethylene | ug/g | 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 |
| Chlorobenzene | ug/g | 0.05 | 0.05 | <0.05 | <0.05 | <0.05 |
| Ethylbenzene | ug/g | 0.05 | 0.05 | <0.05 | <0.05 | <0.05 |
| m & p-Xylene | ug/g | | 0.05 | <0.05 | <0.05 | <0.05 |

Certified By:



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AGAT WORK ORDER: 19T531714

PROJECT: City Of Brampton Drilling & Soil Sampling

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CLIENT NAME: SNC LAVALIN INC

SAMPLING SITE: 10192 Hwy 50, Brampton, ON

ATTENTION TO: Robert Mitzakov

SAMPLED BY: Joey Preston

O. Reg. 153(511) - VOCs (Soil)

DATE RECEIVED: 2019-10-17

DATE REPORTED: 2019-10-25

| Parameter | Unit | SAMPLE DESCRIPTION: | | | | |
|---------------------------|------------|---------------------|------|------------|------------|------------|
| | | G / S | RDL | BH-74-06 | BH-75-06 | BH-75-66 |
| | | | | Soil | Soil | Soil |
| | | | | 2019-10-16 | 2019-10-16 | 2019-10-16 |
| | | | | 624926 | 624954 | 624968 |
| Bromoform | ug/g | 0.05 | 0.05 | <0.05 | <0.05 | <0.05 |
| Styrene | ug/g | 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 |
| o-Xylene | ug/g | | 0.05 | <0.05 | <0.05 | <0.05 |
| 1,3-Dichlorobenzene | ug/g | 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 |
| 1,2-Dichlorobenzene | ug/g | 0.05 | 0.05 | <0.05 | <0.05 | <0.05 |
| Xylene Mixture | ug/g | 0.05 | 0.05 | <0.05 | <0.05 | <0.05 |
| 1,3-Dichloropropene | µg/g | 0.05 | 0.04 | <0.04 | <0.04 | <0.04 |
| n-Hexane | µg/g | 0.05 | 0.05 | <0.05 | <0.05 | <0.05 |
| Surrogate | Unit | Acceptable Limits | | | | |
| Toluene-d8 | % Recovery | 50-140 | 99 | 101 | 100 | |
| 4-Bromofluorobenzene | % Recovery | 50-140 | 88 | 93 | 87 | |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 9: Generic Site Condition Standards for Use within 30 m of a Water Body in a Non-Potable Ground Water Condition - Soil - Residential/Parkland/Institutional/Industrial/Commercial/Community Property Use
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624926-624968 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:



Certificate of Analysis

AGAT WORK ORDER: 19T531714

PROJECT: City Of Brampton Drilling & Soil Sampling

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CLIENT NAME: SNC LAVALIN INC

SAMPLING SITE: 10192 Hwy 50, Brampton, ON

ATTENTION TO: Robert Mitzakov

SAMPLED BY: Joey Preston

Phenoxy Acid Herbicides (Soil)

DATE RECEIVED: 2019-10-17

DATE REPORTED: 2019-10-25

| Parameter | Unit | SAMPLE DESCRIPTION: | | BH-74-02 | BH-75-01 |
|---------------------------|------|---------------------|------|----------|----------|
| | | G / S | RDL | 624924 | 624940 |
| 2,4-D | ug/g | | 0.10 | <0.10 | <0.10 |
| 2,4,5-T | ug/g | | 0.10 | <0.10 | <0.10 |
| 2,4,5-TP (Silvex) | ug/g | | 0.10 | <0.10 | <0.10 |
| Dicamba | ug/g | | 0.10 | <0.10 | <0.10 |
| Dichlorprop | ug/g | | 0.10 | <0.10 | <0.10 |
| Dinoseb | ug/g | | 0.10 | <0.10 | <0.10 |
| Picloram | ug/g | | 0.10 | <0.10 | <0.10 |
| Diclofop-methyl | ug/g | | 0.10 | <0.10 | <0.10 |
| 2,3,4,6-Tetrachlorophenol | ug/g | | 0.05 | <0.05 | <0.05 |
| 2,4-Dichlorophenol | ug/g | 0.1 | 0.05 | <0.05 | <0.05 |
| 2,4,5-Trichlorophenol | ug/g | 0.1 | 0.05 | <0.05 | <0.05 |
| 2,4,6-Trichlorophenol | ug/g | 0.1 | 0.05 | <0.05 | <0.05 |
| Bromoxynil | ug/g | | 0.5 | <0.5 | <0.5 |
| MCPA | ug/g | | 1.0 | <1.0 | <1.0 |
| MCPA | ug/g | | 1.0 | <1.0 | <1.0 |
| Pentachlorophenol | ug/g | 0.1 | 0.05 | <0.05 | <0.05 |
| Phenoxy Extr | NA | | | Y | Y |
| Surrogate | Unit | Acceptable Limits | | | |
| DCAA | % | 50-130 | | 72 | 72 |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 9: Generic Site Condition Standards for Use within 30 m of a Water Body in a Non-Potable Ground Water Condition - 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.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:

Quality Assurance

CLIENT NAME: SNC LAVALIN INC

AGAT WORK ORDER: 19T531714

PROJECT: City Of Brampton Drilling & Soil Sampling

ATTENTION TO: Robert Mitzakov

SAMPLING SITE: 10192 Hwy 50, Brampton, ON

SAMPLED BY: Joey Preston

| Soil Analysis | | | | | | | | | | | | | | | |
|------------------------|-------|-----------|-----------|--------|-----|----------------|--------------|--------------------|-------|----------|--------------------|-------|----------|-------------------|-------|
| RPT Date: Oct 25, 2019 | | | DUPLICATE | | | | Method Blank | REFERENCE MATERIAL | | | METHOD BLANK SPIKE | | | MATRIX SPIKE | |
| PARAMETER | Batch | Sample Id | Dup #1 | Dup #2 | RPD | Measured Value | | Acceptable Limits | | Recovery | Acceptable Limits | | Recovery | Acceptable Limits | |
| | | | | | | | | Lower | Upper | | Lower | Upper | | Lower | Upper |

Metals - Full Metal Scan in Soil

| | | | | | | | | | | | | | | | |
|------------|--------|--------|-------|-------|------|--------|------|-----|------|------|-----|------|------|-----|------|
| Aluminum | 624922 | 624922 | 24600 | 23800 | 3.3% | < 5 | 104% | 70% | 130% | 116% | 80% | 120% | 101% | 70% | 130% |
| Antimony | 624922 | 624922 | <0.8 | <0.8 | NA | < 0.8 | 101% | 70% | 130% | 100% | 80% | 120% | 92% | 70% | 130% |
| Arsenic | 624922 | 624922 | 4 | 4 | NA | < 1 | 110% | 70% | 130% | 108% | 80% | 120% | 103% | 70% | 130% |
| Barium | 624922 | 624922 | 157 | 147 | 6.6% | < 2 | 109% | 70% | 130% | 101% | 80% | 120% | 97% | 70% | 130% |
| Beryllium | 624922 | 624922 | 0.9 | 0.9 | NA | < 0.5 | 106% | 70% | 130% | 115% | 80% | 120% | 105% | 70% | 130% |
| Bismuth | 624922 | 624922 | 0.2 | 0.2 | NA | < 0.1 | 103% | 70% | 130% | 105% | 80% | 120% | 98% | 70% | 130% |
| Boron | 624922 | 624922 | 7 | 7 | NA | < 5 | 79% | 70% | 130% | 106% | 80% | 120% | 103% | 70% | 130% |
| Cadmium | 624922 | 624922 | <0.5 | <0.5 | NA | < 0.5 | 114% | 70% | 130% | 101% | 80% | 120% | 100% | 70% | 130% |
| Chromium | 624922 | 624922 | 34 | 33 | 3.0% | < 2 | 99% | 70% | 130% | 102% | 80% | 120% | 102% | 70% | 130% |
| Cobalt | 624922 | 624922 | 13.8 | 13.1 | 5.2% | < 0.5 | 99% | 70% | 130% | 106% | 80% | 120% | 98% | 70% | 130% |
| Copper | 624922 | 624922 | 23 | 22 | 4.4% | < 1 | 99% | 70% | 130% | 103% | 80% | 120% | 99% | 70% | 130% |
| Iron | 624922 | 624922 | 32200 | 31100 | 3.5% | < 50 | 109% | 70% | 130% | 113% | 80% | 120% | 107% | 70% | 130% |
| Lead | 624922 | 624922 | 16 | 15 | 6.5% | < 1 | 111% | 70% | 130% | 106% | 80% | 120% | 100% | 70% | 130% |
| Lithium | 624922 | 624922 | 22.6 | 21.5 | 5.0% | < 0.5 | 95% | 70% | 130% | 110% | 80% | 120% | 105% | 70% | 130% |
| Manganese | 624922 | 624922 | 913 | 850 | 7.1% | < 5 | 105% | 70% | 130% | 110% | 80% | 120% | 107% | 70% | 130% |
| Molybdenum | 624922 | 624922 | <0.5 | <0.5 | NA | < 0.5 | 113% | 70% | 130% | 102% | 80% | 120% | 103% | 70% | 130% |
| Nickel | 624922 | 624922 | 30 | 29 | 3.4% | < 1 | 101% | 70% | 130% | 108% | 80% | 120% | 98% | 70% | 130% |
| Phosphorus | 624922 | 624922 | 920 | 898 | 2.4% | < 5 | 104% | 80% | 120% | 99% | 80% | 120% | 102% | 70% | 130% |
| Selenium | 624922 | 624922 | <0.8 | <0.8 | NA | < 0.8 | 114% | 70% | 130% | 110% | 80% | 120% | 106% | 70% | 130% |
| Silicon | 624922 | 624922 | 990 | 989 | 0.1% | < 5 | 95% | 70% | 130% | 94% | 80% | 120% | 98% | 70% | 130% |
| Silver | 624922 | 624922 | <0.4 | <0.4 | NA | < 0.4 | 104% | 70% | 130% | 104% | 80% | 120% | 102% | 70% | 130% |
| Strontium | 624922 | 624922 | 49 | 48 | 2.1% | < 5 | 99% | 70% | 130% | 110% | 80% | 120% | 102% | 70% | 130% |
| Thallium | 624922 | 624922 | <0.4 | <0.4 | NA | < 0.4 | 99% | 70% | 130% | 109% | 80% | 120% | 100% | 70% | 130% |
| Tin | 624922 | 624922 | <1 | <1 | NA | < 1 | 115% | 70% | 130% | 112% | 80% | 120% | 99% | 70% | 130% |
| Titanium | 624922 | 624922 | 270 | 258 | 4.5% | < 5 | 83% | 70% | 130% | 108% | 80% | 120% | 102% | 70% | 130% |
| Uranium | 624922 | 624922 | 0.72 | 0.69 | NA | < 0.50 | 112% | 70% | 130% | 106% | 80% | 120% | 98% | 70% | 130% |
| Vanadium | 624922 | 624922 | 44 | 42 | 4.7% | < 1 | 100% | 70% | 130% | 106% | 80% | 120% | 98% | 70% | 130% |
| Zinc | 624922 | 624922 | 84 | 81 | 3.6% | < 5 | 101% | 70% | 130% | 104% | 80% | 120% | 104% | 70% | 130% |
| Zirconium | 624922 | 624922 | 3.8 | 3.9 | 2.6% | < 0.5 | 96% | 70% | 130% | 95% | 80% | 120% | 98% | 70% | 130% |

O. Reg. 153(511) - ORPs (Soil)

| | | | | | | | | | |
|-------------------------|--------|--------|-------|-------|------|---------|------|-----|------|
| Electrical Conductivity | 624922 | 624922 | 0.207 | 0.204 | 1.5% | < 0.005 | 101% | 90% | 110% |
| Sodium Adsorption Ratio | 624922 | 624922 | 0.343 | 0.358 | 4.3% | NA | | | |

Comments: NA signifies Not Applicable.

Duplicate Qualifier: As the measured result approaches the RL, the uncertainty associated with the value increases dramatically, thus duplicate acceptance limits apply only where the average of the two duplicates is greater than five times the RL



Quality Assurance

CLIENT NAME: SNC LAVALIN INC

AGAT WORK ORDER: 19T531714

PROJECT: City Of Brampton Drilling & Soil Sampling

ATTENTION TO: Robert Mitzakov

SAMPLING SITE: 10192 Hwy 50, Brampton, ON

SAMPLED BY: Joey Preston

Soil Analysis (Continued)

| RPT Date: Oct 25, 2019 | | | DUPLICATE | | | Method Blank | REFERENCE MATERIAL | | METHOD BLANK SPIKE | | MATRIX SPIKE | | | | |
|------------------------|-------|-----------|-----------|--------|-----|--------------|--------------------|-------------------|--------------------|----------|-------------------|-------|----------|-------------------|-------|
| PARAMETER | Batch | Sample Id | Dup #1 | Dup #2 | RPD | | Measured Value | Acceptable Limits | | Recovery | Acceptable Limits | | Recovery | Acceptable Limits | |
| | | | | | | | | Lower | Upper | | Lower | Upper | | Lower | Upper |
| | | | | | | | | | | | | | | | |

Certified By: _____

Amanjot Bhella

Quality Assurance

CLIENT NAME: SNC LAVALIN INC

AGAT WORK ORDER: 19T531714

PROJECT: City Of Brampton Drilling & Soil Sampling

ATTENTION TO: Robert Mitzakov

SAMPLING SITE: 10192 Hwy 50, Brampton, ON

SAMPLED BY: Joey Preston

Trace Organics Analysis

| RPT Date: Oct 25, 2019 | | | DUPLICATE | | | Method Blank | REFERENCE MATERIAL | | | METHOD BLANK SPIKE | | | MATRIX SPIKE | | |
|--|--------|-----------|-----------|---------|-----|--------------|--------------------|-------------------|-------|--------------------|-------------------|-------|--------------|-------------------|-------|
| PARAMETER | Batch | Sample Id | Dup #1 | Dup #2 | RPD | | Measured Value | Acceptable Limits | | Recovery | Acceptable Limits | | Recovery | Acceptable Limits | |
| | | | | | | | | Lower | Upper | | Lower | Upper | | Lower | Upper |
| O. Reg. 153(511) - PAHs (Soil) | | | | | | | | | | | | | | | |
| Naphthalene | 624941 | 924941 | < 0.05 | < 0.05 | NA | < 0.05 | 99% | 50% | 140% | 106% | 50% | 140% | 109% | 50% | 140% |
| Acenaphthylene | 624941 | 924941 | < 0.05 | < 0.05 | NA | < 0.05 | 108% | 50% | 140% | 97% | 50% | 140% | 108% | 50% | 140% |
| Acenaphthene | 624941 | 924941 | < 0.05 | < 0.05 | NA | < 0.05 | 107% | 50% | 140% | 94% | 50% | 140% | 108% | 50% | 140% |
| Fluorene | 624941 | 924941 | < 0.05 | < 0.05 | NA | < 0.05 | 99% | 50% | 140% | 91% | 50% | 140% | 101% | 50% | 140% |
| Phenanthrene | 624941 | 924941 | < 0.05 | < 0.05 | NA | < 0.05 | 88% | 50% | 140% | 76% | 50% | 140% | 94% | 50% | 140% |
| Anthracene | 624941 | 924941 | < 0.05 | < 0.05 | NA | < 0.05 | 112% | 50% | 140% | 100% | 50% | 140% | 105% | 50% | 140% |
| Fluoranthene | 624941 | 924941 | < 0.05 | < 0.05 | NA | < 0.05 | 101% | 50% | 140% | 85% | 50% | 140% | 105% | 50% | 140% |
| Pyrene | 624941 | 924941 | < 0.05 | < 0.05 | NA | < 0.05 | 103% | 50% | 140% | 78% | 50% | 140% | 106% | 50% | 140% |
| Benz(a)anthracene | 624941 | 924941 | < 0.05 | < 0.05 | NA | < 0.05 | 102% | 50% | 140% | 75% | 50% | 140% | 82% | 50% | 140% |
| Chrysene | 624941 | 924941 | < 0.05 | < 0.05 | NA | < 0.05 | 108% | 50% | 140% | 77% | 50% | 140% | 102% | 50% | 140% |
| Benzo(b)fluoranthene | 624941 | 924941 | < 0.05 | < 0.05 | NA | < 0.05 | 85% | 50% | 140% | 98% | 50% | 140% | 77% | 50% | 140% |
| Benzo(k)fluoranthene | 624941 | 924941 | < 0.05 | < 0.05 | NA | < 0.05 | 101% | 50% | 140% | 105% | 50% | 140% | 85% | 50% | 140% |
| Benzo(a)pyrene | 624941 | 924941 | < 0.05 | < 0.05 | NA | < 0.05 | 114% | 50% | 140% | 99% | 50% | 140% | 107% | 50% | 140% |
| Indeno(1,2,3-cd)pyrene | 624941 | 924941 | < 0.05 | < 0.05 | NA | < 0.05 | 100% | 50% | 140% | 73% | 50% | 140% | 84% | 50% | 140% |
| Dibenz(a,h)anthracene | 624941 | 924941 | < 0.05 | < 0.05 | NA | < 0.05 | 96% | 50% | 140% | 77% | 50% | 140% | 81% | 50% | 140% |
| Benzo(g,h,i)perylene | 624941 | 924941 | < 0.05 | < 0.05 | NA | < 0.05 | 98% | 50% | 140% | 77% | 50% | 140% | 79% | 50% | 140% |
| O. Reg. 153(511) - OC Pesticides (Soil) | | | | | | | | | | | | | | | |
| Hexachloroethane | 625016 | | < 0.01 | < 0.01 | NA | < 0.01 | 81% | 50% | 140% | 88% | 50% | 140% | 78% | 50% | 140% |
| Gamma-Hexachlorocyclohexane | 625016 | | < 0.005 | < 0.005 | NA | < 0.005 | 83% | 50% | 140% | 87% | 50% | 140% | 83% | 50% | 140% |
| Heptachlor | 625016 | | < 0.005 | < 0.005 | NA | < 0.005 | 86% | 50% | 140% | 88% | 50% | 140% | 87% | 50% | 140% |
| Aldrin | 625016 | | < 0.005 | < 0.005 | NA | < 0.005 | 92% | 50% | 140% | 94% | 50% | 140% | 93% | 50% | 140% |
| Heptachlor Epoxide | 625016 | | < 0.005 | < 0.005 | NA | < 0.005 | 86% | 50% | 140% | 87% | 50% | 140% | 89% | 50% | 140% |
| Endosulfan | 625016 | | < 0.005 | < 0.005 | NA | < 0.005 | 96% | 50% | 140% | 89% | 50% | 140% | 84% | 50% | 140% |
| Chlordane | 625016 | | < 0.007 | < 0.007 | NA | < 0.007 | 86% | 50% | 140% | 89% | 50% | 140% | 88% | 50% | 140% |
| DDE | 625016 | | < 0.007 | < 0.007 | NA | < 0.007 | 94% | 50% | 140% | 88% | 50% | 140% | 94% | 50% | 140% |
| DDD | 625016 | | < 0.007 | < 0.007 | NA | < 0.007 | 95% | 50% | 140% | 83% | 50% | 140% | 92% | 50% | 140% |
| DDT | 625016 | | < 0.007 | < 0.007 | NA | < 0.007 | 106% | 50% | 140% | 94% | 50% | 140% | 89% | 50% | 140% |
| Dieldrin | 625016 | | < 0.005 | < 0.005 | NA | < 0.005 | 88% | 50% | 140% | 83% | 50% | 140% | 96% | 50% | 140% |
| Endrin | 625016 | | < 0.005 | < 0.005 | NA | < 0.005 | 98% | 50% | 140% | 85% | 50% | 140% | 88% | 50% | 140% |
| Methoxychlor | 625016 | | < 0.005 | < 0.005 | NA | < 0.005 | 103% | 50% | 140% | 89% | 50% | 140% | 91% | 50% | 140% |
| Hexachlorobenzene | 625016 | | < 0.005 | < 0.005 | NA | < 0.005 | 92% | 50% | 140% | 91% | 50% | 140% | 91% | 50% | 140% |
| Hexachlorobutadiene | 625016 | | < 0.01 | < 0.01 | NA | < 0.01 | 85% | 50% | 140% | 81% | 50% | 140% | 86% | 50% | 140% |
| Phenoxy Acid Herbicides (Soil) | | | | | | | | | | | | | | | |
| 2,4-D | 610597 | | < 0.10 | < 0.10 | NA | < 0.10 | 103% | 50% | 130% | 106% | 50% | 130% | 72% | 50% | 130% |
| 2,4,5-T | 610597 | | < 0.10 | < 0.10 | NA | < 0.10 | 106% | 50% | 130% | 114% | 50% | 130% | 74% | 50% | 130% |
| 2,4,5-TP (Silvex) | 610597 | | < 0.10 | < 0.10 | NA | < 0.10 | 101% | 50% | 130% | 112% | 50% | 130% | 68% | 50% | 130% |
| Dicamba | 610597 | | < 0.10 | < 0.10 | NA | < 0.10 | 103% | 50% | 130% | 106% | 50% | 130% | 72% | 50% | 130% |
| Dichlorprop | 610597 | | < 0.10 | < 0.10 | NA | < 0.10 | 109% | 50% | 130% | 75% | 50% | 130% | 85% | 50% | 130% |

Quality Assurance

CLIENT NAME: SNC LAVALIN INC

AGAT WORK ORDER: 19T531714

PROJECT: City Of Brampton Drilling & Soil Sampling

ATTENTION TO: Robert Mitzakov

SAMPLING SITE: 10192 Hwy 50, Brampton, ON

SAMPLED BY: Joey Preston

Trace Organics Analysis (Continued)

| RPT Date: Oct 25, 2019 | | | DUPLICATE | | | Method Blank | REFERENCE MATERIAL | | | METHOD BLANK SPIKE | | | MATRIX SPIKE | | |
|--|--------|-----------|-----------|--------|-----|--------------|--------------------|-------------------|-------|--------------------|-------------------|-------|--------------|-------------------|-------|
| PARAMETER | Batch | Sample Id | Dup #1 | Dup #2 | RPD | | Measured Value | Acceptable Limits | | Recovery | Acceptable Limits | | Recovery | Acceptable Limits | |
| | | | | | | | | Lower | Upper | | Lower | Upper | | Lower | Upper |
| Dinoseb | 610597 | | < 0.10 | < 0.10 | NA | < 0.10 | 102% | 50% | 130% | 106% | 50% | 130% | 81% | 50% | 130% |
| Picloram | 610597 | | < 0.10 | < 0.10 | NA | < 0.10 | 113% | 50% | 130% | 88% | 50% | 130% | 95% | 50% | 130% |
| Diclofop-methyl | 610597 | | < 0.10 | < 0.10 | NA | < 0.10 | 103% | 50% | 130% | 103% | 50% | 130% | 83% | 50% | 130% |
| 2,3,4,6-Tetrachlorophenol | 610597 | | < 0.05 | < 0.05 | NA | < 0.05 | 104% | 50% | 130% | 104% | 50% | 130% | 97% | 50% | 130% |
| 2,4-Dichlorophenol | 610597 | | < 0.05 | < 0.05 | NA | < 0.05 | 106% | 50% | 130% | 86% | 50% | 130% | 74% | 50% | 130% |
| 2,4,5-Trichlorophenol | 610597 | | < 0.05 | < 0.05 | NA | < 0.05 | 101% | 50% | 130% | 114% | 50% | 130% | 70% | 50% | 130% |
| 2,4,6-Trichlorophenol | 610597 | | < 0.05 | < 0.05 | NA | < 0.05 | 103% | 50% | 130% | 102% | 50% | 130% | 97% | 50% | 130% |
| Bromoxynil | 610597 | | < 0.5 | < 0.5 | NA | < 0.5 | 100% | 60% | 130% | 97% | 60% | 130% | 94% | 60% | 130% |
| MCPP (Mecoprop) | 610597 | | < 1.0 | < 1.0 | NA | < 1.0 | NA | 50% | 130% | 94% | 50% | 130% | 80% | 50% | 130% |
| MCPA | 610597 | | < 1.0 | < 1.0 | NA | < 1.0 | NA | 50% | 130% | 92% | 50% | 130% | 90% | 50% | 130% |
| Pentachlorophenol | 610597 | | < 0.05 | < 0.05 | NA | < 0.05 | 100% | 50% | 130% | 101% | 50% | 130% | 80% | 50% | 130% |
| O. Reg. 153(511) - PHCs F1 - F4 (-BTEX) (Soil) | | | | | | | | | | | | | | | |
| F1 (C6 to C10) | 624926 | 624926 | < 5 | < 5 | NA | < 5 | 89% | 60% | 130% | 96% | 85% | 115% | 94% | 70% | 130% |
| F2 (C10 to C16) | 610597 | | < 10 | < 10 | NA | < 10 | 93% | 60% | 130% | 88% | 80% | 120% | 80% | 70% | 130% |
| F3 (C16 to C34) | 610597 | | < 50 | < 50 | NA | < 50 | 93% | 60% | 130% | 87% | 80% | 120% | 76% | 70% | 130% |
| F4 (C34 to C50) | 610597 | | < 50 | < 50 | NA | < 50 | 71% | 60% | 130% | 111% | 80% | 120% | 104% | 70% | 130% |
| O. Reg. 153(511) - VOCs (Soil) | | | | | | | | | | | | | | | |
| Dichlorodifluoromethane | 620323 | | < 0.05 | < 0.05 | NA | < 0.05 | 96% | 50% | 140% | 95% | 50% | 140% | 102% | 50% | 140% |
| Vinyl Chloride | 620323 | | < 0.02 | < 0.02 | NA | < 0.02 | 102% | 50% | 140% | 106% | 50% | 140% | 102% | 50% | 140% |
| Bromomethane | 620323 | | < 0.05 | < 0.05 | NA | < 0.05 | 86% | 50% | 140% | 73% | 50% | 140% | 97% | 50% | 140% |
| Trichlorofluoromethane | 620323 | | < 0.05 | < 0.05 | NA | < 0.05 | 88% | 50% | 140% | 91% | 50% | 140% | 102% | 50% | 140% |
| Acetone | 620323 | | < 0.50 | < 0.50 | NA | < 0.50 | 91% | 50% | 140% | 91% | 50% | 140% | 86% | 50% | 140% |
| 1,1-Dichloroethylene | 620323 | | < 0.05 | < 0.05 | NA | < 0.05 | 72% | 50% | 140% | 88% | 60% | 130% | 83% | 50% | 140% |
| Methylene Chloride | 620323 | | < 0.05 | < 0.05 | NA | < 0.05 | 103% | 50% | 140% | 91% | 60% | 130% | 90% | 50% | 140% |
| Trans- 1,2-Dichloroethylene | 620323 | | < 0.05 | < 0.05 | NA | < 0.05 | 75% | 50% | 140% | 88% | 60% | 130% | 85% | 50% | 140% |
| Methyl tert-butyl Ether | 620323 | | < 0.05 | < 0.05 | NA | < 0.05 | 108% | 50% | 140% | 85% | 60% | 130% | 102% | 50% | 140% |
| 1,1-Dichloroethane | 620323 | | < 0.02 | < 0.02 | NA | < 0.02 | 92% | 50% | 140% | 86% | 60% | 130% | 90% | 50% | 140% |
| Methyl Ethyl Ketone | 620323 | | < 0.50 | < 0.50 | NA | < 0.50 | 101% | 50% | 140% | 101% | 50% | 140% | 81% | 50% | 140% |
| Cis- 1,2-Dichloroethylene | 620323 | | < 0.02 | < 0.02 | NA | < 0.02 | 82% | 50% | 140% | 88% | 60% | 130% | 88% | 50% | 140% |
| Chloroform | 620323 | | < 0.04 | < 0.04 | NA | < 0.04 | 83% | 50% | 140% | 87% | 60% | 130% | 85% | 50% | 140% |
| 1,2-Dichloroethane | 620323 | | < 0.03 | < 0.03 | NA | < 0.03 | 80% | 50% | 140% | 86% | 60% | 130% | 88% | 50% | 140% |
| 1,1,1-Trichloroethane | 620323 | | < 0.05 | < 0.05 | NA | < 0.05 | 91% | 50% | 140% | 91% | 60% | 130% | 102% | 50% | 140% |
| Carbon Tetrachloride | 620323 | | < 0.05 | < 0.05 | NA | < 0.05 | 111% | 50% | 140% | 102% | 60% | 130% | 90% | 50% | 140% |
| Benzene | 620323 | | < 0.02 | < 0.02 | NA | < 0.02 | 81% | 50% | 140% | 90% | 60% | 130% | 87% | 50% | 140% |
| 1,2-Dichloropropane | 620323 | | < 0.03 | < 0.03 | NA | < 0.03 | 93% | 50% | 140% | 85% | 60% | 130% | 84% | 50% | 140% |
| Trichloroethylene | 620323 | | < 0.03 | < 0.03 | NA | < 0.03 | 111% | 50% | 140% | 84% | 60% | 130% | 91% | 50% | 140% |
| Bromodichloromethane | 620323 | | < 0.05 | < 0.05 | NA | < 0.05 | 99% | 50% | 140% | 93% | 60% | 130% | 90% | 50% | 140% |
| Methyl Isobutyl Ketone | 620323 | | < 0.50 | < 0.50 | NA | < 0.50 | 102% | 50% | 140% | 100% | 50% | 140% | 82% | 50% | 140% |
| 1,1,2-Trichloroethane | 620323 | | < 0.04 | < 0.04 | NA | < 0.04 | 111% | 50% | 140% | 111% | 60% | 130% | 85% | 50% | 140% |

Quality Assurance

CLIENT NAME: SNC LAVALIN INC

AGAT WORK ORDER: 19T531714

PROJECT: City Of Brampton Drilling & Soil Sampling

ATTENTION TO: Robert Mitzakov

SAMPLING SITE: 10192 Hwy 50, Brampton, ON

SAMPLED BY: Joey Preston

Trace Organics Analysis (Continued)

| RPT Date: Oct 25, 2019 | | | DUPLICATE | | | Method Blank | REFERENCE MATERIAL | | | METHOD BLANK SPIKE | | | MATRIX SPIKE | | |
|---------------------------|--------|-----------|-----------|--------|-----|--------------|--------------------|-------------------|-------|--------------------|-------------------|-------|--------------|-------------------|-------|
| PARAMETER | Batch | Sample Id | Dup #1 | Dup #2 | RPD | | Measured Value | Acceptable Limits | | Recovery | Acceptable Limits | | Recovery | Acceptable Limits | |
| | | | | | | | | Lower | Upper | | Lower | Upper | | Lower | Upper |
| Toluene | 620323 | | < 0.05 | < 0.05 | NA | < 0.05 | 91% | 50% | 140% | 91% | 60% | 130% | 82% | 50% | 140% |
| Dibromochloromethane | 620323 | | < 0.05 | < 0.05 | NA | < 0.05 | 111% | 50% | 140% | 111% | 60% | 130% | 92% | 50% | 140% |
| Ethylene Dibromide | 620323 | | < 0.04 | < 0.04 | NA | < 0.04 | 83% | 50% | 140% | 91% | 60% | 130% | 113% | 50% | 140% |
| Tetrachloroethylene | 620323 | | < 0.05 | < 0.05 | NA | < 0.05 | 90% | 50% | 140% | 89% | 60% | 130% | 86% | 50% | 140% |
| 1,1,1,2-Tetrachloroethane | 620323 | | < 0.04 | < 0.04 | NA | < 0.04 | 110% | 50% | 140% | 111% | 60% | 130% | 102% | 50% | 140% |
| Chlorobenzene | 620323 | | < 0.05 | < 0.05 | NA | < 0.05 | 91% | 50% | 140% | 91% | 60% | 130% | 90% | 50% | 140% |
| Ethylbenzene | 620323 | | < 0.05 | < 0.05 | NA | < 0.05 | 111% | 50% | 140% | 112% | 60% | 130% | 110% | 50% | 140% |
| m & p-Xylene | 620323 | | < 0.05 | < 0.05 | NA | < 0.05 | 106% | 50% | 140% | 95% | 60% | 130% | 90% | 50% | 140% |
| Bromoform | 620323 | | < 0.05 | < 0.05 | NA | < 0.05 | 111% | 50% | 140% | 91% | 60% | 130% | 90% | 50% | 140% |
| Styrene | 620323 | | < 0.05 | < 0.05 | NA | < 0.05 | 91% | 50% | 140% | 113% | 60% | 130% | 110% | 50% | 140% |
| 1,1,2,2-Tetrachloroethane | 620323 | | < 0.05 | < 0.05 | NA | < 0.05 | 103% | 50% | 140% | 80% | 60% | 130% | 88% | 50% | 140% |
| o-Xylene | 620323 | | < 0.05 | < 0.05 | NA | < 0.05 | 91% | 50% | 140% | 86% | 60% | 130% | 83% | 50% | 140% |
| 1,3-Dichlorobenzene | 620323 | | < 0.05 | < 0.05 | NA | < 0.05 | 87% | 50% | 140% | 77% | 60% | 130% | 82% | 50% | 140% |
| 1,4-Dichlorobenzene | 620323 | | < 0.05 | < 0.05 | NA | < 0.05 | 110% | 50% | 140% | 77% | 60% | 130% | 84% | 50% | 140% |
| 1,2-Dichlorobenzene | 620323 | | < 0.05 | < 0.05 | NA | < 0.05 | 90% | 50% | 140% | 90% | 60% | 130% | 84% | 50% | 140% |
| 1,3-Dichloropropene | 620323 | | < 0.04 | < 0.04 | NA | < 0.04 | 95% | 50% | 140% | 99% | 60% | 130% | 100% | 50% | 140% |
| n-Hexane | 620323 | | < 0.05 | < 0.05 | NA | < 0.05 | 109% | 50% | 140% | 105% | 60% | 130% | 84% | 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).

Certified By: _____





Method Summary

CLIENT NAME: SNC LAVALIN INC

AGAT WORK ORDER: 19T531714

PROJECT: City Of Brampton Drilling & Soil Sampling

ATTENTION TO: Robert Mitzakov

SAMPLING SITE: 10192 Hwy 50, Brampton, ON

SAMPLED BY: Joey Preston

| PARAMETER | AGAT S.O.P | LITERATURE REFERENCE | ANALYTICAL TECHNIQUE |
|-------------------------|--------------|---|----------------------|
| Soil Analysis | | | |
| Aluminum | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Antimony | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Arsenic | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Barium | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Beryllium | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Bismuth | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Boron | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Cadmium | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Chromium | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Cobalt | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Copper | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Iron | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Lead | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Lithium | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Manganese | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Molybdenum | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Nickel | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Phosphorus | MET-93-6103 | EPA SW 846-3050B & 6020A | ICP-MS |
| Selenium | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Silicon | MET-93-6105 | EPA SW 846-3050B & 6010C | ICP/OES |
| Silver | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Strontium | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Thallium | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Tin | MET-93-6103 | EPA SW 846 3050B & 6020A | ICP-MS |
| Titanium | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Uranium | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Vanadium | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Zinc | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Zirconium | MET-93-6103 | EPA SW-846 3050B & 6020A | ICP-MS |
| Electrical Conductivity | INOR-93-6036 | McKeague 4.12, SM 2510 B | EC METER |
| Sodium Adsorption Ratio | INOR-93-6007 | McKeague 4.12 & 3.26 & EPA SW-846 6010C | ICP/OES |

Method Summary

CLIENT NAME: SNC LAVALIN INC

AGAT WORK ORDER: 19T531714

PROJECT: City Of Brampton Drilling & Soil Sampling

ATTENTION TO: Robert Mitzakov

SAMPLING SITE: 10192 Hwy 50, Brampton, ON

SAMPLED BY: Joey Preston

| PARAMETER | AGAT S.O.P | LITERATURE REFERENCE | ANALYTICAL TECHNIQUE |
|--------------------------------|-------------|--------------------------------|----------------------|
| Trace Organics Analysis | | | |
| Hexachloroethane | ORG-91-5113 | EPA SW-846 3541,3620 & 8081 | GC/ECD |
| Gamma-Hexachlorocyclohexane | ORG-91-5113 | EPA SW-846 3541,3620 & 8081 | GC/ECD |
| Heptachlor | ORG-91-5113 | EPA SW-846 3541,3620 & 8081 | GC/ECD |
| Aldrin | ORG-91-5113 | EPA SW-846 3541,3620 & 8081 | GC/ECD |
| Heptachlor Epoxide | ORG-91-5113 | EPA SW-846 3541,3620 & 8081 | GC/ECD |
| Endosulfan | ORG-91-5113 | EPA SW-846 3541,3620 & 8081 | GC/ECD |
| Chlordane | ORG-91-5113 | EPA SW-846 3541,3620 & 8081 | GC/ECD |
| DDE | ORG-91-5113 | EPA SW-846 3541,3620 & 8081 | GC/ECD |
| DDD | ORG-91-5113 | EPA SW-846 3541,3620 & 8081 | GC/ECD |
| DDT | ORG-91-5113 | EPA SW-846 3541,3620 & 8081 | GC/ECD |
| Dieldrin | ORG-91-5113 | EPA SW-846 3541,3620 & 8081 | GC/ECD |
| Endrin | ORG-91-5113 | EPA SW-846 3541,3620 & 8081 | GC/ECD |
| Methoxychlor | ORG-91-5113 | EPA SW-846 3541,3620 & 8081 | GC/ECD |
| Hexachlorobenzene | ORG-91-5113 | EPA SW-846 3541,3620 & 8081 | GC/ECD |
| Hexachlorobutadiene | ORG-91-5113 | EPA SW-846 3541,3620 & 8081 | GC/ECD |
| TCMX | ORG-91-5112 | EPA SW-846 3541,3620 & 8081 | GC/ECD |
| Decachlorobiphenyl | ORG-91-5113 | EPA SW-846 3541,3620 & 8081 | GC/ECD |
| Moisture Content | | MOE E3139 | BALANCE |
| Naphthalene | ORG-91-5106 | EPA SW846 3541 & 8270E | GC/MS |
| Acenaphthylene | ORG-91-5106 | EPA SW846 3541 & 8270E | GC/MS |
| Acenaphthene | ORG-91-5106 | EPA SW846 3541 & 8270E | GC/MS |
| Fluorene | ORG-91-5106 | EPA SW846 3541 & 8270E | GC/MS |
| Phenanthrene | ORG-91-5106 | EPA SW846 3541 & 8270E | GC/MS |
| Anthracene | ORG-91-5106 | EPA SW846 3541 & 8270E | GC/MS |
| Fluoranthene | ORG-91-5106 | EPA SW846 3541 & 8270E | GC/MS |
| Pyrene | ORG-91-5106 | EPA SW846 3541 & 8270E | GC/MS |
| Benz(a)anthracene | ORG-91-5106 | EPA SW846 3541 & 8270E | GC/MS |
| Chrysene | ORG-91-5106 | EPA SW846 3541 & 8270E | GC/MS |
| Benzo(b)fluoranthene | ORG-91-5106 | EPA SW846 3541 & 8270E | GC/MS |
| Benzo(k)fluoranthene | ORG-91-5106 | EPA SW846 3541 & 8270E | GC/MS |
| Benzo(a)pyrene | ORG-91-5106 | EPA SW846 3541 & 8270E | GC/MS |
| Indeno(1,2,3-cd)pyrene | ORG-91-5106 | EPA SW846 3541 & 8270E | GC/MS |
| Dibenz(a,h)anthracene | ORG-91-5106 | EPA SW846 3541 & 8270E | GC/MS |
| Benzo(g,h,i)perylene | ORG-91-5106 | EPA SW846 3541 & 8270E | GC/MS |
| 2-and 1-methyl Naphthalene | ORG-91-5106 | EPA SW846 3541 & 8270E | GC/MS |
| Moisture Content | ORG-91-5106 | EPA SW-846 3541 & 8270E | BALANCE |
| Chrysene-d12 | ORG-91-5106 | EPA SW846 3541 & 8270E | GC/MS |
| F1 (C6 to C10) | VOL-91-5009 | CCME Tier 1 Method, SW846 5035 | P&T GC/FID |
| F1 (C6 to C10) minus BTEX | VOL-91-5009 | CCME Tier 1 Method, SW846 5035 | P&T GC/FID |
| F2 (C10 to C16) | VOL-91-5009 | CCME Tier 1 Method | GC/FID |
| F3 (C16 to C34) | VOL-91-5009 | CCME Tier 1 Method | GC/FID |
| F4 (C34 to C50) | VOL-91-5009 | CCME Tier 1 Method | GC/FID |
| Gravimetric Heavy Hydrocarbons | VOL-91-5009 | CCME Tier 1 Method | BALANCE |
| Moisture Content | VOL-91-5009 | CCME Tier 1 Method | BALANCE |
| Terphenyl | VOL-91-5009 | CCME Tier 1 Method | GC/FID |
| 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 |



Method Summary

CLIENT NAME: SNC LAVALIN INC

AGAT WORK ORDER: 19T531714

PROJECT: City Of Brampton Drilling & Soil Sampling

ATTENTION TO: Robert Mitzakov

SAMPLING SITE: 10192 Hwy 50, Brampton, ON

SAMPLED BY: Joey Preston

| PARAMETER | AGAT S.O.P | LITERATURE REFERENCE | ANALYTICAL TECHNIQUE |
|-----------------------------|-------------|-------------------------|----------------------|
| 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 | EPA SW-846 5035 & 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 |
| Xylene Mixture | VOL-91-5002 | EPA SW-846 5035 & 8260D | (P&T)GC/MS |
| 1,3-Dichloropropene | 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 | EPA SW-846 5035 & 8260D | (P&T)GC/MS |
| 4-Bromofluorobenzene | VOL-91-5002 | EPA SW-846 5035 & 8260D | (P&T)GC/MS |
| 2,4-D | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| 2,4,5-T | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| 2,4,5-TP (Silvex) | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| Dicamba | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| Dichloroprop | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| Dinoseb | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| Picloram | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| Diclofop-methyl | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| 2,3,4,6-Tetrachlorophenol | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| 2,4-Dichlorophenol | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| 2,4,5-Trichlorophenol | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| 2,4,6-Trichlorophenol | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |



Method Summary

CLIENT NAME: SNC LAVALIN INC

AGAT WORK ORDER: 19T531714

PROJECT: City Of Brampton Drilling & Soil Sampling

ATTENTION TO: Robert Mitzakov

SAMPLING SITE: 10192 Hwy 50, Brampton, ON

SAMPLED BY: Joey Preston

| PARAMETER | AGAT S.O.P | LITERATURE REFERENCE | ANALYTICAL TECHNIQUE |
|-------------------|-------------|----------------------|----------------------|
| Bromoxynil | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| MCPP (Mecoprop) | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| MCPA | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| Pentachlorophenol | ORG-91-5110 | EPA SW-846 8151A | GC/ECD |
| DCAA | ORG-91-5110 | EPA SW-846 8151 | GC/ECD |
| Phenoxy Extr | | | N/A |



AGAT

Laboratories

Large

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: SNC-Lavalin Inc
 Contact: Robert Mitcakov
 Address: 195 The West Mall
Toronto, ON M9C 5K1
416-635-5882 x. 55805
 Phone: _____
 Reports to be sent to:
 1. Email: Robert.Mitcakov@snc-lavalin.com
 2. Email: Abed.Yassine@snc-lavalin.com

Regulatory Requirements: No Regulatory Requirement

(Please check all applicable boxes)
 Regulation 153/04 Sewer Use Regulation 558
 Table 9 Sanitary CCME
 Ind/Com Storm Prov. Water Quality Objectives (PWQO)
 Res/Park Agriculture Other
 Agriculture
 Soil Texture (Check One) Coarse Fine MISA
 Region _____ Indicate One

Project Information:

Project: City of Brampton, Drilling and Soil Sampling
 Site Location: 10192 HWY 50, Brampton, ON
 Sampled By: Jacq Preston
 AGAT Quote #: _____ PO: 66525
 Please note: If quotation number is not provided, client will be billed full price for analysis.

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

Field Filtered - Metals, Hg, CrVI

| Sample Identification | Date Sampled | Time Sampled | # of Containers | Sample Matrix | Comments/Special Instructions | Y/N | Metals and Inorganics | 0. Reg 153 | Field Filtered - Metals, Hg, CrVI | Regulation/Custom Metals | Nutrients | Volatiles | PHCs E1 - F4 | ABNS | PAHs | PCBs | Organochlorine Pesticides | TCLP | Sewer Use | Potentially Hazardous or High Concentration (Y/N) | |
|-----------------------|--------------|--------------|-----------------|---------------|-------------------------------|-----|-------------------------------------|--|-----------------------------------|--------------------------|--|---|--------------|------|------|------|--|--|---|---|--|
| BH-74-01 | Oct 16/19 | 10:15 | 2 | Soil | | | <input checked="" type="checkbox"/> | <input type="checkbox"/> All Metals <input type="checkbox"/> 153 Metals (excl. Hydrides) <input type="checkbox"/> Hydride Metals <input type="checkbox"/> 153 Metals (Incl. Hydrides) | | | <input type="checkbox"/> TP <input type="checkbox"/> NH ₃ <input type="checkbox"/> TKN <input type="checkbox"/> NO ₃ <input type="checkbox"/> NO ₂ <input type="checkbox"/> NO ₃ +NO ₂ | <input type="checkbox"/> VOC <input type="checkbox"/> BTEX <input type="checkbox"/> THM | | | | | <input type="checkbox"/> Total <input type="checkbox"/> Aroclors | <input type="checkbox"/> Organochlorine Pesticides | <input type="checkbox"/> M&I <input type="checkbox"/> VOCs <input type="checkbox"/> ABNS <input type="checkbox"/> B(a)P <input type="checkbox"/> PCBs | <input type="checkbox"/> Sewer Use | |
| BH-74-02 | | 10:20 | 1 | | | | <input checked="" type="checkbox"/> | <input type="checkbox"/> B-HWS <input type="checkbox"/> Cl ⁻ <input type="checkbox"/> CN <input type="checkbox"/> CH ⁺ <input type="checkbox"/> EC <input type="checkbox"/> FOC <input type="checkbox"/> Hg <input type="checkbox"/> pH <input type="checkbox"/> SAR | | | | | | | | | | | | | |
| BH-74-06 | | 10:40 | 4 | | | | <input checked="" type="checkbox"/> | | | | | | | | | | | | | | |
| BH-75-01 | | 12:45 | 1 | | | | <input checked="" type="checkbox"/> | | | | | | | | | | | | | | |
| BH-75-02 | | 12:55 | 2 | | Limited Recovery | | <input checked="" type="checkbox"/> | | | | | | | | | | | | | | |
| BH-75-22 | | 12:55 | 1 | | | | <input checked="" type="checkbox"/> | | | | | | | | | | | | | | |
| BH-75-06 | | 14:15 | 5 | | | | <input checked="" type="checkbox"/> | | | | | | | | | | | | | | |
| BH-75-66 | | 14:15 | 3 | | Limited Recovery | | <input checked="" type="checkbox"/> | | | | | | | | | | | | | | |

Invoice Information:

Company: SNC-Lavalin Inc Bill To Same: Yes No
 Contact: _____
 Address: _____
 Email: Payables@snc-lavalin.com

| Sample Identification | Date Sampled | Time Sampled | # of Containers | Sample Matrix | Comments/Special Instructions | Y/N | Metals and Inorganics | 0. Reg 153 | Field Filtered - Metals, Hg, CrVI | Regulation/Custom Metals | Nutrients | Volatiles | PHCs E1 - F4 | ABNS | PAHs | PCBs | Organochlorine Pesticides | TCLP | Sewer Use | Potentially Hazardous or High Concentration (Y/N) | |
|-----------------------|--------------|--------------|-----------------|---------------|-------------------------------|-----|-------------------------------------|--|-----------------------------------|--------------------------|--|---|--------------|------|------|------|--|--|---|---|--|
| BH-74-01 | Oct 16/19 | 10:15 | 2 | Soil | | | <input checked="" type="checkbox"/> | <input type="checkbox"/> All Metals <input type="checkbox"/> 153 Metals (excl. Hydrides) <input type="checkbox"/> Hydride Metals <input type="checkbox"/> 153 Metals (Incl. Hydrides) | | | <input type="checkbox"/> TP <input type="checkbox"/> NH ₃ <input type="checkbox"/> TKN <input type="checkbox"/> NO ₃ <input type="checkbox"/> NO ₂ <input type="checkbox"/> NO ₃ +NO ₂ | <input type="checkbox"/> VOC <input type="checkbox"/> BTEX <input type="checkbox"/> THM | | | | | <input type="checkbox"/> Total <input type="checkbox"/> Aroclors | <input type="checkbox"/> Organochlorine Pesticides | <input type="checkbox"/> M&I <input type="checkbox"/> VOCs <input type="checkbox"/> ABNS <input type="checkbox"/> B(a)P <input type="checkbox"/> PCBs | <input type="checkbox"/> Sewer Use | |
| BH-74-02 | | 10:20 | 1 | | | | <input checked="" type="checkbox"/> | <input type="checkbox"/> B-HWS <input type="checkbox"/> Cl ⁻ <input type="checkbox"/> CN <input type="checkbox"/> CH ⁺ <input type="checkbox"/> EC <input type="checkbox"/> FOC <input type="checkbox"/> Hg <input type="checkbox"/> pH <input type="checkbox"/> SAR | | | | | | | | | | | | | |
| BH-74-06 | | 10:40 | 4 | | | | <input checked="" type="checkbox"/> | | | | | | | | | | | | | | |
| BH-75-01 | | 12:45 | 1 | | | | <input checked="" type="checkbox"/> | | | | | | | | | | | | | | |
| BH-75-02 | | 12:55 | 2 | | Limited Recovery | | <input checked="" type="checkbox"/> | | | | | | | | | | | | | | |
| BH-75-22 | | 12:55 | 1 | | | | <input checked="" type="checkbox"/> | | | | | | | | | | | | | | |
| BH-75-06 | | 14:15 | 5 | | | | <input checked="" type="checkbox"/> | | | | | | | | | | | | | | |
| BH-75-66 | | 14:15 | 3 | | Limited Recovery | | <input checked="" type="checkbox"/> | | | | | | | | | | | | | | |

| | | | | | |
|---|---------------------------|-----------------------|--|---------------------------|----------------------|
| Samples Relinquished By (Print Name and Sign): <u>Joseph Preston</u> | Date: <u>Oct 17/19</u> | Time: <u>13:00</u> | Samples Received By (Print Name and Sign): <u>Robert Mitcakov</u> | Date: <u>Oct 17/19</u> | Time: <u>1:25</u> |
| 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: |

Laboratory Use Only

Work Order #: 19TS31714

Cooler Quantity: _____

Arrival Temperatures: 2.1 | 2.2 | 2.4

Custody Seal Intact: Yes No N/A

Notes: on 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

CLIENT NAME: SNC LAVALIN INC
235 LESMILL ROAD
TORONTO, ON M3B 2V1
(416) 679-6000

ATTENTION TO: Robert Mitzakov

PROJECT: City Of Brampton Drilling & Soil Sampling

AGAT WORK ORDER: 19T531731

SOIL ANALYSIS REVIEWED BY: Nivine Basily, Inorganics Report Writer

DATE REPORTED: Oct 29, 2019

PAGES (INCLUDING COVER): 5

VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (905) 712-5100

*NOTES

All samples will be disposed of within 30 days following analysis. Please contact the lab if you require additional sample storage time.



Certificate of Analysis

AGAT WORK ORDER: 19T531731

PROJECT: City Of Brampton Drilling & Soil Sampling

5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
TEL (905)712-5100
FAX (905)712-5122
<http://www.agatlabs.com>

CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Robert Mitzakov

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - ORPs (Soil)

DATE RECEIVED: 2019-10-17

DATE REPORTED: 2019-10-29

| | | SAMPLE DESCRIPTION: | | SS7 | SS8 | SS9 | SS99 | SS10 | SS11 | SS12 | SS13 |
|--------------------------|----------|---------------------|-----|------------|------------|------------|------------|------------|------------|------------|------------|
| | | SAMPLE TYPE: | | Soil |
| | | DATE SAMPLED: | | 2019-10-16 | 2019-10-16 | 2019-10-16 | 2019-10-16 | 2019-10-16 | 2019-10-16 | 2019-10-16 | 2019-10-16 |
| Parameter | Unit | G / S | RDL | 624888 | 624891 | 624892 | 624893 | 624894 | 624895 | 624896 | 624897 |
| pH, 2:1 CaCl2 Extraction | pH Units | NA | | 10.3 | 10.8 | 11.3 | 11.3 | 11.0 | 8.34 | 8.53 | 10.7 |
| | | SAMPLE DESCRIPTION: | | SS14 | | | | | | | |
| | | SAMPLE TYPE: | | Soil | | | | | | | |
| | | DATE SAMPLED: | | 2019-10-16 | | | | | | | |
| Parameter | Unit | G / S | RDL | 624898 | | | | | | | |
| pH, 2:1 CaCl2 Extraction | pH Units | NA | | 9.01 | | | | | | | |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 8: Generic Site Condition Standards for Use within 30 m of a Water Body in a Potable Ground Water Condition - 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.

624888-624898 pH was determined on the 0.01M CaCl2 extract obtained from 2:1 leaching procedure (2 parts extraction fluid:1 part wet soil).

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:

Quality Assurance

 CLIENT NAME: SNC LAVALIN INC
 PROJECT: City Of Brampton Drilling & Soil Sampling
 SAMPLING SITE:

 AGAT WORK ORDER: 19T531731
 ATTENTION TO: Robert Mitzakov
 SAMPLED BY:

| Soil Analysis | | | | | | | | | | | | | | | |
|------------------------|-------|-----------|-----------|--------|-----|----------------|--------------|--------------------|-------|----------|--------------------|-------|--------------|-------------------|-------|
| RPT Date: Oct 29, 2019 | | | DUPLICATE | | | | Method Blank | REFERENCE MATERIAL | | | METHOD BLANK SPIKE | | MATRIX SPIKE | | |
| PARAMETER | Batch | Sample Id | Dup #1 | Dup #2 | RPD | Measured Value | | Acceptable Limits | | Recovery | Acceptable Limits | | Recovery | Acceptable Limits | |
| | | | | | | | | Lower | Upper | | Lower | Upper | | Lower | Upper |

| | | | | | | | | | | | |
|--------------------------------------|--------|--------|------|------|------|----|------|-----|------|--|--|
| O. Reg. 153(511) - ORPs (Soil) | | | | | | | | | | | |
| pH, 2:1 CaCl ₂ Extraction | 624888 | 624888 | 10.3 | 10.3 | 0.2% | NA | 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.

| | | | | | | | | | | | |
|--------------------------------------|--------|--|------|------|------|----|------|-----|------|--|--|
| O. Reg. 153(511) - ORPs (Soil) | | | | | | | | | | | |
| pH, 2:1 CaCl ₂ Extraction | 650517 | | 7.51 | 7.49 | 0.3% | NA | 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.

Certified By: _____





Method Summary

CLIENT NAME: SNC LAVALIN INC

AGAT WORK ORDER: 19T531731

PROJECT: City Of Brampton Drilling & Soil Sampling

ATTENTION TO: Robert Mitzakov

SAMPLING SITE:

SAMPLED BY:

| PARAMETER | AGAT S.O.P | LITERATURE REFERENCE | ANALYTICAL TECHNIQUE |
|---|--------------|---------------------------|----------------------|
| Soil Analysis pH, 2:1 CaCl ₂ Extraction | INOR-93-6031 | MSA part 3 & SM 4500-H+ B | pH METER |



AGAT Laboratories

5835 Coopers Avenue
Mississauga, Ontario L4Z 1Y2
Ph: 905.712.5100 Fax: 905.712.5122
web@earth.agatlabs.com

Laboratory Use Only

Work Order #: 19TS31731

Cooler Quantity: _____

Arrival Temperatures: 2.1 | 2.2 | 2.4

Custody Seal Intact: Yes No N/A

Notes: on file

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: SNC-Lavalin Inc

Contact: Robert Mitzukail

Address: 45 The West Mall
Toronto, ON M9C 5K1

Phone: 416-635-5444 Fax: 558005

Reports to be sent to:

1. Email: Robert.Mitzukail@snc-lavalin.com

2. Email: Abed.Yassin@snc-lavalin.com

Regulatory Requirements: No Regulatory Requirement
(Please check all applicable boxes)

Regulation 153/04
Table 9 (Medicine Clp*)

Ind/Com
 Res/Park
 Agriculture

Soil Texture (Check One)
 Coarse
 Fine

Sewer Use
 Sanitary
 Storm

Regulation 558
 CCME
 Prov. Water Quality Objectives (PWQO)
 Other

Region: _____
Indicate One

MISA
Indicate One

Project Information:

Project: City of Brampton Building of Sol. Supply

Site Location: 1042 HULLY ST, Brampton ON

Sampled By: Jessy Persten

AGAT Quote #: _____ PO: 665125

Please note: If quotation number is not provided, client will be billed full price for analysis.

Is this submission for a Record of Site Condition?

Yes No

Report Guideline on Certificate of Analysis

Yes No

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

Invoice Information:

Bill To Same: Yes No

Company: SNC-Lavalin Inc

Contact: _____

Address: _____

Email: Payable@snc-lavalin.com

Sample Matrix Legend

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

| Field Filtered - Metals, Hg, CVI | O. Reg 153 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|-------------------------------------|---|---|--------------------------------|-----------------------------|-----------------------------|--|-----------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|-----------------------------|--|-----------------------------|--|--|--|------------------------------|-------------------------------|------------------------------|--------------|------|------|-------------|-----------------------------------|---------------------------|------------------------------------|-------------------------------|-------------------------------|------------------------------|-------------------------------|---|
| | Metals and Inorganics | | | Nutrients | | | Volatiles | | | Sewer Use | | | | | | | | | | | | | | | | | | | | | | | |
| | <input type="checkbox"/> All Metals | <input type="checkbox"/> 153 Metals (excl Hydrides) | <input type="checkbox"/> Hydride Metals | <input type="checkbox"/> B-HWS | <input type="checkbox"/> CI | <input type="checkbox"/> CN | <input type="checkbox"/> C ⁶⁺ | <input type="checkbox"/> EC | <input type="checkbox"/> FOC | <input type="checkbox"/> Hg | <input type="checkbox"/> pH | <input type="checkbox"/> SAR | <input type="checkbox"/> TP | <input type="checkbox"/> NH ₃ | <input type="checkbox"/> TN | <input type="checkbox"/> NO ₂ | <input type="checkbox"/> NO ₃ | <input type="checkbox"/> NO _x | <input type="checkbox"/> VOC | <input type="checkbox"/> BTEX | <input type="checkbox"/> THM | PHCS F1 - F4 | ABNS | PAHS | PCBS: Total | <input type="checkbox"/> Aroclors | Organochlorine Pesticides | TCLP: <input type="checkbox"/> M&M | <input type="checkbox"/> VOCs | <input type="checkbox"/> ABNS | <input type="checkbox"/> BIP | <input type="checkbox"/> PCBs | Potentially Hazardous or High Concentration (Y/N) |

| Sample Identification | Date Sampled | Time Sampled | # of Containers | Sample Matrix | Comments/ Special Instructions | Y/N |
|-----------------------|------------------|--------------|-----------------|---------------|-----------------------------------|-----|
| <u>SS-01 557</u> | <u>Oct 16/19</u> | <u>15:05</u> | <u>1</u> | <u>Soil</u> | | |
| <u>SS-02 558</u> | | <u>15:05</u> | <u>1</u> | | | |
| <u>SS-03 559</u> | | <u>15:10</u> | <u>1</u> | | | |
| <u>SS-04 5599</u> | | <u>15:10</u> | <u>1</u> | | | |
| <u>SS-4 5510</u> | | <u>15:15</u> | <u>1</u> | | | |
| <u>SS-5 5511</u> | | <u>15:23</u> | <u>1</u> | | <u>On hold</u> | |
| <u>SS-6 5512</u> | | <u>15:35</u> | <u>1</u> | | <u>On hold</u> | |
| <u>SS-7 5513</u> | | <u>15:45</u> | <u>1</u> | | <u>On hold</u> | |
| <u>SS-8 5514</u> | | <u>15:55</u> | <u>1</u> | | <u>On hold</u> | |

| | | | | | |
|--|---------------------------|-----------------------|--|---------------------------|----------------------|
| Samples Relinquished By (Print Name and Sign): <u>Jessy Persten</u> | Date: <u>Oct 17/19</u> | Time: <u>13:05</u> | Samples Received By (Print Name and Sign): <u>Abed Yassin</u> | Date: <u>Oct 17/19</u> | Time: <u>1:25</u> |
| Samples Relinquished By (Print Name and Sign): | Date: | Time: | Samples Received By (Print Name and Sign): | Date: | Time: |

Page _____ of _____

N#: **T096041**



CLIENT NAME: SNC LAVALIN INC
235 LESMILL ROAD
TORONTO, ON M3B 2V1
(416) 679-6000

ATTENTION TO: Robert Mitzakov

PROJECT: City Of Brampton Drilling & Soil Sampling

AGAT WORK ORDER: 19T531736

TRACE ORGANICS REVIEWED BY: Navdeep Kaur Kansera, Senior Lab Technician

DATE REPORTED: Oct 23, 2019

PAGES (INCLUDING COVER): 8

VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (905) 712-5100

*NOTES

All samples will be disposed of within 30 days following analysis. Please contact the lab if you require additional sample storage time.



Certificate of Analysis

AGAT WORK ORDER: 19T531736

PROJECT: City Of Brampton Drilling & Soil Sampling

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CANADA L4Z 1Y2
TEL (905)712-5100
FAX (905)712-5122
<http://www.agatlabs.com>

CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Robert Mitzakov

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - PHCs F1/BTEX (Water)

DATE RECEIVED: 2019-10-17

DATE REPORTED: 2019-10-23

| | | SAMPLE DESCRIPTION: Trip Blank | | |
|---------------------------|------|--------------------------------|-----|--------|
| | | SAMPLE TYPE: Water | | |
| | | DATE SAMPLED: 2019-10-16 | | |
| Parameter | Unit | G / S | RDL | 624923 |
| F1 (C6-C10) | µg/L | | 25 | <25 |
| F1 (C6 to C10) minus BTEX | µg/L | 420 | 25 | <25 |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 8: Generic Site Condition Standards for Use within 30 m of a Water Body in a Potable Ground Water Condition - Ground Water - All Types of Property Uses

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.

624923 The C6-C10 fraction is calculated using Toluene response factor.

Total C6-C10 results are corrected for BTEX contributions.

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.

This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.

nC6 and nC10 response factors are within 30% of Toluene response factor.

Extraction and holding times were met for this sample.

NA = Not Applicable

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:

Navdeep Kansera



Certificate of Analysis

AGAT WORK ORDER: 19T531736

PROJECT: City Of Brampton Drilling & Soil Sampling

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CANADA L4Z 1Y2
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<http://www.agatlabs.com>

CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Robert Mitzakov

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - VOCs (Water)

DATE RECEIVED: 2019-10-17

DATE REPORTED: 2019-10-23

| Parameter | Unit | SAMPLE DESCRIPTION: Trip Blank | | |
|-----------------------------|------|--------------------------------|------|--------|
| | | G / S | RDL | 624923 |
| Dichlorodifluoromethane | µg/L | 590 | 0.20 | <0.20 |
| Vinyl Chloride | µg/L | 0.5 | 0.17 | <0.17 |
| Bromomethane | µg/L | 0.89 | 0.20 | <0.20 |
| Trichlorofluoromethane | µg/L | 150 | 0.40 | <0.40 |
| Acetone | µg/L | 2700 | 1.0 | <1.0 |
| 1,1-Dichloroethylene | µg/L | 1.6 | 0.30 | <0.30 |
| Methylene Chloride | µg/L | 50 | 0.30 | <0.30 |
| trans- 1,2-Dichloroethylene | µg/L | 1.6 | 0.20 | <0.20 |
| Methyl tert-butyl ether | µg/L | 15 | 0.20 | <0.20 |
| 1,1-Dichloroethane | µg/L | 5 | 0.30 | <0.30 |
| Methyl Ethyl Ketone | µg/L | 1800 | 1.0 | <1.0 |
| cis- 1,2-Dichloroethylene | µg/L | 1.6 | 0.20 | <0.20 |
| Chloroform | µg/L | 2.4 | 0.20 | <0.20 |
| 1,2-Dichloroethane | µg/L | 1.6 | 0.20 | <0.20 |
| 1,1,1-Trichloroethane | µg/L | 200 | 0.30 | <0.30 |
| Carbon Tetrachloride | µg/L | 0.79 | 0.20 | <0.20 |
| Benzene | µg/L | 5 | 0.20 | <0.20 |
| 1,2-Dichloropropane | µg/L | 5 | 0.20 | <0.20 |
| Trichloroethylene | µg/L | 1.6 | 0.20 | <0.20 |
| Bromodichloromethane | µg/L | 16 | 0.20 | <0.20 |
| Methyl Isobutyl Ketone | µg/L | 640 | 1.0 | <1.0 |
| 1,1,2-Trichloroethane | µg/L | 4.7 | 0.20 | <0.20 |
| Toluene | µg/L | 22 | 0.20 | <0.20 |
| Dibromochloromethane | µg/L | 25 | 0.10 | <0.10 |
| Ethylene Dibromide | µg/L | 0.2 | 0.10 | <0.10 |
| Tetrachloroethylene | µg/L | 1.6 | 0.20 | <0.20 |
| 1,1,1,2-Tetrachloroethane | µg/L | 1.1 | 0.10 | <0.10 |
| Chlorobenzene | µg/L | 30 | 0.10 | <0.10 |
| Ethylbenzene | µg/L | 2.4 | 0.10 | <0.10 |
| m & p-Xylene | µg/L | | 0.20 | <0.20 |

Certified By:

Navdeep Kansera



Certificate of Analysis

AGAT WORK ORDER: 19T531736

PROJECT: City Of Brampton Drilling & Soil Sampling

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CANADA L4Z 1Y2
TEL (905)712-5100
FAX (905)712-5122
<http://www.agatlabs.com>

CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Robert Mitzakov

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - VOCs (Water)

DATE RECEIVED: 2019-10-17

DATE REPORTED: 2019-10-23

| Parameter | | Unit | G / S | RDL | 624923 |
|--|--|------------|-------------------|------|--------|
| SAMPLE DESCRIPTION: Trip Blank SAMPLE TYPE: Water DATE SAMPLED: 2019-10-16 | | | | | |
| Bromoform | | µg/L | 25 | 0.10 | <0.10 |
| Styrene | | µg/L | 5.4 | 0.10 | <0.10 |
| 1,1,2,2-Tetrachloroethane | | µg/L | 1 | 0.10 | <0.10 |
| o-Xylene | | µg/L | | 0.10 | <0.10 |
| 1,3-Dichlorobenzene | | µg/L | 59 | 0.10 | <0.10 |
| 1,4-Dichlorobenzene | | µg/L | 1 | 0.10 | <0.10 |
| 1,2-Dichlorobenzene | | µg/L | 3 | 0.10 | <0.10 |
| 1,3-Dichloropropene | | µg/L | 0.5 | 0.30 | <0.30 |
| Xylene Mixture | | µg/L | 300 | 0.20 | <0.20 |
| n-Hexane | | µg/L | 51 | 0.20 | <0.20 |
| Surrogate | | Unit | Acceptable Limits | | |
| Toluene-d8 | | % Recovery | 50-140 | | 106 |
| 4-Bromofluorobenzene | | % Recovery | 50-140 | | 91 |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 8: Generic Site Condition Standards for Use within 30 m of a Water Body in a Potable Ground Water Condition - Ground Water - All Types of Property Uses
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.

624923 Xylenes total is a calculated parameter. The calculated value is the sum of m&p-Xylene and 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:

Navdeep Kansera

Quality Assurance

CLIENT NAME: SNC LAVALIN INC

AGAT WORK ORDER: 19T531736

PROJECT: City Of Brampton Drilling & Soil Sampling

ATTENTION TO: Robert Mitzakov

SAMPLING SITE:

SAMPLED BY:

Trace Organics Analysis

| RPT Date: Oct 23, 2019 | | | DUPLICATE | | | Method Blank | REFERENCE MATERIAL | | | METHOD BLANK SPIKE | | | MATRIX SPIKE | | |
|---------------------------------|--------|-----------|-----------|--------|-----|--------------|--------------------|-------------------|-------|--------------------|-------------------|-------|--------------|-------------------|-------|
| PARAMETER | Batch | Sample Id | Dup #1 | Dup #2 | RPD | | Measured Value | Acceptable Limits | | Recovery | Acceptable Limits | | Recovery | Acceptable Limits | |
| | | | | | | | | Lower | Upper | | Lower | Upper | | Lower | Upper |
| O. Reg. 153(511) - VOCs (Water) | | | | | | | | | | | | | | | |
| Dichlorodifluoromethane | 623574 | | < 0.20 | < 0.20 | NA | < 0.20 | 82% | 50% | 140% | 73% | 50% | 140% | 78% | 50% | 140% |
| Vinyl Chloride | 623574 | | < 0.17 | < 0.17 | NA | < 0.17 | 77% | 50% | 140% | 122% | 50% | 140% | 105% | 50% | 140% |
| Bromomethane | 623574 | | < 0.20 | < 0.20 | NA | < 0.20 | 93% | 50% | 140% | 113% | 50% | 140% | 87% | 50% | 140% |
| Trichlorofluoromethane | 623574 | | < 0.40 | < 0.40 | NA | < 0.40 | 83% | 50% | 140% | 82% | 50% | 140% | 81% | 50% | 140% |
| Acetone | 623574 | | < 1.0 | < 1.0 | NA | < 1.0 | 112% | 50% | 140% | 104% | 50% | 140% | 112% | 50% | 140% |
| 1,1-Dichloroethylene | 623574 | | < 0.30 | < 0.30 | NA | < 0.30 | 79% | 50% | 140% | 76% | 60% | 130% | 96% | 50% | 140% |
| Methylene Chloride | 623574 | | < 0.30 | < 0.30 | NA | < 0.30 | 105% | 50% | 140% | 101% | 60% | 130% | 103% | 50% | 140% |
| trans- 1,2-Dichloroethylene | 623574 | | < 0.20 | < 0.20 | NA | < 0.20 | 79% | 50% | 140% | 89% | 60% | 130% | 93% | 50% | 140% |
| Methyl tert-butyl ether | 623574 | | < 0.20 | < 0.20 | NA | < 0.20 | 91% | 50% | 140% | 94% | 60% | 130% | 107% | 50% | 140% |
| 1,1-Dichloroethane | 623574 | | < 0.30 | < 0.30 | NA | < 0.30 | 94% | 50% | 140% | 84% | 60% | 130% | 98% | 50% | 140% |
| Methyl Ethyl Ketone | 623574 | | < 1.0 | < 1.0 | NA | < 1.0 | 110% | 50% | 140% | 89% | 50% | 140% | 104% | 50% | 140% |
| cis- 1,2-Dichloroethylene | 623574 | | < 0.20 | < 0.20 | NA | < 0.20 | 86% | 50% | 140% | 100% | 60% | 130% | 98% | 50% | 140% |
| Chloroform | 623574 | | < 0.20 | < 0.20 | NA | < 0.20 | 102% | 50% | 140% | 84% | 60% | 130% | 98% | 50% | 140% |
| 1,2-Dichloroethane | 623574 | | < 0.20 | < 0.20 | NA | < 0.20 | 93% | 50% | 140% | 103% | 60% | 130% | 108% | 50% | 140% |
| 1,1,1-Trichloroethane | 623574 | | < 0.30 | < 0.30 | NA | < 0.30 | 84% | 50% | 140% | 86% | 60% | 130% | 90% | 50% | 140% |
| Carbon Tetrachloride | 623574 | | < 0.20 | < 0.20 | NA | < 0.20 | 73% | 50% | 140% | 80% | 60% | 130% | 74% | 50% | 140% |
| Benzene | 623574 | | < 0.20 | < 0.20 | NA | < 0.20 | 101% | 50% | 140% | 85% | 60% | 130% | 101% | 50% | 140% |
| 1,2-Dichloropropane | 623574 | | < 0.20 | < 0.20 | NA | < 0.20 | 82% | 50% | 140% | 89% | 60% | 130% | 81% | 50% | 140% |
| Trichloroethylene | 623574 | | < 0.20 | < 0.20 | NA | < 0.20 | 77% | 50% | 140% | 96% | 60% | 130% | 95% | 50% | 140% |
| Bromodichloromethane | 623574 | | < 0.20 | < 0.20 | NA | < 0.20 | 84% | 50% | 140% | 81% | 60% | 130% | 83% | 50% | 140% |
| Methyl Isobutyl Ketone | 623574 | | < 1.0 | < 1.0 | NA | < 1.0 | 90% | 50% | 140% | 102% | 50% | 140% | 87% | 50% | 140% |
| 1,1,2-Trichloroethane | 623574 | | < 0.20 | < 0.20 | NA | < 0.20 | 97% | 50% | 140% | 110% | 60% | 130% | 84% | 50% | 140% |
| Toluene | 623574 | | < 0.20 | < 0.20 | NA | < 0.20 | 115% | 50% | 140% | 90% | 60% | 130% | 110% | 50% | 140% |
| Dibromochloromethane | 623574 | | < 0.10 | < 0.10 | NA | < 0.10 | 112% | 50% | 140% | 94% | 60% | 130% | 103% | 50% | 140% |
| Ethylene Dibromide | 623574 | | < 0.10 | < 0.10 | NA | < 0.10 | 107% | 50% | 140% | 117% | 60% | 130% | 117% | 50% | 140% |
| Tetrachloroethylene | 623574 | | < 0.20 | < 0.20 | NA | < 0.20 | 107% | 50% | 140% | 84% | 60% | 130% | 107% | 50% | 140% |
| 1,1,1,2-Tetrachloroethane | 623574 | | < 0.10 | < 0.10 | NA | < 0.10 | 111% | 50% | 140% | 95% | 60% | 130% | 104% | 50% | 140% |
| Chlorobenzene | 623574 | | < 0.10 | < 0.10 | NA | < 0.10 | 112% | 50% | 140% | 94% | 60% | 130% | 108% | 50% | 140% |
| Ethylbenzene | 623574 | | < 0.10 | < 0.10 | NA | < 0.10 | 105% | 50% | 140% | 84% | 60% | 130% | 103% | 50% | 140% |
| m & p-Xylene | 623574 | | < 0.20 | < 0.20 | NA | < 0.20 | 105% | 50% | 140% | 87% | 60% | 130% | 83% | 50% | 140% |
| Bromoform | 623574 | | < 0.10 | < 0.10 | NA | < 0.10 | 113% | 50% | 140% | 103% | 60% | 130% | 106% | 50% | 140% |
| Styrene | 623574 | | < 0.10 | < 0.10 | NA | < 0.10 | 86% | 50% | 140% | 104% | 60% | 130% | 100% | 50% | 140% |
| 1,1,2,2-Tetrachloroethane | 623574 | | < 0.10 | < 0.10 | NA | < 0.10 | 108% | 50% | 140% | 102% | 60% | 130% | 95% | 50% | 140% |
| o-Xylene | 623574 | | < 0.10 | < 0.10 | NA | < 0.10 | 111% | 50% | 140% | 93% | 60% | 130% | 109% | 50% | 140% |
| 1,3-Dichlorobenzene | 623574 | | < 0.10 | < 0.10 | NA | < 0.10 | 115% | 50% | 140% | 92% | 60% | 130% | 115% | 50% | 140% |
| 1,4-Dichlorobenzene | 623574 | | < 0.10 | < 0.10 | NA | < 0.10 | 109% | 50% | 140% | 94% | 60% | 130% | 111% | 50% | 140% |
| 1,2-Dichlorobenzene | 623574 | | < 0.10 | < 0.10 | NA | < 0.10 | 113% | 50% | 140% | 97% | 60% | 130% | 111% | 50% | 140% |
| 1,3-Dichloropropene | 623574 | | < 0.30 | < 0.30 | NA | < 0.30 | 80% | 50% | 140% | 93% | 60% | 130% | 83% | 50% | 140% |
| n-Hexane | 623574 | | < 0.20 | < 0.20 | NA | < 0.20 | 78% | 50% | 140% | 84% | 60% | 130% | 80% | 50% | 140% |

Quality Assurance

CLIENT NAME: SNC LAVALIN INC

AGAT WORK ORDER: 19T531736

PROJECT: City Of Brampton Drilling & Soil Sampling

ATTENTION TO: Robert Mitzakov

SAMPLING SITE:

SAMPLED BY:

Trace Organics Analysis (Continued)

| | | | | | | | | | | | | | | | |
|------------------------|-------|--------------|-----------|--------|-----|-------------------|-----------------|----------------------|-------|----------|----------------------|-------|--------------|----------------------|-------|
| RPT Date: Oct 23, 2019 | | | DUPLICATE | | | | Method Blank | REFERENCE MATERIAL | | | METHOD BLANK SPIKE | | MATRIX SPIKE | | |
| PARAMETER | Batch | Sample Id | Dup #1 | Dup #2 | RPD | Measured Value | | Acceptable Limits | | Recovery | Acceptable Limits | | Recovery | Acceptable Limits | |
| | | | | | | | | Lower | Upper | | Lower | Upper | | Lower | Upper |

O. Reg. 153(511) - PHCs F1/BTEX (Water)

| | | | | | | | | | | | | | | |
|-------------|--------|------|------|----|------|-----|-----|------|-----|-----|------|-----|-----|------|
| F1 (C6-C10) | 607594 | < 25 | < 25 | NA | < 25 | 95% | 60% | 140% | 89% | 60% | 140% | 93% | 60% | 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).

Certified By:



Method Summary

CLIENT NAME: SNC LAVALIN INC

AGAT WORK ORDER: 19T531736

PROJECT: City Of Brampton Drilling & Soil Sampling

ATTENTION TO: Robert Mitzakov

SAMPLING SITE:

SAMPLED BY:

| PARAMETER | AGAT S.O.P | LITERATURE REFERENCE | ANALYTICAL TECHNIQUE |
|-----------------------------|--------------|--------------------------|----------------------|
| Trace Organics Analysis | | | |
| F1 (C6-C10) | VOL-91- 5010 | MOE E3421 | (P&T)GC/FID |
| F1 (C6 to C10) minus BTEX | VOL-91-5010 | MOE PHC-E3421 | P&T GC/FID |
| Dichlorodifluoromethane | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Vinyl Chloride | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Bromomethane | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Trichlorofluoromethane | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Acetone | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| 1,1-Dichloroethylene | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Methylene Chloride | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| trans- 1,2-Dichloroethylene | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Methyl tert-butyl ether | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| 1,1-Dichloroethane | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Methyl Ethyl Ketone | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| cis- 1,2-Dichloroethylene | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Chloroform | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| 1,2-Dichloroethane | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| 1,1,1-Trichloroethane | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Carbon Tetrachloride | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Benzene | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| 1,2-Dichloropropane | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Trichloroethylene | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Bromodichloromethane | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Methyl Isobutyl Ketone | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| 1,1,2-Trichloroethane | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Toluene | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Dibromochloromethane | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Ethylene Dibromide | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Tetrachloroethylene | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| 1,1,1,2-Tetrachloroethane | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Chlorobenzene | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Ethylbenzene | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| m & p-Xylene | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Bromoform | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Styrene | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| 1,1,2,2-Tetrachloroethane | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| o-Xylene | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| 1,3-Dichlorobenzene | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| 1,4-Dichlorobenzene | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| 1,2-Dichlorobenzene | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| 1,3-Dichloropropene | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Xylene Mixture | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| n-Hexane | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Toluene-d8 | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| 4-Bromofluorobenzene | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |

Appendix F

Laboratory Certificates of Analysis (Groundwater)

TABLE F.1: Field Blank QA/QC Results
Groundwater Samples
10192 Highway 50, Brampton, ON

| Parameter | Sample Location | | FIELD BLANK | FIELD BLANK | TRIP BLANK | TRIP BLANK |
|--|----------------------------|-----------------------|---------------------------|---------------------------|--------------------------|--------------------------|
| | Laboratory Sample ID | SNC-Lavalin Sample ID | 306345 | 640960 | 306348 | 624923 |
| | Sampling Date (yyyy/mm/dd) | | Field Blank 2019/06/24 | Field Blank 2019/10/22 | Trip Blank 2019/06/24 | Trip Blank 2019/10/16 |
| | RDL | Units | | | | |
| Petroleum Hydrocarbon (PHC) Fractions | | | | | | |
| PHC F1 | 25 | µg/L | < 25 | < 25 | - | < 25 |
| PHC F2 | 100 | µg/L | < 100 | < 100 | - | - |
| PHC F3 | 100 | µg/L | < 100 | < 100 | - | - |
| PHC F4 | 100 | µg/L | < 100 | < 100 | - | - |
| Volatile Organic Compounds | | | | | | |
| Acetone | 1.0 | µg/L | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Benzene | 0.20 | µg/L | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| Bromodichloromethane | 0.20 | µg/L | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| Bromoform | 0.10 | µg/L | < 0.10 | < 0.10 | < 0.10 | < 0.10 |
| Bromomethane | 0.20 | µg/L | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| Carbon Tetrachloride | 0.20 | µg/L | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| Chlorobenzene | 0.10 | µg/L | < 0.10 | < 0.10 | < 0.10 | < 0.10 |
| Chloroform | 0.20 | µg/L | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| Dibromochloromethane | 0.10 | µg/L | < 0.10 | < 0.10 | < 0.10 | < 0.10 |
| Dichlorobenzene, 1,2- (o-DCB) | 0.10 | µg/L | < 0.10 | < 0.10 | < 0.10 | < 0.10 |
| Dichlorobenzene, 1,3- (m-DCB) | 0.10 | µg/L | < 0.10 | < 0.10 | < 0.10 | < 0.10 |
| Dichlorobenzene, 1,4- (p-DCB) | 0.10 | µg/L | < 0.10 | < 0.10 | < 0.10 | < 0.10 |
| Dichlorodifluoromethane | 0.20 | µg/L | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| Dichloroethane, 1,1- | 0.30 | µg/L | < 0.30 | < 0.30 | < 0.30 | < 0.30 |
| Dichloroethane, 1,2- | 0.20 | µg/L | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| Dichloroethylene, 1,1- | 0.30 | µg/L | < 0.30 | < 0.30 | < 0.30 | < 0.30 |
| Dichloroethylene, cis-1,2- | 0.20 | µg/L | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| Dichloroethylene, trans-1,2- | 0.20 | µg/L | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| Dichloropropane, 1,2- | 0.20 | µg/L | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| Dichloropropene, 1,3- | 0.30 | µg/L | < 0.30 | < 0.30 | < 0.30 | < 0.30 |
| Ethylbenzene | 0.10 | µg/L | < 0.10 | < 0.10 | < 0.10 | < 0.10 |
| Ethylene Dibromide (Dibromoethane, 1,2-) | 0.10 | µg/L | < 0.10 | < 0.10 | < 0.10 | < 0.10 |
| Hexane (n) | 0.20 | µg/L | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| Methyl Ethyl Ketone | 1.0 | µg/L | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Methyl Isobutyl Ketone | 1.0 | µg/L | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Methyl t-butyl ether (MTBE) | 0.20 | µg/L | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| Methylene Chloride | 0.30 | µg/L | < 0.30 | < 0.30 | < 0.30 | < 0.30 |
| Styrene | 0.10 | µg/L | < 0.10 | < 0.10 | < 0.10 | < 0.10 |
| Tetrachloroethane, 1,1,1,2- | 0.10 | µg/L | < 0.10 | < 0.10 | < 0.10 | < 0.10 |
| Tetrachloroethane, 1,1,2,2- | 0.10 | µg/L | < 0.10 | < 0.10 | < 0.10 | < 0.10 |
| Tetrachloroethylene | 0.20 | µg/L | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| Toluene | 0.20 | µg/L | < 0.20 | 0.31 | < 0.20 | < 0.20 |
| Trichloroethane, 1,1,1- | 0.30 | µg/L | < 0.30 | < 0.30 | < 0.30 | < 0.30 |
| Trichloroethane, 1,1,2- | 0.20 | µg/L | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| Trichloroethylene | 0.20 | µg/L | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| Trichlorofluoromethane | 0.40 | µg/L | < 0.40 | < 0.40 | < 0.40 | < 0.40 |
| Vinyl Chloride | 0.17 | µg/L | < 0.17 | < 0.17 | < 0.17 | < 0.17 |
| Xylenes | 0.20 | µg/L | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| Xylenes, m+p- | 0.20 | µg/L | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| Xylenes, o- | 0.10 | µg/L | < 0.10 | < 0.10 | < 0.10 | < 0.10 |

Footnotes:

Additional terms may be defined within the body of SNC-Lavalin's report.

RDL - Reportable Detection Limit, unless otherwise noted

< - Denotes concentration less than indicated detection limit

"-" - Not analyzed

na - Not applicable

µg/L – micrograms per litre

TABLE : F.2 Field Duplicate RPD Calculations
Groundwater Samples
10192 Highway 50, Brampton, ON

| Sample Location | | RPD | MW-51 | MW-51 | RPD | MW-75 | MW-75 | RPD |
|--|-------|-------|------------|--------------------|-----|------------|--------------------|-----|
| Laboratory Sample ID | | | 311538 | 306337 | | 640955 | 640959 | |
| SNC-Lavalin Sample ID | | Limit | MW-51 | MW-51 | | MW-75 | MW-75 | |
| Sampling Date (yyyy/mm/dd) | | 80% | 2019/06/24 | 2019/06/24 | | 2019/10/22 | 2019/10/22 | |
| | | | | Duplicate of MW-51 | | | Duplicate of MW-75 | |
| Parameter | Units | | | | | | | |
| Petroleum Hydrocarbon (PHC) Fractions | | | | | | | | |
| PHC F1 | µg/L | 80% | < 25 | < 25 | * | < 25 | < 25 | * |
| PHC F2 | µg/L | 80% | < 100 | - | - | < 100 | < 100 | * |
| PHC F3 | µg/L | 80% | < 100 | - | - | < 100 | < 100 | * |
| PHC F4 | µg/L | 80% | < 100 | - | - | < 100 | < 100 | * |
| Volatile Organic Compounds | | | | | | | | |
| Acetone | µg/L | 80% | < 1.0 | < 1.0 | * | 190 | 230 | 19% |
| Benzene | µg/L | 80% | < 0.20 | < 0.20 | * | 1.8 | 2.2 | 20% |
| Bromodichloromethane | µg/L | 80% | < 0.20 | < 0.20 | * | < 0.20 | < 0.20 | * |
| Bromoform | µg/L | 80% | < 0.10 | < 0.10 | * | < 0.10 | < 0.10 | * |
| Bromomethane | µg/L | 80% | < 0.20 | < 0.20 | * | < 0.20 | < 0.20 | * |
| Carbon Tetrachloride | µg/L | 80% | < 0.20 | < 0.20 | * | < 0.20 | < 0.20 | * |
| Chlorobenzene | µg/L | 80% | < 0.10 | < 0.10 | * | < 0.10 | < 0.10 | * |
| Chloroform | µg/L | 80% | < 0.20 | < 0.20 | * | < 0.20 | < 0.20 | * |
| Dibromochloromethane | µg/L | 80% | < 0.10 | < 0.10 | * | < 0.10 | < 0.10 | * |
| Dichlorobenzene, 1,2- (o-DCB) | µg/L | 80% | < 0.10 | < 0.10 | * | < 0.10 | < 0.10 | * |
| Dichlorobenzene, 1,3- (m-DCB) | µg/L | 80% | < 0.10 | < 0.10 | * | < 0.10 | < 0.10 | * |
| Dichlorobenzene, 1,4- (p-DCB) | µg/L | 80% | < 0.10 | < 0.10 | * | < 0.10 | < 0.10 | * |
| Dichlorodifluoromethane | µg/L | 80% | < 0.20 | < 0.20 | * | < 0.20 | < 0.20 | * |
| Dichloroethane, 1,1- | µg/L | 80% | < 0.30 | < 0.30 | * | < 0.30 | < 0.30 | * |
| Dichloroethane, 1,2- | µg/L | 80% | < 0.20 | < 0.20 | * | < 0.20 | < 0.20 | * |
| Dichloroethylene, 1,1- | µg/L | 80% | < 0.30 | < 0.30 | * | < 0.30 | < 0.30 | * |
| Dichloroethylene, cis-1,2- | µg/L | 80% | < 0.20 | < 0.20 | * | < 0.20 | < 0.20 | * |
| Dichloroethylene, trans-1,2- | µg/L | 80% | < 0.20 | < 0.20 | * | < 0.20 | < 0.20 | * |
| Dichloropropane, 1,2- | µg/L | 80% | < 0.20 | < 0.20 | * | < 0.20 | < 0.20 | * |
| Dichloropropane, 1,3- | µg/L | 80% | < 0.30 | < 0.30 | * | < 0.30 | < 0.30 | * |
| Ethylbenzene | µg/L | 80% | < 0.10 | < 0.10 | * | 0.23 | 0.22 | * |
| Ethylene Dibromide (Dibromoethane, 1,2-) | µg/L | 80% | < 0.10 | < 0.10 | * | < 0.10 | < 0.10 | * |
| Hexane (n) | µg/L | 80% | < 0.20 | < 0.20 | * | < 0.20 | < 0.20 | * |
| Methyl Ethyl Ketone | µg/L | 80% | < 1.0 | < 1.0 | * | 9.7 | 12 | 21% |
| Methyl Isobutyl Ketone | µg/L | 80% | < 1.0 | < 1.0 | * | 1.2 | 1.3 | * |
| Methyl t-butyl ether (MTBE) | µg/L | 80% | < 0.20 | < 0.20 | * | < 0.20 | < 0.20 | * |
| Methylene Chloride | µg/L | 80% | < 0.30 | < 0.30 | * | < 0.30 | < 0.30 | * |
| Styrene | µg/L | 80% | < 0.10 | < 0.10 | * | 0.98 | 1 | 2% |
| Tetrachloroethane, 1,1,1,2- | µg/L | 80% | < 0.10 | < 0.10 | * | < 0.10 | < 0.10 | * |
| Tetrachloroethane, 1,1,2,2- | µg/L | 80% | < 0.10 | < 0.10 | * | < 0.10 | < 0.10 | * |
| Tetrachloroethylene | µg/L | 80% | < 0.20 | < 0.20 | * | < 0.20 | < 0.20 | * |
| Toluene | µg/L | 80% | < 0.20 | < 0.20 | * | 1.9 | 1.7 | 11% |
| Trichloroethane, 1,1,1- | µg/L | 80% | < 0.30 | < 0.30 | * | < 0.30 | < 0.30 | * |
| Trichloroethane, 1,1,2- | µg/L | 80% | < 0.20 | < 0.20 | * | < 0.20 | < 0.20 | * |
| Trichloroethylene | µg/L | 80% | < 0.20 | < 0.20 | * | < 0.20 | < 0.20 | * |
| Trichlorofluoromethane | µg/L | 80% | < 0.40 | < 0.40 | * | < 0.40 | < 0.40 | * |
| Vinyl Chloride | µg/L | 80% | < 0.17 | < 0.17 | * | < 0.17 | < 0.17 | * |
| Xylenes | µg/L | 80% | < 0.20 | < 0.20 | * | 0.56 | 0.54 | * |
| Xylenes, m+p- | µg/L | 80% | < 0.20 | < 0.20 | * | 0.33 | 0.31 | * |
| Xylenes, o- | µg/L | 80% | < 0.10 | < 0.10 | * | 0.23 | 0.23 | * |

Footnotes:

Additional terms may be defined within the body of SNC-Lavalin's report.

< - Denotes concentration less than indicated detection limit

"-" - Not analyzed

na - Not applicable

µg/L – micrograms per litre

µS/cm - microSiemens per centimetre

mg/L - milligrams per litre

* - RPD not calculable

RPD - Relative Percent Difference (not calculated when one or both results are less than or equal to 5X RDL)

BOLD RPD exceeds limit



CLIENT NAME: SNC LAVALIN INC
235 LESMILL ROAD
TORONTO, ON M3B 2V1
(416) 679-6000

ATTENTION TO: Robert Mitzakov

PROJECT: 665125

AGAT WORK ORDER: 19T484919

TRACE ORGANICS REVIEWED BY: Neli Popnikolova, Senior Chemist

WATER ANALYSIS REVIEWED BY: Parvathi Malemath, Data Reviewer

DATE REPORTED: Jul 05, 2019

PAGES (INCLUDING COVER): 19

VERSION*: 2

Should you require any information regarding this analysis please contact your client services representative at (905) 712-5100

*NOTES

VERSION 2: Revised report with sample ID amendment issued on July 12, 2019.

All samples will be disposed of within 30 days following analysis. Please contact the lab if you require additional sample storage time.



Certificate of Analysis

AGAT WORK ORDER: 19T484919

PROJECT: 665125

5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
TEL (905)712-5100
FAX (905)712-5122
<http://www.agatlabs.com>

CLIENT NAME: SNC LAVALIN INC
SAMPLING SITE: 10192 Hwy 50, Brampton, ON

ATTENTION TO: Robert Mitzakov
SAMPLED BY: Sara Akib

O. Reg. 153(511) - PAHs (Water)

DATE RECEIVED: 2019-06-26

DATE REPORTED: 2019-07-05

| Parameter | Unit | SAMPLE DESCRIPTION: | | MW-03 | MW-02 | MW-22 | MW-35 | MW-30 | MW-70 |
|----------------------------|------|---------------------|------|------------|------------|------------|------------|------------|------------|
| | | SAMPLE TYPE: | | Water | Water | Water | Water | Water | Water |
| | | DATE SAMPLED: | | 2019-06-25 | 2019-06-24 | 2019-06-25 | 2019-06-24 | 2019-06-24 | 2019-06-24 |
| | | G / S | RDL | 306131 | 306302 | 306303 | 306309 | 306340 | 306341 |
| Naphthalene | µg/L | 1400 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Acenaphthylene | µg/L | 1.4 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Acenaphthene | µg/L | 600 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Fluorene | µg/L | 290 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Phenanthrene | µg/L | 380 | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| Anthracene | µg/L | 1 | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| Fluoranthene | µg/L | 73 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Pyrene | µg/L | 5.7 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Benz(a)anthracene | µg/L | 1.8 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Chrysene | µg/L | 0.7 | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| Benzo(b)fluoranthene | µg/L | 0.75 | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| Benzo(k)fluoranthene | µg/L | 0.4 | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| Benzo(a)pyrene | µg/L | 0.81 | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Indeno(1,2,3-cd)pyrene | µg/L | 0.2 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Dibenz(a,h)anthracene | µg/L | 0.4 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Benzo(g,h,i)perylene | µg/L | 0.2 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| 2-and 1-methyl Naphthalene | µg/L | 1500 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Surrogate | Unit | Acceptable Limits | | | | | | | |
| Chrysene-d12 | % | 50-140 | | 106 | 106 | 94 | 83 | 95 | 85 |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 9: Generic Site Condition Standards for Use within 30 m of a Water Body in a Non-Potable Ground Water Condition - Ground Water - All Types of Property Uses
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.

306131-306341 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:



Certificate of Analysis

AGAT WORK ORDER: 19T484919

PROJECT: 665125

5835 COOPERS AVENUE
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CLIENT NAME: SNC LAVALIN INC
SAMPLING SITE: 10192 Hwy 50, Brampton, ON

ATTENTION TO: Robert Mitzakov
SAMPLED BY: Sara Akib

O. Reg. 153(511) - PHCs F1 - F4 (-BTEX) (Water)

DATE RECEIVED: 2019-06-26

DATE REPORTED: 2019-07-05

| Parameter | Unit | SAMPLE DESCRIPTION: | | MW-51 | Field Blank |
|--------------------------------|------|---------------------|-----|--------|-------------|
| | | G / S | RDL | 306316 | 306345 |
| F1 (C6 - C10) | µg/L | | 25 | <25 | <25 |
| F1 (C6 to C10) minus BTEX | µg/L | 420 | 25 | <25 | <25 |
| F2 (C10 to C16) | µg/L | 150 | 100 | <100 | <100 |
| F3 (C16 to C34) | µg/L | 500 | 100 | <100 | <100 |
| F4 (C34 to C50) | µg/L | 500 | 100 | <100 | <100 |
| Gravimetric Heavy Hydrocarbons | µg/L | 500 | 500 | NA | NA |
| Surrogate | Unit | Acceptable Limits | | | |
| Terphenyl | % | 60-140 | 69 | 69 | 67 |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 9: Generic Site Condition Standards for Use within 30 m of a Water Body in a Non-Potable Ground Water Condition - Ground Water - All Types of Property Uses
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.

306316-306345 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 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 indicated 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 contribution.
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC6 and nC10 response factors are within 30% of Toluene response factor.
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.
Fractions 1-4 are quantified with the contribution of PAHs. Under Ontario Regulation 153, results are considered valid without determining the PAH contribution if not requested by the client.

Analysis performed at AGAT Toronto (unless marked by *)

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Certificate of Analysis

AGAT WORK ORDER: 19T484919
PROJECT: 665125

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CLIENT NAME: SNC LAVALIN INC
SAMPLING SITE: 10192 Hwy 50, Brampton, ON

ATTENTION TO: Robert Mitzakov
SAMPLED BY: Sara Akib

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

DATE RECEIVED: 2019-06-26

DATE REPORTED: 2019-07-05

| Parameter | Unit | SAMPLE DESCRIPTION: | | MW-03 | MW-02 | MW-22 | MW-35 | MW-30 | MW-70 |
|-----------------------------------|------|---------------------|-----|--------|--------|--------|--------|--------|--------|
| | | G / S | RDL | 306131 | 306302 | 306303 | 306309 | 306340 | 306341 |
| F1 (C6-C10) | µg/L | | 25 | <25 | <25 | <25 | <25 | <25 | <25 |
| F1 (C6 to C10) minus BTEX | µg/L | 420 | 25 | <25 | <25 | <25 | <25 | <25 | <25 |
| F2 (C10 to C16) | µg/L | 150 | 100 | <100 | <100 | <100 | <100 | <100 | <100 |
| F2 (C10 to C16) minus Naphthalene | µg/L | | 100 | <100 | <100 | <100 | <100 | <100 | <100 |
| F3 (C16 to C34) | µg/L | 500 | 100 | <100 | <100 | <100 | <100 | <100 | <100 |
| F3 (C16 to C34) minus PAHs | µg/L | | 100 | <100 | <100 | <100 | <100 | <100 | <100 |
| F4 (C34 to C50) | µg/L | 500 | 100 | <100 | <100 | <100 | <100 | <100 | <100 |
| Gravimetric Heavy Hydrocarbons | µg/L | 500 | 500 | NA | NA | NA | NA | NA | NA |
| Surrogate | Unit | Acceptable Limits | | | | | | | |
| Terphenyl | % | 60-140 | | 77 | 112 | 89 | 110 | 83 | 72 |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 9: Generic Site Condition Standards for Use within 30 m of a Water Body in a Non-Potable Ground Water Condition - Ground Water - All Types of Property Uses
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.

306131-306341 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 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 *)

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AGAT WORK ORDER: 19T484919

PROJECT: 665125

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CLIENT NAME: SNC LAVALIN INC
SAMPLING SITE: 10192 Hwy 50, Brampton, ON

ATTENTION TO: Robert Mitzakov
SAMPLED BY: Sara Akib

O. Reg. 153(511) - PHCs F1/BTEX (Water)

DATE RECEIVED: 2019-06-26

DATE REPORTED: 2019-07-05

| | | SAMPLE DESCRIPTION: MW-511 | | |
|---------------------------|------|----------------------------|-----|--------|
| | | SAMPLE TYPE: Water | | |
| | | DATE SAMPLED: 2019-06-24 | | |
| Parameter | Unit | G / S | RDL | 306337 |
| F1 (C6-C10) | µg/L | | 25 | <25 |
| F1 (C6 to C10) minus BTEX | µg/L | 420 | 25 | <25 |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 9: Generic Site Condition Standards for Use within 30 m of a Water Body in a Non-Potable Ground Water Condition - Ground Water - All Types of Property Uses

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.

306337

The C6-C10 fraction is calculated using Toluene response factor.

Total C6-C10 results are corrected for BTEX contributions.

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.

This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.

nC6 and nC10 response factors are within 30% of Toluene response factor.

Extraction and holding times were met for this sample.

NA = Not Applicable

Analysis performed at AGAT Toronto (unless marked by *)

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AGAT WORK ORDER: 19T484919

PROJECT: 665125

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CLIENT NAME: SNC LAVALIN INC

SAMPLING SITE: 10192 Hwy 50, Brampton, ON

ATTENTION TO: Robert Mitzakov

SAMPLED BY: Sara Akib

O. Reg. 153(511) - VOCs (Water)

DATE RECEIVED: 2019-06-26

DATE REPORTED: 2019-07-05

| Parameter | Unit | SAMPLE DESCRIPTION: | | MW-03 | MW-02 | MW-22 | MW-35 | MW-51 | MW-511 | MW-30 | MW-70 |
|-----------------------------|------|---------------------|------|------------|------------|------------|------------|------------|------------|------------|------------|
| | | SAMPLE TYPE: | | Water |
| | | DATE SAMPLED: | | 2019-06-25 | 2019-06-24 | 2019-06-25 | 2019-06-24 | 2019-06-24 | 2019-06-24 | 2019-06-24 | 2019-06-24 |
| | | G / S | RDL | 306131 | 306302 | 306303 | 306309 | 306316 | 306337 | 306340 | 306341 |
| Dichlorodifluoromethane | µg/L | 3500 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Vinyl Chloride | µg/L | 0.5 | 0.17 | <0.17 | <0.17 | <0.17 | <0.17 | <0.17 | <0.17 | <0.17 | <0.17 |
| Bromomethane | µg/L | 5.6 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Trichlorofluoromethane | µg/L | 2000 | 0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 |
| Acetone | µg/L | 100000 | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,1-Dichloroethylene | µg/L | 1.6 | 0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 |
| Methylene Chloride | µg/L | 610 | 0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 |
| trans- 1,2-Dichloroethylene | µg/L | 1.6 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Methyl tert-butyl ether | µg/L | 190 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| 1,1-Dichloroethane | µg/L | 320 | 0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 |
| Methyl Ethyl Ketone | µg/L | 470000 | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| cis- 1,2-Dichloroethylene | µg/L | 1.6 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Chloroform | µg/L | 2.4 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| 1,2-Dichloroethane | µg/L | 1.6 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| 1,1,1-Trichloroethane | µg/L | 640 | 0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 |
| Carbon Tetrachloride | µg/L | 0.79 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Benzene | µg/L | 44 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| 1,2-Dichloropropane | µg/L | 16 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Trichloroethylene | µg/L | 1.6 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Bromodichloromethane | µg/L | 67000 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Methyl Isobutyl Ketone | µg/L | 140000 | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,1,2-Trichloroethane | µg/L | 4.7 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Toluene | µg/L | 14000 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Dibromochloromethane | µg/L | 65000 | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| Ethylene Dibromide | µg/L | 0.25 | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| Tetrachloroethylene | µg/L | 1.6 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| 1,1,1,2-Tetrachloroethane | µg/L | 3.3 | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| Chlorobenzene | µg/L | 500 | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| Ethylbenzene | µg/L | 1800 | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| m & p-Xylene | µg/L | | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 19T484919

PROJECT: 665125

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CLIENT NAME: SNC LAVALIN INC
SAMPLING SITE: 10192 Hwy 50, Brampton, ON

ATTENTION TO: Robert Mitzakov
SAMPLED BY: Sara Akib

O. Reg. 153(511) - VOCs (Water)

DATE RECEIVED: 2019-06-26

DATE REPORTED: 2019-07-05

| SAMPLE DESCRIPTION: | | MW-03 | MW-02 | MW-22 | MW-35 | MW-51 | MW-511 | MW-30 | MW-70 | | |
|---------------------------|------------|-------------------|------------|------------|------------|------------|------------|------------|------------|--------|--------|
| SAMPLE TYPE: | | Water | Water | Water | Water | Water | Water | Water | Water | | |
| DATE SAMPLED: | | 2019-06-25 | 2019-06-24 | 2019-06-25 | 2019-06-24 | 2019-06-24 | 2019-06-24 | 2019-06-24 | 2019-06-24 | | |
| Parameter | Unit | G / S | RDL | 306131 | 306302 | 306303 | 306309 | 306316 | 306337 | 306340 | 306341 |
| Bromoform | µg/L | 380 | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| Styrene | µg/L | 1300 | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| 1,1,2,2-Tetrachloroethane | µg/L | 3.2 | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| o-Xylene | µg/L | | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| 1,3-Dichlorobenzene | µg/L | 7600 | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| 1,4-Dichlorobenzene | µg/L | 8 | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| 1,2-Dichlorobenzene | µg/L | 4600 | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| 1,3-Dichloropropene | µg/L | 5.2 | 0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 |
| Xylene Mixture | µg/L | 3300 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| n-Hexane | µg/L | 51 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Surrogate | Unit | Acceptable Limits | | | | | | | | | |
| Toluene-d8 | % Recovery | 50-140 | | 83 | 82 | 92 | 92 | 90 | 82 | 84 | 87 |
| 4-Bromofluorobenzene | % Recovery | 50-140 | | 75 | 73 | 88 | 83 | 88 | 75 | 76 | 82 |

Certified By:



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PROJECT: 665125

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CLIENT NAME: SNC LAVALIN INC
SAMPLING SITE: 10192 Hwy 50, Brampton, ON

ATTENTION TO: Robert Mitzakov
SAMPLED BY: Sara Akib

O. Reg. 153(511) - VOCs (Water)

DATE RECEIVED: 2019-06-26

DATE REPORTED: 2019-07-05

| Parameter | Unit | SAMPLE DESCRIPTION: | | Field Blank | Trip Blank |
|-----------------------------|------|---------------------|------|-------------|------------|
| | | G / S | RDL | Water | Water |
| | | DATE SAMPLED: | | 2019-06-24 | 2019-06-24 |
| | | | | 306345 | 306348 |
| Dichlorodifluoromethane | µg/L | 3500 | 0.20 | <0.20 | <0.20 |
| Vinyl Chloride | µg/L | 0.5 | 0.17 | <0.17 | <0.17 |
| Bromomethane | µg/L | 5.6 | 0.20 | <0.20 | <0.20 |
| Trichlorofluoromethane | µg/L | 2000 | 0.40 | <0.40 | <0.40 |
| Acetone | µg/L | 100000 | 1.0 | <1.0 | <1.0 |
| 1,1-Dichloroethylene | µg/L | 1.6 | 0.30 | <0.30 | <0.30 |
| Methylene Chloride | µg/L | 610 | 0.30 | <0.30 | <0.30 |
| trans- 1,2-Dichloroethylene | µg/L | 1.6 | 0.20 | <0.20 | <0.20 |
| Methyl tert-butyl ether | µg/L | 190 | 0.20 | <0.20 | <0.20 |
| 1,1-Dichloroethane | µg/L | 320 | 0.30 | <0.30 | <0.30 |
| Methyl Ethyl Ketone | µg/L | 470000 | 1.0 | <1.0 | <1.0 |
| cis- 1,2-Dichloroethylene | µg/L | 1.6 | 0.20 | <0.20 | <0.20 |
| Chloroform | µg/L | 2.4 | 0.20 | <0.20 | <0.20 |
| 1,2-Dichloroethane | µg/L | 1.6 | 0.20 | <0.20 | <0.20 |
| 1,1,1-Trichloroethane | µg/L | 640 | 0.30 | <0.30 | <0.30 |
| Carbon Tetrachloride | µg/L | 0.79 | 0.20 | <0.20 | <0.20 |
| Benzene | µg/L | 44 | 0.20 | <0.20 | <0.20 |
| 1,2-Dichloropropane | µg/L | 16 | 0.20 | <0.20 | <0.20 |
| Trichloroethylene | µg/L | 1.6 | 0.20 | <0.20 | <0.20 |
| Bromodichloromethane | µg/L | 67000 | 0.20 | <0.20 | <0.20 |
| Methyl Isobutyl Ketone | µg/L | 140000 | 1.0 | <1.0 | <1.0 |
| 1,1,2-Trichloroethane | µg/L | 4.7 | 0.20 | <0.20 | <0.20 |
| Toluene | µg/L | 14000 | 0.20 | <0.20 | <0.20 |
| Dibromochloromethane | µg/L | 65000 | 0.10 | <0.10 | <0.10 |
| Ethylene Dibromide | µg/L | 0.25 | 0.10 | <0.10 | <0.10 |
| Tetrachloroethylene | µg/L | 1.6 | 0.20 | <0.20 | <0.20 |
| 1,1,1,2-Tetrachloroethane | µg/L | 3.3 | 0.10 | <0.10 | <0.10 |
| Chlorobenzene | µg/L | 500 | 0.10 | <0.10 | <0.10 |
| Ethylbenzene | µg/L | 1800 | 0.10 | <0.10 | <0.10 |
| m & p-Xylene | µg/L | | 0.20 | <0.20 | <0.20 |

Certified By:



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CLIENT NAME: SNC LAVALIN INC
SAMPLING SITE: 10192 Hwy 50, Brampton, ON

ATTENTION TO: Robert Mitzakov
SAMPLED BY: Sara Akib

O. Reg. 153(511) - VOCs (Water)

DATE RECEIVED: 2019-06-26

DATE REPORTED: 2019-07-05

| Parameter | Unit | SAMPLE DESCRIPTION: | | Field Blank | Trip Blank |
|---------------------------|------------|---------------------|------|-------------|------------|
| | | G / S | RDL | 2019-06-24 | 2019-06-24 |
| Bromoform | µg/L | 380 | 0.10 | <0.10 | <0.10 |
| Styrene | µg/L | 1300 | 0.10 | <0.10 | <0.10 |
| 1,1,2,2-Tetrachloroethane | µg/L | 3.2 | 0.10 | <0.10 | <0.10 |
| o-Xylene | µg/L | | 0.10 | <0.10 | <0.10 |
| 1,3-Dichlorobenzene | µg/L | 7600 | 0.10 | <0.10 | <0.10 |
| 1,4-Dichlorobenzene | µg/L | 8 | 0.10 | <0.10 | <0.10 |
| 1,2-Dichlorobenzene | µg/L | 4600 | 0.10 | <0.10 | <0.10 |
| 1,3-Dichloropropene | µg/L | 5.2 | 0.30 | <0.30 | <0.30 |
| Xylene Mixture | µg/L | 3300 | 0.20 | <0.20 | <0.20 |
| n-Hexane | µg/L | 51 | 0.20 | <0.20 | <0.20 |
| Surrogate | Unit | Acceptable Limits | | | |
| Toluene-d8 | % Recovery | 50-140 | | 83 | 89 |
| 4-Bromofluorobenzene | % Recovery | 50-140 | | 74 | 76 |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 9: Generic Site Condition Standards for Use within 30 m of a Water Body in a Non-Potable Ground Water Condition - Ground Water - All Types of Property Uses
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.

306131-306348 Xylenes total is a calculated parameter. The calculated value is the sum of m&p-Xylene and 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:



Certificate of Analysis

AGAT WORK ORDER: 19T484919

PROJECT: 665125

5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
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CLIENT NAME: SNC LAVALIN INC

SAMPLING SITE: 10192 Hwy 50, Brampton, ON

ATTENTION TO: Robert Mitzakov

SAMPLED BY: Sara Akib

O. Reg. 153(511) - Metals & Inorganics (Water)

DATE RECEIVED: 2019-06-26

DATE REPORTED: 2019-07-05

| Parameter | Unit | SAMPLE DESCRIPTION: | | MW-03 | MW-02 | MW-22 | MW-35 | MW-30 | MW-70 |
|-------------------------|----------|---------------------|------|------------|------------|------------|------------|------------|------------|
| | | SAMPLE TYPE: | | Water | Water | Water | Water | Water | Water |
| | | DATE SAMPLED: | | 2019-06-25 | 2019-06-24 | 2019-06-25 | 2019-06-24 | 2019-06-24 | 2019-06-24 |
| | | G / S | RDL | 306131 | 306302 | 306303 | 306309 | 306340 | 306341 |
| Barium | µg/L | 23000 | 2.0 | 56.8 | 131 | 79.4 | 68.0 | 86.4 | 67.3 |
| Beryllium | µg/L | 53 | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Boron | µg/L | 36000 | 10.0 | 73.6 | 82.3 | 53.1 | 68.3 | 49.5 | 155 |
| Cadmium | µg/L | 2.1 | 0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Chromium | µg/L | 640 | 2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 |
| Cobalt | µg/L | 52 | 0.5 | 1.5 | <0.5 | 0.9 | 0.6 | 1.0 | <0.5 |
| Copper | µg/L | 69 | 1.0 | <1.0 | <1.0 | <1.0 | 2.5 | <1.0 | <1.0 |
| Lead | µg/L | 20 | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Molybdenum | µg/L | 7300 | 0.5 | 14.9 | 7.0 | 15.7 | 73.2 | 6.9 | 120 |
| Nickel | µg/L | 390 | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 |
| Silver | µg/L | 1.2 | 0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Thallium | µg/L | 400 | 0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| Uranium | µg/L | 330 | 0.5 | 1.2 | <0.5 | 6.7 | 3.8 | 3.2 | 2.5 |
| Vanadium | µg/L | 200 | 0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 |
| Zinc | µg/L | 890 | 5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 19.7 |
| Mercury | µg/L | | 0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 |
| Chromium VI | µg/L | 110 | 5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Cyanide | µg/L | 52 | 2 | <2 | <2 | <2 | <2 | <2 | <2 |
| Sodium | µg/L | 1800000 | 1000 | 83400 | 26200 | 25400 | 59300 | 29400 | 93400 |
| Chloride | µg/L | 1800000 | 500 | 149000 | <500 | 25200 | 10500 | 51200 | 23500 |
| Electrical Conductivity | uS/cm | NA | 2 | 1100 | 953 | 1230 | 1170 | 1040 | 975 |
| pH | pH Units | | NA | 7.71 | 7.82 | 7.88 | 8.00 | 7.84 | 7.98 |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 9: Generic Site Condition Standards for Use within 30 m of a Water Body in a Non-Potable Ground Water Condition - Ground Water - All Types of Property Uses

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.

306131-306341 Elevated RDLs indicate the degree of sample dilutions prior to analyses to keep analytes within the calibration range, reduce matrix interference and to avoid contaminating the instruments.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:



Quality Assurance

CLIENT NAME: SNC LAVALIN INC

AGAT WORK ORDER: 19T484919

PROJECT: 665125

ATTENTION TO: Robert Mitzakov

SAMPLING SITE: 10192 Hwy 50, Brampton, ON

SAMPLED BY: Sara Akib

Trace Organics Analysis

| RPT Date: Jul 05, 2019 | | | DUPLICATE | | | Method Blank | REFERENCE MATERIAL | | | METHOD BLANK SPIKE | | | MATRIX SPIKE | | |
|------------------------|-------|-----------|-----------|--------|-----|--------------|--------------------|-------------------|-------|--------------------|-------------------|-------|--------------|-------------------|-------|
| PARAMETER | Batch | Sample Id | Dup #1 | Dup #2 | RPD | | Measured Value | Acceptable Limits | | Recovery | Acceptable Limits | | Recovery | Acceptable Limits | |
| | | | | | | | | Lower | Upper | | Lower | Upper | | Lower | Upper |

O. Reg. 153(511) - VOCs (Water)

| | | | | | | | | | | | | | | | |
|-----------------------------|--------|--------|--------|--------|----|--------|------|-----|------|------|-----|------|------|-----|------|
| Dichlorodifluoromethane | 306345 | 306345 | < 0.20 | < 0.20 | NA | < 0.20 | 92% | 50% | 140% | 85% | 50% | 140% | 85% | 50% | 140% |
| Vinyl Chloride | 306345 | 306345 | < 0.17 | < 0.17 | NA | < 0.17 | 85% | 50% | 140% | 102% | 50% | 140% | 101% | 50% | 140% |
| Bromomethane | 306345 | 306345 | < 0.20 | < 0.20 | NA | < 0.20 | 93% | 50% | 140% | 95% | 50% | 140% | 102% | 50% | 140% |
| Trichlorofluoromethane | 306345 | 306345 | < 0.40 | < 0.40 | NA | < 0.40 | 112% | 50% | 140% | 110% | 50% | 140% | 85% | 50% | 140% |
| Acetone | 306345 | 306345 | < 1.0 | < 1.0 | NA | < 1.0 | 112% | 50% | 140% | 105% | 50% | 140% | 91% | 50% | 140% |
| 1,1-Dichloroethylene | 306345 | 306345 | < 0.30 | < 0.30 | NA | < 0.30 | 77% | 50% | 140% | 87% | 60% | 130% | 83% | 50% | 140% |
| Methylene Chloride | 306345 | 306345 | < 0.30 | < 0.30 | NA | < 0.30 | 102% | 50% | 140% | 85% | 60% | 130% | 100% | 50% | 140% |
| trans- 1,2-Dichloroethylene | 306345 | 306345 | < 0.20 | < 0.20 | NA | < 0.20 | 83% | 50% | 140% | 103% | 60% | 130% | 83% | 50% | 140% |
| Methyl tert-butyl ether | 306345 | 306345 | < 0.20 | < 0.20 | NA | < 0.20 | 104% | 50% | 140% | 108% | 60% | 130% | 78% | 50% | 140% |
| 1,1-Dichloroethane | 306345 | 306345 | < 0.30 | < 0.30 | NA | < 0.30 | 91% | 50% | 140% | 109% | 60% | 130% | 86% | 50% | 140% |
| Methyl Ethyl Ketone | 306345 | 306345 | < 1.0 | < 1.0 | NA | < 1.0 | 96% | 50% | 140% | 107% | 50% | 140% | 80% | 50% | 140% |
| cis- 1,2-Dichloroethylene | 306345 | 306345 | < 0.20 | < 0.20 | NA | < 0.20 | 90% | 50% | 140% | 105% | 60% | 130% | 78% | 50% | 140% |
| Chloroform | 306345 | 306345 | < 0.20 | < 0.20 | NA | < 0.20 | 89% | 50% | 140% | 100% | 60% | 130% | 80% | 50% | 140% |
| 1,2-Dichloroethane | 306345 | 306345 | < 0.20 | < 0.20 | NA | < 0.20 | 118% | 50% | 140% | 100% | 60% | 130% | 88% | 50% | 140% |
| 1,1,1-Trichloroethane | 306345 | 306345 | < 0.30 | < 0.30 | NA | < 0.30 | 77% | 50% | 140% | 91% | 60% | 130% | 82% | 50% | 140% |
| Carbon Tetrachloride | 306345 | 306345 | < 0.20 | < 0.20 | NA | < 0.20 | 74% | 50% | 140% | 77% | 60% | 130% | 90% | 50% | 140% |
| Benzene | 306345 | 306345 | < 0.20 | < 0.20 | NA | < 0.20 | 98% | 50% | 140% | 112% | 60% | 130% | 77% | 50% | 140% |
| 1,2-Dichloropropane | 306345 | 306345 | < 0.20 | < 0.20 | NA | < 0.20 | 107% | 50% | 140% | 117% | 60% | 130% | 94% | 50% | 140% |
| Trichloroethylene | 306345 | 306345 | < 0.20 | < 0.20 | NA | < 0.20 | 86% | 50% | 140% | 100% | 60% | 130% | 122% | 50% | 140% |
| Bromodichloromethane | 306345 | 306345 | < 0.20 | < 0.20 | NA | < 0.20 | 96% | 50% | 140% | 114% | 60% | 130% | 76% | 50% | 140% |
| Methyl Isobutyl Ketone | 306345 | 306345 | < 1.0 | < 1.0 | NA | < 1.0 | 122% | 50% | 140% | 103% | 50% | 140% | 120% | 50% | 140% |
| 1,1,2-Trichloroethane | 306345 | 306345 | < 0.20 | < 0.20 | NA | < 0.20 | 102% | 50% | 140% | 99% | 60% | 130% | 111% | 50% | 140% |
| Toluene | 306345 | 306345 | < 0.20 | < 0.20 | NA | < 0.20 | 87% | 50% | 140% | 83% | 60% | 130% | 95% | 50% | 140% |
| Dibromochloromethane | 306345 | 306345 | < 0.10 | < 0.10 | NA | < 0.10 | 84% | 50% | 140% | 86% | 60% | 130% | 77% | 50% | 140% |
| Ethylene Dibromide | 306345 | 306345 | < 0.10 | < 0.10 | NA | < 0.10 | 95% | 50% | 140% | 96% | 60% | 130% | 108% | 50% | 140% |
| Tetrachloroethylene | 306345 | 306345 | < 0.20 | < 0.20 | NA | < 0.20 | 82% | 50% | 140% | 82% | 60% | 130% | 88% | 50% | 140% |
| 1,1,1,2-Tetrachloroethane | 306345 | 306345 | < 0.10 | < 0.10 | NA | < 0.10 | 85% | 50% | 140% | 85% | 60% | 130% | 80% | 50% | 140% |
| Chlorobenzene | 306345 | 306345 | < 0.10 | < 0.10 | NA | < 0.10 | 90% | 50% | 140% | 86% | 60% | 130% | 96% | 50% | 140% |
| Ethylbenzene | 306345 | 306345 | < 0.10 | < 0.10 | NA | < 0.10 | 80% | 50% | 140% | 76% | 60% | 130% | 88% | 50% | 140% |
| m & p-Xylene | 306345 | 306345 | < 0.20 | < 0.20 | NA | < 0.20 | 85% | 50% | 140% | 82% | 60% | 130% | 81% | 50% | 140% |
| Bromoform | 306345 | 306345 | < 0.10 | < 0.10 | NA | < 0.10 | 81% | 50% | 140% | 81% | 60% | 130% | 86% | 50% | 140% |
| Styrene | 306345 | 306345 | < 0.10 | < 0.10 | NA | < 0.10 | 74% | 50% | 140% | 82% | 60% | 130% | 83% | 50% | 140% |
| 1,1,2,2-Tetrachloroethane | 306345 | 306345 | < 0.10 | < 0.10 | NA | < 0.10 | 102% | 50% | 140% | 95% | 60% | 130% | 82% | 50% | 140% |
| o-Xylene | 306345 | 306345 | < 0.10 | < 0.10 | NA | < 0.10 | 84% | 50% | 140% | 79% | 60% | 130% | 90% | 50% | 140% |
| 1,3-Dichlorobenzene | 306345 | 306345 | < 0.10 | < 0.10 | NA | < 0.10 | 84% | 50% | 140% | 82% | 60% | 130% | 91% | 50% | 140% |
| 1,4-Dichlorobenzene | 306345 | 306345 | < 0.10 | < 0.10 | NA | < 0.10 | 84% | 50% | 140% | 80% | 60% | 130% | 93% | 50% | 140% |
| 1,2-Dichlorobenzene | 306345 | 306345 | < 0.10 | < 0.10 | NA | < 0.10 | 89% | 50% | 140% | 85% | 60% | 130% | 98% | 50% | 140% |
| 1,3-Dichloropropene | 306345 | 306345 | < 0.30 | < 0.30 | NA | < 0.30 | 85% | 50% | 140% | 98% | 60% | 130% | 86% | 50% | 140% |
| n-Hexane | 306345 | 306345 | < 0.20 | < 0.20 | NA | < 0.20 | 89% | 50% | 140% | 85% | 60% | 130% | 83% | 50% | 140% |

Quality Assurance

 CLIENT NAME: SNC LAVALIN INC
 PROJECT: 665125
 SAMPLING SITE: 10192 Hwy 50, Brampton, ON

 AGAT WORK ORDER: 19T484919
 ATTENTION TO: Robert Mitzakov
 SAMPLED BY: Sara Akib

Trace Organics Analysis (Continued)

| RPT Date: Jul 05, 2019 | | | DUPLICATE | | | Method Blank | REFERENCE MATERIAL | | | METHOD BLANK SPIKE | | MATRIX SPIKE | | | |
|------------------------|-------|-----------|-----------|--------|-----|--------------|--------------------|-------------------|-------|--------------------|-------------------|--------------|----------|-------------------|-------|
| PARAMETER | Batch | Sample Id | Dup #1 | Dup #2 | RPD | | 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) (Water)

| | | | | | | | | | | | | | | | |
|-----------------|--------|----|-------|-------|----|-------|------|-----|------|------|-----|------|------|-----|------|
| F1 (C6-C10) | 304227 | | < 25 | < 25 | NA | < 25 | 93% | 60% | 140% | 95% | 60% | 140% | 92% | 60% | 140% |
| F2 (C10 to C16) | | TW | < 100 | < 100 | NA | < 100 | 112% | 60% | 140% | 81% | 60% | 140% | 80% | 60% | 140% |
| F3 (C16 to C34) | | TW | < 100 | < 100 | NA | < 100 | 110% | 60% | 140% | 118% | 60% | 140% | 118% | 60% | 140% |
| F4 (C34 to C50) | | TW | < 100 | < 100 | NA | < 100 | 108% | 60% | 140% | 87% | 60% | 140% | 88% | 60% | 140% |

O. Reg. 153(511) - PAHs (Water)

| | | | | | | | | | | | | | | | |
|------------------------|--|----|--------|--------|----|--------|------|-----|------|------|-----|------|------|-----|------|
| Naphthalene | | TW | < 0.20 | < 0.20 | NA | < 0.20 | 113% | 50% | 140% | 86% | 50% | 140% | 87% | 50% | 140% |
| Acenaphthylene | | TW | < 0.20 | < 0.20 | NA | < 0.20 | 115% | 50% | 140% | 87% | 50% | 140% | 87% | 50% | 140% |
| Acenaphthene | | TW | < 0.20 | < 0.20 | NA | < 0.20 | 113% | 50% | 140% | 88% | 50% | 140% | 88% | 50% | 140% |
| Fluorene | | TW | < 0.20 | < 0.20 | NA | < 0.20 | 116% | 50% | 140% | 90% | 50% | 140% | 92% | 50% | 140% |
| Phenanthrene | | TW | < 0.10 | < 0.10 | NA | < 0.10 | 112% | 50% | 140% | 87% | 50% | 140% | 89% | 50% | 140% |
| Anthracene | | TW | < 0.10 | < 0.10 | NA | < 0.10 | 108% | 50% | 140% | 87% | 50% | 140% | 87% | 50% | 140% |
| Fluoranthene | | TW | < 0.20 | < 0.20 | NA | < 0.20 | 113% | 50% | 140% | 96% | 50% | 140% | 97% | 50% | 140% |
| Pyrene | | TW | < 0.20 | < 0.20 | NA | < 0.20 | 110% | 50% | 140% | 96% | 50% | 140% | 97% | 50% | 140% |
| Benz(a)anthracene | | TW | < 0.20 | < 0.20 | NA | < 0.20 | 91% | 50% | 140% | 83% | 50% | 140% | 84% | 50% | 140% |
| Chrysene | | TW | < 0.10 | < 0.10 | NA | < 0.10 | 92% | 50% | 140% | 80% | 50% | 140% | 81% | 50% | 140% |
| Benzo(b)fluoranthene | | TW | < 0.10 | < 0.10 | NA | < 0.10 | 111% | 50% | 140% | 102% | 50% | 140% | 103% | 50% | 140% |
| Benzo(k)fluoranthene | | TW | < 0.10 | < 0.10 | NA | < 0.10 | 116% | 50% | 140% | 102% | 50% | 140% | 101% | 50% | 140% |
| Benzo(a)pyrene | | TW | < 0.01 | < 0.01 | NA | < 0.01 | 116% | 50% | 140% | 97% | 50% | 140% | 105% | 50% | 140% |
| Indeno(1,2,3-cd)pyrene | | TW | < 0.20 | < 0.20 | NA | < 0.20 | 101% | 50% | 140% | 89% | 50% | 140% | 85% | 50% | 140% |
| Dibenz(a,h)anthracene | | TW | < 0.20 | < 0.20 | NA | < 0.20 | 101% | 50% | 140% | 90% | 50% | 140% | 89% | 50% | 140% |
| Benzo(g,h,i)perylene | | TW | < 0.20 | < 0.20 | NA | < 0.20 | 102% | 50% | 140% | 94% | 50% | 140% | 85% | 50% | 140% |

Comments: Tap water analysis has been performed as QC sample testing for duplicate and matrix spike due to insufficient sample volume. 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).

Certified By:



Quality Assurance

CLIENT NAME: SNC LAVALIN INC
 PROJECT: 665125
 SAMPLING SITE: 10192 Hwy 50, Brampton, ON

AGAT WORK ORDER: 19T484919
 ATTENTION TO: Robert Mitzakov
 SAMPLED BY: Sara Akib

| Water Analysis | | | | | | | | | | | | | | | |
|------------------------|-------|-----------|-----------|--------|-----|----------------|--------------|--------------------|-------|----------|--------------------|-------|--------------|-------------------|-------|
| RPT Date: Jul 05, 2019 | | | DUPLICATE | | | | Method Blank | REFERENCE MATERIAL | | | METHOD BLANK SPIKE | | MATRIX SPIKE | | |
| PARAMETER | Batch | Sample Id | Dup #1 | Dup #2 | RPD | Measured Value | | Acceptable Limits | | Recovery | Acceptable Limits | | Recovery | Acceptable Limits | |
| | | | | | | | | Lower | Upper | | Lower | Upper | | Lower | Upper |

O. Reg. 153(511) - Metals & Inorganics (Water)

| | | | | | | | | | | | | | | | |
|-------------------------|--------|--------|--------|--------|------|--------|------|-----|------|------|-----|------|------|-----|------|
| Barium | 306131 | 306131 | 56.8 | 54.9 | 3.4% | < 2.0 | 101% | 70% | 130% | 100% | 80% | 120% | 100% | 70% | 130% |
| Beryllium | 306131 | 306131 | < 0.5 | <0.5 | NA | < 0.5 | 104% | 70% | 130% | 104% | 80% | 120% | 104% | 70% | 130% |
| Boron | 306131 | 306131 | 73.6 | 74.5 | 1.2% | < 10.0 | 101% | 70% | 130% | 109% | 80% | 120% | 105% | 70% | 130% |
| Cadmium | 306131 | 306131 | < 0.2 | <0.2 | NA | < 0.2 | 100% | 70% | 130% | 100% | 80% | 120% | 106% | 70% | 130% |
| Chromium | 306131 | 306131 | < 2.0 | <2.0 | NA | < 2.0 | 101% | 70% | 130% | 105% | 80% | 120% | 104% | 70% | 130% |
| Cobalt | 306131 | 306131 | 1.5 | 1.5 | NA | < 0.5 | 103% | 70% | 130% | 105% | 80% | 120% | 101% | 70% | 130% |
| Copper | 306131 | 306131 | < 1.0 | <1.0 | NA | < 1.0 | 101% | 70% | 130% | 103% | 80% | 120% | 96% | 70% | 130% |
| Lead | 306131 | 306131 | < 0.5 | <0.5 | NA | < 0.5 | 98% | 70% | 130% | 102% | 80% | 120% | 98% | 70% | 130% |
| Molybdenum | 306131 | 306131 | 14.9 | 15.0 | 0.7% | < 0.5 | 100% | 70% | 130% | 103% | 80% | 120% | 111% | 70% | 130% |
| Nickel | 306131 | 306131 | < 1.0 | <1.0 | NA | < 1.0 | 102% | 70% | 130% | 103% | 80% | 120% | 97% | 70% | 130% |
| Silver | 306131 | 306131 | < 0.2 | <0.2 | NA | < 0.2 | 101% | 70% | 130% | 107% | 80% | 120% | 94% | 70% | 130% |
| Thallium | 306131 | 306131 | < 0.3 | <0.3 | NA | < 0.3 | 101% | 70% | 130% | 107% | 80% | 120% | 102% | 70% | 130% |
| Uranium | 306131 | 306131 | 1.2 | 1.2 | NA | < 0.5 | 100% | 70% | 130% | 105% | 80% | 120% | 104% | 70% | 130% |
| Vanadium | 306131 | 306131 | < 0.4 | <0.4 | NA | < 0.4 | 95% | 70% | 130% | 100% | 80% | 120% | 100% | 70% | 130% |
| Zinc | 306131 | 306131 | < 5.0 | <5.0 | NA | < 5.0 | 101% | 70% | 130% | 96% | 80% | 120% | 96% | 70% | 130% |
| Mercury | 306131 | 306131 | <0.02 | <0.02 | NA | < 0.02 | 104% | 70% | 130% | 100% | 80% | 120% | 97% | 70% | 130% |
| Chromium VI | 303908 | | <5 | <5 | NA | < 5 | 101% | 70% | 130% | 101% | 80% | 120% | 101% | 70% | 130% |
| Cyanide | 301574 | | <2 | <2 | NA | < 2 | 94% | 70% | 130% | 101% | 80% | 120% | 96% | 70% | 130% |
| Sodium | 301575 | | 42100 | 41600 | 1.2% | < 500 | 97% | 70% | 130% | 97% | 80% | 120% | 98% | 70% | 130% |
| Chloride | 306131 | 306131 | 149000 | 144000 | 3.4% | < 100 | 107% | 70% | 130% | 93% | 70% | 130% | 106% | 70% | 130% |
| Electrical Conductivity | 306131 | 306131 | 1100 | 1100 | 0.0% | < 2 | 96% | 90% | 110% | | | | | | |
| pH | 306131 | 306131 | 7.71 | 7.66 | 0.7% | NA | 101% | 90% | 110% | | | | | | |

Comments: NA signifies Not Applicable.

Duplicate Qualifier: For duplicates as the measured result approaches the Reporting Limit (RL), the uncertainty associated with the value increases dramatically, thus duplicate acceptance limits apply only where the average of the two duplicates is greater than five times the RL.

Certified By: _____



Method Summary

CLIENT NAME: SNC LAVALIN INC

AGAT WORK ORDER: 19T484919

PROJECT: 665125

ATTENTION TO: Robert Mitzakov

SAMPLING SITE: 10192 Hwy 50, Brampton, ON

SAMPLED BY: Sara Akib

| PARAMETER | AGAT S.O.P | LITERATURE REFERENCE | ANALYTICAL TECHNIQUE |
|-----------------------------------|--------------|--------------------------|----------------------|
| Trace Organics Analysis | | | |
| Naphthalene | ORG-91-5105 | EPA SW-846 3510 & 8270D | GC/MS |
| Acenaphthylene | ORG-91-5105 | EPA SW-846 3510 & 8270D | GC/MS |
| Acenaphthene | ORG-91-5105 | EPA SW-846 3510 & 8270D | GC/MS |
| Fluorene | ORG-91-5105 | EPA SW-846 3510 & 8270D | GC/MS |
| Phenanthrene | ORG-91-5105 | EPA SW-846 3510 & 8270D | GC/MS |
| Anthracene | ORG-91-5105 | EPA SW-846 3510 & 8270D | GC/MS |
| Fluoranthene | ORG-91-5105 | EPA SW-846 3510 & 8270D | GC/MS |
| Pyrene | ORG-91-5105 | EPA SW-846 3510 & 8270D | GC/MS |
| Benz(a)anthracene | ORG-91-5105 | EPA SW-846 3510 & 8270D | GC/MS |
| Chrysene | ORG-91-5105 | EPA SW-846 3510 & 8270D | GC/MS |
| Benzo(b)fluoranthene | ORG-91-5105 | EPA SW-846 3510 & 8270D | GC/MS |
| Benzo(k)fluoranthene | ORG-91-5105 | EPA SW-846 3510 & 8270D | GC/MS |
| Benzo(a)pyrene | ORG-91-5105 | EPA SW-846 3510 & 8270D | GC/MS |
| Indeno(1,2,3-cd)pyrene | ORG-91-5105 | EPA SW-846 3510 & 8270D | GC/MS |
| Dibenz(a,h)anthracene | ORG-91-5105 | EPA SW-846 3510 & 8270D | GC/MS |
| Benzo(g,h,i)perylene | ORG-91-5105 | EPA SW-846 3510 & 8270D | GC/MS |
| 2-and 1-methyl Naphthalene | ORG-91-5105 | EPA SW-846 3510 & 8270D | GC/MS |
| Chrysene-d12 | ORG-91-5105 | EPA SW-846 3510 & 8270D | GC/MS |
| F1 (C6 - C10) | VOL-91- 5010 | MOE PHC E3421 | (P&T)GC/FID |
| F1 (C6 to C10) minus BTEX | VOL-91-5010 | MOE PHC E3421 | (P&T)GC/FID |
| F2 (C10 to C16) | VOL-91-5010 | MOE PHC E3421 | GC / FID |
| F3 (C16 to C34) | VOL-91-5010 | MOE PHC E3421 | GC / FID |
| F4 (C34 to C50) | VOL-91-5010 | MOE PHC E3421 | GC / FID |
| Gravimetric Heavy Hydrocarbons | VOL-91-5010 | MOE PHC E3421 | BALANCE |
| Terphenyl | VOL-91-5010 | | GC/FID |
| F1 (C6-C10) | VOL-91- 5010 | MOE PHC-E3421 | P&T GC/FID |
| F1 (C6 to C10) minus BTEX | VOL-91-5010 | MOE PHC E3421 | P&T GC/FID |
| F2 (C10 to C16) | VOL-91-5010 | MOE PHC E3421 | GC/FID |
| F2 (C10 to C16) minus Naphthalene | VOL-91-5010 | MOE PHC E3421 | GC/FID |
| F3 (C16 to C34) | VOL-91-5010 | MOE PHC E3421 | GC/FID |
| F3 (C16 to C34) minus PAHs | VOL-91-5010 | MOE PHC E3421 | GC/FID |
| F4 (C34 to C50) | VOL-91-5010 | MOE PHC E3421 | GC/FID |
| F1 (C6-C10) | VOL-91- 5010 | MOE E3421 | (P&T)GC/FID |
| F1 (C6 to C10) minus BTEX | VOL-91-5010 | MOE PHC-E3421 | P&T GC/FID |
| Dichlorodifluoromethane | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Vinyl Chloride | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Bromomethane | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Trichlorofluoromethane | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Acetone | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| 1,1-Dichloroethylene | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Methylene Chloride | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| trans- 1,2-Dichloroethylene | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Methyl tert-butyl ether | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| 1,1-Dichloroethane | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Methyl Ethyl Ketone | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| cis- 1,2-Dichloroethylene | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Chloroform | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| 1,2-Dichloroethane | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| 1,1,1-Trichloroethane | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |

Method Summary

CLIENT NAME: SNC LAVALIN INC

AGAT WORK ORDER: 19T484919

PROJECT: 665125

ATTENTION TO: Robert Mitzakov

SAMPLING SITE: 10192 Hwy 50, Brampton, ON

SAMPLED BY: Sara Akib

| PARAMETER | AGAT S.O.P | LITERATURE REFERENCE | ANALYTICAL TECHNIQUE |
|---------------------------|-------------|--------------------------|----------------------|
| Carbon Tetrachloride | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Benzene | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| 1,2-Dichloropropane | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Trichloroethylene | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Bromodichloromethane | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Methyl Isobutyl Ketone | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| 1,1,2-Trichloroethane | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Toluene | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Dibromochloromethane | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Ethylene Dibromide | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Tetrachloroethylene | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| 1,1,1,2-Tetrachloroethane | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Chlorobenzene | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Ethylbenzene | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| m & p-Xylene | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Bromoform | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Styrene | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| 1,1,1,2-Tetrachloroethane | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| o-Xylene | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| 1,3-Dichlorobenzene | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| 1,4-Dichlorobenzene | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| 1,2-Dichlorobenzene | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| 1,3-Dichloropropene | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Xylene Mixture | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| n-Hexane | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Toluene-d8 | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| 4-Bromofluorobenzene | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |



Method Summary

CLIENT NAME: SNC LAVALIN INC

AGAT WORK ORDER: 19T484919

PROJECT: 665125

ATTENTION TO: Robert Mitzakov

SAMPLING SITE: 10192 Hwy 50, Brampton, ON

SAMPLED BY: Sara Akib

| PARAMETER | AGAT S.O.P | LITERATURE REFERENCE | ANALYTICAL TECHNIQUE |
|-------------------------|--------------|-------------------------------------|-------------------------|
| Water Analysis | | | |
| Barium | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Beryllium | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Boron | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Cadmium | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Chromium | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Cobalt | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Copper | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Lead | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Molybdenum | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Nickel | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Silver | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Thallium | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Uranium | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Vanadium | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Zinc | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Mercury | MET-93-6100 | EPA SW 846 7470 & 245.1 | CVAAS |
| Chromium VI | INOR-93-6034 | SM 3500-Cr B | SPECTROPHOTOMETER |
| Cyanide | INOR-93-6052 | MOE METHOD CN- 3015 & SM 4500 CN- I | TECHNICON AUTO ANALYZER |
| Sodium | MET-93-6105 | EPA SW-846 6010C & 200.7 | ICP/OES |
| Chloride | INOR-93-6004 | SM 4110 B | ION CHROMATOGRAPH |
| Electrical Conductivity | INOR-93-6000 | SM 2510 B | PC TITRATE |
| pH | INOR-93-6000 | SM 4500-H+ B | PC TITRATE |



AGAT

Laboratories

2 coolers

1 of 2
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: SNC Lavalin
Contact: Robert Mitzakov
Address: 235 Leslie Street
Toronto, ON
Phone: 416-635-5882 Fax: 55802
Reports to be sent to:
1. Email: Robert.Mitzakov@snc-lavalin.com
2. Email:

Regulatory Requirements: No Regulatory Requirement

(Please check all applicable boxes)

- Regulation 153/04
 - Table Indicate One
 - Ind/Com
 - Res/Park
 - Agriculture
 - Soil Texture (Check One)
 - Coarse
 - Fine
 - Sewer Use
 - Sanitary
 - Storm
 - Regulation 558
 - CCME
 - Prov. Water Quality Objectives (PWQO)
 - Other
- Region Indicate One
 MISA Indicate One

Project Information:

Project: 665125
Site Location: 10192 Hwy 50, Brampton, ON
Sampled By: Sara Akid
AGAT Quote #: _____ PO: _____
Please note: If quotation number is not provided, client will be billed full price for analysis.

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

Field Filtered - Metals, Hg, CrVI

O. Reg 153

- Metals and Inorganics
 - All Metals 153 Metals (excl. Hydrides)
 - Hydride Metals 153 Metals (Incl. Hydrides)
- ORPs: B-HWS Cl CN Cr6+ EC FOC Hg pH SAR
- Full Metals Scan
- Regulation/Custom Metals
- Nutrients: TP NH4 TKN NO3 NO2 NO3+NO2
- Volatiles: VOC BTEX THM
- PHCs F1 - F4
- ABNS
- PAHs
- PCBs: Total Aroclors
- Organochlorine Pesticides
- TCLP: M&I VOCs ABNS B(a)P PCBs
- Sewer Use
- Potentially Hazardous or High Concentration (Y/N)

Laboratory Use Only
Work Order #: 19T484919
Cooler Quantity: _____
Arrival Temperatures: SEE ATTACHED
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

Invoice Information:

Bill To Same: Yes No

Company: SNC Lavalin
Contact: _____
Address: _____
Email: Payable@snc-lavalin.com

| Sample Identification | Date Sampled | Time Sampled | # of Containers | Sample Matrix | Comments/ Special Instructions | Y / N | Metals and Inorganics | ORPs | Full Metals Scan | Regulation/Custom Metals | Nutrients | Volatiles | PHCs F1 - F4 | ABNS | PAHs | PCBs | Organochlorine Pesticides | TCLP | Sewer Use | Potentially Hazardous or High Concentration (Y/N) |
|-----------------------|-----------------|---------------|-----------------|---------------|-----------------------------------|-------|-----------------------|------|------------------|--------------------------|-----------|-----------|--------------|------|------|------|---------------------------|------|-----------|---|
| <u>Field blank</u> | <u>24/06/19</u> | <u>5:00pm</u> | <u>4</u> | | | | | | | | | | | | | | | | | |
| <u>trip blank</u> | <u>25</u> | | <u>3</u> | | | | | | | | | | | | | | | | | |

| | | | | | |
|---|-----------------------|--------------------|---|-------------------------|-------------------|
| Samples Relinquished By (Print Name and Sign): <u>Sara Akid</u> | Date: <u>25/06/19</u> | Time: <u>10:50</u> | Samples Received By (Print Name and Sign): <u>MANO'S JOHN</u> | Date: <u>JUNE 26/19</u> | Time: <u>8:45</u> |
| 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 _____ of _____
No: **T 090356**



Sample Temperature Log

Client: SNC LAVALIN

COC# or Work Order #: _____

of Coolers: 3

of Submissions: _____

Arrival Temperatures - Branch/Driver

Arrival Temperatures - Laboratory

Cooler #1: 7.0 / 5.3 / 7.1

Cooler #1: _____ / _____ / _____

Cooler #2: 6.2 / 6.7 / 6.3

Cooler #2: _____ / _____ / _____

Cooler #3: 5.3 / 6.1 / 5.9

Cooler #3: _____ / _____ / _____

Cooler #4: _____ / _____ / _____

Cooler #4: _____ / _____ / _____

Cooler #5: _____ / _____ / _____

Cooler #5: _____ / _____ / _____

Cooler #6: _____ / _____ / _____

Cooler #6: _____ / _____ / _____

Cooler #7: _____ / _____ / _____

Cooler #7: _____ / _____ / _____

Cooler #8: _____ / _____ / _____

Cooler #8: _____ / _____ / _____

Cooler #9: _____ / _____ / _____

Cooler #9: _____ / _____ / _____

Cooler #10: _____ / _____ / _____

Cooler #10: _____ / _____ / _____

IR Gun ID: _____

IR Gun ID: _____

Taken By: MANOJ JOHN

Taken By: _____

Date (yyyy/mm/dd): 2019/06/26 Time: 8: 45 AM / PM

Date (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)



CLIENT NAME: SNC LAVALIN INC
235 LESMILL ROAD
TORONTO, ON M3B 2V1
(416) 679-6000

ATTENTION TO: Robert Mitzakov

PROJECT: 665125

AGAT WORK ORDER: 19T485836

TRACE ORGANICS REVIEWED BY: Oksana Gushyla, Trace Organics Lab Supervisor

WATER ANALYSIS REVIEWED BY: Nivine Basily, Inorganics Report Writer

DATE REPORTED: Jul 05, 2019

PAGES (INCLUDING COVER): 12

VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (905) 712-5100

*NOTES

All samples will be disposed of within 30 days following analysis. Please contact the lab if you require additional sample storage time.



Certificate of Analysis

AGAT WORK ORDER: 19T485836

PROJECT: 665125

5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
TEL (905)712-5100
FAX (905)712-5122
<http://www.agatlabs.com>

CLIENT NAME: SNC LAVALIN INC
SAMPLING SITE: 10192 Hwy 50, Brampton, ON

ATTENTION TO: Robert Mitzakov
SAMPLED BY: Sara Akib

O. Reg. 153(511) - PAHs (Water)

DATE RECEIVED: 2019-06-27

DATE REPORTED: 2019-07-05

| | | SAMPLE DESCRIPTION: | | MW-33 | |
|----------------------------|------|---------------------|------|------------|--|
| | | SAMPLE TYPE: | | Water | |
| | | DATE SAMPLED: | | 2019-06-27 | |
| Parameter | Unit | G / S | RDL | 311532 | |
| Naphthalene | µg/L | 1400 | 0.20 | <0.20 | |
| Acenaphthylene | µg/L | 1.4 | 0.20 | <0.20 | |
| Acenaphthene | µg/L | 600 | 0.20 | <0.20 | |
| Fluorene | µg/L | 290 | 0.20 | <0.20 | |
| Phenanthrene | µg/L | 380 | 0.10 | <0.10 | |
| Anthracene | µg/L | 1 | 0.10 | <0.10 | |
| Fluoranthene | µg/L | 73 | 0.20 | <0.20 | |
| Pyrene | µg/L | 5.7 | 0.20 | <0.20 | |
| Benz(a)anthracene | µg/L | 1.8 | 0.20 | <0.20 | |
| Chrysene | µg/L | 0.7 | 0.10 | <0.10 | |
| Benzo(b)fluoranthene | µg/L | 0.75 | 0.10 | <0.10 | |
| Benzo(k)fluoranthene | µg/L | 0.4 | 0.10 | <0.10 | |
| Benzo(a)pyrene | µg/L | 0.81 | 0.01 | <0.01 | |
| Indeno(1,2,3-cd)pyrene | µg/L | 0.2 | 0.20 | <0.20 | |
| Dibenz(a,h)anthracene | µg/L | 0.4 | 0.20 | <0.20 | |
| Benzo(g,h,i)perylene | µg/L | 0.2 | 0.20 | <0.20 | |
| 2-and 1-methyl Naphthalene | µg/L | 1500 | 0.20 | <0.20 | |
| Surrogate | Unit | Acceptable Limits | | | |
| Chrysene-d12 | % | 50-140 | | 69 | |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 9: Generic Site Condition Standards for Use within 30 m of a Water Body in a Non-Potable Ground Water Condition - Ground Water - All Types of Property Uses
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.

311532 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:



Certificate of Analysis

AGAT WORK ORDER: 19T485836
PROJECT: 665125

5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
TEL (905)712-5100
FAX (905)712-5122
<http://www.agatlabs.com>

CLIENT NAME: SNC LAVALIN INC
SAMPLING SITE: 10192 Hwy 50, Brampton, ON

ATTENTION TO: Robert Mitzakov
SAMPLED BY: Sara Akib

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

DATE RECEIVED: 2019-06-27

DATE REPORTED: 2019-07-05

| SAMPLE DESCRIPTION: | | MW-33 | | |
|-----------------------------------|------|-------------------|-----|--------|
| SAMPLE TYPE: | | Water | | |
| DATE SAMPLED: | | 2019-06-27 | | |
| Parameter | Unit | G / S | RDL | 311532 |
| F1 (C6-C10) | µg/L | | 25 | <25 |
| F1 (C6 to C10) minus BTEX | µg/L | 420 | 25 | <25 |
| F2 (C10 to C16) | µg/L | 150 | 100 | <100 |
| F2 (C10 to C16) minus Naphthalene | µg/L | | 100 | <100 |
| F3 (C16 to C34) | µg/L | 500 | 100 | <100 |
| F3 (C16 to C34) minus PAHs | µg/L | | 100 | <100 |
| F4 (C34 to C50) | µg/L | 500 | 100 | <100 |
| Gravimetric Heavy Hydrocarbons | µg/L | 500 | 500 | NA |
| Surrogate | Unit | Acceptable Limits | | |
| Terphenyl | % | 60-140 | | 95 |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 9: Generic Site Condition Standards for Use within 30 m of a Water Body in a Non-Potable Ground Water Condition - Ground Water - All Types of Property Uses
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.

311532
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 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:



Certificate of Analysis

AGAT WORK ORDER: 19T485836

PROJECT: 665125

5835 COOPERS AVENUE
 MISSISSAUGA, ONTARIO
 CANADA L4Z 1Y2
 TEL (905)712-5100
 FAX (905)712-5122
<http://www.agatlabs.com>

CLIENT NAME: SNC LAVALIN INC
 SAMPLING SITE: 10192 Hwy 50, Brampton, ON

ATTENTION TO: Robert Mitzakov
 SAMPLED BY: Sara Akib

O. Reg. 153(511) - VOCs (Water)

DATE RECEIVED: 2019-06-27

DATE REPORTED: 2019-07-05

| Parameter | Unit | SAMPLE DESCRIPTION: MW-33 | | |
|-----------------------------|------|---------------------------|------|--------|
| | | G / S | RDL | 311532 |
| Dichlorodifluoromethane | µg/L | 3500 | 0.20 | <0.20 |
| Vinyl Chloride | µg/L | 0.5 | 0.17 | <0.17 |
| Bromomethane | µg/L | 5.6 | 0.20 | <0.20 |
| Trichlorofluoromethane | µg/L | 2000 | 0.40 | <0.40 |
| Acetone | µg/L | 100000 | 1.0 | <1.0 |
| 1,1-Dichloroethylene | µg/L | 1.6 | 0.30 | <0.30 |
| Methylene Chloride | µg/L | 610 | 0.30 | <0.30 |
| trans- 1,2-Dichloroethylene | µg/L | 1.6 | 0.20 | <0.20 |
| Methyl tert-butyl ether | µg/L | 190 | 0.20 | <0.20 |
| 1,1-Dichloroethane | µg/L | 320 | 0.30 | <0.30 |
| Methyl Ethyl Ketone | µg/L | 470000 | 1.0 | <1.0 |
| cis- 1,2-Dichloroethylene | µg/L | 1.6 | 0.20 | <0.20 |
| Chloroform | µg/L | 2.4 | 0.20 | <0.20 |
| 1,2-Dichloroethane | µg/L | 1.6 | 0.20 | <0.20 |
| 1,1,1-Trichloroethane | µg/L | 640 | 0.30 | <0.30 |
| Carbon Tetrachloride | µg/L | 0.79 | 0.20 | <0.20 |
| Benzene | µg/L | 44 | 0.20 | <0.20 |
| 1,2-Dichloropropane | µg/L | 16 | 0.20 | <0.20 |
| Trichloroethylene | µg/L | 1.6 | 0.20 | <0.20 |
| Bromodichloromethane | µg/L | 67000 | 0.20 | <0.20 |
| Methyl Isobutyl Ketone | µg/L | 140000 | 1.0 | <1.0 |
| 1,1,2-Trichloroethane | µg/L | 4.7 | 0.20 | <0.20 |
| Toluene | µg/L | 14000 | 0.20 | <0.20 |
| Dibromochloromethane | µg/L | 65000 | 0.10 | <0.10 |
| Ethylene Dibromide | µg/L | 0.25 | 0.10 | <0.10 |
| Tetrachloroethylene | µg/L | 1.6 | 0.20 | <0.20 |
| 1,1,1,2-Tetrachloroethane | µg/L | 3.3 | 0.10 | <0.10 |
| Chlorobenzene | µg/L | 500 | 0.10 | <0.10 |
| Ethylbenzene | µg/L | 1800 | 0.10 | <0.10 |
| m & p-Xylene | µg/L | | 0.20 | <0.20 |

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 19T485836

PROJECT: 665125

5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
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TEL (905)712-5100
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CLIENT NAME: SNC LAVALIN INC
SAMPLING SITE: 10192 Hwy 50, Brampton, ON

ATTENTION TO: Robert Mitzakov
SAMPLED BY: Sara Akib

O. Reg. 153(511) - VOCs (Water)

DATE RECEIVED: 2019-06-27

DATE REPORTED: 2019-07-05

| SAMPLE DESCRIPTION: | | MW-33 | | |
|---------------------------|------------|-------------------|------|--------|
| SAMPLE TYPE: | | Water | | |
| DATE SAMPLED: | | 2019-06-27 | | |
| Parameter | Unit | G / S | RDL | 311532 |
| Bromoform | µg/L | 380 | 0.10 | <0.10 |
| Styrene | µg/L | 1300 | 0.10 | <0.10 |
| 1,1,2,2-Tetrachloroethane | µg/L | 3.2 | 0.10 | <0.10 |
| o-Xylene | µg/L | | 0.10 | <0.10 |
| 1,3-Dichlorobenzene | µg/L | 7600 | 0.10 | <0.10 |
| 1,4-Dichlorobenzene | µg/L | 8 | 0.10 | <0.10 |
| 1,2-Dichlorobenzene | µg/L | 4600 | 0.10 | <0.10 |
| 1,3-Dichloropropene | µg/L | 5.2 | 0.30 | <0.30 |
| Xylene Mixture | µg/L | 3300 | 0.20 | <0.20 |
| n-Hexane | µg/L | 51 | 0.20 | <0.20 |
| Surrogate | Unit | Acceptable Limits | | |
| Toluene-d8 | % Recovery | 50-140 | | 80 |
| 4-Bromofluorobenzene | % Recovery | 50-140 | | 72 |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 9: Generic Site Condition Standards for Use within 30 m of a Water Body in a Non-Potable Ground Water Condition - Ground Water - All Types of Property Uses
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.

311532 Xylenes total is a calculated parameter. The calculated value is the sum of m&p-Xylene and 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:



Certificate of Analysis

AGAT WORK ORDER: 19T485836

PROJECT: 665125

5835 COOPERS AVENUE
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CLIENT NAME: SNC LAVALIN INC
SAMPLING SITE: 10192 Hwy 50, Brampton, ON

ATTENTION TO: Robert Mitzakov
SAMPLED BY: Sara Akib

O. Reg. 153(511) - Metals & Inorganics (Water)

DATE RECEIVED: 2019-06-27

DATE REPORTED: 2019-07-05

| Parameter | Unit | SAMPLE DESCRIPTION: | | MW-33 | MW-51A |
|-------------------------|----------|---------------------|------|------------|------------|
| | | SAMPLE TYPE: | | Water | Water |
| | | DATE SAMPLED: | | 2019-06-27 | 2019-06-27 |
| | | G / S | RDL | 311532 | 311538 |
| Barium | µg/L | 23000 | 2.0 | 123 | 92.6 |
| Beryllium | µg/L | 53 | 0.5 | <0.5 | <0.5 |
| Boron | µg/L | 36000 | 10.0 | 73.5 | 137 |
| Cadmium | µg/L | 2.1 | 0.2 | <0.2 | <0.2 |
| Chromium | µg/L | 640 | 2.0 | <2.0 | <2.0 |
| Cobalt | µg/L | 52 | 0.5 | 0.8 | 0.5 |
| Copper | µg/L | 69 | 1.0 | 1.0 | 1.6 |
| Lead | µg/L | 20 | 0.5 | <0.5 | <0.5 |
| Molybdenum | µg/L | 7300 | 0.5 | 18.3 | 43.7 |
| Nickel | µg/L | 390 | 1.0 | <1.0 | <1.0 |
| Silver | µg/L | 1.2 | 0.2 | <0.2 | <0.2 |
| Thallium | µg/L | 400 | 0.3 | <0.3 | <0.3 |
| Uranium | µg/L | 330 | 0.5 | 7.8 | 5.4 |
| Vanadium | µg/L | 200 | 0.4 | 0.9 | 1.0 |
| Zinc | µg/L | 890 | 5.0 | 12.0 | 10.8 |
| Mercury | µg/L | | 0.02 | <0.02 | <0.02 |
| Chromium VI | µg/L | 110 | 5 | <5 | <5 |
| Cyanide | µg/L | 52 | 2 | <2 | 5 |
| Sodium | µg/L | 1800000 | 1000 | 28600 | 43600 |
| Chloride | µg/L | 1800000 | 500 | 49500 | 72400 |
| Electrical Conductivity | uS/cm | NA | 2 | 1190 | 1160 |
| pH | pH Units | | NA | 7.86 | 7.85 |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 9: Generic Site Condition Standards for Use within 30 m of a Water Body in a Non-Potable Ground Water Condition - Ground Water - All Types of Property Uses

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.

311532-311538 Elevated RDL indicates the degree of sample dilution prior to the analysis in order to keep analytes within the calibration range of the instrument and to reduce matrix interference.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:

Divine Basily

Quality Assurance

CLIENT NAME: SNC LAVALIN INC

AGAT WORK ORDER: 19T485836

PROJECT: 665125

ATTENTION TO: Robert Mitzakov

SAMPLING SITE: 10192 Hwy 50, Brampton, ON

SAMPLED BY: Sara Akib

| Trace Organics Analysis | | | | | | | | | | | | | | | | |
|-------------------------|-------|-----------|-----------|--------|-----|----------------|--------------|--------------------|-------|----------|--------------------|-------|----------|-------------------|-------|--|
| RPT Date: Jul 05, 2019 | | | DUPLICATE | | | | Method Blank | REFERENCE MATERIAL | | | METHOD BLANK SPIKE | | | MATRIX SPIKE | | |
| PARAMETER | Batch | Sample Id | Dup #1 | Dup #2 | RPD | Measured Value | | Acceptable Limits | | Recovery | Acceptable Limits | | Recovery | Acceptable Limits | | |
| | | | | | | | | Lower | Upper | | Lower | Upper | | Lower | Upper | |

O. Reg. 153(511) - VOCs (Water)

| | | | | | | | | | | | | | | | |
|-----------------------------|--------|--|--------|--------|----|--------|------|-----|------|------|-----|------|------|-----|------|
| Dichlorodifluoromethane | 303954 | | < 0.20 | < 0.20 | NA | < 0.20 | 92% | 50% | 140% | 85% | 50% | 140% | 85% | 50% | 140% |
| Vinyl Chloride | 303954 | | < 0.17 | < 0.17 | NA | < 0.17 | 85% | 50% | 140% | 102% | 50% | 140% | 101% | 50% | 140% |
| Bromomethane | 303954 | | < 0.20 | < 0.20 | NA | < 0.20 | 93% | 50% | 140% | 95% | 50% | 140% | 102% | 50% | 140% |
| Trichlorofluoromethane | 303954 | | < 0.40 | < 0.40 | NA | < 0.40 | 112% | 50% | 140% | 110% | 50% | 140% | 85% | 50% | 140% |
| Acetone | 303954 | | < 1.0 | < 1.0 | NA | < 1.0 | 112% | 50% | 140% | 105% | 50% | 140% | 91% | 50% | 140% |
| 1,1-Dichloroethylene | 303954 | | < 0.30 | < 0.30 | NA | < 0.30 | 77% | 50% | 140% | 87% | 60% | 130% | 83% | 50% | 140% |
| Methylene Chloride | 303954 | | < 0.30 | < 0.30 | NA | < 0.30 | 102% | 50% | 140% | 85% | 60% | 130% | 100% | 50% | 140% |
| trans- 1,2-Dichloroethylene | 303954 | | < 0.20 | < 0.20 | NA | < 0.20 | 83% | 50% | 140% | 103% | 60% | 130% | 83% | 50% | 140% |
| Methyl tert-butyl ether | 303954 | | < 0.20 | < 0.20 | NA | < 0.20 | 104% | 50% | 140% | 108% | 60% | 130% | 78% | 50% | 140% |
| 1,1-Dichloroethane | 303954 | | < 0.30 | < 0.30 | NA | < 0.30 | 91% | 50% | 140% | 109% | 60% | 130% | 86% | 50% | 140% |
| Methyl Ethyl Ketone | 303954 | | < 1.0 | < 1.0 | NA | < 1.0 | 96% | 50% | 140% | 107% | 50% | 140% | 80% | 50% | 140% |
| cis- 1,2-Dichloroethylene | 303954 | | < 0.20 | < 0.20 | NA | < 0.20 | 90% | 50% | 140% | 105% | 60% | 130% | 78% | 50% | 140% |
| Chloroform | 303954 | | < 0.20 | < 0.20 | NA | < 0.20 | 89% | 50% | 140% | 100% | 60% | 130% | 80% | 50% | 140% |
| 1,2-Dichloroethane | 303954 | | < 0.20 | < 0.20 | NA | < 0.20 | 118% | 50% | 140% | 100% | 60% | 130% | 88% | 50% | 140% |
| 1,1,1-Trichloroethane | 303954 | | < 0.30 | < 0.30 | NA | < 0.30 | 77% | 50% | 140% | 91% | 60% | 130% | 82% | 50% | 140% |
| Carbon Tetrachloride | 303954 | | < 0.20 | < 0.20 | NA | < 0.20 | 74% | 50% | 140% | 77% | 60% | 130% | 90% | 50% | 140% |
| Benzene | 303954 | | < 0.20 | < 0.20 | NA | < 0.20 | 98% | 50% | 140% | 112% | 60% | 130% | 77% | 50% | 140% |
| 1,2-Dichloropropane | 303954 | | < 0.20 | < 0.20 | NA | < 0.20 | 107% | 50% | 140% | 117% | 60% | 130% | 94% | 50% | 140% |
| Trichloroethylene | 303954 | | < 0.20 | < 0.20 | NA | < 0.20 | 86% | 50% | 140% | 100% | 60% | 130% | 122% | 50% | 140% |
| Bromodichloromethane | 303954 | | < 0.20 | < 0.20 | NA | < 0.20 | 96% | 50% | 140% | 114% | 60% | 130% | 76% | 50% | 140% |
| Methyl Isobutyl Ketone | 303954 | | < 1.0 | < 1.0 | NA | < 1.0 | 122% | 50% | 140% | 103% | 50% | 140% | 120% | 50% | 140% |
| 1,1,2-Trichloroethane | 303954 | | < 0.20 | < 0.20 | NA | < 0.20 | 102% | 50% | 140% | 99% | 60% | 130% | 111% | 50% | 140% |
| Toluene | 303954 | | < 0.20 | < 0.20 | NA | < 0.20 | 87% | 50% | 140% | 83% | 60% | 130% | 95% | 50% | 140% |
| Dibromochloromethane | 303954 | | < 0.10 | < 0.10 | NA | < 0.10 | 84% | 50% | 140% | 86% | 60% | 130% | 77% | 50% | 140% |
| Ethylene Dibromide | 303954 | | < 0.10 | < 0.10 | NA | < 0.10 | 95% | 50% | 140% | 96% | 60% | 130% | 108% | 50% | 140% |
| Tetrachloroethylene | 303954 | | < 0.20 | < 0.20 | NA | < 0.20 | 82% | 50% | 140% | 82% | 60% | 130% | 88% | 50% | 140% |
| 1,1,1,2-Tetrachloroethane | 303954 | | < 0.10 | < 0.10 | NA | < 0.10 | 85% | 50% | 140% | 85% | 60% | 130% | 80% | 50% | 140% |
| Chlorobenzene | 303954 | | < 0.10 | < 0.10 | NA | < 0.10 | 90% | 50% | 140% | 86% | 60% | 130% | 96% | 50% | 140% |
| Ethylbenzene | 303954 | | < 0.10 | < 0.10 | NA | < 0.10 | 80% | 50% | 140% | 76% | 60% | 130% | 88% | 50% | 140% |
| m & p-Xylene | 303954 | | < 0.20 | < 0.20 | NA | < 0.20 | 85% | 50% | 140% | 82% | 60% | 130% | 81% | 50% | 140% |
| Bromoform | 303954 | | < 0.10 | < 0.10 | NA | < 0.10 | 81% | 50% | 140% | 81% | 60% | 130% | 86% | 50% | 140% |
| Styrene | 303954 | | < 0.10 | < 0.10 | NA | < 0.10 | 74% | 50% | 140% | 82% | 60% | 130% | 83% | 50% | 140% |
| 1,1,2,2-Tetrachloroethane | 303954 | | < 0.10 | < 0.10 | NA | < 0.10 | 102% | 50% | 140% | 95% | 60% | 130% | 82% | 50% | 140% |
| o-Xylene | 303954 | | < 0.10 | < 0.10 | NA | < 0.10 | 84% | 50% | 140% | 79% | 60% | 130% | 90% | 50% | 140% |
| 1,3-Dichlorobenzene | 303954 | | < 0.10 | < 0.10 | NA | < 0.10 | 84% | 50% | 140% | 82% | 60% | 130% | 91% | 50% | 140% |
| 1,4-Dichlorobenzene | 303954 | | < 0.10 | < 0.10 | NA | < 0.10 | 84% | 50% | 140% | 80% | 60% | 130% | 93% | 50% | 140% |
| 1,2-Dichlorobenzene | 303954 | | < 0.10 | < 0.10 | NA | < 0.10 | 89% | 50% | 140% | 85% | 60% | 130% | 98% | 50% | 140% |
| 1,3-Dichloropropene | 303954 | | < 0.30 | < 0.30 | NA | < 0.30 | 85% | 50% | 140% | 98% | 60% | 130% | 86% | 50% | 140% |
| n-Hexane | 303954 | | < 0.20 | < 0.20 | NA | < 0.20 | 89% | 50% | 140% | 85% | 60% | 130% | 83% | 50% | 140% |

Quality Assurance

CLIENT NAME: SNC LAVALIN INC

AGAT WORK ORDER: 19T485836

PROJECT: 665125

ATTENTION TO: Robert Mitzakov

SAMPLING SITE: 10192 Hwy 50, Brampton, ON

SAMPLED BY: Sara Akib

Trace Organics Analysis (Continued)

| RPT Date: Jul 05, 2019 | | | DUPLICATE | | | Method Blank | REFERENCE MATERIAL | | | METHOD BLANK SPIKE | | | MATRIX SPIKE | | |
|------------------------|-------|-----------|-----------|--------|-----|--------------|--------------------|-------------------|-------|--------------------|-------------------|-------|--------------|-------------------|-------|
| PARAMETER | Batch | Sample Id | Dup #1 | Dup #2 | RPD | | 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) (Water)

| | | | | | | | | | | | | | | | |
|-----------------|--------|----|-------|-------|----|-------|------|-----|------|------|-----|------|------|-----|------|
| F1 (C6-C10) | 311511 | | < 25 | < 25 | NA | < 25 | 106% | 60% | 140% | 104% | 60% | 140% | 95% | 60% | 140% |
| F2 (C10 to C16) | | TW | < 100 | < 100 | NA | < 100 | 105% | 60% | 140% | 89% | 60% | 140% | 104% | 60% | 140% |
| F3 (C16 to C34) | | TW | < 100 | < 100 | NA | < 100 | 101% | 60% | 140% | 93% | 60% | 140% | 118% | 60% | 140% |
| F4 (C34 to C50) | | TW | < 100 | < 100 | NA | < 100 | 74% | 60% | 140% | 86% | 60% | 140% | 96% | 60% | 140% |

O. Reg. 153(511) - PAHs (Water)

| | | | | | | | | | | | | | | | |
|------------------------|--|----|--------|--------|----|--------|------|-----|------|------|-----|------|-----|-----|------|
| Naphthalene | | TW | < 0.20 | < 0.20 | NA | < 0.20 | 107% | 50% | 140% | 102% | 50% | 140% | 75% | 50% | 140% |
| Acenaphthylene | | TW | < 0.20 | < 0.20 | NA | < 0.20 | 115% | 50% | 140% | 115% | 50% | 140% | 87% | 50% | 140% |
| Acenaphthene | | TW | < 0.20 | < 0.20 | NA | < 0.20 | 112% | 50% | 140% | 112% | 50% | 140% | 84% | 50% | 140% |
| Fluorene | | TW | < 0.20 | < 0.20 | NA | < 0.20 | 116% | 50% | 140% | 119% | 50% | 140% | 90% | 50% | 140% |
| Phenanthrene | | TW | < 0.10 | < 0.10 | NA | < 0.10 | 116% | 50% | 140% | 118% | 50% | 140% | 89% | 50% | 140% |
| Anthracene | | TW | < 0.10 | < 0.10 | NA | < 0.10 | 114% | 50% | 140% | 117% | 50% | 140% | 90% | 50% | 140% |
| Fluoranthene | | TW | < 0.20 | < 0.20 | NA | < 0.20 | 111% | 50% | 140% | 112% | 50% | 140% | 87% | 50% | 140% |
| Pyrene | | TW | < 0.20 | < 0.20 | NA | < 0.20 | 105% | 50% | 140% | 107% | 50% | 140% | 84% | 50% | 140% |
| Benz(a)anthracene | | TW | < 0.20 | < 0.20 | NA | < 0.20 | 83% | 50% | 140% | 92% | 50% | 140% | 72% | 50% | 140% |
| Chrysene | | TW | < 0.10 | < 0.10 | NA | < 0.10 | 96% | 50% | 140% | 92% | 50% | 140% | 75% | 50% | 140% |
| Benzo(b)fluoranthene | | TW | < 0.10 | < 0.10 | NA | < 0.10 | 106% | 50% | 140% | 98% | 50% | 140% | 73% | 50% | 140% |
| Benzo(k)fluoranthene | | TW | < 0.10 | < 0.10 | NA | < 0.10 | 116% | 50% | 140% | 100% | 50% | 140% | 78% | 50% | 140% |
| Benzo(a)pyrene | | TW | < 0.01 | < 0.01 | NA | < 0.01 | 112% | 50% | 140% | 97% | 50% | 140% | 76% | 50% | 140% |
| Indeno(1,2,3-cd)pyrene | | TW | < 0.20 | < 0.20 | NA | < 0.20 | 113% | 50% | 140% | 94% | 50% | 140% | 74% | 50% | 140% |
| Dibenz(a,h)anthracene | | TW | < 0.20 | < 0.20 | NA | < 0.20 | 118% | 50% | 140% | 97% | 50% | 140% | 78% | 50% | 140% |
| Benzo(g,h,i)perylene | | TW | < 0.20 | < 0.20 | NA | < 0.20 | 119% | 50% | 140% | 94% | 50% | 140% | 75% | 50% | 140% |

Comments: Tap water analysis has been performed as QC sample testing for duplicate and matrix spike due to insufficient sample volume. 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).

Certified By: _____



Quality Assurance

CLIENT NAME: SNC LAVALIN INC

AGAT WORK ORDER: 19T485836

PROJECT: 665125

ATTENTION TO: Robert Mitzakov

SAMPLING SITE: 10192 Hwy 50, Brampton, ON

SAMPLED BY: Sara Akib

| Water Analysis | | | | | | | | | | | | | | | |
|------------------------|-------|-----------|-----------|--------|-----|----------------|--------------|--------------------|-------|----------|--------------------|-------|----------|-------------------|-------|
| RPT Date: Jul 05, 2019 | | | DUPLICATE | | | | Method Blank | REFERENCE MATERIAL | | | METHOD BLANK SPIKE | | | MATRIX SPIKE | |
| PARAMETER | Batch | Sample Id | Dup #1 | Dup #2 | RPD | Measured Value | | Acceptable Limits | | Recovery | Acceptable Limits | | Recovery | Acceptable Limits | |
| | | | | | | | | Lower | Upper | | Lower | Upper | | Lower | Upper |

O. Reg. 153(511) - Metals & Inorganics (Water)

| | | | | | | | | | | | | | | | |
|-------------------------|--------|--|--------|--------|-------|--------|------|-----|------|------|-----|------|------|-----|------|
| Barium | 311511 | | 77.5 | 88.5 | 13.3% | < 2.0 | 98% | 70% | 130% | 97% | 80% | 120% | 100% | 70% | 130% |
| Beryllium | 311511 | | <0.5 | <0.5 | NA | < 0.5 | 100% | 70% | 130% | 100% | 80% | 120% | 98% | 70% | 130% |
| Boron | 311511 | | 26.1 | 26.1 | NA | < 10.0 | 102% | 70% | 130% | 107% | 80% | 120% | 104% | 70% | 130% |
| Cadmium | 311511 | | <0.2 | <0.2 | NA | < 0.2 | 102% | 70% | 130% | 103% | 80% | 120% | 115% | 70% | 130% |
| Chromium | 311511 | | <2.0 | <2.0 | NA | < 2.0 | 103% | 70% | 130% | 103% | 80% | 120% | 101% | 70% | 130% |
| Cobalt | 311511 | | 7.1 | 7.1 | 0.0% | < 0.5 | 105% | 70% | 130% | 104% | 80% | 120% | 96% | 70% | 130% |
| Copper | 311511 | | <1.0 | <1.0 | NA | < 1.0 | 105% | 70% | 130% | 105% | 80% | 120% | 95% | 70% | 130% |
| Lead | 311511 | | <0.5 | <0.5 | NA | < 0.5 | 97% | 70% | 130% | 102% | 80% | 120% | 93% | 70% | 130% |
| Molybdenum | 311511 | | 2.6 | 2.6 | 0.0% | < 0.5 | 100% | 70% | 130% | 99% | 80% | 120% | 111% | 70% | 130% |
| Nickel | 311511 | | 3.5 | 3.0 | NA | < 1.0 | 106% | 70% | 130% | 105% | 80% | 120% | 93% | 70% | 130% |
| Silver | 311511 | | <0.2 | <0.2 | NA | < 0.2 | 101% | 70% | 130% | 109% | 80% | 120% | 105% | 70% | 130% |
| Thallium | 311511 | | <0.3 | <0.3 | NA | < 0.3 | 101% | 70% | 130% | 107% | 80% | 120% | 98% | 70% | 130% |
| Uranium | 311511 | | 2.7 | 2.7 | 0.0% | < 0.5 | 99% | 70% | 130% | 103% | 80% | 120% | 98% | 70% | 130% |
| Vanadium | 311511 | | <0.4 | <0.4 | NA | < 0.4 | 96% | 70% | 130% | 98% | 80% | 120% | 97% | 70% | 130% |
| Zinc | 311511 | | 5.5 | 12.7 | NA | < 5.0 | 107% | 70% | 130% | 106% | 80% | 120% | 102% | 70% | 130% |
| Mercury | 320847 | | <0.02 | <0.02 | NA | < 0.02 | 101% | 70% | 130% | 96% | 80% | 120% | 97% | 70% | 130% |
| Chromium VI | 311511 | | <5 | <5 | NA | < 5 | 101% | 70% | 130% | 101% | 80% | 120% | 98% | 70% | 130% |
| Cyanide | 311372 | | <2 | <2 | NA | < 2 | 102% | 70% | 130% | 91% | 80% | 120% | 103% | 70% | 130% |
| Sodium | 311511 | | 151000 | 153000 | 1.3% | < 500 | 95% | 70% | 130% | 96% | 80% | 120% | 97% | 70% | 130% |
| Chloride | 317769 | | 112000 | 108000 | 3.6% | < 100 | 93% | 70% | 130% | 103% | 70% | 130% | 105% | 70% | 130% |
| Electrical Conductivity | 312765 | | 2150 | 2180 | 1.4% | < 2 | 97% | 90% | 110% | | | | | | |
| pH | 312765 | | 7.77 | 7.70 | 0.9% | NA | 100% | 90% | 110% | | | | | | |

Comments: NA signifies Not Applicable.

Duplicate Qualifier: As the measured result approaches the RL, the uncertainty associated with the value increases dramatically, thus duplicate acceptance limits apply only where the average of the two duplicates is greater than five times the RL.

Certified By: _____

Divine Basily

Method Summary

CLIENT NAME: SNC LAVALIN INC

AGAT WORK ORDER: 19T485836

PROJECT: 665125

ATTENTION TO: Robert Mitzakov

SAMPLING SITE: 10192 Hwy 50, Brampton, ON

SAMPLED BY: Sara Akib

| PARAMETER | AGAT S.O.P | LITERATURE REFERENCE | ANALYTICAL TECHNIQUE |
|-----------------------------------|--------------|--------------------------|----------------------|
| Trace Organics Analysis | | | |
| Naphthalene | ORG-91-5105 | EPA SW-846 3510 & 8270D | GC/MS |
| Acenaphthylene | ORG-91-5105 | EPA SW-846 3510 & 8270D | GC/MS |
| Acenaphthene | ORG-91-5105 | EPA SW-846 3510 & 8270D | GC/MS |
| Fluorene | ORG-91-5105 | EPA SW-846 3510 & 8270D | GC/MS |
| Phenanthrene | ORG-91-5105 | EPA SW-846 3510 & 8270D | GC/MS |
| Anthracene | ORG-91-5105 | EPA SW-846 3510 & 8270D | GC/MS |
| Fluoranthene | ORG-91-5105 | EPA SW-846 3510 & 8270D | GC/MS |
| Pyrene | ORG-91-5105 | EPA SW-846 3510 & 8270D | GC/MS |
| Benz(a)anthracene | ORG-91-5105 | EPA SW-846 3510 & 8270D | GC/MS |
| Chrysene | ORG-91-5105 | EPA SW-846 3510 & 8270D | GC/MS |
| Benzo(b)fluoranthene | ORG-91-5105 | EPA SW-846 3510 & 8270D | GC/MS |
| Benzo(k)fluoranthene | ORG-91-5105 | EPA SW-846 3510 & 8270D | GC/MS |
| Benzo(a)pyrene | ORG-91-5105 | EPA SW-846 3510 & 8270D | GC/MS |
| Indeno(1,2,3-cd)pyrene | ORG-91-5105 | EPA SW-846 3510 & 8270D | GC/MS |
| Dibenz(a,h)anthracene | ORG-91-5105 | EPA SW-846 3510 & 8270D | GC/MS |
| Benzo(g,h,i)perylene | ORG-91-5105 | EPA SW-846 3510 & 8270D | GC/MS |
| 2-and 1-methyl Naphthalene | ORG-91-5105 | EPA SW-846 3510 & 8270D | GC/MS |
| Chrysene-d12 | ORG-91-5105 | EPA SW-846 3510 & 8270D | GC/MS |
| F1 (C6-C10) | VOL-91- 5010 | MOE PHC-E3421 | P&T GC/FID |
| F1 (C6 to C10) minus BTEX | VOL-91-5010 | MOE PHC E3421 | P&T GC/FID |
| F2 (C10 to C16) | VOL-91-5010 | MOE PHC E3421 | GC/FID |
| F2 (C10 to C16) minus Naphthalene | VOL-91-5010 | MOE PHC E3421 | GC/FID |
| F3 (C16 to C34) | VOL-91-5010 | MOE PHC E3421 | GC/FID |
| F3 (C16 to C34) minus PAHs | VOL-91-5010 | MOE PHC E3421 | GC/FID |
| F4 (C34 to C50) | VOL-91-5010 | MOE PHC E3421 | GC/FID |
| Gravimetric Heavy Hydrocarbons | VOL-91-5010 | MOE PHC E3421 | BALANCE |
| Terphenyl | VOL-91-5010 | | GC/FID |
| Dichlorodifluoromethane | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Vinyl Chloride | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Bromomethane | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Trichlorofluoromethane | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Acetone | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| 1,1-Dichloroethylene | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Methylene Chloride | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| trans- 1,2-Dichloroethylene | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Methyl tert-butyl ether | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| 1,1-Dichloroethane | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Methyl Ethyl Ketone | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| cis- 1,2-Dichloroethylene | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Chloroform | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| 1,2-Dichloroethane | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| 1,1,1-Trichloroethane | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Carbon Tetrachloride | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Benzene | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| 1,2-Dichloropropane | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Trichloroethylene | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Bromodichloromethane | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Methyl Isobutyl Ketone | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| 1,1,2-Trichloroethane | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |

Method Summary

CLIENT NAME: SNC LAVALIN INC

AGAT WORK ORDER: 19T485836

PROJECT: 665125

ATTENTION TO: Robert Mitzakov

SAMPLING SITE: 10192 Hwy 50, Brampton, ON

SAMPLED BY: Sara Akib

| PARAMETER | AGAT S.O.P | LITERATURE REFERENCE | ANALYTICAL TECHNIQUE |
|---------------------------|--------------|-------------------------------------|-------------------------|
| Toluene | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Dibromochloromethane | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Ethylene Dibromide | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Tetrachloroethylene | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| 1,1,1,2-Tetrachloroethane | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Chlorobenzene | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Ethylbenzene | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| m & p-Xylene | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Bromoform | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Styrene | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| 1,1,2,2-Tetrachloroethane | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| o-Xylene | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| 1,3-Dichlorobenzene | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| 1,4-Dichlorobenzene | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| 1,2-Dichlorobenzene | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| 1,3-Dichloropropene | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Xylene Mixture | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| n-Hexane | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Toluene-d8 | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| 4-Bromofluorobenzene | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Water Analysis | | | |
| Barium | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Beryllium | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Boron | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Cadmium | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Chromium | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Cobalt | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Copper | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Lead | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Molybdenum | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Nickel | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Silver | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Thallium | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Uranium | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Vanadium | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Zinc | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Mercury | MET-93-6100 | EPA SW 846 7470 & 245.1 | CVAAS |
| Chromium VI | INOR-93-6034 | SM 3500-Cr B | SPECTROPHOTOMETER |
| Cyanide | INOR-93-6052 | MOE METHOD CN- 3015 & SM 4500 CN- I | TECHNICON AUTO ANALYZER |
| Sodium | MET-93-6105 | EPA SW-846 6010C & 200.7 | ICP/OES |
| Chloride | INOR-93-6004 | SM 4110 B | ION CHROMATOGRAPH |
| Electrical Conductivity | INOR-93-6000 | SM 2510 B | PC TITRATE |
| pH | INOR-93-6000 | SM 4500-H+ B | PC TITRATE |



AGAT Laboratories

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Mississauga, Ontario L4Z 1Y2
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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: SNC Lavalin
Contact: Robert Mitzakov
Address: 235 Leslie Street
Toronto, ON
Phone: 416-613-5588 Fax: _____
Reports to be sent to:
1. Email: Robert.Mitzakov@snc-lavalin.com
2. Email: Abed.Yassine@snc-lavalin.com

Regulatory Requirements:

No Regulatory Requirement
(Please check all applicable boxes)

Regulation 153/04
Table 9 Indicate One
 Ind/Com
 Res/Park
 Agriculture

Sewer Use
 Sanitary
 Storm
 Regulation 558
 CCME
 Prov. Water Quality Objectives (PWQO)
 Other

Soil Texture (Check One) Region _____ Indicate One
 Coarse
 Fine
 MISA

Laboratory Use Only

Work Order #: 19T485836
Cooler Quantity: 1 Large blue
Arrival Temperatures: 7.7 | 8.0 | 7.6
Custody Seal Intact: Yes No N/A
Notes: Ice

Project Information:

Project: 665125
Site Location: 10192 Hwy 4 50, Brampton, ON
Sampled By: Sara Akib
AGAT Quote #: _____ PO: 665125
Please note: If quotation number is not provided, client will be billed full price for analysis.

Is this submission for a Record of Site Condition?

Yes No

Report Guideline on Certificate of Analysis

Yes No

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

Invoice Information:

Bill To Same: Yes No
Company: _____
Contact: _____
Address: _____
Email: Payable@snc-lavalin.com

Sample Matrix Legend

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

Field Filtered - Metals, Hg, CVI

| Sample Identification | Date Sampled | Time Sampled | # of Containers | Sample Matrix | Comments/ Special Instructions | Y / N | 0. Reg 153 | | | | | | | | | | | | | | | Potentially Hazardous or High Concentration (Y/N) | | |
|-----------------------|--------------|--------------|-----------------|---------------|--|-------|---|--|--|--|--|------------------|--------------------------|---|---|---------------------------|------|-----------|--|---------------------------|---|---|--|--|
| | | | | | | | Metals and Inorganics | Field Filtered - Metals, Hg, CVI | Regulation/Custom Metals | Nutrients | Volatiles | PHCs F1 - F4 | ABNS | PAHS | PCBs | Organochlorine Pesticides | TCLP | Sewer Use | | | | | | |
| MW-33 ✓ | 27/06/19 | 8:15am | 13 | GW | PAHS: limited sample Vocs/BTEX: trace of sediment | | <input type="checkbox"/> All Metals <input type="checkbox"/> 153 Metals (exc. Hydrides) | <input checked="" type="checkbox"/> <input type="checkbox"/> Hydride Metals <input type="checkbox"/> 153 Metals (Incl. Hydrides) | ORPs: <input type="checkbox"/> B-HWS <input type="checkbox"/> Cl <input type="checkbox"/> CN | <input type="checkbox"/> Cr ⁶⁺ <input type="checkbox"/> EC <input type="checkbox"/> FOC <input type="checkbox"/> Hg | <input type="checkbox"/> pH <input type="checkbox"/> SAR | Full Metals Scan | Regulation/Custom Metals | Nutrients: <input type="checkbox"/> TP <input type="checkbox"/> NH ₃ <input type="checkbox"/> TKN <input type="checkbox"/> NO ₃ <input type="checkbox"/> NO ₂ <input type="checkbox"/> NO ₃ +NO ₂ | Volatiles: <input checked="" type="checkbox"/> VOC <input type="checkbox"/> BTEX <input type="checkbox"/> THM | PHCs F1 - F4 | ABNS | PAHS | PCBs: <input type="checkbox"/> Total <input type="checkbox"/> Aroclors | Organochlorine Pesticides | TCLP: <input type="checkbox"/> M&I <input type="checkbox"/> VOCs <input type="checkbox"/> ABNS <input type="checkbox"/> B(a)P <input type="checkbox"/> PCBs | Sewer Use | | |
| MW-51A | 27/06/19 | 10:15am | 5 | GW | | | | | | | | | | | | | | | | | | | | |

| | | | | | | |
|---|-----------------------|----------------------|---|-------------------------|---------------------|---------------------|
| Samples Relinquished By (Print Name and Sign): <u>Sara Akib</u> | Date: <u>27/06/19</u> | Time: <u>12:30pm</u> | Samples Received By (Print Name and Sign): <u>Jorge A</u> | Date: <u>June 27/19</u> | Time: <u>4:52pm</u> | Page _____ of _____ |
| 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: _____ | Nº: T 090874 |



CLIENT NAME: SNC LAVALIN INC
235 LESMILL ROAD
TORONTO, ON M3B 2V1
(416) 679-6000

ATTENTION TO: Robert Mitzakov

PROJECT: City Of Brampton Drilling & Soil Sampling

AGAT WORK ORDER: 19T531736

TRACE ORGANICS REVIEWED BY: Navdeep Kaur Kansera, Senior Lab Technician

DATE REPORTED: Oct 23, 2019

PAGES (INCLUDING COVER): 8

VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (905) 712-5100

*NOTES

All samples will be disposed of within 30 days following analysis. Please contact the lab if you require additional sample storage time.



Certificate of Analysis

AGAT WORK ORDER: 19T531736

PROJECT: City Of Brampton Drilling & Soil Sampling

5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
TEL (905)712-5100
FAX (905)712-5122
<http://www.agatlabs.com>

CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Robert Mitzakov

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - PHCs F1/BTEX (Water)

DATE RECEIVED: 2019-10-17

DATE REPORTED: 2019-10-23

| | | SAMPLE DESCRIPTION: Trip Blank | | |
|---------------------------|------|--------------------------------|-----|--------|
| | | SAMPLE TYPE: Water | | |
| | | DATE SAMPLED: 2019-10-16 | | |
| Parameter | Unit | G / S | RDL | 624923 |
| F1 (C6-C10) | µg/L | | 25 | <25 |
| F1 (C6 to C10) minus BTEX | µg/L | 420 | 25 | <25 |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 8: Generic Site Condition Standards for Use within 30 m of a Water Body in a Potable Ground Water Condition - Ground Water - All Types of Property Uses

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.

624923 The C6-C10 fraction is calculated using Toluene response factor.

Total C6-C10 results are corrected for BTEX contributions.

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.

This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.

nC6 and nC10 response factors are within 30% of Toluene response factor.

Extraction and holding times were met for this sample.

NA = Not Applicable

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:

Navdeep Kansera



Certificate of Analysis

AGAT WORK ORDER: 19T531736

PROJECT: City Of Brampton Drilling & Soil Sampling

5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
TEL (905)712-5100
FAX (905)712-5122
<http://www.agatlabs.com>

CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Robert Mitzakov

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - VOCs (Water)

DATE RECEIVED: 2019-10-17

DATE REPORTED: 2019-10-23

| Parameter | Unit | SAMPLE DESCRIPTION: | | | Trip Blank |
|-----------------------------|------|---------------------|------|--------|------------|
| | | G / S | RDL | 624923 | Water |
| | | DATE SAMPLED: | | | 2019-10-16 |
| Dichlorodifluoromethane | µg/L | 590 | 0.20 | <0.20 | |
| Vinyl Chloride | µg/L | 0.5 | 0.17 | <0.17 | |
| Bromomethane | µg/L | 0.89 | 0.20 | <0.20 | |
| Trichlorofluoromethane | µg/L | 150 | 0.40 | <0.40 | |
| Acetone | µg/L | 2700 | 1.0 | <1.0 | |
| 1,1-Dichloroethylene | µg/L | 1.6 | 0.30 | <0.30 | |
| Methylene Chloride | µg/L | 50 | 0.30 | <0.30 | |
| trans- 1,2-Dichloroethylene | µg/L | 1.6 | 0.20 | <0.20 | |
| Methyl tert-butyl ether | µg/L | 15 | 0.20 | <0.20 | |
| 1,1-Dichloroethane | µg/L | 5 | 0.30 | <0.30 | |
| Methyl Ethyl Ketone | µg/L | 1800 | 1.0 | <1.0 | |
| cis- 1,2-Dichloroethylene | µg/L | 1.6 | 0.20 | <0.20 | |
| Chloroform | µg/L | 2.4 | 0.20 | <0.20 | |
| 1,2-Dichloroethane | µg/L | 1.6 | 0.20 | <0.20 | |
| 1,1,1-Trichloroethane | µg/L | 200 | 0.30 | <0.30 | |
| Carbon Tetrachloride | µg/L | 0.79 | 0.20 | <0.20 | |
| Benzene | µg/L | 5 | 0.20 | <0.20 | |
| 1,2-Dichloropropane | µg/L | 5 | 0.20 | <0.20 | |
| Trichloroethylene | µg/L | 1.6 | 0.20 | <0.20 | |
| Bromodichloromethane | µg/L | 16 | 0.20 | <0.20 | |
| Methyl Isobutyl Ketone | µg/L | 640 | 1.0 | <1.0 | |
| 1,1,2-Trichloroethane | µg/L | 4.7 | 0.20 | <0.20 | |
| Toluene | µg/L | 22 | 0.20 | <0.20 | |
| Dibromochloromethane | µg/L | 25 | 0.10 | <0.10 | |
| Ethylene Dibromide | µg/L | 0.2 | 0.10 | <0.10 | |
| Tetrachloroethylene | µg/L | 1.6 | 0.20 | <0.20 | |
| 1,1,1,2-Tetrachloroethane | µg/L | 1.1 | 0.10 | <0.10 | |
| Chlorobenzene | µg/L | 30 | 0.10 | <0.10 | |
| Ethylbenzene | µg/L | 2.4 | 0.10 | <0.10 | |
| m & p-Xylene | µg/L | | 0.20 | <0.20 | |

Certified By:

Navdeep Kansera



Certificate of Analysis

AGAT WORK ORDER: 19T531736

PROJECT: City Of Brampton Drilling & Soil Sampling

5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
TEL (905)712-5100
FAX (905)712-5122
<http://www.agatlabs.com>

CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Robert Mitzakov

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - VOCs (Water)

DATE RECEIVED: 2019-10-17

DATE REPORTED: 2019-10-23

| | | SAMPLE DESCRIPTION: Trip Blank | | |
|---------------------------|------------|--------------------------------|------|--------|
| | | SAMPLE TYPE: Water | | |
| | | DATE SAMPLED: 2019-10-16 | | |
| Parameter | Unit | G / S | RDL | 624923 |
| Bromoform | µg/L | 25 | 0.10 | <0.10 |
| Styrene | µg/L | 5.4 | 0.10 | <0.10 |
| 1,1,2,2-Tetrachloroethane | µg/L | 1 | 0.10 | <0.10 |
| o-Xylene | µg/L | | 0.10 | <0.10 |
| 1,3-Dichlorobenzene | µg/L | 59 | 0.10 | <0.10 |
| 1,4-Dichlorobenzene | µg/L | 1 | 0.10 | <0.10 |
| 1,2-Dichlorobenzene | µg/L | 3 | 0.10 | <0.10 |
| 1,3-Dichloropropene | µg/L | 0.5 | 0.30 | <0.30 |
| Xylene Mixture | µg/L | 300 | 0.20 | <0.20 |
| n-Hexane | µg/L | 51 | 0.20 | <0.20 |
| Surrogate | Unit | Acceptable Limits | | |
| Toluene-d8 | % Recovery | 50-140 | | 106 |
| 4-Bromofluorobenzene | % Recovery | 50-140 | | 91 |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 8: Generic Site Condition Standards for Use within 30 m of a Water Body in a Potable Ground Water Condition - Ground Water - All Types of Property Uses
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.

624923 Xylenes total is a calculated parameter. The calculated value is the sum of m&p-Xylene and 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:

Navdeep Kansera

Quality Assurance

CLIENT NAME: SNC LAVALIN INC

AGAT WORK ORDER: 19T531736

PROJECT: City Of Brampton Drilling & Soil Sampling

ATTENTION TO: Robert Mitzakov

SAMPLING SITE:

SAMPLED BY:

Trace Organics Analysis

| RPT Date: Oct 23, 2019 | | | DUPLICATE | | | Method Blank | REFERENCE MATERIAL | | | METHOD BLANK SPIKE | | | MATRIX SPIKE | | |
|---------------------------------|--------|-----------|-----------|--------|-----|--------------|--------------------|-------------------|-------|--------------------|-------------------|-------|--------------|-------------------|-------|
| PARAMETER | Batch | Sample Id | Dup #1 | Dup #2 | RPD | | Measured Value | Acceptable Limits | | Recovery | Acceptable Limits | | Recovery | Acceptable Limits | |
| | | | | | | | | Lower | Upper | | Lower | Upper | | Lower | Upper |
| O. Reg. 153(511) - VOCs (Water) | | | | | | | | | | | | | | | |
| Dichlorodifluoromethane | 623574 | | < 0.20 | < 0.20 | NA | < 0.20 | 82% | 50% | 140% | 73% | 50% | 140% | 78% | 50% | 140% |
| Vinyl Chloride | 623574 | | < 0.17 | < 0.17 | NA | < 0.17 | 77% | 50% | 140% | 122% | 50% | 140% | 105% | 50% | 140% |
| Bromomethane | 623574 | | < 0.20 | < 0.20 | NA | < 0.20 | 93% | 50% | 140% | 113% | 50% | 140% | 87% | 50% | 140% |
| Trichlorofluoromethane | 623574 | | < 0.40 | < 0.40 | NA | < 0.40 | 83% | 50% | 140% | 82% | 50% | 140% | 81% | 50% | 140% |
| Acetone | 623574 | | < 1.0 | < 1.0 | NA | < 1.0 | 112% | 50% | 140% | 104% | 50% | 140% | 112% | 50% | 140% |
| 1,1-Dichloroethylene | 623574 | | < 0.30 | < 0.30 | NA | < 0.30 | 79% | 50% | 140% | 76% | 60% | 130% | 96% | 50% | 140% |
| Methylene Chloride | 623574 | | < 0.30 | < 0.30 | NA | < 0.30 | 105% | 50% | 140% | 101% | 60% | 130% | 103% | 50% | 140% |
| trans- 1,2-Dichloroethylene | 623574 | | < 0.20 | < 0.20 | NA | < 0.20 | 79% | 50% | 140% | 89% | 60% | 130% | 93% | 50% | 140% |
| Methyl tert-butyl ether | 623574 | | < 0.20 | < 0.20 | NA | < 0.20 | 91% | 50% | 140% | 94% | 60% | 130% | 107% | 50% | 140% |
| 1,1-Dichloroethane | 623574 | | < 0.30 | < 0.30 | NA | < 0.30 | 94% | 50% | 140% | 84% | 60% | 130% | 98% | 50% | 140% |
| Methyl Ethyl Ketone | 623574 | | < 1.0 | < 1.0 | NA | < 1.0 | 110% | 50% | 140% | 89% | 50% | 140% | 104% | 50% | 140% |
| cis- 1,2-Dichloroethylene | 623574 | | < 0.20 | < 0.20 | NA | < 0.20 | 86% | 50% | 140% | 100% | 60% | 130% | 98% | 50% | 140% |
| Chloroform | 623574 | | < 0.20 | < 0.20 | NA | < 0.20 | 102% | 50% | 140% | 84% | 60% | 130% | 98% | 50% | 140% |
| 1,2-Dichloroethane | 623574 | | < 0.20 | < 0.20 | NA | < 0.20 | 93% | 50% | 140% | 103% | 60% | 130% | 108% | 50% | 140% |
| 1,1,1-Trichloroethane | 623574 | | < 0.30 | < 0.30 | NA | < 0.30 | 84% | 50% | 140% | 86% | 60% | 130% | 90% | 50% | 140% |
| Carbon Tetrachloride | 623574 | | < 0.20 | < 0.20 | NA | < 0.20 | 73% | 50% | 140% | 80% | 60% | 130% | 74% | 50% | 140% |
| Benzene | 623574 | | < 0.20 | < 0.20 | NA | < 0.20 | 101% | 50% | 140% | 85% | 60% | 130% | 101% | 50% | 140% |
| 1,2-Dichloropropane | 623574 | | < 0.20 | < 0.20 | NA | < 0.20 | 82% | 50% | 140% | 89% | 60% | 130% | 81% | 50% | 140% |
| Trichloroethylene | 623574 | | < 0.20 | < 0.20 | NA | < 0.20 | 77% | 50% | 140% | 96% | 60% | 130% | 95% | 50% | 140% |
| Bromodichloromethane | 623574 | | < 0.20 | < 0.20 | NA | < 0.20 | 84% | 50% | 140% | 81% | 60% | 130% | 83% | 50% | 140% |
| Methyl Isobutyl Ketone | 623574 | | < 1.0 | < 1.0 | NA | < 1.0 | 90% | 50% | 140% | 102% | 50% | 140% | 87% | 50% | 140% |
| 1,1,2-Trichloroethane | 623574 | | < 0.20 | < 0.20 | NA | < 0.20 | 97% | 50% | 140% | 110% | 60% | 130% | 84% | 50% | 140% |
| Toluene | 623574 | | < 0.20 | < 0.20 | NA | < 0.20 | 115% | 50% | 140% | 90% | 60% | 130% | 110% | 50% | 140% |
| Dibromochloromethane | 623574 | | < 0.10 | < 0.10 | NA | < 0.10 | 112% | 50% | 140% | 94% | 60% | 130% | 103% | 50% | 140% |
| Ethylene Dibromide | 623574 | | < 0.10 | < 0.10 | NA | < 0.10 | 107% | 50% | 140% | 117% | 60% | 130% | 117% | 50% | 140% |
| Tetrachloroethylene | 623574 | | < 0.20 | < 0.20 | NA | < 0.20 | 107% | 50% | 140% | 84% | 60% | 130% | 107% | 50% | 140% |
| 1,1,1,2-Tetrachloroethane | 623574 | | < 0.10 | < 0.10 | NA | < 0.10 | 111% | 50% | 140% | 95% | 60% | 130% | 104% | 50% | 140% |
| Chlorobenzene | 623574 | | < 0.10 | < 0.10 | NA | < 0.10 | 112% | 50% | 140% | 94% | 60% | 130% | 108% | 50% | 140% |
| Ethylbenzene | 623574 | | < 0.10 | < 0.10 | NA | < 0.10 | 105% | 50% | 140% | 84% | 60% | 130% | 103% | 50% | 140% |
| m & p-Xylene | 623574 | | < 0.20 | < 0.20 | NA | < 0.20 | 105% | 50% | 140% | 87% | 60% | 130% | 83% | 50% | 140% |
| Bromoform | 623574 | | < 0.10 | < 0.10 | NA | < 0.10 | 113% | 50% | 140% | 103% | 60% | 130% | 106% | 50% | 140% |
| Styrene | 623574 | | < 0.10 | < 0.10 | NA | < 0.10 | 86% | 50% | 140% | 104% | 60% | 130% | 100% | 50% | 140% |
| 1,1,2,2-Tetrachloroethane | 623574 | | < 0.10 | < 0.10 | NA | < 0.10 | 108% | 50% | 140% | 102% | 60% | 130% | 95% | 50% | 140% |
| o-Xylene | 623574 | | < 0.10 | < 0.10 | NA | < 0.10 | 111% | 50% | 140% | 93% | 60% | 130% | 109% | 50% | 140% |
| 1,3-Dichlorobenzene | 623574 | | < 0.10 | < 0.10 | NA | < 0.10 | 115% | 50% | 140% | 92% | 60% | 130% | 115% | 50% | 140% |
| 1,4-Dichlorobenzene | 623574 | | < 0.10 | < 0.10 | NA | < 0.10 | 109% | 50% | 140% | 94% | 60% | 130% | 111% | 50% | 140% |
| 1,2-Dichlorobenzene | 623574 | | < 0.10 | < 0.10 | NA | < 0.10 | 113% | 50% | 140% | 97% | 60% | 130% | 111% | 50% | 140% |
| 1,3-Dichloropropene | 623574 | | < 0.30 | < 0.30 | NA | < 0.30 | 80% | 50% | 140% | 93% | 60% | 130% | 83% | 50% | 140% |
| n-Hexane | 623574 | | < 0.20 | < 0.20 | NA | < 0.20 | 78% | 50% | 140% | 84% | 60% | 130% | 80% | 50% | 140% |

Quality Assurance

CLIENT NAME: SNC LAVALIN INC

AGAT WORK ORDER: 19T531736

PROJECT: City Of Brampton Drilling & Soil Sampling

ATTENTION TO: Robert Mitzakov

SAMPLING SITE:

SAMPLED BY:

Trace Organics Analysis (Continued)

| | | | | | | | | | | | | | | | |
|------------------------|-------|--------------|-----------|--------|-----|-------------------|-----------------|----------------------|-------|----------|----------------------|-------|--------------|----------------------|-------|
| RPT Date: Oct 23, 2019 | | | DUPLICATE | | | | Method Blank | REFERENCE MATERIAL | | | METHOD BLANK SPIKE | | MATRIX SPIKE | | |
| PARAMETER | Batch | Sample Id | Dup #1 | Dup #2 | RPD | Measured Value | | Acceptable Limits | | Recovery | Acceptable Limits | | Recovery | Acceptable Limits | |
| | | | | | | | | Lower | Upper | | Lower | Upper | | Lower | Upper |

O. Reg. 153(511) - PHCs F1/BTEX (Water)

| | | | | | | | | | | | | | | |
|-------------|--------|------|------|----|------|-----|-----|------|-----|-----|------|-----|-----|------|
| F1 (C6-C10) | 607594 | < 25 | < 25 | NA | < 25 | 95% | 60% | 140% | 89% | 60% | 140% | 93% | 60% | 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).

Certified By:



Method Summary

CLIENT NAME: SNC LAVALIN INC

AGAT WORK ORDER: 19T531736

PROJECT: City Of Brampton Drilling & Soil Sampling

ATTENTION TO: Robert Mitzakov

SAMPLING SITE:

SAMPLED BY:

| PARAMETER | AGAT S.O.P | LITERATURE REFERENCE | ANALYTICAL TECHNIQUE |
|-----------------------------|--------------|--------------------------|----------------------|
| Trace Organics Analysis | | | |
| F1 (C6-C10) | VOL-91- 5010 | MOE E3421 | (P&T)GC/FID |
| F1 (C6 to C10) minus BTEX | VOL-91-5010 | MOE PHC-E3421 | P&T GC/FID |
| Dichlorodifluoromethane | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Vinyl Chloride | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Bromomethane | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Trichlorofluoromethane | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Acetone | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| 1,1-Dichloroethylene | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Methylene Chloride | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| trans- 1,2-Dichloroethylene | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Methyl tert-butyl ether | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| 1,1-Dichloroethane | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Methyl Ethyl Ketone | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| cis- 1,2-Dichloroethylene | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Chloroform | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| 1,2-Dichloroethane | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| 1,1,1-Trichloroethane | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Carbon Tetrachloride | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Benzene | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| 1,2-Dichloropropane | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Trichloroethylene | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Bromodichloromethane | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Methyl Isobutyl Ketone | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| 1,1,2-Trichloroethane | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Toluene | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Dibromochloromethane | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Ethylene Dibromide | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Tetrachloroethylene | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| 1,1,1,2-Tetrachloroethane | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Chlorobenzene | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Ethylbenzene | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| m & p-Xylene | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Bromoform | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Styrene | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| 1,1,2,2-Tetrachloroethane | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| o-Xylene | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| 1,3-Dichlorobenzene | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| 1,4-Dichlorobenzene | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| 1,2-Dichlorobenzene | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| 1,3-Dichloropropene | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Xylene Mixture | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| n-Hexane | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Toluene-d8 | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| 4-Bromofluorobenzene | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |



CLIENT NAME: SNC LAVALIN INC
235 LESMILL ROAD
TORONTO, ON M3B 2V1
(416) 679-6000

ATTENTION TO: Robert Mitzakov

PROJECT: City of Brampton - 665125

AGAT WORK ORDER: 19T533749

TRACE ORGANICS REVIEWED BY: Neli Popnikolova, Senior Chemist

WATER ANALYSIS REVIEWED BY: Jacky Zhu, Spectroscopy Technician

DATE REPORTED: Oct 29, 2019

PAGES (INCLUDING COVER): 14

VERSION*: 2

Should you require any information regarding this analysis please contact your client services representative at (905) 712-5100

*NOTES

VERSION 2: Complete report issued on October 29, 2019.

All samples will be disposed of within 30 days following analysis. Please contact the lab if you require additional sample storage time.



Certificate of Analysis

AGAT WORK ORDER: 19T533749

PROJECT: City of Brampton - 665125

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<http://www.agatlabs.com>

CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Robert Mitzakov

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - PAHs (Water)

DATE RECEIVED: 2019-10-22

DATE REPORTED: 2019-10-29

| Parameter | | Unit | G / S | RDL | 640953 |
|----------------------------|------|-------------------|-------|-------|--------|
| SAMPLE DESCRIPTION: MW-74 | | | | | |
| SAMPLE TYPE: Water | | | | | |
| DATE SAMPLED: 2019-10-22 | | | | | |
| Naphthalene | µg/L | 11 | 0.20 | <0.20 | |
| Acenaphthylene | µg/L | 1 | 0.20 | <0.20 | |
| Acenaphthene | µg/L | 4.1 | 0.20 | <0.20 | |
| Fluorene | µg/L | 120 | 0.20 | <0.20 | |
| Phenanthrene | µg/L | 1 | 0.10 | <0.10 | |
| Anthracene | µg/L | 1 | 0.10 | <0.10 | |
| Fluoranthene | µg/L | 0.41 | 0.20 | <0.20 | |
| Pyrene | µg/L | 4.1 | 0.20 | <0.20 | |
| Benz(a)anthracene | µg/L | 1 | 0.20 | <0.20 | |
| Chrysene | µg/L | 0.1 | 0.10 | <0.10 | |
| Benzo(b)fluoranthene | µg/L | 0.1 | 0.10 | <0.10 | |
| Benzo(k)fluoranthene | µg/L | 0.1 | 0.10 | <0.10 | |
| Benzo(a)pyrene | µg/L | 0.01 | 0.01 | <0.01 | |
| Indeno(1,2,3-cd)pyrene | µg/L | 0.2 | 0.20 | <0.20 | |
| Dibenz(a,h)anthracene | µg/L | 0.2 | 0.20 | <0.20 | |
| Benzo(g,h,i)perylene | µg/L | 0.2 | 0.20 | <0.20 | |
| 2-and 1-methyl Naphthalene | µg/L | 3.2 | 0.20 | <0.20 | |
| Surrogate | Unit | Acceptable Limits | | | |
| Chrysene-d12 | % | 50-140 | 106 | | |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 8: Generic Site Condition Standards for Use within 30 m of a Water Body in a Potable Ground Water Condition - Ground Water - All Types of Property Uses
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.

640953 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:



Certificate of Analysis

AGAT WORK ORDER: 19T533749

PROJECT: City of Brampton - 665125

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<http://www.agatlabs.com>

CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Robert Mitzakov

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - PHCs F1 - F4 (-BTEX) (Water)

DATE RECEIVED: 2019-10-22

DATE REPORTED: 2019-10-29

| Parameter | Unit | SAMPLE DESCRIPTION: | | MW-75 | MW-755 | Field Blank |
|--------------------------------|------|---------------------|-----|------------|------------|-------------|
| | | G / S | RDL | 2019-10-22 | 2019-10-22 | 2019-10-22 |
| F1 (C6 - C10) | µg/L | | 25 | <25 | <25 | <25 |
| F1 (C6 to C10) minus BTEX | µg/L | 420 | 25 | <25 | <25 | <25 |
| F2 (C10 to C16) | µg/L | 150 | 100 | <100 | <100 | <100 |
| F3 (C16 to C34) | µg/L | 500 | 100 | <100 | <100 | <100 |
| F4 (C34 to C50) | µg/L | 500 | 100 | <100 | <100 | <100 |
| Gravimetric Heavy Hydrocarbons | µg/L | 500 | 500 | NA | NA | NA |
| Surrogate | Unit | Acceptable Limits | | | | |
| Terphenyl | % | 60-140 | | 104 | 98 | 103 |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 8: Generic Site Condition Standards for Use within 30 m of a Water Body in a Potable Ground Water Condition - Ground Water - All Types of Property Uses

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.

640955-640960

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 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 indicated 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 contribution.

This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.

nC6 and nC10 response factors are within 30% of Toluene response factor.

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.

Fractions 1-4 are quantified with the contribution of PAHs. Under Ontario Regulation 153, results are considered valid without determining the PAH contribution if not requested by the client.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 19T533749

PROJECT: City of Brampton - 665125

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CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Robert Mitzakov

SAMPLING SITE:

SAMPLED BY:

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

DATE RECEIVED: 2019-10-22

DATE REPORTED: 2019-10-29

| SAMPLE DESCRIPTION: | | MW-74 | | |
|-----------------------------------|------|-------------------|-----|--------|
| SAMPLE TYPE: | | Water | | |
| DATE SAMPLED: | | 2019-10-22 | | |
| Parameter | Unit | G / S | RDL | 640953 |
| F1 (C6-C10) | µg/L | | 25 | <25 |
| F1 (C6 to C10) minus BTEX | µg/L | 420 | 25 | <25 |
| F2 (C10 to C16) | µg/L | 150 | 100 | <100 |
| F2 (C10 to C16) minus Naphthalene | µg/L | | 100 | <100 |
| F3 (C16 to C34) | µg/L | 500 | 100 | <100 |
| F3 (C16 to C34) minus PAHs | µg/L | | 100 | <100 |
| F4 (C34 to C50) | µg/L | 500 | 100 | <100 |
| Gravimetric Heavy Hydrocarbons | µg/L | 500 | 500 | NA |
| Surrogate | Unit | Acceptable Limits | | |
| Terphenyl | % | 60-140 | | 106 |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 8: Generic Site Condition Standards for Use within 30 m of a Water Body in a Potable Ground Water Condition - Ground Water - All Types of Property Uses

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.

640953

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 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:



Certificate of Analysis

AGAT WORK ORDER: 19T533749

PROJECT: City of Brampton - 665125

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CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Robert Mitzakov

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - VOCs (Water)

DATE RECEIVED: 2019-10-22

DATE REPORTED: 2019-10-29

| Parameter | Unit | SAMPLE DESCRIPTION: | | MW-74 | MW-75 | MW-755 | Field Blank |
|-----------------------------|------|---------------------|------|------------|------------|------------|-------------|
| | | SAMPLE TYPE: | | Water | Water | Water | Water |
| | | DATE SAMPLED: | | 2019-10-22 | 2019-10-22 | 2019-10-22 | 2019-10-22 |
| | | G / S | RDL | 640953 | 640955 | 640959 | 640960 |
| Dichlorodifluoromethane | µg/L | 590 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Vinyl Chloride | µg/L | 0.5 | 0.17 | <0.17 | <0.17 | <0.17 | <0.17 |
| Bromomethane | µg/L | 0.89 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Trichlorofluoromethane | µg/L | 150 | 0.40 | <0.40 | <0.40 | <0.40 | <0.40 |
| Acetone | µg/L | 2700 | 1.0 | <1.0 | 190 | 230 | <1.0 |
| 1,1-Dichloroethylene | µg/L | 1.6 | 0.30 | <0.30 | <0.30 | <0.30 | <0.30 |
| Methylene Chloride | µg/L | 50 | 0.30 | <0.30 | <0.30 | <0.30 | <0.30 |
| trans- 1,2-Dichloroethylene | µg/L | 1.6 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Methyl tert-butyl ether | µg/L | 15 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| 1,1-Dichloroethane | µg/L | 5 | 0.30 | <0.30 | <0.30 | <0.30 | <0.30 |
| Methyl Ethyl Ketone | µg/L | 1800 | 1.0 | <1.0 | 9.7 | 12 | <1.0 |
| cis- 1,2-Dichloroethylene | µg/L | 1.6 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Chloroform | µg/L | 2.4 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| 1,2-Dichloroethane | µg/L | 1.6 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| 1,1,1-Trichloroethane | µg/L | 200 | 0.30 | <0.30 | <0.30 | <0.30 | <0.30 |
| Carbon Tetrachloride | µg/L | 0.79 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Benzene | µg/L | 5 | 0.20 | <0.20 | 1.8 | 2.2 | <0.20 |
| 1,2-Dichloropropane | µg/L | 5 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Trichloroethylene | µg/L | 1.6 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Bromodichloromethane | µg/L | 16 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Methyl Isobutyl Ketone | µg/L | 640 | 1.0 | <1.0 | 1.2 | 1.3 | <1.0 |
| 1,1,2-Trichloroethane | µg/L | 4.7 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Toluene | µg/L | 22 | 0.20 | <0.20 | 1.9 | 1.7 | 0.31 |
| Dibromochloromethane | µg/L | 25 | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| Ethylene Dibromide | µg/L | 0.2 | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| Tetrachloroethylene | µg/L | 1.6 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| 1,1,1,2-Tetrachloroethane | µg/L | 1.1 | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| Chlorobenzene | µg/L | 30 | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| Ethylbenzene | µg/L | 2.4 | 0.10 | <0.10 | 0.23 | 0.22 | <0.10 |
| m & p-Xylene | µg/L | | 0.20 | <0.20 | 0.33 | 0.31 | <0.20 |

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 19T533749

PROJECT: City of Brampton - 665125

5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
TEL (905)712-5100
FAX (905)712-5122
<http://www.agatlabs.com>

CLIENT NAME: SNC LAVALIN INC

ATTENTION TO: Robert Mitzakov

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - VOCs (Water)

DATE RECEIVED: 2019-10-22

DATE REPORTED: 2019-10-29

| Parameter | Unit | SAMPLE DESCRIPTION: | | MW-74 | MW-75 | MW-755 | Field Blank |
|---------------------------|------------|---------------------|------|------------|------------|------------|-------------|
| | | SAMPLE TYPE: | | Water | Water | Water | Water |
| | | DATE SAMPLED: | | 2019-10-22 | 2019-10-22 | 2019-10-22 | 2019-10-22 |
| | | G / S | RDL | 640953 | 640955 | 640959 | 640960 |
| Bromoform | µg/L | 25 | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| Styrene | µg/L | 5.4 | 0.10 | <0.10 | 0.98 | 1.0 | <0.10 |
| 1,1,2,2-Tetrachloroethane | µg/L | 1 | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| o-Xylene | µg/L | | 0.10 | <0.10 | 0.23 | 0.23 | <0.10 |
| 1,3-Dichlorobenzene | µg/L | 59 | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| 1,4-Dichlorobenzene | µg/L | 1 | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| 1,2-Dichlorobenzene | µg/L | 3 | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| 1,3-Dichloropropene | µg/L | 0.5 | 0.30 | <0.30 | <0.30 | <0.30 | <0.30 |
| Xylene Mixture | µg/L | 300 | 0.20 | <0.20 | 0.56 | 0.54 | <0.20 |
| n-Hexane | µg/L | 51 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Surrogate | Unit | Acceptable Limits | | | | | |
| Toluene-d8 | % Recovery | 50-140 | | 90 | 103 | 103 | 105 |
| 4-Bromofluorobenzene | % Recovery | 50-140 | | 87 | 96 | 99 | 88 |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 8: Generic Site Condition Standards for Use within 30 m of a Water Body in a Potable Ground Water Condition - Ground Water - All Types of Property Uses
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.

640953-640960 Xylenes total is a calculated parameter. The calculated value is the sum of m&p-Xylene and 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:



Certificate of Analysis

AGAT WORK ORDER: 19T533749
PROJECT: City of Brampton - 665125

5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
TEL (905)712-5100
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<http://www.agatlabs.com>

CLIENT NAME: SNC LAVALIN INC
SAMPLING SITE:

ATTENTION TO: Robert Mitzakov
SAMPLED BY:

O. Reg. 153(511) - Metals & Inorganics (Water)

DATE RECEIVED: 2019-10-22

DATE REPORTED: 2019-10-29

| Parameter | Unit | SAMPLE DESCRIPTION: MW-74 | | |
|-------------------------|----------|---------------------------|------|--------|
| | | G / S | RDL | 640953 |
| Antimony | µg/L | 6 | 1.0 | <1.0 |
| Arsenic | µg/L | 25 | 1.0 | 1.0 |
| Barium | µg/L | 1000 | 2.0 | 114 |
| Beryllium | µg/L | 4 | 0.5 | <0.5 |
| Boron | µg/L | 5000 | 10.0 | 37.2 |
| Cadmium | µg/L | 2.1 | 0.2 | <0.2 |
| Chromium | µg/L | 50 | 2.0 | <2.0 |
| Cobalt | µg/L | 3.8 | 0.5 | 0.8 |
| Copper | µg/L | 69 | 1.0 | <1.0 |
| Lead | µg/L | 10 | 0.5 | <0.5 |
| Molybdenum | µg/L | 70 | 0.5 | 2.5 |
| Nickel | µg/L | 100 | 1.0 | 1.5 |
| Selenium | µg/L | 10 | 1.0 | <1.0 |
| Silver | µg/L | 1.2 | 0.2 | <0.2 |
| Thallium | µg/L | 2 | 0.3 | <0.3 |
| Uranium | µg/L | 20 | 0.5 | 4.3 |
| Vanadium | µg/L | 6.2 | 0.4 | 0.7 |
| Zinc | µg/L | 890 | 5.0 | <5.0 |
| Mercury | µg/L | | 0.02 | <0.02 |
| Chromium VI | µg/L | 25 | 5 | <5 |
| Cyanide | µg/L | 52 | 2 | <2 |
| Sodium | µg/L | 490000 | 500 | 13400 |
| Chloride | µg/L | 790000 | 500 | 39000 |
| Electrical Conductivity | uS/cm | | 2 | 818 |
| pH | pH Units | | NA | 7.90 |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 8: Generic Site Condition Standards for Use within 30 m of a Water Body in a Potable Ground Water Condition - Ground Water - All Types of Property Uses

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.

640953 Elevated RDL indicates the degree of sample dilution prior to the analysis in order to keep analytes within the calibration range of the instrument and to reduce matrix interference.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:

Quality Assurance

CLIENT NAME: SNC LAVALIN INC
 PROJECT: City of Brampton - 665125
 SAMPLING SITE:

AGAT WORK ORDER: 19T533749
 ATTENTION TO: Robert Mitzakov
 SAMPLED BY:

| Trace Organics Analysis | | | | | | | | | | | | | | |
|-------------------------|-------|-----------|-----------|--------|-----|----------------|--------------|--------------------|-------|----------|--------------------|-------|--------------|-------------------|
| RPT Date: Oct 29, 2019 | | | DUPLICATE | | | | Method Blank | REFERENCE MATERIAL | | | METHOD BLANK SPIKE | | MATRIX SPIKE | |
| PARAMETER | Batch | Sample Id | Dup #1 | Dup #2 | RPD | Measured Value | | Acceptable Limits | | Recovery | Acceptable Limits | | Recovery | Acceptable Limits |
| | | | | | | | Lower | Upper | Lower | | Upper | Lower | | Upper |

O. Reg. 153(511) - PAHs (Water)

| | | | | | | | | | | | | | | | |
|------------------------|--|----|--------|--------|----|--------|------|-----|------|------|-----|------|------|-----|------|
| Naphthalene | | TW | < 0.20 | < 0.20 | NA | < 0.20 | 104% | 50% | 140% | 83% | 50% | 140% | 80% | 50% | 140% |
| Acenaphthylene | | TW | < 0.20 | < 0.20 | NA | < 0.20 | 102% | 50% | 140% | 83% | 50% | 140% | 78% | 50% | 140% |
| Acenaphthene | | TW | < 0.20 | < 0.20 | NA | < 0.20 | 101% | 50% | 140% | 81% | 50% | 140% | 75% | 50% | 140% |
| Fluorene | | TW | < 0.20 | < 0.20 | NA | < 0.20 | 98% | 50% | 140% | 82% | 50% | 140% | 77% | 50% | 140% |
| Phenanthrene | | TW | < 0.10 | < 0.10 | NA | < 0.10 | 82% | 50% | 140% | 73% | 50% | 140% | 74% | 50% | 140% |
| Anthracene | | TW | < 0.10 | < 0.10 | NA | < 0.10 | 107% | 50% | 140% | 84% | 50% | 140% | 82% | 50% | 140% |
| Fluoranthene | | TW | < 0.20 | < 0.20 | NA | < 0.20 | 97% | 50% | 140% | 74% | 50% | 140% | 71% | 50% | 140% |
| Pyrene | | TW | < 0.20 | < 0.20 | NA | < 0.20 | 97% | 50% | 140% | 71% | 50% | 140% | 77% | 50% | 140% |
| Benz(a)anthracene | | TW | < 0.20 | < 0.20 | NA | < 0.20 | 81% | 50% | 140% | 70% | 50% | 140% | 78% | 50% | 140% |
| Chrysene | | TW | < 0.10 | < 0.10 | NA | < 0.10 | 104% | 50% | 140% | 75% | 50% | 140% | 78% | 50% | 140% |
| Benzo(b)fluoranthene | | TW | < 0.10 | < 0.10 | NA | < 0.10 | 88% | 50% | 140% | 89% | 50% | 140% | 75% | 50% | 140% |
| Benzo(k)fluoranthene | | TW | < 0.10 | < 0.10 | NA | < 0.10 | 99% | 50% | 140% | 113% | 50% | 140% | 92% | 50% | 140% |
| Benzo(a)pyrene | | TW | < 0.01 | < 0.01 | NA | < 0.01 | 105% | 50% | 140% | 83% | 50% | 140% | 102% | 50% | 140% |
| Indeno(1,2,3-cd)pyrene | | TW | < 0.20 | < 0.20 | NA | < 0.20 | 88% | 50% | 140% | 71% | 50% | 140% | 82% | 50% | 140% |
| Dibenz(a,h)anthracene | | TW | < 0.20 | < 0.20 | NA | < 0.20 | 92% | 50% | 140% | 98% | 50% | 140% | 93% | 50% | 140% |
| Benzo(g,h,i)perylene | | TW | < 0.20 | < 0.20 | NA | < 0.20 | 94% | 50% | 140% | 100% | 50% | 140% | 102% | 50% | 140% |

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

| | | | | | | | | | | | | | | | |
|-----------------|--------|----|-------|-------|----|-------|------|-----|------|------|-----|------|------|-----|------|
| F1 (C6-C10) | 627432 | | < 25 | < 25 | NA | < 25 | 104% | 60% | 140% | 110% | 60% | 140% | 92% | 60% | 140% |
| F2 (C10 to C16) | | TW | < 100 | < 100 | NA | < 100 | 99% | 60% | 140% | 90% | 60% | 140% | 92% | 60% | 140% |
| F3 (C16 to C34) | | TW | < 100 | < 100 | NA | < 100 | 110% | 60% | 140% | 107% | 60% | 140% | 87% | 60% | 140% |
| F4 (C34 to C50) | | TW | < 100 | < 100 | NA | < 100 | 111% | 60% | 140% | 84% | 60% | 140% | 119% | 60% | 140% |

O. Reg. 153(511) - VOCs (Water)

| | | | | | | | | | | | | | | | |
|-----------------------------|--------|--------|--------|--------|----|--------|------|-----|------|------|-----|------|------|-----|------|
| Dichlorodifluoromethane | 640960 | 640960 | < 0.20 | < 0.20 | NA | < 0.20 | 88% | 50% | 140% | 84% | 50% | 140% | 89% | 50% | 140% |
| Vinyl Chloride | 640960 | 640960 | < 0.17 | < 0.17 | NA | < 0.17 | 85% | 50% | 140% | 110% | 50% | 140% | 107% | 50% | 140% |
| Bromomethane | 640960 | 640960 | < 0.20 | < 0.20 | NA | < 0.20 | 86% | 50% | 140% | 96% | 50% | 140% | 87% | 50% | 140% |
| Trichlorofluoromethane | 640960 | 640960 | < 0.40 | < 0.40 | NA | < 0.40 | 91% | 50% | 140% | 105% | 50% | 140% | 106% | 50% | 140% |
| Acetone | 640960 | 640960 | < 1.0 | < 1.0 | NA | < 1.0 | 107% | 50% | 140% | 104% | 50% | 140% | 118% | 50% | 140% |
| 1,1-Dichloroethylene | 640960 | 640960 | < 0.30 | < 0.30 | NA | < 0.30 | 79% | 50% | 140% | 83% | 60% | 130% | 92% | 50% | 140% |
| Methylene Chloride | 640960 | 640960 | < 0.30 | < 0.30 | NA | < 0.30 | 90% | 50% | 140% | 107% | 60% | 130% | 90% | 50% | 140% |
| trans- 1,2-Dichloroethylene | 640960 | 640960 | < 0.20 | < 0.20 | NA | < 0.20 | 79% | 50% | 140% | 85% | 60% | 130% | 79% | 50% | 140% |
| Methyl tert-butyl ether | 640960 | 640960 | < 0.20 | < 0.20 | NA | < 0.20 | 79% | 50% | 140% | 76% | 60% | 130% | 94% | 50% | 140% |
| 1,1-Dichloroethane | 640960 | 640960 | < 0.30 | < 0.30 | NA | < 0.30 | 84% | 50% | 140% | 89% | 60% | 130% | 96% | 50% | 140% |
| Methyl Ethyl Ketone | 640960 | 640960 | < 1.0 | < 1.0 | NA | < 1.0 | 82% | 50% | 140% | 95% | 50% | 140% | 99% | 50% | 140% |
| cis- 1,2-Dichloroethylene | 640960 | 640960 | < 0.20 | < 0.20 | NA | < 0.20 | 97% | 50% | 140% | 92% | 60% | 130% | 97% | 50% | 140% |
| Chloroform | 640960 | 640960 | < 0.20 | < 0.20 | NA | < 0.20 | 102% | 50% | 140% | 97% | 60% | 130% | 104% | 50% | 140% |
| 1,2-Dichloroethane | 640960 | 640960 | < 0.20 | < 0.20 | NA | < 0.20 | 110% | 50% | 140% | 113% | 60% | 130% | 117% | 50% | 140% |
| 1,1,1-Trichloroethane | 640960 | 640960 | < 0.30 | < 0.30 | NA | < 0.30 | 94% | 50% | 140% | 81% | 60% | 130% | 95% | 50% | 140% |
| Carbon Tetrachloride | 640960 | 640960 | < 0.20 | < 0.20 | NA | < 0.20 | 81% | 50% | 140% | 86% | 60% | 130% | 81% | 50% | 140% |

Quality Assurance

 CLIENT NAME: SNC LAVALIN INC
 PROJECT: City of Brampton - 665125
 SAMPLING SITE:

 AGAT WORK ORDER: 19T533749
 ATTENTION TO: Robert Mitzakov
 SAMPLED BY:

Trace Organics Analysis (Continued)

| RPT Date: Oct 29, 2019 | | | DUPLICATE | | | Method Blank | REFERENCE MATERIAL | | | METHOD BLANK SPIKE | | | MATRIX SPIKE | | |
|---------------------------|--------|-----------|-----------|--------|-----|--------------|--------------------|-------------------|-------|--------------------|-------------------|-------|--------------|-------------------|-------|
| PARAMETER | Batch | Sample Id | Dup #1 | Dup #2 | RPD | | Measured Value | Acceptable Limits | | Recovery | Acceptable Limits | | Recovery | Acceptable Limits | |
| | | | | | | | | Lower | Upper | | Lower | Upper | | Lower | Upper |
| Benzene | 640960 | 640960 | < 0.20 | < 0.20 | NA | < 0.20 | 101% | 50% | 140% | 97% | 60% | 130% | 101% | 50% | 140% |
| 1,2-Dichloropropane | 640960 | 640960 | < 0.20 | < 0.20 | NA | < 0.20 | 105% | 50% | 140% | 93% | 60% | 130% | 82% | 50% | 140% |
| Trichloroethylene | 640960 | 640960 | < 0.20 | < 0.20 | NA | < 0.20 | 105% | 50% | 140% | 111% | 60% | 130% | 103% | 50% | 140% |
| Bromodichloromethane | 640960 | 640960 | < 0.20 | < 0.20 | NA | < 0.20 | 90% | 50% | 140% | 108% | 60% | 130% | 90% | 50% | 140% |
| Methyl Isobutyl Ketone | 640960 | 640960 | < 1.0 | < 1.0 | NA | < 1.0 | 100% | 50% | 140% | 113% | 50% | 140% | 115% | 50% | 140% |
| 1,1,2-Trichloroethane | 640960 | 640960 | < 0.20 | < 0.20 | NA | < 0.20 | 119% | 50% | 140% | 98% | 60% | 130% | 111% | 50% | 140% |
| Toluene | 640960 | 640960 | 0.31 | 0.28 | NA | < 0.20 | 82% | 50% | 140% | 117% | 60% | 130% | 114% | 50% | 140% |
| Dibromochloromethane | 640960 | 640960 | < 0.10 | < 0.10 | NA | < 0.10 | 97% | 50% | 140% | 118% | 60% | 130% | 110% | 50% | 140% |
| Ethylene Dibromide | 640960 | 640960 | < 0.10 | < 0.10 | NA | < 0.10 | 115% | 50% | 140% | 105% | 60% | 130% | 105% | 50% | 140% |
| Tetrachloroethylene | 640960 | 640960 | < 0.20 | < 0.20 | NA | < 0.20 | 73% | 50% | 140% | 112% | 60% | 130% | 109% | 50% | 140% |
| 1,1,1,2-Tetrachloroethane | 640960 | 640960 | < 0.10 | < 0.10 | NA | < 0.10 | 87% | 50% | 140% | 117% | 60% | 130% | 114% | 50% | 140% |
| Chlorobenzene | 640960 | 640960 | < 0.10 | < 0.10 | NA | < 0.10 | 89% | 50% | 140% | 97% | 60% | 130% | 115% | 50% | 140% |
| Ethylbenzene | 640960 | 640960 | < 0.10 | < 0.10 | NA | < 0.10 | 75% | 50% | 140% | 109% | 60% | 130% | 107% | 50% | 140% |
| m & p-Xylene | 640960 | 640960 | < 0.20 | < 0.20 | NA | < 0.20 | 79% | 50% | 140% | 113% | 60% | 130% | 112% | 50% | 140% |
| Bromoform | 640960 | 640960 | < 0.10 | < 0.10 | NA | < 0.10 | 108% | 50% | 140% | 93% | 60% | 130% | 115% | 50% | 140% |
| Styrene | 640960 | 640960 | < 0.10 | < 0.10 | NA | < 0.10 | 79% | 50% | 140% | 106% | 60% | 130% | 104% | 50% | 140% |
| 1,1,2,2-Tetrachloroethane | 640960 | 640960 | < 0.10 | < 0.10 | NA | < 0.10 | 101% | 50% | 140% | 106% | 60% | 130% | 99% | 50% | 140% |
| o-Xylene | 640960 | 640960 | < 0.10 | < 0.10 | NA | < 0.10 | 87% | 50% | 140% | 119% | 60% | 130% | 117% | 50% | 140% |
| 1,3-Dichlorobenzene | 640960 | 640960 | < 0.10 | < 0.10 | NA | < 0.10 | 99% | 50% | 140% | 116% | 60% | 130% | 88% | 50% | 140% |
| 1,4-Dichlorobenzene | 640960 | 640960 | < 0.10 | < 0.10 | NA | < 0.10 | 100% | 50% | 140% | 108% | 60% | 130% | 90% | 50% | 140% |
| 1,2-Dichlorobenzene | 640960 | 640960 | < 0.10 | < 0.10 | NA | < 0.10 | 105% | 50% | 140% | 90% | 60% | 130% | 95% | 50% | 140% |
| 1,3-Dichloropropene | 640960 | 640960 | < 0.30 | < 0.30 | NA | < 0.30 | 90% | 50% | 140% | 90% | 60% | 130% | 84% | 50% | 140% |
| n-Hexane | 640960 | 640960 | < 0.20 | < 0.20 | NA | < 0.20 | 93% | 50% | 140% | 103% | 60% | 130% | 95% | 50% | 140% |

Comments: Tap water analysis has been performed as QC sample testing for duplicate and matrix spike due to insufficient sample volume.
 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).

Certified By:



Quality Assurance

CLIENT NAME: SNC LAVALIN INC
 PROJECT: City of Brampton - 665125
 SAMPLING SITE:

AGAT WORK ORDER: 19T533749
 ATTENTION TO: Robert Mitzakov
 SAMPLED BY:

| Water Analysis | | | | | | | | | | | | | | | |
|------------------------|-------|-----------|-----------|--------|-----|----------------|--------------|--------------------|-------|----------|--------------------|-------|--------------|-------------------|-------|
| RPT Date: Oct 29, 2019 | | | DUPLICATE | | | | Method Blank | REFERENCE MATERIAL | | | METHOD BLANK SPIKE | | MATRIX SPIKE | | |
| PARAMETER | Batch | Sample Id | Dup #1 | Dup #2 | RPD | Measured Value | | Acceptable Limits | | Recovery | Acceptable Limits | | Recovery | Acceptable Limits | |
| | | | | | | | | Lower | Upper | | Lower | Upper | | Lower | Upper |

O. Reg. 153(511) - Metals & Inorganics (Water)

| | | | | | | | | | | | | | | | |
|-------------------------|--------|--------|--------|--------|-------|--------|------|-----|------|------|-----|------|------|-----|------|
| Antimony | 641656 | | <5.0 | <5.0 | NA | < 1.0 | 101% | 70% | 130% | 92% | 80% | 120% | 93% | 70% | 130% |
| Arsenic | 641656 | | <5.0 | <5.0 | NA | < 1.0 | 93% | 70% | 130% | 94% | 80% | 120% | 100% | 70% | 130% |
| Barium | 641656 | | 22.7 | 21.7 | 4.5% | < 2.0 | 92% | 70% | 130% | 96% | 80% | 120% | 90% | 70% | 130% |
| Beryllium | 641656 | | <2.5 | <2.5 | NA | < 0.5 | 93% | 70% | 130% | 98% | 80% | 120% | 100% | 70% | 130% |
| Boron | 641656 | | 102 | 96.9 | 5.1% | < 10.0 | 99% | 70% | 130% | 103% | 80% | 120% | 107% | 70% | 130% |
| Cadmium | 641656 | | <1.0 | <1.0 | NA | < 0.2 | 99% | 70% | 130% | 101% | 80% | 120% | 113% | 70% | 130% |
| Chromium | 641656 | | <10.0 | <10.0 | NA | < 2.0 | 99% | 70% | 130% | 95% | 80% | 120% | 97% | 70% | 130% |
| Cobalt | 641656 | | <2.5 | <2.5 | NA | < 0.5 | 98% | 70% | 130% | 98% | 80% | 120% | 99% | 70% | 130% |
| Copper | 641656 | | <5.0 | <5.0 | NA | < 1.0 | 95% | 70% | 130% | 99% | 80% | 120% | 95% | 70% | 130% |
| Lead | 641656 | | <2.5 | <2.5 | NA | < 0.5 | 96% | 70% | 130% | 100% | 80% | 120% | 94% | 70% | 130% |
| Molybdenum | 641656 | | 2.7 | <2.5 | NA | < 0.5 | 99% | 70% | 130% | 99% | 80% | 120% | 100% | 70% | 130% |
| Nickel | 641656 | | <5.0 | <5.0 | NA | < 1.0 | 100% | 70% | 130% | 100% | 80% | 120% | 100% | 70% | 130% |
| Selenium | 641656 | | (-207) | (-167) | NA | < 1.0 | 100% | 70% | 130% | 98% | 80% | 120% | 106% | 70% | 130% |
| Silver | 641656 | | <1.0 | <1.0 | NA | < 0.2 | 99% | 70% | 130% | 108% | 80% | 120% | 105% | 70% | 130% |
| Thallium | 641656 | | <1.5 | <1.5 | NA | < 0.3 | 97% | 70% | 130% | 100% | 80% | 120% | 95% | 70% | 130% |
| Uranium | 641656 | | <2.5 | <2.5 | NA | < 0.5 | 91% | 70% | 130% | 95% | 80% | 120% | 93% | 70% | 130% |
| Vanadium | 641656 | | 52.4 | 44.0 | 17.4% | < 0.4 | 94% | 70% | 130% | 92% | 80% | 120% | 96% | 70% | 130% |
| Zinc | 641656 | | <25.0 | <25.0 | NA | < 5.0 | 100% | 70% | 130% | 98% | 80% | 120% | 102% | 70% | 130% |
| Mercury | 640953 | 640953 | <0.02 | <0.02 | NA | < 0.02 | 99% | 70% | 130% | 101% | 80% | 120% | 105% | 70% | 130% |
| Chromium VI | 630821 | | <5 | <5 | NA | < 5 | 100% | 70% | 130% | 101% | 80% | 120% | 98% | 70% | 130% |
| Cyanide | 647384 | | <2 | <2 | NA | < 2 | 98% | 70% | 130% | 104% | 80% | 120% | 100% | 70% | 130% |
| Sodium | 642901 | | 8600 | 8750 | 1.7% | < 500 | 95% | 70% | 130% | 95% | 80% | 120% | 96% | 70% | 130% |
| Chloride | 642782 | | 295000 | 294000 | 0.3% | < 100 | 92% | 70% | 130% | 103% | 70% | 130% | 100% | 70% | 130% |
| Electrical Conductivity | 639002 | | 283 | 283 | 0.0% | < 2 | 96% | 90% | 110% | | | | | | |
| pH | 639002 | | 7.63 | 7.60 | 0.4% | NA | 100% | 90% | 110% | | | | | | |

Comments: NA signifies Not Applicable.

Duplicate Qualifier: As the measured result approaches the RL, the uncertainty associated with the value increases dramatically, thus duplicate acceptance limits apply only where the average of the two duplicates is greater than five times the RL.

Certified By: _____



Method Summary

CLIENT NAME: SNC LAVALIN INC
PROJECT: City of Brampton - 665125
SAMPLING SITE:

AGAT WORK ORDER: 19T533749
ATTENTION TO: Robert Mitzakov
SAMPLED BY:

| PARAMETER | AGAT S.O.P | LITERATURE REFERENCE | ANALYTICAL TECHNIQUE |
|-----------------------------------|--------------|--------------------------|----------------------|
| Trace Organics Analysis | | | |
| Naphthalene | ORG-91-5105 | EPA SW-846 3510 & 8270D | GC/MS |
| Acenaphthylene | ORG-91-5105 | EPA SW-846 3510 & 8270D | GC/MS |
| Acenaphthene | ORG-91-5105 | EPA SW-846 3510 & 8270D | GC/MS |
| Fluorene | ORG-91-5105 | EPA SW-846 3510 & 8270D | GC/MS |
| Phenanthrene | ORG-91-5105 | EPA SW-846 3510 & 8270D | GC/MS |
| Anthracene | ORG-91-5105 | EPA SW-846 3510 & 8270D | GC/MS |
| Fluoranthene | ORG-91-5105 | EPA SW-846 3510 & 8270D | GC/MS |
| Pyrene | ORG-91-5105 | EPA SW-846 3510 & 8270D | GC/MS |
| Benz(a)anthracene | ORG-91-5105 | EPA SW-846 3510 & 8270D | GC/MS |
| Chrysene | ORG-91-5105 | EPA SW-846 3510 & 8270D | GC/MS |
| Benzo(b)fluoranthene | ORG-91-5105 | EPA SW-846 3510 & 8270D | GC/MS |
| Benzo(k)fluoranthene | ORG-91-5105 | EPA SW-846 3510 & 8270D | GC/MS |
| Benzo(a)pyrene | ORG-91-5105 | EPA SW-846 3510 & 8270D | GC/MS |
| Indeno(1,2,3-cd)pyrene | ORG-91-5105 | EPA SW-846 3510 & 8270D | GC/MS |
| Dibenz(a,h)anthracene | ORG-91-5105 | EPA SW-846 3510 & 8270D | GC/MS |
| Benzo(g,h,i)perylene | ORG-91-5105 | EPA SW-846 3510 & 8270D | GC/MS |
| 2-and 1-methyl Naphthalene | ORG-91-5105 | EPA SW-846 3510 & 8270D | GC/MS |
| Chrysene-d12 | ORG-91-5105 | EPA SW-846 3510 & 8270D | GC/MS |
| F1 (C6 - C10) | VOL-91- 5010 | MOE PHC E3421 | (P&T)GC/FID |
| F1 (C6 to C10) minus BTEX | VOL-91-5010 | MOE PHC E3421 | (P&T)GC/FID |
| F2 (C10 to C16) | VOL-91-5010 | MOE PHC E3421 | GC / FID |
| F3 (C16 to C34) | VOL-91-5010 | MOE PHC E3421 | GC / FID |
| F4 (C34 to C50) | VOL-91-5010 | MOE PHC E3421 | GC / FID |
| Gravimetric Heavy Hydrocarbons | VOL-91-5010 | MOE PHC E3421 | BALANCE |
| Terphenyl | VOL-91-5010 | | GC/FID |
| F1 (C6-C10) | VOL-91- 5010 | MOE PHC-E3421 | P&T GC/FID |
| F1 (C6 to C10) minus BTEX | VOL-91-5010 | MOE PHC E3421 | P&T GC/FID |
| F2 (C10 to C16) | VOL-91-5010 | MOE PHC E3421 | GC/FID |
| F2 (C10 to C16) minus Naphthalene | VOL-91-5010 | MOE PHC E3421 | GC/FID |
| F3 (C16 to C34) | VOL-91-5010 | MOE PHC E3421 | GC/FID |
| F3 (C16 to C34) minus PAHs | VOL-91-5010 | MOE PHC E3421 | GC/FID |
| F4 (C34 to C50) | VOL-91-5010 | MOE PHC E3421 | GC/FID |
| Dichlorodifluoromethane | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Vinyl Chloride | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Bromomethane | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Trichlorofluoromethane | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Acetone | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| 1,1-Dichloroethylene | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Methylene Chloride | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| trans- 1,2-Dichloroethylene | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Methyl tert-butyl ether | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| 1,1-Dichloroethane | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Methyl Ethyl Ketone | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| cis- 1,2-Dichloroethylene | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Chloroform | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| 1,2-Dichloroethane | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| 1,1,1-Trichloroethane | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Carbon Tetrachloride | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Benzene | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |

Method Summary

CLIENT NAME: SNC LAVALIN INC

AGAT WORK ORDER: 19T533749

PROJECT: City of Brampton - 665125

ATTENTION TO: Robert Mitzakov

SAMPLING SITE:

SAMPLED BY:

| PARAMETER | AGAT S.O.P | LITERATURE REFERENCE | ANALYTICAL TECHNIQUE |
|---------------------------|-------------|--------------------------|----------------------|
| 1,2-Dichloropropane | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Trichloroethylene | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Bromodichloromethane | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Methyl Isobutyl Ketone | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| 1,1,2-Trichloroethane | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Toluene | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Dibromochloromethane | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Ethylene Dibromide | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Tetrachloroethylene | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| 1,1,1,2-Tetrachloroethane | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Chlorobenzene | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Ethylbenzene | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| m & p-Xylene | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Bromoform | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Styrene | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| 1,1,2,2-Tetrachloroethane | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| o-Xylene | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| 1,3-Dichlorobenzene | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| 1,4-Dichlorobenzene | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| 1,2-Dichlorobenzene | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| 1,3-Dichloropropene | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Xylene Mixture | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| n-Hexane | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| Toluene-d8 | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |
| 4-Bromofluorobenzene | VOL-91-5001 | EPA SW-846 5030C & 8260D | (P&T)GC/MS |



Method Summary

CLIENT NAME: SNC LAVALIN INC
PROJECT: City of Brampton - 665125
SAMPLING SITE:

AGAT WORK ORDER: 19T533749
ATTENTION TO: Robert Mitzakov
SAMPLED BY:

| PARAMETER | AGAT S.O.P | LITERATURE REFERENCE | ANALYTICAL TECHNIQUE |
|-------------------------|--------------|--|-------------------------|
| Water Analysis | | | |
| Antimony | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Arsenic | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Barium | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Beryllium | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Boron | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Cadmium | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Chromium | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Cobalt | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Copper | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Lead | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Molybdenum | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Nickel | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Selenium | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Silver | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Thallium | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Uranium | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Vanadium | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Zinc | MET-93-6103 | EPA SW-846 6020A & 200.8 | ICP-MS |
| Mercury | MET-93-6100 | EPA SW 846 7470 & 245.1 | CVAAS |
| Chromium VI | INOR-93-6034 | SM 3500-Cr B | SPECTROPHOTOMETER |
| Cyanide | INOR-93-6052 | MOE METHOD CN- 3015 & SM 4500 CN- I | TECHNICON AUTO ANALYZER |
| Sodium | MET-93-6105 | EPA SW-846 6010C & 200.7 | ICP/OES |
| Chloride | INOR-93-6004 | SM 4110 B | ION CHROMATOGRAPH |
| Electrical Conductivity | INOR-93-6000 | SM 2510 B | PC TITRATE |
| pH | INOR-93-6000 | SM 4500-H+ B | PC TITRATE |

Laboratory Use Only

Work Order #: 19T533749

Cooler Quantity: _____
Arrival Temperatures: 8° 9° 8°

Custody Seal Intact: Yes No N/A

Notes: once

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

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: SNG-Lexlin
Contact: Robert Mitzkal
Address: 175 The West Mall, Toronto, ON M9Z 5K1
Phone: 416-877-XXXX Fax: 416-635-5882-5591
Reports to be sent to:
1. Email: Robert.Mitzkal@SngLexlin.com
2. Email: _____

Regulatory Requirements: No Regulatory Requirement

(Please check all applicable boxes)

Regulation 153/04
Table 3 Indicate One
 Ind/Com
 Res/Park
 Agriculture

Sewer Use
 Sanitary
 Storm
 MISA

Regulation 558
 CCME
 Prov. Water Quality Objectives (PWQO)
 Other

Soil Texture (Check One) Region _____ Indicate One
 Coarse
 Fine

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

Report Guideline on Certificate of Analysis
 Yes No

Project Information:

Project: City of Brampton - 665125
Site Location: 10910 Hwy 501, Brampton
Sampled By: Josy Paska
AGAT Quote #: _____ PO: 665125
Please note: If quotation number is not provided, client will be billed full price for analysis.

Invoice Information:

Bill To Same: Yes No

Company: SNG-Lexlin Inc
Contact: _____
Address: _____
Email: Payables@SngLexlin.com

Sample Matrix Legend

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

| Sample Identification | Date Sampled | Time Sampled | # of Containers | Sample Matrix | Comments/ Special Instructions | Y/N | O. Reg 153 | Field Filtered - Metals, Hg, CrVI | Potentially Hazardous or High Concentration (Y/N) |
|------------------------|------------------|--------------|-----------------|---------------|-----------------------------------|----------|--|-----------------------------------|---|
| MW-74 MW-74 | <u>Oct 22/19</u> | <u>12:00</u> | <u>13</u> | <u>G.W</u> | | <u>Y</u> | <input type="checkbox"/> All Metals <input type="checkbox"/> 153 Metals (excl. Hydrides) <input type="checkbox"/> Hydride Metals <input type="checkbox"/> 153 Metals (Incl. Hydrides) ORPs: <input type="checkbox"/> B-HWS <input type="checkbox"/> Cl <input type="checkbox"/> CN <input type="checkbox"/> Cr ⁶⁺ <input type="checkbox"/> EC <input type="checkbox"/> FOC <input type="checkbox"/> Hg <input type="checkbox"/> pH <input type="checkbox"/> SAR Full Metals Scan Regulation/Custom Metals Nutrients: <input type="checkbox"/> TP <input type="checkbox"/> NH ₃ <input type="checkbox"/> TKN <input type="checkbox"/> NO ₃ <input type="checkbox"/> NO ₂ <input type="checkbox"/> NO _x +NO ₂ Volatiles: <input type="checkbox"/> VOC <input type="checkbox"/> BTEX <input type="checkbox"/> THM PHCS F1 - F4 ABNS PAHs PCBs: <input type="checkbox"/> Total <input type="checkbox"/> Aroclors Organochlorine Pesticides TCI.P: <input type="checkbox"/> M&I <input type="checkbox"/> VOCs <input type="checkbox"/> ABNS <input type="checkbox"/> B(a)P <input type="checkbox"/> PCBs Sewer Use <u>Metals, Cyanide</u> <u>Hexavalent Chromium</u> <u>Mercury</u> <u>CCME FI - FI / BTEX / NO_x</u> <u>Vanadium Inorganics</u> | | |
| MW-75 | <u>✓</u> | <u>13:00</u> | <u>4</u> | <u>G.W</u> | <u>limited Recovery</u> | | | | |
| MW-755 | <u>✓</u> | <u>13:00</u> | <u>4</u> | <u>G.W</u> | <u>limited Recovery</u> | | | | |

| | | | | | |
|--|------------------------|--------------------|---|-----------------------|-------------------|
| Samples Relinquished By (Print Name and Sign): <u>Josy Paska</u> | Date: <u>Oct 22/19</u> | Time: <u>14:45</u> | Samples Received By (Print Name and Sign): <u>Simon</u> | Date: <u>19/10/22</u> | Time: <u>3:40</u> |
| 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 _____ of _____
No: **T096335**



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