Brampton Transit BUS MAINTENANCE & STORAGE FACILITY

Appendix K

Environmental Site Assessment: Phases 1 and 2

March 18, 2021



Prepared by







Phase One Environmental Site Assessment

10192 Highway 50, Brampton, Ontario

City of Brampton





FINAL – November 29, 2019

Internal Ref.: 665125



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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

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 Phase One Property is described as follows:

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.

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 14213-0276 (Parcel A1)



PIN 14213-0300 (Parcels A and B)

Year	Grant/Transfer/Lease				
1830	The Crown				
1830 to 1993	nd 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	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;
			2009	250 L hydraulic fluid to asphalt due to leak, cleaned up, contamination reported as not anticipated;
			2013	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. City of Brampton 665125 FINAL – November 29, 2019 © SNC-LAVALIN INC. 2019. ALL RIGHTS RESERVED. CONFIDENTIAL. 12



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 unplottable 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 unplottable 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	The Site appears to be used for agricultural purposes with no structures visible.			
A10117-68	Highway 50 is visible to the west of the Site. Several structures are located			
(Eiguro H 1)	immediately to the south of the Site (associated with southern portion of 10192			
(Figure II. I)	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	change to the surrounding properties was observed in the 2018 aerial photograph when compared to the one from 2015.
(Figure H.10)	

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	
Monarda didyma	Scarlet Beebalm	Plant	S3	1948-08-04	
Emydoidea blandingii	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.

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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.

<u>Spills</u>

No spills were observed during the Site inspection.

Air Emissions

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

<u>Odour</u>

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:

Year	Name of Owner	Description of Property Use	Property Use ¹	Other Observations from Aerial Photographs, Fire Insurance Plans, etc.
PT LT 12 CC	N 11 ND Toronto Gore;	designated as Part 5	on Plan 43R3	3140; City of Brampton
May 19, 1830	The Crown	Presumed undeveloped	Agricultural or other	No additional records available to asses property use
May 1830 to October 1831	James Durand	Presumed residential/ agricultural or undeveloped	Residential/ Agricultural or other	No additional records available to asses property use
October 1831 to April 1842	Andrew Mercer	Presumed residential/ agricultural or undeveloped	Residential/ Agricultural or other	No additional records available to asses property use
April 1842 to April 1857	Alexander Johnston	Presumed residential/ agricultural or undeveloped	Residential/ Agricultural or other	No additional records available to asses property use
April 1857 to December 1865	David Johnston	Presumed residential/ agricultural or undeveloped	Residential/ Agricultural or other	No additional records available to asses property use
December 1865 to September 1868	William Johnston	Presumed residential/ agricultural or undeveloped	Residential/ Agricultural or other	No additional records available to asses property use

PIN 14213-0276



Year	Name of Owner	Description of Property Use	Property Use¹	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 asses 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	
July 1959 to March 1993	Clarence Alexander Johnston	Agricultural	Residential/ Agricultural or other	Aerial photographs from 1960, 1968, 1976, 1985, 1994 and 2005 show agricultural fields with no structures visible.
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	The 2015 aerial photograph shows an area cleared/regraded at the northeast corner of the PIN.

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

PIN 14213-0300

Year	Name of Owner	Description of Property Use	Property Use¹	Other Observations from Aerial Photographs, Fire Insurance Plans, etc.			
PT LTS 11 City of Bran	PT LTS 11 AND 12, CON 11 ND, (Formerly TWP of Toronto Gore) Designated as PTS 2,3, 4 & 5 43R36614; City of Brampton						
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	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.
A, A1 and B)	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 34	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. Metal fabrication	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.
10 Cadetta Rd. (Approximately 226 m North/ Northwest of the Site)	N/A 34	Various businesses: registered waste for petroleum distillates, emulsified oils, waste oil and lubricants, and other specified inorganics. Metal fabrication	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.



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

Phase One Environmental Site Assessment 10192 Highway 50, Brampton, Ontario



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

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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.

Phase One Environmental Site Assessment 10192 Highway 50, Brampton, Ontario



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.

Phase One Environmental Site Assessment 10192 Highway 50, Brampton, Ontario

Closure 8

Prepared by:

Rebert litzon

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

Reviewed by:

ass

Abed Yassine, P.Geo. Senior Geoscientist

Environment & Geoscience Engineering, Design and Project Management

ROFES

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A. R. YASSINE

PRACTISING MEMBER

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City of Brampton 665125 FINAL - November 29, 2019



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".
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- 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



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

PCA No.	POTENTIAL CONTAMINATION ACTIVITY TYPE	DESCRIPTION
40	PESTICIDES (INCLUDING HERBICIDES, FUNGICIDES AND ANTI-FOULING AGENTS) MANUFACTURING, PROCESSIANG, BULK STORAGE AND LARGE-SCALE APPLICATIONS	HISTORICAL AND CURRENT ACTIVITIES ASSOCIATED WITH AGRICULTURE/FARMING THROUGHOUT THE SITE
30	IMPORTATION OF FILL MATERIAL OF UNKNOWN QUALITY	A LAYER OF CRUSHED STONE/AND ASPHALT PIECES IN THE NORTHEAST CORNER OF THE SITE
NA	NA	STORAGE OF FARM EQUIPMENT/MACHINERY IN THE METAL STORAGE SHED
PCA No.	POTENTIAL CONTAMINATION ACTIVITY TYPE	DESCRIPTION
NA	NA	PROPERTY LOCATED AT 9701 HIGHWAY 50 (UPGRADIENT OF INFERRED GROUNDWATER FLOW DIRECTION) HAS BEEN DOCUMENTED AS A WASTE GENERATOR AND SPILLS
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
NA	NA	ALONG NORTH PROPERTY BOUNDARY/NORTH WEST CORNER (WASTE GENERATORS)
34	METAL FABRICATION	ALONG NORTH PROPERTY BOUNDARY

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DN-SITE/OFF-SITE ACTIVITIES	PCA No.	POTENTIAL CONTAMINANTS OF CONCERN
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FARM EQUIPMENT/MACHINERY IN THE AGE SHED LOCATED AT THE SOUTH SITE	NA	BTEX, PHC F1-F4, VOCs AND PAHs
OCATED AT 9701 HIGHWAY 50 T OF INFERRED GROUNDWATER FLOW HAS BEEN DOCUMENTED AS A WASTE AND SPILLS	NA	BTEX, PHC F1-F4, VOCs, PAHs, AND METALS/ INORGANICS
FUEL HANDLING AND STORAGE SSOCIATED WITH A DYED DIESEL AST THE SOUTH OF THE METAL SHED ON DER OF THE PROPERTY HAVING DDRESS OF 10192 HIGHWAY 50	28	BTEX, PHC F1-F4, VOCs, PAHs, AND METALS/ INORGANICS
ROPERTIES (ALONG THE NORTH OUNDARY/ NORTH WEST CORNER OF ISTED AS WASTE GENERATORS	NA	BTEX, PHC F1-F4, VOCs, PAHs, AND METALS/ INORGANICS
ROPERTIES (ALONG NORTH PROPERTY OF THE SITE) INVOLVED IN THE NING OF METAL PRODUCTS	34	VOCs AND METALS/ INORGANICS



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Appendix A

Site Survey



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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 , 2019.

> Michele Pearson Ontario Land Surveyor

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33 JANE STREET, SECON ONTARIO, L6A O. : (289) 553- michelepearson@pearso	ID FLOOR, MAPLE 1S1 -5453 nandpearson.ca	P	P	PEAF PEAF
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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: Requested by: Eleanor Goolab Ecolog ERIS

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

61165



ENVIROSCAN Report

Opta Historical Environmental Services Enviroscan Terms and Conditions **Requested by:**



OPTA INFORMATION INTELLIGENCE

Project #: 20190508200 P.O. #: 665125

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

ТΜ **Opta Historical Environmental Services Enviroscan 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.

Disclaimer

Opta disclaims responsibility for any losses or damages of any kind whatsoever, whether consequential or other, however caused, incurred or suffered, arising directly or indirectly as a result of the services (which services include, but are not limited to, the preparation of the Report provided hereunder), including but not limited to, any losses or damages arising directly or indirectly from any breach of contract, fundamental or otherwise, from reliance on Opta Reports or from any tortious acts or omissions of Opta's agents, employees or representatives.

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

An SCM Company

www.optaintel.ca

F: 905.882.6300

Page: 4 Project Name: Johnston Transit Facility City of Brampton ENVIROSCAN Report

No Records Found

. enviroscan

OPTA INFORMATION INTELLIGENCE

Project #: 20190508200 P.O. #: 665125 Eleanor Goolab Date Completed: 05/15/2019 11:36:26

Requested by:

No Records Found



Chain of Title

CHAIN OF TITLE REPORT

Project #: Address: Legal Description:	20190508200 w/s Highway #50, Brampton Part lot 12, Con 11 ND Tor Gore as Part 5, 43R33140	_ Searched at: _ LRO #: _	Brampton 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	2 Deed	28 04 1842	Andrew Mercer	Alexander JOHNSTON
3770	Deed	03 04 1857	Alexander Johnston	David JOHNSTON
13953	B Deed	15 12 1865	David Johnston	William JOHNSTON
25	Deed	11 09 1868	William Johnston	David JOHNSTON
1228	B 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 #: Address: Legal Description:	20190508200 w/s Highway #50, Brampton Part lot 12, Con 11 ND Tor Gore as Part 5, 43R33140	Searched at: LRO #:	Brampton 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

N		PARCEL REGISTER (ABBREVIATED) FO	OR PROPERTY IDENTIFIER	
	LAND			PAGE 1 OF 1
Untario Ser	VICEUNIARIO REGISTRY			PREPARED FOR bertuccil
	OFFICE #	43 14213-0276	LT)	ON 2019/06/12 AT 14:57:53
	* CERTIF	IED IN ACCORDANCE WITH THE LAND TITLES ACT *	SUBJECT TO RESERVATIONS IN CROWN GRANT *	•

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

CAPACITY SHARE

ROWN

PROPERTY REMARKS:

ESTATE/QUALIFIER:

FEE SIMPLE LT CONVERSION QUALIFIED <u>RECENTLY:</u> DIVISION FROM 14213-0056

OWNERS' NAMES THE CORPORATION OF THE CITY OF BRAMPTON

REG. NUM.	DATE	INSTRUMENT TYPE	Amount	PARTIES FROM	PARTIES TO	CERT/ CHKD
** PRINTOUT	INCLUDES AL.	DOCUMENT TYPES AND	DELETED INSTRUMENT	S SINCE 2010/06/11 **		
**SUBJECT,	ON FIRST REG.	STRATION UNDER THE	AND TITLES ACT, TO			
**	SUBSECTION 4	(1) OF THE LAND TIT	es act, except par	GRAPH 11, PARAGRAPH 14, PROVINCIAL SUCCESSION DUTIES *		
**	AND ESCHEATS	OR FORFEITURE TO TH	CROWN.			
**	THE RIGHTS O	F ANY PERSON WHO WOUL	.D, BUT FOR THE LAN	D TITLES ACT, BE ENTITLED TO THE LAND OR ANY PART OF		
**	IT THROUGH L	NGTH OF ADVERSE POS	ESSION, PRESCRIPTI	N, MISDESCRIPTION OR BOUNDARIES SETTLED BY		
••	CONVENTION.					
	ANY LEASE TO	WHICH THE SUBSECTION	170(2) OF THE REGI	TRY ACT APPLIES.		
••DATE OF C	ONVERSION TO	LAND TITLES: 1998/1	?/22 ••			
43R33140	2010/01/25	PLAN REFERENCE				с
PR1820692	2010/05/14	TRANSFER	\$6,504,454	JOHNSTON, JAMES FRAZER	THE CORPORATION OF THE CITY OF BRAMPTON	с

PIN CREATION DATE:

2010/06/11



CHAIN OF TITLE REPORT

Project #: Address: Legal Description:	20190508200 w/s Highway #50, Brampton Part lots 11 & 12, Con 11 ND Tor Gord as Parts 2 & 3, 43R36614	9	Searched at: LRO #:	Brampton 43	Page 1
PIN #:	14213-0300(LT)				
INSTR #	DOC. TYPE	REG. DATE	E	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	Searched at:	Brampton	
Address:	w/s Highway #50, Brampton	LRO #:	43	
Legal	Part lots 11 & 12, Con 11 ND Tor Gord	e		Page 2
Description:	as Parts 2 & 3, 43R36614			
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

\sim				PARCEL REGISTER (ABBREVIATED) FOR PROPERTY IDEN	TIFIER	
		C	LAND		PAGE 1 OF 1	
	Untario	ServiceOr	ILATIO REGIS	TRY	PREPARED FOR bertuccil	
			OFFIC	E #43 14213-0300 (LT)	ON 2019/06/12 AT 14:59:40	
			* CER	TIFIED IN ACCORDANCE WITH THE LAND TITLES ACT * SUBJECT TO RESP	ERVATIONS IN CROWN GRANT *	
PROPERTY DES	CRIPTION:	PT LTS 11 AND 12,	CONC 11 NORTHERN DI	VISION, (FORMERLY TWP OF TORONTO GORE) DESIGNATED AS PTS 26 3 43	BR36614; CITY OF BRAMPTON	
PROPERTY REM	IARKS:					
ESTATE/QUALI	FIER:		RECENTLY:		PIN CREATION DATE:	
FEE SIMPLE			DIVISION FRO	DM 14213-0277	2015/09/04	
	a gondiried					
OWNERS' NAME	<u>.5</u> Mes epazed		CAPACITY SI	HARE		
	HES TRAZER		I NORT			
REG. NUM.	DATE	INSTRUMENT TYPE	Amount	PARTIES FROM	PARTIES TO	CERT/ CHKD
** PRINTOUT	INCLUDES AL	DOCUMENT TYPES AND	DELETED INSTRUMENT	SINCE 2015/09/04 **		
••SUBJECT,	ON FIRST REG	STRATION UNDER THE	AND TITLES ACT, TO			
••	SUBSECTION 4	(1) OF THE LAND TIT	ES ACT, EXCEPT PAR	GRAPH 11, PARAGRAPH 14, PROVINCIAL SUCCESSION DUTIES •		
**	AND ESCHEATS	OR FORFEITURE TO TH	CROWN.			
**	THE RIGHTS O	ANY PERSON WHO WOU	.D, BUT FOR THE LAN	D TITLES ACT, BE ENTITLED TO THE LAND OR ANY PART OF		
**	IT THROUGH L	NGTH OF ADVERSE POS	ESSION, PRESCRIPTIC	ON, MISDESCRIPTION OR BOUNDARIES SETTLED BY		
**	CONVENTION.					
**	ANY LEASE TO	NHICH THE SUBSECTION	70(2) OF THE REGI	STRY ACT APPLIES.		
**DATE OF C	ONVERSION TO	LAND TITLES: 1998/1	/22 **			
NOTE: THE N	O DEALINGS II	VDICATOR IS IN EFFEC	ON THIS PROPERTY			
R01032242	1993/03/02	TRANSFER	\$2		JOHNSTON, JAMES FRAZER	c
43R36614	2015/06/26	PLAN REFERENCE				c
PR2760174	2015/08/05	RESTRICTION-LAND		JOHNSTON, JAMES FRAZER		
112,001,4	2013/03/03	ABOINIGIION LAND		JOHNSTON, FRANCES ELEANOR		C
REI	ARKS: NO TRA	NSFER O9R CHARGE WIT	HOUT CONSENT OF THE	REGIONAL MUNICIPALITY OF PEEL PTS 2 & 3 ON 43R36614 & PT 1 ON	43R5454	
			!			<u> </u>



meters

Appendix D

EcoLog ERIS Report



Project Property:

Project No: Report Type: Order No: Requested by: Date Completed: Johnston Transit Facility, City of Brampton 10192 Highway 50 Brampton ON L6P 0G4 665125 RSC Report - Quote 20190508200 SNC-Lavalin Inc. July 31, 2019

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

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Executive Summary

Property Information:

Project Property:

Project No:

Johnston Transit Facility, City of Brampton 10192 Highway 50 Brampton ON L6P 0G4

665125

Order Information:

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

Historical/Products:

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

Executive Summary: Report Summary

Database	Name	Searched	Project Property	Boundary to 0.30km	Total
AAGR	Abandoned Aggregate Inventory	Y	0	0	0
AGR	Aggregate Inventory	Y	0	0	0
AMIS	Abandoned Mine Information System	Y	0	0	0
ANDR	Anderson's Waste Disposal Sites	Y	0	2	2
AUWR	Automobile Wrecking & Supplies	Y	0	0	0
BORE	Borehole	Y	0	0	0
CA	Certificates of Approval	Y	0	1	1
CDRY	Dry Cleaning Facilities	Y	0	0	0
CFOT	Commercial Fuel Oil Tanks	Y	0	0	0
CHEM	Chemical Register	Y	0	0	0
CNG	Compressed Natural Gas Stations	Y	0	0	0
COAL	Inventory of Coal Gasification Plants and Coal Tar Sites	Y	0	0	0
CONV	Compliance and Convictions	Y	0	0	0
CPU	Certificates of Property Use	Y	0	0	0
DRL	Drill Hole Database	Y	0	0	0
EASR	Environmental Activity and Sector Registry	Y	0	3	3
EBR	Environmental Registry	Y	0	1	1
ECA	Environmental Compliance Approval	Y	0	5	5
EEM	Environmental Effects Monitoring	Y	0	0	0
EHS	ERIS Historical Searches	Y	1	8	9
EIIS	Environmental Issues Inventory System	Y	0	0	0
EMHE	Emergency Management Historical Event	Y	0	0	0
EPAR	Environmental Penalty Annual Report	Y	0	0	0
EXP	List of TSSA Expired Facilities	Y	0	2	2
FCON	Federal Convictions	Y	0	0	0
FCS	Contaminated Sites on Federal Land	Y	0	0	0
FOFT	Fisheries & Oceans Fuel Tanks	Y	0	0	0
FST	Fuel Storage Tank	Y	0	1	1
FSTH	Fuel Storage Tank - Historic	Y	0	2	2
GEN	Ontario Regulation 347 Waste Generators Summary	Y	0	109	109
GHG	Greenhouse Gas Emissions from Large Facilities	Y	0	0	0
HINC	TSSA Historic Incidents	Y	0	2	2
IAFT	Indian & Northern Affairs Fuel Tanks	Y	0	0	0
INC	TSSA Incidents	Y	0	2	2
LIMO	Landfill Inventory Management Ontario	Y	0	0	0
MINE	Canadian Mine Locations	Y	0	0	0
Database	Name	Searched	Project Property	Boundary to 0.30km	Total
----------	--	----------	---------------------	-----------------------	-------
MNR	Mineral Occurrences	Y	0	0	0
NATE	National Analysis of Trends in Emergencies System (NATES)	Y	0	0	0
NCPL	Non-Compliance Reports	Y	0	0	0
NDFT	National Defense & Canadian Forces Fuel Tanks	Y	0	0	0
NDSP	National Defense & Canadian Forces Spills	Y	0	0	0
NDWD	National Defence & Canadian Forces Waste Disposal Sites	Y	0	0	0
NEBI	National Energy Board Pipeline Incidents	Y	0	0	0
NEBP	National Energy Board Wells	Y	0	0	0
NEES	National Environmental Emergencies System (NEES)	Y	0	0	0
NPCB	National PCB Inventory	Y	0	0	0
NPRI	National Pollutant Release Inventory	Y	0	22	22
OGWE	Oil and Gas Wells	Y	0	0	0
OOGW	Ontario Oil and Gas Wells	Y	0	0	0
OPCB	Inventory of PCB Storage Sites	Y	0	0	0
ORD	Orders	Y	0	0	0
PAP	Canadian Pulp and Paper	Y	0	0	0
PCFT	Parks Canada Fuel Storage Tanks	Y	0	0	0
PES	Pesticide Register	Y	0	0	0
PINC	TSSA Pipeline Incidents	Y	0	1	1
PRT	Private and Retail Fuel Storage Tanks	Y	0	1	1
PTTW	Permit to Take Water	Y	0	0	0
REC	Ontario Regulation 347 Waste Receivers Summary	Y	0	0	0
RSC	Record of Site Condition	Y	0	0	0
RST	Retail Fuel Storage Tanks	Y	0	0	0
SCT	Scott's Manufacturing Directory	Y	0	12	12
SPL	Ontario Spills	Y	0	7	7
SRDS	Wastewater Discharger Registration Database	Y	0	0	0
TANK	Anderson's Storage Tanks	Y	0	0	0
TCFT	Transport Canada Fuel Storage Tanks	Y	0	0	0
VAR	TSSA Variances for Abandonment of Underground Storage Tanks	Y	0	0	0
WDS	Waste Disposal Sites - MOE CA Inventory	Y	0	0	0
WDSH	Waste Disposal Sites - MOE 1991 Historical Approval	Y	0	0	0
WWIS	Water Well Information System	Y	3	25	28
	-	Total:	4	206	210

Executive Summary: Site Report Summary - Project Property

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

Executive Summary: Site Report Summary - Surrounding Properties

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

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

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

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

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

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

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

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
<u>28</u>	GEN	1389147 ONTARIO INC	16 CADETTA ROAD BRAMPTON ON L6P 0X4	WNW/148.4	-2.00	<u>144</u>
<u>28</u>	GEN	1389147 ONTARIO INC	16 CADETTA ROAD BRAMPTON ON L6P 0X4	WNW/148.4	-2.00	<u>145</u>
<u>28</u>	GEN	1389147 ONTARIO INC	16 CADETTA ROAD BRAMPTON ON	WNW/148.4	-2.00	<u>145</u>
<u>28</u>	GEN	AVENUE STRUCTURES CORPORATION	16 CADETTA ROAD BRAMPTON ON L6T 3Z8	WNW/148.4	-2.00	<u>145</u>
<u>28</u>	GEN	1389147 ONTARIO INC	16 CADETTA ROAD BRAMPTON ON L6P 0X4	WNW/148.4	-2.00	<u>146</u>
<u>28</u>	GEN	AVENUE STRUC(OUT OF BUSINESS)	16 CADETTA ROAD BRAMPTON ON L6T 3Z8	WNW/148.4	-2.00	<u>146</u>
<u>28</u>	GEN	Avenue Building Corporation	16 CADETTA ROAD BRAMPTON ON L6T 3Z8	WNW/148.4	-2.00	<u>146</u>
<u>28</u>	GEN	CANFORM STRUCTURES LIMITED	16 CADETTA ROAD BRAMPTON ON L6T 3Z8	WNW/148.4	-2.00	<u>147</u>
<u>28</u>	GEN	AVENUE STRUCTURES CORPORATION 03-217	16 CADETTA ROAD BRAMPTON ON L6T 3Z8	WNW/148.4	-2.00	<u>147</u>
<u>28</u>	GEN	1389147 ONTARIO INC	16 CADETTA ROAD BRAMPTON ON L6P 0X4	WNW/148.4	-2.00	<u>147</u>
<u>28</u>	GEN	AVENUE STRUCTURES CORPORATION	16 CADETTA ROAD BRAMPTON ON L6T 3Z8	WNW/148.4	-2.00	<u>147</u>
<u>28</u>	GEN	1389147 ONTARIO INC	16 CADETTA ROAD BRAMPTON ON L6P0X4	WNW/148.4	-2.00	<u>148</u>
<u>28</u>	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
<u>28</u>	GEN	1389147 ONTARIO INC	16 CADETTA ROAD BRAMPTON ON L6P0X4	WNW/148.4	-2.00	<u>148</u>
<u>28</u>	GEN	1389147 ONTARIO INC	16 CADETTA ROAD BRAMPTON ON L6P0X4	WNW/148.4	-2.00	<u>149</u>
<u>28</u>	GEN	1389147 ONTARIO INC	16 CADETTA ROAD BRAMPTON ON L6P0X4	WNW/148.4	-2.00	<u>149</u>
<u>29</u>	WWIS		lot 12 con 11 ON <i>Well ID:</i> 4905769	NW/156.2	-0.14	<u>149</u>
<u>30</u>	WWIS		KLEINBURG ON Well ID: 7302202	E/156.5	-3.00	<u>152</u>
<u>31</u>	WWIS		lot 12 con 11 ON <i>Well ID:</i> 7225368	WNW/157.8	-2.00	<u>155</u>
<u>32</u>	WWIS		Brampton ON <i>Well ID:</i> 7178624	NW/158.2	-1.38	<u>157</u>
<u>33</u>	ANDR	Coleraine junkyard 1976	Kleinburg ON L0J 1C0	NNW/160.5	1.00	160
<u>34</u>	WWIS		KLEINBURG ON Well ID: 7302201	E/164.3	-3.00	<u>161</u>
<u>35</u>	ANDR	Coleraine junkyard 1969	Kleinburg ON L0J 1C0	NNW/164.6	1.00	<u>163</u>
<u>36</u>	WWIS		lot 12 con 11 ON <i>Well ID:</i> 4905768	WNW/178.4	-2.00	<u>164</u>
<u>37</u>	EHS		Hwy 50 Brampton ON	ESE/184.8	-3.00	<u>167</u>
<u>38</u>	GEN	JOE GALLO BROS. PAVING CO. LTD.	6 CADETTA ROAD BRAMPTON ON L6T 3Z8	N/187.5	1.00	<u>167</u>

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

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

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

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

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

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

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

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

<u>CA</u> - 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.

Site	Address	<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	<u>13</u>

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.

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

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

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.

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

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>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
10192 hwy 50 brampton ON	18.3	5
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.

Site	Address	Distance (m)	<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>

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

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.

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

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.

Site	<u>Address</u>	Distance (m)	<u>Map Key</u>
TOTAL CRANE RENTAL LTD.	2 CADETTA ROAD BRAMPTON ON L6T 3Z8	43.6	<u>8</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 L6T 3Z8	69.6	<u>12</u>

Site	Address	<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>

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

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

Site	<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>

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

<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>

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

Site	Address	<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>

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

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.

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

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.

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

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	<u>Address</u>	Distance (m)	<u>Map Key</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 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	<u>Distance (m)</u>	<u>Map Key</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>
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.

Site	Address	<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.

Site	Address	<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>

<u>SCT</u> - 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>	Address	Distance (m)	<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>

Site	Address	<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.

Site	Address	<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</unofficial>	200.9	<u>42</u>
Site	Address	<u>Distance (m)</u>	<u>Map Key</u>
---	---	---------------------	----------------
Consolidated Fastfrate (Ontario) Holdings Inc.	9701 Highway 50 CONSOLIDATED FASTFRATE INC. Vaughan ON	263.3	<u>49</u>
Consolidated Fastfrate (Ontario) Holdings Inc.	9701 Highway 50 CONSOLIDATED FASTFRATE INC. Vaughan ON	263.3	<u>49</u>
	9701 Highway 50 in Woodbridge <unofficial> Vaughan ON</unofficial>	263.3	<u>49</u>
Consolidated Fastfrate (Ontario) Holdings Inc.	9701 Highway 50 Vaughan ON	263.3	<u>49</u>

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.

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

<u>Address</u>	Distance (m)	<u>Map Key</u>
Brampton ON	31.2	<u>7</u>
Well ID: 7249973		
lot 12 con 11 ON	53.2	<u>9</u>
Well ID: 4906179		
	50.0	
Brampton ON	58.9	<u>10</u>
Well ID: 7249975		
lot 11 con 11 ON	60.6	<u>11</u>
Well ID: 4902862		
lot 12 con 11 ON	86.0	<u>14</u>
Well ID: 4908701		
	05.3	47
BRAMPTON ON	93.3	<u>17</u>
Well ID: 7241945		
lot 12 con 11 ON	97.7	<u>18</u>
Well ID: 4906478		
	109.3	21
ON		
Well ID: 7304020		
lot 12 con 11 ON	127.9	<u>24</u>
Well ID: 4905812		
	129.0	25
Brampton ON		
Well ID: 7249972		
	131.1	26
		_
Well ID: 7241946		
KLEINBURG ON	144.7	<u>27</u>

Address	Distance (m)	<u>Map Key</u>
Well ID: 7302203		
lot 12 con 11 ON	156.2	<u>29</u>
Well ID: 4905769		
KLEINBURG ON	156.5	<u>30</u>
Well ID: 7302202		
lot 12 con 11 ON	157.8	<u>31</u>
Well ID: 7225368		
Brampton ON	158.2	<u>32</u>
Well ID: 7178624		
KLEINBURG ON	164.3	<u>34</u>
Well ID: 7302201		
lot 12 con 11 ON	178.4	<u>36</u>
Well ID: 4905768		
lot 12 con 11 ON	193.2	<u>40</u>
Well ID: 4905813		
Brampton ON	194.2	<u>41</u>
Well ID: 7166972		
BOLTON ON	284.5	<u>51</u>
Well ID: 7255951		
	007.0	
Brampton ON	287.9	<u>52</u>
Well ID: 7249976		
Brampton ON	298.0	<u>54</u>
Well ID: 7249971		



Source: © 2015 DMTI Spatial Inc.

79°40'30"W



Aerial (2018)

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

Source: ESRI World Imagery

Order No: 20190508200



© ERIS Information Limited Partnership





Topographic Map

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

Source: ESRI World Topographic Map

43°49'30"N

43°48'N

Order No: 20190508200



© ERIS Information Limited Partnership

Detail Report

Мар Кеу	Numbe Record	r of 's	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
Well ID: Constructio Primary Wa Sec. Water V Final Well S Water Type. Casing Mate Audit No: Tag: Constructio Method: Elevation (n Elevation R Depth to Be Well Depth: Overburden Pump Rate: Static Wate Flowing (Y/I Flow Rate: Clear/Cloud	n Date: ter Use: Use: tatus: erial: n n): eliability: drock: v/Bedrock: r Level: N): ly:	4905218 Domestic 0 Water Sup	ply		Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec: Contractor: Form Version: Owner: Street Name: County: Municipality: Site Info: Lot: Concession: Concession: Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability:	1 11/16/1977 Yes 5206 1 PEEL BRAMPTON CITY (TORONTO GORE) 011 11 CON
Bore Hole In DP2BR: Spatial Stat Code OB: Code OB De Open Hole: Cluster Kine Date Compl Remarks: Elevrc Desc. Location So Improvement Source Revi Supplier Com	formation D: us: esc: d: eted: urce Date: tucce Date: tuccation t Location sion Comn mment:	10319973 76 r Bedrock 10/4/1977 Source: Method: pent:			Elevation: Elevrc: Zone: East83: North83: Org CS: UTMRC: UTMRC: UTMRC Desc: Location Method:	209.900741 17 606464.6 4851923 5 margin of error : 100 m - 300 m p5
Overburden Materials Int Formation II Layer: Color: General Colo Mat1: Most Comm Mat2: Other Materi	<u>and Bedro erval</u> D: Dr: on Material ials:	<u>ck</u>	932049098 3 3 BROWN 95 CLAY			

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

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Color:		6			
General Color Matti	2	BROWN			
Most Commo	n Material:	TOPSOIL			
Mat2:					
Other Materia	ls:				
Mat3:	1				
Formation To	ns: n Depth:	0			
Formation En	d Depth:	2			
Formation En	d Depth UOM:	ft			
<u>Method of Co. Use</u>	nstruction & Well				
Method Const	truction ID:				
Method Const	ruction Code:	1			
Method Const	truction:	Cable Tool			
Ourier Metriou	construction.				
Pipe Informat	ion				
Pipe ID:		10868543			
Casing No:		1			
Comment:					
Alt Name:					
Construction	Record - Casing				
Casing ID:		930528020			
Layer:		1			
Material:	Matarial	1 87551			
Depth From:	waterial:	SIEEL			
Depth To:		78			
Casing Diame	ter:	6			
Casing Diame	ter UOM:	inch			
Casing Depth	000	π			
<u>Results of We</u>	ll Yield Testing				
Pump Test ID.	;	994905218			
Pump Set At:		•			
Static Level:	tor Pumping:	8 85			
Recommende	d Pump Depth:	90			
Pumping Rate);	3			
Flowing Rate:		_			
Recommende	d Pump Rate:	2			
Rate UOM:		GPM			
Water State A	fter Test Code:	1			
Water State A	fter Test:	CLEAR			
Pumping Test	Method:	1			
Pumping Dura	ation MIN [.]	0			
Flowing:		Ň			
Ū					

Draw Down & Recovery

Pump Test Detail ID:	
Test Type:	

934526544 Recovery

Мар Кеу	Number Records	of	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Test Duration	n:		30			
Test Level:			55			
Test Level U	OM:		ft			
Draw Down &	<u>& Recovery</u>					
Pump Test D	etail ID:		934780659			
Test Type:			Recovery			
Test Duration	n:		45			
Test Level:			40			
Test Level U	OM:		ft			
Draw Down 8	& Recoverv					
Pump Test D	etail ID:		934260796			
Test Type:			Recovery			
Test Duration	n:		15			
Test Level:			70			
Test Level U	OM:		ft			
Draw Down &	<u>& Recovery</u>					
Pump Test D	etail ID:		935045623			
Test Type:			Recovery			
Test Duration	n:		60			
Test Level:			25			
Test Level U	OM:		ft			
Water Details	<u>S</u>					
Water ID:			933793261			
Layer:			1			
Kind Code:			1			
Kind:			FRESH			
Water Found	l Depth:		90			
Water Found	I Depth UON	1:	ft			
2	1 of 1		-/0.0	209.9 / 1.00		14/14/10
_					ON	WWIS
Wall ID.		7070710			Data Entry Status	Voo
Construction	n Data:	1219110			Data Entry Status:	Tes
Drimary Wat	n Dale. tor Uso				Data Src. Data Pacaivad:	1/26/2017
Sec. Water I	lse [.]				Selected Flag:	Yes
Final Well S	tatus:				Abandonment Rec:	100
Water Type:					Contractor:	7230
Casing Mate	erial:				Form Version:	8
Audit No:		C28723			Owner:	
Tag:					Street Name:	
Construction	n				County:	PEEL
Method:						
Elevation (m	1): 				Municipality:	BRAMPTON CITY (TORONTO GORE)
Elevation Re	eliability:				Site Info:	
Depth to Be	drock:				Lot:	
Well Depth:	/Doduce I				Concession:	
Overburden	Bearock:				CONCESSION NAME:	
Fullip Rate:	laval				Lasung NAD03. Northing NAD02.	
Flowing (V/	Level. V)·				Tone	
Flow Rate	•/•				UTM Reliability	
Clear/Cloud	y:				e i mi i conconity i	

Bore Hole Information

Bore Hole ID: DP2BR: Spatial Status: Code OB: Code OB Desc: Open Hole: Cluster Kind: Date Completed: Remarks: Elevrc Desc: Location Source Date:	1006344430 10/3/2016	Elevation: Elevrc: Zone: East83: North83: Org CS: UTMRC: UTMRC Desc: Location Method:	209.772109 17 606402 4852120 UTM83 4 margin of error : 30 m - 100 m wwr
Location Source Date: Improvement Location S Improvement Location I Source Revision Commo Supplier Comment:	Source: Nethod: ent:		

<u>3</u>	1 of 1	-/0.0	209.3 / 0.44	Brampton ON	WWIS
Well ID: Constructi Primary W Sec. Water Final Well Water Type Casing Ma Audit No: Tag:	ion Date: later Use: r Use: Status: e: terial:	7249974 Abandoned-Other Z219828		Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec: Contractor: Form Version: Owner: Street Name:	10/14/2015 Yes Yes 7472 7 HWY 50 CASTLEMORE RD. & COLERAINE DR
Constructi Method: Elevation (Elevation I Depth to B Well Depth Overburde Pump Rate Static Wate Flowing (Y Flow Rate: Clear/Clou	ion (m): Reliability: Dedrock: a: on/Bedrock: a: er Level: (/N): dy:			County: Municipality: Site Info: Lot: Concession: Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability:	PEEL BRAMPTON CITY (TORONTO GORE)
<u>Bore Hole I</u>	Information				
Bore Hole DP2BR: Spatial Sta Code OB: Code OB L Open Hole Cluster Kin	ID: ntus: Desc: :: nd: slatad:	0/10/2015		Elevation: Elevrc: Zone: East83: North83: Org CS: UTMRC: UTMRC:	208.724685 17 606455 4852163 UTM83 4 margin of arror : 20 m = 100 m
Date Comp Remarks:	Dieted:	9/10/2015		UTMRC Desc: Location Method:	margin of error : 30 m - 100 m wwr

Remarks: Elevrc Desc: Location Source Date: Improvement Location Source: Improvement Location Method: Source Revision Comment: Supplier Comment:

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Annular Spaces Sealing Reco</u>	ce/Abandonment ord				
Plug ID: Layer: Plug From: Plug To: Plug Depth L	IOM:	1005770427 1 0 12 m			
<u>Pipe Informa</u>	<u>tion</u>				
Pipe ID: Casing No: Comment: Alt Name:		1005770419 0			
<u>Construction</u>	Record - Casing				
Casing ID: Layer: Material: Open Hole o Depth From: Depth To: Casing Diam	r Material: eter:	1005770424			
Casing Diam Casing Dept	eter UOM: h UOM:	cm m			
<u>Construction</u>	<u> Record - Screen</u>				
Screen ID: Layer: Slot: Screen Top I Screen End I Screen Mate Screen Diam Screen Diam	Depth: Depth: rial: h UOM: eter UOM: eter:	1005770425 m cm			
Hole Diamete	er				
Hole ID: Diameter: Depth From: Depth To: Hole Depth U Hole Diamete	IOM: er UOM:	1005770421 21 0 6.1 m cm			
Hole Diamete	<u>ər</u>				
Hole ID: Diameter: Depth From: Depth To: Hole Depth L Hole Diamete	IOM: er UOM:	1005770422 5.2 6.1 12 m cm			
<u>5</u>	1 of 1	N/18.3	209.9 / 1.00	10192 hwy 50 brampton ON	EHS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Order No: Status: Report Type. Report Date: Date Receive Previous Site Lot/Building Additional Int	200809 C C Ustor 10/3/20 ed: 9/24/20 e Name: Size: con. 12 fo Ordered:	924048 n Report 008 008 2 EHS Pt Lot 15 RP 43f	R25795	Nearest Intersection: Municipality: Client Prov/State: Search Radius (km): X: Y:	Hwy 50 and cadetta road region of Peel ON 0.25 -79.678012 43.815669	

<u>4</u> 1 o	f 1	NNE/5.3	208.9 / 0.00	Brampton ON	WWIS
Well ID: Construction Date	e:	7282340		Data Entry Status: Data Src:	
Primary Water Us Sec. Water Use: Final Well Status: Water Type: Casing Material: Audit No:	ie: 1	Monitoring Dbservation Wells Z248118		Date Received: Selected Flag: Abandonment Rec: Contractor: Form Version: Owner:	2/28/2017 Yes 6607 7
Tag:	1	A217935		Street Name:	HWY 50 SOUTHBOUND LANE SOUTH OF
Construction Met Elevation (m): Elevation Reliabil Depth to Bedrock Well Depth: Overburden/Bedr Pump Rate: Static Water Leve Flowing (Y/N): Flow Rate: Clear/Cloudy:	hod: lity: cock: bl:			County: Municipality: Site Info: Lot: Concession: Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability:	PEEL BRAMPTON CITY (TORONTO GORE)

Bore Hole Information

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	e:		

Overburden and Bedrock Materials Interval

Improvement Location Source: Improvement Location Method: Source Revision Comment: Supplier Comment:

Formation ID:	1006618317
Layer:	1
Color:	8
General Color:	BLACK
Mat1:	
Most Common Material:	

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Mat2: Other Materi Mat3: Other Materi Formation To Formation En	als: als: op Depth: nd Depth: nd Depth UOM:	60 CEMENTED 0 0.2 m			
<u>Overburden</u> Materials Inte	and Bedrock erval				
Formation ID Layer: Color: General Colo Mat1: Most Commo Mat2: Other Materia Mat3: Other Materia Formation Ed Formation Ed	: on Material: als: als: op Depth: nd Depth: nd Depth UOM:	1006618319 3 2 GREY 06 SILT 05 CLAY 66 DENSE 1.2 6 m			
Overburden Materials Inte	and Bedrock erval				
Formation IE Layer: Color: General Colo Mat1: Most Commo Mat2: Other Materia Mat3: Other Materia Formation Te Formation El	: on Material: als: als: op Depth: od Depth: od Depth: od Depth UOM:	1006618318 2 6 BROWN 28 SAND 11 GRAVEL 01 FILL 0.2 1.2 m			
<u>Annular Spa</u> <u>Sealing Reco</u>	ce/Abandonment_ ord				
Plug ID: Layer: Plug From: Plug To: Plug Depth L	IOM:	1006618327 2 0.3 2.7 m			
<u>Annular Spa</u> Sealing Reco	ce/Abandonment ord				
Plug ID: Layer: Plug From: Plug To: Plug Depth L	IOM:	1006618326 1 0 0.3 m			
Method of Co	onstruction & Well				

<u>Use</u>

54

Map Key	Numbe Record	r of Direction/ s Distance (m)	Elev/Diff (m)	Site	DB
Method Con Method Con Method Con Other Metho	struction IL struction C struction: d Construc	D: ode: 6 Boring stion:			
<u>Pipe Informa</u>	<u>tion</u>				
Pipe ID: Casing No: Comment: Alt Name:		1006618316 0			
<u>Construction</u>	n Record - (Casing			
Casing ID: Layer: Material: Open Hole o Depth From: Depth To: Casing Diam Casing Dept	r Material: eter: eter UOM: h UOM:	1006618322 1 5 PLASTIC 0 3 5.1 cm m			
<u>Construction</u>	n Record - S	<u>Screen</u>			
Screen ID: Layer: Slot: Screen Top I Screen End Screen Mate Screen Dept Screen Diam Screen Diam	Depth: Depth: rial: h UOM: eter UOM: ieter:	1006618323 1 10 3 6 5 m cm 6.4			
Hole Diamet	<u>er</u>				
Hole ID: Diameter: Depth From: Depth To: Hole Depth U Hole Diamet	JOM: er UOM:	1006618320 21 0 6 m cm			
<u>6</u>	1 of 1	NW/28.6	207.8/-1.04	lot 12 con 11 ON	WWIS
Well ID: Construction Primary Wat Sec. Water U Final Well St Water Type: Casing Mate Audit No: Tag: Construction Elevation (m Elevation Re Depth to Bed	n Date: er Use: lse: atus: rial: n Method:): liability: trock:	4905247 Domestic 0 Water Supply		Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec: Contractor: Form Version: Owner: Street Name: County: Municipality: Site Info: Lot:	1 12/7/1977 Yes 5206 1 PEEL BRAMPTON CITY (TORONTO GORE) 012
55	erisinfo.c	om Environmental Risk Inf	ormation Service	es	Order No: 20190508200

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Well Depth: Overburden/B Pump Rate: Static Water L Flowing (Y/N): Flow Rate: Clear/Cloudy:	edrock: evel:			Concession: Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability:	11 CON	
Bore Hole Info	ormation					
Bore Hole ID: DP2BR: Spatial Status. Code OB: Code OB Desc Open Hole: Cluster Kind: Date Complete Remarks: Elevrc Desc: Location Sour Improvement Source Revisi	10320 76 : c: Bedro ed: 11/30 rce Date: Location Source. Location Method	0002 ock /1977 :		Elevation: Elevrc: Zone: East83: North83: Org CS: UTMRC: UTMRC Desc: Location Method:	207.618927 17 606164.6 4852073 5 margin of error : 100 m - 300 m p5	
Supplier Com	ment:					
<u>Overburden an</u> <u>Materials Inter</u>	<u>nd Bedrock</u> r <u>val</u>					
Formation ID: Layer: Color: General Color. Mat1: Most Commor Mat2: Other Material Mat3: Other Material Formation Top	: n Material: ls: ls: p Depth:	932049232 3 2 GREY 17 SHALE 76				
Formation End Formation End	d Depth: d Depth UOM:	95 ft				
<u>Overburden al</u> <u>Materials Inter</u>	<u>nd Bedrock</u> rval					
Formation ID: Layer: Color: General Color. Mat1: Most Commor. Mat2: Other Material Mat3: Other Material Formation Top Formation Enc.	: n Material: ls: ls: o Depth: d Depth: d Depth: d Depth UOM:	932049231 2 3 BLUE 05 CLAY 11 GRAVEL 26 76 ft				
<u>Overburden aı</u> Materials Inter	<u>nd Bedrock</u> rval					
56	<u>erisinfo.com</u> Er	nvironmental Risk Info	ormation Servic	es	Order No: 20190	508200

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Formation ID: Layer: Color: General Color Mat1: Most Commol Mat2: Other Material	: n Material: Is:	932049230 1 6 BROWN 05 CLAY			
Mat3: Other Materia Formation Toj	ls: o Depth:	0			
Formation En Formation En	d Depth: d Depth UOM:	26 ft			
<u>Method of Col Use</u>	nstruction & Well				
Method Const Method Const Method Const Other Method	truction ID: truction Code: truction: Construction:	1 Cable Tool			
<u>Pipe Informati</u>	ion				
Pipe ID: Casing No: Comment: Alt Name:		10868572 1			
<u>Construction</u>	Record - Casing				
Casing ID: Layer: Material: Open Hole or Depth From: Depth To: Casing Diame Casing Diame Casing Depth	Material: ter: ter UOM: UOM:	930528067 1 STEEL 82 8 inch ft			
<u>Results of We</u>	<u>II Yield Testing</u>				
Pump Test ID. Pump Set At: Static Level: Final Level Af Recommende Pumping Rate	: ter Pumping: d Pump Depth: ::	994905247 20 85 85 6			
Recommende Levels UOM: Rate UOM: Water State A Water State A Pumping Test Pumping Dura Pumping Dura	d Pump Rate: fter Test Code: fter Test: Method: ation HR: ation MIN:	6 ft GPM 1 CLEAR 1 4 0			
Flowing:		Ν			

Draw Down & Recovery

Map Key Number Records	of Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Pump Test Detail ID: Test Type: Test Duration: Test Level: Test Level UOM:	935045648 Recovery 60 20 ft			
Draw Down & Recovery				
Pump Test Detail ID: Test Type: Test Duration: Test Level: Test Level UOM:	934780683 Recovery 45 25 ft			
Draw Down & Recovery				
<i>Pump Test Detail ID: Test Type: Test Duration: Test Level: Test Level UOM:</i>	934526569 Recovery 30 40 ft			
Draw Down & Recovery				
Pump Test Detail ID: Test Type: Test Duration: Test Level: Test Level UOM:	934260821 Recovery 15 70 ft			
Water Details				
Water ID: Layer: Kind Code: Kind: Water Found Depth: Water Found Depth UOM	933793292 1 1 FRESH 90 1 : ft			
71 of 1	ESE/31.2	206.9 / -2.00	Brampton ON	WWIS
Well ID: Construction Date: Primary Water Use: Sec. Water Use: Final Well Status: 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):	7249973 Abandoned-Other Z219827		Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec: Contractor: Form Version: Owner: Street Name: County: Municipality: Site Info: Lot: Concession: Concession: Concession Name: Easting NAD83: Northing NAD83: Zone:	10/14/2015 Yes 7472 7 HWY 50 CASTLEMORE RD. & COLERAINE DR. PEEL BRAMPTON CITY (TORONTO GORE)

٨	lap Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
FI C	low Rate: lear/Cloudy:				UTM Reliability:		
<u>B</u>	ore Hole Info	ormation					
B D S J C C O C D R E L C D R E L C I I I S S	ore Hole ID: P2BR: patial Status ode OB: ode OB Desc pen Hole: luster Kind: ate Completc emarks: levrc Desc: ocation Souu nprovement provement ource Revisi upplier Com	10057395: : c: ed: 9/10/2015 rce Date: Location Source: Location Method: ion Comment: ment:	57		Elevation: Elevrc: Zone: East83: North83: Org CS: UTMRC: UTMRC Desc: Location Method:	209.180435 17 606570 4851889 UTM83 4 margin of error : 30 m - 100 m wwr	
<u>A</u> Se	nnular Spac ealing Recor	<u>e/Abandonment</u> ' <u>d</u>					
Pi La Pi Pi Pi	lug ID: ayer: lug From: lug To: lug Depth U0	DM:	1005770415 1 0 12 m				
Pi	ipe Informati	ion					
Pi Ci Ci Ai	ipe ID: asing No: omment: It Name:		1005770407 0				
<u>C</u>	onstruction	Record - Casing					
Ci Li M O D D	asing ID: ayer: aterial: pen Hole or epth From: epth To: asing Diamo	Material:	1005770412				
C	asing Diame asing Diame asing Depth	ter UOM: UOM:	cm m				
	uonig Dopin						
<u>C</u>	onstruction	<u>Record - Screen</u>					
5 Li S S S S S S	creen ID: ayer: lot: creen Top Do creen End D creen Materi creen Depth creen Diame	epth: epth: al: UOM: ter UOM:	1005770413 m cm				
S	creen Diame	ter:					

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Hole Diameter					
Hole ID: Diameter: Depth From: Depth To: Hole Depth UC Hole Diameter	DM: • UOM:	1005770410 21 0 6.1 m cm			
Hole Diameter					
Hole ID: Diameter: Depth From: Depth To: Hole Depth UC Hole Diameter	DM: · UOM:	1005770409 5.2 6.1 12 m 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:	ON2489	600		PO Box No:	
Status: Approval Year	r s: 99,00,01			Country: Choice of Contact:	
Contam. Facili MHSW Facility	ity: /:			Co Admin: Phone No Admin:	
SIC Code: SIC Descriptio	9911 on:	IND. MACH. RENTA	AL.		
Detail(s)					
Waste Class: Waste Class D	Desc:	252 WASTE OILS & LUI	BRICANTS		
<u>8</u>	2 of 3	N/43.6	209.9 / 1.00	2 CADETTA RD, BRAMPTON ON	INC
Incident No:		1127028			
Attribute Cate	gory:	FS-Perform L1 Incid	lent Insp		
Incident Locat Incident Locat Drainage Syst Sub Surface C Aff. Prop. Use Contam. Migra Contact Natur. Near Body of Approx. Quan Equipment Mc Serial No: Residential Ap Commercial A Industrial App Institutional A Venting Type: Vent Connecto Vent Chimney Pipeline Type: Pipeline Involv Pipe Material: Depth Ground	tion: em: Contam.: Water: ated: al Env.: Water: t. Rel.: odel: op. Type: pp. Type: pp. Type: pp. Type: or Mater: Mater: ved:	2 CADETTA RD, BF	RAMPTON - SPILL		

Мар Кеу	Number Records	of Direction/ Distance (mj	Elev/Diff) (m)	Site		DB
Regulator Lo Regulator Ty Operation Pr Liquid Prop Equipment T Cylinder Cap Cylinder Cap Cylinder Cap Cylinder Mat Tank Capaci Fuels Occur Fuel Type In Date of Occu Occur Insp S Any Health II Any Environ Was Service Was Propert Operation Ty Enforcement Prc Escalatio Task No: Notes: Occurence N Tank Materia Tank Storage Tank Locatio Pump Flow F Liquid Prop	ocation: ype: ype: essure: Make: Model: Serial No: ype: bac:ty: bac: Units: errial Type: ty: ence Type: volved: urence: urence: bart Date: mpact: mental Impa: Interrupted: y Damaged: y Damaged: y Damaged: hterrupted: on Required: larrative: at Type: e Type: con Type: Rate Capac: Notes:	Liquid Petroleum Diesel 2013/06/11 00:00 NULL 2013/06/11 00:00 No No No Private Fuel Outle NULL NULL 4513109 SPILL DUE TO U	Spill 2:00 2:00 et	CILE WHILE FILLING		
<u>8</u>	3 of 3	N/43.6	209.9 / 1.00	2 Cadetta Rd Brampton ON		SPL
Ref No: Site No: Incident Dt:		2501-98KRZM 11-JUN-13		Discharger Report: Material Group: Health/Eny Conseq:		
Year: Incident Cau	se:	Leak/Break		Client Type: Sector Type:	Unknown / N/A	

-		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></unofficial>			
Site County/District:				
Site Geo Ref Meth:				
Incident Summary:	Spill diesel from private prop to City bo	bulevard		
Contaminant Qty:	0 other - see incident description			

Map Key	Number Record	r of 's	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
9	1 of 1		N/53.2	209.9 / 1.00	lot 12 con 11 ON	WWIS
Well ID: Construction Primary Wat Sec. Water U Final Well St Water Type: Casing Mate Audit No: Tag: Construction Elevation (m Elevation Re Depth to Bed Well Depth: Overburden, Pump Rate: Static Water Flowing (Y/N Flow Rate: Clear/Cloudy	n Date: ter Use: Jse: tatus: erial: n Method: n): eliability: drock: /Bedrock: /Bedrock: /Level: y):	4906179 Industrial Water Sup	oply		Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec: Contractor: Form Version: Owner: Street Name: County: Municipality: Site Info: Lot: Concession: Concession: Concession: Easting NAD83: Northing NAD83: Zone: UTM Reliability:	1 5/18/1984 Yes 1663 1 PEEL BRAMPTON CITY (TORONTO GORE) 012 11 CON
Bore Hole In Bore Hole II DP2BR: Spatial Statu Code OB: Code OB De Open Hole: Cluster Kino Date Comple Remarks: Elevrc Desc. Location So Improvement Source Revi Supplier Com	oformation): us: us: esc: t: tot urce Date: tot Location I sion Comm mment:	10320755 80 r Bedrock 6/28/1983 Source: Method: tent:			Elevation: Elevrc: Zone: East83: North83: Org CS: UTMRC: UTMRC: UTMRC Desc: Location Method:	210.185699 17 606260.6 4852234 4 margin of error : 30 m - 100 m topo
<u>Overburden</u> <u>Materials Int</u>	<u>and Bedroo terval</u>	<u>ck</u>				
Formation IL Layer: Color: General Colo Mat1: Most Comm Mat2: Other Materi Mat3: Other Materi Formation T Formation E Formation E	D: or: on Material: ials: ials: ials: ind Depth: ind Depth U	: IOM:	932052647 5 2 GREY 17 SHALE 80 89 ft			
<u>Overburden</u> <u>Materials Int</u>	<u>and Bedroo terval</u>	<u>ck</u>				
Formation IL	D:		932052648			
62	erisinfo.co	om Enviro	nmental Risk Info	ormation Service	es	Order No: 20190508200

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Layer:		6			
Color:					
General Colo Mat1.	r:	17			
Most Commo	n Material:	SHALE			
Mat2:		73			
Other Materia	ls:	HARD			
Mat3:					
Formation To	n Denth	89			
Formation Er	d Depth:	97			
Formation Er	d Depth UOM:	ft			
<u>Overburden a</u> Materials Inte	nd Bedrock rval				
Formation ID	-	932052645			
Layer:		3			
Color:		2			
General Colo	r:				
Most Commo	n Material:	GRAVEL			
Mat2:		05			
Other Materia	ls:	CLAY			
Mat3: Other Meteric					
Formation To	n Depth:	56			
Formation Er	d Depth:	61			
Formation Er	d Depth UOM:	ft			
<u>Overburden a</u> Materials Inte	nd Bedrock rval				
Formation ID		932052643			
Layer:		1			
Color:	_	6			
General Colo Mat1.	r:	05			
Most Commo	n Material:	CLAY			
Mat2:		11			
Other Materia	ls:	GRAVEL			
Mat3: Other Materia	le.				
Formation To	p Depth:	0			
Formation Er	d Depth:	16			
Formation Er	d Depth UOM:	ft			
<u>Overburden a</u> Materials Inte	nd Bedrock rval				
Formation ID		932052644			
Layer:		2			
General Colo	r:	BLUE			
Mat1:		05			
Most Commo	n Material:	CLAY			
Mat2:	1	11 CDAVEL			
Uther Materia Mat?	us:	GRAVEL			
Other Materia	ls:				
Formation To	p Depth:	16			
Formation Er	d Depth:	56			
Formation Er	d Depth UOM:	ft			

Overburden and Bedrock Materials Interval Formation ID: 932052646 Layer: 4 Color: 2 General Color: GREY Mat1: 11 Most Common Material: GRAVEL Mat2: 28 Other Materials: SAND 06 Mat3: Other Materials: SILT Formation Top Depth: 61 Formation End Depth: 80 Formation End Depth UOM: ft Method of Construction & Well <u>Use</u> Method Construction ID: Method Construction Code: 2 Rotary (Convent.) Method Construction: **Other Method Construction:** Pipe Information 10869325 Pipe ID: Casing No: 1 Comment: Alt Name: **Construction Record - Casing** 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 **Construction Record - Casing**

930529269
2
4
OPEN HOLE
97
6
inch
ft

Results of Well Yield Testing

Pump	Test ID:
Pump	Set At:

erisinfo.com | Environmental Risk Information Services

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Static Level: Final Level Afte Recommended Pumping Rate: Flowing Rate: Recommended Levels UOM: Rate UOM: Water State Aft Water State Aft Pumping Turat Pumping Durat Flowing:	er Pumping: Pump Depth: Pump Rate: Pum	31 94 95 4 4 ft GPM 1 CLEAR 2 1 20 N			
<u>Draw Down & F</u> Pump Test Deta Test Type:	<u>Recovery</u> ail ID:	934253213 Draw Down			
Test Duration: Test Level: Test Level UON	Л:	94 ft			
Water Details Water ID: Layer: Kind Code: Kind: Water Found D Water Found D	epth: epth UOM:	933794118 1 1 FRESH ft			
<u>10</u> 1	of 1	N/58.9	209.9 / 1.00	Brampton ON	WWIS
Well ID: Construction D Primary Water Sec. Water Use Final Well Statt Water Type: Casing Materia Audit No: Tag: Construction M Elevation (m): Elevation Relia Depth to Bedroo Well Depth: Overburden/Bee Pump Rate: Static Water Le Flowing (Y/N): Flow Rate: Clear/Cloudy:	724997 Date: Use: s: Abando I: Z21479 Tethod: bility: ock: adrock: evel:	'5 oned-Other)8		Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec: Contractor: Form Version: Owner: Street Name: County: Municipality: Site Info: Lot: Concession: Concession: Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability:	10/14/2015 Yes 7472 7 HWY 50 APPROX. 300M SOUTH OF COLERAINE PEEL BRAMPTON CITY (TORONTO GORE)
Bore Hole Infor	rmation				
Bore Hole ID: DP2BR: Spatial Status:	100573	39563		Elevation: Elevrc: Zone:	210.411819 17

Map Key Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Code OB: Code OB Desc: Open Hole: Cluster Kind: Date Completed: 7/24/20 Remarks: Elevrc Desc: Location Source Date: Improvement Location Source: Improvement Location Method: Source Revision Comment: Supplier Comment:	15		East83: North83: Org CS: UTMRC: UTMRC Desc: Location Method:	606372 4852371 UTM83 4 margin of error : 30 m - 100 m wwr	
<u>Annular Space/Abandonment</u> <u>Sealing Record</u>					
Plug ID: Layer: Plug From: Plug To: Plug Depth UOM:	1005770439 1 0 18 m				
Pipe Information					
Pipe ID: Casing No: Comment: Alt Name:	1005770431 0				
Construction Record - Casing					
Casing ID: Layer: Material: Open Hole or Material: Depth From: Depth To: Casing Diameter:	1005770436				
Casing Diameter UOM: Casing Depth UOM:	cm m				
Construction Record - Screen					
Screen ID: Layer: Slot: Screen Top Depth: Screen End Depth:	1005770437				
Screen Material: Screen Depth UOM: Screen Diameter UOM: Screen Diameter:	m cm				
Hole Diameter					
Hole ID: Diameter: Depth From: Depth To: Hole Depth UOM: Hole Diameter UOM:	1005770434 5.2 2 18 m cm				

Map Key	Number Records	of Direct Distar	ion/ Elev/Diff nce (m) (m)	Site	DB
Hole Diamete	<u>er</u>				
Hole ID: Diameter: Depth From: Depth To: Hole Depth U Hole Diamete	IOM: er UOM:	10057704 21 0 2 m cm	33		
<u>11</u>	1 of 1	SSE/60.	6 206.9 / -2.00	lot 11 con 11 ON	WWIS
Well ID: Construction Primary Wate Sec. Water U Final Well Sta Water Type: Casing Mater Audit No: Tag: Construction Elevation (m) Elevation Rel Depth to Bed Well Depth: Overburden/I Pump Rate: Static Water Flowing (Y/N, Flow Rate: Clear/Cloudy	Date: er Use: se: atus: rial: Method: liability: liability: brock: Bedrock: Level:):	4902862 Livestock Domestic Water Supply		Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec: Contractor: Form Version: Owner: Street Name: County: Municipality: Site Info: Lot: Concession: Concession: Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability:	1 1/17/1967 Yes 5206 1 PEEL BRAMPTON CITY (TORONTO GORE) 011 11 CON
Bore Hole Inf	ormation				
Bore Hole ID: DP2BR: Spatial Statu: Code OB: Code OB Des Open Hole: Cluster Kind: Date Comple Remarks: Elevrc Desc: Location Sou Improvement Source Revis Supplier Con	s: sc: ted: ted: t Location So t Location M sion Comme. nment:	10317703 66 r Bedrock 10/25/1966 ource: lethod: nt:		Elevation: Elevrc: Zone: East83: North83: Org CS: UTMRC: UTMRC Desc: Location Method:	208.391708 17 606379.6 4851703 4 margin of error : 30 m - 100 m p4
Overburden a Materials Inte Formation ID Layer: Color: General Colo Mat1: Most Commo Mat2: Other Materia	and Bedrock erval : : r: on Material: als:	93203938 3 3 BLUE 05 CLAY	3		

	Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
-	Mat3: Other Material Formation Top Formation End Formation End	is: o Depth: d Depth: d Depth UOM:	18 22 ft			
	<u>Overburden al</u> <u>Materials Inter</u>	nd Bedrock ⁻ val				
	Formation ID: Layer: Color: General Color Mat1: Most Common Mat2: Other Material Mat3: Other Material	: n Material: ls:	932039386 6 06 SILT			
	Formation Top Formation End Formation End	d Depth: d Depth: d Depth UOM:	64 66 ft			
	<u>Overburden al</u> <u>Materials Inter</u>	nd Bedrock <u>rval</u>				
	Formation ID: Layer: Color: General Color Mat1: Most Commor Mat2: Other Material Mat3: Other Material	: n Material: 's:	932039385 5 3 BLUE 05 CLAY			
	Formation English	d Depth: d Depth: d Depth UOM:	23 64 ft			
	<u>Overburden al</u> <u>Materials Inter</u>	nd Bedrock rval				
	Formation ID: Layer: Color: General Color Mat1: Most Common Mat2: Other Material Mat3: Other Material Formation Top Formation End Formation End	: n Material: 's: o Depth: d Depth: d Depth: d Depth UOM:	932039382 2 6 BROWN 05 CLAY 1 18 ft			
	<u>Overburden al</u> <u>Material</u> s Inter	<u>nd Bedrock</u> <u>val</u>				
	Formation ID: Layer:		932039387 7			

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

Construction Record - Casing

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Casing ID:		930524969			
Layer:		1			
Material:		1			
Open Hole of	r Material:	STEEL			
Depth From:					
Depth To:		66			
Casing Diam	eter:	7			
Casing Diam	eter UOM:	inch			
Casing Dept	h UOM:	ft			
Construction	Record - Casing				
Casing ID [.]		930524970			
Laver:		2			
Material:		4			
Open Hole o	r Material:	OPEN HOLE			
Depth From:	matorian				
Depth To:		90			
Casing Diam	eter:	7			
Casing Diam	eter UOM:	inch			
Casing Depti	h UOM:	ft			
<u>Results of W</u>	ell Yield Testing				
Pumn Test II).	994902862			
Pump Set At		334302002			
Static Level		20			
Final Level A	fter Pumpina [.]	85			
Recommend	ed Pumn Denth	85			
Pumping Rat		3			
Flowing Rate		0			
Recommend	 ed Pump Rate	3			
Levels UOM:	ou r ump rator	ft			
Rate UOM:		GPM			
Water State	After Test Code:	1			
Water State	After Test:	CLEAR			
Pumpina Tes	t Method:	1			
Pumpina Du	ration HR:	8			
Pumpina Du	ration MIN:	0			
Flowing:		N			
Water Details	2				
Wator ID.		033700886			
l avor		1			
Layer. Kind Codo:		1			
Kind		FRESH			
Water Found	Denth:	74			
Water Found	Depth UOM:	ft			
<u>12</u>	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: Instance ID: Instance Type: Description: Status: TSSA Program Area: Maximum Hazard Rank: 11101494 69091 FS Propane Tank FS Propane Tank EXPIRED

Мар Кеу	Number Records	r of S	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Facility Type Expired Date):):					
<u>12</u>	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: Instance ID: Instance Typ Description: Status: TSSA Progra Maximum Ha Facility Type Expired Date	be: am Area: azard Rank: ::		9901394 394140 FS Facility FS Propane Refill C EXPIRED	Cntr - Cylr Fill		
<u>12</u>	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 Status: Approval Yea Contam. Fac MHSW Facili SIC Code: SIC Descript	o: ars: ility: ity: ion:	ON0140 2011 532410	700 Construction Transi	portation Mining an	PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin: d Forestry Machinery and Equipment Rental and Leasing	
<u>Detail(s)</u>						
Waste Class Waste Class	: Desc:		213 PETROLEUM DIST	TILLATES		
Waste Class Waste Class	: Desc:		211 AROMATIC SOLVE	ENTS		
Waste Class Waste Class	: Desc:		251 OIL SKIMMINGS &	SLUDGES		
Waste Class Waste Class	: Desc:		252 WASTE OILS & LU	BRICANTS		
<u>12</u>	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	o:	ON0140	700		PO Box No:	
Status: Approval Yea	ars:	92,93,94 07,08	,95,96,97,98,99,00,0	1,02,03,04,05,06,	Country: Choice of Contact:	
Contam. Facility: MHSW Facility: SIC Code: SIC Description:		4122	WATERWORKS &	SEWAGE	Co Admin: Phone No Admin:	
<u>Detail(s)</u>						
Waste Class Waste Class	: Desc:		211 AROMATIC SOLVE	ENTS		

Waste Class: 213 PETROLEUM DISTILLATES Waste Class: 251 OIL SKIMMINGS & SLUDGES Waste Class: 252 Waste Class: Waste Class: 252 WASTE OILS & LUBRICANTS 12 5 of 16 NNW/69.6 209.3 / 0.44 PILEN CONSTRUCTION OF CANADA LIMITED	
Waste Class: 251 OIL SKIMMINGS & SLUDGES Waste Class: 252 WASTE OILS & LUBRICANTS 12 5 of 16 NNW/69.6 209.3 / 0.44 PILEN CONSTRUCTION OF CANADA LIMITED	
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	
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:213Waste Class Desc:PETROLEUM DISTILLATES	
Waste Class:211Waste Class Desc:AROMATIC SOLVENTS	
Waste Class:252Waste Class Desc:WASTE OILS & LUBRICANTS	
Waste Class: 251 Waste Class Desc: OIL SKIMMINGS & SLUDGES	
126 of 16NNW/69.6209.3 / 0.44PILEN 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:213Waste Class Desc:PETROLEUM DISTILLATES	
Waste Class: 251 Waste Class Desc: OIL SKIMMINGS & SLUDGES	
Waste Class:252Waste Class Desc:WASTE OILS & LUBRICANTS	
127 of 16NNW/69.6209.3 / 0.44PILEN CONSTRUCTION OF CANADA LIMITED 22 CADETTA ROAD BRAMPTON ON L6P0X4	GEN

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Order No: 20190508200

Мар Кеу	Numbe Record	r of s	Direction/ Distance (m)	Elev/Diff (m)	Site		DB	
Generator No Status: Approval Yea Contam. Faci MHSW Facilit SIC Code: SIC Descriptio	o: hrs: ility: ty: on:	ON0140 Register As of Ma	700 ed ar 2019		PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin:	Canada		
<u>Detail(s)</u>								
Waste Class: Waste Class I	Desc:		221 I Light fuels					
Waste Class: Waste Class	Desc:		251 L Waste oils/sludges	(petroleum based)				
Waste Class: Waste Class	Desc:		213 T Petroleum distillate	s				
Waste Class: Waste Class	Desc:		211 H Aromatic solvents a	and residues				
Waste Class: Waste Class I	Desc:		252 L Waste crankcase o	ils and lubricants				
Waste Class: Waste Class I	Desc:		252 T Waste crankcase o	ils and lubricants				
<u>12</u>	8 of 16		NNW/69.6	209.3 / 0.44	PILEN CONSTRUCT RR #9, 22 CADETT/ BRAMPTON ON L61	TON OF CANADA LTD. A ROAD T 3Z8	GEN	
Generator No):	ON0140	700		PO Box No:			
Approval Yea Contam. Facil	Status: Approval Years: Contam Facility:		3,89		Choice of Contact: Co Admin:			
MHSW Facility: SIC Code: SIC Description:		4122	WATERWORKS &	SEWAGE	Phone No Admin:			
<u>Detail(s)</u>								
Waste Class: Waste Class I	Desc:		213 PETROLEUM DIS ⁻	TILLATES				
Waste Class: Waste Class	Desc:		251 OIL SKIMMINGS &	SLUDGES				
Waste Class: Waste Class I	Desc:		252 WASTE OILS & LU	IBRICANTS				
<u>12</u>	9 of 16		NNW/69.6	209.3 / 0.44	PILEN CONSTRUCT 22 CADETTA ROAD BRAMPTON ON L6F	TON OF CANADA LIMITED	GEN	
Generator No):	ON0140	700		PO Box No: Country:	Canada		
Approval Yea Contam. Faci MHSW Facilit	nrs: lity: !y:	2015 No No			Choice of Contact: Co Admin: Phone No Admin:	CO_OFFICIAL		
SIC Code: 532410 SIC Description:			CONSTRUCTION, TRANSPORTATION, MINING, AND FORESTRY MACHINERY AND EQUIPMENT RENTAL					

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Order No: 20190508200

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Map Key Number of Records		Direction/ Distance (m)	Elev/Diff (m)	Site		DB	
			AND LEASING				
<u>Detail(s)</u>							
Waste Class: Waste Class	Desc:		221 LIGHT FUELS				
Waste Class: Waste Class	Desc:		251 OIL SKIMMINGS &	SLUDGES			
Waste Class: Waste Class	Desc:		213 PETROLEUM DIST	ILLATES			
Waste Class: Waste Class	Desc:		211 AROMATIC SOLVE	NTS			
Waste Class: Waste Class	Desc:		252 WASTE OILS & LUI	BRICANTS			
<u>12</u>	10 of 16		NNW/69.6	209.3 / 0.44	PILEN CONSTRUCTI 22 CADETTA ROAD BRAMPTON ON L6P0	ON OF CANADA LIMITED 0X4	GEN
Generator No Status: Approval Yea Contam. Facilit MHSW Facilit SIC Code: SIC Descripti	o: ars: ility: ty: ion:	ON0140 ⁻ 2016 No 532410	700 CONSTRUCTION, ⁻ AND LEASING	TRANSPORTATIO	PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin: ON, MINING, AND FORES ⁻	Canada CO_OFFICIAL TRY MACHINERY AND EQUI	PMENT RENTAL
<u>Detail(s)</u>							
Waste Class: Waste Class	Desc:		252 WASTE OILS & LUI	BRICANTS			
Waste Class: Waste Class	Desc:		211 AROMATIC SOLVE	NTS			
Waste Class: Waste Class	Desc:		221 LIGHT FUELS				
Waste Class: Waste Class	Desc:		213 PETROLEUM DIST	ILLATES			
Waste Class: Waste Class	Desc:		251 OIL SKIMMINGS &	SLUDGES			
<u>12</u>	11 of 16		NNW/69.6	209.3 / 0.44	PILEN CONSTRUCTI 22 CADETTA ROAD BRAMPTON ON	ON OF CANADA LIMITED	GEN
Generator No):	ON0140	700		PO Box No:		
Status: Approval Yea Contam. Faci MHSW Facili	ars: ility: ty:	2013			<i>Country:</i> Choice of Contact: Co Admin: Phone No Admin:		
SIC Code: SIC Descripti	ion:	532410	CONSTRUCTION, ⁻ AND LEASING	TRANSPORTATIO	ON, MINING, AND FORES	TRY MACHINERY AND EQUI	PMENT RENTAL

Мар Кеу	Number Records	of S	Direction/ Distance (m)	Elev/Diff (m)	Site		DB	
<u>Detail(s)</u>								
Waste Class: Waste Class	Desc:		213 PETROLEUM DIST	ILLATES				
Waste Class: Waste Class	Desc:		221 LIGHT FUELS					
Waste Class: Waste Class	Desc:		211 AROMATIC SOLVE	NTS				
Waste Class: Waste Class	Desc:		252 WASTE OILS & LUI	BRICANTS				
Waste Class: Waste Class	Desc:		251 OIL SKIMMINGS &	SLUDGES				
<u>12</u>	12 of 16		NNW/69.6	209.3 / 0.44	PILEN CONSTRUCTI 22 CADETTA ROAD BRAMPTON ON L6P	ION OF CANADA LIMITED 0X4	GEN	
Generator No Status:):	ON01407	700		PO Box No: Country:			
Approval Yea Contam. Facility	ars: ility: tv:	2009			Choice of Contact: Co Admin: Phone No Admin:			
SIC Code: SIC Descripti	ion:	532410	Construction Transp	portation Mining an	d Forestry Machinery and	Equipment Rental and Leasing		
<u>Detail(s)</u>								
Waste Class: Waste Class	Desc:		211 AROMATIC SOLVE	NTS				
Waste Class: Waste Class	Desc:		213 PETROLEUM DIST	ILLATES				
Waste Class: Waste Class	Desc:		251 OIL SKIMMINGS &	SLUDGES				
Waste Class: Waste Class	Desc:		252 WASTE OILS & LUI	BRICANTS				
<u>12</u>	13 of 16		NNW/69.6	209.3 / 0.44	PILEN CONSTRUCTI 22 CADETTA ROAD BRAMPTON ON L6P	ION OF CANADA LIMITED 0X4	GEN	
Generator No) <i>:</i>	ON01407	700		PO Box No:			
Status: Approval Yea Contam. Faci MHSW Facilit	ars: ility: ty:	2014 No No			<i>Country: Choice of Contact: Co Admin: Phone No Admin:</i>	Canada CO_OFFICIAL		
SIC Code: SIC Description:		532410	CONSTRUCTION, TRANSPORTATION, MINING, AND FORESTRY MACHINERY AND EQUIPMEN AND LEASING					
<u>Detail(s)</u>								
Waste Class: Waste Class	Desc:		213 PETROLEUM DIST	ILLATES				
Waste Class: Waste Class	Desc:		251 OIL SKIMMINGS &	SLUDGES				

Order No: 20190508200

Map Key Numbe Record	er of ds	Direction/ Distance (m)	Elev/Diff (m)	Site		DB		
Waste Class: Waste Class Desc:		252 WASTE OILS & LU	BRICANTS					
Waste Class: Waste Class Desc:		221 LIGHT FUELS						
Waste Class: Waste Class Desc:		211 AROMATIC SOLVE	ENTS					
<u>12</u> 14 of 16		NNW/69.6	209.3 / 0.44	PILEN CONSTRUCT 22 CADETTA ROAD BRAMPTON ON L6P	ION OF CANADA LIMITED	GEN		
Generator No:	ON0140)700		PO Box No:				
Approval Years:	2010			Choice of Contact:				
Contam. Facility: MHSW Facility:				Co Admin: Phone No Admin:				
SIC Code: SIC Description:	532410	Construction Transportation Mining and Forestry Machinery and Equipment Rental and Leasing						
<u>Detail(s)</u>								
Waste Class: Waste Class Desc:		251 OIL SKIMMINGS &	SLUDGES					
Waste Class: Waste Class Desc:		213 PETROLEUM DIST	ILLATES					
Waste Class: Waste Class Desc:		252 WASTE OILS & LU	BRICANTS					
Waste Class: Waste Class Desc:		211 AROMATIC SOLVE	ENTS					
<u>12</u> 15 of 16		NNW/69.6	209.3 / 0.44	PILEN CONSTRUCT 22 CADETTA ROAD BRAMPTON ON L6P	ION OF CANADA LIMITED 20X4	GEN		
Generator No: Status: Approval Years: Contam. Facility: MHSW Facility: SIC Code: SIC Description:	ON0140 Registe As of De	0700 red ec 2018		PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin:	Canada			
<u>Detail(s)</u>								
Waste Class: Waste Class Desc:		211 H Aromatic solvents a	ind residues					
Waste Class: Waste Class Desc:		213 T Petroleum distillates	5					
Waste Class: Waste Class Desc:		221 I Light fuels						
Waste Class: Waste Class Desc:		251 L Waste oils/sludges	(petroleum based)					
Waste Class:		252 L						
Мар Кеу	Numbe Record	er of Is	Direction/ Distance (m)	Elev/Diff (m)	Site		DB	
---	--	----------------------------------	---	---	--	--	-------------------	
Waste Class	Desc:		Waste crankcase o	ils and lubricants				
Waste Class Waste Class	:: s Desc:		252 T Waste crankcase o	ils and lubricants				
<u>12</u>	16 of 16		NNW/69.6	209.3 / 0.44	PILEN CONST OF CA 22 CADETTA RD RF BRAMPTON ON L6T	ANADA INC ? 9 ?3Z8	PRT	
Location ID: Type: Expiry Date: Capacity (L). Licence #:	:		19315 retail 1993-01-31 2000 0076350479					
<u>13</u>	1 of 40		NW/79.1	207.1/-1.79	TRISTAR COATINGS 18 CADETTA RD., LO BRAMPTON CITY OI	S, DIV. OF TREBOR IND. DT 8/CON.II N L6T 3Z8	СА	
Certificate #. Application Issue Date: Approval Ty, Status: Application Client Name Client Addre	: Year: pe: Type: : : sss:		8-3399-95-006 95 11/24/95 Industrial air Approved					
Client City: Client Posta Project Desc Contaminan Emission Co	l Code: cription: ts: ontrol:		LIQUID PAINT CO/ Suspended Particul Organic Compound Panel Filter, Bagho	ATING/BATCHING late Matter, Methyl ls use (Incl Vent Fil.)	G/MIX PROC. Ethyl Ketone (Butanone),	Toluene(Pentyl Methane)(Methy	l Benzene), Other	
<u>13</u>	2 of 40		NW/79.1	207.1 / -1.79	TRISTAR COATINGS 18 Cadetta Road BRAMPTON ON L6P	S LTD 9 0X4	GEN	
Generator N Status: Approval Ye Contam. Fac MHSW Facili SIC Code: SIC Descript	lo: pars: cility: ity: tion:	ON10557 Registere As of Ma	700 ed r 2019		PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin:	Canada		
<u>Detail(s)</u>								
Waste Class Waste Class	: : Desc:		145 T Wastes from the us	e of pigments, coa	atings and paints			
Waste Class Waste Class	: : Desc:		211 H Aromatic solvents a	and residues				
Waste Class Waste Class	: Desc:		252 L Waste crankcase o	ils and lubricants				
Waste Class Waste Class	: ; Desc:		145 L Wastes from the us	e of pigments, coa	atings and paints			
Waste Class	:		232 H					

Map Key Numbe Record	er of Is	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Waste Class Desc:		Polymeric resins				
Waste Class: Waste Class Desc:		145 H Wastes from the us	e of pigments, coa	atings and paints		
Waste Class: Waste Class Desc:		212 H Aliphatic solvents a	nd residues			
<u>13</u> 3 of 40		NW/79.1	207.1 / -1.79	TRISTAR COATINGS TRISTAR COATINGS R.R. #9 BRAMPTON ON L6P	S LTD S LTD 18 CADETTA ROAD, 0X4	GEN
Generator No:	ON1055	5700		PO Box No:		
Status: Approval Years:	05,06,07	7,08		Country: Choice of Contact:		
Contam. Facility: MHSW Facility:				Co Admin: Phone No Admin:		
SIC Code: SIC Description:	325510	Paint and Coating	Manufacturing			
<u>Detail(s)</u>						
Waste Class: Waste Class Desc:		145 PAINT/PIGMENT/C	COATING RESIDU	IES		
Waste Class: Waste Class Desc:		212 ALIPHATIC SOLVE	INTS			
Waste Class: Waste Class Desc:		232 POLYMERIC RESI	NS			
Waste Class: Waste Class Desc:		252 WASTE OILS & LU	BRICANTS			
Waste Class: Waste Class Desc:		211 AROMATIC SOLVE	ENTS			
<u>13</u> 4 of 40		NW/79.1	207.1/-1.79	TRISTAR COATINGS 18 Cadetta Road BRAMPTON ON L6P	S LTD 0X4	GEN
Generator No:	ON1055	5700		PO Box No:		
Status: Approval Years: Contam. Facility: MHSW Facility:	2016 No No			Country: Choice of Contact: Co Admin: Phone No Admin:	Canada CO_OFFICIAL David Moher 905-794-1100 Ext 21	
SIC Code: SIC Description:	325510	PAINT AND COAT	ING MANUFACTU	JRING		
<u>Detail(s)</u>						
Waste Class: Waste Class Desc:		252 WASTE OILS & LU	BRICANTS			
Waste Class: Waste Class Desc:		211 AROMATIC SOLVE	ENTS			
Waste Class: Waste Class Desc:		212 ALIPHATIC SOLVE	ENTS			
Waste Class: Waste Class Desc:		232 POLYMERIC RESI	NS			

Мар Кеу	Numbe Record	r of Is	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Waste Class Waste Class	: Desc:		145 PAINT/PIGMENT/C	OATING RESIDU	IES	
<u>13</u>	5 of 40		NW/79.1	207.1/-1.79	TRISTAR COATINGS LTD 18 CADETTA ROAD BRAMPTON ON L6T 3Z8	GEN
Generator No Status: Approval Yea Contam. Fac MHSW Facili SIC Code: SIC Descript	o: ars: illity: ity: iion:	ON105570 02,03,04	00		PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin:	
<u>Detail(s)</u>						
Waste Class Waste Class	: Desc:		145 PAINT/PIGMENT/C	OATING RESIDU	IES	
Waste Class Waste Class	: Desc:	:	211 AROMATIC SOLVE	ENTS		
Waste Class Waste Class	: Desc:	:	212 ALIPHATIC SOLVE	INTS		
Waste Class Waste Class	: Desc:		252 WASTE OILS & LU	BRICANTS		
<u>13</u>	6 of 40		NW/79.1	207.1/-1.79	TRISTAR COATINGS DIVISION 18 CADETTA ROAD BRAMPTON ON L6T 3Z8	GEN
Generator No	o:	ON105570	00		PO Box No: Country:	
Approval Ye Contam. Fac MHSW Facili	ars: :ility: itv:	97,98,99,0	0,01		Choice of Contact: Co Admin: Phone No Admin:	
SIC Code: SIC Descript	ion:	3751 I	PAINT & VARNISH	IND.		
<u>Detail(s)</u>						
Waste Class Waste Class	: Desc:	:	211 AROMATIC SOLVE	ENTS		
Waste Class Waste Class	: Desc:		145 PAINT/PIGMENT/C	OATING RESIDU	ES	
Waste Class Waste Class	: Desc:	:	212 ALIPHATIC SOLVE	INTS		
Waste Class Waste Class	: Desc:		252 WASTE OILS & LU	BRICANTS		
<u>13</u>	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 N	0:	ON105570	00		PO Box No:	

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Мар Кеу	Number Records	of	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Status: Approval Yea Contam. Faci MHSW Facilit SIC Code: SIC Description	rs: lity: y: on:	2009 325510	Paint and Coating M	lanufacturing	Country: Choice of Contact: Co Admin: Phone No Admin:	
<u>Detail(s)</u>						
Waste Class: Waste Class I	Desc:		145 PAINT/PIGMENT/C	OATING RESIDU	ES	
Waste Class: Waste Class I	Desc:		211 AROMATIC SOLVE	INTS		
Waste Class: Waste Class I	Desc:		212 ALIPHATIC SOLVE	NTS		
Waste Class: Waste Class I	Desc:		232 POLYMERIC RESIN	NS		
Waste Class: Waste Class I	Desc:		252 WASTE OILS & LUI	BRICANTS		
<u>13</u>	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	:	ON10557	700		PO Box No:	
Approval Years: Contam. Facility:	2011			Country. Choice of Contact: Co Admin		
SIC Code: SIC Description	MHSW Facility: SIC Code: 325510 SIC Description:		Paint and Coating M	lanufacturing	Phone No Admin:	
<u>Detail(s)</u>						
Waste Class: Waste Class I	Desc:		252 WASTE OILS & LUI	BRICANTS		
Waste Class: Waste Class I	Desc:		145 PAINT/PIGMENT/C	OATING RESIDU	ES	
Waste Class: Waste Class I	Desc:		232 POLYMERIC RESIN	NS		
Waste Class: Waste Class I	Desc:		211 AROMATIC SOLVE	INTS		
Waste Class: Waste Class I	Desc:		212 ALIPHATIC SOLVE	NTS		
<u>13</u>	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	:	ON10557	700		PO Box No:	
Status: Approval Yea Contam. Faci	rs: lity:	2012			Country: Choice of Contact: Co Admin:	
MHSW Facilit SIC Code:	y:	325510			Phone No Admin:	

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Мар Кеу	Numbe Record	r of 's	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
SIC Description	on:		Paint and Coating N	Manufacturing			
<u>Detail(s)</u>							
Waste Class: Waste Class I	Desc:		232 POLYMERIC RESI	NS			
Waste Class: Waste Class I	Desc:		145 PAINT/PIGMENT/C	OATING RESIDU	JES		
Waste Class: Waste Class I	Desc:		252 WASTE OILS & LU	BRICANTS			
Waste Class: Waste Class I	Desc:		211 AROMATIC SOLVE	ENTS			
Waste Class: Waste Class I	Desc:		212 ALIPHATIC SOLVE	INTS			
<u>13</u>	10 of 40		NW/79.1	207.1/-1.79	TRISTAR COATINGS TRISTAR COATINGS BRAMPTON ON L6P	LTD LTD 18 CADETTA ROAD, 0X4	GEN
Generator No Status: Approval Yea Contam. Facil MHSW Facilit SIC Code: SIC Descriptio	: rs: lity: y: on:	ON1055 2014 No No 325510	700 PAINT AND COATI	NG MANUFACTU	PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin: JRING	Canada CO_OFFICIAL Svetlana Melkova 905-794-1100 Ext.21	
<u>Detail(s)</u>							
Waste Class: Waste Class I	Desc:		252 WASTE OILS & LU	BRICANTS			
Waste Class: Waste Class I	Desc:		232 POLYMERIC RESI	NS			
Waste Class: Waste Class I	Desc:		211 AROMATIC SOLVE	ENTS			
Waste Class: Waste Class I	Desc:		212 ALIPHATIC SOLVE	NTS			
Waste Class: Waste Class I	Desc:		145 PAINT/PIGMENT/C	OATING RESIDU	JES		
<u>13</u>	11 of 40		NW/79.1	207.1/-1.79	TRISTAR COATINGS TRISTAR COATINGS BRAMPTON ON	LTD LTD 18 CADETTA ROAD,	GEN
Generator No	c.	ON1055	700		PO Box No:		
Status: Approval Yea Contam. Facilit MHSW Facilit	rs: lity:	2013			Country: Choice of Contact: Co Admin: Phone No Admin:		
SIC Code: SIC Description	y. on:	325510	PAINT AND COATI	NG MANUFACTL	JRING		

<u>Detail(s)</u>

Мар Кеу	Number Records	of	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
	necora.	,	Distance (iii)	(111)			
Waste Class:			252				
Waste Class	Desc:		WASTE OILS & L	UBRICANTS			
Waste Class:			232				
Waste Class	Desc:		POLYMERIC RES	SINS			
Waste Class:			212				
Waste Class	Desc:		ALIPHATIC SOLV	'ENTS			
Waste Class:			145				
Waste Class	Desc:		PAINT/PIGMENT/	COATING RESIDU	ES		
Waste Class			211				
Waste Class	Desc:		AROMATIC SOLV	/ENTS			
<u>13</u>	12 of 40		NW/79.1	207.1 / -1.79	TRISTAR COATINGS TRISTAR COATINGS R.R. #9 BRAMPTON ON L6P	S LTD S LTD 18 CADETTA ROAD, 9 0X4	GEN
Generator No):	ON10557	700		PO Box No:		
Status:		0040			Country:		
Approval Yea	nrs:	2010			Choice of Contact:		
Contam. Faci	iity:				Co Admin: Dhana Na Admini		
SIC Code:	у.	325510			Phone No Admin.		
SIC Descripti	on-	525510	Paint and Coating	Manufacturing			
olo Descripti	011.		r ant and obating	Manufacturing			
<u>Detail(s)</u>							
Waste Class:			145				
Waste Class	Desc:		PAINT/PIGMENT/	COATING RESIDU	ES		
Waste Class:			212				
Waste Class	Desc:		ALIPHATIC SOLV	'ENTS			
			044				
Waste Class:	Docor			/ENTS			
waste class	Desc:		AROMATIC SOLV	ENIS			
Waste Class			252				
Waste Class	Desc:		WASTE OILS & L	UBRICANTS			
Waste Class:			232				
Waste Class	Desc:		POLYMERIC RES	SINS			
<u>13</u>	13 of 40		NW/79.1	207.1 / -1.79	TRISTAR COATINGS 18 Cadetta Road BRAMPTON ON L6P	S LTD 9 0X4	GEN
Gonorator No			700		PO Boy No.		
Status:		01110337	700		PO BOX NO.	Canada	
Annroval Yea	irs.	2015			Choice of Contact:		
Contam. Faci	litv:	No			Co Admin:	Svetlana Melkova	
MHSW Facilit	iv:	No			Phone No Admin:	905-794-1100 Ext.21	
SIC Code:	•	325510					
SIC Descripti	on:		PAINT AND COA	TING MANUFACTU	RING		
<u>Detail(s)</u>							
Waste Class:			145				
Waste Class	Desc:		PAINT/PIGMENT/	COATING RESIDU	ES		
W			050				
waste Class:			252				
82	erisinfo.co	m Envir	onmental Risk In	formation Service	s	Order No: 2	20190508200

Map Key Numbe Record	er of Direction/ Is Distance (m)	Elev/Diff (m)	Site	DB
Waste Class Desc:	WASTE OILS & LU	BRICANTS		
Waste Class: Waste Class Desc:	232 POLYMERIC RESI	NS		
Waste Class: Waste Class Desc:	212 ALIPHATIC SOLVE	INTS		
Waste Class: Waste Class Desc:	211 AROMATIC SOLVE	ENTS		
<u>13</u> 14 of 40	NW/79.1	207.1 / -1.79	TRISTAR COATINGS DIVISION OF TREBOR 18 CADETTA RD. R.R. BRAMPTON ON L6T 3Z8	.#9 GEN
Generator No:	ON1055700		PO Box No:	
Status:	88 89 90		Country: Choice of Contact:	
Contam. Facility:	00,00,00		Co Admin:	
MHSW Facility:	2751		Phone No Admin:	
SIC Code: SIC Description:	PAINT & VARNISH	IND.		
<u>Detail(s)</u>				
Waste Class: Waste Class Desc:	145 PAINT/PIGMENT/C	OATING RESIDU	JES	
Waste Class: Waste Class Desc:	212 ALIPHATIC SOLVE	INTS		
<u>13</u> 15 of 40	NW/79.1	207.1/-1.79	TRISTAR COATINGS LTD 18 Cadetta Road BRAMPTON ON L6P 0X4	GEN
Generator No: Status: Approval Years: Contam. Facility: MHSW Facility: SIC Code: SIC Description:	ON1055700 Registered As of Dec 2018		PO Box No: Country: Canada Choice of Contact: Co Admin: Phone No Admin:	
<u>Detail(s)</u>				
Waste Class: Waste Class Desc:	145 H Wastes from the us	e of pigments, coa	atings and paints	
Waste Class: Waste Class Desc:	145 L Wastes from the us	e of pigments, coa	atings and paints	
Waste Class: Waste Class Desc:	145 T Wastes from the us	e of pigments, coa	atings and paints	
Waste Class: Waste Class Desc:	211 H Aromatic solvents a	and residues		
Waste Class: Waste Class Desc:	212 H Aliphatic solvents a	nd residues		
Waste Class: Waste Class Desc:	232 H Polymeric resins			

Number Records	r of S	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
esc:		252 L Waste crankcase o	ils and lubricants			
16 of 40		NW/79.1	207.1 / -1.79	TRISTAR COATING 18 CADETTA ROAD BRAMPTON ON L61	S DIVISION 38-534 - 3Z8	GEN
	ON1055	700		PO Box No:		
s: ty:	92,93,94	,95,96		Choice of Contact: Co Admin:		
n:	3751	PAINT & VARNISH	IND.	Phone No Admini.		
esc:		145 PAINT/PIGMENT/C	OATING RESIDU	ES		
esc:		211 AROMATIC SOLVE	ENTS			
esc:		212 ALIPHATIC SOLVE	ENTS			
esc:		252 WASTE OILS & LU	BRICANTS			
17 of 40		NW/79.1	207.1/-1.79	TRISTAR COATING 18 CADETTA ROAD BRAMPTON ON L6F	S LTD. NOT AVAILABLE 20X4	NPRI
ot?: I Rpt: I Rpt):	4425 127396 51492 NPRI 1 2014 No 2014 224562 TRISTAF 18 CADE NOT AV/ L6P0X4 43.8144 -79.6805	R COATINGS LTD. ETTA ROAD AILABLE		Org ID: Submit Date: Last Modified: Contact ID: Cont Type: Contact Title: Cont First Name: Cont Last Name: Contact Position: Contact Fax: Contact Fax: Contact Ph.: Cont Area Code: Contact Tel.: Contact Tel.: Contact Ext.: Cont Fax Area Cde: Contact Fax: Contact Fax	103016 5/19/2015 6/10/2015 10:59:04 AM 230549 MEM BRIAN WHISTON PRESIDENT 9057941100 905 57941100 16 BRIAN@TRISTARCOATINGS.CA 43.8144 -79.6805	
	Number Records esc: 6 of 40 5: 57 57 57 57 57 57 57 57 57 57 57 57 57	Number of Records esc: 6 of 40 ON10557 92,93,94 y: 3751 3751 r: esc: esc: </td <td>Number of RecordsDirection/ Distance (m)252 L esc:252 L Waste crankcase o6 of 40NW/79.1ON10557003751 r:92,93,94,95,963751 r:PAINT & VARNISHesc:145 PAINT & VARNISHesc:145 PAINT/PIGMENT/C 211 esc:211 esc:211 AROMATIC SOLVE 252 esc:212 esc:212 ALIPHATIC SOLVE 252 esc:213 c212 ALIPHATIC SOLVE 252 esc:214 c212 ALIPHATIC SOLVE 252 esc:215 c212 ALIPHATIC SOLVE 252 esc:216 c212 ALIPHATIC SOLVE 252 esc:217 c4425127396 51492 NPRI 1 2014 224562 TRISTAR COATINGS LTD. 18 CADETTA ROAD NOT AVAILABLE L6POX4 43.8144 -79.68051 Rpt):1 TO AND TAVAILABLE L6POX4 43.8144 -79.6805</td> <td>Number of Records Direction/ Distance (m) Elev/Diff (m) 252 L 252 L esc: Waste crankcase oils and lubricants 6 of 40 NW/79.1 207.1/-1.79 ON1055700 92,93,94,95,96 92 92,93,94,95,96 92 3751 PAINT & VARNISH IND. esc: 145 PAINT & VARNISH IND. esc: 211 esc: 211 esc: 212 esc: 212 esc: 212 esc: 252 WASTE OILS & LUBRICANTS 7 of 40 NW/79.1 207.1/-1.79 4425 127396 51492 NPRI 1 2014 224562 TRISTAR COATINGS LTD. 18 CADETTA ROAD NOT AVALLABLE L6P0X4 43.8144 -79.6805 1</td> <td>Number of Direction/ Distance (m) (m) Site Records 252 L SSC: Waste crankcase oils and lubricants 6 of 40 NW/79.1 207.1 / -1.79 TRISTAR COATING: 18 CADETTA ROAD ON1055700 PO Box No: Country: Choice of Contact: 92,93,94,95,96 Contact: 92,93,94,95,96 Contact: 92,93,94,95,96 Contact: 92,93,94,95,96 Contact: 92,93,94,95,96 Contact: 92,93,94,95,96 Contact: 9400 Admin: 145 PAINT & VARNISH IND. 145 PAINT & VARNISH IND. 145 PSC: ALIPHATIC SOLVENTS 212 252 PSC: WASTE OILS & LUBRICANTS 7 of 40 NW/79.1 207.1 / -1.79 TRISTAR COATING: 127396 Contact Title: 127396 Contact Title: 2014 Contact Title: 127396 Contact Fax: 2014 Contac</td> <td>Number of Direction/ Elew/Diff Site Records Distance (m) (m) 2521 sec: 2521 Waste crankcase oils and lubricants 6 of 40 NW/79.1 207.1 /-1.79 TRISTAR COATINGS DIVISION 38-534 18 CADETTA ROAD BRAMPTON ON LGT 328 ON1055700 PO Box No: Country: Country: Country: Country: Contact: Co Admin: 7751 70 40 NW/79.1 207.1 /-1.79 TRISTAR COATINGS LTD. 1212 12 12 12 12 12 1 1 1 1 207.1 /-1.79 TRISTAR COATINGS LTD. 127396 51492 VMSTE OILS & LUBRICANTS 70 40 NW/79.1 207.1 /-1.79 TRISTAR COATINGS LTD. 127396 51492 VMSTE OILS & LUBRICANTS 70 40 NW/79.1 207.1 /-1.79 TRISTAR COATINGS LTD. 127396 51492 VMSTE OILS & LUBRICANTS 70 40 NW/79.1 207.1 /-1.79 TRISTAR COATINGS LTD. 127396 51492 Contact Paint Set Modified Signampton ON LBP0X4 4425 Org ID: 103016 Submit Date: 519/2015 Submit Contact Frax: 2014 Contact Frax: 2015 Contact Frax: 2015 Contact Frax: 2016 Contact Frax: 2017 Contact Frax: 2016 Contact Frax: 201 Contact Frax:</td>	Number of RecordsDirection/ Distance (m)252 L esc:252 L Waste crankcase o6 of 40NW/79.1ON10557003751 r:92,93,94,95,963751 r:PAINT & VARNISHesc:145 PAINT & VARNISHesc:145 PAINT/PIGMENT/C 211 esc:211 esc:211 AROMATIC SOLVE 252 esc:212 esc:212 ALIPHATIC SOLVE 252 esc:213 c212 ALIPHATIC SOLVE 252 esc:214 c212 ALIPHATIC SOLVE 252 esc:215 c212 ALIPHATIC SOLVE 252 esc:216 c212 ALIPHATIC SOLVE 252 esc:217 c4425127396 51492 NPRI 1 2014 224562 TRISTAR COATINGS LTD. 18 CADETTA ROAD NOT AVAILABLE L6POX4 43.8144 -79.68051 Rpt):1 TO AND TAVAILABLE L6POX4 43.8144 -79.6805	Number of Records Direction/ Distance (m) Elev/Diff (m) 252 L 252 L esc: Waste crankcase oils and lubricants 6 of 40 NW/79.1 207.1/-1.79 ON1055700 92,93,94,95,96 92 92,93,94,95,96 92 3751 PAINT & VARNISH IND. esc: 145 PAINT & VARNISH IND. esc: 211 esc: 211 esc: 212 esc: 212 esc: 212 esc: 252 WASTE OILS & LUBRICANTS 7 of 40 NW/79.1 207.1/-1.79 4425 127396 51492 NPRI 1 2014 224562 TRISTAR COATINGS LTD. 18 CADETTA ROAD NOT AVALLABLE L6P0X4 43.8144 -79.6805 1	Number of Direction/ Distance (m) (m) Site Records 252 L SSC: Waste crankcase oils and lubricants 6 of 40 NW/79.1 207.1 / -1.79 TRISTAR COATING: 18 CADETTA ROAD ON1055700 PO Box No: Country: Choice of Contact: 92,93,94,95,96 Contact: 92,93,94,95,96 Contact: 92,93,94,95,96 Contact: 92,93,94,95,96 Contact: 92,93,94,95,96 Contact: 92,93,94,95,96 Contact: 9400 Admin: 145 PAINT & VARNISH IND. 145 PAINT & VARNISH IND. 145 PSC: ALIPHATIC SOLVENTS 212 252 PSC: WASTE OILS & LUBRICANTS 7 of 40 NW/79.1 207.1 / -1.79 TRISTAR COATING: 127396 Contact Title: 127396 Contact Title: 2014 Contact Title: 127396 Contact Fax: 2014 Contac	Number of Direction/ Elew/Diff Site Records Distance (m) (m) 2521 sec: 2521 Waste crankcase oils and lubricants 6 of 40 NW/79.1 207.1 /-1.79 TRISTAR COATINGS DIVISION 38-534 18 CADETTA ROAD BRAMPTON ON LGT 328 ON1055700 PO Box No: Country: Country: Country: Country: Contact: Co Admin: 7751 70 40 NW/79.1 207.1 /-1.79 TRISTAR COATINGS LTD. 1212 12 12 12 12 12 1 1 1 1 207.1 /-1.79 TRISTAR COATINGS LTD. 127396 51492 VMSTE OILS & LUBRICANTS 70 40 NW/79.1 207.1 /-1.79 TRISTAR COATINGS LTD. 127396 51492 VMSTE OILS & LUBRICANTS 70 40 NW/79.1 207.1 /-1.79 TRISTAR COATINGS LTD. 127396 51492 VMSTE OILS & LUBRICANTS 70 40 NW/79.1 207.1 /-1.79 TRISTAR COATINGS LTD. 127396 51492 Contact Paint Set Modified Signampton ON LBP0X4 4425 Org ID: 103016 Submit Date: 519/2015 Submit Contact Frax: 2014 Contact Frax: 2015 Contact Frax: 2015 Contact Frax: 2016 Contact Frax: 2017 Contact Frax: 2016 Contact Frax: 201 Contact Frax:

Elev/Diff Distance (m) (m)

Site

SIC Code Description: American SIC Code: 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

Substance Release Report

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:

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:

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:

Category Type ID:

Grouping:

Chem (fr): Quantity:

Unit:

Trans Code: Chem:

Category Type Desc:

Basis of Estimate Cd:

Basis of Estimate Desc:

18 of 40

4425

Category Type Desc (fr):

13 All Media Rejets à tous les médias Total All Media<1t Toluene Toluène .417 tonnes 0 **O- Engineering Estimates** 13 All Media Rejets à tous les médias Total All Media<1t Xylene (all isomers) Xylène (tous les isomères)

.624 tonnes Ο O- Engineering Estimates

13

All Media Rejets à tous les médias Total All Media<1t

Isopropyl alcohol Alcool iso-propylique .084 tonnes 0

O- Engineering Estimates

13 All Media Rejets à tous les médias Total All Media<1t Methyl ethyl ketone Méthyléthylcétone .25

O- Engineering Estimates

tonnes

NW/79.1

O

207.1/-1.79

Org ID:

TRISTAR COATINGS LTD

BRAMPTON ON L6P0X4

18 CADETTA ROAD NOT AVAILABLE

70696

NPRI

NPRI ID:

85

13

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Мар Кеу	Number Records	of	Direction/ Distance (m)	Elev/Diff (m)	Site		Ľ
Other ID: No Other ID: Track ID: Report ID: Report Type: Rpt Type ID: Report Year: Not-Current Rpt Yr of Last Filed Fac ID: Fac Name: Fac Address1: Fac Address2: Fac Postal Zip: Facility Lat: Facility Long: DLS (Last Filed Eacility DS	nt?: Rpt: Rpt):	N 40820 101204 NPRI 1 2005 No 2014 224562 TRISTAR 18 CADE ⁻ NOT AVA L6P0X4 43.8144 -79.6805	COATINGS LTD. TTA ROAD ILABLE		Submit Date: Last Modified: Contact ID: Contact Type: Contact Title: Cont First Name: Cont Last Name: Contact Position: Contact Fax: Contact FAx: Contact Ph.: Contact Tel.: Contact Tel.: Contact Ext.: Contact Ext.: Contact Fax: Contact Fax	6/1/2006 5/29/2015 3:28:24 PM 188563 MED MICHAEL SHILLUM GENERAL MANAGER 9057940304 9057941100 905 57941100 19 905 57940304 RMS@TRISTARCOATINGS.CA 43.8144 -79 6805	
Facility DLS: Datum: Facility Cmnts: URL:		1983 False www.trista	arcoating.ca		UTM Zone: UTM Northing: UTM Easting:	-79.0005	
No of Empl.: Parent Co.: No Parent Co.:		19 N	2		Waste Streams: No Streams: Waste Off Sites:	False Fals	
Pollut Prev Cmi Stacks: No of Stacks: Canadian SIC C SIC Code Desci American SIC C NAICS Code (2 NAICS 2 Descri NAICS Code (4 NAICS 4 Descri NAICS 6 Descri	nts: Code (2 di Code: ription: Code: digit): iption: digit): iption: digit): iption:	False False git):	32 Manufacturing 3255 Paint, coating and a 325510 Paint and coating ma	dhesive manufact	No Off Sites: Shutdown: No of Shutdown:	1.00	
Substance Rele	ease Repo	<u>ort</u>					
Category Type I Category Type I Category Type I Grouping: Trans Code: Chem: Chem (fr): Quantity: Unit: Basis of Estima Basis of Estima Category Type I Category Type I Categor	ID: Desc: Desc (fr): ate Cd: ate Desc: ID: Desc: Desc (fr):		3 Fugitive Émissions fugitives Total Air VOCs Xylene (all isomers) Xylène (tous les isor 5.8 tonnes O O- Engineering Estir 13 All Media Rejets à tous les mé Total All Media<1t MSG#2 - Hydrotreat EMG#2 - Distillat lég 488	nères) nates dias ed light distillate er hydrotraité			
Unit: Basis of Estima Basis of Estima Category Type	ate Cd: ate Desc: ID:		tonnes				

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Category Ty, Category Ty, Grouping: Trans Code: Chem: Chem (fr): Quantity: Unit: Basis of Est Basis of Est	pe Desc: pe Desc (fr): imate Cd: imate Desc:	All Media Rejets à tous les mé Total All Media<1t MSG#1 - Solvent na EMG#1 - Solvant na .004 tonnes	idias uphtha medium a uphta aliphatique	aliphatic • moyen	
Category Ty, Category Ty, Category Ty, Grouping: Trans Code: Chem: Chem (fr): Quantity: Unit: Basis of Esta Basis of Esta	pe ID: pe Desc: pe Desc (fr): imate Cd: imate Desc:	13 All Media Rejets à tous les mé Total All Media<1t Toluene Toluène .978 tonnes	dias		
Category Ty, Category Ty, Grouping: Trans Code: Chem: Chem (fr): Quantity: Unit: Basis of Est	pe ID: pe Desc: pe Desc (fr): imate Cd: imate Desc:	13 All Media Rejets à tous les mé Total All Media<1t Acetone Acétone .002 tonnes	dias		
Category Ty, Category Ty, Category Ty, Grouping: Trans Code: Chem: Chem: Chem (fr): Quantity: Unit: Basis of Est Basis of Est	pe ID: pe Desc: pe Desc (fr): imate Cd: imate Desc:	13 All Media Rejets à tous les mé Total All Media<1t GE - Diethylene glyo EG - Éther butylique .096 tonnes	édias col butyl ether (E e de diéthylènegi	DEGBE) ycol (DEGBE)	
Category Ty, Category Ty, Category Ty, Grouping: Trans Code: Chem: Chem: Chem: Chem (fr): Quantity: Unit: Basis of Est	pe ID: pe Desc: pe Desc (fr): imate Cd: imate Desc:	13 All Media Rejets à tous les mé Total All Media<1t Ethyl acetate Acétate d'éthyle .14 tonnes	dias		
Category Ty Category Ty Category Ty Grouping: Trans Code: Chem: Chem (fr):	pe ID: pe Desc: pe Desc (fr):	13 All Media Rejets à tous les mé Total All Media<1t MSG#1 - Solvent na EMG#1 - Solvant na	edias uphtha light aliph uphta aliphatique	atic Iéger	

Map Key Numbe Record	er of Direction/ ds Distance (r	Elev/Diff n) (m)	Site		DB
Quantity: Unit: Basis of Estimate Cd: Basis of Estimate Desc	.001 tonnes				
Category Type ID: Category Type Desc: Category Type Desc (fr Grouping: Trans Code: Chem: Chem: Chem (fr): Quantity: Unit: Basis of Estimate Cd: Basis of Estimate Desc	13 All Media Rejets à tous les Total All Media< GE - Propylene EG - Acétate d'é .185 tonnes	s médias :1t glycol methyl ether a ther méthylique de p	acetate (PGMEA) propylèneglycol (PGMEA)		
Category Type ID: Category Type Desc: Category Type Desc (fi Grouping: Trans Code: Chem: Chem (fr): Quantity: Unit: Basis of Estimate Cd: Basis of Estimate Desc	3 Fugitive ý: Émissions fugiti Total Air VOCs Methyl ethyl ketu Méthyléthylcétou 1.44 tonnes O c: O- Engineering	ves one ne Estimates			
<u>13</u> 19 of 40	NW/79.1	207.1/-1.79	TRISTAR COATINGS 18 CADETTA ROAD I BRAMPTON ON L6P0	LTD. NOT AVAILABLE 0X4	NPRI
NPRI ID: Other ID: No Other ID: Track ID: Report ID: Report Type: Rpt Type ID: Report Year: Not-Current Rpt?: Yr of Last Filed Rpt: Fac ID: Fac Name: Fac Address1: Fac Address2: Fac Postal Zip: Facility Lat: Facility Lat: Facility Lat: Facility DLS: Datum: Facility Cmnts: URL: No of Empl.: Parent Co.: No Parent Co.: Pollut Prev Cmnts: Stacks: No of Stacks: Canadian SIC Code: SIC Code Description:	4425 78047 25878 NPRI 1 2012 No 2014 224562 TRISTAR COATINGS LTI 18 CADETTA ROAD NOT AVAILABLE L6P0X4 43.8144 -79.6805 1983 18).	Org ID: Submit Date: Last Modified: Contact ID: Cont Type: Contact Title: Cont First Name: Cont Last Name: Contact Position: Contact Position: Contact Position: Contact Fax: Contact Tel.: Contact Tel.: Contact Tel.: Contact Ext.: Contact Ext.: Contact Ext.: Contact Email: Latitude: Longitude: UTM Zone: UTM Northing: UTM Zone: UTM Northing: Waste Streams: No Streams: Waste Off Sites: Shutdown: No of Shutdown:	103016 11/8/2013 5/29/2015 3:28:24 PM 43.8144 -79.6805	

13 All Media

Rejets à tous les médias

Total All Media<1t

Methyl ethyl ketone

Méthyléthylcétone

Site

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

Elev/Diff

(m)

Substance Release Report

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:

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:

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:

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:

20 of 40

.19 tonnes 0 O- Engineering Estimates 13 All Media Rejets à tous les médias Total All Media<1t Toluene Toluène .316 tonnes 0 O- Engineering Estimates 13 All Media Rejets à tous les médias Total All Media<1t Isopropyl alcohol Alcool iso-propylique

.11 tonnes O O- Engineering Estimates

13 All Media Rejets à tous les médias Total All Media<1t Xylene (all isomers) Xylène (tous les isomères)

O- Engineering Estimates

.522 tonnes

NW/79.1

0

207.1 / -1.79 TRISTAR COATINGS LTD. 18 CADETTA ROAD NOT AVAILABLE BRAMPTON ON L6T 328

Org ID:

Submit Date:

Last Modified:

NPRI ID: Other ID: No Other ID: 4425 N 0.00 70697 5/31/2002

5/29/2015 3:28:24 PM

89

13

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Order No: 20190508200

NPRI

Мар Кеу	Number Records	r of s	Direction/ Distance (m)	Elev/Diff (m)	Site		D
Track ID: Report ID: Report Type: Rpt Type ID: Report Year: Not-Current R Yr of Last File Fac ID: Fac Name: Fac Address2 Fac Address2 Fac Postal Zip Facility Lat: Facility Long: DLS (Last File Facility DLS: Datum: Facility Cmnts	2pt?: d Rpt: : : : : : : : : : : : : : : : : : :	12214 NPRI 1 2001 No 2014 117648 NOT AVAIL 18 CADET NOT AVAIL L6T 3Z8	LABLE TA ROAD LABLE		Contact ID: Cont Type: Contact Title: Cont First Name: Cont Last Name: Contact Position: Contact Fax: Contact Fh.: Cont Area Code: Contact Tel.: Contact Tel.: Contact Ext.: Cont Fax Area Cde: Contact Fax: Contact Fax: Contact Fax: Contact Email: Latitude: Longitude: UTM Zone: UTM Northing:	99359 MED MICHAEL SHILLUM GENERAL MANAGER 9057940304 9057941100 905 57941100 19 905 57940304 RMS@TRISTARCOATINGS.CA 43.8144 -79.6805	
URL: No of Empl.: Parent Co.: No Parent Co. Pollut Prev Cri Stacks: No of Stacks:	: mnts:	www.tristar 17 * 1.00 No	coatings.ca		UTM Easting: Waste Streams: No Streams: Waste Off Sites: No Off Sites: Shutdown: No of Shutdown:	No 0.00 Yes 1.00	
Canadian SIC SIC Code Desi American SIC NAICS Code (1 NAICS 2 Desc NAICS Code (1 NAICS 4 Desc NAICS 6 Desc	Code: cription: Code: 2 digit): ription: 4 digit): ription: 6 digit): ription:	3 M 3 F 3 F	2 Manufacturing 255 Paint, coating and ac 25510 Paint and coating ma	Ihesive manufac	turing		
Substance Re Category Type Category Type Grouping: Trans Code: Chem: Chem (fr): Quantity: Unit: Basis of Estim Basis of Estim	<u>lease Rep</u> e ID: e Desc: e Desc (fr) nate Cd: nate Desc:	<u>ort</u> 5 5 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	G Gugitive Emissions fugitives otal Air /OCs /lethyl ethyl ketone /léthyléthylcétone 195 onnes O D- Engineering Estin	nates			
Category Type Category Type Category Type Grouping: Trans Code: Chem: Chem: Chem (fr): Quantity: Unit: Basis of Estin Basis of Estin Category Type	e ID: e Desc: e Desc (fr) nate Cd: nate Desc: e ID:	3 F T V T T C C 3	Gugitive Emissions fugitives Total Air /OCs Toluene Toluène 115 onnes Onnes O- Engineering Estin	nates			
Category Type Category Type	e Desc: e Desc (fr)	: É	Eugitive Emissions fugitives				

Map Key Number Records	r of Di s Di	rection/ stance (m)	Elev/Diff (m)	Site		DB
Grouping: Trans Code: Chem: Chem (fr): Quantity: Unit: Basis of Estimate Cd: Basis of Estimate Desc:	Total VOCs Xylen Xylèn .1 tonne O O- En	Air e (mixed isom e (mélange d'i s gineering Estii	ers) somères) nates			
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 Stora Total VOCg Xylen Xylen .15 tonne C C-Ma	ge / Handling s de stockage Air g e (mixed isom e (mélange d'i s s ass Balance	ou manutention ers) somères)			
<u>13</u> 21 of 40	NW/	/79.1	207.1/-1.79	TREBOR IND. TRIST 18 CADETTA ROAD BRAMPTON ON L6F	TAR COATINGS DIV. NOT AVAILABLE 20X4	NPRI
NPRI ID: Other ID: No Other ID: Track ID: Report ID: Report Type: Rpt Type ID: Report Year: Not-Current Rpt?: Yr of Last Filed Rpt: Fac ID: Fac Name: Fac Address1: Fac Address2: Fac Postal Zip: Facility Lat: Facility Lat: Facility Long: DLS (Last Filed Rpt): Facility DLS: Datum: Facility Cmnts: URL: No of Empl.: Parent Co.: No Parent Co.: Pollut Prev Cmnts: Stacks: No of Stacks: Canadian SIC Code: SIC Code Description: American SIC Code: NAICS Code (2 digit):	4425 * 0 12207 NPRI 1 1996 No 2014 48552 TRISTAR COAT 18 CADETTA R NOT AVAILABL L6P0X4 43.8144 -79.6805 1983 FALSE 14 * 0 FALSE <i>igit):</i> 32	FINGS OAD .E		Org ID: Submit Date: Last Modified: Contact ID: Cont Type: Contact Title: Cont First Name: Cont Last Name: Contact Position: Contact Position: Contact Fax: Contact Fax: Contact Tel.: Contact Tel.: Contact Ext.: Contact Ext.: Contact Fax: Contact Fax: Contact Fax: Contact Fax: UTM Zone: UTM Northing: UTM Easting: Waste Streams: No Streams: No Streams: No Off Sites: Shutdown: No of Shutdown:	20847 7/10/1997 5/29/2015 3:28:24 PM 99363 MED MICHAEL SHILLUM PLANT MANAGER 9057940304 9057941100 905 57940304 NOT AVAILABLE 43.8144 -79.6805 17 4852100 606300 FALSE 0 TRUE 1	

NAICS Code (4 digit): NAICS 4 Description: NAICS Code (6 digit): NAICS 6 Description:

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Paint, coating and adhesive manufacturing

Paint and coating manufacturing

3255

Map Key	Number of Records	<i>Direction/ Distance (m)</i>	Elev/Diff (m)	Site		DB
Substance Re	lease Report					
Category Type Category Type Category Type Grouping: Trans Code: Chem: Chem (fr): Quantity: Unit: Basis of Estin Basis of Estin Category Type Category Category Categ	e ID: e Desc: e Desc (fr): nate Cd: nate Desc: e ID: e Desc: e Desc (fr):	13 All Media Rejets à tous les m Total All Media<1t Xylene (mixed ison Xylène (mélange d .718 tonnes C C- Mass Balance 13 All Media Rejets à tous les m Total All Media<1t Toluene Toluène .478	iédias ners) 'isomères) iédias			
Unit:		tonnes				
Basis of Estin Basis of Estin	nate Cd: nate Desc:	C C- Mass Balance				
<u>13</u>	22 of 40	NW/79.1	207.1 / -1.79	TREBOR IND. TRIST 18 CADETTA ROAD BRAMPTON ON L6P	AR COATINGS DIV. NOT AVAILABLE 10X4	NPRI
NPRI ID: Other ID: No Other ID: Track ID: Report ID: Report Type: Rpt Type ID: Report Year: Not-Current R Yr of Last File Fac ID: Fac Name: Fac Address1 Fac Address2 Fac Postal Zip Facility Long: DLS (Last File Facility Long: DLS (Last File Facility Cmnts URL: No of Empl.: Parent Co.: No Parent Co. Pollut Prev Cr. Stacks: No of Stacks: Canadian SIC Canadian SIC Canadian SIC Canadian SIC SIC Code Des American SIC NAICS Code (NAICS Code (442 * 0 122 NPF 1 199 pt?: No d Rpt: 201 485 TRI: : 180 : 180 : 201 * * * * * * * * * * * * * * * * * * *	5 08 RI 8 4 52 STAR COATINGS CADETTA ROAD T AVAILABLE 0X4 1144 6805 3 Se Se 3 Se 3 Se 3 Se		Org ID: Submit Date: Last Modified: Contact ID: Cont Type: Contact Title: Cont First Name: Cont Last Name: Contact Position: Contact Position: Contact Position: Contact Ph.: Cont Area Code: Contact Tel.: Contact Ext.: Contact Ext.: Contact Ext.: Contact Ext.: Contact Ext.: Contact Ext.: Contact Ext.: Contact Ext.: Contact Email: Latitude: Longitude: UTM Zone: UTM Northing: UTM Easting: Waste Streams: No Streams: No Streams: No Off Sites: Shutdown: No of Shutdown:	20847 5/31/1999 5/29/2015 3:28:24 PM 99358 MED MICHAEL SHILLUM GENERAL MANAGER 9057940304 9057941100 905 57941100 905 57941100 905 57940304 RMS@TRISTARCOATINGS.ON.CA 43.8144 -79.6805 17 4852100 606300 False 0 Fals 1	

Map Key	Numbe Record	r of s	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
NAICS 4 Des NAICS Code NAICS 6 Des	cription: (6 digit): cription:		Paint, coating and 325510 Paint and coating r	adhesive manufac manufacturing	sturing		
Substance Re	elease Rep	<u>oort</u>					
Category Typ Category Typ Category Typ Grouping: Trans Code: Chem:	be ID: be Desc: be Desc (fr)):	13 All Media Rejets à tous les m Total All Media<1t Xylene (mixed isor	nédias ners)			
Chem (fr): Quantity: Unit: Basis of Estil Basis of Estil	mate Cd:		Xylène (mélange d .775 tonnes C C Mass Balanco	'isomères)			
Category Typ Category Typ Category Typ Grouping: Trans Code: Chem: Chem (fr): Quantity: Unit: Basis of Estin Basis of Estin	mate Desc. De ID: De Desc: De Desc (fr) mate Cd: mate Desc.	:): :	13 All Media Rejets à tous les m Total All Media<1t Methyl ethyl ketone Méthyl éthyl cétone .426 tonnes C C- Mass Balance	nédias e e			
Category Typ Category Typ Category Typ Grouping: Trans Code: Chem: Chem: Chem (fr): Quantity: Unit: Basis of Estii Basis of Estii	pe ID: pe Desc: pe Desc (fr) mate Cd: mate Desc.): :	13 All Media Rejets à tous les m Total All Media<1t Toluene Toluène .13 tonnes C C- Mass Balance	nédias			
<u>13</u>	23 of 40		NW/79.1	207.1/-1.79	TRISTAR COATING 18 CADETTA ROAD BRAMPTON ON L61	S LTD NOT AVAILABLE T 3Z8	NPRI
NPRI ID: Other ID: No Other ID: Track ID: Report ID: Report Type ID: Report Year: Not-Current I Yr of Last Fill Fac ID: Fac Name: Fac Address: Fac Address: Fac Address: Fac ID: Facility Long DLS (Last Fill	Rpt?: ed Rpt: 1: 2: 2: 2: 2: 2: 2: 2: 2: 2: 2: 2: 2: 2:	4425 * 0.00 12211 NPRI 1 2000 No 2014 117648 NOT AV 18 CADI NOT AV L6T 3Z8	AILABLE ETTA ROAD AILABLE		Org ID: Submit Date: Last Modified: Contact ID: Cont Type: Contact Title: Cont First Name: Cont Last Name: Cont Last Name: Contact Position: Contact Position: Contact Fax: Contact Ph.: Contact Ph.: Contact Ph.: Contact Tel.: Contact Tel.: Contact Ext.: Contact Fax: Contact Fax: Contact Fax: Contact Fax: Contact Fax: Contact Fax:	70696 5/31/2001 5/29/2015 3:28:24 PM 99359 MED MICHAEL SHILLUM GENERAL MANAGER 9057940304 9057941100 905 57941100 19 905 57940304 RMS@TRISTARCOATINGS.CA 43.8144	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Facility DLS: Datum: Facility Cmnts: URL: No of Empl.: Parent Co.: No Parent Co.: Pollut Prev Cmi Stacks: No of Stacks: Canadian SIC C SIC Code Desci American SIC C NAICS Code (2 NAICS 2 Descri NAICS 4 Descri	1983 False 17 * 1.00 nts: False code (2 digit): code: ription: code: digit): ption: digit): ption:	32 Manufacturing 3255 Paint coating and a	dhesive manufa	Longitude: UTM Zone: UTM Northing: UTM Easting: Waste Streams: No Streams: Waste Off Sites: No Off Sites: Shutdown: No of Shutdown:	-79.6805 No 0 Yes 1.00	
NAICS Code (6 NAICS 6 Descri	digit): ption:	325510 Paint and coating m	anufacturing			
Substance Rele	ase Report					
Category Type of Category Type of Category Type of Grouping: Trans Code: Chem: Chem: Chem (fr): Quantity: Unit: Basis of Estimation	ID: Desc: Desc (fr): tte Cd: tte Desc:	2 Storage / Handling Rejets de stockage o Total Air VOCg Xylene (mixed isome Xylène (mélange d'is .135 tonnes C C- Mass Balance	ou manutention ers) somères)			
Category Type (Category Type) Category Type (Grouping: Trans Code: Chem: Chem (fr): Quantity: Unit: Basis of Estima Basis of Estima	ID: Desc: Desc (fr): nte Cd: nte Desc:	3 Fugitive Émissions fugitives Total Air VOCs Methyl ethyl ketone Méthyléthylcétone .255 tonnes O O- Engineering Estir	nates			
Category Type I Category Type I Grouping: Trans Code: Chem: Chem (fr): Quantity: Unit: Basis of Estima Basis of Estima Category Type I Category Type I Category Type I Grouping: Trans Code:	ID: Desc: Desc (fr): Me Cd: Me Desc: ID: Desc: Desc (fr):	3 Fugitive Émissions fugitives Total Air VOCs Xylene (mixed isome Xylène (mélange d'is .1 tonnes O O- Engineering Estir 3 Fugitive Émissions fugitives Total Air VOCs	ers) somères) nates			
Chem:		Toluene				

Map Key	Number Records	r of S	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Chem (fr): Quantity: Unit: Basis of Esti Basis of Esti	imate Cd: imate Desc:		Toluène .13 tonnes O O- Engineering Esti	mates			
<u>13</u>	24 of 40		NW/79.1	207.1/-1.79	TRISTAR COATINGS 18 CADETTA ROAD BRAMPTON ON L6P	S LTD. NOT AVAILABLE 0X4	NPRI
NPRI ID: Other ID: No Other ID: Track ID: Report ID: Report Type. Rpt Type ID: Report Year: Not-Current I Yr of Last Fil Fac ID: Fac Name: Fac Address Fac Address Fac Postal Z Facility Lat: Facility Lat: Facility Lat: Facility Lat: Facility Lat: Facility Long DLS (Last Fil Facility Long DLS (Last Fil Facility CmI URL: No of Empl.: Parent Co.: No Parent Co. Stacks: No of Stacks Canadian SIC Canadian SIC Canadian SIC SIC Code De American SIC NAICS Code NAICS Code NAICS Code NAICS Code NAICS Code NAICS Code NAICS Code	Rpt?: led Rpt: 1: 2: ip: ip: f: led Rpt): ts: Code (2 d C Code (2 d C Code: scription: C Code: (2 digit): cription: (4 digit): cription: (6 digit): cription:	4425 101756 6319 NPRI 1 2011 No 2014 224562 TRISTAF 18 CADE NOT AV/ L6P0X4 43.8144 -79.6805 1983 18 igit):	R COATINGS LTD. ETTA ROAD AILABLE Manufacturing 3255 Paint, coating and a 325510 Paint and coating m	adhesive manufact	Org ID: Submit Date: Last Modified: Contact ID: Cont Type: Contact Title: Cont First Name: Cont Last Name: Contact Position: Contact Position: Contact Fax: Contact Fax: Contact Fax: Contact Tel.: Contact Tel.: Contact Ext.: Contact Ext.: Contact Exa: Contact Email: Latitude: Longitude: UTM Zone: UTM Northing: UTM Easting: Waste Streams: No Streams: Waste Off Sites: No Off Sites: Shutdown: No of Shutdown:	103016 6/27/2012 5/29/2015 3:28:24 PM 234830 MED 43.8144 -79.6805	
<u>Substance R</u>	elease Rep	<u>ort</u>					
Category Ty/ Category Ty/ Category Ty/ Grouping: Trans Code: Chem: Chem (fr): Quantity: Unit: Basis of Esti Basis of Esti Category Ty/	oe ID: oe Desc: oe Desc (fr) imate Cd: imate Desc: oe ID:	:	2 Storage / Handling Rejets de stockage Total Air VOCg Acetone Acétone .003 tonnes O O- Engineering Esti 13	ou manutention mates			

Мар Кеу	Number Records	of G	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Category Typ Category Typ Grouping:	e Desc: e Desc (fr).	ŗ	All Media Rejets à tous les n Total All Media<1t	nédias			
Trans Code: Chem: Chem (fr):			Xylene (all isomers	s) omères)			
Quantity:			.466	omeres)			
Unit: Decio of Ectin	moto Cdi		tonnes				
Basis of Estin	nate Desc:		O- Engineering Es	timates			
Category Typ	e ID:		13				
Category Typ Category Typ	e Desc: e Desc (fr):		All Media Rejets à tous les n	nédias			
Grouping:			Total All Media<1t				
Trans Code:			Methyl ethyl keton	۵			
Chem (fr):			Méthyléthylcétone	C			
Quantity:			.419				
Unit: Basis of Estin	nate Cd:		tonnes O				
Basis of Estin	nate Desc:		O- Engineering Es	timates			
Category Typ	e ID:		13				
Category Typ	e Desc:		All Media	nódias			
Grouping:	e Desc (II).		Total All Media<1t	neulas			
Trans Code:			Tabaaa				
Chem: Chem (fr):			Toluène Toluène				
Quantity:			.892				
Unit: Basis of Estin	mata Cd:		tonnes				
Basis of Estin	nate Desc:		O- Engineering Es	timates			
<u>13</u>	25 of 40		NW/79.1	207.1/-1.79	TREBOR IND. TRIS 18 CADETTA ROAD BRAMPTON ON L6	TAR COATINGS DIV. D NOT AVAILABLE T 328	NPRI
		4425			Ora ID:	20847	
Other ID:		FALSE			Submit Date:	20047	
No Other ID:		0			Last Modified:	5/29/2015 3:28:24 PM	
Track ID: Report ID:		12212			Contact ID: Cont Type:	99350 MED	
Report Type:		NPRI			Contact Title:		
Rpt Type ID: Boport Yoar:		1 100/			Cont First Name:	MICHAEL	
Not-Current R	Rpt?:	No			Contact Position:	NOT AVAILABLE	
Yr of Last File	ed Rpt:	2014			Contact Fax:	9057940304	
Fac ID: Fac Name:		117648 NOT AV	AII ABI F		Contact Ph.: Cont Area Code:	9057941100 905	
Fac Address1	1:	18 CAD	ETTA ROAD		Contact Tel.:	57941100	
Fac Address2	2:	NOT AV	AILABLE		Contact Ext.:	005	
Fac Postal ZI	0:	L61 328			Cont Fax Area Cde: Contact Fax:	905 57940304	
Facility Long:	;				Contact Email:	NOT AVAILABLE	
DLS (Last File	ed Rpt):				Latitude:	43.8144	
Datum:		1983			UTM Zone:	-79.6605 17	
Facility Cmnt	s:	FALSE			UTM Northing:	4852100	
URL:		14			UTM Easting:	606300 FALSE	
Parent Co.:		FALSE			No Streams:	0	
No Parent Co.	.:	0			Waste Off Sites:	TRUE	
Pollut Prev Ci	mnts:				No Off Sites:	1	

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Stacks: No of Stacks Canadian SIC Canadian SIC	: C Code (2 digit): C Code:			Shutdown: No of Shutdown:	
SIC Code De	scription:				
American SI	C Code: (2 digit):	32			
NAICS CODE NAICS 2 Des	cription:	Manufacturing			
NAICS Code	(4 digit):	3255			
NAICS 4 Des	cription:	Paint, coating and a	adhesive manufact	uring	
NAICS Code	(6 digit):	325510			
NAICS 6 Des	cription:	Paint and coating n	nanufacturing		
<u>Substance R</u>	elease Report				
Category Typ	be ID:	13			
Category Typ	pe Desc:	All Media			
Category Typ	oe Desc (fr):	Rejets à tous les m	édias		
Grouping:		Total All Media<1t			
Trans Code:		Taluana			
Chem:		Toluene			
Cnem (fr):		l oluene			
Quantity.		tonnes			
Basis of Esti	mate Cd.	M			
Basis of Esti	mate Desc:	M- Monitoring or Di	rect Measurement	- In use from 1994 to 2002	
Category Tv	pe ID:	13			
Category Typ	pe Desc:	All Media			
Category Typ	pe Desc (fr):	Rejets à tous les m	édias		
Grouping:	• •	Total All Media<1t			
Trans Code:					
Chem:		Xylene (mixed isom	iers)		
Chem (fr):		Xylène (mélange d'	isomères)		
Quantity:		.182			
Unit:		tonnes			
Basis of Esti	mate Cd:	M Manitaring or Di	raat Maaauramaat	In use from 1001 to 2002	
Basis of Esti	mate Desc:	ivi- ivionitoring of DI	rectivieasurement	- III use IroIII 1994 to 2002	
<u>13</u>	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	Ora 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.: Parent Co.: No Parent Co. Pollut Prev Cl Stacks: No of Stacks: Canadian SIC Canadian SIC SIC Code Des American SIC NAICS Code (NAICS Code (13 * Code (2 digit): Code: cription: 2 digit): cription: 4 digit):	32 Manufacturing 3255		UTM Easting: Waste Streams: No Streams: Waste Off Sites: No Off Sites: Shutdown: No of Shutdown:	606300 FALSE 0 TRUE 1	
NAICS 4 Desc NAICS Code (NAICS 6 Desc	6 digit): 6 digit): cription:	Paint, coating and a 325510 Paint and coating ma	dhesive manufact anufacturing	turing		
<u>Substance Re</u>	elease Report					
Category Typ Category Typ Category Typ Grouping: Trans Code: Chem: Chem (fr): Quantity: Unit: Basis of Estin Basis of Estin	e ID: e Desc: e Desc (fr): nate Cd: nate Desc:	2 Storage / Handling Rejets de stockage o Total Air VOCg Xylene (mixed isome Xylène (mélange d'is 1.038 tonnes O O- Engineering Estir	ou manutention ers) somères) nates			
Category Typ Category Typ Category Typ Grouping: Trans Code: Chem: Chem (fr): Quantity: Unit: Basis of Estin Basis of Estin	e ID: e Desc: e Desc (fr): nate Cd: nate Desc:	2 Storage / Handling Rejets de stockage o Total Air VOCg Toluene Toluène .5 tonnes O O- Engineering Estir	ou manutention nates			
<u>13</u>	27 of 40	NW/79.1	207.1/-1.79	TREBOR IND. TRIS 18 CADETTA ROA BRAMPTON ON LO	STAR COATINGS DIV. D NOT AVAILABLE 5P0X4	NPRI
NPRI ID: Other ID: No Other ID: Track ID: Report ID: Report Type:	4425 * 0 12210 NPRI			Org ID: Submit Date: Last Modified: Contact ID: Cont Type: Contact Title:	20847 5/28/1998 5/29/2015 3:28:24 PM 99355 MED	

Cont First Name:

Cont Last Name:

Contact Position:

Cont Area Code:

Cont Fax Area Cde:

Contact Fax:

Contact Ph.:

Contact Tel.:

Contact Ext.:

Contact Fax:

MICHAEL

SHILLUM

9057940304

9057941100

57941100

57940304

905

905

GENERAL MANAGER

Rpt Type ID:

Report Year:

Fac ID:

Fac Name:

Fac Address1:

Fac Address2:

Fac Postal Zip:

Facility Lat:

Not-Current Rpt?:

Yr of Last Filed Rpt:

1

1997

2014

48552

L6P0X4

43.8144

TRISTAR COATINGS

18 CADETTA ROAD

NOT AVAILABLE

No

Map Key Number of Records	Direction/ Elev/Diff Distance (m) (m)	Site	DB
Facility Long: -79.6809 DLS (Last Filed Rpt):	5	Contact Email:NOT AVAILABLELatitude: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 Parent Co.:		No Streams: 0	
Pollut Prov 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	e	
NAICS 4 Description:	Paint, coating and adhesive manua	facturing	
NAICS Code (6 digit):	325510 Boint and coating manufacturing		
NAICS & Description.	Faint 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 (mixed isomers)		
Chem (fr):	Xylene (melange d'isomeres)		
Quantity:			
UIIII. 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:	I oluene		
Griem (IF): Quantity:			
Quantity.	toppes		
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		
UIIII: Basis of Estimate Cd:	C		
Basis of Estimate Desc:	C- Mass Balance		
12 20 of 40			
<u>13</u> 28 07 40	1997/19.1 201.1/-1.79	18 CADETTA ROAD NOT AVAILABLE BRAMPTON ON L6P0X4	NPRI

Order No: 20190508200

DB

Map Key	Number Records	of	Direction/ Distance (m)	Elev/Diff (m)	Site		DE
NPRI ID:		4425			Ora 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	
Poport ID:		127724			Cont Type:	MED	
Report ID.					Contract Title:	NED	
Report Type:		NPRI			Contact Title:		
Rpt Type ID:		1			Cont First Name:		
Report Year:		2008			Cont Last Name:		
Not-Current F	Rpt?:	No			Contact Position:		
Yr of Last File	ed Rpt:	2014			Contact Fax:		
Fac ID:	-	224562			Contact Ph.:		
Fac Name:		TRISTAR	COATINGS LTD.		Cont Area Code:		
Fac Address1	1.	18 CADE	TTA ROAD		Contact Tel :		
Fac Address?	,. ,.				Contact Ext :		
Fac Doctal 7	 n:				Cont Fox Aron Cdor		
Fac Postal Zij	p:				Contrax Area Cde:		
Facility Lat:		43.8144			Contact Fax:		
Facility Long:	:	-79.6805			Contact Email:		
DLS (Last File	ed Rpt):				Latitude:	43.8144	
Facility DLS:					Longitude:	-79.6805	
Datum:		1983			UTM Zone:		
Facility Cmnt	s.	No			UTM Northing		
IIRI ·		MANA trict	arcoating ca		UTM Fasting.		
No of Franci		10	arcoauny.ca		Univ Edsung:	No	
NO OF EMPL.:		19			waste Streams:	INU	
Parent Co.:		N			No Streams:		
No Parent Co					Waste Off Sites:	Yes	
Pollut Prev C	mnts:	No			No Off Sites:	1	
Stacks:		No			Shutdown:	No	
No of Stacks:	•				No of Shutdown:		
Canadian SIC	Code (2 di	ait) [.]					
Canadian SIC	Code:	9.0/					
Canadian Sic							
SIC Code Des	scription:						
American SIC	; Code:						
NAICS Code ((2 digit):		32				
NAICS 2 Desc	cription:		Manufacturing				
NAICS Code ((4 digit):		3255				
NAICS 4 Desc	cription:		Paint, coating and a	dhesive manufa	cturing		
NAICS Code	(6 digit)		325510		otaniig		
NAICS COUE	ougit).		Doint and coating m	opufooturing			
NAICS 0 Dest			T and coating m	andracturing			
Substance Re	elease Repo	<u>ort</u>					
Category Typ	e ID [.]		13				
Category Typ	n Desc		All Media				
Category Typ	Desc.		Pointe à tous les	diaa			
Category Typ	e Desc (IP):		Tetel All Market	uidS			
Grouping:			i otal All Media<1t				
Trans Code:							
Chem:			Xylene (all isomers)				
Chem (fr):			Xylène (tous les isor	nères)			
Quantity:			.768	,			
Unit			tonnes				
Basis of Eatin	mata Cd.						
Basis of Estin	nate Desc:						
Category Typ	e ID:		13				
Category Typ	e Desc:		All Media				
Category Typ	e Desc (fr)		Rejets à tous les mé	dias			
Grouning			Total All Media-1+				
Trans Code							
Charrie			Mothyl athyl lister				
Cnem:			wetnyi etnyi ketone				
Chem (fr):			Methyléthylcétone				
Quantity:			.504				
Unit:			tonnes				
Basis of Estir	nate Cd:						
Basis of Estir	nate Desc:						
100	erisinfo.co	<u>m</u> Enviro	onmental Risk Info	rmation Servic	es	Order No	: 20190508200

Мар Кеу	Number Records	of S	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Category Typ Category Typ Category Typ Grouping:	pe ID: pe Desc: pe Desc (fr).		13 All Media Rejets à tous les me Total All Media<1t	édias			
Trans Code: Chem:			n-Butyl alcohol				
Quantity: Unit:			.008 tonnes				
Basis of Estil Basis of Estil	mate Cd: mate Desc:						
Category Typ	be ID:		13 All Martin				
Category Typ Category Typ	be Desc: be Desc (fr);		Rejets à tous les mé	édias			
Grouping:			Total All Media<1t				
Chem:			Isopropyl alcohol				
Chem (fr):			Alcool iso-propyliqu	е			
Quantity:			.256 toppes				
Basis of Estil	mate Cd:		torines				
Basis of Esti	mate Desc:						
Category Typ	pe ID: De Desc:		3 Fugitive				
Category Typ	be Desc. be Desc (fr):		Émissions fugitives				
Grouping:	. ,		Total Air				
Trans Code:			VOCS				
Chem (fr):			Toluène				
Quantity:			1.13				
Unit: Basis of Esti	mate Cd·		tonnes O				
Basis of Estin	mate Desc:		O- Engineering Esti	mates			
Category Typ	be ID:		13 All Marija				
Category Typ	be Desc: be Desc (fr):		Rejets à tous les mé	dias			
Grouping:			Total All Media<1t				
Trans Code: Chem [.]			Methyl isobutyl keto	ne			
Chem (fr):			Méthylisobutylecéto	ne			
Quantity:			.174				
Unit: Basis of Estil	mate Cd:		tonnes				
Basis of Esti	mate Desc:						
<u>13</u>	29 of 40		NW/79.1	207.1/-1.79	TRISTAR COATING 18 CADETTA ROAD BRAMPTON ON L61	S LTD D NOT A VAILABLE P0X4	NPRI
NPRI ID:		4425			Org ID:	70696	
Other ID:		*			Submit Date:	6/1/2004	
No Other ID:		72020			Last Modified:	5/29/2015 3:28:24 PM	
Report ID:		152737			Contact ID: Cont Type:	MED	
Report Type:		NPRI			Contact Title:		
Rpt Type ID:		1			Cont First Name:	MICHAEL	
Report Year: Not-Current I	Rot?:	2003 No			Cont Last Name: Contact Position		
Yr of Last File	ed Rpt:	2014			Contact Fax:	9057940304	
Fac ID:	-	224562			Contact Ph.:	9057941100	

Cont Area Code:

905

erisinfo.com | Environmental Risk Information Services

TRISTAR COATINGS LTD.

Fac Name:

101

Мар Кеу	Numbei Record	r of s	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Fac Address1	1:	18 CADET	TA ROAD		Contact Tel.:	57941100	
Fac Address2	2	NOT AVAIL	LABLE		Contact Ext.:	19	
Fac Postal Zi	D:	L6P0X4			Cont Fax Area Cde:	905	
Facility Lat:		43.8144			Contact Fax:	57940304	
Facility Long:		-79.6805			Contact Email:	RMS@TRISTARCOATINGS.CA	
DLS (Last File	ed Rpt):				Latitude:	43.8144	
Facility DLS:					Longitude:	-79.6805	
Datum:		1983			UTM Zone:		
Facility Cmnt	s:	False			UTM Northing:		
URL:		www.tristar	rcoating.ca		UTM Easting:	True	
NO OF EMPL: Barant Co.		17 *			Waste Streams:	There	
No Parent Co.		1			Wasto Off Sites	Fals	
Pollut Prev C	 mnts:	False			No Off Sites:	1	
Stacks:		True			Shutdown:	True	
No of Stacks:					No of Shutdown:		
Canadian SIC	Code (2 d	igit):					
Canadian SIC	Code:						
SIC Code Des	scription:						
American SIC	Code:						
NAICS Code ((2 digit):	3	32				
NAICS 2 Desc	cription:	N	vianufacturing				
	4 uigit).	5	Paint coating and a	hesive manufac	turing		
NAICS 4 Desc	(6 diait) [.]	3	325510		lanng		
NAICS 6 Desc	cription:	F	Paint and coating ma	anufacturing			
Substance Re	elease Rep	<u>ort</u>					
Category Typ	e ID:	1					
Category Typ	e Desc:	5	Stack / Point				
Category Typ	e Desc (fr)	: F	Rejets de cheminée	ou ponctuels			
Grouping:		Т	Fotal Air				
Trans Code:		A	ASta				
Chem:		N N	/olatile Organic Cor	npounds (VOCs)			
Chem (fr):		1	Jomposes organiqu	es volatils (COV)			
Quantity.		1	00000				
Basis of Estin	nate Cd [.]	(רווונ <u>ט</u> ר				
Basis of Estin	nate Desc:		- D- Enaineerina Estir	nates			
			3 - 3 -				
Category Typ	e ID:	3	3				
Category Typ	e Desc:	F	Jugitive				
Category Typ	e Desc (fr)	: E	Emissions fugitives				
Grouping:		T	Fotal Air				
Trans Code:			/UUS (vlana (all isomora)				
Chem (fr):		2	(vlène (tous les isor	nàras)			
Quantity			3.585	10103/			
Unit:		te	onnes				
Basis of Estin	nate Cd:	Ċ	0				
Basis of Estin	nate Desc:	c c	D- Engineering Estir	nates			
Category Typ	e ID:	1	13				
Category Typ	e Desc:	A	All Media				
Category Typ	e Desc (fr)	: F	Rejets à tous les mé	dias			
Grouping:		Т	Fotal All Media<1t				
Trans Code:							
Chem:		N	vietnyi etnyi ketone				
Griem (If): Quantitu:		N	vieu iyieu iyicetone				
quantity:		.: +/	onnes				
Basis of Estin	nate Cd·	U	011100				
Basis of Estin	nate Desc:						
	originfo or		nmental Rick Info	mation Sorvice	26	Order Net 20100	508200
102	01010.00					01061110.20190	000200

Records	Distance (m)	(<i>m</i>)			
<u>13</u> 30 of 40	NW/79.1	207.1 / -1.79	TRISTAR COATINGS 18 CADETTA ROAD BRAMPTON ON L6T	S LTD. NOT A VAILABLE 3Z8	NPRI
NPRI ID:	4425		Org ID:	70697	
Other ID:	N		Submit Date:	1/8/2004	
No Other ID:	0		Last Modified:	5/29/2015 3:28:24 PM	
Track ID:	76622		Contact ID:	188563	
Report ID: Bonort Tyrnor	161152 NDDI		Cont Type:	MED	
Rot Type ID:	1		Cont First Name:	MICHAEL	
Report Year:	2002		Cont Last Name:	SHILLUM	
Not-Current Rpt?:	No		Contact Position:	GENERAL MANAGER	
Yr of Last Filed Rpt:	2014		Contact Fax:	9057940304	
Fac ID:			Contact Ph.:	9057941100	
Fac Name:			Cont Area Code:	905 579/1100	
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): Eacility DLS:			Latitude:	43.8144	
Datum:	1983		UTM Zone:	-13.0003	
Facility Cmnts:	False		UTM Northing:		
URL:	www.tristarcoatings.ca		UTM Easting:		
No of Empl.:	17		Waste Streams:	False	
No Parent Co.:	1		Waste Off Sites	0 Fals	
Pollut Prev Cmnts:	False		No Off Sites:	1	
Stacks:	False		Shutdown:	False	
No of Stacks:	~ (4)		No of Shutdown:	0	
Canadian SIC Code (2 dig Canadian SIC Code:	git):				
SIC Code Description:					
American SIC Code:					
NAICS Code (2 digit):	32				
NAICS 2 Description:	Manufacturing 3255				
NAICS 4 Description:	Paint, coating and a	adhesive manufac	turina		
NAICS Code (6 digit):	325510		5		
NAICS 6 Description:	Paint and coating n	nanufacturing			
Substance Release Repo	<u>ort</u>				
Category Tupo ID:	13				
Category Type ID: Category Type Desc	All Media				
Category Type Desc (fr):	Rejets à tous les m	édias			
Grouping:	Total All Media<1t				
Trans Code: Chom:	Mathyl icohutyl kot				
Chem (fr):	Méthylisobutylecéte	one			
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 m	edias			
Trans Code:					
Chem:	Toluene				
Chem (fr):	Toluène				

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Quantity:		.817			
Unit:		tonnes			
Basis of Esti	mate Cd:				
Basis of Esti	mate Desc:				
Category Ty	pe ID:	3			
Category Ty	pe Desc:	Fugitive			
Category Ty	pe Desc (fr):	Émissions fugitives			
Grouping:		Total Air			
Trans Code:		VOCs	,		
Chem:		Xylene (mixed isome	ers)		
Chem (fr):		A set	someres)		
Quantity:		4.01			
Basis of Esti	mate Cd.	O			
Basis of Esti	mate Desc	O- Engineering Estir	mates		
20010 01 200		ogoog _o	inaree		
Category Typ	pe ID:	13			
Category Ty	pe Desc:	All Media			
Category Typ	pe Desc (fr):	Rejets à tous les mé	dias		
Grouping:		Total All Media<1t			
Trans Code:		••••			
Chem:		Methyl ethyl ketone			
Chem (fr):		Methylethylcetone			
Quantity:		.303			
Unit: Booic of Fot	moto Cd.	lonnes			
Dasis UI ESti	mate Cu:				

<u>13</u>	31 of 40	NW/79.1	207.1 / -1.79	TRISTAR COATINGS 18 CADETTA ROAD BRAMPTON ON L6F	S LTD. NOT AVAILABLE 20X4	NPRI
NPRI ID:		4425		Ora 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 Fi	led Rpt:	2014		Contact Fax:		
Fac ID:	-	224562		Contact Ph.:	9057941100	
Fac Name:		TRISTAR COATINGS LTD.		Cont Area Code:	905	
Fac Address	:1:	18 CADETTA ROAD		Contact Tel.:	57941100	
Fac Address	s 2 :	NOT AVAILABLE		Contact Ext.:	16	
Fac Postal Z	lip:	L6P0X4		Cont Fax Area Cde:		
Facility Lat:		43.8144		Contact Fax:		
Facility Long	g:	-79.6805		Contact Email:	BRIAN@TRISTARCOATINGS.CA	
DLS (Last Fi	led Rpt):			Latitude:	43.8144	
Facility DLS:	:			Longitude:	-79.6805	
Datum:		1983		UTM Zone:		
Facility Cmn	its:			UTM Northing:		
URL:		www.tristarcoatings.ca		UTM Easting:		
No of Empl.:		20		Waste Streams:		
Parent Co.:				No Streams:		
No Parent Co	0.:			Waste Off Sites:		
Pollut Prev C	Cmnts:			No Off Sites:		
Stacks:				Shutdown:		
No of Stacks	5.			No of Shutdown:		
Canadian Sl	C Code (2 a	ligit):				
Canadian Sl	C Code:					
SIC Code De	escription:					
American SI	C Code:					

Site

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

Elev/Diff

(m)

Substance Release Report

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:

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:

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:

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:

13 All Media Rejets à tous les médias Total All Media<1t Isopropyl alcohol Alcool iso-propylique .082 tonnes 0 O- Engineering Estimates 13 All Media Rejets à tous les médias Total All Media<1t Toluene Toluène .295 tonnes

0 O- Engineering Estimates 13 All Media Rejets à tous les médias Total All Media<1t Xylene (all isomers) Xylène (tous les isomères) .747 tonnes 0 O- Engineering Estimates 13

All Media Rejets à tous les médias Total All Media<1t

Methyl ethyl ketone Méthyléthylcétone .227 tonnes

0 O- Engineering Estimates

<u>13</u>	32 of 40		NW/79.1	207.1/-1.79	TRISTAR COATINGS 18 CADETTA ROAD I BRAMPTON ON L6P	LTD NOT AVAILABLE 0X4	NPRI
NPRI ID: Other ID: No Other ID:		4425 N			Org ID: Submit Date: Last Modified:	70696 6/24/2005 5/29/2015 3:28:24 PM	

105

erisinfo.com | Environmental Risk Information Services

Мар Кеу	Number Records	of G	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Track ID: Report ID: Report Type: Rpt Type ID: Report Year: Not-Current R Yr of Last File Fac ID: Fac Name: Fac Address2 Fac Address2 Fac Postal Zip Facility Lat: Facility Long: DLS (Last File	2pt?: ed Rpt: :: :: :: :: :: :: :: ::	29812 90500 NPRI 1 2004 No 2014 224562 TRISTAR (18 CADET NOT AVAII L6P0X4 43.8144 -79.6805	COATINGS LTD. TA ROAD _ABLE		Contact ID: Cont Type: Contact Title: Cont First Name: Cont Last Name: Contact Position: Contact Fax: Contact Ph.: Cont Area Code: Contact Tel.: Contact Tel.: Contact Ext.: Cont Fax Area Cde: Contact Fax: Contact Fax: Contact Email: Latitude:	188563 MED MICHAEL SHILLUM GENERAL MANAGER 9057940304 9057941100 905 57941100 19 905 57940304 RMS@TRISTARCOATINGS.CA 43.8144	
Facility DLS: Datum: Facility Cmnts URL: No of Empl.: Parent Co.	s:	1983 True www.tristar 17	coating.ca		Longitude: UTM Zone: UTM Northing: UTM Easting: Waste Streams: No. Streams:	-79.6805 False	
No Parent Co. Pollut Prev Cl Stacks: No of Stacks: Canadian SIC Canadian SIC	:: mnts: Code (2 di Code:	True No igit):			Waste Off Sites: No Off Sites: Shutdown: No of Shutdown:	Fals 1	
American SIC NAICS Code (NAICS 2 Desc NAICS Code (NAICS 4 Desc NAICS Code (NAICS 6 Desc	Cription: Code: (2 digit): cription: (4 digit): cription: (6 digit): cription:	3 M 3 F 3 F	2 Manufacturing 1255 Paint, coating and ad 125510 Paint and coating ma	Ihesive manufac	cturing		
Substance Re	elease Rep	<u>ort</u>					
Category Typ Category Typ Category Typ Grouping: Trans Code: Chem: Chem (fr): Quantity: Unit: Basis of Estin Basis of Estin	e ID: e Desc: e Desc (fr). nate Cd: nate Desc:	3 F É V X 3 3 tu C C	Gugitive Fugitive Total Air /OCs (ylene (all isomers) (ylène (tous les ison 3.27 ponnes D- Engineering Estim	nères) nates			
Category Typ Category Typ Category Typ Grouping: Trans Code: Chem: Chem (fr): Quantity: Unit: Basis of Estin Basis of Estin	e ID: e Desc: e Desc (fr). nate Cd: nate Desc:	1 Α Γ Γ Γ Ν Ν Ν	3 All Media Rejets à tous les méd Total All Media<1t Methyl ethyl ketone Méthyléthylcétone 367 connes	dias			
Category Typ Category Typ Category Typ	e ID: e Desc: e Desc (fr).	1 A F	3 All Media Rejets à tous les méd	dias			

	Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
-	Grouping:		Total All Media<1t				
	Chom:		GE - Diethylene alva	col butyl ether (D			
	Chem (fr)		FG - Éther butvlique	e de diéthylèneal	(DEGBE)		
	Quantity:		.103	, ac arouny ronogi			
	Unit:		tonnes				
	Basis of Estin	nate Cd:					
	Basis of Estin	nate Desc:					
	Category Typ	e ID:	13				
	Category Typ	e Desc:	All Media				
	Category Typ	e Desc (fr):	Total All Madia 41t	edias			
	Grouping: Trans Code:						
	Chem:		Ethyl acetate				
	Chem (fr):		Acétate d'éthyle				
	Quantity:		.2				
	Unit:		tonnes				
	Basis of Estin Basis of Estin	nate Cd: nate Desc:					
		- 10	40				
	Category Typ	e ID: o Dosc:	IS All Media				
	Category Typ	e Desc. o Dosc (fr):	Rejets à tous les mé	dias			
	Groupina:	e Dese (11).	Total All Media<1t				
	Trans Code:						
	Chem:		Heavy aromatic solv	ent naphtha			
	Chem (fr):		Solvant naphta aron	natique lourd			
	Quantity:		.105				
	Unit:		tonnes				
	Basis of Estin	nate Cd: nate Desc:					
	Category Typ	e ID:	13				
	Category Typ	e Desc:	All Media				
	Category Typ	e Desc (fr):	Rejets à tous les mé	édias			
	Grouping:		Total All Media<1t				
	Chem.		GE - Ethylene alvco	l propyl ether (EC	SPF)		
	Chem (fr):		EG - Éther propyliqu	le d'éthvlènealvc	ol (EGPE)		
	Quantity:		.107	, , , , , , , , , , , , , , , , , , , ,	- (-)		
	Unit:		tonnes				
	Basis of Estin	nate Cd:					
	Basis of Estin	nate Desc:					
	Category Typ	e ID:	13				
	Category Typ	e Desc:	All Media	·			
	Category Typ	e Desc (fr):	Rejets à tous les mé	edias			
	Grouping:		I otal All Media<1t				
	Trans Code:		Toluono				
	Chem (fr)		Toluène				
	Quantity		.691				
	Unit:		tonnes				
	Basis of Estin	nate Cd:					
	Basis of Estin	nate Desc:					
	Category Typ	e ID:	13				
	Category Typ	e Desc:	All Media	dia a			
	Category Typ	e Desc (fr):	Rejets a tous les mé	ealas			
	Grouping: Trans Codo:		TOTAL ALL MEDIA<11				
	Chem		GF - Pronvlene alva	ol methvl ether a	cetate (PGMFA)		
	Chem (fr):		EG - Acétate d'éthe	r méthylique de r	propylènealycol (PGM		
	Quantity:		.216			·· ·· ··	
	Unit:		tonnes				

Map Key	Number Records	r of S	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Basis of Esti Basis of Esti	mate Cd: mate Desc:						
<u>13</u>	33 of 40		NW/79.1	207.1/-1.79	TRISTAR COATINGS 18 CADETTA ROAD BRAMPTON ON L6P	S LTD NOT AVAILABLE 10X4	NPRI
NPRI ID: Other ID: No Other ID: Track ID: Report ID: Report Type: Rpt Type ID: Report Year: Not-Current I Yr of Last Fil Fac ID: Fac Name: Fac Address Fac Address Fac Address Fac Postal ZI Facility Long DLS (Last Fil Facility CONG DLS (Code De AMICS CODE NAICS CODE NAIC	Rpt?: ed Rpt: 1: 2: ip: ed Rpt): ts: code (2 d Code: scription: Code: (2 digit): cription: (4 digit): cription: (6 digit): cription: (6 digit): cription: elease Rep pe ID: pe Desc: pe Desc (fr)	4425 N 53696 113625 NPRI 1 2007 No 2014 224562 TRISTAF 18 CADE NOT AV/ L6P0X4 43.8144 -79.6805 1983 False www.trist 19 N False True ort	COATINGS LTD. TTA ROAD AILABLE arcoating.ca 32 Manufacturing 3255 Paint, coating and a 325510 Paint and coating m 13 All Media Rejets à tous les me Total All Media<1t Methyl ethyl ketone Méthyléthylcétone .749 tonnes	dhesive manufac anufacturing édias	BRAMPTON ON L6P BRAMPTON ON L6P Org ID: Submit Date: Last Modified: Contact ID: Cont Type: Contact Title: Cont First Name: Cont Last Name: Contact Position: Contact Position: Contact Fax: Contact Ph.: Cont Area Code: Contact Tel.: Cont Area Code: Contact Tel.: Cont Fax Area Cde: Contact Fax: Contact Email: Latitude: Longitude: UTM Zone: UTM Northing: UTM Easting: Waste Streams: No Streams: Waste Off Sites: No Off Sites: Shutdown: No of Shutdown: No of Shutdown:	70696 5/26/2008 5/29/2015 3:28:24 PM 234830 MED 43.8144 -79.6805 True? True?	
Category Typ Category Typ Category Typ Category Typ Grouping:	mate Cu. mate Desc: pe ID: pe Desc: pe Desc (fr)	:	13 All Media Rejets à tous les me Total All Media<1t	édias			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Trans Code: Chem: Chem (fr): Quantity: Unit:		GE - Diethylene glyd EG - Éther butylique .026	col butyl ether (D e de diéthylèneg)	EGBE) /col (DEGBE)	
Basis of Esti Basis of Esti	mate Cd: mate Desc:	tonnes			
Category Typ	be ID:	3			
Category Typ	pe Desc: pe Desc (fr):	Fugitive Émissions fugitives			
Grouping:	2000 (11):	Total Air			
Trans Code:		VOCs GE - Propylene alvo	ol methyl ether a	cetate (PGMEA)	
Chem (fr):		EG - Acétate d'éther	r méthylique de p	propylèneglycol (PGMEA)	
Quantity:		217.55			
Unit: Basis of Esti	mate Cd:	O			
Basis of Esti	mate Desc:	O- Engineering Esti	mates		
Category Typ	pe ID: pe Desc:	13 All Media			
Category Typ Grouping: Trans Code:	be Desc (fr):	Rejets à tous les mé Total All Media<1t	edias		
Chem:		MSG#2 - Hydrotreat	ed light distillate		
Chem (fr):		EMG#2 - Distillat lég	ger hydrotraité		
Unit:		tonnes			
Basis of Estin Basis of Estin	mate Cd: mate Desc:				
Category Typ	pe ID: pe Desc:	13 All Media			
Category Typ	be Desc. be Desc (fr):	Rejets à tous les mé	dias		
Grouping:		Total All Media<1t			
Chem:		Ethvl acetate			
Chem (fr):		Acétate d'éthyle			
Quantity: Unit:		.162 tonnes			
Basis of Esti Basis of Esti	mate Cd: mate Desc:				
Category Typ	be ID:	13			
Category Typ Category Typ	be Desc: be Desc (fr):	All Media Rejets à tous les mé	dias		
Grouping:		Total All Media<1t			
Trans Code:		Xylene (all isomers)			
Chem (fr):		Xylène (tous les iso	mères)		
Quantity:		.46	,		
Unit: Basis of Esti	mate Cd [.]	tonnes			
Basis of Esti	mate Desc:				
Category Typ	pe ID:	13 All Madia			
Category Typ	be Desc: be Desc (fr):	Rejets à tous les mé	dias		
Grouping:	. /	Total All Media<1t			
Trans Code:		MSG#1 - Solvent no	nhtha light alinh	atic	
Chem (fr):		EMG#1 - Solvant na	phta aliphatique	léger	
Quantity:		.002			
Unit: Basis of Esti	mate Cd:	tonnes			

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Basis of Esti	mate Desc:				
Category Tv	pe ID:	3			
Category Typ	pe Desc:	Fugitive			
Category Ty	pe Desc (fr):	Émissions fugitives			
Grouping:	()	Total Air			
Trans Code:		VOCs			
Chem:		Toluene			
Chem (fr):		Toluène			
Quantity:		1.1			
Unit:		tonnes			
Basis of Esti	mate Cd:	0			
Basis of Esti	mate Desc:	O- Engineering Estir	nates		
Category Typ	pe ID:	13			
Category Typ	pe Desc:	All Media			
Category Typ	be Desc (fr):	Rejets à tous les mé	dias		
Grouping:		Total All Media<1t			
Trans Code:					
Chem:		MSG#1 - Solvent na	phtha medium al	liphatic	
Chem (fr):		EMG#1 - Solvant na	phta aliphatique	moyen	
Quantity:		.011			
Unit:		tonnes			
Basis of Esti	mate Cd:				
Basis of Esti	mate Desc:				

<u>13</u>	34 of 40	NW/79.1	207.1/-1.79	TRISTAR COATINGS 18 CADETTA ROAD I BRAMPTON ON L6PC	LTD NOT AVAILABLE IX4	NPRI
NPRI ID:		4425		Org ID:	70696	
Other ID:		Ν		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 Fil	led Rpt:	2014		Contact Fax:		
Fac ID:	-	224562		Contact Ph.:		
Fac Name:		TRISTAR COATINGS LTD.		Cont Area Code:		
Fac Address	1:	18 CADETTA ROAD		Contact Tel.:		
Fac Address	2:	NOT AVAILABLE		Contact Ext.:		
Fac Postal Z	ip:	L6P0X4		Cont Fax Area Cde:		
Facility Lat:		43.8144		Contact Fax:		
Facility Long	j:	-79.6805		Contact Email:		
DLS (Last Fil	led Rpt):			Latitude:	43.8144	
Facility DLS:				Longitude:	-79.6805	
Datum:		1983		UTM Zone:		
Facility Cmn	ts:	False		UTM Northing:		
URL:		www.tristarcoating.ca		UTM Easting:		
No of Empl.:		19		Waste Streams:	True?	
Parent Co.:		N		No Streams:		
No Parent Co	o. <i>:</i>			Waste Off Sites:	Fals	
Pollut Prev C	Cmnts:	False		No Off Sites:	1.00	
Stacks:		True		Shutdown:		
No of Stacks	:			No of Shutdown:		
Canadian SIC	C Code (2 d	ligit):				
Canadian SI	C Code:					
SIC Code De	scription:					
American SI	C Code:					
NAICS Code	(2 digit):	32				
NAICS 2 Des	cription:	Manufacturing				
NAICS Code	(4 digit):	3255				

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
NAICS 4 Desc NAICS Code (NAICS 6 Desc	ription: 6 digit): ription:	Paint, coating and a 325510 Paint and coating ma	dhesive manufac anufacturing	turing	
<u>Substance Re</u>	lease Report				
Category Type Category Type Category Type Grouping: Trans Code: Chem: Chem (fr): Quantity: Unit: Basis of Estin Basis of Estin	e ID: e Desc: e Desc (fr): nate Cd: nate Desc:	13 All Media Rejets à tous les mé Total All Media<1t MSG#2 - Hydrotreat EMG#2 - Distillat lég .501 tonnes	dias ed light distillate ler hydrotraité		
Category Type Category Type Category Type Grouping: Trans Code: Chem: Chem (fr): Quantity: Unit: Basis of Estin Basis of Estin	e ID: e Desc: e Desc (fr): nate Cd: nate Desc:	13 All Media Rejets à tous les mé Total All Media<1t Ethyl acetate Acétate d'éthyle .018 tonnes	dias		
Category Type Category Type Grouping: Trans Code: Chem: Chem (fr): Quantity: Unit: Basis of Estin Basis of Estin	e ID: e Desc: e Desc (fr): nate Cd: nate Desc:	13 All Media Rejets à tous les mé Total All Media<1t Methyl ethyl ketone Méthyléthylcétone .749 tonnes	dias		
Category Type Category Type Grouping: Trans Code: Chem: Chem (fr): Quantity: Unit: Basis of Estin Basis of Estin	e ID: e Desc: e Desc (fr): nate Cd: nate Desc:	13 All Media Rejets à tous les mé Total All Media<1t Xylene (all isomers) Xylène (tous les isor .614 tonnes	dias nères)		
Category Type Category Type Category Type Grouping: Trans Code: Chem: Chem (fr): Quantity: Unit: Basis of Estin Basis of Estin	e ID: e Desc: e Desc (fr): nate Cd: nate Desc:	13 All Media Rejets à tous les mé Total All Media<1t GE - Diethylene glyc EG - Éther butylique .092 tonnes	dias col butyl ether (DE de diéthylènegly	EGBE) col (DEGBE)	

Мар Кеу	Number Records	of S	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Category Typ Category Typ Category Typ Grouping: Trans Code: Chem: Chem (fr): Quantity: Unit: Basis of Estir Basis of Estir	e ID: e Desc: e Desc (fr). nate Cd: nate Desc:		13 All Media Rejets à tous les mé Total All Media<11 GE - Propylene glyce EG - Acétate d'éther .003 tonnes	edias ol methyl ether ace ^r méthylique de pro	etate (PGMEA) pylèneglycol (PGMEA)		
Category Typ Category Typ Category Typ Grouping: Trans Code: Chem: Chem (fr): Quantity: Unit: Basis of Estin Basis of Estin	e ID: e Desc: e Desc (fr). nate Cd: nate Desc:	·	13 All Media Rejets à tous les mé Total All Media<11 MSG#1 - Solvent na EMG#1 - Solvant na .004 tonnes	edias phtha medium alip phta aliphatique m	hatic loyen		
Category Typ Category Typ Category Typ Grouping: Trans Code: Chem: Chem (fr): Quantity: Unit: Basis of Estir Basis of Estir	e ID: e Desc: e Desc (fr): nate Cd: nate Desc:		13 All Media Rejets à tous les mé Total All Media<1t MSG#1 - Solvent na EMG#1 - Solvant na .002 tonnes	dias phtha light aliphati phta aliphatique lé	c ger		
Category Typ Category Typ Category Typ Grouping: Trans Code: Chem: Chem (fr): Quantity: Unit: Basis of Estir Basis of Estir	e ID: e Desc: e Desc (fr). nate Cd: nate Desc:		3 Fugitive Émissions fugitives Total Air VOCs Toluene Toluène 1.91 tonnes O O- Engineering Estir	nates			
<u>13</u>	35 of 40		NW/79.1	207.1 / -1.79	TRISTAR COATINGS I 18 CADETTA ROAD N BRAMPTON ON L6P0.	LTD. OT AVAILABLE X4	NPRI
NPRI ID: Other ID: No Other ID: Track ID: Report ID: Report Type ID: Report Year: Not-Current F Yr of Last File Fac ID: Fac Name:	Rpt?: ad Rpt:	4425 Y 2 92814 146866 NPRI 1 2010 No 2014 224562 TRISTAF	R COATINGS LTD.		Org ID: Submit Date: Last Modified: Contact ID: Cont Type: Contact Title: Cont First Name: Cont Last Name: Contact Position: Contact Fax: Contact Ph.: Cont Area Code:	103016 6/17/2011 5/29/2015 3:28:24 PM 234830 MED	

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Мар Кеу	Number Records	of	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Fac Address1 Fac Address2 Fac Postal Zip Facility Lat: Facility Long: DLS (Last File Facility DLS: Datum: Facility Cmnts URL: No of Empl.: Parent Co.: No of Empl.: Parent Co.: No of Empl.: Parent Co.: No of Stacks: Canadian SIC Canadian SIC Canadian SIC Canadian SIC SIC Code Des American SIC NAICS Code (NAICS 6 Desc	: correction: code (2 dig code: c	18 CADE NOT AVA L6P0X4 43.8144 -79.6805 1983 No 18 * No No git):	TTA ROAD ILABLE 32 Manufacturing 3255 Paint, coating and ac 325510 Paint and coating ma	thesive manufa	Contact Tel.: Contact Ext.: Cont Fax Area Cde: Contact Fax: Contact Email: Latitude: Longitude: UTM Zone: UTM Northing: UTM Easting: Waste Streams: No Streams: Waste Off Sites: No Off Sites: Shutdown: No of Shutdown:	43.8144 -79.6805 No Yes 1 No	
<u>Substance Re</u>	elease Repo	<u>ort</u>					
Category Type Category Type Grouping: Trans Code: Chem: Chem (fr): Quantity: Unit: Basis of Estin Basis of Estin	e ID: e Desc: e Desc (fr): nate Cd: nate Desc:		13 All Media Rejets à tous les mé Total All Media<1t Methyl ethyl ketone Méthyléthylcétone .383 tonnes	dias			
Category Type Category Type Category Type Grouping: Trans Code: Chem: Chem (fr): Quantity: Unit: Basis of Estin Basis of Estin	e ID: e Desc: e Desc (fr): nate Cd: nate Desc:		13 All Media Rejets à tous les mé Total All Media<1t Xylene (all isomers) Xylène (tous les ison .443 tonnes	dias nères)			
Category Typ Category Typ Category Typ Grouping: Trans Code: Chem: Chem (fr): Quantity: Unit: Basis of Estin Basis of Estin	e ID: e Desc: e Desc (fr): nate Cd: nate Desc:		13 All Media Rejets à tous les mé Total All Media<1t Toluene Toluène .644 tonnes	dias			

Мар Кеу	Number Record	r of s	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
<u>13</u>	36 of 40		NW/79.1	207.1 / -1.79	Tristar Coatings Ltd 18 CADETTA ROAD BRAMPTON ON L6F	NOT AVAILABLE 20X4	NPRI
		4425			Ora ID:	107081	
Other ID:		4420			Submit Date:	4/8/2016	
No Other ID	:				Last Modified:	11/18/2016 8:28:05 AM	
Track ID:		135729			Contact ID:	241778	
Report ID:		68242			Cont Type:	MEM	
Report Type): 	NPRI			Contact Title:		
Rpt Type ID	:	1			Cont First Name:	NOT AVAILABLE	
Report Year	-	2015			Cont Last Name:	NOT AVAILABLE	
Not-Current	Rpt?:	No			Contact Position:		
Yr of Last F	iled Rpt:	2014			Contact Fax:		
Fac ID:		224562			Contact Ph.:	0	
Fac Name:		TRISTAR	COATINGS LTD.		Cont Area Code:	0	
Fac Addres	s1:	18 CADE			Contact Tel.:		
Fac Address	52: 7:		AILABLE		Contact Ext.:		
Fac Postal 2	Lip:	12 91/4			Contras Area Cde:		
Facility Lat.	a.	-79 6805			Contact Email:	ΝΟΤ ΑΥΔΗ ΔΒΙ Ε	
DIS (Last E	y. iled Rnt) [.]	75.0005			l atitude:	43 8144	
Facility DLS					l ongitude:	-79.6805	
Datum:		1983			UTM Zone:		
Facility Cm	nts:				UTM Northing:		
URL:					UTM Easting:		
No of Empl.	:	20			Waste Streams:		
Parent Co.:					No Streams:		
No Parent C	o.:				Waste Off Sites:		
Pollut Prev	Cmnts:				No Off Sites:		
Stacks:					Shutdown:		
NO OF Stack	s: IC Codo (2 d	ligit):			NO OF SHUTAOWN:		
Canadian Si Canadian Si	C Code:	igit).					
SIC Code De	escription:						
NAICS Code	(2 diait)		32				
NAICS 2 De	scription:		Manufacturing				
NAICS Code	e (4 digit):		3255				
NAICS 4 De	scription:		Paint, coating and a	adhesive manufac	cturing		
NAICS Code	e (6 digit):		325510		-		
NAICS 6 De	scription:		Paint and coating m	nanufacturing			
Substance I	Release Rep	<u>ort</u>					
Category Tu	vpe ID:		13				
Category Ty	pe Desc:		All Media				
Category Ty	pe Desc (fr)	:	Rejets à tous les m	édias			
Grouping:	_ ()		Total All Media<1t				
Trans Code	:						
Chem:							
Chem (fr):			004				
Quantity:			.084				
Unit: Booin of East	limate O-l-		onnes				
Basis of Est	timate Co: timate Desc:		O- Engineering Esti	mates			
Category Tu	ne ID:		13				
	pe Desc		All Media				
Category Ty	pe Desc (fr)	:	Rejets à tous les m	édias			
Grouping:			Total All Media<1t				
Trans Code							
Chem:							
Chem (fr):							

Map Key	Number Records	of S	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Quantity:			.25				
Unit:			tonnes				
Basis of Estir	nate Cd:		0				
Basis of Estir	nate Desc:		O- Engineering Esti	mates			
Category Typ Category Typ Category Typ Grouping: Trans Code: Chem:	ne ID: ne Desc: ne Desc (fr).		13 All Media Rejets à tous les me Total All Media<1t	édias			
Chem (fr): Quantity: Unit: Basis of Estin Basis of Estin	nate Cd: nate Desc:		.417 tonnes O O- Engineering Esti	mates			
Category Typ Category Typ Category Typ Grouping: Trans Code: Chem:	ne ID: ne Desc: ne Desc (fr).	:	13 All Media Rejets à tous les me Total All Media<1t	édias			
Chem (fr):							
Quantity:			.624				
Unit:	mata Od		tonnes				
Basis of Estil Basis of Estil	nate Co: nate Desc:		O- Engineering Esti	mates			
<u>13</u>	37 of 40		NW/79.1	207.1/-1.79	TREBOR INDUSTRIE: 18 CADETTA ROAD N BRAMPTON ON L6P0	S NOT AVAILABLE DX4	NPRI
		4425			Ora 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 No			Cont Last Name:	SHILLUM	
Not-Current F	KPT?:	N0 2014			Contact Position:		
Fac ID:	εα κρι:	2014 224562			Contact Ph :	9057940504	
Fac Name [.]		TRISTAR	COATINGS LTD		Cont Area Code:	905	
Fac Address	1:	18 CADE	TTA ROAD		Contact Tel.:	57941100	
Fac Address	2:	NOT AVA	ILABLE		Contact Ext.:		
Fac Postal Zi	p:	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 File	ed Rpt):				Latitude:	43.8144	

Longitude:

UTM Zone:

UTM Northing:

Waste Streams:

Waste Off Sites:

No of Shutdown:

UTM Easting:

No Streams:

No Off Sites:

Shutdown:

-79.6805

4852100 606300

17

Yes

Yes

0

0

Facility DLS:

No of Empl.:

No Parent Co.:

No of Stacks:

Pollut Prev Cmnts:

Canadian SIC Code (2 digit): Canadian SIC Code: SIC Code Description: American SIC Code:

Parent Co.:

Facility Cmnts:

1983

False

17

*

1

False

Datum:

Stacks:

URL:

Site

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

Elev/Diff

(m)

Substance Release Report

Category Type ID: 2 Storage / Handling Category Type Desc: Category Type Desc (fr): Rejets de stockage ou manutention Grouping: Total Air VOCg Trans Code: Chem: Xylene (mixed isomers) Chem (fr): Xylène (mélange d'isomères) Quantity: .1 Unit: tonnes Basis of Estimate Cd: С Basis of Estimate Desc: C- Mass Balance Category Type ID: 3 Category Type Desc: Fugitive Émissions fugitives Category Type Desc (fr): Grouping: Total Air Trans Code: VOCs Chem: Xylene (mixed isomers) Chem (fr): Xylène (mélange d'isomères) Quantity: .1 Unit: tonnes Basis of Estimate Cd: 0 Basis of Estimate Desc: O- Engineering Estimates 3 Category Type ID: Category Type Desc: Fugitive Émissions fugitives Category Type Desc (fr): Total Air Grouping: Trans Code: VOCs Methyl ethyl ketone Chem: Chem (fr): Méthyléthylcétone .225 Quantity: Unit: tonnes Basis of Estimate Cd: 0 O- Engineering Estimates Basis of Estimate Desc: 3 Category Type ID: Category Type Desc: Fugitive Category Type Desc (fr): Émissions fugitives Grouping: Total Air Trans Code: VOCs Chem: Toluene Chem (fr): Toluène Quantity: .1 Unit: tonnes Basis of Estimate Cd: 0 Basis of Estimate Desc: O- Engineering Estimates 38 of 40 NW/79.1 207.1/-1.79 TRISTAR COATINGS LTD 13 NPRI 18 CADETTA ROAD NOT AVAILABLE **BRAMPTON ON L6P0X4** NPRI ID: 4425 Org ID: 70696 Other ID: Ν Submit Date: 5/18/2010 5/29/2015 3:28:24 PM No Other ID: Last Modified:

116

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Map Key	Numbe Record	r of 's	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 R	Rpt?:	No			Contact Position:		
Yr of Last File	ed Rpt:	2014			Contact Fax:		
Fac ID:	-	224562			Contact Ph.:		
Fac Name:		TRISTAR	COATINGS LTD.		Cont Area Code:		
Fac Address1	:	18 CADET	TA ROAD		Contact Tel.:		
Fac Address2	2:	NOT AVAI	LABLE		Contact Ext.:		
Fac Postal Zip	D:	L6P0X4			Cont Fax Area Cde:		
Facility Lat:		43.8144			Contact Fax:		
Facility Long:		-79.6805			Contact Email:		
DLS (Last File	ed Rpt):				Latitude:	43.8144	
Facility DLS:		1000			Longitude:	-79.6805	
Datum:	_	1983			UIM Zone:		
Facility Cmnts	s:		reacting as		UTM Northing:		
UKL: No of Emmi		www.trista	rcoating.ca		UTW Easting:	No	
NO OF EMPL.		N N			Wasie Streams:	INU	
No Parant Co.:		IN			No Streams: Waste Off Sites	Ves	
Pollut Prov C	 mnte ·	No			No Off Sites.	1	
Stacke		No			Shutdown	No	
No of Stacks:		NO			No of Shutdown:		
Canadian SIC	Code (2 d	liait).					
Canadian SIC	Code:	igit).					
SIC Code Des	cription:						
American SIC	Code:						
NAICS Code (2 digit):	:	32				
NAICS 2 Desc	cription:	r	Manufacturing				
NAICS Code ((4 digit):	:	3255				
NAICS 4 Desc	cription:	I	Paint, coating and a	dhesive manufa	cturing		
NAICS Code (6 digit):		325510				
NAICS 6 Desc	cription:	I	Paint and coating ma	anufacturing			
Substance Re	elease Rep	oort					
Category Typ	e ID:		13				
Category Typ	e Desc:	1	All Media				
Category Typ	e Desc (fr): I	Rejets à tous les mé	dias			
Grouping:		-	Total All Media<1t				
Trans Code:							
Chem:			Xylene (all isomers)				
Cnem (fr):		2	Aylene (tous les isor	neres)			
Quantity:			000				
UIIIC Basis of Estin	nato Cd.	t					
Basis OF Estin	nate Cu: nate Doco						
	nate Dest	•					
Category Typ	e ID:		13				
Category Typ	e Desc:		All Media				
Category Typ	e Desc (fr): I	Rejets à tous les mé	dias			
Grouping:	. ,	-	Total All Media<1t				
Trans Code:							
Chem:		I	sopropyl alcohol				
Chem (fr):		1	Alcool iso-propylique	9			
Quantity:			254				
Unit:		t	tonnes				
Basis of Estin Basis of Estin	nate Cd: nate Desc						
Ducio di Lotin							
Category Typ	e ID:		13				
Category Typ	e Desc:	1	All Media				
Category Typ	e Desc (fr): I	Rejets à tous les mé	dias			

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Grouping:		Total All Media<1t			
Trans Code:					
Chem:		Methyl isobutyl keto	one		
Cnem (Tr): Quantity:			Jne		
Unit:		tonnes			
Basis of Esti	mate Cd:				
Basis of Esti	mate Desc:				
Category Typ	be ID:	13			
Category Typ	pe Desc:	All Media	<i>.</i>		
Category Typ	be Desc (fr):	Rejets a tous les m	édias		
Grouping: Trans Code:		Total All Media<11			
Chem:		Methyl ethyl ketone	1		
Chem (fr):		Méthyléthylcétone			
Quantity:		.392			
Unit:		tonnes			
Basis of Esti Basis of Esti	mate Cd: mate Desc:				
Category Ty	be ID:	13			
Category Typ	pe Desc:	All Media			
Category Typ	oe Desc (fr):	Rejets à tous les m	édias		
Grouping:		I otal All Media<1t			
Trans Code:		Toluene			
Chem (fr):		Toluène			
Quantity:		.817			
Unit:		tonnes			
Basis of Esti Basis of Esti	mate Cd: mate Desc:				
Category Ty	be ID:	13			
Category Typ	pe Desc:	All Media			
Category Typ	be Desc (fr):	Rejets à tous les m	édias		
Grouping:		Total All Media<1t			
Chem		n-Butyl alcohol			
Chem (fr):		Butan-1-ol			
Quantity:		.008			
Unit:		tonnes			
Basis of Esti	mate Cd:				
Basis of Esti	mate Desc:				
Category Typ	pe ID:	13			
Category Typ	pe Desc:	All Media	<i>.</i>		
Category Typ	be Desc (fr):	Rejets à tous les m	édias		
Grouping: Trans Codo:		Total All Media<1t			
Chem		Acetone			
Chem (fr):		Acétone			
Quantity:		.003			
Unit:		tonnes			
Basis of Esti	mate Cd:				
Basis of Esti	mate 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
Fstablished		01-JAN-71			
Plant Size (ft	²) <u>:</u>	12000			
Employment	:				

Мар Кеу	Numbei Record	r of Direction/ s Distance (m)	Elev/Diff (m)	Site	DB
<u>Details</u> Description: SIC/NAICS C	Code:	Paint and Coating 325510	Manufacturing		
Description: SIC/NAICS C	Code:	Paint and Coating 325510	Manufacturing		
<u>13</u>	40 of 40	NW/79.1	207.1 / -1.79	Purolator Courier Ltd. 18 Cadetta Rd Brampton ON L6P 0X4	SPL
Ref No: Site No: Incident Dt: Year: Incident Cau Incident Eve	ise: ent: t Codo:	4013-7HRTVK Other Discharges		Discharger Report: Material Group: Health/Env Conseq: Client Type: Sector Type: Agency Involved:	Other
Contaminan Contaminan Contaminan Contam Lim	t Code: t Name: t Limit 1: it Freq 1:	OIL (PETROLEUM BASED,	NOT SPECIFIED)	Nearest Watercourse: Site Address: Site District Office: Site Postal Code: Site Postal Code:	Halton-Peel
Contaminan Environmen Nature of Im Receiving M Receiving El MOE Respoi	t UN NO 1: t Impact: pact: ledium: nv: nse:	Not Anticipated Other Impact(s) No Field Response		Site Region: Site Municipality: Site Lot: Site Conc: Northing: Easting:	Brampton
Dt MOE Arvl MOE Report Dt Documen Incident Rea Site Name: Site County/	on Scn: ed Dt: ot Closed: ason: District:	8/22/2008 9/17/2008 Spill Tristar Coatings <l< td=""><td>INOFFICIAL></td><td>Site Geo Ref Accu: Site Map Datum: SAC Action Class: Source Type:</td><td>Land Spills</td></l<>	INOFFICIAL>	Site Geo Ref Accu: Site Map Datum: SAC Action Class: Source Type:	Land Spills
Site Geo Rei Incident Sun Contaminan	f Meth: nmary: t Qty:	Purolator: 60 L oil 60 L	to pavement, clning		
<u>14</u>	1 of 1	WSW/86.0	206.9 / -2.00	lot 12 con 11 ON	wwis
Well ID: Construction Primary Wate Sec. Water U Final Well St Water Type: Casing Mate Audit No: Tag: Construction Elevation (m Elevation Re Depth to Beo Well Depth: Overburden/ Pump Rate: Static Water	n Date: der Use: Jse: tatus: erial: n Method: n): eliability: drock: /Bedrock: /Level:	4908701 Water Supply 227370		Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec: Contractor: Form Version: Owner: Street Name: County: Municipality: Site Info: Lot: Concession: Concession: Concession Name: Easting NAD83: Northing NAD83:	1 2/7/2001 Yes 1663 1 PEEL BRAMPTON CITY (TORONTO GORE) 012 11 CON
Flowing (Y/N Flow Rate: Clear/Cloudy	ı): y:			Zone: UTM Reliability:	

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Bore Hole Info	ormation					
Bore Hole ID: DP2BR: Spatial Status Code OB: Code OB Desc Open Hole: Cluster Kind: Date Complet Remarks: Elevrc Desc: Location Sou Improvement Improvement Source Revisi Supplier Com	10323236 0 s: h c: Mixed in a ed: 3/31/2000 rce Date: Location Source: Location Method: ion Comment: ment:	a Layer		Elevation: Elevrc: Zone: East83: North83: Org CS: UTMRC: UTMRC Desc: Location Method:	206.439178 17 605960.7 4851853 9 unknown UTM lot	
<u>Overburden a</u> Materials Inte	nd Bedrock rval					
Formation ID: Layer: Color: General Color Mat1: Most Common Mat2: Other Materia Mat3: Other Materia Formation To Formation En Formation En	r: n Material: ls: ls: p Depth: d Depth: d Depth: d Depth UOM:	932064569 4 2 GREY 28 SAND 11 GRAVEL 06 SILT 67 88 ft				
<u>Overburden a</u> <u>Materials Inte</u>	nd Bedrock rval					
Formation ID: Layer: Color: General Color Mat1: Most Common Mat2: Other Materia Mat3: Other Materia Formation To Formation En Formation En	r: n Material: ls: ls: p Depth: d Depth: d Depth UOM:	932064566 1 6 BROWN 11 GRAVEL 43 GYPSUM 0 1 ft				
<u>Overburden a</u> <u>Materials Inte</u>	nd Bedrock rval					
Formation ID: Layer: Color: General Color Mat1: Most Commol Mat2: Other Materia	r: n Material: ls:	932064571 6 2 GREY 17 SHALE				
120	erisinfo.com Enviro	onmental Risk Info	rmation Servic	es	Order No: 201	90508200

Medi: Formation Top Depth: 89 Formation Top Depth: 138 Formation End Depth: 138 Formation End Depth: 0004. It Orechurden and Bedrock. Materials Interval Formation D: 932064568 Layer: 3 Conset Color: BUUE Matri: 05 Most: Common Material: CLAY Matri: 28 Other Materials: 95 Most: Common Material: 11 Oureburden and Bedrock. Matri: 50 Conset Color: 6 Conset Color: 8 Conset Color: 9 Conset Color: 9 Color: 9	Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Overburden and Bedrock. 932064508 Layer: 3 Color: 3 Generation Di: 932064508 Layer: 3 Generation Di: BLUE Matt: 05 Most Common Material: CLAY Mat: SAND Commation Top Depth: 67 Formation End Depth: 67 Formation End Depth: 67 Formation End Depth: 67 Color: 82004567 Eagen: 220064567 Color: 820064567 Layer: 230064567 Color: 6 Generation Di: 920064567 Layer: 2 Color: 8 Materials: CLAY Materials: 15 Formation End Depth: 15	Mat3: Other Materia Formation To _l Formation En Formation En	ls: p Depth: d Depth: d Depth UOM:	89 138 ft			
Formation ID: 9302064583 Layer: 3 Color: 3 General Color: BLUE Mat1: 05 Mat2: 28 Mat2: 28 Other Meterials: 28 Other Meterials: 10 Other Meterials: 11 Formation Top Depth: 15 Formation End Depth UOM: 1 Verburden and Bedrock: 22084567 Layer: 25 Formation ID: 92084567 Layer: 25 Mat2: 5 Mat2: 5 Mat2: 5 Mat2: 5 Mat2: 5 Mat2: 5 Color: 5 Corestude: 3	<u>Overburden a</u> <u>Materials Inte</u>	<u>nd Bedrock</u> rval				
Overburden and Bedrock Materials Interval932064567Formation ID:932064567Layer:2Color:6General Color:BROWN Matri:Matri:05Most Common Material:CLAY Matrials:Other Materials:1Formation Do Depth:1Formation End Depth:1Porturden and Bedrock Materials IntervalVerburden and Bedrock Materials IntervalFormation End Depth:932064570Layer:5Color:3General Color:BLUE Materials:Materials:05Color:3General Color:BLUE Materials:Materials:5Color:3General Color:BLUE Materials:Materials:5Color:89Formation End Depth:1Promation Top Daph:8Porture and Bedrock Materials:Materials Interval5Color:8Materials IntervalMaterials:5Color:89Formation End Depth:89Formation End	Formation ID: Layer: Color: General Color Mat1: Most Common Mat2: Other Materia Mat3: Other Materia Formation To, Formation En	r: n Material: ls: ls: p Depth: d Depth: d Depth UOM:	932064568 3 BLUE 05 CLAY 28 SAND 11 GRAVEL 15 67 ft			
Formation ID:932064567Layer:2Color:6General Color:BROWNMatt:CLAYMatt:CLAYMal2:CLAYOther Materials:-Formation Top Depth:1Formation End Depth:15Formation ID:932064570Layer:5Color:3General Color:3General Color:3General Color:6Materials:-Formation ID:932064570Layer:5Color:3General Color:8BLUE-Materials:-Color:8General Color:8BLUE-Materials:-Formation ID:932064570Layer:5Color:8General Color:8BLUE-Materials:-Coltre:8General Color:8Bule-Materials:-Coltre:89Formation End Depth:89Formation E	<u>Overburden a</u> <u>Materials Inte</u>	<u>nd Bedrock</u> rval				
Overburden and Bedrock Materials Interval932064570Layer:5Color:3General Color:BLUEMat1:05Most Common Material:CLAYMat2:ClayOther Materials:8Formation End Depth:88Formation End Depth:89Formation End Depth:89Poly933171289Layer:1	Formation ID: Layer: Color: General Color Mat1: Most Common Mat2: Other Materia Mat3: Other Materia Formation To Formation En Formation En	r: n Material: ls: ls: p Depth: d Depth: d Depth: d Depth UOM:	932064567 2 6 BROWN 05 CLAY 1 15 ft			
Formation ID:932064570Layer:5Color:3General Color:BLUEMat1:05Most Common Material:CLAYMat2:Other Materials:Other Materials:-Other Materials:-Formation Top Depth:88Formation End Depth UOM:tH-Plug ID:933171289Layer:1	<u>Overburden a</u> <u>Materials Inte</u>	<u>nd Bedrock</u> <u>rval</u>				
Annular Space/AbandonmentSealing RecordPlug ID:933171289Layer:1	Formation ID: Layer: Color: General Color Mat1: Most Commol Mat2: Other Materia Mat3: Other Materia Formation To, Formation En	r: n Material: ls: ls: p Depth: d Depth: d Depth: d Depth UOM:	932064570 5 3 BLUE 05 CLAY 88 89 ft			
Plug ID: 933171289 Layer: 1	<u>Annular Spac</u> Sealing Reco	<u>e/Abandonment</u> rd				
	Plug ID: Layer:	-	933171289 1			

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

Map Key	Number Records	of Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Test Type: Test Duration Test Level: Test Level UC	: DM:	Draw Down 60 63 ft				
<u>Draw Down &</u>	Recovery					
Pump Test De Test Type: Test Duration Test Level: Test Level UC	etail ID: : DM:	934526210 Draw Down 30 50 ft				
<u>Draw Down &</u>	Recovery					
Pump Test De Test Type: Test Duration Test Level: Test Level UC	etail ID: : DM:	934779736 Draw Down 45 59 ft				
Water Details						
Water ID: Layer: Kind Code: Kind: Water Found Water Found	Depth: Depth UON	933796800 1 2 SALTY 130 7: ft				
<u>15</u>	1 of 1	NW/86.4	208.1 / -0.74	Roma Building Restor 20 Cadetta Rd Unit # 7 Brampton ON L6P 0X4	ration Ltd 7 1	GEN
Generator No Status: Approval Yea Contam. Faci MHSW Facilit SIC Code: SIC Descriptio	: rs: lity: y: on:	ON9271498 Registered As of Dec 2018		PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin:	Canada	
<u>Detail(s)</u>						
Waste Class: Waste Class I	Desc:	252 L Waste crankcase	oils and lubricants			
<u>16</u>	1 of 4	NW/87.7	208.1 / -0.74	20 Cadetta Road Brampton ON L6P 0X4	1	EHS
Order No: Status: Report Type: Report Date: Date Received Previous Site Lot/Building S Additional Inf	d: Name: Size: o Ordered:	20071003030 C CAN - Site Report 10/5/2007 10/3/2007		Nearest Intersection: Municipality: Client Prov/State: Search Radius (km): X: Y:	#10 Sideroad and Colraine Drive 0.25 -79.680452 43.815133	

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Order No: 20190508200

123

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Map Key	Number Records	of Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>16</u>	2 of 4	NW/87.7	208.1 / -0.74	Quality Fabricating 20 Cadetta Rd Brampton ON L6T 328	SCT
Established:		1976			
Plant Size (fi Employment	¹²): t:	5			
<u>Details</u> Description: SIC/NAICS C	code:	Iron and Steel Mills 331110	and Ferro-Alloy M	anufacturing	
Description: SIC/NAICS C	ode:	All Other Miscelland 332999	eous Fabricated M	etal Product Manufacturing	
<u>16</u>	3 of 4	NW/87.7	208.1 / -0.74	Quality Fabricating & 2 20 Cadetta Rd Brampton ON L6T 328	Machining Ltd. SCT
Established: Plant Size (fi Employment	t²): t:	7			
<u>16</u>	4 of 4	NW/87.7	208.1 / -0.74	QFM Ltd. 20 Cadetta Rd Brampton ON L6P 0X4	SCT
Established: Plant Size (fi Employment	(²): t:	1976 10000			
<u>Details</u> Description: SIC/NAICS C	Code:	All Other Miscelland 332999	eous Fabricated M	etal Product Manufacturing	
<u>17</u>	1 of 1	N/95.3	209.9 / 1.00	BRAMPTON ON	WWIS
Well ID:	_	7241945		Data Entry Status:	
Construction Primary Wat	n Date: er Use:	Monitoring and Test Hole		Data Src: Date Received:	5/28/2015
Sec. Water L Final Well St	lse: tatus:	0 Observation Wells		Selected Flag: Abandonment Rec:	Yes
Water Type: Casing Mate	rial:			Contractor: Form Version:	7241 7
Audit No: Tag:		Z208698 A181317		Owner: Street Name:	4 CORDETTA RD
Construction	n Method:			County: Municipality:	
Elevation Re	liability:			Site Info:	BRAMI FOR CHT (TORONTO GORE)
Well Depth:				Concession:	
Overburden/ Pump Rate:	Bedrock:			Concession Name: Easting NAD83:	
Static Water Flowing (Y/N	Level: l):			Northing NAD83: Zone:	
Flow Rate: Clear/Cloudy	/:			UTM Reliability:	

Bore Hole Information

Bore Hole ID: DP2BR:	1005384400	Elevation: Elevrc:	210.361083
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	e:		
Improvement Locatio	on Source:		
Improvement Locatio	on Method:		
Source Revision Con	nment:		

Overburden and Bedrock

Materials Interval

Supplier Comment:

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

Overburden and Bedrock Materials Interval

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

Overburden and Bedrock Materials Interval

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 Materia Mat3: Other Materia Formation To Formation En Formation En	ls: ls: p Depth: d Depth: d Depth UOM:	73 HARD 6 20 ft			
<u>Annular Spac</u> Sealing Reco	e/Abandonment rd				
Plug ID: Layer: Plug From: Plug To: Plug Depth U	ОМ:	1005608641 1 0 9 ft			
<u>Annular Spac</u> <u>Sealing Reco</u>	re/Abandonment rd				
Plug ID: Layer: Plug From: Plug To: Plug Depth U	ОМ:	1005608642 2 9 20 ft			
<u>Method of Co</u> <u>Use</u>	nstruction & Well				
Method Cons Method Cons Method Cons Other Method	truction ID: truction Code: truction: I Construction:	B Other Method DIRECT PUSH			
<u>Pipe Informat</u> Pipe ID: Casing No: Comment: Alt Name:	<u>ion</u>	1005608630 0			
<u>Construction</u>	Record - Casing				
Casing ID: Layer: Material: Open Hole or Depth From: Depth To: Casing Diame Casing Diame Casing Depth	Material: eter: eter UOM: UOM:	1005608636 1 5 PLASTIC 0 10 2 inch ft			
Construction	Record - Screen				

Screen ID: 1005608637 Layer: 1 Slot: 10

Slot:	10
Screen Top Depth:	10
Screen End Depth:	20
Screen Material:	5
Screen Depth UOM:	ft

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Screen Diam	eter UOM:	inch			
Screen Diam	eter:	2.25			
Hole Diamet	<u>er</u>				
Hole ID:		1005608634			
Diameter:		6			
Depth From:		0			
Depth To:		20			
Hole Depth l	JOM:	ft			
		inch			

<u>18</u>	1 of 1	NNW/97.7	209.0 / 0.09	lot 12 con 11 ON	WWIS
Well ID: Construction Primary Wate Sec. Water Us Final Well Sta Water Type: Casing Mater Audit No: Tag: Construction Elevation (m). Elevation Reli Depth to Bedi Well Depth: Overburden/E Pump Rate: Static Water L Flowing (Y/N) Flow Rate: Clear/Cloudy:	Date: r Use: (se: itus: \ ial: \ Method: : iability: rock: Bedrock: .evel: :	4906478 Commerical Water Supply NA		Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec: Contractor: Form Version: Owner: Street Name: County: Municipality: Site Info: Lot: Concession: Concession: Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability:	1 8/8/1986 Yes 4778 1 PEEL BRAMPTON CITY (TORONTO GORE) 012 11 CON
Bore Hole Infe	ormation				
Bore Hole ID: DP2BR: Spatial Status Code OB: Code OB Des Open Hole: Cluster Kind:	5: C: E	10321043 76 r Bedrock		Elevation: Elevrc: Zone: East83: North83: Org CS: UTMRC:	210.348068 17 606193.6 4852221 4
Date Complet	ed: 8	8/2/1985		UTMRC Desc:	margin of error : 30 m - 100 m

Location Method:

topo

Remarks: 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
Most Common Mat2: Other Materials Mat3: Other Materials Formation Top Formation End Formation End	Material: 5: Depth: Depth: Depth UOM:	SHALE 73 HARD 88 94 ft			
<u>Overburden an</u> <u>Materials Interv</u>	<u>d Bedrock</u> /al				
Formation ID: Layer: Color: General Color: Mat1: Most Common Mat2: Other Materials Mat3:	Material: 5:	932053846 3 BLUE 17 SHALE 85 SOFT			
Other Materials Formation Top Formation End Formation End	s: Depth: Depth: Depth UOM:	76 88 ft			
<u>Overburden an</u> <u>Materials Interv</u>	<u>d Bedrock</u> /al				
Formation ID: Layer: Color: General Color: Mat1: Most Common Mat2: Other Materials Mat3: Other Materials Formation Top Formation End Formation End	Material: 5: 5: Depth: Depth: Depth: Depth UOM:	932053845 2 3 BLUE 05 CLAY 12 STONES 40 76 ft			
<u>Overburden an</u> <u>Materials Interv</u>	<u>d Bedrock</u> /al				
Formation ID: Layer: Color: General Color: Mat1: Most Common Mat2: Other Materials Mat3: Other Materials Formation Top Formation End	Material: 5: 5: Depth: Depth:	932053844 1 24 PREV. DRILLED 0 40			
Formation End	Depth UOM:	ft			

Method of Construction & Well Use

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Method Cons Method Cons Method Cons Other Method	truction ID: truction Code: truction: d Construction:	1 Cable Tool			
<u>Pipe Informa</u>	<u>tion</u>				
Pipe ID: Casing No: Comment: Alt Name:		10869613 1			
<u>Construction</u>	Record - Casing				
Casing ID: Layer: Material: Open Hole of Depth From:	· Material:	930529740 1 1 STEEL			
Casing Diam Casing Diam Casing Diam Casing Dept	eter: eter UOM: n UOM:	oo 6 inch ft			
<u>Results of W</u>	ell Yield Testing				
Pump Test IE Pump Set At: Static Level: Final Level A Recommende Pumping Rate Recommende Levels UOM: Rate UOM: Water State A Water State A Pumping Tes Pumping Dur Pumping Dur Flowing:): fter Pumping: ed Pump Depth: e: : ed Pump Rate: After Test Code: After Test: After Test: at Method: ration HR: ration MIN:	994906478 20 88 85 5 5 ft GPM 2 4 0 N			
<u>Draw Down &</u>	Recovery				
Pump Test D Test Type: Test Duratior Test Level: Test Level U	etail ID: n: DM:	935048414 60 80 ft			
<u>Draw Down &</u>	Recovery				
Pump Test D Test Type: Test Duratior Test Level: Test Level U	etail ID: n: DM:	934528829 30 65 ft			

Draw Down & Recovery

Мар Кеу	Number Records	of	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Pump Test D Test Type: Test Duration Test Level: Test Level U	Petail ID: n: OM:		934782918 45 79 ft				
Draw Down a	<u>& Recovery</u>						
Pump Test D Test Type: Test Duration Test Level: Test Level U	Petail ID: n: OM:		934254235 15 45 ft				
Water Details	<u>6</u>						
Water ID: Layer: Kind Code: Kind: Water Found Water Found	l Depth: I Depth UON	1:	933794454 1 FRESH 92 ft				
<u>19</u>	1 of 1		ESE/98.0	206.1 / -2.73	THE REGIONAL MUN	ICIPALITY OF PEEL	EASR
Approval No Status: Date: Record Type Link Source: Project Type Full Address Approval Tyj Full PDF Lind	: : : : : : : : : : : : : : : : : : :	R-009-91 REGISTI 2017-07- EASR MOFA Water Ta	110185357 ERED 14 aking - Construction EASR-Water Takin http://www.accesse	Dewatering Ig - Construction D environment.ene.go	SWP Area Name: MOE District: City: Latitude: Longitude: Geometry X: Geometry Y: ewatering by.on.ca/AEWeb/ae/ViewDo	Toronto Halton-Peel 43.81166667 -79.67472222 cument.action?documentRefID	⊨2039314
<u>20</u>	1 of 6		NNW/104.4	209.9 / 1.00	WYNDALE PAVING C 24 Cadetta Rd Brampton ON L6P 0X	0. LTD. 4	GEN
Generator No Status: Approval Ye Contam. Facili SIC Code: SIC Descript <u>Detail(s)</u>	o: ars: ility: ty: ion:	ON52650 2016 No 811199	ALL OTHER AUTC	DMOTIVE REPAIR	PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin: AND MAINTENANCE	Canada CO_ADMIN Trish O'Hearn 905-850-3057 Ext.	
Waste Class	:		213				
Waste Class Waste Class Waste Class	Desc: : Desc:		PETROLEUM DIS 252 WASTE OILS & LU	TILLATES JBRICANTS			
20	2 of 6		NNW/104.4	209.9 / 1.00	WYNDALE PAVING C 24 Cadetta Rd	0. LTD.	GEN

Мар Кеу	Number Records	of	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
					Brampton ON L6P 0X4	I	
Generator No: Status: Approval Year Contam. Facili MHSW Facility SIC Code: SIC Descriptio	rs: ity: /: on:	ON52650 2015 No No 811199	ALL OTHER AUTO	MOTIVE REPAIR /	PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin: AND MAINTENANCE	Canada CO_ADMIN Trish O'Hearn 905-850-3057 Ext.	
<u>Detail(s)</u>							
Waste Class: Waste Class D	Desc:		252 WASTE OILS & LU	BRICANTS			
<u>20</u>	3 of 6		NNW/104.4	209.9 / 1.00	WYNDALE PAVING CC 24 Cadetta Rd Brampton ON L6P 0X4	D. LTD.	GEN
Generator No: Status: Approval Year Contam. Facili MHSW Facility SIC Code: SIC Descriptio	rs: ity: /: on:	ON52650 Registere As of Mar	953 9d r 2019		PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin:	Canada	
<u>Detail(s)</u>							
Waste Class: Waste Class D	Desc:		213 T Petroleum distillate	S			
Waste Class: Waste Class D	Desc:		252 L Waste crankcase o	ils and lubricants			
<u>20</u>	4 of 6		NNW/104.4	209.9 / 1.00	WYNDALE PAVING CC 24 Cadetta Rd Brampton ON L6P 0X4	D. LTD.	GEN
Generator No: Status: Approval Year Contam. Facili MHSW Facility SIC Code: SIC Descriptio	rs: ity: /: on:	ON52650 Registere As of Dec	953 9d 9 2018		PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin:	Canada	
<u>Detail(s)</u>							
Waste Class: Waste Class D	Desc:		213 T Petroleum distillate	S			
Waste Class: Waste Class D	Desc:		252 L Waste crankcase o	ils and lubricants			
<u>20</u>	5 of 6		NNW/104.4	209.9 / 1.00	24 CADETTA ROAD BRAMPTON ON L6P 0	X4	HINC
External File N Fuel Occurren	lum: ice Type:		FS INC 0806-02776 Pipeline Strike	5			

Мар Кеу	Number of Records	Direction/ Distance (m	Elev/Diff) (m)	Site		DB
Date of Occu Fuel Type In Status Desc: Job Type De Oper. Type In Service Inter Property Dan Fuel Life Cyc Root Cause:	rrence: volved: sc: nvolved: ruptions: nage: cle Stage:	6/2/2008 Natural Gas Completed - Cau Incident/Near-Mi Construction Site Yes No Transmission, Di Root Cause: Equ	sal Analysis(End) ss Occurrence (FS) (pipeline strike) stribution and Transp ipment/Material/Com	ortation ponent:No Procedures:Y	∕es Maintenance:No Design:N	lo Training:No
Reported Det Fuel Categor Occurrence Affiliation: County Name Approx. Qua Nearby body Enter Draina Approx. Qua Environment	tails: ry: Type: e: nt. Rel: r of water: ge Syst.: nt. Unit: tal Impact:	Management:Yes Gaseous Fuel Incident Industry Stakeho Peel	s Human Factors:Y	es ration/Certificate Holder, F	acility Owner, etc.)	
<u>20</u>	6 of 6	NNW/104.4	209.9 / 1.00	Roma Fence Ltd. 24 Cadetta Rd Brampton ON L6P 0.	X4	SCT
Established: Plant Size (ft Employment	²): :	01-AUG-69 80000				
<u>Details</u> Description: SIC/NAICS C	ode:	Cutlery and Hand 332210	d Tool Manufacturing			
Description: SIC/NAICS C	ode:	All Other Plastic 326198	Product Manufacturin	g		
Description: SIC/NAICS C	ode:	Other Fabricated 332619	Wire Product Manufa	acturing		
Description: SIC/NAICS C	ode:	All Other Miscella 321999	aneous Wood Produc	t Manufacturing		
Description: SIC/NAICS C	ode:	Other Ornamenta 332329	al and Architectural M	etal Product Manufacturing	g	
Description: SIC/NAICS C	ode:	Construction, Tra 532410	ansportation, Mining,	and Forestry Machinery ar	d Equipment Rental and Leasing	
Description: SIC/NAICS C	ode:	All Other Miscella 332999	aneous Fabricated Me	etal Product Manufacturing	I	
Description: SIC/NAICS C	ode:	Cutlery and Hand 332210	d Tool Manufacturing			
<u>21</u>	1 of 1	W/109.3	206.9/-2.00	ON		WWIS
Well ID: Construction Primary Wate Sec. Water U	730 n Date: er Use: lse:)4020		Data Entry Status: Data Src: Date Received: Selected Flag:	Yes 1/24/2018 Yes	

Map Key	Number Records	of S	Direction/ Distance (m)	Elev/Diff (m)	Site		DE
Final Well Sta Water Type: Casing Materi Audit No: Tag: Construction Elevation (m): Elevation Reli Depth to Bedr Well Depth: Overburden/E Pump Rate: Static Water L Flowing (Y/N). Flow Rate: Clear/Cloudy:	itus: ial: : iability: rock: Bedrock: .evel: :	C33620 A226456			Abandonment Rec: Contractor: Form Version: Owner: Street Name: County: Municipality: Site Info: Lot: Concession: Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability:	7383 8 PEEL BRAMPTON CITY (TORONTO GORE)	
Bore Hole Info	ormation						
Bore Hole ID: DP2BR: Spatial Status Code OB: Code OB Desi Open Hole: Cluster Kind: Date Complet Remarks: Elevrc Desc: Location Sour Improvement Improvement Suppier Com	s: c: ted: rce Date: Location S Location I ion Commo	100697532: 7/17/2017 Source: Method: ent:	2		Elevation: Elevrc: Zone: East83: North83: Org CS: UTMRC: UTMRC Desc: Location Method:	17 606004 4852000 UTM83 4 margin of error : 30 m - 100 m wwr	
22	1 of 1		NNW/111.5	209.9 / 1.00	24 Cadetta Rd Brampton ON L6P0X4	1	EHS
Order No: Status: Report Type: Report Date: Date Received Previous Site Lot/Building S Additional Info	d: Name: Size: 'o Ordered:	201412030 C Standard R 10-DEC-14 03-DEC-14 A	73 eport erial Photos		Nearest Intersection: Municipality: Client Prov/State: Search Radius (km): X: Y:	ON .25 -79.679288 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: Approval Date Status: Record Type: Link Source: SWP Area Nat Approval Type: Project Type: Address: Full Address: Full PDF Link	e: me: e:	6568-9E3S 2013-12-18 Approved ECA IDS E W 4	KD CA-WASTE MANA /ASTE MANAGEM Cadetta Rd ttps://www.accesse	AGEMENT SYSTEM IENT SYSTEMS environment.ene.go	MOE District: City: Longitude: Latitude: Geometry X: Geometry Y: IS	C3R3S-14.pdf	

Map Key Numbe Record		r of Direction/ Is Distance (m)		Elev/Diff Site n) (m)	Site	DB		
24	1 of 1		NW/127.9	206.9 / -2.00	lot 12 con 11 ON	WWIS		
Well ID: Construction Primary Wat Sec. Water L Final Well St Water Type: Casing Mate Audit No: Tag: Construction Elevation (m Elevation Re Depth to Beo Well Depth: Overburden/ Pump Rate: Static Water Flowing (Y/N Flow Rate: Clear/Cloudy	n Date: er Use: Jse: tatus: rial: n Method:): liability: drock: /Bedrock: Level: l):	4905812 Domestic Water Sup	ylqc		Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec: Contractor: Form Version: Owner: Street Name: County: Municipality: Site Info: Lot: Concession: Concession: Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability:	1 11/3/1981 Yes 3746 1 PEEL BRAMPTON CITY (TORONTO GORE) 012 11 CON		
<u>Bore Hole In</u> Bore Hole ID DP2BR:	formation):	10320497			Elevation: Elevrc:	208.051589		
Spatial Statu Code OB: Code OB De Open Hole: Cluster Kind Date Comple Remarks: Elevrc Desc: Location Sou Improvemen Improvemen Source Revi Supplier Cor	is: sc: eted: urce Date: t Location S t Location M sion Commo mment:	o Overburden 10/5/1981 Source: Method: ent:			Zone: East83: North83: Org CS: UTMRC: UTMRC Desc: Location Method:	17 606077.6 4852123 4 margin of error : 30 m - 100 m topo		
<u>Overburden</u> <u>Materials Int</u>	<u>and Bedroc</u> erval	<u>k</u>						
Formation IE Layer: Color: General Colo Mat1: Most Commo Mat2: Other Materi Mat3: Other Materi Formation To Formation E Formation E	D: or: on Material: als: als: op Depth: nd Depth: nd Depth U	ЭМ:	932051414 1 02 TOPSOIL 0 1 ft					
<u>Overburden</u>	and Bedroc	<u>k</u>						

Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
<u>al</u>					
Material:	932051417 4 10 COARSE SAND				
Denth:	32				
Depth:	35				
Depth UOM:	ft				
<u>l Bedrock</u> <u>al</u>					
	932051415				
	6				
	BROWN				
Matorial:	05 CLAY				
naterial.	02.11				
Depth:	1				
Depth:	20				
Depth UOM:	π				
<u>l Bedrock</u> al					
Material:	932051416 3 3 BLUE 05 CLAY				
Depth:	20				
Depth:	32				
Depth UOM:	ft				
<u>l Bedrock</u> al					
	932051418 5 3 BLUE				
Material:	05 CLAY				
	Number of Records	Number of RecordsDirection/ Distance (m)al932051417 4al932051417 4Waterial:10 COARSE SANDDepth:32 35 ttDepth:32 6 BROWN 05Depth:1 20 6 BROWN 05Depth:1 20 6 BROWN 05Depth:1 20 6 BROWN 05Depth:1 20 CLAYDepth:20 332051416 3 BLUE 05Material:932051416 3 3 BLUE 05Depth:20 20 ttMaterial:20 20 5Depth:1 20 5Material:20 20 5Material:20 32 051416 3 3 BLUE 05Material:20 20 20 20 20Material:20 20 20 21418 5 3 BLUE 05Material:20 20 22 22Material:20 	Number of Direction/ Elev/Diff Records Distance (m) (m) al 932051417 4 Material: 10 COARSE SAND Depth: 32 Depth: 32 Depth: 35 Depth: 1 1 Bedrock al 932051415 2 6 BROWN 05 Material: CLAY Depth: 1 Depth: 20 Depth: 20 Depth: 4 932051416 3 BLUE 05 Material: CLAY Depth: 20 Depth: 20 Depth: 20 Depth: CLAY	Number of Direction/ Elev/Diff Site Distance (m) (m)	Number of Direction/ Elev/Diff Site Records Distance (m) (m) Percent Site Sand Site Sand Site Sand Site Sand Site Sand Site Sand Site Site Sand Site Sand Site Sand Site Site Site Site Site Site Site Site

	Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
-	Formation To	p Depth:	35			
	Formation En	d Depth:	40			
	Formation En	d Depth UOM:	ft			
	<u>Method of Co</u> <u>Use</u>	nstruction & Well				
	Mothod Const	truction ID:				
	Method Const	truction ID.	6			
	Method Const	truction:	Boring			
	Other Method	Construction:	- 5			
	<u>Pipe Informati</u>	ion				
	Pipe ID:		10869067			
	Casing No:		1			
	Comment:					
	Alt Name:					
	Construction	Record - Casing				
	Opping ID		020520040			
	Casing ID: Laver:		930320010 1			
	Layer. Material		3			
	Open Hole or	Material:	CONCRETE			
	Depth From:					
	Depth To:		40			
	Casing Diame	ter:	30			
	Casing Diame	eter UOM:	Inch			
	Casing Depin	00111.	π			
	Results of We	ell Yield Testing				
	Pump Test ID.	:	994905812			
	Pump Set At:					
	Static Level:		12			
	Final Level Af	ter Pumping:	35			
	Recommende	d Pump Depth:	36			
	Fumping Rate	7.	J			
	Recommende	d Pump Rate:	3			
	Levels UOM:		ft			
	Rate UOM:		GPM			
	Water State A	fter Test Code:	1			
	Water State A	ner lest:	CLEAR			
	Pumping Test	tion HR	∠ 4			
	Pumping Dur	ation MIN:	0			
	Flowing:		Ň			
	5					
	<u>Draw Down &</u>	<u>Recovery</u>				
	Pump Test De	etail ID:	934261937			
	Test Type:					
	Test Duration	:	15			
	Test Level:		35			
	Test Level UC	DM:	ft			
	Drow Down	Pagavaru				
	Draw Down &	Recovery				
	Pump Test De	etail ID:	934527675			

Мар Кеу	Number o Records	of	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Test Type: Test Duration Test Level: Test Level UC): DM:	t t	30 35 t			
Draw Down &	Recoverv					
Pump_Test De	etail ID:	ç	934781776			
Test Type: Test Duration Test Level:	12	2	45 35			
Test Level UC	DM:	f	t			
<u>Draw Down &</u>	Recovery					
Pump Test De Test Type:	etail ID:	ę	935046790			
Test Duration Test Level:	:	6	50 35			
Test Level UC	DM:	T	t			
<u>Water Details</u>						
Water ID: Layer: Kind Code:		ç	933793819 I I			
Kind: Water Found	Depth:	F	- FRESH 32			
Water Found	Depth UOM:	f	t			
<u>25</u>	1 of 1		ESE/129.0	206.1/-2.79	Brampton ON	wwis
Well ID: Construction Primary Wate Sec. Water Us	Date: r Use: se:	7249972			Data Entry Status: Data Src: Date Received: Selected Flaq:	10/14/2015 Yes
Final Well Sta Water Type: Casing Mater	ntus: ial:	Abandone	d-Other		Abandonment Rec: Contractor: Form Version:	Yes 7472 7
Audit No: Tag:		Z219826			Owner: Street Name:	HWY 50 ASTLEMORE ROAD-COLERAINE
Construction Elevation (m) Elevation Rel Depth to Bed Well Depth: Overburden/E	Method: : iability: rock: Bedrock:				County: Municipality: Site Info: Lot: Concession: Concession Name:	YORK VAUGHAN TOWN (VAUGHAN TWP)
Static Water I Static Water I Flowing (Y/N) Flow Rate: Clear/Cloudy:	Level: :				Easting NADes. Northing NAD83: Zone: UTM Reliability:	
Bore Hole Infe	ormation	100572055	54		Elevation	207 005260
Dore Hole ID: DP2BR: Spatial Status Code OB: Code OB Des	5: C:	100373955	J ~1		Elevation: Elevrc: Zone: East83: North83:	17 606644 4851825

Map Key Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Open Hole: Cluster Kind: Date Completed: 9/10/20 Remarks: Elevrc Desc: Location Source Date: Improvement Location Source: Improvement Location Method: Source Revision Comment: Supplier Comment:	15		Org CS: UTMRC: UTMRC Desc: Location Method:	UTM83 4 margin of error : 30 m - 100 m wwr	
<u>Annular Space/Abandonment</u> <u>Sealing Record</u>					
Plug ID: Layer: Plug From: Plug To: Plug Depth UOM:	1005770400 1 0 12 m				
Pipe Information					
Pipe ID: Casing No: Comment: Alt Name:	1005770392 0				
Construction Record - Casing					
Casing ID: Layer: Material: Open Hole or Material: Depth From: Depth To: Casing Diameter: Casing Diameter UOM: Casing Depth UOM:	1005770397 cm m				
Construction Record - Screen					
Screen ID: Layer: Slot: Screen Top Depth: Screen End Depth: Screen Material: Screen Depth UOM:	1005770398 m				
Screen Diameter UOM: Screen Diameter:	cm				
<u>Hole Diameter</u>					
Hole ID: Diameter: Depth From: Depth To: Hole Depth UOM: Hole Diameter UOM:	1005770395 5.2 6.1 12 m cm				

Hole Diameter

Map Key Number Record		r of Direction/ s Distance (m)	Elev/Diff (m)	Site	DB
Hole ID: Diameter: Depth From: Depth To: Hole Depth U Hole Diamete	IOM: er UOM:	1005770394 21 0 6.1 m cm			
<u>26</u>	1 of 1	N/131.1	209.9 / 1.00	BRAMPTON ON	WWIS
Well ID: Construction Primary Wate Sec. Water U Final Well St. Water Type: Casing Mate Audit No: Tag: Construction Elevation Re Depth to Beo Well Depth: Overburden// Pump Rate: Static Water Flowing (Y/N Flow Rate: Clear/Cloudy	n Date: er Use: lse: atus: rial: n Method:): liability: drock: Bedrock: Level: ():	7241946 Monitoring and Test Hole Observation Wells Z208700 A181319		Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec: Contractor: Form Version: Owner: Street Name: County: Municipality: Site Info: Lot: Concession: Concession: Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability:	5/28/2015 Yes 7241 7 4 CORDETTA RD PEEL BRAMPTON CITY (TORONTO GORE)
<u>Bore Hole In</u>	formation				
Bore Hole ID DP2BR: Spatial Statu Code OB: Code OB Des Open Hole: Cluster Kind.	: s: sc: :	1005384403		Elevation: Elevrc: Zone: East83: North83: Org CS: UTMRC:	210.352798 17 606298 4852406 UTM83 4 magning of errors 120 m = 100 m
Remarks: Elevrc Desc: Location Sou Improvement Source Revis Supplier Con	Irce Date: t Location S t Location I sion Comm nment:	Source: Method: ent:		Location Method:	wwr
<u>Overburden a</u> Materials Inte	and Bedroc erval	<u>:k</u>			
Formation ID Layer: Color: General Colo Mat1: Most Commo Mat2: Other Materia Mat3:): pr: pn Material: als:	1005608655 3 2 GREY 06 SILT 73			
Other Materia	als:	HARD			
139	erisinfo.co	om Environmental Risk Info	ormation Service	es	Order No: 20190508200

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Formation To	op Depth:	12			
Formation Er	nd Depth:	27			
Formation Er	nd Depth UOM:	ft			
<u>Overburden a</u>	and Bedrock				
Materials Inte	erval				
Formation ID	_	1005609654			
Formation ID	-	1000000004			
Color:		6			
General Colo	r:	BROWN			
Mat1:		28			
Most Commo	on Material:	SAND			
Mat2: Other Meteric		06 SH T			
Mat3:	<i>us.</i>	66			
Other Materia	als:	DENSE			
Formation To	op Depth:	7			
Formation Er	nd Depth:	12			
Formation Er	nd Depth UOM:	ft			
<u>Overburden a</u> <u>Materials Inte</u>	and Bedrock erval				
Formation ID		1005608653			
Layer:	-	1			
Color:		6			
General Colo	r:	BROWN			
Mati: Most Commo	n Mətorial:				
Mat2:	in material.	11			
Other Materia	als:	GRAVEL			
Mat3:		77			
Other Materia	als: In Donthi	LOOSE			
Formation FC	op Depth: nd Depth:	7			
Formation Er	nd Depth UOM:	ft			
	•				
<u>Annular Spaces Sealing Reco</u>	<u>ce/Abandonment</u> rd				
Plua ID:		1005608663			
Layer:		1			
Plug From:		0			
Plug To:		16			
Plug Depth 0		п			
<u>Annular Spac</u> Sealing Reco	<u>ce/Abandonment</u> ard				
Plua ID:		1005608664			
Layer:		2			
Plug From:		16			
Plug To:		27			
Plug Depth U	OM:	ft			
<u>Method of Co</u> <u>Use</u>	onstruction & Well				
Method Cons	struction ID:				
Method Cons	truction Code:	B			
Method Cons	struction:	Other Method			
140	erisinfo.com Env	vironmental Risk Info	rmation Service	S	Order No: 20190508200

Мар Кеу	Numbe Record	r of s	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Other Metho	d Construc	tion:	DIRECT PUSH				
<u>Pipe Informa</u>	<u>tion</u>						
Pipe ID: Casing No: Comment: Alt Name:			1005608652 0				
<u>Construction</u>	Record - (Casing					
Casing ID: Layer: Material: Open Hole of Depth From: Depth To: Casing Diam Casing Diam Casing Depth	r Material: eter: eter UOM: h UOM:		1005608658 1 5 PLASTIC 0 17 2 inch ft				
<u>Construction</u>	Record - S	Screen					
Screen ID: Layer: Slot: Screen Top I Screen End I Screen Mate Screen Diam Screen Diam	Depth: Depth: rial: h UOM: eter UOM: eter:		1005608659 1 10 17 27 5 ft inch 2.25				
Hole Diamete	<u>er</u>						
Hole ID: Diameter: Depth From: Depth To: Hole Depth U Hole Diamete	IOM: er UOM:		1005608656 6 0 27 ft inch				
27	1 of 1		E/144.7	206.3 / -2.52	KLEINBURG ON		wwis
Well ID: Construction Primary Wate Sec. Water U	n Date: er Use: Ise:	7302203 Test Hole Monitoring	I		Data Entry Status: Data Src: Date Received: Selected Flag:	12/22/2017 Yes	

Abandonment Rec:

Contractor:

Owner:

County:

Site Info:

Lot:

Form Version:

Street Name:

Municipality:

Concession:

Concession Name: Easting NAD83:

Northing NAD83:

7241

YORK

9501 HWY 50

VAUGHAN TOWN (VAUGHAN TWP)

7

Casing Material: Audit No: Tag: Construction Method: Elevation (m): Elevation Reliability: Depth to Bedrock: Well Depth: Overburden/Bedrock: Pump Rate: Static Water Level:

Final Well Status:

Water Type:

141

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Observation Wells

Z274189

A167821

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Flowing (Y/N)	:			Zone:		
Flow Rate:				UTM Reliability:		
Clear/Cloudy:						
Bore Hole Infe	ormation					
Bore Hole ID: DP2BR:	1006924	743		Elevation: Elevrc:	208.187667	
Spatial Status	5:			Zone:	17	
Code OB:				East83:	606712	
Code OB Des	c:			North83:	4851930	
Open Hole:				Org CS:	UTM83	
Cluster Kind:				UTMRC:	4	
Date Complet	ted: 11/23/20	17		UTMRC Desc:	margin of error : 30 m - 100 m	
Remarks:				Location Method:	wwr	
Elevrc Desc:	-					
Location Sou	rce Date:					
Improvement	Location Source:					
Improvement	Location Method:					
Source Revis	ion comment:					
Supplier Com	iment.					
<u>Overburden a</u> <u>Materials Inte</u>	<u>ind Bedrock</u> rval					
Formation ID:		1007100398				
Laver:		2				
Color:		6				
General Color	r:	BROWN				
Mat1:		06				
Most Commo	n Material:	SILT				
Mat2:		34				
Other Materia	ls:	TILL				
Mat3:						
Other Materia	ls:					
Formation To	p Depth:	73				
Formation En	d Deptn:	15				
Formation En	a Depth COM:	n				
<u>Overburden a</u> <u>Materials Inte</u>	nd Bedrock rval					
Formation ID:		1007100399				
Layer:		3				
Color:		2				
General Color	r:	GREY				
Mat1:		05				
Most Commo	n Material:	CLAY				
Mat2:	1-	34				
Other Materia	IS:	IILL				
Mats:	la					
Other Materia	n Donthi	15				
Formation 10	p Depth: d Depth:	10 23				
Formation En	d Depth UOM·	∠J ft				
ronnauon En		n.				
<u>Overburden a</u> <u>Materials Inte</u>	nd Bedrock rval					

Map Key N R	lumber of Records	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
General Color: Mat1: Most Common N Mat2: Other Materials: Mat3: Other Materials: Formation Top D Formation End D Formation End D	laterial: Depth: Depth: Depth UOM:	BROWN 11 GRAVEL 0 73 ft				
<u>Annular Space/A</u> <u>Sealing Record</u>	bandonment					
Plug ID: Layer: Plug From: Plug To: Plug Depth UOM	:	1007100407 1 0 1 ft				
<u>Annular Space/A</u> <u>Sealing Record</u>	bandonment					
Plug ID: Layer: Plug From: Plug To: Plug Depth UOM	:	1007100409 3 12 23 ft				
<u>Annular Space/A</u> <u>Sealing Record</u>	bandonment					
Plug ID: Layer: Plug From: Plug To: Plug Depth UOM	:	1007100408 2 1 12 ft				
<u>Method of Const</u> <u>Use</u>	ruction & Well					
Method Construe Method Construe Method Construe Other Method Co	ction ID: ction Code: ction: onstruction:	D Direct Push				
Pipe Information	!					
Pipe ID: Casing No: Comment: Alt Name:		1007100396 0				
Construction Re	cord - Casing					
Casing ID: Layer: Material: Open Hole or Ma Depth From: Depth To:	terial:	1007100402 1 5 PLASTIC 0 13				

Мар Кеу	Number Records	of	Direction/ Distance (m)	Elev/Diff (m)	Site	1	DB
Casing Diam Casing Diam Casing Dept	eter: eter UOM: h UOM:	2 in ft	ch				
Construction	Record - S	<u>creen</u>					
Screen ID: Layer: Slot: Screen Top D Screen End D Screen Mater Screen Depth Screen Diamo	Depth: Depth: rial: n UOM: eter UOM: eter:	10 1 10 12 5 5 ft in 2.	007100403 0 3 3 ch 25				
Hole Diamete	<u>er</u>						
Hole ID: Diameter: Depth From: Depth To: Hole Depth U Hole Diamete	IOM: er UOM:	10 6 0 23 ft in	007100400 3 ch				
<u>28</u>	1 of 18		WNW/148.4	206.9/-2.00	16 Cadetta Rd Brampton ON L6P 0X4	ЕН	IS
Order No: Status: Report Type: Report Date: Date Receive Previous Site Lot/Building Additional In	d: Name: Size: fo Ordered:	2007070500 C CAN - Comp 7/13/2007 7/5/2007	03 plete Report		Nearest Intersection: Municipality: Client Prov/State: Search Radius (km): X: Y:	0.25 -79.681053 43.814909	
<u>28</u>	2 of 18		WNW/148.4	206.9 / -2.00	1389147 ONTARIO INC 16 CADETTA ROAD BRAMPTON ON L6P 02	GE X4	EN
Generator No Status: Approval Yea Contam. Faci MHSW Facilit	o: ars: ility: tv:	ON2949179 2010)		PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin:		
SIC Code: SIC Descripti	ion:	484110 G	eneral Freight Tru	cking Local			
<u>Detail(s)</u>							
Waste Class: Waste Class	Desc:	25 W	52 /ASTE OILS & LUI	BRICANTS			
<u>28</u>	3 of 18		WNW/148.4	206.9 / -2.00	1389147 ONTARIO INC 16 CADETTA ROAD BRAMPTON ON L6P 02	GE X4	EN
Generator No Status:): 	ON2949179)		PO Box No: Country:		

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Мар Кеу	Number Records	of	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Approval Yea Contam. Faci MHSW Facilit SIC Code:	nrs: lity: ly:	2012 484110			Choice of Contact: Co Admin: Phone No Admin:	
SIC Descripti	on:		General Freight Tr	ucking Local		
<u>Detail(s)</u>						
Waste Class: Waste Class	Desc:		252 WASTE OILS & LU	JBRICANTS		
<u>28</u>	4 of 18		WNW/148.4	206.9 / -2.00	1389147 ONTARIO INC 16 CADETTA ROAD BRAMPTON ON L6P 0X4	GEN
Generator No Status:	:	ON2949 ⁻	179		PO Box No: Country:	
Approval Yea Contam. Faci MHSW Facilit	nrs: lity: v:	2011			Choice of Contact: Co Admin: Phone No Admin:	
SIC Code: SIC Description	on:	484110	General Freight Tr	ucking Local		
<u>Detail(s)</u>						
Waste Class: Waste Class	Desc:		252 WASTE OILS & LU	JBRICANTS		
<u>28</u>	5 of 18		WNW/148.4	206.9 / -2.00	1389147 ONTARIO INC 16 CADETTA ROAD BRAMPTON ON	GEN
Generator No		ON2949 [,]	179		PO Box No:	
Approval Yea	rs: lity:	2013			Country: Choice of Contact: Co. Admin:	
MHSW Facilit SIC Code: SIC Descripti	y: on:	484110	GENERAL FREIG	HT TRUCKING, LC	Phone No Admin:	
<u>Detail(s)</u>						
Waste Class: Waste Class	Desc:		252 WASTE OILS & LU	JBRICANTS		
<u>28</u>	6 of 18		WNW/148.4	206.9 / -2.00	AVENUE STRUCTURES CORPORATION 16 CADETTA ROAD BRAMPTON ON L6T 3Z8	GEN
Generator No: ON0706		400		PO Box No:		
Approval Yea Contam. Faci	nrs: lity:	86,87,88,89,90			Choice of Contact: Co Admin:	
SIC Code: SIC Description	y: 0007 on:		LETTER ACKNOWLEDG.		Phone no Admin:	
<u>Detail(s)</u>						
Waste Class:			213			
145	erisinfo.co	m Envir	onmental Risk Inf	ormation Service	es C)rder No: 20190508200

Map Key Number of Records		Direction/ Distance (m)	Elev/Diff (m)	Site	DB	
Waste Class	Desc:		PETROLEUM DIS	TILLATES		
<u>28</u>	7 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:		ON2949 2009 484110	179 General Freight Tru	ucking Local	PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin:	
<u>Detail(s)</u>						
Waste Class Waste Class	: Desc:		252 WASTE OILS & LU	JBRICANTS		
<u>28</u>	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 Status: Approval Ye Contam. Fac MHSW Facili SIC Code: SIC Descript	o: ars: :ility: ity: tion:	ON0706 99,00 4222	400 FORM WORK		PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin:	
<u>Detail(s)</u>						
Waste Class: Waste Class Desc:			213 PETROLEUM DIS	TILLATES		
<u>28</u>	9 of 18		WNW/148.4	206.9 / -2.00	Avenue Building Corporation 16 CADETTA ROAD BRAMPTON ON L6T 3Z8	GEN
Generator No Status: Approval Yea Contam. Fac MHSW Facili SIC Code: SIC Descript	o: ars: ility: ity: tion:	ON25409	900		PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin:	
<u>Detail(s)</u>						
Waste Class Waste Class	: Desc:		252 WASTE OILS & LU	JBRICANTS		
Waste Class Waste Class	Waste Class: 145 Waste Class Desc: PAINT/PIGMENT/COATING RESIDE			COATING RESIDU	IES	
Waste Class Waste Class	: Desc:		253 EMULSIFIED OILS	3		

Map Key Number Records		of S	Direction/ Distance (m)	Elev/Diff (m)	Site	DB	
<u>28</u>	10 of 18		WNW/148.4	206.9 / -2.00	CANFORM STRUCTURES LIMITED 16 CADETTA ROAD BRAMPTON ON L6T 3Z8	GEN	
Generator No): 	ON25409	900		PO Box No:		
Approval Yea Contam. Faci MHSW Facilit	ars: ility: tv:	99,00,01	,02,03		Country: Choice of Contact: Co Admin: Phone No Admin:		
SIC Code: SIC Descripti	ion:	4022	COMMERCIAL BU	ILDING			
<u>Detail(s)</u>							
Waste Class: Waste Class	Desc:		252 WASTE OILS & LU	IBRICANTS			
<u>28</u>	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): 	ON07064	400		PO Box No: Country:		
Approval Yea Contam. Faci	ars: ility:	94,95,96			Choice of Contact: Co Admin:		
MHSW Facility: SIC Code: SIC Description:		4222	FORM WORK		Phone No Admin:		
<u>Detail(s)</u>							
Waste Class: Waste Class	Desc:		213 PETROLEUM DIST	TILLATES			
<u>28</u>	12 of 18		WNW/148.4	206.9 / -2.00	1389147 ONTARIO INC 16 CADETTA ROAD BRAMPTON ON L6P 0X4	GEN	
Generator No Status:):	ON29497	179		PO Box No: Country:		
Approval Years: Contam. Facility:		07,08			Choice of Contact: Co Admin: Phone No Admin:		
SIC Code: SIC Descripti	ion:	484110 General Freight Trucking Local		ucking Local			
<u>Detail(s)</u>							
Waste Class: Waste Class	Desc:		252 WASTE OILS & LU	IBRICANTS			
<u>28</u>	13 of 18		WNW/148.4	206.9 / -2.00	AVENUE STRUCTURES CORPORATION 16 CADETTA ROAD BRAMPTON ON L6T 3Z8	GEN	
Generator No): 	ON07064	400		PO Box No: Country:		
Approval Yea Contam. Faci MHSW Facilit	ars: ility: tv:	92,93,97	,98		Choice of Contact: Co Admin: Phone No Admin:		
MHSW Facility: SIC Code:		4222					

Map Key N R	lumber of Records		Direction/ Distance (m)	Elev/Diff (m)	Site		DB
SIC Description:	,		FORM WORK				
<u>Detail(s)</u>							
Waste Class: Waste Class Des	sc:		213 PETROLEUM DISTII	LLATES			
<u>28</u> 14	of 18		WNW/148.4	206.9/-2.00	1389147 ONTARIO INC 16 CADETTA ROAD BRAMPTON ON L6P0X	: (4	GEN
Generator No: Status: Approval Years: Contam. Facility: MHSW Facility: SIC Code: SIC Description:	0N 20 : No No 48	N29491 16 0 0 4110	79 GENERAL FREIGHT	TRUCKING. LOC	PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin: CAL	Canada CO_ADMIN FALGUNI SONI 905-612-9046 Ext.226	
<u>Detail(s)</u>							
Waste Class: Waste Class Des	sc:		252 WASTE OILS & LUB	RICANTS			
<u>28</u> 15	of 18		WNW/148.4	206.9 / -2.00	1389147 ONTARIO INC 16 CADETTA ROAD BRAMPTON ON L6P0X	; (4	GEN
Generator No: Status: Approval Years: Contam. Facility: MHSW Facility: SIC Code: SIC Description:	ON 20 : No No 48	N29491 15 0 4110	79 GENERAL FREIGHT	TRUCKING, LOC	PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin: CAL	Canada CO_ADMIN FALGUNI SONI 905-612-9046 Ext.226	
<u>Detail(s)</u>							
Waste Class: Waste Class Des	SC:		252 WASTE OILS & LUB	RICANTS			
<u>28</u> 16	of 18		WNW/148.4	206.9 / -2.00	1389147 ONTARIO INC 16 CADETTA ROAD BRAMPTON ON L6P0X	c (4	GEN
Generator No: Status: Approval Years: Contam. Facility: MHSW Facility: SIC Code: SIC Description:	ON 20 : No No 48	N29491 14 5 5 4110	79 GENERAL FREIGHT	TRUCKING, LOC	PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin: CAL	Canada CO_ADMIN FALGUNI SONI 905-612-9046 Ext.226	
<u>Detail(s)</u>							
Waste Class: Waste Class Des	SC:		252 WASTE OILS & LUB	RICANTS			
Мар Кеу	Number Records	of Direction/ Distance (m)	Elev/Diff (m)	Site	DB		
---	---	---	--------------------	--	--		
<u>28</u>	17 of 18	WNW/148.4	206.9 / -2.00	1389147 ONTARIO INC 16 CADETTA ROAD BRAMPTON ON L6P0X	GEN		
Generator No Status: Approval Yea Contam. Faci MHSW Facilit SIC Code: SIC Descripti	o: ars: ility: ty: ion:	ON2949179 Registered As of Dec 2018		PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin:	Canada		
<u>Detail(s)</u>							
Waste Class: Waste Class	Desc:	252 L Waste crankcase o	ils and lubricants				
<u>28</u>	18 of 18	WNW/148.4	206.9/-2.00	1389147 ONTARIO INC 16 CADETTA ROAD BRAMPTON ON L6P0X	GEN		
Generator No Status: Approval Yea Contam. Faci MHSW Facilit SIC Code: SIC Descripti	o: ars: illity: ty: ion:	ON2949179 Registered As of Mar 2019		PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin:	Canada		
<u>Detail(s)</u>							
Waste Class: Waste Class	Desc:	252 L Waste crankcase o	ils and lubricants				
<u>29</u>	1 of 1	NW/156.2	208.7 / -0.14	lot 12 con 11 ON	WWIS		
Well ID: Construction Primary Wate Sec. Water U Final Well Sta Water Type: Casing Mater Audit No: Tag: Construction Elevation (m) Elevation Rel Depth to Bed Well Depth: Overburden/I Pump Rate: Static Water of Flowing (Y/N) Flow Rate: Clear/Cloudy	Date: ser Use: se: atus: rial: Method:): liability: lrock: Bedrock: Level:):	4905769 Industrial Water Supply		Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec: Contractor: Form Version: Owner: Street Name: County: Municipality: Site Info: Lot: Concession: Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability:	1 4/10/1981 Yes 1413 1 PEEL BRAMPTON CITY (TORONTO GORE) 012 11 CON		
Bore Hole Inf	formation	10200100			000 500000		
DP2BR:		10320402		Elevic:	200.020900		
149	erisinfo.cc	m Environmental Risk Info	ormation Services	3	Order No: 20190508200		

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Spatial Status Code OB: Code OB Desi Open Hole: Cluster Kind: Date Complete Remarks: Elevrc Desc: Location Sour Improvement Improvement Source Revisi Supplier Com	c: 0 c: Overburd ed: 3/26/198 ⁻⁷ rce Date: Location Source: Location Method: ion Comment: ment:	en 1		Zone: East83: North83: Org CS: UTMRC: UTMRC Desc: Location Method:	17 606120.6 4852223 4 margin of error : 30 m - 100 m topo	
<u>Overburden a</u> <u>Materials Inte</u>	<u>nd Bedrock</u> rval					
Formation ID: Layer: Color: General Color Mat1: Most Common Mat2: Other Materia Mat3: Other Materia Formation To Formation En Formation En	: n Material: ls: ls: p Depth: d Depth: d Depth UOM:	932051222 3 6 BROWN 28 SAND 11 GRAVEL 74 LAYERED 42 45 ft				
<u>Overburden a</u> Materials Inte	<u>nd Bedrock</u> rval					
Formation ID: Layer: Color: General Color Mat1: Most Common Mat2: Other Materia Mat3: Other Materia Formation To Formation En Formation En	: n Material: ls: ls: p Depth: d Depth: d Depth UOM:	932051221 2 3 BLUE 05 CLAY 66 DENSE 14 42 ft				
<u>Overburden a</u> <u>Materials Inte</u>	<u>nd Bedrock</u> rval					
Formation ID: Layer: Color: General Color Mat1: Most Common Mat2: Other Materia Mat3: Other Materia Formation To Formation En	:: n Material: ls: ls: p Depth: d Depth:	932051220 1 6 BROWN 05 CLAY 66 DENSE 0 14				

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Formation En	d Depth UOM:	ft			
<u>Method of Co</u> <u>Use</u>	nstruction & Well				
Method Cons Method Cons Method Cons Other Method	truction ID: truction Code: truction: I Construction:	2 Rotary (Convent.)			
Pipe Informat	ion				
Pipe ID: Casing No: Comment: Alt Name:		10869032 1			
Construction	Record - Casing				
Casing ID: Layer: Material: Open Hole or Depth From: Depth To: Casing Diame Casing Diame Casing Depth	Material: eter: eter UOM: UOM:	930528764 1 STEEL 45 8 inch ft			
<u>Results of We</u>	ell Yield Testing				
Pump Test ID Pump Set At: Static Level: Final Level At Recommende Pumping Rate Recommende Levels UOM: Rate UOM: Water State A Pumping Tes Pumping Dur Flowing:	: ter Pumping: ed Pump Depth: e: ed Pump Rate: fter Test Code: fter Test: t Method: ation HR: ation MIN:	994905769 9 37 40 3 3 ft GPM 2 CLOUDY 2 2 30 N			
<u>Draw Down &</u>	Recovery				
Pump Test De Test Type: Test Duration Test Level: Test Level UC	etail ID: : DM:	934781757 45 33 ft			
<u>Draw Down &</u>	Recovery				
Pump Test De Test Type:	etail ID:	935046770			
Test Duration	:	60			

Map Key	Number Records	r of S	Direction/ Distance (m)	Elev/Diff (m)	Site	DE
Test Level:	<u></u>		34			
Test Level U	OW:		π			
<u>Draw Down &</u>	& Recovery					
Pump Test D	etail ID:		934527653			
Test Duration	n:		30			
Test Level:	ОМ·		29 ft			
	0					
<u>Draw Down &</u>	<u>& Recovery</u>					
Pump Test D	etail ID:		934261913			
Test Duration	n:		15			
Test Level:	0 14:		23 #			
Test Level O	011.		it.			
Water Details	<u>S</u>					
Water ID:			933793781			
Layer: Kind Code:			1			
Kind:			FRESH			
Water Found Water Found	l Depth: I Depth UOI	И:	45 ft			
	-					
<u>30</u>	1 of 1		E/156.5	205.9 / -3.00	KLEINBURG ON	WWIS
Well ID:		7302202			Data Entry Status:	
Construction	n Date: er Use:	Test Hol	۵		Data Src: Data Received:	12/22/2017
Sec. Water U	lse:	Monitorir	ng		Selected Flag:	Yes
Final Well Sta Water Type:	atus:	Observat	tion Wells		Abandonment Rec: Contractor:	7241
Casing Mater	rial:				Form Version:	7
Audit No:		Z274188			Owner: Stroot Namo:	
Construction	n Method:	A100933)		County:	YORK
Elevation (m)): 				Municipality:	VAUGHAN TOWN (VAUGHAN TWP)
Depth to Bed	liability: drock:				Site info: Lot:	
Well Depth:	(D / /				Concession:	
Overburden/I Pump Rate:	Bedrock:				Concession Name: Easting NAD83:	
Static Water	Level:				Northing NAD83:	
Flowing (Y/N) Flow Rate:):				Zone: UTM Reliabilitv:	
Clear/Cloudy	<i>ı</i> :				•	
Bore Hole Int	formation					
Boro Holo ID		1006024	740		Flovation	208 086349
DP2BR:	•	1000924	U-1		Elevrc:	200.000000
Spatial Statu	s:				Zone:	17
Code OB: Code OB Des	sc:				North83:	4851917
Open Hole:	-				Org CS:	UTM83
Date Comple	: eted:	11/23/20	17		UTMRC: UTMRC Desc:	4 margin of error : 30 m - 100 m
						-

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

N	lap Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
PI La PI PI PI	lug ID: ayer: lug From: lug To: lug Depth U	IOM:	1007100394 2 1 12 ft			
<u>A</u> <u>Se</u>	nnular Spac ealing Reco	<u>ce/Abandonment</u> rd				
Pi La Pi Pi Pi	lug ID: ayer: lug From: lug To: lug Depth U	IOM:	1007100395 3 12 23 ft			
<u>A</u> <u>S</u> e	nnular Spac ealing Reco	ce/Abandonment_ ord				
PI La PI PI PI	lug ID: ayer: lug From: lug To: lug Depth U	OM:	1007100393 1 0 1 ft			
<u>M</u> U:	ethod of Co se	onstruction & Well				
M M M O	ethod Cons ethod Cons ethod Cons ther Method	truction ID: truction Code: truction: d Construction:	D Direct Push			
<u>Pi</u>	ipe Informa	<u>tion</u>				
Pi Ca Ca Al	ipe ID: asing No: omment: It Name:		1007100382 0			
<u>C</u>	onstruction	Record - Casing				
	asing ID: ayer: aterial: pen Hole or epth From: epth To: asing Diamo asing Diamo asing Depth	Material: eter: eter UOM: n UOM:	1007100388 1 5 PLASTIC 0 13 2 inch ft			
<u>C</u>	onstruction	Record - Screen				
S0 Lä S1 S0 S0 S0 S0 S0 S0	creen ID: ayer: lot: creen Top I creen End I creen Mater creen Deptf creen Diam	Depth: Depth: rial: n UOM: eter UOM:	1007100389 1 10 13 23 5 ft inch			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Screen Diam	eter:	2.25			
<u>Hole Diamete</u>	<u>er</u>				
Hole ID: Diameter: Depth From: Depth To: Hole Depth U Hole Diamete	IOM: er UOM:	1007100386 6 0 23 ft inch			
<u>31</u>	1 of 1	WNW/157.8	206.9/-2.00	lot 12 con 11 ON	wwis
Well ID: Construction Primary Wate Sec. Water U Final Well Sta Water Type: Casing Mater Audit No: Tag: Construction Elevation (m) Elevation Rel Depth to Bed Well Depth: Overburden/I Pump Rate: Static Water I Flowing (Y/N) Flow Rate: Clear/Cloudy	72: Pate: Pr Use: No se: Ab rial: Z11 Method: liability: rock: Bedrock: Level:): :	25368 t Used andoned-Supply 85833		Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec: Contractor: Form Version: Owner: Street Name: County: Municipality: Site Info: Lot: Concession: Concession: Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability:	8/12/2014 Yes 1663 7 16 CADETTA RD. PEEL BRAMPTON CITY (TORONTO GORE) 012 11 CON
Bore Hole Inf Bore Hole ID: DP2BR: Spatial Status Code OB: Code OB Des Open Hole: Cluster Kind: Date Complet Remarks: Elevrc Desc: Location Sou Improvement Improvement Source Revis Supplier Com	tormation 100 100 100 100 100 100 100 10	05056302 5/2014 foce: food:		Elevation: Elevrc: Zone: East83: North83: Org CS: UTMRC: UTMRC Desc: Location Method:	207.600082 17 605984 4852053 UTM83 4 margin of error : 30 m - 100 m wwr
<u>Sealing Reco</u> Plug ID: Layer: Plug From: Plug To: Plug Depth U	non:	1005270613 2 2 12 m			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Annular Space	e/Abandonment rd				
Plug ID: Layer: Plug From: Plug To: Plug Depth U	ОМ:	1005270612 1 0 2 m			
<u>Method of Co</u> <u>Use</u>	onstruction & Well				
Method Cons Method Cons Method Cons Other Method	truction ID: truction Code: truction: Construction:	B Other Method			
<u>Pipe Informat</u>	<u>tion</u>				
Pipe ID: Casing No: Comment: Alt Name:		1005270603 0			
Construction	Record - Casing				
Casing ID: Layer: Material: Open Hole or Depth From: Depth To: Casing Diamo Casing Diamo Casing Depth	Material: eter: eter UOM: n UOM:	1005270608 1 3 CONCRETE 0 12 92 cm m			
<u>Construction</u>	<u>Record - Screen</u>	4005070000			
Screen ID: Layer: Slot: Screen Top D Screen End D Screen Mater Screen Depth Screen Diamo Screen Diamo	Depth: Depth: ial: u UOM: eter UOM: eter:	1005270609 m cm			
<u>Results of We</u>	ell Yield Testing				
Pump Test ID Pump Set At: Static Level: Final Level A Recommende Pumping Rate): fter Pumping: ed Pump Depth: e: : -	1005270604 1			
Recommende Levels UOM: Rate UOM: Water State A Water State A	ea Pump Rate: After Test Code: After Test:	m LPM 0			

Map Key Numbe Record	er of Direction/ ds Distance (m)	Elev/Diff) (m)	Site	DB
Pumping Test Method: Pumping Duration HR: Pumping Duration MIN Flowing:	0			
Water Details				
Water ID: Layer: Kind Code: Kind: Water Found Depth: Water Found Depth UC	1005270607 1 8 Untested DM: m			
Hole Diameter				
Hole ID: Diameter: Depth From: Depth To: Hole Depth UOM: Hole Diameter UOM:	1005270606 92 0 12 m cm			
<u>32</u> 1 of 1	NW/158.2	207.5/-1.38	Brampton ON	wwis
Well ID: Construction Date: Primary Water Use: Sec. Water Use: Final Well Status: 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:	7178624 Test Hole Test Hole Z145891 A126986		Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec: Contractor: Form Version: Owner: Street Name: County: Municipality: Site Info: Lot: Concession: Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability:	3/29/2012 Yes 7320 7 16 CADETLA ROAD PEEL BRAMPTON CITY (TORONTO GORE)
Bore Hole Information 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	1003706330 3/21/2012 Source: Method:		Elevation: Elevrc: Zone: East83: North83: Org CS: UTMRC: UTMRC Desc: Location Method:	208.060363 17 606073 4852166 UTM83 4 margin of error : 30 m - 100 m wwr
Well Depth: Overburden/Bedrock: Pump Rate: Static Water Level: Flowing (Y/N): Flow Rate: Clear/Cloudy: Bore Hole Information 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	1003706330 3/21/2012 Source: Method:		Concession: Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability: Elevation: Elevrc: Zone: East83: North83: Org CS: UTMRC: UTMRC Desc: Location Method:	208.060363 17 606073 4852166 UTM83 4 margin of error : 30 m - 100 m wwr

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Source Revis Supplier Con	sion Comment: nment:				
<u>Overburden a</u> <u>Materials Inte</u>	and Bedrock erval				
Formation ID Layer: Color: General Colo Mat1: Most Commo Mat2: Other Materia Mat3: Other Materia Formation To Formation Er Formation Er	: r: on Material: als: als: op Depth: od Depth: od Depth: od Depth UOM:	1004229769 3 6 BROWN 05 CLAY 06 SILT 66 DENSE 2.5 4.6 m			
<u>Overburden a</u> Materials Inte	and Bedrock erval				
Formation ID Layer: Color: General Colo Mat1: Most Commo Mat2: Other Materia Mat3: Other Materia Formation To Formation Er Formation Er	: r: on Material: als: als: op Depth: ad Depth: ad Depth UOM:	1004229770 4 2 GREY 05 CLAY 06 SILT 11 GRAVEL 4.6 12.1 m			
<u>Overburden a</u> Materials Inte	and Bedrock erval				
Formation ID	:	1004229768			

	1004223
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

Overburden and Bedrock Materials Interval

Formation ID:	1004229767
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	05

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

159 eris

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Casing Dept	h UOM:	m			
<u>Construction</u>	n Record - Screer	<u>1</u>			
Screen ID:		1004229774			
Laver:		1			
Slot:		10			
Screen Top I	Depth:	10.6			
Screen End	Depth:	12.1			
Screen Mate	rial:	5			
Screen Depti	n UOW: hotor UOM:	rn cm			
Screen Diam	ieter:	6.1			
Water Details	<u>s</u>				
Water ID:		1004229772			
Layer:		1			
Kind Code:		ð Lintested			
Water Found	l Depth:	1.25			
Water Found	I Depth UOM:	m			
Hole Diamete	<u>er</u>				
Hole ID:		1004229771			
Diameter:		15			
Depth From:		0			
Depth To: Holo Dopth I	IOM:	12.1 m			
Hole Diamete	er UOM:	cm			
33	1 of 1	NNW/160.5	209.9 / 1.00	Coleraine junkyard 1976	
				Kleinburg ON L0J 1C0	
Legal Descri	ption:	Toronto Gore Con	9 Lot 12 pt		
Location Des	scription:	W of Highway 50	•		
Municipality:	:	Brampton City			
Current Mun	icipality:	Brampton City			
RM: Facility:		Auto Junkvard			
Date Active:		1976			
Date Begun:					
Date Comple	ete:				
Area (Ha):		9.625			
Group Name	; ;-	Humber River			
Operated Bv		Metro Auto Wrecke	ers Inc		
Serial:		JY PEEL5 1976			
NTS: Diameter (m)):	30M12			
Historical Su	ımmary:				
Coleraine junl	kyard 1976 1978	3 NTS Map Junkyard ma	urked [1978 NTS 1:	50,000 map Brampton ON Sheet 30M13 Editio	on 5].
Waste Type:					
UTM X Nad 2	27:	606200			
UTM Y Nad 2	27:	4852125 17			
o i w zone:		17			
160	erisinfo.com E	Environmental Risk Inf	ormation Service	PS	Order No: 20190508200

Мар Кеу	Number Records	r of S	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>34</u>	1 of 1		E/164.3	205.9 / -3.00	KLEINBURG ON	WWIS
Well ID: Construction Primary Water Sec. Water Of Final Well S Water Type: Casing Mater Audit No: Tag: Construction Elevation (n Elevation (n Elevation (n Elevation Re Depth to Be Well Depth: Overburden Pump Rate: Static Water Flowing (Y/I Flow Rate: Clear/Cloud	n Date: ter Use: Jse: tatus: erial: n Method: n): eliability: drock: /Bedrock: /Bedrock: /Level: N):	7302201 Test Hole Monitorin Observat Z274187 A217619	e ig iion Wells		Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec: Contractor: Form Version: Owner: Street Name: County: Municipality: Site Info: Lot: Concession: Concession: Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability:	12/22/2017 Yes 7241 7 9501 HWY 50 YORK VAUGHAN TOWN (VAUGHAN TWP)
Bore Hole Ir	nformation					
Bore Hole II DP2BR: Spatial Statt Code OB: Code OB De: Open Hole: Cluster Kind Date Comple Remarks: Elevrc Desc Location So Improvemen Source Reve Supplier Co	D: us: esc: d: eted: : urce Date: t Location S of Location I ision Comm mment:	1006924 11/23/20 Source: Method: ent:	737 17		Elevation: Elevrc: Zone: East83: North83: Org CS: UTMRC: UTMRC: UTMRC Desc: Location Method:	208.014694 17 606728 4851899 UTM83 4 margin of error : 30 m - 100 m wwr
<u>Overburden</u> Materials Int	<u>and Bedroc</u> terval	: <u>k</u>				
Formation II Layer: Color: General Col Mat1: Most Comm Mat2: Other Mater Mat3: Other Mater Formation T Formation E	D: or: on Material: ials: ials: op Depth: Ind Depth U	ом:	1007100370 2 6 BROWN 06 SILT 34 TILL 5 15 ft			
<u>Overburden</u> <u>Materials In</u> t	and Bedroo terval	: <u>k</u>				

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Formation ID: Layer: Color: General Color Mat1: Most Commor Mat2: Other Material Mat3: Other Material Formation Top Formation End	: n Material: s: s: o Depth: d Depth: d Depth UOM:	1007100369 1 6 BROWN 11 GRAVEL 0 5 ft				
<u>Overburden al</u> <u>Materials Inter</u>	<u>nd Bedrock</u> <u>val</u>					
Formation ID: Layer: Color: General Color. Mat1: Most Commor Mat2: Other Material Mat3: Other Material Formation Top Formation End	: n Material: s: s: Depth: d Depth: d Depth UOM:	1007100371 3 2 GREY 05 CLAY 34 TILL 15 25 ft				
<u>Annular Space</u> Sealing Recor	e/Abandonment_ d					
Plug ID: Layer: Plug From: Plug To: Plug Depth UC	DM:	1007100380 2 1 14 ft				
<u>Annular Space</u> <u>Sealing Recor</u>	e/Abandonment_ d					
Plug ID: Layer: Plug From: Plug To: Plug Depth UC	DM:	1007100379 1 0 1 ft				
<u>Annular Space</u> <u>Sealing Recor</u>	e/Abandonment d					
Plug ID: Layer: Plug From: Plug To: Plug Depth UC	DM:	1007100381 3 14 25 ft				

Method of Construction & Well Use

Method Construction ID:

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Method Cons Method Cons Other Method	struction Code: struction: d Construction:	D Direct Push			
<u>Pipe Informa</u>	<u>tion</u>				
Pipe ID: Casing No: Comment: Alt Name:		1007100368 0			
<u>Construction</u>	Record - Casing				
Casing ID: Layer: Material: Open Hole or Depth From: Depth To: Casing Diame Casing Diame Casing Depth	r Material: eter: eter UOM: n UOM:	1007100374 1 5 PLASTIC 0 15 2 inch ft			
Construction	Record - Screen				
Screen ID: Layer: Slot: Screen Top L Screen End L Screen Mater Screen Deptf Screen Diame	Depth: Depth: rial: n UOM: eter UOM: eter:	1007100375 1 10 15 25 5 ft inch 2.25			
Hole Diamete	<u>er</u>				
Hole ID: Diameter: Depth From: Depth To: Hole Depth U Hole Diamete	IOM: er UOM:	1007100372 6 0 25 ft inch			
<u>35</u>	1 of 1	NNW/164.6	209.9 / 1.00	Coleraine junkyard 1969	ANDR
				Kleinburg ON L0J 1C0	
Legal Descrip Location Des Municipality: Current Muni RM: Facility: Date Active: Date Begun: Date Comple Area (Ha): Landfill Type Group Name: Operated By: Serial:	otion: cription: icipality: te:	Toronto Gore Con S 25m SW of Highwa Toronto Gore Town Brampton City Peel Region Auto junkyard 1969 11.25 Humber River Metro Truck Wrecke JY PEEL5 1969	9 Lot 12 pt y 50, adj. Humber ship ers	R trib., on site u/g gas pipeline	

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
NTS: Diameter (m):	:	30M12 375			
Historical Su	mmary:				
Coleraine junk pipeline [1972	yard 1969 1972 NTS 1:25,000 Ma	NTS Map 30M12B Jun ap Wildfield ON Sheet 30	kyard marked, 379 M12B Edition 2 (a	5m x 300m, 25m SW of Hig air photos 1969, culture che	hway 50, adj. Humber R trib., on site u/g gas ck 1970, printed 1972)].
Waste Type: UTM X Nad 2 UTM Y Nad 2 UTM Zone:	7: 7:	606175 4852100 17			
<u>36</u>	1 of 1	WNW/178.4	206.9/-2.00	lot 12 con 11 ON	WWIS
Well ID: Construction Primary Wate Sec. Water US Final Well Sta Water Type: Casing Mater Audit No: Tag: Construction Elevation Rel Depth to Bed Well Depth: Overburden/IP Pump Rate: Static Water I Flowing (Y/N) Flow Rate: Clear/Cloudy.	4905 Date: or Use: Indu se: atus: Test ial: iability: rock: Bedrock: Level: b:	5768 strial Hole		Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec: Contractor: Form Version: Owner: Street Name: County: Municipality: Site Info: Lot: Concession: Concession: Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability:	1 4/10/1981 Yes 1413 1 PEEL BRAMPTON CITY (TORONTO GORE) 012 11 CON
Bore Hole Inf Bore Hole ID: DP2BR: Spatial Status Code OB: Code OB Des Open Hole: Cluster Kind: Date Complet Remarks: Elevrc Desc: Location Sou Improvement Improvement Source Revis Supplier Com	ted: 3/24.	20461 rock /1981 e: d :		Elevation: Elevrc: Zone: East83: North83: Org CS: UTMRC: UTMRC Desc: Location Method:	208.466079 17 606015.6 4852126 4 margin of error : 30 m - 100 m topo
<u>Overburden a</u> <u>Materials Inte</u> Formation ID. Layer: Color: General Colo	and Bedrock erval : r:	932051216 2 3 BLUE			

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Mat1: Most Commor Mat2: Other Material Mat3:	n Material: Is:	05 CLAY 66 DENSE			
Other Material	ls: n Denth [.]	18			
Formation En	d Depth:	37			
Formation En	d Depth UOM:	ft			
<u>Overburden a</u> <u>Materials Inter</u>	<u>nd Bedrock</u> rval				
Formation ID:		932051217			
Layer: Color:		3			
General Color	:	GREY			
Mat1:		05			
Most Common	n Material:	CLAY			
Mat2: Other Meteria	101	12 STONES			
Mat3:	15.	73			
Other Materia	ls:	HARD			
Formation Top	p Depth:	37			
Formation En	d Depth:	64 ft			
Formation En	a Depth OOM:	π			
<u>Overburden a</u> Materials Inter	<u>nd Bedrock</u> rval				
Formation ID:		932051215			
Layer:		1			
Color:		6			
General Color	-	BROWN			
Most Commo	n Material	CLAY			
Mat2:	matoman	66			
Other Material	ls:	DENSE			
Mat3:					
Other Material	IS: n Donth:	0			
Formation En	d Depth:	18			
Formation En	d Depth UOM:	ft			
<u>Overburden a</u> <u>Materials Inter</u>	<u>nd Bedrock</u> rval				
Formation ID:		932051219			
Layer:		5			
Color:		2			
General Color Mat1.	•	GKEY 17			
Most Commo	n Material:	SHALE			
Mat2:		74			
Other Material	ls:	LAYERED			
Mat3:	10.				
Coner Material	is: n Denth:	89			
Formation En	d Depth:	122			
Formation En	d Depth UOM:	ft			
	-				

Overburden and Bedrock

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Materials Inte	rval				
Formation ID: Layer: Color: General Color Mat1: Most Commo Mat2: Other Materia Mat3:	r: n Material: ls:	932051218 4 2 GREY 17 SHALE 66 DENSE			
Other Materia Formation To Formation En Formation En	ls: p Depth: d Depth: d Depth UOM:	64 89 ft			
<u>Method of Co</u> <u>Use</u>	nstruction & Well				
Method Cons Method Cons Method Cons Other Method	truction ID: truction Code: truction: I Construction:	2 Rotary (Convent.)			
<u>Pipe Informat</u>	ion				
Pipe ID: Casing No: Comment: Alt Name:		10869031 1			
<u>Construction</u>	Record - Casing				
Casing ID: Layer: Material: Open Hole or Depth From: Depth To: Casing Diame Casing Diame Casing Depth	Material: eter: eter UOM: UOM:	930528763 1 STEEL 73 8 inch ft			
Results of We	ell Yield Testing				
Pump Test ID Pump Set At: Static Level: Final Level At Recommende Pumping Rate Flowing Rate Recommende Levels UOM: Rate UOM: Water State A Bumping Test	: ter Pumping: ed Pump Depth: e: ed Pump Rate: fter Test Code: fter Test:	994905768 11 107 100 2 2 ft GPM 2 CLOUDY 2			
Pumping Tes Pumping Dur Pumping Dur Flowing:	t Method: ation HR: ation MIN:	2 1 30 N			

Мар Кеу	Number Records	of Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Draw Down &	Recovery					
Pump Test D Test Type: Test Duration	etail ID: n:	934261912 15 26				
Test Level:	ом·	20 ft				
Test Level O	<i>OW</i> .	π				
<u>Draw Down &</u>	Recovery					
Pump Test D Test Type:	etail ID:	935046769				
Test Duration	า:	60				
Test Level:	~~~	57				
Test Level U	OM:	π				
Draw Down &	<u>Recovery</u>					
Pump Test D Test Type:	etail ID:	934527652				
Test Duration	า:	30				
Test Level:	~· <i>·</i>	38				
Test Level U	OM:	ft				
Draw Down &	<u>Recovery</u>					
Pump Test D Test Type:	etail ID:	934781756				
Test Duration	า:	45				
Test Level:		48				
Test Level U	ОМ:	ft				
Water Details	i					
Water ID: Laver:		933793780 1				
Kind Code:		4				
Kind:		MINERIAL				
Water Found	Depth:	107				
Water Found	Depth UOM	l: ft				
<u>37</u>	1 of 1	ESE/184.8	205.9/-3.00	Hwy 50 Brampton ON		EHS
Order No: Status:		20161219094 C		Nearest Intersection: Municipality:		
Report Type:		Custom Report		Client Prov/State:	ON	
Report Date:		28-DEC-16		Search Radius (km):	.25	
Date Receive	ed:	19-DEC-16		Х:	-79.673825	
Previous Site	e Name:			Y:	43.811221	
Lot/Building	Size:					
Additional IN	io 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	o:	ON2652900		PO Box No:		
Status:		a .(Country:		
Approval Yea	ars:	01		Choice of Contact:		

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erisinfo.com | Environmental Risk Information Services

Order No: 20190508200

Мар Кеу	Number Records	of	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Contam. Facil MHSW Facility SIC Code: SIC Descriptic	ity: /: on:	3199	OTHER MACHINER	RY	Co Admin: Phone No Admin:	
<u>Detail(s)</u>						
Waste Class: Waste Class L	Desc:		252 WASTE OILS & LU	BRICANTS		
<u>39</u>	1 of 1		WNW/188.6	207.9/-1.00	Cadetta Road Brampton ON	EHS
Order No: Status: Report Type: Report Date: Date Received Previous Site Lot/Building S Additional Info	l: Name: Size: o Ordered:	20120131 C Standard 2/9/2012 1/31/2012	1028 Select Report 4:28:40 PM 2 4:26:54 PM		Nearest Intersection: Municipality: Client Prov/State: Search Radius (km): X: Y:	Brampton ON 0.25 -79.68244 43.81417
<u>40</u>	1 of 1		NW/193.2	208.5/-0.37	lot 12 con 11 ON	WWIS
Well ID:		4905813			Data Entry Status:	
Construction Primary Water Sec. Water Us	Date: r Use: re:	Domestic			Data Src: Date Received: Selected Flag:	1 11/3/1981 Yes
Final Well Star Water Type: Casing Materia Audit No: Tag:	tus: al:	Water Su	pply		Abandonment Rec: Contractor: Form Version: Owner: Street Name:	3413 1
Construction I Elevation (m): Elevation Relia	Method: ability:				County: Municipality: Site Info: Lot:	PEEL BRAMPTON CITY (TORONTO GORE)
Well Depth: Overburden/B Pump Rate: Static Water L Flowing (Y/N): Flow Rate: Clear/Cloudy:	edrock: evel:				Concession: Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability:	11 CON
Bore Hole Info	ormation					
Bore Hole ID: DP2BR: Spatial Status Code OB: Code OB Deso Open Hole: Cluster Kind: Date Complete Remarks: Elevrc Desc: Location Sour Improvement	: c: ed: rce Date: Location S	10320498 0 Overburd 4/28/1981	3 en I		Elevation: Elevrc: Zone: East83: North83: Org CS: UTMRC: UTMRC Desc: Location Method:	208.693344 17 606087.6 4852241 4 margin of error : 30 m - 100 m topo
Improvement Source Revisi	Location N on Comme	lethod: ent:				

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Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Supplier Cor	nment:				
Overburden Materials Int	and Bedrock erval				
Formation IL Layer: Color: General Cold):)r:	932051419 1			
Mat1: Most Commo Mat2: Other Materi Mat3:	on Material: als:	02 TOPSOIL			
Other Materi Formation To Formation E Formation E	als: op Depth: nd Depth: nd Depth UOM:	O 1 ft			
<u>Overburden</u> Materials Int	<u>and Bedrock</u> erval				
Formation IL Layer: Color: General Colo Mat1: Most Commo Mat2: Other Materi Mat3:	o: or: on Material: als:	932051423 5 3 BLUE 05 CLAY			
Other Materi Formation To Formation E Formation E	als: op Depth: nd Depth: nd Depth UOM:	35 62 ft			
<u>Overburden</u> Materials Int	<u>and Bedrock</u> erval				
Formation IE Layer: Color: General Colo Mat1: Most Commo Mat2: Other Materi Mat3:): or: on Material: als:	932051420 2 6 BROWN 05 CLAY			
Other Materi Formation T Formation E Formation E	als: op Depth: nd Depth: nd Depth UOM:	1 20 ft			
Overburden Materials Int	<u>and Bedrock</u> erval				
Formation IL Layer: Color: General Cold):)r:	932051422 4			
Mat1: Most Commo	on Material:	10 COARSE SAND			

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Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Mat2: Other Materia Mat3:	nls:				
Other Materia	nls:				
Formation To	p Depth: Id Depth:	32 35			
Formation En	d Depth UOM:	ft			
	-				
<u>Overburden a</u> Materials Inte	and Bedrock erval				
Formation ID	:	932051424			
Layer:		6			
Color: General Colo	r-				
Mat1:		10			
Most Commo	n Material:	COARSE SAND			
Matz: Other Materia	uls:	91 WATER-BEARING			
Mat3:					
Other Materia	nls: 	<u></u>			
Formation To	op Depth: nd Depth:	64			
Formation Er	d Depth UOM:	ft			
<u>Overburden a</u> <u>Materials Inte</u>	and Bedrock erval				
Formation ID	:	932051421			
Layer:		3			
Color: General Colo	r-	3 BLUE			
Mat1:		05			
Most Commo	n Material:	CLAY			
Mat2: Other Materia	uls.				
Mat3:					
Other Materia	nls:				
Formation 10 Formation Er	p Deptn: nd Depth:	20 32			
Formation Er	d Depth UOM:	ft			
<u>Annular Spac</u> <u>Sealing Reco</u>	:e/Abandonment rd				
Plug ID:		933169922			
Layer:		1			
Plug From: Plug To:		18			
Plug Depth U	ОМ:	ft			
<u>Method of Co</u> <u>Use</u>	nstruction & Well				
Method Cons	truction ID-				
Method Cons	truction Code:	6			
Method Cons	truction:	Boring			
Other Method	Construction:				
<u>Pipe Information Pipe Information Pipe Information Pipe Pipe Pipe Pipe Pipe Pipe Pipe Pipe</u>	tion				
Pipe ID:		10869068			
170	erisinfo.com En	vironmental Risk Info	rmation Service	es	Order No: 20190508200

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Casing No: Comment: Alt Name:		1			
Construction	Record - Casing				
Casing ID:		930528817			
Layer:		1			
Material:		1			
Open Hole or Depth From:	Material:	SIEEL			
Depth To:		52			
Casing Diam	eter:	24			
Casing Diam	eter UOM:	inch			
Casing Dept	n UOM:	ft			
<u>Construction</u>	Record - Casing				
Casing ID:		930528818			
Layer:		2			
Material:	Matarial				
Depth From:	Malerial.	CONCRETE			
Depth To:		64			
Casing Diam	eter:	30			
Casing Diam	eter UOM:	inch			
Casing Depti	п ООМ:	π			
Construction	Record - Screen				
Screen ID:		933359857			
Layer:		1			
Slot:	Do m the	012			
Screen Top L	Depth: Depth:				
Screen Mater	ial:				
Screen Deptl	n UOM:	ft			
Screen Diam	eter UOM:	inch			
Screen Diam	eter:				
<u>Results of W</u>	ell Yield Testing				
Pump Test IL) <u>;</u>	994905813			
Pump Set At:	;	20			
Static Level:	ftor Dumping:	20			
Recommend	ed Pump Denth:	45			
Pumping Rat	e:	3			
Flowing Rate	:				
Recommend	ed Pump Rate:	3			
Levels UOM:		ft			
Kate UUM: Water State	After Test Code:				
Water State	After Test:	CLEAR			
Pumping Tes	t Method:	2			
Pumping Du	ration HR:	4			
Pumping Du	ration MIN:	0			
Flowing:		N			

Draw Down & Recovery

Pump Test Detail ID:

935046791

Map Key	Number Records	of G	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Test Type:						
Test Duration	1:		60 52			
Test Level U	ОМ:		ft			
<u>Draw Down &</u>	Recovery					
Pump Test D Test Type:	etail ID:		934261938			
Test Duration	ı:		15			
Test Level:	<i>-</i>		52			
Test Level U	OM:		ft			
<u>Draw Down &</u>	Recovery					
Pump Test D	etail ID:		934781777			
Test Duration	ı:		45			
Test Level:			52			
Test Level U	ОМ:		ft			
<u>Draw Down &</u>	Recovery					
Pump Test D Test Type:	etail ID:		934527676			
Test Duration	ı:		30			
Test Level:			52			
Test Level U	OM:		ft			
Water Details	<u>8</u>					
Water ID:			933793820			
Layer:			1			
Kind Code:						
Water Found	Depth:		32			
Water Found	Depth UOI	Л:	ft			
Water Details	i					
Water ID-			933793821			
Layer:			2			
Kind Code:			1			
Kind:			FRESH			
Water Found	Depth:	л.	62 ft			
	Depth OOk	<i>n</i> .	n			
<u>41</u>	1 of 1		NW/194.2	208.5 / -0.37	Brampton ON	WWIS
					Drampton ON	
Well ID:	Dete	7166972			Data Entry Status:	
Construction Primary Wate	Date:	Test Hold	2		Data Src: Date Received	8/9/2011
Sec. Water U	se:	100011010			Selected Flag:	Yes
Final Well Sta	atus:	Test Hole	9		Abandonment Rec:	
Water Type:					Contractor:	7215
Casing Mater	rial:	7133674			Form Version:	1
Tag:		A108057			Street Name:	12 CADETTA RD
Construction	Method:				County:	PEEL
Elevation (m)):				Municipality:	BRAMPTON CITY (TORONTO GORE)

Order No: 20190508200

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Elevation Reli Depth to Bedi Well Depth: Overburden/E Pump Rate: Static Water L Flowing (Y/N) Flow Rate: Clear/Cloudy:	iability: rock: Bedrock: _evel: :			Site Info: Lot: Concession: Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability:		
Bore Hole Infe	ormation					
Bore Hole ID: DP2BR:	100354727	78		Elevation: Elevrc:	208.752227	
Spatial Status Code OB:	5.			Zone: East83:	17 606088	
Code OB Des Open Hole:	C:			North83: Org CS:	4852243 UTM83	
Date Complet	ed: 6/17/2011			UTMRC: UTMRC Desc: Location Method:	3 margin of error : 10 - 30 m wwr	
Elevrc Desc:	rce Date:			Loouton method.		
Improvement Improvement Source Revis Supplier Com	Location Source: Location Method: ion Comment: ment:					
<u>Overburden a</u> <u>Materials Inte</u>	nd Bedrock rval					
Formation ID:		1003911568				
Color:	e	6				
General Color	r: E	BROWN				
Matt: Most Commo Mat2:	n Material:	TILL				
Other Materia	ls:					
Mat3: Other Materia	ls [.] [68 DRY				
Formation To	p Depth:	12				
Formation En Formation En	d Depth: d Depth UOM: f	18 ít				
<u>Overburden a</u> <u>Materials Inte</u>	nd Bedrock rval					
Formation ID:		1003911567				
Color:	6	6				
General Color	r: E	BROWN				
Mat1: Most Commo Mat2:	n Material:	28 SAND				
Other Materia	ls:					
Mat3: Other Meteric		68 V90				
Formation To	p Depth: 8	8				
Formation En Formation En	d Depth: d Depth UOM: f	12 't				
173	erisinfo.com Enviro	nmental Risk Info	rmation Service	9S	Order No: 2019	0508200

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Overburden a Materials Inte	nd Bedrock rval					
Formation ID. Layer: Color: General Colo. Mat1: Most Commo Mat2: Other Materia Mat3: Other Materia Formation To Formation En	r: n Material: ls: ls: p Depth: d Depth: d Depth UOM:	1003911566 1 6 BROWN 01 FILL 0 8 ft				
<u>Annular Spac</u> Sealing Reco	e/Abandonment rd					
Plug ID: Layer: Plug From: Plug To: Plug Depth U	ОМ:	1003911576 2 11 1 ft				
<u>Annular Spac</u> Sealing Reco	<u>e/Abandonment</u> r <u>d</u>					
Plug ID: Layer: Plug From: Plug To: Plug Depth U	ОМ:	1003911575 1 18 11 ft				
<u>Annular Spac</u> Sealing Reco	e/Abandonment rd					
Plug ID: Layer: Plug From: Plug To: Plug Depth U	ом:	1003911577 3 1 0 ft				
<u>Method of Co</u> <u>Use</u>	nstruction & Well					
Method Cons Method Cons Method Cons Other Method	truction ID: truction Code: truction: I Construction:	2 Rotary (Convent.)				
Pipe Informat	ion					
Pipe ID: Casing No: Comment: Alt Name:		1003911565 0				
<u>Construction</u>	<u> Record - Casing</u>					

Мар Кеу	Number Records	of S	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Casing ID: Layer: Material: Open Hole or Depth From: Depth To: Casing Diamo Casing Diamo Casing Depth	Material: eter: eter UOM: n UOM:		1003911571 1 5 PLASTIC 13 1 2 inch ft				
<u>Construction</u>	Record - S	<u>creen</u>					
Screen ID: Layer: Slot: Screen Top D Screen End D Screen Mater Screen Depth Screen Diame	Depth: Depth: ial: 1 UOM: eter UOM: eter:		1003911572 1 10 18 13 5 ft inch 2				
Hole Diamete	<u>er</u>						
Hole ID: Diameter: Depth From: Depth To: Hole Depth U Hole Diamete	IOM: er UOM:		1003911569 8 0 18 ft inch				
<u>42</u>	1 of 9		NNW/200.9	209.9 / 1.00	Forest Contractors Ltd 8 Cadetta Road Brampton ON L6P 0X4	d 1	GEN
Generator No Status: Approval Yea Contam. Facilit MHSW Facilit SIC Code: SIC Descripti	o: hrs: ility: ty: ion:	ON43225 2016 No 238190	OTHER FOUNDATI	ION, STRUCTURE	PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin: AND BUILDING EXTERIO	Canada CO_OFFICIAL R CONTRACTORS	
<u>Detail(s)</u>							
Waste Class: Waste Class	Desc:		252 WASTE OILS & LUI	BRICANTS			
<u>42</u>	2 of 9		NNW/200.9	209.9 / 1.00	Forest Contractors Ltd 8 Cadetta Road Brampton ON L6P 0X4	d 4	GEN
Generator No Status: Approval Yea Contam. Faci MHSW Facilit SIC Code: SIC Descripti	o: ars: illity: ty: fon:	ON43225 2014 No 238190	OTHER FOUNDATI	ION, STRUCTURE	PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin: AND BUILDING EXTERIO	Canada CO_OFFICIAL R CONTRACTORS	

<u>Detail(s)</u>

Waste Class Desc: 252 WASTE OLS & LUBRICANTS 42 3 of 9 NNW/200.9 208.9 / 1.00 B Caddita Road Brampton ON LOP OXA Status: Forest Contractors Ltd Contain: Phone No LoP OXA Status: Canada Caddita: Phone No Admin: Canada Canada Cholice of Contactors Contain: Phone No Admin: Canada Canada Contactors Contain: Phone No Admin: Canada Canada Contactor Contain: Phone No Admin: Canada Canada Contain: Contain: Contain: Phone No Admin: Canada Contactor Contain: Contain: Contain: Phone No Admin: Canada Contactor Contain: Cont	Мар Кеу	Number Records	r of s	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
42 3 of 9 NWW200.9 209.9 / 1.00 Forest Contractors Lid Branghon DN L6P 0XA GEN Generator No: Satus: Approval Years: Contain, Facility: MHSW Facility: SIC Description: ON4322559 As of Mar 2019 PD Box No: County: As of Mar 2019 Canada County: Phone No Admin: Canada County: County: Phone No Admin: 42 4 of 9 NNW200.9 209.9 / 1.00 Forest Contractors Lid Branghon DN L6P 0XA GEN 42 4 of 9 NNW200.9 209.9 / 1.00 Forest Contractors Lid Branghon DN L6P 0XA GEN 6 ON4322559 Status: Status: Approval Years: Contain, Facility: Status: Approval Years: Contain, Facility: Status: Status: Approval Years: Contain, Facility: Status:	Waste Class Waste Class	: Desc:		252 WASTE OILS & LU	IBRICANTS			
Generator No:: PO Box No: Canada Approval Years:: Colors of Contact: Colors of Colors of Contact: Colors of Colors of Contact: Colors of Colors	<u>42</u>	3 of 9		NNW/200.9	209.9 / 1.00	Forest Contractors Ltd 8 Cadetta Road Brampton ON L6P 0X4		GEN
Detail(s) ZS2 L Waste Class: ZS2 L 42 4 of 9 NNW200.9 209.9 / 1.00 Forest Contractors Ltd B Cadetta Road Brampton ON L6P 0X4 GEN Cenerator No: ON4322559 ON4322559 Canada Canada Approval Vears: ON4322559 As of Dec 2018 Canada Canada Contant, Facility: As of Dec 2018 Control: Canada Status: As of Dec 2018 Control: Canada MHSW Facility: Waste Crass. 252 L Waste Crass. Canada Veaste Class: 252 L Waste Crass. Canada Choice of Contractors Ltd GEN 42 5 of 9 NNW/200.9 209.9 / 1.00 Forest Contractors Ltd GEN 42 5 of 9 NNW/200.9 209.9 / 1.00 Forest Contractors Ltd GEN 50 Code: Control: Control: Canada Generator No: Confortactors Ltd Generatoro	Generator N Status: Approval Ye Contam. Fac MHSW Facili SIC Code: SIC Descript	o: ars: :ility: ity: tion:	ON43225 Registere As of Mar	59 d 2019		PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin:	Canada	
Waste Class: 252.1 Waste Class Desc: 232.1 42 4 of 9 NNW/200.9 209.9 / 1.00 Forest Contractors Lid 8 Cadetta Road Brampton ON L6P 0X4 GEN Generator No: Contem, Facility: MISW Facility: SIC Description: ON4322559 Registered As of Dec 2018 PO Box No: Country: Contem, Facility: MISW Facility: Maste Class: Canada Contem, Facility: Waste Class: Canada Country: Country: SIC Description: Detail(5) Waste Class: 252.1 Waste crankcase oils and lubricants GEN 42 5 of 9 NNW/200.9 209.9 / 1.00 Forest Contractors Lid 8 Cadetta Road Brampton ON L6P 0X4 GEN 42 5 of 9 NNW/200.9 209.9 / 1.00 Forest Contractors Lid 8 Cadetta Road Brampton ON L6P 0X4 GEN 5 014322559 PO Box No: Country: Side class 2 Canada Colories of Contractors Lid 8 Cadetta Road Brampton ON L6P 0X4 GEN 5 2015 Country: No Canada Colories of Contractors Lid 8 Cadetta Road Brampton ON L6P 0X4 GEN 5 2015 V0 Scatetta Road Brampton ON L6P 0X4 GEN 5 2015 Country: No Canada Colories of Contractors Lid 8 Cadetta Road Brampton ON Genetatic Co_OFFICIAL Co 2 Admin: No Co 2	<u>Detail(s)</u>							
42 4 of 9 NNW200.9 209.9 / 1.00 Forest Contractors Ltd 8 Gadetta Road Brampton ON L6P 0X4 GEN Generator No: Status: Approval Vears: Contam, Facility: MtSW Facility: StC Code: StC Description: ON4322559 Registered As of Dec 2018 Po Box No: Country: Contam: Phone No Admin: Canada Contam: Phone No Admin: Canada Contam: Country: Country: StC Doscription: Detail(s) Waste Class: StC Description: 252 L Waste Class Desc: 252 L Waste class Desc: GEN 42 5 of 9 NNW200.9 209.9 / 1.00 Forest Contractors Ltd 8 Gadetta Road Brampton ON L6P 0X4 GEN 42 5 of 9 NNW200.9 209.9 / 1.00 Forest Contractors Ltd 8 Gadetta Road Brampton ON L6P 0X4 GEN 43 5 of 9 NNW200.9 209.9 / 1.00 Forest Contractors Ltd 8 Gadetta Road Brampton ON L6P 0X4 GEN 44 5 of 9 NNW200.9 209.9 / 1.00 Forest Contractors Ltd 8 Cadetta Road Brampton ON L6P 0X4 Gen 45 5 of 9 NNW200.9 209.9 / 1.00 Forest Contractors Col Country: Contam: Contam: Contam: Contam: Contam: Contam: Contam: StC Code: StC Description: OTHER FOUNDATION, STRUCTURE AND BUILDING EXTERIOR CONTRACTORS GeN Detail(s) Waste Class Desc: 252 Waste Class Desc: 252 Waste Class Contractors L	Waste Class Waste Class	: Desc:		252 L Waste crankcase o	ils and lubricants			
Generator No: Status: Approval Years: Contam. Facility: MHSW Facility: SIC Code: SIC Description: ON4322559 Registered As of Dec 2018 PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin: Canada Detail(s) Waste Class: SIC Description: 252 L Waste crankcase oils and lubricants Centry: Country: SIC Description: Canada 42 5 of 9 NNW/200.9 209.9 / 1.00 Forest Contractors Ltd 8 Cadetta Road Brampton ON L6P 0X4 GEN 6enerator No: SIC Description: ON4322559 PO Box No: Country: SIC Code: Situtus: Approval Years: SIC Code: SIC Description: ON4322559 PO Box No: Country: Country: No Canada Country: Country: SIC Code: SIC Description: Canada Country: No Canada Country: Country: No Country: Country: No Canada Country: Country: No Country: Country: No Canada Country: Country: No Country: Country: No Country: Country: No Country: Country: No Country: Country: No Country: Country: No Country: Country: No Country: Country: No Country: Country: No Country: Country: No Country: Coun	<u>42</u>	4 of 9		NNW/200.9	209.9 / 1.00	Forest Contractors Ltd 8 Cadetta Road Brampton ON L6P 0X4		GEN
Detail(s) 252 L 252 L Waste Class: 252 L Waste crankcase oils and lubricants 42 5 of 9 NNW200.9 209.9 / 1.00 Forest Contractors Ltd 8 Cadetta Road Brampton ON L6P 0X4 GEN 6enerator No: Status: Approval Years: Contant, Contant, Contat, Contant, Contant, Contant, Contant, Con	Generator N Status: Approval Ye Contam. Fac MHSW Facili SIC Code: SIC Descript	o: ars: :ility: ity: tion:	ON43225 Registere As of Dec	59 d 2018		PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin:	Canada	
Waste Class: 252 L Waste Class Desc: 252 L 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 Approval Years: 2015 Contram, Facility: No No Phone No Admin: SIC Code: 238190 SIC Description: OTHER FOUNDATION, STRUCTURE AND BUILDING EXTERIOR CONTRACTORS Detail(s) Waste Class: Waste Class: 252 Berampton ON S Cadetta Road<	<u>Detail(s)</u>							
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: Country: Canada Approval Years: 2015 Choice of Contact: CO_OFFICIAL Contam, Facility: No Phone No Admin: Co_OOFFICIAL MHSW Facility: No Phone No Admin: Sic Code: Sic Code: 238190 OTHER FOUNDATION, STRUCTURE AND BUILDING EXTERIOR CONTRACTORS Detail(s) WASTE Class: 252 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: GEN	Waste Class Waste Class	: Desc:		252 L Waste crankcase o	ils and lubricants			
Generator No: ON4322559 PO Box No: Status: Country: Canada Approval Years: 2015 Choice of Contact: CO_OFFICIAL Contam. Facility: No Co Admin: Phone No Admin: MHSW Facility: No Phone No Admin: StC Code: SIC Code: 238190 OTHER FOUNDATION, STRUCTURE AND BUILDING EXTERIOR CONTRACTORS Detail(s) Waste Class: 252 Waste Class Desc: WASTE OILS & LUBRICANTS 42 6 of 9 NNW/200.9 209.9 / 1.00 Forest Contractors Ltd & Cadetta Road Brampton ON GEN Generator No: ON4322559 PO Box No: Other Contractors Ltd Other Contractors Ltd Other Contractors Ltd	<u>42</u>	5 of 9		NNW/200.9	209.9 / 1.00	Forest Contractors Ltd 8 Cadetta Road Brampton ON L6P 0X4		GEN
Side Code: 250100 Side Code: OTHER FOUNDATION, STRUCTURE AND BUILDING EXTERIOR CONTRACTORS Detail(s) Waste Class: 252 Waste Class Desc: WASTE OILS & LUBRICANTS 42 6 of 9 NNW/200.9 209.9 / 1.00 Forest Contractors Ltd & Cadetta Road Brampton ON GEN Generator No: ON4322559 PO Box No:	Generator N Status: Approval Ye Contam. Fac MHSW Facili SIC Code:	o: ars: :ility: ity:	ON43225 2015 No 238190	59		PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin:	Canada CO_OFFICIAL	
Detail(s) Waste Class: 252 WASTE OILS & LUBRICANTS 42 6 of 9 NNW/200.9 209.9 / 1.00 Forest Contractors Ltd 8 Cadetta Road Brampton ON GEN Generator №: ON4322559 PO Box No: O Lo NL contractors Contract	SIC Descript	tion:	230130	OTHER FOUNDAT	TION, STRUCTUR	E AND BUILDING EXTERIOR		RS
Waste Class: 252 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: OLIN NICCONDUCTION	<u>Detail(s)</u>							
42 6 of 9 NNW/200.9 209.9 / 1.00 Forest Contractors Ltd GEN 8 Cadetta Road Brampton ON ON4322559 PO Box No: GEN	Waste Class Waste Class	: Desc:		252 WASTE OILS & LU	IBRICANTS			
Generator No: ON4322559 PO Box No:	<u>42</u>	6 of 9		NNW/200.9	209.9 / 1.00	Forest Contractors Ltd 8 Cadetta Road Brampton ON		GEN
originfo com l Environmental Disk Information Occident	Generator N	o:	ON43225	59		PO Box No:		
erisinto.com Environmental Risk Information Services Order No: 20190508200	176	erisinfo.co	om Enviro	onmental Risk Info	ormation Service	95		Order No: 20190508200

Map Key	Number of Records		Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Status: Approval Years Contam. Facilit MHSW Facility:	s: 20 ty:	12			Country: Choice of Contact: Co Admin: Phone No Admin:		
SIC Code: SIC Descriptior	23) n:	8190	Other Foundation St	ructure and Buildi	ng Exterior Contractors		
<u>42</u> 7	' of 9		NNW/200.9	209.9 / 1.00	Forest Contractors Li 8 Cadetta Road Brampton ON	ta	GEN
Generator No: Status:	ON	1432255	59		PO Box No: Country:		
Approval Years Contam. Facilit	s: 20 ty:	13			Choice of Contact: Co Admin:		
MHSW Facility: SIC Code:	23	8190			Phone No Admin:		
SIC Descriptior	n:	(OTHER FOUNDATI	ON, STRUCTURE	AND BUILDING EXTERIO	DR CONTRACTORS	
<u>Detail(s)</u>							
Waste Class:			252 WASTE OILS & LUE	BRICANTS			
	-30.						
<u>42</u> 8	8 of 9		NNW/200.9	209.9 / 1.00	8 Cadetta Road, Bran ON	npton	PINC
Incident ID: Incident No:	27 61	74542 8004			Health Impact: Environment Impact:	No No	
Type:	FS	S-Pipelin	e Incident		Property Damage:	Yes	
Status Code: Fuel Occurrend	е <i>Тр:</i> Рір	beline D	trike		Service Interupt: Enforce Policy:	Yes	
Fuel Type: Tank Status:	Na RC	atural Ga C Establi	as ished		Public Relation: Pipeline System:	No	
Task No:	33	94400			Depth:		
Spills Action Control Method Details	entre: 85 : E-i	78-8J65 mail	SF		Pipe Material: PSIG:	Plastic 60	
Fuel Category: Date of Occurre	Na e nce: 6/2	atural Ga 25/2011	as 0:00		Attribute Category: Requaltor Location:	FS-Perform P-line Inc Invest Outside	
Occurrence Sta	art 20	11/06/29	9				
Operation Type):	(Construction Site (in	cluding excavatio	n)		
Regulator Type:):	:	Service Regulator (u	eline ip to 60 psi intake)		
Summary: Reported Bv:		8	8 Cadetta Road, Bra Bill Reid - Enbridge	mpton - 2" Pipelir	ie Hit		
Affiliation:	~~.	l	Industry Stakeholde	r (Licensee/Regist	ration/Certificate Holder, Fa	acility Owner, etc.)	
Damage Reaso Notes:	sc: n:	1	Excavation practices	s not sufficient			
<u>42</u> 9) of 9		NNW/200.9	209.9 / 1.00	Enbridge Gas Distrib 8 Cadetta Road <unc Brampton ON L6P 0X</unc 	ution Inc. DFFICIAL> 4	SPL
Ref No:	85	78-8J6S	SSF		Discharger Report:		
Site No: Incident Dt:	6/2	25/2011			Material Group: Health/Env Conseq:		
Year: Incident Cause	: Dis	scharge	or Emission to Air		Client Type: Sector Type:	Pipeline	
Incident Event: Contaminant C	ode: 35				Agency Involved: Nearest Watercourse:		

ds Distance (m)	(m)	Site		DB
NATURAL GAS (METHANE)		Site Address: Site District Office: Site Postal Code: Site Region:		
Confirmed Air Pollution		Site Municipality: Site Lot: Site Conc: Northing:	Brampton	
Not MOE mandate 6/25/2011		Easting: Site Geo Ref Accu: Site Map Datum:		
6/30/2011 Negligence (Apparent) - Caus diligence	ed by lack of	SAC Action Class: Source Type:	TSSA - Fuel Safety Branch	
8 Cadetta Road <ui TSSA-FSB: 2" plast 0 other - see incider</ui 	NOFFICIAL> tic strike, made sa nt description	afe		
NNW/225.7	209.9 / 1.00	Onsite Ready-Mix (2 10 Cadetta Road Bra Municipality of Peel ON	2009) Corp. ampton, Regional CITY OF BRAMPTON	EBR
011-5316 1567-8LQMFC Instrument Decision 803923189 December 28, 2012 December 06, 2011	2000) Com	Year: Act 1: Act 2: Comment Period: Section: Site Location Map:	2011	
Onsite Ready-Mix (2 (EPA Part II.1-air) - 1250 Bay Street, 3rd	2009) Corp. Environmental C d Floor Street, Tc	ompliance Approval (projec pronto Ontario, Canada M5F	t type: air) R 2B1	
	ds Distance (m) NATURAL GAS (METHANE) Confirmed Air Pollution Not MOE mandate 6/25/2011 6/30/2011 Negligence (Apparent) - Caus diligence 8 Cadetta Road <u TSSA-FSB: 2" plast 0 other - see incider NNW/225.7 011-5316 1567-8LQMFC Instrument Decision 803923189 December 28, 2012 December 06, 2011 Onsite Ready-Mix ((EPA Part II.1-air) - 1250 Bay Street, 3r</u 	ds Distance (m) (m) NATURAL GAS (METHANE) Confirmed Air Pollution Not MOE mandate 6/25/2011 6/30/2011 Negligence (Apparent) - Caused by lack of diligence 8 Cadetta Road <unofficial> TSSA-FSB: 2" plastic strike, made sa 0 other - see incident description 011-5316 1567-8LQMFC Instrument Decision 803923189 December 28, 2012 December 06, 2011 Onsite Ready-Mix (2009) Corp. (EPA Part II.1-air) - Environmental C 1250 Bay Street, 3rd Floor Street, To</unofficial>	ds Distance (m) (m) NATURAL GAS (METHANE) Site Address: Site District Office: Site Postal Code: Site Region: Site Municipality: Site Conc: Northing: Not MOE mandate Site Address: Site Postal Code: Site Region: Site Code: Site Region: Site Conc: Northing: Easting: Site Geo Ref Accu: 6/25/2011 Not MOE mandate Easting: Site Geo Ref Accu: Site Geo Ref Accu: Site Map Datum: SAC Action Class: Source Type: 6/30/2011 Site Map Datum: SAC Action Class: Source Type: Negligence (Apparent) - Caused by lack of diligence Site Map Datum: SAC Action Class: Source Type: TSSA-FSB: 2" plastic strike, made safe 0 other - see incident description Source Type: NNW/225.7 209.9 / 1.00 Onsite Ready-Mix (2 10 Cadetta Road Bra Municipality of Peel ON 011-5316 Year: 1567-8LQMFC Act 1: Instrument Decision Site Location Map: 0ecember 28, 2012 Section: Site Location Map: December 28, 2012 Section: Site Location Map: Onsite Ready-Mix (2009) Corp. (EPA Part II.1-air) - Environmental Compliance Approval (project 1250 Bay Street, 3rd Floor Street, Toronto Ontario, Canada M51	ds Distance (m) (m) NATURAL GAS (METHANE) Site Address: Site District Office: Site Region: Site Postal Code: Site Region: Site Cone: Not MOE mandate Brampton Air Pollution Site Cone: Notrhing: Site Goo Ref Accu: 6/25/2011 Brampton 6/25/2011 Site Goo Ref Accu: Site Goo Ref Accu: 6/25/2011 Site Goo Ref Accu: Site Goo Ref Accu: Site Goo Ref Accu: Site Goo Ref Accu: Site Map Datum: 6/30/2011 TSSA - Fuel Safety Branch Negligence (Apparent) - Caused by lack of diligence Sac Action Class: Source Type: TSSA - Fuel Safety Branch Source Type: 0 other - see incident description Source Type: 10 Cadetta Road Brampton, Regional Municipality of Peel CITY OF BRAMPTON ON 011-5316 Year: 2011 1567-8LQMFC Act 1: Instrument Decision Act 2: Soetion: December 28, 2012 December 28, 2012 Section: Site Location Map: Onsite Ready-Mix (2009) Corp. Onsite Ready-Mix (2009) Corp. (EPA Part II. 1-air) - Environmental Compliance Approval (project type: air) 1250 Bay Street, 3rd Floor Street, Toronto Ontario, Canada M5R 2B1

Site Location Details:

10 Cadetta Road Brampton, Regional Municipality of Peel CITY OF BRAMPTON

<u>43</u> 2 of 21	NNW/225.7	209.9 / 1.00	Bolton Ready Mix 10 Cadetta Rd Brampton ON M5	R 2B1	ECA
Approval No: Approval Date: Status: Record Type: Link Source: SWP Area Name: Approval Type: Project Type: Address: Full Address: Full PDF Link:	3514-8XERYE 2013-11-28 Approved ECA IDS Toronto ECA-AIR AIR 10 Cadetta Rd	senvironment ene	MOE District: City: Longitude: Latitude: Geometry X: Geometry Y:	Halton-Peel -79.68074 43.81644 055-94XPWY-14.pdf	

Map Key Numb Recor		lumber of Direction/ Elev/Diff Records Distance (m) (m)		Site	DB
<u>43</u>	3 of 21	NNW/225.7	209.9 / 1.00	752054 Ontario Limited 10 Cadetta Rd Brampton ON M5R 2B	d ECA
Approval No. Approval Dat Status: Record Type Link Source: SWP Area Na Approval Typ Project Type Address: Full Address Full PDF Link	: te: ame: pe: : : k:	3514-8XERYE 2012-12-20 Amended ECA IDS Toronto ECA-AIR AIR 10 Cadetta R https://www.a	td accessenvironment.e	MOE District: City: Longitude: Latitude: Geometry X: Geometry Y: ne.gov.on.ca/instruments/1567-8	Halton-Peel -79.68074 43.81644 BLQMFC-14.pdf
<u>43</u>	4 of 21	NNW/225.7	209.9 / 1.00	Bolton Ready Mix 10 Cadetta Road Brampton City, Regior L6P 0X4 ON	ECA nal Municipality of Peel
Approval No. Approval Dat Status: Record Type Link Source: SWP Area Na	: te: :	3514-8XERYE 28-NOV-13 Approved		MOE District: City: Longitude: Latitude: Geometry X: Geometry Y:	Brampton City, Regional Municipality of Peel L6P 0X4
Approval Type Project Type Address: Full Address Full PDF Linl	k:	Air/Noise 10 Cadetta F	load		
<u>43</u>	5 of 21	NNW/225.7	209.9 / 1.00	752054 Ontario Limite 10 Cadetta Rd Brampton ON L6P 0X4	d ECA
Approval No. Approval Dat Status: Record Type Link Source: SWP Area Na	: te: : ame:	3514-8XERYE 12/20/2012 Approved		MOE District: City: Longitude: Latitude: Geometry X: Geometry Y:	Brampton
Approval Typ Project Type Address: Full Address Full PDF Linl	oe: : : k:	Air/Noise			
<u>43</u>	6 of 21	NNW/225.7	209.9 / 1.00	Onsite Ready-Mix Inc 10 Cadetta Road Brampton ON L6P 0X4	GEN
Generator No Status: Approval Yea Contam. Fac	o: ars: ility:	ON7891244 2009		PO Box No: Country: Choice of Contact: Co Admin:	

erisinfo.com | Environmental Risk Information Services

Order No: 20190508200

Мар Кеу	Numbe Record	r of s	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
MHSW Facilit SIC Code: SIC Descripti	y: on:	327330	Concrete Pipe Bric	k and Block Manuf	Phone No Admin:	
<u>Detail(s)</u>						
Waste Class: Waste Class	Desc:		146 OTHER SPECIFIE	D INORGANICS		
<u>43</u>	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		ON0987	600		PO Box No:	
Approval Yea Contam. Faci	rs: lity:	90,99,00	0,01		Choice of Contact: Co Admin:	
MHSW Facilit SIC Code: SIC Description	y: on:	3231	MOTOR VEHICLE	IND.	Phone No Admin:	
<u>Detail(s)</u>						
Waste Class: Waste Class I	Desc:		213 PETROLEUM DIS	TILLATES		
<u>43</u>	8 of 21		NNW/225.7	209.9 / 1.00	Onsite Ready-Mix Inc 10 Cadetta Road Brampton ON L6P 0X4	GEN
Generator No	:	ON7891	244		PO Box No:	
Approval Yea	rs:	2011			Country: Choice of Contact:	
MHSW Facilit	lity: 'y:	007000			Co Admin: Phone No Admin:	
SIC Code: SIC Description	on:	327330	Concrete Pipe Bric	k and Block Manuf	acturing	
<u>Detail(s)</u>						
Waste Class: Waste Class	Desc:		252 WASTE OILS & LU	JBRICANTS		
Waste Class: Waste Class I	Desc:		146 OTHER SPECIFIE	D INORGANICS		
<u>43</u>	9 of 21		NNW/225.7	209.9 / 1.00	ALTA CRANES LIMITED 10 CADETTA ROAD, R.R. #9 BRAMPTON ON L6T 328	GEN
Generator No		ON0987	600		PO Box No:	
Status: Approval Yea Contam. Faci	ns: lity:	88,89			<i>Country: Choice of Contact: Co Admin:</i>	
MHSW Facilit SIC Code: SIC Description	y: on:	3231	MOTOR VEHICLE	IND.	Phone No Admin:	

<u>Detail(s)</u>

Map Key	Number Records	of S	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Waste Class: Waste Class	Desc:		213 PETROLEUM DIS	TILLATES			
<u>43</u>	10 of 21		NNW/225.7	209.9 / 1.00	Onsite Ready-Mix Inc 10 Cadetta Road Brampton ON L6P 0X4		GEN
Generator No Status: Approval Yea Contam. Fac. MHSW Facili SIC Code: SIC Descripto	o: ars: ility: ty: ion:	ON78912 2010 327330	244 Concrete Pipe Bric	k and Block Manuf	PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin: acturing		
<u>Detail(s)</u> Waste Class:			252				
Waste Class	Desc:		WASTE OILS & LU	JBRICANTS			
Waste Class: Waste Class	Desc:		146 OTHER SPECIFIE	D INORGANICS			
<u>43</u>	11 of 21		NNW/225.7	209.9 / 1.00	ALTA CRANES LIMITE 10 CADETTA ROAD, R BRAMPTON ON L6T 32	ED 02-216 .R. #9 Z8	GEN
Generator No: ON098 Status: Approval Years: 92,93,1		ON09876 92,93,94	600 ,95,96,97,98		PO Box No: Country: Choice of Contact:		
Contam. Fac. MHSW Facili SIC Code: SIC Descripti	ility: ty: ion:	9911	IND. MACH. RENT	TAL.	Co Admin: Phone No Admin:		
<u>Detail(s)</u>							
Waste Class: Waste Class	Desc:		213 PETROLEUM DIS	TILLATES			
<u>43</u>	12 of 21		NNW/225.7	209.9 / 1.00	Magcrete Logistics 10 Cadetta Road Brampton ON L6P 0X4		GEN
Generator No	o:	ON88419	934		PO Box No:	Canada	
Approval Yea Contam. Facili MHSW Facili	ars: ility: ty:	2015 No No			Country: Choice of Contact: Co Admin: Phone No Admin:	CO_OFFICIAL	
SIC Code: SIC Descripti	ion:	404110	GENERAL FREIG	HT TRUCKING, LC	OCAL		
<u>Detail(s)</u>							
Waste Class: Waste Class	Desc:		252 WASTE OILS & LU	JBRICANTS			
<u>43</u>	13 of 21		NNW/225.7	209.9 / 1.00	Magcrete Logistics 10 Cadetta Road Brampton ON L6P 0X4		GEN

Мар Кеу	Number Records	of	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Generator No. Status: Approval Year Contam. Facil MHSW Facility SIC Code: SIC Descriptio	: rs: iity: y: on:	ON884193 2014 No 484110	4 GENERAL FREIGH	T TRUCKING, LOO	PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin: CAL	Canada CO_OFFICIAL	
<u>Detail(s)</u>							
Waste Class: Waste Class Desc:		22	252 WASTE OILS & LUBRICANTS				
<u>43</u>	14 of 21		NNW/225.7	209.9 / 1.00	ADVANCED FENCE AN 10 CADETTA ROAD BRAMPTON ON L6T 32	ND WIRE Z8	GEN
Generator No.	:	ON197450	0		PO Box No:		
Status: Approval Year Contam, Facil	rs: litv:	96,97,98,9	9,00,01		Country: Choice of Contact: Co Admin		
MHSW Facility SIC Code: SIC Descriptio	y: on:	3059 (OTHER WIRE PRO	D.	Phone No Admin:		
<u>Detail(s)</u>							
Waste Class: Waste Class L	Desc:	2 F	213 PETROLEUM DIST	ILLATES			
Waste Class: Waste Class L	Desc:	2 E	253 EMULSIFIED OILS				
<u>43</u>	15 of 21		NNW/225.7	209.9 / 1.00	Magcrete Logistics 10 Cadetta Road Brampton ON L6P 0X4	ı	GEN
Generator No. Status: Approval Year Contam. Facil MHSW Facility SIC Code: SIC Descriptio	: rs: iity: y: on:	ON884193 Registered As of Dec 2	4 2017		PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin:	Canada	
<u>Detail(s)</u>							
Waste Class: Waste Class Desc:		2	252 L Waste crankcase oils and lubricants				
<u>43</u>	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:	Canada	
Status: Approval Year Contam. Facil MHSW Facility SIC Code:	rs: ity: γ:	2016 No 484110			<i>Country: Choice of Contact: Co Admin: Phone No Admin:</i>	Canada CO_OFFICIAL	

Order No: 20190508200

Мар Кеу	Number of Records		Direction/ Distance (m)	Elev/Diff (m)	Site	DB
SIC Description	on:		GENERAL FREIGH	IT TRUCKING, LC	OCAL	
<u>Detail(s)</u>						
Waste Class: Waste Class	Desc:		252 WASTE OILS & LU	BRICANTS		
<u>43</u>	17 of 21		NNW/225.7	209.9 / 1.00	1105976 ONTARIO LIMITED 10 CADETTA ROAD BRAMPTON ON L6T 3Z8	GEN
Generator No Status:	e:	ON1974	500		PO Box No: Countrv:	
Approval Years: 95 Contam. Facility: MHSW Facility:		95			Choice of Contact: Co Admin: Phone No Admin:	
SIC Code: SIC Description	on:	3059	OTHER WIRE PRO	DD.		
<u>Detail(s)</u>						
Waste Class: Waste Class	Desc:		253 EMULSIFIED OILS			
<u>43</u>	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: SIC/NAICS Co	ode:		Other Fabricated W 332619	ire Product Manuf	acturing	
Description: SIC/NAICS Co	ode:		Other Specialty-Line 416390	e Building Supplie	s Wholesaler-Distributors	
Description: SIC/NAICS Co	ode:		Other Ornamental a 332329	and Architectural M	letal Product Manufacturing	
<u>43</u>	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: SIC/NAICS Co	ode:		Other Ornamental a 332329	and Architectural M	letal Products Manufacturing	
Description: SIC/NAICS Co	ode:		Other Fabricated W 332619	ire Product Manuf	acturing	
Description: SIC/NAICS Co	ode:		Other Specialty-Line 416390	e Building Supplie	s Wholesaler-Distributors	

Мар Кеу	Numbei Record	r of Dire s Dis	ection/ tance (m)	Elev/Diff (m)	Site		DB
<u>43</u>	20 of 21	NNW	/225.7	209.9 / 1.00	Acculink Fence And V 10 Cadetta Rd Brampton ON L6T 3Zd	Vire 8	SCT
Established Plant Size (f Employmen	: f ²): t:	25					
<u>Details</u> Description: SIC/NAICS (: Code:	Other (332325	Ornamental a	and Architectural N	letal Products Manufacturing	g	
Description: SIC/NAICS (: Code:	Other I 332619	Fabricated W	ire Product Manuf	acturing		
Description: SIC/NAICS (: Code:	Other \$ 416390	Specialty-Lin)	e Building Supplie	s Wholesaler-Distributors		
<u>43</u>	21 of 21	NNW	/225.7	209.9 / 1.00	YORK FENCE COMPA 10 Cadetta Rd Brampton ON L6T 3Zd	ANY LTD. 8	SCT
Established	:	1963					
Plant Size (f	t²):	0					
Employmen	t:	8					
<u>Details</u> Description: SIC/NAICS (: Code:	Other (33232	Ornamental a	and Architectural N	letal Products Manufacturing	3	
<u>44</u>	1 of 6	NW/2	27.0	208.6 / -0.23	GREENSTAR CONST 12 CADETTA RD UNI BRAMPTON ON L6P0	RUCTION T 8 IX4	GEN
Generator N	lo:	ON3466416			PO Box No:		
Status:		0010			Country:	Canada	
Approval Ye Contam, Fac	ears: cility:	2016 No			Choice of Contact: Co Admin:	CO_OFFICIAL Tina Cerrone	
MHSW Facil	lity:	No			Phone No Admin:	905-794-0624 Ext.222	
SIC Code: SIC Descrip	tion:	236110, 236210 RESID	ENTIAL BUI	LDING CONSTRU	ICTION, INDUSTRIAL BUIL	DING AND STRUCTURE CONST	RUCTION
<u>Detail(s)</u>							
Waste Class: Waste Class Desc:		252 WAST	E OILS & LU	BRICANTS			
<u>44</u>	2 of 6	NW/2	27.0	208.6 / -0.23	Terrapave Holdings Ir 12 Cadetta Rd Unit 1 Brampton ON L6P 0X	1C 4	GEN
Generator N Status: Approval Ye Contam. Fac MHSW Facil	lo: ears: cility: lity:	ON2752676 Registered As of Dec 2018			PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin:	Canada	
Мар Кеу	Number Records	of Dire Dist	ction/ ance (m)	Elev/Diff (m)	Site		DB
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SIC Code: SIC Descripti	on:						
<u>Detail(s)</u>							
Waste Class: Waste Class	Desc:	252 L Waste o	crankcase oi	s and lubricants			
<u>44</u>	3 of 6	NW/2:	27.0	208.6 / -0.23	Terrapave Holdings In 12 Cadetta Rd Unit 1 Brampton ON L6P 0X4	с 1	GEN
Generator No Status: Approval Yea Contam. Faci MHSW Facilit SIC Code: SIC Descripti	o: nrs: ility: iy: on:	ON2752676 Registered As of Mar 2019			PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin:	Canada	
<u>Detail(s)</u>							
Waste Class: Waste Class	Desc:	252 L Waste o	crankcase oi	ls and lubricants			
<u>44</u>	4 of 6	NW/2:	27.0	208.6 / -0.23	GREENSTAR CONSTR 12 CADETTA RD UNIT BRAMPTON ON L6P0)	RUCTION 8 K4	GEN
Generator No Status: Approval Yea Contam. Faci MHSW Facilit SIC Code: SIC Descripti	o: nrs: ility: ty: on:	ON3466416 Registered As of Dec 2018			PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin:	Canada	
<u>Detail(s)</u>							
Waste Class: Waste Class	Desc:	252 L Waste o	crankcase oi	s and lubricants			
<u>44</u>	5 of 6	NW/22	27.0	208.6 / -0.23	GREENSTAR CONSTR 12 CADETTA RD UNIT BRAMPTON ON L6P0)	RUCTION 8 K4	GEN
Generator No Status: Approval Yea Contam. Faci MHSW Facilit SIC Code: SIC Descripti	o: Irs: Ility: ty: Yon:	ON3466416 Registered As of Mar 2019			PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin:	Canada	
<u>Detail(s)</u>							
Waste Class: Waste Class	Desc:	252 L Waste o	crankcase oi	s and lubricants			

Map Key Number of Records		r of Direction/ s Distance (m)		Elev/Diff (m)	Site		DB	
<u>44</u>	6 of 6		NW/227.0	208.6 / -0.23	GREENSTAR CONST 12 CADETTA RD UNIT BRAMPTON ON L6P02	RUCTION 8 X4	GEN	
Generator No Status:	o:	ON34664	416		PO Box No: Country:	Canada		
Approval Yea Contam. Fac MHSW Facili SIC Code: SIC Descript	ars: ility: ty: ion:	2015 No No 236110, 1	236210 RESIDENTIAL BUI	LDING CONSTRU	Choice of Contact: Co Admin: Phone No Admin: JCTION, INDUSTRIAL BUILD	CO_OFFICIAL Tina Cerrone 905-794-0624 Ext.222 DING AND STRUCTURE CON	ISTRUCTION	
<u>Detail(s)</u>								
Waste Class. Waste Class	Desc:		252 WASTE OILS & LU	BRICANTS				
<u>45</u>	1 of 1		NW/229.4	208.5 / -0.33	Cedar Mills Welding 12 Cadetta Rd Suite 4 Brampton ON L6P 0X4	1	SCT	
Established: Plant Size (ft Employment	²): :		1988					
<u>Details</u> Description: SIC/NAICS C	ode:		Metal Tank (Heavy 332420	Gauge) Manufact	uring			
Description: SIC/NAICS C	ode:		All Other Miscellane 332999	eous Fabricated M	letal Product Manufacturing			
<u>46</u>	1 of 3		WNW/235.0	207.9/-1.00	TIME AND PRECISION 14 CADETTA ROAD BRAMPTON ON L6P 0	I CO. LTD. X4	GEN	
Generator No) :	ON17177	700		PO Box No: Country:			
Approval Yea	ars: ilitv	05			Choice of Contact:			
MHSW Facili SIC Code: SIC Descript	ty: ion:	332710	Machine Shops		Phone No Admin:			
<u>Detail(s)</u>								
Waste Class. Waste Class	Desc:		252 WASTE OILS & LU	BRICANTS				
Waste Class. Waste Class	Desc:		253 EMULSIFIED OILS					
<u>46</u>	2 of 3		WNW/235.0	207.9/-1.00	TMT Freight Systems 14 Caldetta Road Brampton ON L6P 0X4	1	GEN	
Generator No Status: Approval Yea Contam. Fac	o: ars: ility:	ON67953 Registere As of Ma	398 ed r 2019		PO Box No: Country: Choice of Contact: Co Admin:	Canada		

Мар Кеу	Numbei Record	r of s	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
MHSW Facilit SIC Code: SIC Descriptio	y: on:				Phone No Admin:	
<u>Detail(s)</u>						
Waste Class: Waste Class I	Desc:		252 L Waste crankcase o	ils and lubricants		
<u>46</u>	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	:	ON1717	700		PO Box No:	
Approval Yea Contam. Facil MHSW Facilit	rs: lity: v:	93,94,95	i,96,97,98		Country: Choice of Contact: Co Admin: Phone No Admin:	
SIC Code: SIC Description	on:	6599	OTHER RETAIL ST	TORES		
<u>Detail(s)</u>						
Waste Class: Waste Class I	Desc:		252 WASTE OILS & LU	BRICANTS		
<u>47</u>	1 of 3		NW/248.0	207.9/-1.00	14 CADETTA ROAD BRAMPTON ON L6P 0X4	HINC
External File I Fuel Occurrer Date of Occur Fuel Type Inv Status Desc: Job Type Des Oper. Type In Service Interr Property Dam Fuel Life Cycl Root Cause: Reported Det Fuel Category Occurrence T Affiliation: County Name Approx. Quan Nearby body Enter Drainag Approx. Quan Environmenta	Num: nce Type: rrence: olved: volved: uptions: hage: le Stage: ails: ': ype: t. Rel: of water: e Syst.: ht. Unit: al Impact:		FS INC 0711-06942 Pipeline Strike 10/27/2007 Natural Gas Completed - Causa Incident/Near-Miss Construction Site (p Yes No Transmission, Distr Root Cause: Equipt Management:No Gaseous Fuel Incident Industry Stakeholde Peel	2 I Analysis(End) Occurrence (FS) bipeline strike) ibution and Transp ment/Material/Con Human Factors:Ye er (Licensee/Regis	portation nponent:No Procedures:No Maintenance:No De es tration/Certificate Holder, Facility Owner, etc.)	sign:No Training:No
<u>47</u>	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: Plant Size (ft²) Employment:):		1974 20000 5			

Мар Кеу	Number Records	of Direction/ Distance (m)	Elev/Diff (m)	Site		DB
<u>Details</u> Description: SIC/NAICS C	ode:	INDUSTRIAL AND (3599	COMMERCIAL M/	ACHINERY AND EQUIPME	NT, NOT ELSEWHERE CLASSIFIED	
Description: SIC/NAICS C	ode:	Machine Shops 332710				
Description: SIC/NAICS C	ode:	All Other General-Po 333990	urpose Machinery	Manufacturing		
<u>47</u>	3 of 3	NW/248.0	207.9/-1.00	D & D Tool & Machine 14 Cadetta Rd Brampton ON L6P 0X4	Co.	SCT
Established: Plant Size (ft Employment	²): :	1974 20000				
<u>Details</u> Description: SIC/NAICS C	ode:	Machine Shops 332710				
Description: SIC/NAICS C	ode:	All Other General-Po 333990	urpose Machinery	Manufacturing		
<u>48</u>	1 of 1	NNW/261.7	212.5 / 3.59	10410 Coleraine Drive Brampton ON L6P 0V4	1	EHS
Order No:		20070501001		Nearest Intersection:		
Status: Report Type:		C CAN - Complete Report		Municipality: Client Prov/State:		
Report Date:		5/9/2007		Search Radius (km):	0.25	
Date Receive	ed: Nomo:	5/1/2007		X:	-79.679489	
Lot/Building	Size:			1.	-5.017021	
Additional In	fo Ordered:					
<u>49</u>	1 of 22	NNE/263.3	207.9/-1.00	2278581 ONTARIO LIN 9701 HIGHWAY 50 WOODBRIDGE ON L4.	IITED H 2G4	EASR
Annroval No		R-004-0111056603		SWP Area Name	Toronto	
Status:		REGISTERED		MOE District:	York-Durham	
Date:		2019-03-04		City:	WOODBRIDGE	
Record Type	:	EASR MOFA		Latitude: Longitude:	43.8177778 -79.67611111	
Project Type	:	Waste Management System		Geometry X:		
Full Address	:	EASP Mana	noment System	Geometry Y:		
Full PDF Lini	k:	http://www.accesser	vironment.ene.go	v.on.ca/AEWeb/ae/ViewDoo	cument.action?documentRefID=213142	7
<u>49</u>	2 of 22	NNE/263.3	207.9/-1.00	2563570 ONTARIO LTI 9701 HIGHWAY 50 WOODBRIDGE ON L4	D. H 2G4	EASR
Approval No.	:	R-004-6110183703		SWP Area Name:	Toronto	
Status:		REGISTERED		MOE District:	York-Durham	
Date:		2017-07-14		City:	WOODBRIDGE	

erisinfo.com | Environmental Risk Information Services

Order No: 20190508200

Map Key	Number Records	of Dire S Dist	ection/ tance (m)	Elev/Diff (m)	Site		DB	
Record Type: Link Source: Project Type: Full Address: Approval Type: Full PDF Link:		EASR MOFA Waste Manageme EASR-\ http://w	ent System Waste Manag ww.accesser	gement System nvironment.ene.go	Latitude:43.81777778Longitude:-79.67611111Geometry X:Geometry Y:Ov.on.ca/AEWeb/ae/ViewDocument.action?documentRefID=2039301			
<u>49</u>	3 of 22	NNE/2	263.3	207.9/-1.00	9701 Highway No. 50 Kleinburg ON		EHS	
Order No: Status: Report Type: Report Date: Date Receive Previous Site Lot/Building Additional Int	d: Name: Size: fo Ordered:	20071206009 C CAN - Custom Re 12/12/2007 12/6/2007	eport		Nearest Intersection: Municipality: Client Prov/State: Search Radius (km): X: Y:	Major Mackenzi 0.45 -79.675172 43.816791	e Drive	
<u>49</u>	4 of 22	NNE/2	263.3	207.9 / -1.00	jb express 9701 highway 50 woodbridge ON L4H20	G4	GEN	
Generator No Status: Approval Yea Contam. Faci MHSW Facilit SIC Code: SIC Descripti	o: ars: ility: ty: ion:	ON3978882 2016 No 484110 GENER	RAL FREIGH	T TRUCKING, LO	PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin: CAL	Canada CO_OFFICIAL		
<u>Detail(s)</u>		050						
Waste Class: Waste Class	Desc:	252 WASTE	E OILS & LUE	BRICANTS				
<u>49</u>	5 of 22	NNE/2	263.3	207.9/-1.00	jb express 9701 highway 50 woodbridge ON L4H20	G4	GEN	
Generator No Status: Approval Yea Contam. Faci MHSW Facilit SIC Code: SIC Descripti	o: ars: illity: ty: ion:	ON3978882 Registered As of Dec 2018			PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin:	Canada		
<u>Detail(s)</u>								
Waste Class: Waste Class	Desc:	252 L Waste o	crankcase oil	s and lubricants				
<u>49</u>	6 of 22	NNE/2	263.3	207.9 / -1.00	jb express 9701 highway 50 woodbridge ON L4H20	G4	GEN	
Generator No Status:): 	ON3978882			PO Box No: Country:	Canada		
189	erisinfo.co	m Environment	al Risk Info	rmation Services	5		Order No: 20190508200	

Map Key	Numbe Record	er of Is	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Approval Yea Contam. Fac. MHSW Facili SIC Code: SIC Descripti	ars: ility: ty: ion:	2015 No No 484110	GENERAL FREIGH	IT TRUCKING, LO	Choice of Contact: Co Admin: Phone No Admin: DCAL	CO_OFFICIAL	
<u>Detail(s)</u>							
Waste Class Waste Class	: Desc:		252 WASTE OILS & LU	BRICANTS			
<u>49</u>	7 of 22		NNE/263.3	207.9/-1.00	CONSOLIDATED FA 9701 HIGHWAY 50 VAUGHAN ON L4H	ASTFRATE INC. 2G4	GEN
Generator No Status: Approval Yea Contam. Fac. MHSW Facili SIC Code: SIC Descript	o: ars: ility: ty: ion:	ON0222 2009 484122,	701 493110 General Freight Tru	icking Long Distar	PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin:	General Warehousing and Storage	
Waste Class: Waste Class	: Desc:		145 PAINT/PIGMENT/C	OATING RESIDU	JES		
Waste Class: Waste Class	: Desc:		150 INERT INORGANIC	CWASTES			
Waste Class: Waste Class	: Desc:		146 OTHER SPECIFIEI	D INORGANICS			
Waste Class: Waste Class	: Desc:		148 INORGANIC LABO	RATORY CHEMI	CALS		
Waste Class: Waste Class	: Desc:		211 AROMATIC SOLVE	ENTS			
Waste Class: Waste Class	: Desc:		212 ALIPHATIC SOLVE	INTS			
Waste Class: Waste Class	: Desc:		213 PETROLEUM DIST	TILLATES			
Waste Class: Waste Class	: Desc:		221 LIGHT FUELS				
Waste Class: Waste Class	: Desc:		232 POLYMERIC RESI	NS			
Waste Class: Waste Class	: Desc:		242 HALOGENATED P	ESTICIDES			
Waste Class: Waste Class	Desc:		251 OIL SKIMMINGS &	SLUDGES			
Waste Class: Waste Class	: Desc:		252 WASTE OILS & LU	BRICANTS			
Waste Class: Waste Class	: Desc:		263 ORGANIC LABOR	ATORY CHEMICA	ALS		

Map Key	Numbe Record	er of Direction/ Elev/Diff Is Distance (m) (m)		Elev/Diff (m)	Site	DB	
<u>49</u>	8 of 22	NNE/26	53.3	207.9/-1.00	CONSOLIDATED FASTFRATE INC. 9701 HIGHWAY 50 VAUGHAN ON	GEN	
Generator N	lo:	ON0222701			PO Box No:		
Status: Approval Ye	ars:	2013			Country: Choice of Contact:		
MHSW Facil	cility: lity:				Co Admin: Phone No Admin:		
SIC Code: SIC Descrip	tion:	484122, 493110 GENERA	AL WAREH	IOUSING AND ST	TORAGE		
<u>Detail(s)</u>							
Waste Class Waste Class	s: s Desc:	213 PETROL	EUM DIST	TILLATES			
Waste Class Waste Class	s: s Desc:	145 PAINT/P	IGMENT/C	COATING RESIDU	JES		
Waste Class Waste Class	s: s Desc:	212 ALIPHAT	FIC SOLVE	ENTS			
Waste Class Waste Class	s: s Desc:	263 ORGANI	C LABOR	ATORY CHEMICA	ALS		
Waste Class Waste Class	s: s Desc:	252 WASTE	OILS & LU	IBRICANTS			
Waste Class Waste Class	s: s Desc:	242 HALOGE	ENATED P	ESTICIDES			
Waste Class Waste Class	s: s Desc:	221 LIGHT F	UELS				
Waste Class Waste Class	s: s Desc:	150 INERT IN	NORGANI	C WASTES			
Waste Class Waste Class	s: s Desc:	146 OTHER S	SPECIFIE	D INORGANICS			
Waste Class Waste Class	s: s Desc:	148 INORGA	NIC LABC	RATORY CHEMI	CALS		
Waste Class Waste Class	s: s Desc:	251 OIL SKIN	/MINGS &	SLUDGES			
Waste Class Waste Class	s: s Desc:	232 POLYME	ERIC RESI	NS			
Waste Class Waste Class	s: s Desc:	211 AROMA ⁻	TIC SOLVE	ENTS			
<u>49</u>	9 of 22	NNE/26	53.3	207.9/-1.00	CONSOLIDATED FASTFRATE INC. 9701 HIGHWAY 50 VAUGHAN ON L4H 2G4	GEN	
Generator N	lo:	ON0222701			PO Box No:		
Status: Approval Ye Contam. Fae MHSW Facil	ears: cility: lity:	2010			Country: Choice of Contact: Co Admin: Phone No Admin:		

Мар Кеу	Numbe Record	r of Is	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
SIC Code: SIC Descripti	ion:	484122,	493110 General Freight Tru	cking Long Distan	ce Less Than Truck-Load,	General Warehousing and Stora	age
<u>Detail(s)</u>							
Waste Class: Waste Class	Desc:		148 INORGANIC LABOI	RATORY CHEMI	CALS		
Waste Class: Waste Class	Desc:		221 LIGHT FUELS				
Waste Class: Waste Class	Desc:		150 INERT INORGANIC	WASTES			
Waste Class: Waste Class	Desc:		146 OTHER SPECIFIED	NORGANICS			
Waste Class: Waste Class	Desc:		252 WASTE OILS & LUI	BRICANTS			
Waste Class: Waste Class	Desc:		251 OIL SKIMMINGS &	SLUDGES			
Waste Class: Waste Class	Desc:		211 AROMATIC SOLVE	INTS			
Waste Class: Waste Class	Desc:		232 POLYMERIC RESIN	NS			
Waste Class: Waste Class	Desc:		212 ALIPHATIC SOLVE	NTS			
Waste Class: Waste Class	Desc:		263 ORGANIC LABORA	TORY CHEMICA	LS		
Waste Class: Waste Class	Desc:		145 PAINT/PIGMENT/C	OATING RESIDU	ES		
Waste Class: Waste Class	Desc:		242 HALOGENATED PE	ESTICIDES			
Waste Class: Waste Class	Desc:		213 PETROLEUM DIST	ILLATES			
<u>49</u>	10 of 22		NNE/263.3	207.9/-1.00	CONSOLIDATED FA 9701 HIGHWAY 50 VAUGHAN ON L4H 2	STFRATE INC. 2G4	GEN
Generator No Status: Approval Yea Contam. Faci MHSW Facilio SIC Code: SIC Descripti	o: ars: ility: ty: ion:	ON0222 2015 No No 484122,	493110 484122, GENERAL	WAREHOUSING	PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin: AND STORAGE	Canada CO_OFFICIAL	
<u>Detail(s)</u>							
Waste Class: Waste Class	Desc:		263 ORGANIC LABORA	TORY CHEMICA	LS		
Waste Class: Waste Class	Desc:		150 INERT INORGANIC	WASTES			

Map Key	Numbe Record	r of Is	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Waste Class. Waste Class	: Desc:		251 OIL SKIMMINGS &	SLUDGES		
Waste Class. Waste Class	: Desc:		122 ALKALINE WASTES	S - OTHER META	ALS	
Waste Class. Waste Class	: Desc:		242 HALOGENATED PE	ESTICIDES		
Waste Class. Waste Class	: Desc:		148 INORGANIC LABOI	RATORY CHEMIC	CALS	
Waste Class. Waste Class	: Desc:		232 POLYMERIC RESIN	NS		
Waste Class. Waste Class	: Desc:		212 ALIPHATIC SOLVE	NTS		
Waste Class. Waste Class	Desc:		252 WASTE OILS & LUI	BRICANTS		
Waste Class. Waste Class	Desc:		213 PETROLEUM DIST	ILLATES		
Waste Class. Waste Class	Desc:		145 PAINT/PIGMENT/C	OATING RESIDU	IES	
Waste Class. Waste Class	: Desc:		146 OTHER SPECIFIED	NORGANICS		
Waste Class. Waste Class	: Desc:		221 LIGHT FUELS			
Waste Class. Waste Class	: Desc:		211 AROMATIC SOLVE	INTS		
<u>49</u>	11 of 22		NNE/263.3	207.9/-1.00	CONSOLIDATED FASTFRATE INC. 9701 HIGHWAY 50 VAUGHAN ON L4H 2G4	GEN
Generator No	D:	ON0222	2701		PO Box No:	
Approval Yea Contam. Fac MHSW Facili	ars: ility: tv:	00,01,02	2,03,04,05,06,07,08		Choice of Contact: Co Admin: Phone No Admin:	
SIC Code: SIC Descript	ion:	4561	GEN. FREIGHT TR	UCK.		
<u>Detail(s)</u>						
Waste Class. Waste Class	Desc:		146 OTHER SPECIFIED) INORGANICS		
Waste Class. Waste Class	: Desc:		150 INERT INORGANIC	WASTES		
Waste Class. Waste Class	: Desc:		232 POLYMERIC RESIN	NS		
Waste Class. Waste Class	: Desc:		145 PAINT/PIGMENT/C	OATING RESIDU	IES	
Waste Class.	:		148			

Weste Class Desc: INORGANIC LABORATORY CHEMICALS Weste Class Desc: 211 Weste Class Desc: 212 Weste Class Desc: 212 Weste Class Desc: 213 Weste Class Desc: 213 Weste Class Desc: 214 Weste Class Desc: 213 Weste Class Desc: 214 Weste Class Desc: LIGHT FUELS Weste Class Desc: 214 Weste Class Desc: 214 Weste Class Desc: 011 SKUMMINGS & SLUDGES Weste Class Desc: 001 SKUMMINGS & SLUDGES Situus: 014 Colorestription: Approval Years: 2014 Colorestription: Sit Desc: 212 Weste Class Weste Class:	Map Key	Number Records	of	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Missie Class: 21 Weste Class: 212 Weste Class: 213 Weste Class: 214 Weste Class: 213 Weste Class: 214 Weste Class: 215 Weste Class: 213 Weste Class: 213 Weste Class: 214 Weste Class: 215 Weste Class: 216 Weste Class: 217 Weste Class: 216 Weste Class: 217 Weste Class: 2014 Contant: Contante: Contan: For Unity: No Contante: Contan: For Unity: No Contante:	Waste Class	Desc:		INORGANIC LABC	RATORY CHEMIC	CALS		
Missie Class: 213 Wissie Class: 213 Wissie Class: 213 Wissie Class: 214 Wissie Class: 211 Wissie Class: 211 Wissie Class: 212 Wissie Class: 213 Wissie Class: 214 Wissie Class: 213 Wissie Class: 214 Wissie Class: 215 Wissie Class: 214 Wissie Class: 203 Wissie Class: 201 Wissie Class: 2014 Wissie Class: 2014 Contant: ConsolubateD FASTFRATE INC. Contant: Contant: Contant: Color: Sidue: 2014 Missie Class: 2014 Contant: Color: No No Sidue	Waste Class Waste Class	: Desc:		211 AROMATIC SOLVE	ENTS			
Waste Class: 213 PETROLEUM DISTILLATES Waste Class: 221 UGHT FUELS Waste Class: 221 UGHT FUELS Waste Class: 242 UGHT FUELS Waste Class: 242 UGHT FUELS Waste Class: 242 UGHT FUELS Waste Class: 251 UGHT FUELS Waste Class: 252 UGES Class: Waste Class: 252 UGES Class: Waste Class: 253 ORGANIC LABORATORY CHEMICALS Waste Class: 263 ORGANIC LABORATORY CHEMICALS Use Class: 210 f22 NNE263.3 207.9 / 1.00 VAUGHAN ON LHI 264 Generator No: ON0222701 Value And Main: Controls: Approval Vaers: 2014 Control: Control: Control: No Value And Main: Science Class: Sic Description: 484122, 493110 Sic Description: 150 Vaste Class: Vaste Class: 148 Waste Class Desc: 149 Waste Class: 071 HICHWARKS Waste Class: 150 Waste Class: 150 Waste Class: <t< th=""><th>Waste Class Waste Class</th><th>: Desc:</th><th></th><th>212 ALIPHATIC SOLVE</th><th>ENTS</th><th></th><th></th><th></th></t<>	Waste Class Waste Class	: Desc:		212 ALIPHATIC SOLVE	ENTS			
Waste Class: 221 Waste Class: 242 Waste Class: 242 Waste Class: 251 Waste Class: 252 Waste Class: 0L SKIMMINGS & SLUDGES Waste Class: 252 Waste Class: 263 Waste Class: 2014 Consol Class: 2014 Contant. Facility: No No Contant: Code: 484122, 493110 SUC Description: 484122, GENERAL WAREHOUSING AND STORAGE Datail(S) Waste Class: Waste Class: 212 Waste Class: 2	Waste Class Waste Class	: Desc:		213 PETROLEUM DIST	TILLATES			
Waste Class: 242 Waste Class: 251 Waste Class: 251 Waste Class: 252 Waste Class: 263 Waste Class: 207.9 / -1.00 CONSOLIDATED FASTFRATE INC. Sector ORGANIC LABORATORY CHEMICALS Gene Generator No: ON0222701 PO Box No: Concerts: Content: 2014 Content: CO_OFFICIAL Content: 2014 Content: CO_OFFICIAL Content: 494122, 493110 SIC Code: CO Content: CO_OFFICIAL SIC Code: 150 NERTI INORGANIC WASTES Waste Class: 212 Waste Class: 212 212 Waste Class: 252 Waste Class Desc: 164 Content: CO_OFFI	Waste Class Waste Class	: Desc:		221 LIGHT FUELS				
Waste Class: 251 Waste Class: 252 Waste Class: 252 Waste Class: Waste Class: 263 ORGANIC LABORATORY CHEMICALS Image: Class Desc: 263 ORGANIC LABORATORY CHEMICALS Image: Class Desc: 263 ORGANIC LABORATORY CHEMICALS Image: Class Desc: 0N0222701 ORGANIC Waste Class: Image: Class Desc: 150 Image: Class Desc: Image: Class Desc: 148 ORGANIC WASTE S Image: Class Desc: 146 Waste Class: Image: Class Desc: 252 Waste Class Desc: Imaste Class Desc: 252 Waste Cla	Waste Class Waste Class	: Desc:		242 HALOGENATED P	ESTICIDES			
Waste Class: 252 Waste Class: 253 Waste Class: 283 ORGANIC LABORATORY CHEMICALS 49 12 of 22 NNE263.3 207.9 / -1.00 CONSOLIDATED FASTFRATE INC. GEN Status: ON0222701 PO Box No: Country: Contant: CO_OFFICIAL Contant: Country: Contant: Co_OFFICIAL Contant: Country: Contant: Co_OFFICIAL Contant: Co_OFFICIAL Contant: Co_OFFICIAL Contant: Country: SIC Code: 484122, GENERAL WAREHOUSING AND STORAGE Detail(s) No Waste Class: 150 Waste Class: 212 Waste Class: 212 Waste Class: 252 Waste Class: 252 Waste Class: 252 Waste Class: 263 Waste Class: <th>Waste Class Waste Class</th> <th>: Desc:</th> <th></th> <th>251 OIL SKIMMINGS &</th> <th>SLUDGES</th> <th></th> <th></th> <th></th>	Waste Class Waste Class	: Desc:		251 OIL SKIMMINGS &	SLUDGES			
Waste Class: 283 ORGANIC LABORATORY CHEMICALS 49 12 of 22 NNE/263.3 207.9/-1.00 CONSOLIDATED FASTFRATE INC. 9701 HIGHWA Y 50 VAUGHAN ON LHH 264 GEN Generator No: ON0222701 PO Box No: Country: Canada Choice of Contact: Co_OOFFICIAL Contam. Facility: Consolidate of Contact: Co_OOFFICIAL Cocode: CO_OOFFICIAL Co_OOFFICIAL Cocode: SKC Description: 484122, 493110 Phone No Admini: SKC Code: CO_OOFFICIAL Co Code: SKC Class: 150 Phone No Admini: SKC Code: No Waste Class: 212 Waste Class: 212 Waste Class: 150 Waste Class: 212 Waste Class: 212 Waste Class: 252 Waste Class: 252 Waste Class: 252 Waste Class: 232 ORGANIC LABORATORY CHEMICALS Waste Class: 232 Waste Class Desc: POLYMERIC RESINS Waste Class: 232 Waste Class: 232	Waste Class Waste Class	: Desc:		252 WASTE OILS & LU	IBRICANTS			
49 12 of 22 NNE2G3.3 207.9 / - 1.00 CONSOLIDATED FASTFRATE INC. SYOI HIGHWAY 50 SYOI HIGHWAY 50 WAUGHAN DU AH 2GA Consolidated pastering Co	Waste Class Waste Class	: Desc:		263 ORGANIC LABOR	ATORY CHEMICA	LS		
Generator No:: ON0222701 PO Box No:: Country:: Canada CO_OFFICIAL Approval Years:: 2014 Choice of Contact:: Co Admin:: CO_OFFICIAL Approval Years:: No Co Admin:: CO_OFFICIAL MHSW Facility:: No Phone No Admin:: CO_OFFICIAL SIC Description: 484122, GENERAL WAREHOUSING AND STORAGE Contam. Facility:: No Detail(s) INERT INORGANIC WASTES INERT INORGANIC WASTES Waste Class: 212 Waste Class: 212 Waste Class: 212 Waste Class: 252 Waste Class: 252 Waste Class: 252 Waste Class: 263 ORGANIC LABORATORY CHEMICALS SCRADIC LABORATORY CHEMICALS Waste Class: 232 Waste Class: 232 Waste Class: 242	<u>49</u>	12 of 22		NNE/263.3	207.9/-1.00	CONSOLIDATED FA: 9701 HIGHWAY 50 VAUGHAN ON L4H 2	STFRATE INC. 9G4	GEN
Detail(s)Waste Class:150 INERT INORGANIC WASTESWaste Class:212 ALIPHATIC SOLVENTSWaste Class:212 ALIPHATIC SOLVENTSWaste Class:146 OTHER SPECIFIED INORGANICSWaste Class:252 WASTE OILS & LUBRICANTSWaste Class:263 ORGANIC LABORATORY CHEMICALSWaste Class:232 POLYMERIC RESINSWaste Class:232 POLYMERIC RESINSWaste Class:242 HALOGENATED PESTICIDES	Generator N Status: Approval Ye Contam. Fac MHSW Facil SIC Code: SIC Descript	o: ars: :ility: ity: tion:	ON0222 2014 No 484122,	701 493110 484122, GENERAL	- WAREHOUSING	PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin: AND STORAGE	Canada CO_OFFICIAL	
Waste Class:150Waste Class Desc:INERT INORGANIC WASTESWaste Class:212Waste Class:212Waste Class:146Waste Class:252Waste Class:252Waste Class:263Waste Class:263Waste Class:232Waste Class:232Waste Class:242Waste Class:232Waste Class:242Waste Class:242 <th><u>Detail(s)</u></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	<u>Detail(s)</u>							
Waste Class:212 ALIPHATIC SOLVENTSWaste Class Desc:146 OTHER SPECIFIED INORGANICSWaste Class:252 WASTE OILS & LUBRICANTSWaste Class:263 ORGANIC LABORATORY CHEMICALSWaste Class:232 POLYMERIC RESINSWaste Class:232 POLYMERIC RESINSWaste Class:245 POLYMERIC RESINSWaste Class:242 HALOGENATED PESTICIDES	Waste Class Waste Class	: Desc:		150 INERT INORGANI	CWASTES			
Waste Class:146 OTHER SPECIFIED INORGANICSWaste Class:252 WASTE OILS & LUBRICANTSWaste Class:263 ORGANIC LABORATORY CHEMICALSWaste Class:232 POLYMERIC RESINSWaste Class:232 POLYMERIC RESINSWaste Class:242 HALOGENATED PESTICIDES	Waste Class Waste Class	: Desc:		212 ALIPHATIC SOLVE	ENTS			
Waste Class: Waste Class Desc:252 WASTE OILS & LUBRICANTSWaste Class: Waste Class Desc:263 ORGANIC LABORATORY CHEMICALSWaste Class: Waste Class Desc:232 POLYMERIC RESINSWaste Class: PAINT/PIGMENT/COATING RESIDUES242 HALOGENATED PESTICIDES	Waste Class Waste Class	: Desc:		146 OTHER SPECIFIE	D INORGANICS			
Waste Class:263 ORGANIC LABORATORY CHEMICALSWaste Class:232 POLYMERIC RESINSWaste Class:245 PAINT/PIGMENT/COATING RESIDUESWaste Class:242 HALOGENATED PESTICIDES	Waste Class Waste Class	: Desc:		252 WASTE OILS & LU	IBRICANTS			
Waste Class:232 POLYMERIC RESINSWaste Class:145 PAINT/PIGMENT/COATING RESIDUESWaste Class:242 HALOGENATED PESTICIDES	Waste Class Waste Class	: Desc:		263 ORGANIC LABORA	ATORY CHEMICA	LS		
Waste Class:145Waste Class Desc:PAINT/PIGMENT/COATING RESIDUESWaste Class:242Waste Class Desc:HALOGENATED PESTICIDES	Waste Class Waste Class	: Desc:		232 POLYMERIC RESI	NS			
Waste Class: 242 Waste Class Desc: HALOGENATED PESTICIDES	Waste Class Waste Class	: Desc:		145 PAINT/PIGMENT/C	COATING RESIDU	ES		
	Waste Class Waste Class	: Desc:		242 HALOGENATED P	ESTICIDES			

Мар Кеу	Numbe Record	er of Is	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Waste Class Waste Class	: Desc:		122 ALKALINE WASTE	S - OTHER MET	ALS	
Waste Class: Waste Class	: Desc:		211 AROMATIC SOLVE	ENTS		
Waste Class: Waste Class	: Desc:		221 LIGHT FUELS			
Waste Class: Waste Class	: Desc:		148 INORGANIC LABO	RATORY CHEMI	CALS	
Waste Class: Waste Class	: Desc:		251 OIL SKIMMINGS &	SLUDGES		
Waste Class Waste Class	: Desc:		213 PETROLEUM DIST	TILLATES		
<u>49</u>	13 of 22		NNE/263.3	207.9/-1.00	CONSOLIDATED FASTFRATE INC. 9701 HIGHWAY 50 VAUGHAN ON L4H 2G4	GEN
Generator No	o:	ON0222	2701		PO Box No:	
Status: Approval Yea	ars:	2012			Country: Choice of Contact:	
Contam. Fac MHSW Facili	ility: ity:				Co Admin: Phone No Admin:	
SIC Code: SIC Descript	ion:	484122,	, 493110 General Freight Tru	icking Long Distar	nce Less Than Truck-Load, General Warehousing and Storage	
<u>Detail(s)</u>						
Waste Class: Waste Class	: Desc:		263 ORGANIC LABOR/	ATORY CHEMICA	ALS	
Waste Class: Waste Class	: Desc:		150 INERT INORGANIO	CWASTES		
Waste Class: Waste Class	: Desc:		242 HALOGENATED P	ESTICIDES		
Waste Class: Waste Class	: Desc:		212 ALIPHATIC SOLVE	INTS		
Waste Class: Waste Class	: Desc:		146 OTHER SPECIFIEI	D INORGANICS		
Waste Class: Waste Class	: Desc:		232 POLYMERIC RESI	NS		
Waste Class: Waste Class	: Desc:		221 LIGHT FUELS			
Waste Class: Waste Class	: Desc:		213 PETROLEUM DIST	TILLATES		
Waste Class: Waste Class	: Desc:		251 OIL SKIMMINGS &	SLUDGES		
Waste Class: Waste Class	: Desc:		148 INORGANIC LABO	RATORY CHEMI	CALS	
Waste Class: Waste Class	: Desc:		252 WASTE OILS & LU	BRICANTS		

Map Key Numb Recor	er of ds	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Waste Class: Waste Class Desc:		145 PAINT/PIGMENT/C	OATING RESIDU	ES	
Waste Class: Waste Class Desc:		211 AROMATIC SOLVE	INTS		
49 14 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:	ON0222 2011 484122,	2701 , 493110 General Freight Tru	cking Long Distan	PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin: ce Less Than Truck-Load, General Warehousing and Storage	
<u>Detail(s)</u> Waste Class:		221			
Waste Class Desc: Waste Class: Waste Class Desc:		LIGHT FUELS 213 PETROLEUM DIST	ILLATES		
Waste Class: Waste Class Desc:		232 POLYMERIC RESII	NS		
Waste Class: Waste Class Desc:		145 PAINT/PIGMENT/C	OATING RESIDU	ES	
Waste Class: Waste Class Desc:		242 HALOGENATED PI	ESTICIDES		
Waste Class: Waste Class Desc:		211 AROMATIC SOLVE	INTS		
Waste Class: Waste Class Desc:		252 WASTE OILS & LUI	BRICANTS		
Waste Class: Waste Class Desc:		150 INERT INORGANIC	WASTES		
Waste Class: Waste Class Desc:		251 OIL SKIMMINGS &	SLUDGES		
Waste Class: Waste Class Desc:		148 INORGANIC LABO	RATORY CHEMIC	CALS	
Waste Class: Waste Class Desc:		263 ORGANIC LABORA	TORY CHEMICA	LS	
Waste Class: Waste Class Desc:		146 OTHER SPECIFIED) INORGANICS		
Waste Class: Waste Class Desc:		212 ALIPHATIC SOLVE	NTS		
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 Status: Approval Yea Contam. Faci MHSW Facilit SIC Code: SIC Descripti	o: ON022 Registe ars: As of M ility: ty:	2701 ered 1ar 2019		PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin:	Canada	
<u>Detail(s)</u>						
Waste Class: Waste Class	Desc:	242 A Halogenated pestici	des and herbicid	les		
Waste Class: Waste Class	Desc:	221 I Light fuels				
Waste Class: Waste Class	Desc:	232 I Polymeric resins				
Waste Class: Waste Class	Desc:	252 L Waste crankcase oil	s and lubricants			
Waste Class: Waste Class	Desc:	145 I Wastes from the use	e of pigments, co	patings and paints		
Waste Class: Waste Class	Desc:	212 I Aliphatic solvents ar	nd residues			
Waste Class: Waste Class	Desc:	148 C Misc. wastes and inc	organic chemica	ls		
Waste Class: Waste Class	Desc:	221 L Light fuels				
Waste Class: Waste Class	Desc:	212 L Aliphatic solvents ar	nd residues			
Waste Class: Waste Class	Desc:	242 B Halogenated pestici	des and herbicid	les		
Waste Class: Waste Class	Desc:	150 L Inert organic wastes				
Waste Class: Waste Class	Desc:	251 L Waste oils/sludges (petroleum based	(b		
Waste Class: Waste Class	Desc:	122 C Alkaline slutions - co	ontaining other m	netals and non-metals (not c	cyanide)	
Waste Class: Waste Class	Desc:	213 T Petroleum distillates				
Waste Class: Waste Class	Desc:	145 L Wastes from the use	e of pigments, co	patings and paints		
Waste Class: Waste Class	Desc:	232 L Polymeric resins				
Waste Class: Waste Class	Desc:	213 I Petroleum distillates				
Waste Class: Waste Class	Desc:	232 B Polymeric resins				

Мар Кеу	Numbei Record	r of s	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Waste Class: Waste Class	Desc:		263 I Misc. waste organio	chemicals			
Waste Class: Waste Class	Desc:		253 L Emulsified oils				
<u>49</u>	16 of 22		NNE/263.3	207.9/-1.00	jb express 9701 highway 50 woodbridge ON L4H2	G4	GEN
Generator No Status: Approval Yea Contam. Faci MHSW Facilit SIC Code: SIC Descripti	o: ars: ility: ty: 'on:	ON39788 Registere As of Mar	882 9d r 2019		PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin:	Canada	
<u>Detail(s)</u> Waste Class: Waste Class	Desc:		252 L Waste crankcase o	ils and lubricants			
<u>49</u>	17 of 22		NNE/263.3	207.9/-1.00	CONSOLIDATED FAS 9701 HIGHWAY 50 VAUGHAN ON L4H 20	STFRATE INC. G4	GEN
Generator No Status: Approval Yea Contam. Faci MHSW Facilit SIC Code: SIC Descripti	o: Inrs: Ility: ty: Yon:	ON02227 Registere As of Dec	701 ed : 2018		PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin:	Canada	
<u>Detail(s)</u>							
Waste Class: Waste Class	Desc:		122 C Alkaline slutions - c	ontaining other me	tals and non-metals (not cy	anide)	
Waste Class: Waste Class	Desc:		145 I Wastes from the us	e of pigments, coa	tings and paints		
Waste Class: Waste Class	Desc:		145 L Wastes from the us	e of pigments, coa	tings and paints		
Waste Class: Waste Class	Desc:		148 C Misc. wastes and in	organic chemicals			
Waste Class: Waste Class	Desc:		150 L Inert organic wastes	5			
Waste Class: Waste Class	Desc:		212 I Aliphatic solvents a	nd residues			
Waste Class: Waste Class	Desc:		212 L Aliphatic solvents a	nd residues			
Waste Class: Waste Class	Desc:		213 I Petroleum distillates	5			
Waste Class: Waste Class	Desc:		213 T Petroleum distillates	5			

Map Key	Number Record	r of s	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Waste Class: Waste Class	Desc:		221 I Light fuels				
Waste Class: Waste Class	Desc:		221 L Light fuels				
Waste Class: Waste Class	Desc:		232 B Polymeric resins				
Waste Class: Waste Class	Desc:		232 I Polymeric resins				
Waste Class: Waste Class	Desc:		232 L Polymeric resins				
Waste Class: Waste Class	Desc:		242 A Halogenated pestici	des and herbicides	5		
Waste Class: Waste Class	Desc:		242 B Halogenated pestici	des and herbicides	5		
Waste Class: Waste Class	Desc:		251 L Waste oils/sludges ((petroleum based)			
Waste Class: Waste Class	Desc:		252 L Waste crankcase oil	ls and lubricants			
Waste Class: Waste Class	Desc:		253 L Emulsified oils				
Waste Class: Waste Class	Desc:		263 I Misc. waste organic	chemicals			
<u>49</u>	18 of 22		NNE/263.3	207.9/-1.00	CONSOLIDATED FA 9701 HIGHWAY 50 VAUGHAN ON L4H 2	ASTFRATE INC. 2G4	GEN
Generator No Status: Approval Yea Contam. Faci MHSW Facilit SIC Code: SIC Descripti	o: ars: ility: ty: ion:	ON0222 2016 No 484122,	493110 484122, GENERAL	WAREHOUSING	PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin: AND STORAGE	Canada CO_OFFICIAL	
<u>Detail(s)</u>							
Waste Class: Waste Class	Desc:		146 OTHER SPECIFIED	NORGANICS			
Waste Class: Waste Class	Desc:		212 ALIPHATIC SOLVE	NTS			
Waste Class: Waste Class	Desc:		252 WASTE OILS & LUI	BRICANTS			
Waste Class: Waste Class	Desc:		145 PAINT/PIGMENT/C	OATING RESIDUI	ES		
Waste Class: Waste Class	Desc:		251 OIL SKIMMINGS &	SLUDGES			
Waste Class:			213				

Мар Кеу	Number Records	of Direction/ Distance (m)	Elev/Diff (m)	Site		DB	
Waste Class	Desc:	PETROLEUM DIST	ILLATES				
Waste Class Waste Class	: Desc:	150 INERT INORGANIC	WASTES				
Waste Class Waste Class	: Desc:	232 POLYMERIC RESI	NS				
Waste Class Waste Class	: Desc:	221 LIGHT FUELS					
Waste Class Waste Class	: Desc:	148 INORGANIC LABO	RATORY CHEMI	CALS			
Waste Class Waste Class	: Desc:	211 AROMATIC SOLVE	ENTS				
Waste Class Waste Class	: Desc:	122 ALKALINE WASTES - OTHER METALS					
Waste Class Waste Class	: Desc:	242 HALOGENATED P	ESTICIDES				
Waste Class Waste Class	: Desc:	263 ORGANIC LABOR/	ATORY CHEMIC	ALS			
<u>49</u>	19 of 22	NNE/263.3	207.9/-1.00	Consolidated Fastfra 9701 Highway 50 COI INC. Vaughan ON	te (Ontario) Holdings Inc. NSOLIDATED FASTFRATE	SPL	
Ref No: Site No: Incident Dt: Year:		0022-6QCNNB 6/1/2006 Other Discharges		Discharger Report: Material Group: Health/Env Conseq: Client Type:	Oils		
Incident Cad Incident Eve Contaminant Contaminant Contaminant Contam Limi	ise: nt: t Code: t Name: t Limit 1: it Freq 1: t UN No 1:	13 DIESEL FUEL		Sector Type: Agency Involved: Nearest Watercourse: Site Address: Site District Office: Site Postal Code: Site Region:	9701 HIGHWAY 50 York-Durham		
Environment Nature of Im Receiving M Receiving El MOE Respor	t Impact: pact: edium: nv: nse: on Scn:	Possible Soil Contamination; Surface V Land & Water	Vater Pollution	Site Municipality: Site Lot: Site Conc: Northing: Easting: Site Geo Ref Accu:	Vaughan NA NA		
MOE Reporte Dt Documen Incident Rea	ed Dt: t Closed: son:	6/1/2006		Site Map Datum: SAC Action Class: Source Type:			
Site Name: Site County/ Site Geo Ref	District: Meth:	9701 HIGHWAY 50					
Incident Sun Contaminan	nmary: t Qty:	Consolidated Fastfr 76 L	ate,ukn vol diese	I to settling pond			
<u>49</u>	20 of 22	NNE/263.3	207.9/-1.00	9701 Highway 50 in V Vaughan ON	Voodbridge <unofficial></unofficial>	SPL	
Ref No:		5061-8N6VZE		Discharger Report:			
Site No: Incident Dt:		10/31/2011		Material Group: Health/Env Conseq:			

Map Key	Number Records	of	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Year: Incident Cau Incident Even Contaminant Contaminant Contaminant Contaminant Environment Nature of Imp Receiving M Receiving Er MOE Resport Dt MOE Arvl MOE Reporte Dt Document	se: nt: t Code: t Name: t Limit 1: it Freq 1: t UN No 1: t Impact: pact: edium: nv: nse: on Scn: ed Dt: t Closed:	27 FLAMMAB Not Anticip: 10/31/2011	LE LIQUIDS, N.O.S ated	i.	Client Type: Sector Type: Agency Involved: Nearest Watercourse: Site Address: Site District Office: Site Postal Code: Site Region: Site Region: Site Region: Site Conc: Site Conc: Northing: Easting: Site Geo Ref Accu: Site Geo Ref Accu: Site Map Datum: SAC Action Class:	Vaughan Land Spills	
Incident Rea Site Name: Site County// Site Geo Ref Incident Sun Contaminant	son: District: Meth: mary: t Qty:	9 L	701 Highway 50 in orama Inc-Ukn Qty	Woodbridge <uf< td=""><td>Source Type: NOFFICIAL> bund from Leaking Tote</td><td></td><td></td></uf<>	Source Type: NOFFICIAL> bund from Leaking Tote		

<u>49</u>	21 of 22	NNE/263.3	207.9 / -1.00	Consolidated Fastfra 9701 Highway 50 Vaughan ON	te (Ontario) Holdings Inc.	SPL
Ref No:		7355-5TFR59		Discharger Report:		
Site No: Incident Dt: Vear:		11/18/2003		Material Group: Health/Env Conseq: Client Type:	Chemical	
Incident Cau Incident Evel	se: nt:	Other Transport Accident		Sector Type: Agency Involved:	Transport Truck	
Contaminant Contaminant	t Code: t Name:	27 PHENOLIC RESINS		Nearest Watercourse: Site Address:	Vork Durbarn	
Contaminant Contam Limi Contaminant	t Limit 1: it Freq 1: t UN No 1:			Site District Office: Site Postal Code: Site Region:	Central	
Environment Nature of Imp	t Impact: pact:	Possible Soil Contamination; Surface	Water Pollution	Site Municipality: Site Lot:	Vaughan	
Receiving Me Receiving En	edium: 1v:	Land & Water		Site Conc: Northing:	NA	
Dt MOE Respon	on Scn: ed Dt:	11/19/2003		Easting: Site Geo Ref Accu: Site Map Datum:	NA	
Dt Document Incident Rea	t Closed: son:	Damage By Moving Equipm	ent - Containers	SAC Action Class: Source Type:	Spills	
Site Name: Site County/I	District:	damaged by moving CONSOLIDATED	FASTFRATE INC.			
Site Geo Ref Incident Sum Contaminant	Meth: nmary: t Qty:	Consolidated Fas 225 L	tfrate: 225L Phenolic	Resin to grd		
<u>49</u>	22 of 22	NNE/263.3	207.9/-1.00	Consolidated Fastfra 9701 Highway 50 COI	te (Ontario) Holdings Inc. NSOLIDATED FASTFRATE	SPL
				INC. Vaughan ON		
Ref No: Site No:		5012-6NCH6X		Discharger Report: Material Group:	Chemicals	
incident Dt:		3/29/2006		Health/Env Conseq:		

Map Key	Number Records	of G	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Year: Incident Cau: Incident Even Contaminant Contaminant Contaminant Contam Limi Contaminant	se: nt: Code: Name: Limit 1: t Freq 1: (UN No 1:	Pipe Or Hos 24 VARSOL	se Leak		Client Type: Sector Type: Agency Involved: Nearest Watercourse: Site Address: Site District Office: Site Postal Code: Site Region:	Other 9701 HIGHWAY 50 York-Durham	
Environment Nature of Imp Receiving Me Receiving En MOE Respon Dt MOE ArvI	t Impact: pact: edium: nv: onse: on Scn:	Not Anticipa Human Hea Land	ated Ilth/Safety; Multi-M	edia Pollution	Site Municipality: Site Lot: Site Conc: Northing: Easting: Site Geo Ref Accu: Site Geo Potum:	Vaughan NA NA	
Dt Document Incident Reas	t Closed: son:	Equipment Components	Failure - Malfunctio 3 701 HIGHWAY 50	on of system	Site map Datum. SAC Action Class: Source Type:		
Site County/I Site Geo Ref Incident Sum Contaminant	District: Meth: mary: Qty:	C 25	onsolidated Fastfra 5 L	ate:@25 L varsol	to floor, no CB impacted		
<u>50</u>	1 of 14		ESE/265.1	205.3/-3.54	S.L.H. TRANSPORT II 9601 HWY 50 VAUGHAN ON	NC.	GEN
Generator No Status: Approval Yea Contam. Facilit MHSW Facilit SIC Code: SIC Descripti	o: ars: ility: ty: ion:	ON1533301 2011 484121, 484 G	3490 eneral Freight Tru	cking Long Distar	PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin:	ort Activities for Road Transportation	
<u>Detail(s)</u>							
Waste Class: Waste Class	Desc:	2 [.] P	13 ETROLEUM DIST	ILLATES			
Waste Class: Waste Class	Desc:	2 [.] A	12 LIPHATIC SOLVE	NTS			
Waste Class: Waste Class	Desc:	2! O	51 IL SKIMMINGS &	SLUDGES			
Waste Class: Waste Class	Desc:	25 W	52 /ASTE OILS & LUI	BRICANTS			
<u>50</u>	2 of 14		ESE/265.1	205.3 / -3.54	S.L.H. TRANSPORT II 9601 HWY 50 VAUGHAN ON	NC.	GEN
Generator No	o:	ON1533301			PO Box No:		
Status: Approval Yea Contam. Faci MHSW Facili	ars: ility: ty:	2010			<i>Country:</i> Choice of Contact: Co Admin: Phone No Admin:		
SIC Code: SIC Descripti	ion:	484121, 488 G	8490 eneral Freight Tru	cking Long Distan	ce Truck-Load, Other Suppo	ort Activities for Road Transportation	

Мар Кеу	Number Records	of S	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Detail(s)							
Waste Class: Waste Class	Desc:		213 PETROLEUM DISTI	LLATES			
Waste Class: Waste Class	Desc:		251 OIL SKIMMINGS & S	SLUDGES			
Waste Class: Waste Class	Desc:		252 WASTE OILS & LUE	BRICANTS			
Waste Class: Waste Class	Desc:		212 ALIPHATIC SOLVER	NTS			
<u>50</u>	3 of 14		ESE/265.1	205.3 / -3.54	Train Trailer Rentals I 9601 Highway 50 VAUGHAN ON L4H2B	Ltd. 19	GEN
Generator No Status: Approval Yea Contam. Faci MHSW Facilit SIC Code: SIC Descripti	o: ars: ility: ty: ion:	ON83258 Registere As of Mar	72 d 2019		PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin:	Canada	
<u>Detail(s)</u>							
Waste Class: Waste Class	Desc:		251 L Waste oils/sludges (j	petroleum based)			
Waste Class: Waste Class	Desc:		213 T Petroleum distillates				
Waste Class: Waste Class	Desc:		232 L Polymeric resins				
Waste Class: Waste Class	Desc:		331 I Waste compressed o	gases including cyl	inders		
Waste Class: Waste Class	Desc:		252 L Waste crankcase oil	s and lubricants			
<u>50</u>	4 of 14		ESE/265.1	205.3 / -3.54	Train Trailer Rentals I 9601 Highway 50 VAUGHAN ON L4H2B	Ltd. 19	GEN
Generator No Status: Approval Yea Contam. Faci MHSW Facilit SIC Code: SIC Descripti	o: ars: ility: ty: ion:	ON83258 Registere As of Dec	72 d : 2018		PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin:	Canada	
<u>Detail(s)</u>							
Waste Class: Waste Class	Desc:		213 T Petroleum distillates				
Waste Class: Waste Class	Desc:		232 L Polymeric resins				

Map Key	Number Records	of	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Waste Class: Waste Class	Desc:		251 L Waste oils/sludges	(petroleum based)			
Waste Class: Waste Class I	Desc:		252 L Waste crankcase o	ils and lubricants			
Waste Class: Waste Class I	Desc:		331 I Waste compressed	gases including cyl	inders		
<u>50</u>	5 of 14		ESE/265.1	205.3 / -3.54	S.L.H. TRANSPORT IN 9601 HWY 50 VAUGHAN ON L4H2B9	C.	GEN
Generator No Status: Approval Yea Contam. Faci MHSW Facilit SIC Code: SIC Descriptio	o: nrs: llity: ly: con:	ON15333 2014 No 484121, 4	801 488490 GENERAL FREIGH ROAD TRANSPOR	HT TRUCKING, LON RTATION	PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin: NG DISTANCE, TRUCK-LO	Canada CO_OFFICIAL CATHY LEDINGHAM 905-893-4318 Ext. AD, OTHER SUPPORT ACTIVITIES	FOR
<u>Detail(s)</u>							
Waste Class: Waste Class I	Desc:		212 ALIPHATIC SOLVE	ENTS			
Waste Class: Waste Class I	Desc:		251 OIL SKIMMINGS &	SLUDGES			
Waste Class: Waste Class I	Desc:		213 PETROLEUM DIST	TILLATES			
Waste Class: Waste Class I	Desc:		252 WASTE OILS & LU	IBRICANTS			
<u>50</u>	6 of 14		ESE/265.1	205.3 / -3.54	S.L.H. TRANSPORT IN 9601 HWY 50 VAUGHAN ON L4H2B9	с.	GEN
Generator No Status: Approval Yea Contam. Faci MHSW Facilit SIC Code: SIC Descriptio	o: Irs: Ility: ty: on:	ON15333 Registere As of Dec	801 ed : 2018		PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin:	Canada	
<u>Detail(s)</u>							
Waste Class: Waste Class	Desc:		212 L Aliphatic solvents a	nd residues			
Waste Class: Waste Class I	Desc:		213 I Petroleum distillate	S			
Waste Class: Waste Class I	Desc:		213 T Petroleum distillate	s			
Waste Class: Waste Class I	Desc:		251 L Waste oils/sludges	(petroleum based)			
Waste Class:			252 L				

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Map Key	Numbe Record	r of Is	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Waste Class	Desc:		Waste crankcase o	ils and lubricants			
Waste Class: Waste Class	Desc:		252 T Waste crankcase o	ils and lubricants			
<u>50</u>	7 of 14		ESE/265.1	205.3 / -3.54	S.L.H. TRANSPORT II 9601 HWY 50 VAUGHAN ON L4H2E	NC. 39	GEN
Generator No	o:	ON1533	301		PO Box No:		
Status: Approval Yea Contam. Faci MHSW Facilit SIC Code: SIC Descripti	ars: ility: ty: ion:	2016 No No 484121,	488490 GENERAL FREIGH	IT TRUCKING. LC	Country: Choice of Contact: Co Admin: Phone No Admin: DNG DISTANCE. TRUCK-L0	Canada CO_OFFICIAL CATHY LEDINGHAM 905-893-4318 Ext. OAD. OTHER SUPPORT ACTIVITIES I	=OR
			ROAD TRANSPOR	RTATION	,	- ,	-
<u>Detail(s)</u>							
Waste Class: Waste Class	Desc:		212 ALIPHATIC SOLVE	ENTS			
Waste Class: Waste Class	Desc:		251 OIL SKIMMINGS &	SLUDGES			
Waste Class: Waste Class	Desc:		252 WASTE OILS & LU	IBRICANTS			
Waste Class: Waste Class	Desc:		213 PETROLEUM DIST	TILLATES			
<u>50</u>	8 of 14		ESE/265.1	205.3 / -3.54	S.L.H. TRANSPORT II 9601 HWY. 50 VAUGHAN ON L4H 21	NC. B9	GEN
Generator No	o:	ON1533	301		PO Box No:		
Status: Approval Yea	ars:	99			Country: Choice of Contact:		
Contam. Faci	ility:	00			Co Admin:		
MHSW Facilit SIC Code:	ty:	3251			Phone No Admin:		
SIC Descripti	ion:		VEHICLE ENGINE	IND.			
<u>50</u>	9 of 14		ESE/265.1	205.3 / -3.54	S.L.H. TRANSPORT II 9601 HWY 50 VAUGHAN ON L4H2E	NC. 39	GEN
Generator No	o:	ON1533	301		PO Box No:		
Status: Approval Yea	ars:	2012			Country: Choice of Contact:		
Contam. Faci	ility:				Co Admin: Bhono No Admin:		
SIC Code:	ly.	484121,	488490		Phone No Admin.		
SIC Descripti	ion:		General Freight Tru	ucking Long Distan	ce Truck-Load, Other Supp	ort Activities for Road Transportation	
<u>Detail(s)</u>							
Waste Class: Waste Class	Desc:		213 PETROLEUM DIST	TILLATES			
Waste Class:	-		251				

Map Key Number Record	r of Direction/ s Distance (m)	Elev/Diff (m)	Site	DB
Waste Class Desc:	OIL SKIMMINGS &	SLUDGES		
Waste Class: Waste Class Desc:	252 WASTE OILS & LUI	BRICANTS		
Waste Class: Waste Class Desc:	212 ALIPHATIC SOLVE	NTS		
50 10 of 14	ESE/265.1	205.3 / -3.54	S.L.H. TRANSPORT INC. 9601 HWY 50 VAUGHAN ON	GEN
Generator No: Status:	ON1533301		PO Box No: Country: Chains of Contract:	
Approval Years: Contam. Facility: MHSW Facility:	2013		Choice of Contact: Co Admin: Phone No Admin:	
SIC Code: SIC Description:	484121, 488490 GENERAL FREIGH ROAD TRANSPOR	T TRUCKING, LO TATION	ONG DISTANCE, TRUCK-LOAD, OTHER SUP	PORT ACTIVITIES FOR
<u>Detail(s)</u>				
Waste Class: Waste Class Desc:	213 PETROLEUM DIST	ILLATES		
Waste Class: Waste Class Desc:	212 ALIPHATIC SOLVE	NTS		
Waste Class: Waste Class Desc:	252 WASTE OILS & LUI	BRICANTS		
Waste Class: Waste Class Desc:	251 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: Approval Years:	2009		Country: Choice of Contact:	
Contam. Facility: MHSW Facility:			Co Admin: Phone No Admin:	
SIC Code: SIC Description:	484121, 488490 General Freight Tru	cking Long Dista	nce Truck-Load, Other Support Activities for Ro	pad Transportation
<u>Detail(s)</u>				
Waste Class: Waste Class Desc:	212 ALIPHATIC SOLVE	NTS		
Waste Class: Waste Class Desc:	213 PETROLEUM DIST	ILLATES		
Waste Class: Waste Class Desc:	251 OIL SKIMMINGS &	SLUDGES		
Waste Class: Waste Class Desc:	252 WASTE OILS & LUI	BRICANTS		

Map Key	Numbe Record	r of Direction/ s Distance (m	Elev/Diff) (m)	Site	DB
<u>50</u>	12 of 14	ESE/265.1	205.3 / -3.54	S.L.H. TRANSPORT II 9601 HWY 50 VAUGHAN ON L4H2B	IC. GEN 9
Generator N	o:	ON1533301		PO Box No:	
Approval Ye Contam. Fac MHSW Facili SIC Code: SIC Descript	ars: :ility: ity: tion:	02,03,04,05,06,07,08		Country: Choice of Contact: Co Admin: Phone No Admin:	
<u>Detail(s)</u>					
Waste Class Waste Class	: Desc:	212 ALIPHATIC SOL	VENTS		
Waste Class Waste Class	: Desc:	213 PETROLEUM DI	STILLATES		
Waste Class Waste Class	: Desc:	251 OIL SKIMMINGS	& SLUDGES		
Waste Class Waste Class	: Desc:	252 WASTE OILS & I	UBRICANTS		
<u>50</u>	13 of 14	ESE/265.1	205.3 / -3.54	S.L.H. TRANSPORT II 9601 HWY 50 VAUGHAN ON L4H2B	IC. <u>GEN</u> 9
Generator N	o:	ON1533301		PO Box No:	
Status: Approval Ye Contam. Fac MHSW Facili SIC Code: SIC Descript	ars: :ility: ity: tion:	2015 No 484121, 488490 GENERAL FREIO ROAD TRANSPO	GHT TRUCKING, LO DRTATION	Country: Choice of Contact: Co Admin: Phone No Admin: DNG DISTANCE, TRUCK-LO	Canada CO_OFFICIAL CATHY LEDINGHAM 905-893-4318 Ext. DAD, OTHER SUPPORT ACTIVITIES FOR
<u>Detail(s)</u>					
Waste Class Waste Class	: Desc:	251 OIL SKIMMINGS	& SLUDGES		
Waste Class Waste Class	: Desc:	212 ALIPHATIC SOL	VENTS		
Waste Class Waste Class	: Desc:	213 PETROLEUM DI	STILLATES		
Waste Class Waste Class	: Desc:	252 WASTE OILS & I	UBRICANTS		
<u>50</u>	14 of 14	ESE/265.1	205.3 / -3.54	S.L.H. TRANSPORT II 9601 HWY #50 VAUGHAN ON L4H 2E	IC. <u>GEN</u> 39
Generator N	o:	ON1533301		PO Box No:	
Status: Approval Ye Contam. Fac	ars: :ility: :+v:	00,01		Country: Choice of Contact: Co Admin: Phone No Admin:	
SIC Code:		3251		i none no Admin.	

Map Key	Number Records	of Direction/ Distance (m)	Elev/Diff (m)	Site	DB
SIC Descripti	ion:	VEHICLE ENGIN	E IND.		
<u>Detail(s)</u>					
Waste Class: Waste Class	Desc:	213 PETROLEUM DIS	STILLATES		
Waste Class: Waste Class	Desc:	251 OIL SKIMMINGS	& SLUDGES		
Waste Class: Waste Class	Desc:	252 WASTE OILS & L	UBRICANTS		
<u>51</u>	1 of 1	N/284.5	211.1/2.22	BOLTON ON	wwis
Well ID: Construction Primary Wate Sec. Water U Final Well Sta Water Type: Casing Mater Audit No: Tag: Construction Elevation (m) Elevation Rel Depth to Bed Well Depth: Overburden/I Pump Rate: Static Water Flow Rate: Clear/Cloudy	Date: se: se: atus: rial: Method: i liability: lrock: Bedrock: Level:):	7255951 Monitoring and Test Hole Monitoring and Test Hole Z208472 A187664		Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec: Contractor: Form Version: Owner: Street Name: County: Municipality: Site Info: Lot: Concession: Concession: Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability:	1/14/2016 Yes 7247 7 HWY 50 + COLERAINE RD. PEEL BRAMPTON CITY (TORONTO GORE)
Bore Hole Inf DP2BR: Spatial Statu: Code OB: Code OB Des Open Hole: Cluster Kind: Date Comple Remarks: Elevrc Desc: Location Sou Improvement Source Revis Supplier Con	formation : s: sc: ted: t Location S t Location M sion Comme nment:	1005867324 7/14/2015 Source: Method: ent:		Elevation: Elevrc: Zone: East83: North83: Org CS: UTMRC: UTMRC: UTMRC Desc: Location Method:	209.83348 17 606280 4852577 UTM83 4 margin of error : 30 m - 100 m wwr
<u>Overburden a</u> <u>Materials Inte</u> Formation ID Laver:	and Bedroc. erval :	<u>k</u> 1005934769 1			
Color: General Colo	or:	6 BROWN			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Mat1: Most Commo Mat2: Other Materia Mat3: Other Materia Formation To Formation En	n Material: als: p Depth: nd Depth: nd Depth UOM:	28 SAND 11 GRAVEL 01 FILL 0 1.5 ft			
<u>Overburden a</u> <u>Materials Inte</u>	and Bedrock erval				
Formation ID Layer: Color: General Colo Mat1: Most Commo Mat2: Other Materia Mat3: Other Materia Formation En Formation En	: n Material: als: op Depth: ad Depth: ad Depth UOM:	1005934772 4 2 GREY 06 SILT 28 SAND 05 CLAY 26 30 ft			
<u>Overburden a</u> Materials Inte	and Bedrock erval				
Formation ID Layer: Color: General Colo Mat1: Most Commo Mat2: Other Materia Mat3: Other Materia Formation En Formation En	: n Material: als: b Depth: nd Depth UOM:	1005934770 2 6 BROWN 05 CLAY 84 SILTY 81 SANDY 1.5 15 ft			
<u>Overburden a</u> Materials Inte	and Bedrock erval				
Formation ID Layer: Color: General Colo Mat1: Most Commo Mat2: Other Materia Mat3: Other Materia Formation To Formation En	: n Material: nls: nls: p Depth: nd Depth: nd Depth UOM:	1005934771 3 2 GREY 05 CLAY 84 SILTY 28 SAND 15 26 ft			
<u>Annular Spac</u>	e/Abandonment				

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Sealing Reco	ord				
Plug ID: Layer: Plug From: Plug To: Plug Depth U	IOM:	1005934780 1 0 19 ft			
<u>Method of Co</u> <u>Use</u>	onstruction & Well				
Method Cons Method Cons Method Cons Other Method	struction ID: struction Code: struction: d Construction:	2 Rotary (Convent.)			
<u>Pipe Informa</u>	<u>tion</u>				
Pipe ID: Casing No: Comment: Alt Name:		1005934768 0			
<u>Construction</u>	n Record - Casing				
Casing ID: Layer: Material: Open Hole of Depth From: Depth To: Casing Diam Casing Diam Casing Depth	r Material: eter: eter UOM: h UOM:	1005934775 1 5 PLASTIC 0 20 2 inch ft			
<u>Construction</u>	Record - Screen				
Screen ID: Layer: Slot: Screen Top I Screen Mater Screen Depti Screen Diam	Depth: Depth: rial: h UOM: eter UOM: eter:	1005934776 1 10 20 30 5 ft inch 2.125			
Water Details	5				
Water ID: Layer: Kind Code: Kind: Water Found Water Found	Depth: Depth UOM:	1005934774 1 8 Untested 27.5 ft			
Hole Diamete	<u>er</u>				
Hole ID: Diameter: Depth From:		1005934773 6 0			
210	erisinfo.com Env	vironmental Risk Info	ormation Service	98	Order No: 20190508200

Map Key	Numbe Record	er of Dir Is Dis	ection/ tance (m)	Elev/Diff (m)	Site	DB
Depth To: Hole Depth L Hole Diamete	UOM: er UOM:	30 ft inch				
<u>52</u>	1 of 1	N/28	7.9	211.5/2.67	Brampton ON	wwis
		7240076			Data Entry Status	
Construction Primary Wat Sec. Water U	n Date: er Use: Ise:	1249910			Data Entry Status: Data Src: Date Received: Selected Flag:	10/14/2015 Yes
Final Well St Water Type:	tatus:	Abandoned-Othe	er		Abandonment Rec: Contractor:	Yes 7472
Casing Mate Audit No:	rial:	Z214799			Form Version: Owner: Stroot Namo:	
rag: Construction	n Method:				Street Name:	COLERAINE PEFI
Elevation (m Elevation Re): eliability:				Municipality: Site Info:	BRAMPTON CITY (TORONTO GORE)
Depth to Bea Well Depth: Overburden	arock: /Bedrock:				Lot: Concession: Concession Name:	
Pump Rate: Static Water	Level:				Easting NAD83: Northing NAD83:	
Flowing (Y/N Flow Rate: Clear/Cloudy	l): v:				Zone: UTM Reliability:	
Bore Hole In	formation					
Bore Hole ID DP2BR:):	1005739566			Elevation: Elevrc:	209.871887
Spatial Statu Code OB:	ıs:				Zone: East83:	17 606276
Code OB De Open Hole: Cluster Kind	sc:				North83: Org CS: UTMPC:	4852579 UTM83
Date Comple Remarks:	eted:	7/24/2015			UTMRC Desc: Location Method:	margin of error : 30 m - 100 m wwr
Elevrc Desc: Location Sol Improvemen	: urce Date: of Location	Source:				
Improvemen Source Revi Supplier Cor	t Location sion Comn mment:	Method: nent:				
Annular Spa	ce/Abando	nment				
Plua ID.		10057	70451			
Layer:		1				
Plug From: Plug To:		0 18.2				
Plug Depth l	JOM:	m				
Pipe Informa	ation					
Pipe ID:		10057	70443			
<i>Casing No: Comment: Alt Name:</i>		0				
211	erisinfo.c	om Environmen	tal Risk Info	ormation Servic	es	Order No: 20190508200

Construction	Record -	 Casing
---------------------	----------	----------------------------

Casing ID:	1005770448
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:	1005770449
Layer:	
Slot:	
Screen Top Depth:	
Screen End Depth:	
Screen Material:	
Screen Depth UOM:	m
Screen Diameter UOM:	cm
Screen Diameter:	

Hole Diameter

1005770446
5.2
2
18.2
m
cm

Hole Diameter

Hole ID:	1005770445
Diameter:	21
Depth From:	0
Depth To:	2
Hole Depth UOM:	m
Hole Diameter UOM:	cm

SE/292.1	204.9 / -4.00	SLH TRANSPORT INC 9601 HWY 50 VAUGHAN ON L4H 2B9	FST
11609343			
FS Liquid Fuel Tank			
Diesel			
Active			
100000			
Steel			
Painted			
Double Wall Horizor	ntal AST		
2000			
Fuels Safety Private	Fuel Outlet - Self Ser	rve	
FS Liquid Fuel Tank			
	SE/292.1 11609343 FS Liquid Fuel Tank Diesel Active 100000 Steel Painted Double Wall Horizor 2000 Fuels Safety Private FS Liquid Fuel Tank	SE/292.1204.9 / -4.0011609343FS Liquid Fuel TankDieselActive100000SteelPaintedDouble Wall Horizontal AST2000Fuels Safety Private Fuel Outlet - Self SerFS Liquid Fuel Tank	SE/292.1204.9 / -4.00SLH TRANSPORT INC 9601 HWY 50 VAUGHAN ON L4H 2B911609343FS Liquid Fuel Tank Diesel Active 100000 Steel Painted Double Wall Horizontal AST 2000 Fuels Safety Private Fuel Outlet - Self Serve FS Liquid Fuel Tank

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>53</u>	2 of 4	SE/292.1	204.9/-4.00	SLH TRANSPORT INC 9601 HWY 50 VAUGHAN ON	FSTH
License Issu	e Date:	10/13/2000			
Tank Status:		Licensed			
Tank Status	As Of:	August 2007			
Example 7	/pe: 	Gasoline Station - S	Self Serve		
Dotoilo					
<u>Status:</u>		Active			
Year of Insta	llation:	2000			
Corrosion P	rotection:	400000			
Capacity: Tank Fuel Tu	ne.	100000 Liquid Fuel Double '	Wall AST - Diesel		
runn ruci ry	pc.				
<u>53</u>	3 of 4	SE/292.1	204.9 / -4.00	SLH TRANSPORT INC 9601 HWY 50 VAUGHAN ON	FSTH
License Issu	e Date:	10/13/2000			
Tank Status:		Licensed			
Tank Status	As Of: (ne [.]	December 2008 Private Fuel Outlet			
Facility Type		Gasoline Station - S	Self Serve		
Details					
Status:	llation	Active			
Year of Insta Corrosion Pi	nation: rotection	2000			
Capacity:		100000			
Tank Fuel Ty	vpe:	Liquid Fuel Double	Wall AST - Diesel		
<u>53</u>	4 of 4	SE/292.1	204.9/-4.00	9601 HWY 50, WOODBRIDGE ON	INC
Incident No:		1532778			
Incident ID: Attribute Cat	tegory:	FS-Perform L1 Incid	dent Insp		
Status Code. Incident Loc	: ation:	9601 HWY 50, WO	ODBRIDGE - LEAK		
Drainage Sy: Sub Surface Aff. Prop. Us Contam. Mig Contact Natu Near Body o Approx. Qua Equipment M Serial No: Residential A Commercial Industrial Ap Institutional Venting Type Vent Connect Vent Chimne Pipeline Typ Pipeline Invo Pipe Materia	stem: Contam.: ee Water: rated: iral Env.: f Water: nt. Rel.: Nodel: App. Type: App. Type: App. Type: App. Type: e: tor Mater: e: blved: l:				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Depth Grou Regulator Lo Regulator Ty Operation Ph Liquid Prop Liquid Prop Equipment T Cylinder Cap Cylinder Gap Tank Capaci Fuels Occur Fuel Type In Date of Occu Time of Occu Occur Insp S Any Health I	Accords ad Cover: ocation: ype: Make: Model: Serial No: Sype: oac. Units: verial Type: ty: ence Type: volved: urence: Start Date: mpact:	Leak Diesel 2014/11/30 00:00:00 NULL 2014/12/01 00:00:00 No	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Any Environ Was Service Was Propert Operation Ty Enforcemen Prc Escalati Task No: Notes:	mental Impact: Interrupted: y Damaged: rpe Involved: t Policy: on Required:	No No Private Fuel Outlet NULL NULL 5276996			
Occurence N Tank Materia Tank Storag Tank Locatio Pump Flow N Liquid Prop	larrative: Il Type: e Type: on Type: Rate Capac: Notes:	SPILL DUE TO CHE	CK VALVE A/G ⁻	TANK	
<u>54</u>	1 of 1	SE/298.0	204.9 / -4.00	Brampton ON	wwis
Well ID:	72499	971		Data Entry Status:	

Well ID: Construction Date: Primary Water Use: Sec. Water Use: Final Well Status: Water Type: Casing Material:	7249971 Abandoned-Other	Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec: Contractor: Form Version:	10/14/2015 Yes 7472 7
Audit No:	Z214797	Owner:	
Tag:		Street Name:	HWY 50 APPROX. 860M NORTH OF RUTHERFORD
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:		County: Municipality: Site Info: Lot: Concession: Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability:	PEEL BRAMPTON CITY (TORONTO GORE)
Bore Hole Information			
Bore Hole ID: DP2BR:	1005739551	Elevation: Elevrc:	207.990554
Spatial Status:		Zone:	17

Order No: 20190508200

Map Key Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Code OB: Code OB Desc: Open Hole: Cluster Kind: Date Completed: 7/24/20 Remarks: Elevrc Desc: Location Source Date: Improvement Location Source: Improvement Location Method: Source Revision Comment: Supplier Comment:	15		East83: North83: Org CS: UTMRC: UTMRC Desc: Location Method:	606703 4851637 UTM83 4 margin of error : 30 m - 100 m wwr	
<u>Annular Space/Abandonment</u> Sealing Record					
Plug ID: Layer: Plug From: Plug To: Plug Depth UOM:	1005770385 1 0 13.8 m				
Pipe Information					
Pipe ID: Casing No: Comment: Alt Name:	1005770377 0				
Construction Record - Casing					
Casing ID: Layer: Material: Open Hole or Material: Depth From: Depth To: Casing Diameter:	1005770382				
Casing Diameter UOM: Casing Depth UOM:	cm m				
Construction Record - Screen					
Screen ID: Layer: Slot: Screen Top Depth: Screen End Depth: Screen Material:	1005770383				
Screen Depth UOM: Screen Diameter UOM: Screen Diameter:	m cm				
Hole Diameter					
Hole ID: Diameter: Depth From: Depth To: Hole Depth UOM: Hole Diameter UOM:	1005770380 5.2 2 13.8 m cm				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Hole Diamete	er				
Hole ID: Diameter: Depth From: Depth To: Hole Depth U Hole Diamete	IOM: er UOM:	1005770379 21 0 2 m 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	
СА	VAUGHAN TOWN RUTHERFORD RD.	RUTHERFORD RD.	VAUGHAN TOWN ON	
СА	VAUGHAN TOWN	RUTHERFORD ROAD	VAUGHAN TOWN ON	
СА	VAUGHAN TOWN	RUTHERFORD ROAD	VAUGHAN TOWN ON	
СА	VAUGHAN TOWN	RUTHERFORD RD.	VAUGHAN TOWN ON	
СА	VAUGHAN TOWN	RUTHERFORD ROAD	VAUGHAN TOWN ON	
СА	VAUGHAN CITY	SWM - RUTHERFORD ROAD	VAUGHAN CITY ON	
СА	SOUTH MAPLE CREEK LANDS LTD.	RUTHERFORD RD.NGHB.2 MAPLE COM	VAUGHAN TOWN ON	
СА	SOUTH MAPLE CREEK LANDS LTD.	RUTHERFORD RD.NGHB.2 MAPLE COM	VAUGHAN TOWN ON	
СА	LONGMOOR BUILDING CO.	RUTHERFORD RD. LONGMOOR IND.	BRAMPTON CITY ON	
CA	SOUTH MAPLE CREEK LANDS LTD.	N. RUTHERFORD RD. NEIGHB. 2	VAUGHAN TOWN ON	
СА	IMPERIAL OIL	RUTHERFORD ST., ESSO GAS STA.	VAUGHAN TOWN ON	
СА	Vaughan Distribution Centre	Part Lots 16-19, Concession 10	Vaughan ON	
СА	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. INCPT.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	
СА	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></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></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

<u>Site:</u> Lot 18 Con 12	Peel ON				Database: AAGR
Type: Region/County: Township: Concession: Lot: Size (ha): Landuse: Comments:		Wellington Peel 12 18			
<u>Site:</u> Lot 18 Con 12	Peel ON				Database: AAGR
Type: Region/County: Township: Concession: Lot: Size (ha): Landuse: Comments:		Wellington Peel 12 18 rehabilitated			
<u>Site:</u> Lot 18 Con 12	Peel ON				Database: AAGR
Type: Region/County: Township: Concession: Lot: Size (ha): Landuse: Comments:		Pit Wellington Peel 12 18 2 appears hummocky with some reveget	ation		
<u>Site:</u> Edwin Horst Lot W1/2 of 19,	Con 12 F	PEEL ON			Database: AGR
ID: Current Status: Status Date: Effective Date: Approval Type: Operation Type: Max Annual Tonnage: Unlimited Tonnage:	5661 Class B L Pit 20000	Licence	Location Name: Licenced Area (ha): Extraction Area: Authority Type: Section: Municipality: County: District:	MAPLETON TP WELLINGTON CO	
<u>Site:</u> VAUGHAN TOV RUTHERFORD	VN RUTH RD. VAU	ERFORD RD. GHAN TOWN ON			Database: CA
Certificate #: Application Year:		7-0751-88- 88			

Issue Date: Approval Type: Status: Application Type: Client Name: **Client Address:** Client City: **Client Postal Code: Project Description:** Contaminants: **Emission Control:**

11/28/1988 Municipal water Approved

7-0551-89-

Approved

Municipal water

89 5/23/1989

Site: VAUGHAN TOWN RUTHERFORD ROAD VAUGHAN TOWN ON

Certificate #: Application Year: Issue Date: Approval Type: Status: Application Type: Client Name: Client Address: Client City: **Client Postal Code: Project Description:** Contaminants: **Emission Control:**

VAUGHAN TOWN Site: RUTHERFORD ROAD VAUGHAN TOWN ON

Certificate #: Application Year: Issue Date: Approval Type: Status: Application Type: Client Name: **Client Address:** Client City: Client Postal Code: **Project Description:** Contaminants: **Emission Control:**

7-1753-87-87 12/17/1987 Municipal water Approved

Database: CA



VAUGHAN TOWN Site: RUTHERFORD RD. VAUGHAN TOWN ON

Certificate #: Application Year: Issue Date: Approval Type: Status: Application Type: Client Name: Client Address: Client City: **Client Postal Code: Project Description:** Contaminants: **Emission Control:**

87 8/24/1987 Municipal sewage Cancelled

3-1505-87-

Database: CA

<u>Site:</u> VAUGHAN TOWN RUTHERFORD ROAD VAUGHAN TOWN ON

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

<u>Site:</u> VAUGHAN CITY SWM - RUTHERFORD ROAD VAUGHAN CITY ON

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

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

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

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

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

223





Certificate #: Application Year: Issue Date: Approval Type: Status: Application Type: Client Name: Client Address: Client City: Client Postal Code: Project Description: Contaminants: Emission Control:

3-0336-87-87 3/27/1987 Municipal sewage Approved

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

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

Site: IMPERIAL OIL

RUTHERFORD ST., ESSO GAS STA. VAUGHAN TOWN ON

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

<u>Site:</u> Vaughan Distribution Centre Part Lots 16-19, Concession 10 Vaughan ON

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

CA

Database:

CA

Database: CA

Database: CA



Approval Type: Status: Application Type: Client Name: Client Address: Client City: Client Postal Code: Project Description:

Contaminants: Emission Control:

Municipal & Private sewage Approved New Certificate of Approval Sears Canada Inc. 222 Jarvis Street Toronto M5B 2B8 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.

<u>Site:</u> LONGMOOR BUILDING CO. RUTHERFORD RD. LONGMOOR IND. BRAMPTON CITY ON

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

<u>Site:</u> The Regional Municipality of Peel Clarkway Dr between Castlemore Rd and Countryside Dr, Brampton ON

Certificate #: Application Year: Issue Date: Approval Type: Status: Application Type: Client Name: Client Name: Client Address: Client City: Client Postal Code: Project Description: Contaminants: Emission Control: 6393-8DGKHP 2011 2/8/2011 Municipal and Private Sewage Works Approved Database: CA

Database: CA

<u>Site:</u> The Corporation of the City of Brampton From The Gore Road to Highway 50 Brampton ON

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

225

<u>Site:</u> The Corporation of the City of Brampton From The Gore Road to Highway 50 Brampton ON

Certificate #: Application Year: Issue Date: Approval Type: Status: Application Type: Client Name: Client Address: Client City: Client Postal Code: Project Description: Contaminants: Emission Control: 6949-8A9KGR 2010 10/19/2010 Municipal and Private Sewage Works Approved

<u>Site:</u> Bolton/Brampton Trunk Sewer Highway No. 50 Brampton ON

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

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

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

<u>Site:</u> FIELDGATE DEVELOPMENT AND CONSTRUCTION RUTHERFORD RD. VAUGHAN TOWN ON

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



Database: CA

Database:

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

7-0003-95-

Approved

Municipal water

95 1/12/1995

<u>Site:</u> CITY OF VAUGHAN RUTHERFORD ROAD VAUGHAN CITY ON

Certificate #: Application Year: Issue Date: Approval Type: Status: Application Type: Client Name: Client Name: Client Address: Client City: Client Postal Code: Project Description: Contaminants: Emission Control:

<u>Site:</u> ANNA LEONNE RUTHERFORD RD. VAUGHAN TOWN ON

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

Database:

CA

Database:

<u>Site:</u> ANNA LEONNE RUTHERFORD RD. VAUGHAN TOWN ON

Certificate #:

7-0395-87-

erisinfo.com | Environmental Risk Information Services



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

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

99-0022-0138

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

<u>Site:</u> PUROLATOR COURIER LTD. ON

ON

File No:

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

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

Location:

Ministry District:

Region:

Background: URL:

Additional Details

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

228

Database: CA

CENTRAL REGION METRO

Database:

CONV

Order No: 20190508200

<u>Site:</u> S.R. TRUCKING ON	G CO. LTD.		Database: CONV
File No: Crown Brief No: Court Location: Publication City: Publication Title: Act: Act:	99-0204-0289	Location: Region: Ministry District:	CENTRAL REGION METRO
Act(s): First Matter: Second Matter: Investigation 1: Investigation 2: Penalty Imposed: Description: Background: URL:	OPERATE HEAVY DIESEL FUELLEI	D MOTOR VEHICLE THAT	CONTRAVENES EMISSION STANDARDS
Additional Details			
Publication Date: Count: Act: Regulation: Section: Act/Regulation/Section: Date of Offence: Date of Conviction:	1 EPA 361/98 12(5) EPA-361/98-12(5)		
Date Charged: Charge Disposition: Fine: Synopsis:	1/14/00 SUSPENDED SENTENCE \$425.00		
<u>Site:</u> SIM-TRAN (ON ON	TARIO) INC.		Database: CONV
File No: Crown Brief No: Court Location: Publication City: Publication Title:	98-0096-0164	Location: Region: Ministry District:	CENTRAL REGION METRO
Act: Act(s): First Matter: Second Matter: Investigation 1: Investigation 2: Penalty Imposed: Description: Background: URL:	PERMIT THE OPERATION OF A HE	AVY DIESEL-FUELLED MC	DTOR VEHICLE THAT
Additional Details			
Publication Date: Count: Act: Regulation: Section: Act/Regulation/Section: Date of Offence: Date of Conviction:	1 EPA 361/98 12(5) EPA-361/98- 12(5)		
Date Charged: Charge Disposition: Fine:	1/21/99 SUSPENDED SENTENCE \$250.00		

229

<u>Site:</u>	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	Database: EBR

EBR Registry No:	IA02E0597	Year:	2002
Ministry Ref No:	S46306004	Act 1:	
Notice Type:	Instrument Decision	Act 2:	
Notice Stage:	800484701	Comment Period	
Notice Date:	September 03, 2002	Section:	
Proposal Date:	June 13, 2002	Site Location Ma	D:
Decision Posted:		-	
Posted By:			
Company Name:	Artibus Development Co	orporation	
Off Instrument Name:			
Instrument Type:	(EPA s. 46) - Approval for use of a former waste disposal site.		
Proponent Name:			
Proponent Address:	c/o O'Neill, Browning, P	ineu, 372 Bay Street, 302, Toronto	Ontario, M5H 2W9
Site Address:			
Location Other:			
URL:			

Site Location Details:

located on the west side of Weston Road and south of Major Mackenzie Drive in Lot 20, Concession 6 CITY OF VAUGHAN

<u>Site:</u> Berkshire Glao	le Estates Inc. & Bay-Yonge Custom Builders In	с.	Database:
Clarkway Drive	9 Brampton ON L4K 5P5		ECA
Approval No: Approval Date: Status: Record Type: Link Source: SWP Area Name: Approval Type: Project Type: Address: Full Address: Full PDF Link:	7200-95BKGG 2013-03-01 Approved ECA IDS ECA-MUNICIPAL AND PRIVATE SEW MUNICIPAL AND PRIVATE SEWAGE Clarkway Drive https://www.accessenvironment.ene.go	MOE District: City: Longitude: Latitude: Geometry X: Geometry Y: /AGE WORKS WORKS	
<u>Site:</u> Block 33 West	Properties Inc.		Database:
Part of Lot 20 a	and 21 Vaughan ON L3R 4T5		ECA
Approval No: Approval Date: Status: Record Type: Link Source: SWP Area Name: Approval Type: Project Type: Address: Full Address: Full PDF Link:	4717-AA3MV4 2016-05-18 Approved ECA IDS ECA-MUNICIPAL AND PRIVATE SEW MUNICIPAL AND PRIVATE SEWAGE Part of Lot 20 and 21 https://www.accessenvironment.ene.go	MOE District: City: Longitude: Latitude: Geometry X: Geometry Y: /AGE WORKS WORKS wORKS	
<u>Site:</u> The Corporation	on of the City of Brampton		Database:
From The Gore	Road to Highway 50 Brampton ON L6Y 5T1		ECA
Approval No:	6949-8A9KGR	MOE District:	
Approval Date:	2010-10-19	City:	
230 erisinfo.c	om Environmental Risk Information Services	3	Order No: 20190508200

Approved Longitude: Status: Latitude: ECA Record Type: IDS Link Source: Geometry X: Geometry Y: SWP Area Name: Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS MUNICIPAL AND PRIVATE SEWAGE WORKS Project Type: 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 Site: The Corporation of the City of Brampton Database: **ECA** From The Gore Road to Highway 50 Brampton ON L6Y 5T1 Approval No: 7097-86EPGY **MOE District:** 2010-07-21 Approval Date: City: Status: Revoked and/or Replaced Longitude: Record Type: ECA Latitude: IDS Link Source: Geometry X: SWP Area Name: Geometry Y: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS Approval Type:

MUNICIPAL AND PRIVATE SEWAGE WORKS Project Type: From The Gore Road to Highway 50 Full Address: Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/0297-856JXP-14.pdf

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

Approval No:	6393-8DGKHP	MOE District:	
Approval Date:	2011-02-08	City:	
Status:	Approved	Longitude:	
Record Type:	ECA	Latitude:	
Link Source:	IDS	Geometry X:	
SWP Area Name:		Geometry Y:	
Approval Type:	ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS		
Project Type:	MUNICIPAL AND P	RIVATE SEWAGE WORKS	
Address:	Clarkway Dr betwee	Clarkway Dr between Castlemore Rd and Countryside Dr,	
Full Address:			
Full PDF Link:	https://www.accesse	nvironment.ene.gov.on.ca/instruments/3007-8CFK8S-14.pdf	

Site:

Address:

Rutherford Road Vaughan ON

20060525020 Order No: Status: С 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: Municipality: Client Prov/State: Search Radius (km): Х: Y:

Rutherford Rd and Bathurst St York ON 0.25 -79.465661 43.845442

Site:

231

Highway 50 - no municipal address Bolton ON

Order No:	20041222004	Nearest Intersection:	
Status:	С	Municipality:	
Report Type:	Complete Report	Client Prov/State:	ON
Report Date:	1/3/05	Search Radius (km):	0.5
Date Received:	12/22/04	X:	-79.723944
Previous Site Name:		Υ:	43.8557
Lot/Building Size:			

Database: EHS

Database: EHS

Database: **ECA**

<u>Site:</u> REGIONAL MUNICIPALITY OF YORK TONY PULLA RUTHERFORD RD MAINTENANCE DEPOT MAPLE ON

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

Site:

LOT 13, CONCESSION 10 BRAMPTON ON

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 Industry Stakeholder (Licensee/Registration/Certificate Holder, Facility Owner, etc.) Affiliation: County Name: Halton Approx. Quant. Rel: Nearby body of water: Enter Drainage Syst.: Approx. Quant. Unit: Environmental Impact:

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

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

SWP Area Name:

Operator Box:

416 8570416

Order No: 20190508200

Database: EXP

HINC

Database:



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

Detail Licence No: Licence No: Status: Approval Date:	23-01-09418-0 09418	Operator Box: Operator Class: Operator No: Operator Type:	
Report Source:	Legacy Licenses (Excluding TS)	Oper Area Code:	416
Licence Type:	Limited Vendor	Oper Phone No:	8570416
Licence Type Code:	23	Operator Ext:	
Licence Class:	01	Operator Lot:	
Licence Control:	0	Oper Concession:	
Latitude:		Operator Region:	3
Longitude:		Operator District:	1
Lot:		Operator County:	49
Concession:		Op Municipality:	
Region:	3	Post Office Box:	
District:	1	MOE District:	
County:	49	SWP Area Name:	
Trade Name:			
PDF LINK:			

<u>Site:</u>	ite: SONNY'S ESSO 17200 50 HWY BRAMPTON ON LON 1P0		Database: RST
Headco Headco Phone: List Nar Descrip	de: de Desc: me: tion:	1186800 Service Stations-Gasoline, Oil & Natural Gas 9058800086	
<u>Site:</u>	CALEDON SAND & GRA HIGHWAY 50 RR 1 BOL	AVEL INC. .TON ON L7E 5Z7	Database: SCT
Establis	shed:	1966	
Plant Si	ize (ft²):	0	
Employ	ment:	47	
<u>Details</u> Descrip SIC/NAI	<u>s</u> ition: ICS Code:	MINERALS AND EARTHS, GROUND OR OTHERWISE TREATED 3295	
<u>Site:</u>	James Dick Concrete Ag Hwy 50 Bolton ON L7E	ggregates - Div. of James Dick Construction Ltd. 5T4	Database: SCT
<u>Site:</u> Establis	James Dick Concrete Ag Hwy 50 Bolton ON L7E shed:	ggregates - Div. of James Dick Construction Ltd. 5T4 1964	Database: SCT
<u>Site:</u> Establis Plant Si	James Dick Concrete Ag Hwy 50 Bolton ON L7E shed: ize (ft²):	ggregates - Div. of James Dick Construction Ltd. 574 1964 10000	Database: SCT
<u>Site:</u> Establis Plant Si Employ	James Dick Concrete Ag Hwy 50 Bolton ON L7E shed: ize (ft²): ment:	ggregates - Div. of James Dick Construction Ltd. 574 1964 10000 250	Database: SCT
<u>Site:</u> Establis Plant Si Employ <u>Details</u> Descrip SIC/NAI	James Dick Concrete Ag Hwy 50 Bolton ON L7E shed: ize (ft ²): ment: <u>S</u> ttion: ICS Code:	ggregates - Div. of James Dick Construction Ltd. 574 1964 10000 250 All Other Non-Metallic Mineral Product Manufacturing 327990	Database: SCT
<u>Site:</u> Establis Plant Si Employ <u>Details</u> Descrip SIC/NAI <u>Site:</u>	James Dick Concrete Ag Hwy 50 Bolton ON L7E shed: ize (ft²): ment: <u>S</u> titon: ICS Code: JAMES DICK CONCRET HWY 50 BOLTON ON L	ggregates - Div. of James Dick Construction Ltd. 574 1964 10000 250 All Other Non-Metallic Mineral Product Manufacturing 327990 TE AGGREGATES .7E 574	Database: SCT Database: SCT
<u>Site:</u> Establis Plant Si Employ <u>Details</u> Descrip SIC/NAI <u>Site:</u>	James Dick Concrete Ag Hwy 50 Bolton ON L7E shed: ize (ft²): ment: <u>S</u> otion: ICS Code: JAMES DICK CONCRET HWY 50 BOLTON ON L	ggregates - Div. of James Dick Construction Ltd. 574 1964 10000 250 All Other Non-Metallic Mineral Product Manufacturing 327990 TE AGGREGATES 7E 574 1964	Database: SCT Database: SCT
<u>Site:</u> Establis Plant Si Employ <u>Details</u> Descrip SIC/NAI <u>Site:</u> Establis Plant Si	James Dick Concrete Ag Hwy 50 Bolton ON L7E shed: ize (ft²): ment: <u>S</u> otion: ICS Code: JAMES DICK CONCRET HWY 50 BOLTON ON L shed: ize (ft²):	ggregates - Div. of James Dick Construction Ltd. 574 1964 10000 250 All Other Non-Metallic Mineral Product Manufacturing 327990 TE AGGREGATES 7E 574 1964 10000	Database: SCT Database: SCT

<u>--Details--</u> Description: SIC/NAICS Code:

Ready-Mix Concrete Manufacturing 327320

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

<u>Site:</u>	Caledon Sand & Gravel I Hwy 50 Bolton ON L7E	nc. 5Z7	Database: SCT
Establis Plant Si	shed: ize (ft²):	1966	
Employ	ment:	47	
<u>Details</u> Descrip SIC/NAI	<u>s</u> ttion: ICS Code:	All Other Non-Metallic Mineral Product Manufacturing 327990	
Descrip SIC/NAI	tion: ICS Code:	Other Specialty-Line Building Supplies Wholesaler-Distributors 416390	

Site:

North of Rutherford Vaughan ON

Ref No: 4554-78LQU6 Discharger Report: Site No: Material Group: Oil Incident Dt: Health/Env Conseq: Client Type: Year: Incident Cause: Other Transport Accident Sector Type: Other Motor Vehicle Incident Event: Agency Involved: Contaminant Code: Nearest Watercourse: 13 DIESEL FUEL Contaminant Name: Site Address: Contaminant Limit 1: Site District Office: Contam Limit Freq 1: Site Postal Code: Site Region: Contaminant UN No 1: Environment Impact: Not Anticipated Site Municipality: Vaughan Nature of Impact: Soil Contamination; Surface Water Pollution Site Lot: Land & Water Site Conc: **Receiving Medium:** Receiving Env: Northing: MOE Response: Easting: Dt MOE Arvl on Scn: Site Geo Ref Accu: MOE Reported Dt: 11/3/2007 Site Map Datum: Dt Document Closed: SAC Action Class: Incident Reason: Unknown - Reason not determined Source Type: Hwy 50<UNOFFICIAL> Site Name: Site County/District: Site Geo Ref Meth: MVA: Hwy 50, 150 L diesel to ditch, cleaning Incident Summary: 150 L Contaminant Qty:

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

Ref No: Site No: Incident Dt: Year:	7457-8B544C	Discharger Report: Material Group: Health/Env Conseq: Client Type:	
Incident Cause: Incident Event:	Other Transport Accident	Sector Type: Agency Involved:	Transport Truck
Contaminant Code:	13	Nearest Watercourse:	
Contaminant Name:	DIESEL FUEL	Site Address:	
Contaminant Limit 1:		Site District Office:	
Contam Limit Freq 1:		Site Postal Code:	

234

Database: SPL

Database: SPL Contaminant UN No 1: Site Region: Site Municipality: Environment Impact: Not Anticipated Soil Contamination Site Lot: Nature of Impact: Site Conc: **Receiving Medium:** Receiving Env: Northing: MOE Response: No Field Response Easting: Dt MOE Arvl on Scn: Site Geo Ref Accu: MOE Reported Dt: 11/11/2010 Site Map Datum: Dt Document Closed: SAC Action Class: Highway Spills (usually highway accidents) Incident Reason: Error- Operator error Source Type: Site Name: highway<UNOFFICIAL> Site County/District: Site Geo Ref Meth: TT: diesel to road; ~ 283 L; cntnd & clng Incident Summary: Contaminant Qty: 283 L

<u>Site:</u> Canadian Pacific Railway Company mile 15.3 Mac Tier Sub Vaughan ON

Ref No: Site No: Incident Dt: Year:	6140-9MXE45 NA 2014/08/13	Discharger Report: Material Group: Health/Env Conseq: Client Type:	
Incident Cause: Incident Event:	Leak/Break	Sector Type: Agency Involved:	Motor Vehicle
Contaminant Code: Contaminant Name: Contaminant Limit 1	15 HYDRAULIC OIL	Nearest Watercourse: Site Address: Site District Office:	mile 15.3 Mac Tier Sub
Contam Limit Freq 1: Contaminant UN No 1:		Site Postal Code: Site Region:	
Environment Impact: Nature of Impact: Receiving Medium:	Not Anticipated Other Impact(s)	Site Municipality: Site Lot: Site Conc:	Vaughan
Receiving Env: MOE Response:		Northing: Easting:	
Dt MOE Arvl on Scn: MOE Reported Dt: Dt Document Closed:	2014/08/13	Site Geo Ref Accu: Site Map Datum: SAC Action Class:	l and Spills
Incident Reason:	Material Failure - Poor Design/Substandard Material	Source Type:	
Site Name: Site County/District: Site Goo Bof Moth:	Vaughan Yard <unofficial></unofficial>		
Incident Summary: Contaminant Qty:	CP Rail: 3 L hydraulic oil to concrete 3 L	pad	

<u>Site:</u> LODWICK TRANSPORT HWY 50 JUST SOUTH OF BOLTON TRANSPORT TRUCK (CARGO) PEEL R.M. ON

Ref No: Site No:	39013	Discharger Report: Material Group:	
Incident Dt:	8/9/1990	Health/Env Conseq:	
Incident Cause:	OTHER TRANSPORTATION ACCIDENT	Sector Type:	
Contaminant Code:		Nearest Watercourse:	
Contaminant Name: Contaminant Limit 1:		Site Address: Site District Office:	
Contam Limit Freq 1: Contaminant UN No 1:		Site Postal Code: Site Region:	
Environment Impact: Nature of Impact:	POSSIBLE	Site Municipality: Site Lot:	21000
Receiving Medium:	LAND	Site Conc: Northing:	
MOE Response: Dt MOE Arvl on Scn:		Easting: Site Geo Ref Accu:	OPP, FD, PEEL R.M.

235

Database:

SPL

Database:

SPL

MOE Reported Dt: Dt Document Closed: Incident Reason: Site Name: Site County/District: Site Geo Ref Meth: Incident Summary: Contaminant Qty: 8/9/1990

UNKNOWN

Site Map Datum: SAC Action Class: Source Type:

LODWICK TRANSPORT - 150 L CAR PAINT TO DITCH.

<u>Site:</u> UNKNOWN HWY 50 BETWEEN HWY 9 AND HWY 7 BRAMPTON CITY ON

Discharger Report: Ref No: 229955 Site No: Material Group: 6/27/2002 Incident Dt: Health/Env Conseq: Client Type: Year: Incident Cause: OTHER CONTAINER LEAK Sector Type: **REGION OF PEEL** 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: POSSIBLE 21101 Environment Impact: Site Municipality: Nature of Impact: Soil contamination Site Lot: Receiving Medium: LAND Site Conc: Receiving Env: Northing: MOE Response: Easting: Dt MOE Arvl on Scn: Site Geo Ref Accu: MOE Reported Dt: 6/27/2002 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: TRAIL OF VEGETABLE BASED OIL ON ASPHALT RD (HWY50) MOSTLY ABSORBED, SANDED Contaminant Qty:

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

78951 Ref No: **Discharger Report:** Material Group: Site No: Incident Dt: 10/2/1992 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: NOT ANTICIPATED Site Municipality: 21101 Nature of Impact: Site Lot: LAND Site Conc: Receiving Medium: Receiving Env: Northing: MOE Response: Easting: OPP, PEEL REG, FD, MTO. Dt MOE Arvl on Scn: Site Geo Ref Accu: 10/2/1992 Site Map Datum: MOE Reported Dt: **Dt Document Closed:** SAC Action Class: Incident Reason: ERROR Source Type: 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:

236



Database: SPL

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

Database: SPL

Database:

SPL

Ref No: Site No: Incident Dt: Year: Incident Cause: Incident Event: Contaminant Code: Contaminant Name: Contaminant Name: Contaminant Limit 1: Contam Limit Freq 1: Contaminant UN No 1: Environment Impact: Nature of Impact: Nature of Impact: Receiving Medium: Receiving Medium: Receiving Medium: Receiving Medium: Receiving Medium: MOE Response: Dt MOE ArvI on Scn: MOE Resported Dt: Dt Document Closed: Incident Reason: Site Name: Site County/District: Site Geo Ref Meth:	38095 7/23/1990 PIPE/HOSE LEAK CONFIRMED Soil contamination LAND 7/23/1990 CORROSION	Discharger Report: Material Group: Health/Env Conseq: Client Type: Sector Type: Agency Involved: Nearest Watercourse: Site Address: Site District Office: Site Postal Code: Site Postal Code: Site Region: Site Region: Site Municipality: Site Lot: Site Conc: Northing: Easting: Site Geo Ref Accu: Site Geo Ref Accu: Site Map Datum: SAC Action Class: Source Type:	21000
Site Geo Ref Meth: Incident Summary: Contaminant Qty:	FURNACE OIL TO GROUND		

Site: TMT Freight Systems

West side of Hwy 50 1 km North of Rutherford Rd Brampton ON

Ref No: 1611-9QXLBE Discharger Report: Site No: Material Group: NA Incident Dt: 2014/11/17 Health/Env Conseq: Year: Client Type: Incident Cause: Collision/Accident Sector Type: Truck - Only Saddle Tanks Agency Involved: Incident Event: Nearest Watercourse: Contaminant Code: 13 Contaminant Name: DIESEL FUEL Site Address: West side of Hwy 50 1 km North of Rutherford Rd Contaminant Limit 1: Site District Office: Contam Limit Freq 1: Site Postal Code: Site Region: Contaminant UN No 1: Environment Impact: Site Municipality: Brampton Nature of Impact: Land Site Lot: Receiving Medium: Site Conc: **Receiving Env:** Northing: 4852535 606558 MOE Response: Y Easting: Dt MOE Arvl on Scn: 2014/11/18 Site Geo Ref Accu: 2014/11/17 MOE Reported Dt: Site Map Datum: Dt Document Closed: SAC Action Class: Primary Assessment of Incident Incident Reason: **Operator/Human Error** Source Type: Southbound lane and Road-side ditch<UNOFFICIAL> Site Name: Site County/District: Site Geo Ref Meth: Incident Summary: TMT Freight Systems, ~250L dsl to ditch. contained Contaminant Qty: 250 L

<u>Site:</u> Mancuso Paving Limited SB Hwy 50 at Clarkway Dr Brampton ON



Ref No:

6361-AH4JKY

Discharger Report:

Site No: Incident Dt: Year: Incident Cause:	NA 2016/12/29	Material Group: Health/Env Conseq: Client Type: Sector Type:	Municipal Sewage
Incident Event:	Collision/Accident	Agency Involved:	
Contaminant Code:	13	Nearest Watercourse:	
Contaminant Name:	DIESEL FUEL	Site Address:	SB Hwy 50 at Clarkway Dr
Contaminant Limit 1:		Site District Office:	
Contam Limit Freq 1:		Site Postal Code:	
Contaminant UN No 1:		Site Region:	
Environment Impact:		Site Municipality:	Brampton
Nature of Impact:		Site Lot:	
Receiving Medium:		Site Conc:	
Receiving Env:	Land; Surface Water	Northing:	
MOE Response:	No	Easting:	
Dt MOE Arvi on Scn:	0040/40/00	Site Geo Ref Accu:	
MOE Reported Dt:	2016/12/29	Site Map Datum:	
Dt Document Closed:	2017/01/09	SAC Action Class:	Highway Spills (usually highway accidents)
Site Name: Site County/District: Site Geo Ref Meth:	Diesel spill <unofficial></unofficial>	Source Type:	
Incident Summary: Contaminant Qty:	TT MVA Hwy 50, 50-100L diesel to sho 100 L	ulder, CBs, cntd	

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

<u>Site:</u> Any betv	time, Anywh veen Hunting	ere Transport <unofficial> gton Rd and Hwy 50, North shoulder Vaughar</unofficial>	n ON	Database: SPL
Ref No:		1878-7MT68N	Discharger Report:	
Site NO:			Waterial Group:	
Year			Client Type	
Incident Cau	ise:	Other Transport Accident	Sector Type:	Transport Truck
Incident Eve	nt:		Agency Involved:	
Contaminant	t Code:	14	Nearest Watercourse:	
Contaminant	t Name:	ASPHALT	Site Address:	
Contaminant	t Limit 1:		Site District Office:	York-Durham
Contam Limi	it Freq 1:		Site Postal Code:	
Contaminant	t UN No 1:		Site Region:	
Environment	t Impact:	Possible	Site Municipality:	Vaughan
Nature of Im	pact:	Soil Contamination	Site Lot:	
Receiving M	edium:		Site Conc:	
Receiving Er	nv:		Northing:	
MOE Respor	nse:	No Field Response	Easting:	
Dt MOE Arvl	on Scn:		Site Geo Ref Accu:	
MOE Report	ed Dt:	12/29/2008	Site Map Datum:	
Dt Documen	t Closed:	3/24/2009	SAC Action Class:	Primary Assessment of Incident
Incident Rea	son:	Other - Reason not otherwise defined	Source Type:	
Site Name:		Major Mackenzie Rd <unofficial></unofficial>		
Site County/	District:			
Site Geo Ref	Meth:	A station of A stations Test and a station		
incident Sun	nmary:	Anytime, Anywhere Transpo: granular	asphait to field	
Contaminant	t uty:	u other - see inclaent description		

Site: Canadian National Railway Company Rutherford Road Vaughan ON

Ref No:	7343-9PHPEW	Discharger Report:	
Site No:	NA	Material Group:	
Incident Dt:	2014/10/02	Health/Env Conseg:	
Year:		Client Type:	
Incident Cause:	Leak/Break	Sector Type:	Train
Incident Event:		Agency Involved:	
Contaminant Code:	27	Nearest Watercourse:	
Contaminant Name:	HEXAMETHYLENEDIAMINE	Site Address:	Rutherford Road
Contaminant Limit 1:		Site District Office:	

Database: <mark>SPL</mark>

Contam Limit Freq 1: Contaminant UN No 1:		Site Postal Code: 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></unofficial>		
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	CN MacMillan Yard: leak of hexamethy	lendiamine from railcar	

<u>Site:</u> CANADIAN PACIFIC RAILWAYS MILE 7.9, MACTIER SUB, JUST SOUTH OF WOODBRIDGE TRAIN VAUGHAN CITY ON

0 other - see incident description

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 Freg 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:			

CP RAIL: 45 L DIESEL TO RAILBED FROM LEAKING TANK, UNRECOVERABLE.

<u>Site:</u> CANADIAN PACIFIC RAILWAYS 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:	

Incident Summary: Contaminant Qty:

Contaminant Qty:

Database: SPL

Database: <mark>SPL</mark> MOE Reported Dt: 8/15/1998

EQUIPMENT FAILURE

Site Map Datum: SAC Action Class: Source Type:

Dt Document Closed: Incident Reason: Site Name: Site County/District: Site Geo Ref Meth: Incident Summary: Contaminant Qty:

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

<u>Site:</u> PUROLATOR COURIER LTD. WAREHOUSE BRAMPTON CITY ON

Ref No: Site No: Incident Dt: Year: Incident Cause: Incident Event: Contaminant Code: Contaminant Name: Contaminant Name: Contaminant Limit 1: Contaminant Limit 1: Contaminant UN No 1: Environment Impact: Nature of Impact: Receiving Medium:	19194 5/27/1989 OTHER CONTAINER LEAK	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: Site Lot: Site Conc:	21101
Receiving Env: MOE Response: Dt MOE Arvl on Scn: MOE Reported Dt: Dt Document Closed: Incident Reason: Site Name: Site County/District: Site Geo Ref Meth: Incident Summary: Contaminant Qty:	5/27/1989 ERROR PUROLATOR-1 L DICHLORO METH.	Northing: Easting: Site Geo Ref Accu: Site Map Datum: SAC Action Class: Source Type: ANE TO FLOOR- VAPOUR	CANUTEC,MOE SOUTSIDE WAREHOUSE

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

Ref No: 169491 Discharger Report: Site No: Material Group: Incident Dt: Health/Env Conseq: 6/27/1999 Year: Client Type: OTHER CONTAINER LEAK Incident Cause: 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: LAND Receiving Medium: Site Conc: Receiving Env: Northing: MOE Response: Easting: Dt MOE Arvl on Scn: Site Geo Ref Accu: 6/27/1999 MOE Reported Dt: Site Map Datum: Dt Document Closed: SAC Action Class: Incident Reason: EQUIPMENT FAILURE Source Type: Site Name: Site County/District: Site Geo Ref Meth: Incident Summary: CP RAIL: SPILL OF 5,600 LDIESEL FUEL OVER 72 KM TRAIN STOPPED REPAIRS TBA

240



Database:

SPL

Site:

lot 18 con 10 VAUGHAN ON

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:

Bore Hole Information

Bore Hole ID: 11761112 DP2BR: Spatial Status: Code OB: No formation data Code OB Desc: **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:

<u>Annular Space/Abandonment</u> <u>Sealing Record</u>

Plug ID:	933310297
Layer:	2
Plug From:	41.7
Plug To:	2
Plug Depth UOM:	m

<u>Annular Space/Abandonment</u> <u>Sealing Record</u>

Plug ID:	933310298
Layer:	3
Plug From:	2
Plug To:	0
Plug Depth UOM:	m

<u>Annular Space/Abandonment</u> <u>Sealing Record</u>

Data Entry Status:
Data Src:
Date Received:
Selected Flag:
Abandonment Rec:
Contractor:
Form Version:
Owner:
Street Name:
County:
Municipality:
Site Info:
Lot:
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

11/16/2006 Yes 5459 3 VAUGHAN YARD YORK VAUGHAN TOWN (VAUGHAN TWP)

018 10

Elevation: Elevrc: Zone: East83: North83: Org CS: UTMRC: UTMRC Desc: Location Method:

Order No: 20190508200

Database:

10296

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

lot 18 ON

Site:

Database: WWIS

Well ID:	6714474	Data Entry Status:	
Construction Date:		Data Src:	1
Primary Water Use:	Domestic	Date Received:	6/20/2003
Sec. Water Use:		Selected Flag:	Yes
Final Well Status:	Water Supply	Abandonment Rec:	
Water Type:		Contractor:	2663
Casing Material:		Form Version:	1
Audit No:	257922	Owner:	
Tag:		Street Name:	
Construction Method:		County:	WELLINGTON
Elevation (m):		Municipality:	PEEL TOWNSHIP
Elevation Reliability:		Site Info:	
Depth to Bedrock:		Lot:	018
Well Depth:		Concession:	
Overburden/Bedrock:		Concession Name:	CON
Pump Rate:		Easting NAD83:	
Static Water Level:		Northing NAD83:	
Flowing (Y/N):		Zone:	
Flow Rate:		UTM Reliability:	
Clear/Cloudy:		2	
2			
Bore Hole Information			

Bore Hole ID: 10542319 Elevation: DP2BR: Elevrc: Elevrc: Spatial Status: Zone: Code OB: 0 East83:

242

17

Code OB Desc:OverburdenOpen Hole:Cluster Kind:Date Completed:6/10/2003Remarks:Elevrc Desc:Location Source Date:Improvement Location Source:Improvement Location Method:Source Revision Comment:Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID: Layer: Color:	932922171 6
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

North83: Org CS: UTMRC: UTMRC Desc: Location Method:

9 unknown UTM na

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

<u>Overburden and Bedrock</u> <u>Materials Interval</u>

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: Formation End Depth: Formation End Depth UOM:	2 68 ft

<u>Annular Space/Abandonment</u> <u>Sealing Record</u>

933240232
1
0
20
ft

Method of Construction & Well Use

Method Construction ID: Method Construction Code: Method Construction: Other Method Construction:

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4 Rotary (Air)

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:	Ν

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

934350768
Draw Down
15
54
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:

Tag:

BOLTON ON

Well ID: 4909998 **Construction Date:** Primary Water Use: Sec. Water Use: Final Well Status: **Observation Wells** Water Type: Casing Material: Audit No: Z41333 _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:

Bore Hole Information

Bore Hole ID: 11323731 DP2BR: Spatial Status: Code OB: 0 Code OB Desc: Overburden **Open Hole:** Cluster Kind: Date Completed: 8/17/2005 Remarks: 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

246

Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec: Contractor: Form Version: 3 **Owner:** Street Name: County: Municipality: Site Info: Lot: Concession: Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability:

12/20/2005 Yes 7201 **HWY 50**

PEEL CALEDON TOWN (BOLTON)

Elevation: Elevrc: Zone: East83: North83: Org CS: UTMRC: UTMRC Desc: Location Method: na

Order No: 20190508200



Mat1: Most Common Material: Mat2: Other Materials: Mat3: Other Materials:	05 CLAY 06 SILT
Formation Top Depth:	4.2
Formation End Depth:	8.2
Formation End Depth UOM:	m

<u>Overburden and Bedrock</u> <u>Materials Interval</u>

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: Layer:	933021962 2
General Color: Mat1:	6 BROWN 06
Most Common Material: Mat2: Other Materials:	SILT 01
Mat3: Other Materials:	
Formation Top Depth: Formation End Depth: Formation End Depth UOM:	0.9 4.2 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

930866784
1
5
PLASTIC
3.2
cm
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

<u>Site:</u>

con 12 ON

Well ID: Construction Date: Primary Water Use: Sec. Water Use: Final Well Status:	6709490 Domestic Water Supply	Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec:	1 1/4/1989 Yes
Water Type: Casing Material:		Contractor:	1804
Casing material: Audit No: Tag:	34882	Owner: Street Name:	I
Construction Method: Elevation (m): Elevation Reliability:		County: Municipality: Site Info:	WELLINGTON PEEL TOWNSHIP
Well Depth: Overburden/Bedrock: Pump Rate: Static Water Level: Flowing (Y/N): Flow Rate: Clear/Cloudy:		Concession: Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability:	12 CON

Bore Hole Information

Bore Hole ID:	10473339	Elevation:	
Spatial Status:		Zone:	17

Database: WWIS Code OB:oCode OB Desc:OverburdenOpen Hole:Image: Cluster Kind:Date Completed:12/8/1988Remarks:Image: Cluster ClusterElevrc Desc:Image: Cluster ClusterLocation Source Date:Improvement Location Source:Improvement Location Method:Source Revision Comment:Supplier Comment:Supplier Comment:

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: Layer: Color: General Color:	932643758 3 6 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

East83: North83: Org CS: UTMRC: 9 UTMRC Desc: uni Location Method: na

9 unknown UTM na

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

930770572
1
2
GALVANIZED
160
5
inch
ft

Construction Record - Casing

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:	Ν

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: Water Found Depth UOM:

148 ft

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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:

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:

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

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

Abandoned Mine Information System:

Anderson's Waste Disposal Sites:

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:

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

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.

Certificates of Approval: 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*

Government Publication Date: 1875-Jul 2018

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Borehole:

BORE

Provincial

AAGR

AGR

AMIS

ANDR

AUWR

Provincial

Provincial

Private

Private

Provincial

Provincial

Certificates of Property Use:

Certificate of Property Use. Government Publication Date: 1994-Jun 30, 2019

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

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.).

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

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:

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*

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

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) -

Drill Hole Database: 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".

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

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Dry Cleaning Facilities:

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:

record date provided here.

List of commercial underground fuel oil tanks made available by the Fuels Safety Program of the Technical Standards & Safety Authority (TSSA).

Chemical Register:

Government Publication Date: Feb 28, 2017

Government Publication Date: 1999-Jan 31, 2019

Compressed Natural Gas Stations:

This inventory includes both the "Inventory of Coal Gasification Plant Waste Sites in Ontario-April 1987" and the Inventory of Industrial Sites Producing

Compliance and Convictions:

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Provincial

CDRY

CFOT

CHEM

CNG

COAL

CONV

CPU

DRI

Provincial

Federal

Private

Private

Provincial

Provincial

Provincial

Environmental Registry:

Environmental Compliance Approval:

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.

fisheries resources. Since 1992, pulp and paper mills have been required to conduct EEM studies under the Pulp and Paper Effluent Regulations. This

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)

Government Publication Date: Oct 2011-Jun 30, 2019

Orders please refer to those individual databases. Government Publication Date: 1994-Jun 30, 2019

Environmental Effects Monitoring:

database provides information on the mill name, geographical location and sub-lethal toxicity data. Government Publication Date: 1992-2007*

ERIS Historical Searches: 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:

The Environmental Issues Inventory System was developed through the implementation of the Environmental Issues and Remediation Plan. This plan was established to determine the location and severity of contaminated sites on inhabited First Nation reserves, and where necessary, to remediate those that posed a risk to health and safety; and to prevent future environmental problems. The EIIS provides information on the reserve under investigation, inventory number, name of site, environmental issue, site action (Remediation, Site Assessment), and date investigation completed. Government Publication Date: 1992-2001*

Emergency Management Historical Event: **FMHE** 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: FPAR 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.

List of TSSA Expired Facilities: FXP 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

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Government Publication Date: Jan 1, 2011 - Dec 31, 2018

Provincial

Federal

Private

Federal

Provincial

Provincial

Provincial

Provincial

EEM The Environmental Effects Monitoring program assesses the effects of effluent from industrial or other sources on fish, fish habitat and human usage of

FIIS

EBR

ECA

Order No: 20190508200

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Fuel Storage Tank:

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: 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

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.

List of greenhouse gas emissions from large facilities made available by Environment Canada. Greenhouse gas emissions in kilotonnes of carbon

Government Publication Date: 1986-Mar 31, 2019

TSSA Historic Incidents:

Greenhouse Gas Emissions from Large Facilities:

collected by the Technical Standards and Safety Authority.

Government Publication Date: Pre-Jan 2010*

dioxide equivalents (kt CO2 eq). Government Publication Date: 2013-Dec 2017

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*

Federal Convictions: **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*

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:

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

Contaminated Sites on Federal Land: Federal FCS

Federal

Provincial

Provincial

Federal

Provincial

HINC

GHG

FSTH

Federal

FOFT

FST
number, tank contents & capacity, and date of tank installation.

Indian & Northern Affairs Fuel Tanks:

TSSA Incidents:

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.

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

Government Publication Date: Feb 28, 2017

Landfill Inventory Management Ontario:

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: 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:

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.

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.

Government Publication Date: 1846-Jan 2019

National Analysis of Trends in Emergencies System (NATES):

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:

Sectoral Regulation or specific regulation/act. Government Publication Date: Dec 31, 2017

National Defense & Canadian Forces Fuel Tanks:

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.

limits, from regulated industrial and municipal facilities. A reported non-compliance failure may be in regard to a Control Order, Certificate of Approval,

Government Publication Date: Up to May 2001*

Federal

IAFT

INC

LIMO

MNR

NATE

NCPL

Provincial

Provincial

Private

Provincial

Federal In 1974 Environment Canada established the National Analysis of Trends in Emergencies System (NATES) database, for the voluntary reporting of

Provincial The Ministry of the Environment provides information about non-compliant discharges of contaminants to air and water that exceed legal allowable

Federal

erisinfo.com | Environmental Risk Information Services

NDFT

National Defense & Canadian Forces Spills:

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: 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*

The Department of National Defense and the Canadian Forces maintains an inventory of spills to land and water. All spill sites have been classified

National Energy Board Pipeline Incidents:

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: 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):

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: 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*

Government Publication Date: 1993-May 2017

National Pollutant Release Inventory: Environment Canada has defined the National Pollutant Release Inventory ("NPRI") as a federal government initiative designed to collect

is updated on a monthly basis. More information is available at www.nickles.com.

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

comprehensive national data regarding releases to air, water, or land, and waste transfers for recycling for more than 300 listed substances.

Ontario Oil and Gas Wells: OOGW In 1998, the MNR handed over to the Ontario Oil, Gas and Salt Resources Corporation, the responsibility of maintaining a database of oil and gas wells drilled in Ontario. The OGSR Library has over 20,000+ wells in their database. Information available for all wells in the ERIS database include well owner/operator, location, permit issue date, and well cap date, license No., status, depth and the primary target (rock unit) of the well being drilled. All geology/stratigraphy table information, plus all water table information is also provide for each well record.

Government Publication Date: 1800-May 2018

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Government Publication Date: 1988-May 31, 2019

erisinfo.com | Environmental Risk Information Services

Federal

Federal

Federal

Federal

Federal

Federal

NPRI

Provincial

NDSP

NEBI

Federal

NFFS

Inventory of PCB Storage Sites:

Government Publication Date: 1987-Oct 2004; 2012-Dec 2013

Orders: 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

Canadian Pulp and Paper:

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

The database details information on site name, location, tank install/removal date, capacity, fuel type, facility type, tank design and owner/operator.

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.

conformity with Act for waste disposal sites, (EPA s. 136) - Order for performance of environmental measures.

Parks Canada Fuel Storage Tanks:

Government Publication Date: 1994-Jun 30. 2019

Pesticide Register:

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

Government Publication Date: 1920-Jan 2005*

TSSA Pipeline Incidents:

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: 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:

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: RFC 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

Provincial

Provincial

Private

PCFT Canadian Heritage maintains an inventory of known fuel storage tanks operated by Parks Canada, in both National Parks and at National Historic Sites.

OPCB

ORD

PAP

PES

PINC

PTTW

Provincial

Federal

Provincial

Provincial

Provincial

Provincial

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requirements related to site assessment and clean up.

Government Publication Date: 1997-Sept 2001, Oct 2004-May 2019

RSCs filed after July 1, 2011 will also be included as part of the new (O.Reg. 511/09).

Retail Fuel Storage Tanks:

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: 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.

of impact, etc. Information from 1988-2002 was part of the ORIS (Occurrence Reporting Information System). The SAC (Spills Action Centre) handles

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

Government Publication Date: 1992-Mar 2011*

Ontario Spills:

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 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: 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:

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: 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

Provincial

Private

Provincial

Private

Private

Federal

SPL

RSC

RST

This database identifies information such as location (approximate), type and quantity of contaminant, date of spill, environmental impact, cause, nature

SRDS

List of fuel storage tanks currently or previously owned or operated by Transport Canada. This inventory also includes tanks on The Pickering Lands,

Provincial

VAR

TCFT

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:

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

Waste Disposal Sites - MOE CA Inventory:

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:

In June 1991, the Ontario Ministry of Environment, Waste Management Branch, published the "June 1991 Waste Disposal Site Inventory", of all known

Provincial

Provincial

Provincial

WDS

WDSH

WWIS

Order No: 20190508200

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.

<u>Map Key:</u> 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.'

<u>Unplottables:</u> 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.

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Appendix E

Ministry of Environment, Conservations and Parks – FOI



Ministry of the Environment and Climate Change

Freedom of Information Request

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 Reque	st Received ()	/yyy/mm/dd)	
Fee Paid		Cheque		A/MC	Cash/Money Order
			EAA		
1. Requester Data					
Last Name MITZAKOV		First Name	BERT		Middle Initial
Title PROJECT ENG	INFER	Company N SNC	ame C - L M	VALI,	N
Mailing Address Unit Number Street Number 195	Street Name	ST N	IALL		PO Box
City/Town TOIZONTO		Province	N		Postal Code M9C 5-K1
Email Address Nobert. Mitzakow@	Spalawlin.co	Telephone I	Number -635-5	88 Z ext. S	Fax Number 3805 4/6-635-535
Project/Reference Number Signat	ure of Requester	Sh	_		
2. Request Parameters		7			
Municipal Address (Municipal address mathematication) Unit Number Street Number /O/9/2	Street Name	regions)			PO Box
Lot Number	Concession 21	Geographic TO/2	Township	GORE	······································
City/Town/Village	N	Province	N		Postal Code LOP ØG 4
Miz. TAMES Providence Tenant (if applicable) Providence Providence	F. JOHNSTO,	N		Date	e of Ownership (yyyy/mm/dd) /993/03/02
Previous Property					
1. Owner				Date	e of Ownership (yyyy/mm/dd)
Tenant (if applicable)				t	,, <u> </u>

3. Search Parameters		
Search Parameters	Specify Year(s) Requested	
Environmental concerns (General correspondence, occurrence reports, abatement)	Please promole	
Orders		all rears
Spills		
Investigations/prosecutions ► Owner and tenant information must be provided		
Waste Generator number/classes		V
Files older than 2 years may require \$60.00 retrieval cost. There is no guarantee that records responsive to	o 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		
renewable energy		
water - mains, treatment, ground level, standpipes & elevated storage, pumping stations (local & booster)		
sewage - sanitary, storm, treatment, stormwater, leachate & leachate treatment & sewage pump stations		
waste water - industrial discharge		
waste sites - disposal, landfill sites, transfer stations, processing sites, incinerator sites		
waste systems - haulers: sewage, non-hazardous & hazardous waste, mobile waste processing units, PCB destruction		
Dreaman tinformation must be provided and Environmental Compliance Approval/Cartificate of Approval	umbo	r(a) (if known) 1095 and prior

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

Access and Privacy Office

12th Floor 40 St. Clair Avenue West Toronto ON M4V 1M2 Tel: (416) 314-4075 Fax: (416) 314-4285 Ministère de l'Environnement, de la Protection de la nature et des Parcs

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 Téléc.: (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,

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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

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° 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	\$ 34.30
•	Deposit Received	- \$ 30.00
•	BALANCE WAIVED (NOT REQUIRED)	\$ 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,

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Janet Dadufalza Manager, Access and Privacy

Attachments

Ministry of the Environment



OCCURENCE REPORT

Location of Occurence:		Source:	
BRAMPTON CITY		TRANSPORT TRUCK	
JOANSON FARM	HIGHWAY 50, NORTH OF	8 GOLDEN GATE, SCAR	BOROUGH 321-2103
HIGHWAY 7		Sector: TA Source: TP SI	C: 4560
Page 2 Dist: UD Municipality: 21	101		
Reg: 3 Dist: HP Municipality: 21			Diorioo
Entered:	ORIS NO.	Abstracts:	Diaries:
1992/11/08 16:10	9230001620		
Received By:		Batch:	I. E. B. No.
KATHLEEN KLINCK		757	
Occurence Type:	Subtype:	Occurence Date:	1992/08/18
s			
Work Plan:		Occurence Time:	05:00
		Benert to MOE: 1992/08	2/18 11:10
			10 11:10
		MOE at Scene: :	
der	28.2	Assigned To:	BRIAN BOUDREAU
Address:		ERP Contacted:	
10192 HIGHWAY 50		Callout:	NSP: [N]
BRAMPTON		ERP Name:	
Postal Code:			
Syn: BACKENTRY - 80 L DIES	EL FUEL TO SOIL FROM OVE	ERTURNED TRUCK.	
Brief Summary:			
CALLER REPORTED 20 GALL	ONS DIESEL FUEL TO GRAZING	LAND FROM OVERTURNED	TRUCK. O.P.P., F.D. & MOA AT SCENE.
JOE MOORE, PEEL REGION S	TATED FUEL SPILL RESULT OF	ACCIDENT ON ROAD & THA	T NO MIGRATION POSSIBLE. FARM
OWNER DOES NOT FEEL QUA	ANTITY SIGNIFICANT ENOUGH TO	O HAVE REMOVED.	O.P.P. CONTACT: OFFICER ARCER,
1-800-263-2277.			
If there are related reports, rec	ord initial/master ORIS No. here >>	• 9212673	
Followup Action: Abatement	EB Other		
BF Date:			
NO FURTHER ACTION REQU	RED.		
File Closed: X Abatement: IEE	Other		
Suspected Violation:			
Report Prepared By:	Date:	IEB Investigator:	IEB BF Date
BRIAN BOUDREAU	18/08/92		
Approving Officer	Date:	Reviewing Officer:	Date
ROBERT ADCOCK	02/09/92		
Specify number(s) for routing	Original [] [] [] [] [] []	Contir	nued [] Yes
Specify number(s) for copy dis	tribution [][][][]	1 []	
1. Investigator/E.O.	2. D. O. /File	3. SAC (initial spills)	
4. Reg. Dir. / Mgr.	5 IFB Reg. Sov	6. IEB H.O./file	7. Other
SAC Action Class: 1:25 2:			
	5. IEB ((6g. 0p)		
·····	5. IEB Rog. 694		
Material 1: DIESEL FUEL			Code : 13
Material 1: DIESEL FUEL Amount : 80 L			Code : 13 UN No.: 1202
Material 1: DIESEL FUEL Amount : 80 L Material 2:			Code : 13 UN No.: 1202 Code :
Material 1: DIESEL FUEL Amount : 80 L Material 2: Amount :			Code : 13 UN No.: 1202 Code : UN No.:

s.21

Amount :				UN No.:
Cause:				Code : 07
Reason:				Code : 99
Person in Control: UNKNO	WN			Waste GenNum :
Owner : UNKNC	200 WN			Waste GenNum :
Agencies Involved : R	EGION OF PEEL			
Clean up and Restoration (Carried out by:			
[v] Controller	[v] Owner	[N] Ot	her REGION OF PEEL	
N	N			
% Cleaned up:		Estim	ated Cost:	
Were Directions or Approv	al Given Under			
EPA Part X [v]	Regulation	362 [v]	Manifest No.	
waste Class :				Code : 000
Hauler:				Code :
Disposal Site :				Code :
Environmental Impact:	Nature of In	pact:		
N	Soil contami	nation		Code : 07
People/Business Damaged				
(Other than to Owner/Controller) : NIL				
Nature of Damage:				Code :
TERRORE CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONT		1976917211997204	or the second state of the	

Appendix F

Municipal Directories



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 Codette Dood	Addross 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



	-Chemello Contractors
	-Futuristic Touch Auto Collision
	-Fred's Repair
	-Orkel Contracting Ltd
	-Speed Sport Auto Repair
14 Cadetta Road	-D D Tool & Machine Co
	-Time & Precision Co Ltd
16 Cadetta Road	-Avenue Structures
18 Cadetta Road	-Tristar Coatings Ltd
20 Cadetta Road	-Delform Construction Ltd
	-Quality Fabricating & Machining Ltd
22 Cadetta Road	-Pilen Construction Of Canada Ltd
24 Cadetta Road	-Fence All
	-Roma Fence
	1

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 Technolgies
	-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 <publicinformationservices@tssa.org></publicinformationservices@tssa.org>
Sent:	June 17, 2019 9:40 AM
То:	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 <u>https://www.tssa.org/en/about-tssa/release-of-public-information.aspx? mid =392</u> and email the completed form to <u>publicinformationservices@tssa.org</u> 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: <u>publicinformationservices@tssa.org</u> www.tssa.org

From: Mitzakov, Robert <Robert.Mitzakov@snclavalin.com>
Sent: June 14, 2019 3:13 PM
To: Public Information Services <publicinformationservices@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



BUILD WHAT MATTERS



⑦ ● ● snclavalin.com

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Appendix H

Aerial Photographs









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Appendix I

Topographic Map and Areas of Natural Significance



(Phase I)\002FI1_666236 25\40_Execution\47_Wrkg_Vers\CAD_GIS\002 6651 Facility ransit Johnston Bramptor of P: \City FILENAME:

Appendix J

Ministry of Environment, Conservation and Parks – Water Well Records





DN	WELL NUMBER	ADDRESS	DATE RECEIVED	USE
	4902862		17-Jan-67	Water Supply
	4905218		16-Nov-77	Water Supply
	4905247		07-Dec-77	Water Supply
	4905769		10-Apr-81	Water Supply
	4905812		03-Nov-81	Water Supply
	4905813		03-Nov-81	Water Supply
	4906179		18-May-84	Water Supply
	4906478		08-Aug-86	Water Supply
	4908701		07-Feb-01	Water Supply
	7241945	4 CORDETTA RD	28-May-15	Observation Wells
	7282340	HWY 50 SOUTHBOUND LANE SOUTH OF CADETTA RD	28-Feb-17	Observation Wells
	7166972	12 CADETTA RD	09-Aug-11	Test Hole
	7178624	16 CADETLA ROAD	29-Mar-12	Test Hole
	4905768		10-Apr-81	Test Hole
	7225368	16 CADETTA RD.	12-Aug-14	Abandoned-Supply
	7249972	HWY 50 ASTLEMORE ROAD-COLERAINE DR.	14-Oct-15	Abandoned-Other
	7249973	HWY 50 CASTLEMORE RD. & COLERAINE DR.	14-Oct-15	Abandoned-Other
	7249974	HWY 50 CASTLEMORE RD. & COLERAINE DR.	14-Oct-15	Abandoned-Other
	7770710		76 100 17	1 Indiana and a



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Appendix K

Interview Form



SNC-LAVALIN INC. 235 Lesmill Road Toronto, Ontario Canada M3B 2V1

Telephone: +1-416-635-5882

Phase I Interview Questionnaire

Date:		May 16, 2019	
Place of interview:		Brampton	
Method of interview:		e mail	
Name of the person being interviewed:		Owner James F. Johnston	
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 beer	n owned by the Owner?	
	1992		
2	What was the Site used for	current and historically	
	agriculture, growing crops		
3	Was fill brought to the Site for grading/elevation purposes?		
	ho		
4	Is the Site currently munici	pal serviced?	
	んひ		
5	Has the Site always been municipally serviced?		
	n/a		
6	Are you aware of any septi a. If yes, does	c bed located on the Site? none it have a holding tank	



SNC-Lavalin May 2019 Page 2

	 b. How often is the holding tank emptied and where c. If no, was there ever a holding tank and is it decommissioned now?
	none
7	Are you aware if natural gas or hydro currently services the Site? Was the Site previously serviced with heating oil or coal?
	no, none No
8	Are you aware of any potable water well at the Site?
	n o
9	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?
	10
10	Are you aware of any waste drums or chemicals currently or previously been present at the Site?
	no, hone
11	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? $h c$



SNC-Lavalin May 2019 Page 3

12 Based on your knowledge, can you provide some history of the site & surrounding neighbourhood (ex. residential or always undeveloped) - always undeveloped. -"Growing food in 'the Gore 'since 1842" 13 Based on your knowledge, can you provide commentary as to when adjacent properties were developed? - daing farm to the south in family ownership Since 1842. -industrial area to north established in 1990's 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



SNC-Lavalin May 2019 Page 4

16	To your knowledge, are you aware of any current or previous asbestos containing materials or mould associated with the farm vehicle storage building?			
	ho			
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.)			
	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 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.



FLENAME: P:/City of Brampton/Johnston Transit Facility/665125/40_Execution/47_Wrkg_Vers/CAD_GIS/002 (Phase 1)/002P08_665125.dwg

PROJECT No. 665125



Photograph 15: Close up view of the AST located to the south of the metal storage.





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.





View of the east end of farm field on Parcel B. Highway 50 located immediately east. Facing north.





235 Lesmill Rd. Toronto, Ontario, Canada M3B 2V1 416-635-5882 www.snclavalin.com



Phase Two Environmental Site Assessment

10192 Highway 50, Brampton, Ontario

City of Brampton





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

City of Brampton 665125 FINAL - November 29, 2019

Phase Two Environmental Site Assessment 10192 Highway 50, Brampton, Ontario



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

Phase Two Environmental Site Assessment 10192 Highway 50, Brampton, Ontario



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 southcentral 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		
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.

<u>Soil</u>

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;

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- > 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					
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.	 Soil 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 	 Water Eight (8) - ICP metals Eight (8) - PAH Eight (8) - VOCs Eight (8) - F1-F4 Eight (8) - EC & SAR 			

10192 Highway 50, Brampton – Parcel B						
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.	Soil - 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	Water - 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 if ICP metals scan, EC and SAR;
- > Limited groundwater recovery in monitoring well MW-75 resulted in laboratory analysis of a reduced list or 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 place 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 1991300 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 HCI 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

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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.

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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

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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:

$$RPD = \frac{\left|X_1 - X_2\right|}{X_{avg}} \times 100$$

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.

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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
- > <u>Groundwater</u>: 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	Location of
		Soil	Groundwater	Exceedance (max. concentration)	Groundwater Exceedance (max. concentration)
s & Inorganics	рН	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
Metal	EC	700	na	BH72-1 (1,070) BH18-02 (810)	na
	Мо	2	70	na	MW-70 (120) MW-35 (73.2)

EC = electrical conductivity; soil concentrations reported in μ S/cm

Mo = molybdenum; soil and groundwater concentrations reported in μ g/g and μ g/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.

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Figures



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^{MiGhuar} 50						
			7			
ON-SITE/OFF-SITE ACTIVITIES	PCA No.	OF CONCERN				
RAL SITE AREA: HISTORICAL AND CURRENT ITTIES ASSOCIATED WITH ON-SITE CULTURE/FARMING	40	HERBICIDES AND PESTICIDES AND METALS/ INORGANICS				
RTATION OF FILL MATERIAL OF UNKNOWN ITY (NORTHEAST CORNER OF THE SITE)	30	PAHS AND METALS/ INORGANICS				
AGE OF FARM EQUIPMENT/MACHINERY IN THI L STORAGE SHED LOCATED AT THE SOUTH OF THE SITE	E NA	BTEX, PHC F1-F4, VOCs AND PAHs				
ERTY LOCATED AT 9701 HIGHWAY 50 RADIENT OF INFERRED GROUNDWATER FLOW TION) HAS BEEN DOCUMENTED AS A WASTE RATOR AND SPILLS	NA	BTEX, PHC F1-F4, VOCs, PAHs, AND METALS/ INORGANICS				
DLEUM FUEL HANDLING AND STORAGE SITE ASSOCIATED WITH A DYED DIESEL AST TED TO THE SOUTH OF THE METAL SHED O'N REMAINDER OF THE PROPERTY HAVING CIPAL ADDRESS OF 10192 HIGHWAY 50	N 28	BTEX, PHC F1-F4, VOCs, PAHs, AND METALS/ INORGANICS				
SITE PROPERTIES (ALONG THE NORTH ERTY BOUNDARY/ NORTH WEST CORNER OF SITE) LISTED AS WASTE GENERATORS	NA	BTEX, PHC F1-F4, VOCs, PAHs, AND METALS/ INORGANICS				
SITE PROPERTIES (ALONG NORTH PROPERTY IDARY OF THE SITE) INVOLVED IN THE FACTURING OF METAL PRODUCTS	34	VOCs AND METALS/ INORGANICS				
CITY OF BRAMPTON	O Title: PHASE (SCALE 1:2,000 40 DNE CONCEPTUAL SITE N	80m MODEL			
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AG Verified:

DISCUSSION NORTH	Å	,
		TRUE NORTH

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EC PH 179 7.07	I	DISCUSSION NORTH		,
7			1	TRUE
	BH02	SAMPLE DEPTH	EC	рН
BH-02	BH02-01	0.0 - 0.6	201	7.95
	SS1	SAMPLE DEPTH	EC	рН
	SS1	0.0 - 0.6	332	6.86
	BH 22		EC	nH
	BH22-03A	15-21	209	7.61
	51122 0571	1.5 2.1	203	7.01
	SS5	SAMPLE DEPTH	EC	рН
	SS5	0.0 - 0.6	168	7.09
/ / / /</td <td>вноз</td> <td>SAMPLE DEPTH</td> <td>FC</td> <td>рН</td>	вноз	SAMPLE DEPTH	FC	рН
	BH03-02	0.8 - 1.4	374	7.38
1	BH-33	SAMPLE DEPTH	EC	рН
Ŷŝ	BH33-2	0.6 - 1.2	183	7.75
Giuma)	BH33-22*	0.6 - 1.2	191	7.62
		SAMPLE DEPTH	EC	рH
Ĩ.	553	5,	-	P

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GREEN

<u>RED</u>

SHALLOW SOIL SAMPLE

BOREHOLE (SNC-LAVALIN, 2019) BOREHOLE/MONITORING WELL (SNC-LAVALIN, 2019)

INCL-DAVALIN, 2019) LOCATION WHERE ALL SOIL SAMPLES ANALYSED MET THE SELECTED STANDARD FOR ALL PARAMETERS ANALYSED, SHOWN IN GREEN

LOCATION WHERE AT LEAST ONE SOIL SAMPLE ANALYSED EXCEEDED THE SELECTED STANDARD FOR AT LEAST ONE PARAMETER ANALYSED, SHOWN IN RED

GREEN COLOURED CONCENTRATION MET THE MOE STANDARD

RED COLOURED AND UNDERLINED

(SNC-LAVALIN, 2019)

	SAMPLE DEPTH	EC	рН
2	0.8 - 1.4	810	7.35
	SAMPLE DEPTH	EC	рН
1	0.0 - 0.6	217	7.42

						STANDARD	EXCEEDED THE MOE	I			
ALE 1:2,00	00					INFERRED LIMIT	S OF CONTAMINATION				
						TORONTO AND	REGION	I			
40		80m				CONSERVATION FLOODPLAIN	AUTHORITY (TRCA)				
ABBREVIA	TION UNI	TS	STANDARDS	-		SITE PROPERTY	LINE	I			
EC	/Sµ	′cm	700	-		EXISTING BUILD	NG	I			
pН	pł	4	(5–9)	-		PROPOSED BUIL	DING	I			
				_	PROPOSED INFRASTRUCTURE						
TION STANDARDS FOR USE WITHIN POTABLE GROUNDWATER CONDITION NSTITUTIONAL/INDUSTRIAL/ PERTY USE (MOE, 2011) EVIOUSLY LISTED SAMPLE				NC 1. 2. 3.	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						
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						DISCUSSION NORTH	TRUE NORTH	
		W-02		/			7	
			\rightarrow	_	MW-02	1	_	
					SAMPLE DATE	Mo	-	
					2019 06 24	7.0		
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	#	+≁			SAMPLE DATE	Мо]	
		//			2019 06 25	15.7		
\sum					MW-03		1	
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/ /		5			2019 06 25	14.9		
	HI.			ſ	• M	LEGEND IONITORING WE SNC-LAVALIN,	LL 2019)	- action means
MW-33						ROUNDWATER	SAMPLE MET	
SAMPLE	DATE	Mo			T G	HAT WERE ANA REEN	ALYSED, SHOWN IN	į
2019 06	5 27	18.3				OCATION WHER ROUNDWATER TANDARDS FOR ARAMETER THA HOWN IN RED	RE MOST RECENT SAMPLE EXCEEDED R AT LEAST ONE NT WAS ANALYSED,	100 010
MW-30					GREEN G	REEN COLOUR		:
SAMPLE	DATE	Мо			RED R C S	COLOURED CONCENTRATION	AND UNDERLINED EXCEEDED THE MOE	
2019 06	524	6.9			1981 -	NFERRED LIMIT	S OF CONTAMINATION	
					F	ORONTO AND CONSERVATION LOODPLAIN ITE PROPERTY	REGION AUTHORITY (TRCA) LINE	
					E	XISTING BUILD		
ABBREVIA	ΓΙΟΝ	UNITS	STANDARDS		P	ROPOSED BUIL	RASTRUCTURE	
Mo ION STAN POTABLE USE (MO	DARDS GROU E, 20	µg/L S FOR USE NDWATER (11)	70 WITHIN CONDITION		NOTE(S): 1. SCALE AND SIT ARE APPROXIM 2. INFORMATION C IT IS PRINTED, OTHER THAN T 3. 'm' : METRES	TE INFRASTRUC ATE IN THIS FIGUR PHOTOCOPIED IS ORIGINAL S	TURE LOCATIONS E MAY BE LOST IF OR FAXED IN IZE AND COLOURS	
CITY OF 0192 HI BRAMP	BRAN GHW/ TON,	APTON AY 50, ON			Title: GROUNDW	ATER ANALY	TICAL RESULTS	
665125	Filena	me: 00	5F07_665	25	Date: NOVE	MBER 2019	Dwg No: FIGURE 7	
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Α' В -35) õ -33) -22) <u></u> -WM) (MM) MM) (MM) Ŵ -33 35 20 BH-73 -22 8 표 표 표 표





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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	46 7 2	7.62	2010 06 27		2.59	206.52 *
10100-02	211.00	210.10	4.0 - 7.2	7.02	2019-00-27	<5	3.38 4 41	200.32
MW-03	209.81	208 89	30-61	6 10	2019-06-27	<5	2.32	205.09
	200.01	200.00	0.0 0.1	0.10	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

 $^{\rm 2}$ 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
L	aboratory	Sample ID	Standard	265183	265186	275048	268835	294696	294732	275043	268852
SN	C-Lavalin	Sample ID	RL/PL/IN_CG	BH02-07	BH03-07	BH22-08	BH30-08	BH33-7	BH33-77	BH35-07	BH51-08
Samplin	Sampling Date (yyyy/mm/dd)					2019/06/12	2019/06/11	2019/06/19	2019/06/19	2019/06/12	2019/06/11
D		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		
		<5	<5	<5	<5	<5	<5	<5	<5		
									Duplicate of		
Parameter	RDL	Units							BH33-7		
<u>Volatiles</u>											
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	E Location	Table 8 ¹	BH72	BH73	BH-74	BH-75	BH-75	SS1	SS3	SS5
L	aboratory	Sample ID	Standard	294301	294305	624926	624954	624968	302489	302543	302559
SN	C-Lavalin	Sample ID	RL/PL/IN_CG	BH72-8	BH73-07	BH-74-06	BH-75-06	BH-75-66	SS1	SS3	SS5
Samplin		2019/06/20	2019/06/20	2019/10/16	2019/10/16	2019/10/16	2019/06/24	2019/06/24	2019/06/24		
D		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		
		<5	<5	<5	<5	<5	<5	<5	<5		
						Duplicate of					
Parameter	RDL	Units						BH-75-06			
<u>Volatiles</u>											
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		Table 8 ¹	BH02	BH03	BH22	BH30	BH33	BH33	BH35	BH51	BH72	BH73	
	Laboratory	Sample ID	Standard	265183	265186	275048	268835	294696	294732	275043	268852	294301	294305
	SNC-Lavalin	Sample ID	RL/PL/IN CG	BH02-07	BH03-07	BH22-08	BH30-08	BH33-7	BH33-77	BH35-07	BH51-08	BH72-8	BH73-07
Sa	mpling Date (vv	vv/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	2019/06/20	2019/06/20
	Depth Inter	val (mbos)		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	4.3 - 4.9	3.7 - 4.3
	Field Scre	en (ppmv)		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
		ui ,							Duplicate of				
Parameter	RDL	Units	1						BH33-7				
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	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	<	<	<	<	<	<	<	<	<	<

TABLE 3: Soil Analytical Results - VOC

10192 Highway 50, Brampton, ON

	Sample	Location	Table 8 ¹	BH-74	BH-75	BH-75	SS1	SS3	SS5
1	aboratory	Sample ID	Standard	624926	624954	624968	302489	302543	302559
- SN	C-I avalin	Sample ID	RI /PI /IN CG	BH-74-06	BH-75-06	BH-75-66	SS1	SS3	\$\$5
Samplin	a Date (vv	vv/mm/dd)		2019/10/16	2019/10/16	2019/10/16	2019/06/24	2019/06/24	2019/06/24
	enth Interv	val (mbos)		38-44	38-42	38-42	00-06	00-06	00-06
-	Field Scre	en (ppmv)		<5	<5	<5	<5	<5	<5
		••• (PP••••)		U U	U U	Duplicate of	•	•	Ũ
Parameter	RDL	Units				BH-75-06			
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	<	<	<	<	<	<

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

Sa	ample Lo	ocation	Table 8 ¹	BH02	BH03	BH22	BH30	BH33	BH51	BH72	BH73	BH-74	BH-75
Labora	tory Sar	nple ID	Standard	265182	265185	275045	268831	294694	268851	294299	294303	624922	624941
SNC-Lav	alin Sar	nple ID	RL/PL/IN CG	BH02-02	BH03-01	BH22-03	BH30-02	BH33-3	BH51-02	BH72-3	BH73-02	BH-74-01	BH-75-02
Sampling Date (yyyy/mm/do		nm/dd)		2019/06/10	2019/06/10	2019/06/12	2019/06/11	2019/06/19	2019/06/11	2019/06/20	2019/06/20	2019/10/16	2019/10/16
Depth Interval (mbgs		(mbgs)		0.8 - 1.4	0.0 - 0.6	1.5 - 2.1	0.8 - 1.3	1.2 - 1.8	0.7 - 1.3	1.2 - 1.8	0.6 - 1.2	0.0 - 0.6	0.8 - 1.4
Parameter	RDL	unit											
Polyovelia Aromatic Hydrocarbons													
Aconantitiona	0.05	ua/a	0.072	-	-	-	-	-	-	-	-	-	-
Acenaphthene	0.05	µg/g	0.072	~	~	~	~		~	~	~	~	~
Anthracono	0.05	µg/g	0.000	e e	e e	e e	e e	e e	e e	ź	e e e e e e e e e e e e e e e e e e e	e e e e e e e e e e e e e e e e e e e	~
Benzo(a)anthracene	0.05	µg/g	0.22	e e	e e	e e	e e	e e	e e	ź	e e e e e e e e e e e e e e e e e e e	e e e e e e e e e e e e e e e e e e e	~
Benzo(a)pyrene	0.05	µg/g	0.00	<	<	<	<	<	<	<	<	<	<
Benzo(b)fluoranthene	0.00	м9/9 ца/а	0.0	<	<	<	<	<	<	<	<	<	<
Benzo(g h i)pervlene	0.00	ug/g	0.68	<	<	<	<	<	<	<	<	<	<
Benzo(k)fluoranthene	0.05	ua/a	0.00	<	<	<	<	<	<	<	<	<	<
Chrysene	0.05	ua/a	2.8	<	<	<	<	<	<	<	<	<	<
Dibenzo(a.h)anthracene	0.05	ua/a	0.1	<	<	<	<	<	<	<	<	<	<
Fluoranthene	0.05	µq/q	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)

 $\mu g/g$ - 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

Sa Labora SNC-Lav Sampling Date Depth I	mple Lo tory San alin San e (yyyy/r nterval	ocation nple ID nple ID nm/dd) (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	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

Soil Analytical Results - Pesticides and Herbicides 10192 Highway 50, Brampton, ON TABLE 5:

	Sample	e Location	Table 8 ¹	BH02	BH03	BH18	BH22	BH30	BH33	BH35
L	aboratory	Sample ID	Standard	265181	265184	265187	275045	268398	294694	274941
SN	IC-Lavalin	Sample ID	RL/PL/IN_CG	BH02-01	BH03-02	BH18-02	BH22-03	BH30-01	BH33-3	BH35-03
Samplir	ng Date (yy	yy/mm/dd)	_	2019/06/10	2019/06/10	2019/06/10	2019/06/12	2019/06/11	2019/06/19	2019/06/12
	Depth Inter	val (mbgs)		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
Parameter	RDL	Units								
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	ua/a	na	< 1.00	<	<	<	<	<	<
2 4 5-Trichlorophenoxyacetic Acid	0.10	м9/9 Па/а	na	< 1.00	<	<	<	<	<	<
2-(2.4.5-Trichlorophenoxy) propionic acid (Silvex)	0.10	м9/9 Па/а	na	< 1.00	<	<	<	<	<	<
4-chloro-2-methyl phenoxy acetic acid	1.0	ua/a	na	< 10.0	<	<	<	<	<	<
Bromoxynil	0.5	ua/a	na	< 5.0	<	<	<	<	<	<
Dicamba	0 10	nu/u	na	< 1.00	<	<	<	<	<	<
Diclofop-methyl	0.10	na/a	na	< 1.00	<	<	<	<	<	<
Dichlorprop	0.10	ua/a	na	< 1.00	<	<	<	<	<	<
Dinoseb	0.10	иа/а	na	< 1.00	<	<	<	<	<	<
Mecoprop	1.0	ua/a	na	< 10.0	<	<	<	<	<	<
Picloram	0.10	µa/a	na	< 1.00	<	<	<	<	<	<

Soil Analytical Results - Pesticides and Herbicides 10192 Highway 50, Brampton, ON TABLE 5:

	Sample Loca					BH70	BH72	SS2	SS6
L	aboratory	Sample ID	Standard	268851	275049	268853	294298	302513	302561
SN	C-Lavalin	Sample ID	RL/PL/IN CG	BH51-02	BH52-03	BH70-01	BH72-2	SS2	SS6
Samplin	g Date (yy	yy/mm/dd)	-	2019/06/11	2019/06/12	2019/06/11	2019/06/20	2019/06/24	2019/06/24
	epth Interv	al (mbgs)		0.7 - 1.3	1.5 - 2.1	0.0 - 0.6	0.6 - 1.2	0.0 - 0.6	0.0 - 0.6
Parameter	RDL	Units							
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	ua/a	na	<	<	<	<	<	<
2.4.5-Trichlorophenoxyacetic Acid	0.10	ua/a	na	<	<	<	<	<	<
2-(2.4.5-Trichlorophenoxy) propionic acid (Silvex)	0.10	ua/a	na	<	<	<	<	<	<
4-chloro-2-methyl phenoxy acetic acid	1.0	ua/a	na	<	<	<	<	<	<
Bromoxynil	0.5	ua/a	na	<	<	<	<	<	<
Dicamba	0.10	ua/a	na	<	<	<	<	<	<
Diclofop-methyl	0.10	ua/a	na	<	<	<	<	<	<
Dichlorprop	0.10	μα/α	na	<	<	<	<	<	<
Dinoseb	0.10	µg/g	na	<	<	<	<	<	<
Mecoprop	1.0	µg/q	na	<	<	<	<	<	<
Picloram	0 10	ua/a	na	<	<	<	<	<	<

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)

Laboratory Sample ID Standard 265181 265184 265187 275045 268398 294685 294693 274941 268851 275045 SNC-Lavalin Sample ID BH02-01 BH03-02 BH18-02 BH22-03 BH30-01 BH33-2 BH35-03 BH51-02 BH52-03 Sampling Data (sams/mm/dd) 2010/06/10 2010/06/10 2010/06/10 2010/06/11 2010/06/12 20	268853 BH70-01 2 2019/06/11 0.0 - 0.6
Sompling Data (annulation and a second secon	BH70-01 2 2019/06/11 0.0 - 0.6
	2 2019/06/11 0.0 - 0.6
	0.0 - 0.6
Denth interval (minutes) Do-0.6 0.8-14 0.8-14 15-21 00-0.6 0.6-12 0.6-12 15-21 07-13 15-2	0.0 0.0
Parameter RDL Units BH33	
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 4 1 4
	0
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 <	0.14
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
liron 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 μ g/g 2 1.1 < < < < < < < < < < < < < < < < < <	<
NICKEI 1 µg/g 82 14 28 23 20 25 21 24 20 28 20	34
Phosphorous 5 $\mu g/g$ na	-
Selenium 0.4 µg/g 1.5 0.4 0.4 0.4 < < < < < < 0.5 <	0.4
Silicon 5 $\mu g/g$ na	-
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Variadului I $\mu y y = 00$ 50 47 55 20 55 23 51 25 39 24 7 nc 5 $\mu g / g$ 200 56 65 47 43 53 46 46 49 66 41	49
Zirconium 0.5 ug/g na	-

Soil Analytical Results - Metals and General Chemistry TABLE 6: 10192 Highway 50, Brampton, ON

TABLE 6: Soil Analytical Results - Metals and General Chen

10192 Highway 50, Brampton, ON

	Sample	e Location	Table 8 ¹	BH72	BH73	BH-74	BH-75	BH-75	SS1	SS2	SS3	SS4	SS5	SS6
	Laboratory	Sample ID	Standard	294297	294303	624922	624941	624953	302489	302513	302543	302549	302559	302561
s	NC-Lavalin	Sample ID	RL/PL/IN CG	BH72-1	BH73-02	BH-74-01	BH-75-02	BH-75-22	SS1	SS2	SS3	SS4	SS5	SS6
Sampli	ng Date (yy	yy/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	2019/06/24	2019/06/24	2019/06/24
	Depth Inter	val (mbgs)		0.0 - 0.6	0.6 - 1.2	0.0 - 0.6	0.8 - 1.4	0.8 - 1.4	0.0 - 0.6	0.0 - 0.6	0.0 - 0.6	0.0 - 0.6	0.0 - 0.6	0.0 - 0.6
	•							Duplicate of						
Parameter	RDL	Units						BH-75						
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	-	pН	(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	-	-	-	-	-	-
	0.4	µg/g	1	<	<	<	<	<	<	<	<	<	<	<
l itanium	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
	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	-	-	-		-	-

Soil Analytical Results - Metals and General Chen TABLE 6: DN

10192 Highway 50, Brampton, C	C
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	Sample	e Location	Table 8 ¹	SS7	SS8	SS9	SS9	SS10	SS11	SS12	SS13	SS14
L	aboratory	Sample ID	Standard	624888	624891	624892	624893	624894	624895	624896	624897	624898
SN	C-Lavalin	Sample ID	RL/PL/IN_CG	SS7	SS8	SS9	SS99	SS10	SS11	SS12	SS13	SS14
Samplin	g Date (yy	yy/mm/dd)	_	2019/10/16	2019/10/16	2019/10/16	2019/10/16	2019/10/16	2019/10/16	2019/10/16	2019/10/16	2019/10/16
	epth Interv	val (mbgs)		0.0 - 0.6	0.0 - 0.6	0.0 - 0.6	0.0 - 0.6	0.0 - 0.6	0.0 - 0.6	0.0 - 0.6	0.0 - 0.6	0.0 - 0.6
		-					Duplicate of					
Parameter	RDL	Units					SS9					
General Chemistry												
Eree Cyanide	0.040	ua/a	0.051	_	_		_	_		_	_	_
Electrical Conductivity	5	uS/cm	700									
	5	μο/cm	(5.0)	10.2	10.0	11.2	11.2	11.0	0.24	0 5 2	10.7	0.01
pri Sodium Adcountion Botio	-	µ⊓ Nono	(3-9)	10.5	10.0	11.3	11.5	11.0	0.34	0.00	10.7	9.01
Soulum 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	hð/ð	na	-	-	-	-	-	-	-	-	-
Manganese	5	hð/ð	na	-	-	-	-	-	-	-	-	-
Mercury	0.10	hð/ð	0.27	-	-	-	-	-	-	-	-	-
Molybaenum	0.5	µg/g	2	-	-	-	-	-	-	-	-	-
Nickei	5	µg/g	82	-	-	-	-	-	-	-	-	-
Phosphorous	5	µg/g	16	-	-	-	-	-	-	-	-	-
Silicon	0.4	µg/g	1.5	-	-	-	-	-	-	-	-	-
Silvor	0.2	µg/g	0.5	-	-	-	-	-	-	-	-	-
Strontium	5	P9/9	0.0	-	-	-	-	-	1 -	-	-	-
Thallium	0.4	49/9 11/0	1	_								
Titanium	50	49/9 11/2	na I	_	_		_	_	_	_		_
Uranium	0.5	H8/8	25	_	_	_	_	_	_	_	_	_
Vanadium	1	µ9/9 µa/a	2.5	_								
Zinc	5	Hala Hala	290	_	_		_	_	_	_		_
Zirconium	0.5	ua/a	na	_	-	_	-	-	_	-	-	-
		- m v// v/		-		-	-	-	-		-	-

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

	Sample	e Location		COMP-1
L	aboratory	Sample ID	Leachate	294734
SN	C-Lavalin	Sample ID	Quality	COMP-1
Samplin	g Date (vv	vv/mm/dd)	Criteria ¹	2019/06/19
Parameter	RDL	Units		
Leachable General Chemistry				
Cyanide	0.05	mg/L	20	<
Fluoride	0.05	mg/L	150	0.24
Nitrate+Nitrite as N	0.70	mg/L	1,000	<
Losobablo Motols				
Arsonic	0.010	ma/l	2.5	-
Barium	0.010	mg/L	100	0.524
Boron	0.100	mg/L mg/l	500	0.524
Cadmium	0.030	mg/L mg/l	500	0.057
Chromium (total)	0.010	mg/L mg/l	0.5	
	0.010	mg/L mg/l	5	<
	0.010	mg/L	5	<
Solonium	0.01	mg/L	0.1	<
Selenium	0.010	mg/L	1	<
Silver	0.010	mg/L	5	<
oranium	0.050	iiig/∟	10	<
l eachable BAHs				
Benzo(a)nyrene	0.001	ma/l	0.001	-
Denzo(a)pyrene	0.001	mg/∟	0.001	
I eachable Organochlorine Pesticides				
Hexachlorobenzene	0 004	ma/l	0.13	-
Hexachlorobutadiene	0.004	ma/l	0.5	
Hexachloroethane	0.004	mg/L	3	~
	0.001	g/ E	Ũ	
Leachable Volatiles				
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	<
		-		
Leachable Semi-Volatiles				
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

	Sample	e Location	Table 8 ¹	MW-02	MW-03	MW-22	MW-30	MW-33	MW-35	MW-51	MW-51
L	aboratory	Sample ID	Standard	306302	306131	306303	306340	311532	306309	311538	306337
SN	C-Lavalin	Sample ID		MW-02	MW-03	MW-22	MW-30	MW-33	MW-35	MW-51	MW-511
Sampling Date (yyyy/mm/dd)				2019/06/24	2019/06/25	2019/06/25	2019/06/24	2019-06-27	2019/06/24	2019/06/24	2019/06/24
											Duplicate of
Parameter	RDL	Units									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	e Location	Table 8 ¹	MW-70	MW-74	MW-75	MW-75
L	aboratory	Sample ID	Standard	306341	640953	640955	640959
SN	C-Lavalin	Sample ID		MW-70	MW-74	MW-75	MW-755
Samplin	g Date (yy	yy/mm/dd)		2019/06/24	2019/10/22	2019/10/22	2019/10/22
							Duplicate of
Parameter	RDL	Units					MW-75
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

S	ample L	ocation	Table 8 ¹	MW-02	MW-03	MW-22	MW-30	MW-33	MW-35	MW-51	MW-51	MW-70	MW-74	MW-75	MW-75
Laboratory Sample ID			Standard	306302	306131	306303	306340	311532	306309	311538	306337	306341	640953	640955	640959
SNC-Lavalin Sample ID			MW-02	MW-03	MW-22	MW-30	MW-33	MW-35	MW-51	MW-511	MW-70	MW-74	MW-75	MW-755	
Sampling Date (yyy/mm/dd)			2019/06/24	2019/06/25	2019/06/25	2019/06/24	2019-06-27	2019/06/24	2019/06/24	2019/06/24	2019/06/24	2019/10/22	2019/10/22	2019/10/22	
		,									Duplicate of				Duplicate of
Parameter	RDL	Units									MW-51				MW-75
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	<	<	<	<	<	<	<	<	<	<	<	<

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

	Sample	Location	Table 8 ¹	MW-02	MW-03	MW-22	MW-30	MW-33	MW-35	MW-70	MW-74
Laboratory Sample ID S				306302	306131	306303	306340	311532	306309	306341	640953
SN		MW-02	MW-03	MW-22	MW-30	MW-33	MW-35	MW-70	MW-74		
Samplin		2019/06/24	2019/06/25	2019/06/25	2019/06/24	2019-06-27	2019/06/24	2019/06/24	2019/10/22		
Parameter	RDL	Units									
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.

	Sample	e Location	Table 8 ¹	MW-02	MW-03	MW-22	MW-30	MW-33	MW-35	MW-51	MW-70	MW-74
L	.aboratory	Sample ID	Standard	306302	306131	306303	306340	311532	306309	311538	306341	640953
SNC-Lavalin Sample ID				MW-02	MW-03	MW-22	MW-30	MW-33	MW-35	MW-51	MW-70	MW-74
Samplir	ng Date (yy	yy/mm/dd)		2019/06/24	2019/06/25	2019/06/25	2019/06/24	2019-06-27	2019/06/24	2019/06/24	2019/06/24	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
рН	-	pН	na	7.82	7.71	7.88	7.84	7.86	8.00	7.85	7.98	7.90
Dissolved Metals												
Antimony	1.0	ua/L	6	-	-	_	-	_	-	_	-	<
Arsenic	1.0	ua/L	25	-	-	_	-	_	-	_	-	1.0
Barium	2.0	ua/L	1.000	131	56.8	79.4	86.4	123	68.0	92.6	67.3	114
Bervllium	0.5	ua/L	4	<	<	<	<	<	<	<	<	<
Boron	10.0	ua/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	ug/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	<

TABLE 11: Groundwater 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

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



UNIFIED SOIL CLASSIFICATION SYSTEM





UNIFIED SOIL CLASSIFICATION SYSTEM



Appendix B

Borehole Logs

ent:	City of Brampton	n nmental Site Assessment						g Method:	<u>150 m</u> m Ho	bllow Stem Augering	(Compiled by: NT		
ject Name:	Phase II Environmental Site A							g Machine:	Track Moun	ted Drill	I	Reviewed by: MT		
Location: 10192 Hwy 50, Brampton, ON							Date	Started:	Jun 10, 201	10, 2019	<u> </u>	Revision No.: 0		
LITHOLOGY PROFILE SOIL SAMPLING								FIELD	TESTING	LAB TESTING	7	EAS	ASTING: 606377.19	
	DESCRIPTION	ple Type	ple Number	overy (%)	'N' Value	TH (m)	(ATION (m)	Penetrat O SPT MTO Vane* △ Intact ▲ Remould	ion Testing ● DCPT Nilcon Vane* ◇ Intact ◆ Remould		RUMENTATIO	it Weight KN/m3)	HING: 4852223.96 COMMENTS	
Local Ground	Surface Elevation: 210.10 m	Sam	Sam	Reco	SPT	DEP	ELEY	* Undrained Sh 20 40	ear Strength (kPa) 60 80	Atterberg Limits W _P ● ●	INST	5 -		
Loose crush ~460 mm. FILL	ned stone / asphalt pieces 209.7 0.5	ss	01	75			210 -			o ²²			Top of Riser Elevation = 211.00 m; Height of Riser =0.90 m Sample submitted for	
Brown, firm, sand, trace	silty CLAY, trace to some gravel, moist.	SS	02	84	4	- - - - - -	209 -	0		o ²⁴			BH02-01 PP = 1.0 kg/ sq-cm Sample submitted for laboratory analysis:	
NATIVE TIL	208.6 L 1.5												BH02-02 PP = 3.5 kg/ sq-cm	
Brown, very gravel, wet.	stiff, sandy silty CLAY, trace	SS	03	100	19	- - 2 -	208 -	0		o ¹⁶				
becomes ox	kidized, hard	SS	04	100	62		-		0	o ¹¹			PP = 1.5 kg/ sq-cm	
trace broker	n cobble pieces	SS	05	100	58	3	207 -		0	o ⁸			PP = 1.5 kg/ sq-cm	
						- - - - - - 4	206 -							
		SS	06	33	39	- - - - - - - - - - - - - - - - - - -	205 -	0		° ⁹				
		SS	07	100	61	6	204 —		O	o ¹²			Sample submitted for laboratory analysis: BH02-07	
	202 5					- 7 - 7 	203 -							
Grey, compa trace gravel	act, SAND to silty SAND, 7.6 , wet.	SS	08	100	22	- - - - - - 8 - -	202 -	0		0 ¹²				
						- - - - - 9	201 -							
very dense	200.4	ss	09	100	94				0	o ¹⁰	· · · · ·		PP = 3.0 kg/ sq-cm	
End of borel Notes: 1. Borehold at 9.14 r at 5.64 r 2. Water ta complet stem au 21, 2019 3. PP = po	hole. 9.8 e was found to be caved-in mbgs with freestanding water mbgl upon completion. able was measured upon ion of drilling inside the hollow ger on June 24 and October 9. cket penetrometer.													
))	$\frac{\Sigma}{\Xi}$ Groundv	 vater de	pth on	comple	tion of (drilling	j: <u>5.64</u>	l i i		Cave in depth record	led on cor	npletior	n of drilling: <u>9.14 m</u> .	
RECORD	OF BOREHOLE N	o.	BH	<u>03/N</u>	<u>/W</u>	<u>)3</u>								
---	--	-----------------------------------	---------------------	---------------------	----------------------------	---	---	--	--	---	------------	------------------------	---	
Project Number:	<u>665125</u>						Drilling	g Location:	As per borel	nole location plan		L	logged by: MF	
roioct Namo:	City of Brampton Phase II Environmental Site A		ment				_ Drilling	y Method:	Track Mount			(Complied by: <u>NT</u>	
ocation:	10192 Hwy 50, Brampton, ON	33633	ment				Date S	Started:	Jun 10. 201	9 Date Completed: Jun	10. 2019	「) F	Revision No.: 0	
		50	11 94			1								
		30						Penetrat	ion Testing	LAD TESTING * Rinse pH Values 2 4 6 8 10 12	NOL	EAS NORT	HING: 606450.93 HING: 4852124.65	
Local Ground	DESCRIPTION	Sample Type	Sample Number	Recovery (%)	SPT 'N' Value	DEPTH (m)	ELEVATION (m)	 SPT MTO Vane* △ Intact ▲ Remould * Undrained Sha 20 40 	● DCPT Nilcon Vane* ◇ Intact ◆ Remould ear Strength (kPa) 60 80	Soil Vapour Reading △ parts per million (ppm) 100 200 300 400 ▲ Lower Explosive Limit (LEL) ¥ Pasing 75un (%) O Moisture Content (%) Wsp0 40 60 80 W.	NSTRUMENTA	Unit Weight (KN/m3)	COMMENTS	
Loose crust 460 mm.	ned stone / asphalt pieces~ 208.4	SS	01	75		-					NZW		Top of Riser Elevation = 209.81 m; Height of Riser= 0.92 m	
FILL Brown to lig trace grave	0.5 ht brown, stiff, silty CLAY, , moist.	SS	02	84	8	- - - - - - - - -	208 -	0					Sample submitted for laboratory analysis: BH03-01 PP = 3.0 kg/ sq-cm Sample submitted for laboratory analysis:	
becomes o	kidized, some sand. 206.6	SS	03	100	9	- - - - - - 2	207 -	0					BH03-02 PP = 4.0 kg/ sq-cm	
NATIVE TIL Brown, hard CLAY, trace moist.	L 2.3 I to very stiff, sandy silty e sand, trace gravel, oxidized,	SS	04	100	40		206 -	0			T		PP = 3.0 kg/ sq-cm	
fine sand at	bottom. 205.3	SS	05	75	26		-	0					PP = 4.5 kg/ sq-cm	
trace grave	I, silty clay seams, moist.	SS	06	75	24	- - - - - - -	205 -	0						
becomes ve	ery dense.	SS	07	0	<u>50/ 50</u> mm	- - - - - 5	204 -						Sample submitted for laboratory analysis: BH03-07	
becomes co	ompact, wet.	SS	08	75	28		203 –	0						
Find of bore	202.2 hole 6.7	SS	09	33	17			0					Auger refusal	
Notes: 1. Borehol at 5.94 at 4.57 2. Water t complet stem au 21, 201 3. PP = pc	e was found to be caved-in mbgs with freestanding water mbgs upon completion. able was measured upon ion of drilling inside the hollow iger on June 24 and October 9. wcket penetrometer.													
C · LAVALIN Hanlan Rd National Contracts	∑ Groundw ∑ Groundw Borehole details	vater de vater de as preser	pth on o pth obs	complet served c	tion of o on <u>21/</u>	drilling 10/201 horough	g: <u>4.57</u> <u>9</u> at a de nundersta	m ppth of: <u>3.</u>	13 m. ntial conditions pro	Cave in depth record	ed on con	mpletion	of drilling: <u>5.94 m</u> .	

R	ECORD OF BOREH	IOLE N	о.	<u>BH</u>	<u>18</u>									
Pro	ect Number: 665125							Drilling	J Location:	As per borel	hole location plan		L	ogged by: MF
Clie	nt: City of Brampton							Drilling	g Method:	150 mm Ho	llow Stem Augering		(Compiled by: <u>NT</u>
Pro	ect Name: Phase II Environm	nental Site A	ssess	ment				Drilling	g Machine:	Track Mount	ted Drill		F	Reviewed by: MT
Loc	ation: 10192 Hwy 50, Bra	mpton, ON						Date S	Started:	Jun 10, 201	9 Date Completed: Jun	11, 2019	<u>)</u> F	Revision No.: 0
	LITHOLOGY PROFILE		SO	IL SA	MPLI	NG			FIELD	resting	LAB TESTING	z	EAS	TING: 606440.23
				Ļ					Penetrat	ion Testing	★ Rinse pH Values 2 4 6 8 10 12 		NORT	HING: 4852017.03
Lithology Plot	DESCRIPTION	208.95 m	Sample Type	Sample Numbe	Recovery (%)	SPT 'N' Value	DEPTH (m)	ELEVATION (m	 SPT MTO Vane* △ Intact ▲ Remould * Undrained She 20 40 	 DCPT Nilcon Vane* Intact Remould Particular Strength (kPa) 80 	Soli Vapour Reading A parts per million (ppm) 100 200 300 400 Lower Explosive Limit (LEL)	INSTRUMENT/	Unit Weight (KN/m3)	COMMENTS
	Loose crushed stone / asphalt p 460 mm.	oieces~	SS	01	84		_	-						
	FILL Brown, firm, silty CLAY, trace g trace sand, some oxidation, mo	208.5 0.5 ravel, ist.	ss	02	62	7		208 -	0					PP = 2.5 kg/ sq-cm PP = 3.0 kg/ sq-cm Sample submitted for laboratory analysis:
		207.4						-						BH18-02
	NATIVE TILL Brown, very stiff, sandy silty CL to some gravel, moist.	1.5 AY, trace	SS	03	54	25	- 2	207 —	0					PP = 2.5 kg/ sq-cm
	becomes hard		<u> </u>	04	67	00	E	-		0				PP = 4.5 kg/ sq-cm
			55				È	-		Ŭ				
	trace broken cobbles		SS	05	100	65	3	206		0				
	wet sand pockets		SS	06	92	40	4	205 -	0					PP = 4.5 kg/ sq-cm
			SS	07	100	30	- 5	204 —	0					PP = 4.0 kg/ sq-cm
	GB: 2%: SA: 13%: SI: 63%: & (21 · 22%					- 6	203 —						PP = 3.5 kg/ sq-cm
			SS	08	100	31	- 7	202 —	0		F			
	Grey, very dense, silty SAND, tr trace gravel moist to wet gravel pockets.	<u>201.3</u> race clay7.6	SS	09	100	59	- 8	201 —		0				
<u>~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~</u>							- - - - - 9	200 -						
	some clay	199.2	SS	10	100	49		-		0				
	 Borehole was found to cave at 9.14 mbgs with no freesta water upon completion. Water table was measured completion of drilling inside hollow stem auger. PP = pocket penetrometer. GR., SA., SI. & CL. denote 4 Sand, Silt & Clay respective 	9.8 anding upon the Gravel, ely.												
	*	$\frac{\nabla}{=}$ No freest	anding	ground	lwater r	neasure	ed in o	pen bor	ehole upon co	mpletion of dri	lling.			
SNO	·LAVALIN													
401 Vau Tel:	Hanlan Rd Jhan, Ontario L4L 3T1 905-851-0090	Borehole details a from a qualified G commisioned and	as preser Geotechni I the acco	nted, do ical Engi ompanyi	not const ineer. Als ng'Notes	itute a th o, boreho to Recor	orough ble info d of Bo	understa rmation sh reholes'.	nding of all poten hould be read in	ntial conditions pr conjunction with t	esent and requires interpretative a he geotechnical report for which it	ssistance was		Scale: 1 : 63

R	ECORD	OF BOREHOLE N	о.	<u>BH</u>	22/1	/W2	<u>22</u>							
Pro	ject Number:	665125						Drilling	g Location:	As per bore	hole location plan		l	_ogged by: MF
Clie	ent:	City of Brampton						_ Drilling	g Method:	150 mm Ho	bllow Stem Augering		(Compiled by: <u>NT</u>
Pro	ject Name:	Phase II Environmental Site A	ssess	ment				_ Drilling	g Machine:	Track Moun	ted Drill		F	Reviewed by: MT
Loc	ation:	10192 Hwy 50, Brampton, ON						_ Date S	Started:	Jun 12, 201	9 Date Completed: Jun	12, 2019	<u>)</u> i	Revision No.: 0
	LITH		SO	IL SA	MPLI	NG			FIELD	TESTING	LAB TESTING Rinse pH Values	NO	EAS	TING: 606347.46
thology Plot		DESCRIPTION	ample Type	ample Number	ecovery (%)	PT 'N' Value	EPTH (m)	LEVATION (m)	Penetrat ○ SPT MTO Vane* △ Intact ▲ Remould * Undrained She	on Testing DCPT Nilcon Vane* Intact Remould 	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 (%) Moisture Content (%) Muter Every Limits Wue Moisture Content (%) Wue Wue	ISTRUMENTATI	Unit Weight (KN/m3)	COMMENTS
	Local Ground Loose crush	ned stone / asphalt pieces	S	S	Ľ	S		<u> </u>	20 40	60 80	20 40 60 80			Top of Riser Elevation =
	~760 mm.	209.5	SS	01	67			210 -						Height of Riser= 0.86 m
	Brown, stiff, some grave	L 0.8 sandy silty CLAY, trace to I, oxidized, moist.	SS	02	75	11	- - - -	209 —	0					PP = 3.5 kg/ sq-cm
	becomes ha	ırd	SS	03	100	31	- 2	-	0					Sample submitted for laboratory analysis: BH22-03
	trace broker	n cobbles	SS	04	67	75		208		0				PP = 4.5 kg/ sq-cm
			SS	05	100	60	- 3	207 —		0				PP = 4.5 kg/ sq-cm
	oxidized cor	es	SS	06	100	44	- - - - - -	206 —	C)				PP = 4.5 kg/ sq-cm
	becomes gr	ey, gravelly sand pockets.	SS	07	84	72	5	205 —		0				PP = 4.5 kg/ sq-cm
	becomes ve	ery stiff.	SS	08	100	29		-	0					Sample submitted for laboratory analysis: BH22-08
	Fieldfear	203.5	SS	09	100	27		204 -	0					
	Notes: 1. Borehold with no f complet 2. Water ta complet stem at 21, 2019 3. PP = po	e was found to be open freestanding water upon ion. whe was measured upon ion of drilling inside the hollow uger on June 24 and October). cket penetrometer.												
-	》	∑ = No freest	anding	ground	lwater n	neasur	ed in o	pen bor	ehole upon co	mpletion of dri	lling.			1
401 Vaug Tel:	→ LAVALIN Hanlan Rd ghan, Ontario L4 905-851-0090	4L 3T1 Events from a qualified Commissioned and	ater de as preser Geotechn I the acco	pth obs nted, do ical Engi ompanyi	not const ineer. Als ng'Notes	itute a th o, boreh to Reco	norough ole info rd of Bo	별 at a de n understa rmation sl preholes'.	pth of: <u>0.</u> nding of all pote nould be read in a	<u>r 6m.</u> ntial conditions pr conjunction with t	esent and requires interpretative he geotechnical report for which i	assistance t was		Scale: 1 : 63 Page: 1 of 1

lient:	City of Bramston						Drilling	Mothod	150 mm U-			L	Compiled by: MT
roject Name:	City of Brampton Phase II Environmental Site A	55955	ment				Drilling	Machine:	Track Mount	now Stem Augering		(Complied by: <u>NT</u>
ocation:	10192 Hwy 50, Brampton, ON		mont				Date Sta	arted:	Jun 11, 2019	Date Completed: Jun	11, 2019		Revision No.: 0
LITH		SO	II SA	MPLI	NG			FIEL D	TESTING			-	TINC: 000449 57
		00						Penetrat	ion Testing	★ Rinse pH Values 2 4 6 8 10 12	LION	NORT	HING: 4851932.58
)	DESCRIPTION	Sample Type	Sample Number	Recovery (%)	SPT 'N' Value	DEPTH (m)	ELEVATION (m)	O SPT MTO Vane* △ Intact ▲ Remould Undrained Sh 20 40	● DCPT Nilcon Vane* ◇ Intact ◆ Remould ear Strength (kPa) 60 80	Soil Vapour Reading △ parts per million (ppm) 100 200 300 400 ▲ Lower Explosive Limit (LEL) * Passing 75 um (%) O Moisture Content (%) Atterberg Limits W _P 20 40 60 80	INSTRUMENTA	Unit Weight (KN/m3)	COMMENTS
Topsoil ~20 FILL	0 mm. 208.3 0.2 0.2	SS	01	84	5			D					Top of Riser Elevation = 209.36 m; Height of Riser=0.88 m
NATIVE TIL Brown, stiff,	, sity CLAY, trace gravel, 207.7 L 0.8 sandy silty CLAY, trace to	ss	02	100	12	- - - - 1	208	0		H			Sample submitted for laboratory analysis: BH30-01 PP = 1.5 kg/ sq-cm PP = 2.0 kg/ sq-cm
Some grave GR: 2%; SA	I, some oxidation, moist. \: 28%; SI: 49%; & CL: 21%			100		-	207 —						Sample submitted for laboratory analysis: BH30-02 PP = 3.5 kg/ sq-cm
becomes ha	ard		03	100	33	2 2	206 -	0	0				PP = 4.5 kg/ sq-cm
		55	04	133	50	- 3			0				PP = 3.5 ka/ sa-cm
		SS	05	100	44	-	205 –	C)				
		SS	06	100	40	- 4 	204 —	O					PP = 4.0 kg/ sq-cm
becomes br	ownish grey, very stiff.	SS	07	100	28	- 5	-	0					PP = 3.5 kg/ sq-cm
Brown, very SAND, wet.	dense, gravelly SAND to 5.3	SS	08	100	50/ 125 mm	-	203 –						Sample submitted for laboratory analysis:
End of bore	202.3 hole. 6.2	SS	09	94	50/ 75 mm	- 6 - 2							BH30-08
Notes: 1. Boreholi at 6.10 r water at 2.Water tab complet stem au 21, 201 3. PP = po 4. GR., SA Sand, S	e was found to caved in mbgs with freestanding .5.18 mbgs upon completion. le was measured upon ion of drilling inside the hollow ger on June 24 and October 9. cket penetrometer. ., SI. & CL. denote Gravel, ilt & Clay respectively.												
•)) C·LAVALIN	⊻ Groundw ⊈ Groundw	ater de vater de	pth on	comple served c	tion of 0	drilling: 10/2019	5.18 n at a dept	1 th of: <u>3</u> .	<u>16 m</u> .	Cave in depth records	ed on co	mpletior	of drilling: <u>6.1 m</u> .

lient	t: City of Brampton						Drilling	g Method:	200 mm Ho	llow Stem Augering		(Compiled by: NT
rojeo	ect Name: Phase II Environmental Site	Assess	ment				Drilling	g Machine:	Track Mount	ted Drill		F	Reviewed by: MT
ocat	tion: 10192 Hwy 50, Brampton, ON						Date	Started:	Jun 12, 201	9 Date Completed: Jun	19, 2019	<u>)</u> F	Revision No.: 0
_	LITHOLOGY PROFILE	SO	IL SA	MPLI	NG			FIELD	TESTING		Z	EAS	TING: 606355.8
	DESCRIPTION	Sample Type	Sample Number	Recovery (%)	SPT 'N' Value	DEPTH (m)	ELEVATION (m)	Penetrat ○ SPT MTO Vane* △ Intact ▲ Remould * Undrained She 20 40	on Testing ● DCPT Nilcon Vane* ◇ Intact ◆ Remould tara Strength (kPa) 60 80		INSTRUMENTATIC	Unit Weight (KN/m3)	HING: 4852008.7
l	Loose overbourden asphalt~ 760 mm.	ss	01	52		-							Top of Riser Elevation = 210.77 m;
	209.: NATIVE TILL 0.6	2	01	52			209 -						Height of Riser =0.92 m
	some silt, moist.	SS	02	64	15		200	0			-		Sample submitted for laboratory analysis: BH33-02
		SS	03	100	17		208 -	0					Sample submitted for laboratory analysis:
ł	hard	SS	04	100	37	- 2 -		0					BH33-03
		ss	05	100	30		207 -	0					
	very stiff	ss	06	85	20		-	0					
	becomes hard	ss	07	100	58	- - - - - -	206 -		0				Sample submitted for laboratory analysis:
		ss	08	72	61		-		0				6100-07
	some sand pockets	SS	09	31	36	5	205 -	0					
		ss	10	100	33		204 -	0					
t	trace to some sand.	ss	11	100	32		-	0					
		SS	12	100	58	- - - - - 7	203 -		0		· · · · · · · · · · · · · · ·		
	End of borehole. 7.3 Notes:	5				-	-						
	 Borehole was found to be open with no freestanding water upon completion. Water table was measured upon completion of drilling inside the hollow stem auger on June 24 and October 21, 2019. 												
		tandiac	are	huster -			nonka		mplotion of day	ling			
)	U LAVALIN ↓ No frees	standing	ground	lwater r	neasur	ed in c	pen bor	ehole upon co	mpletion of dri	lling.			

R	ECORD	OF BOREHOL	E No	•	<u>BH:</u>	<u>35/N</u>	<u>/W</u>	<u>35</u>							
Pro	ject Number:	665125							Drilling	g Location:	As per boreh	nole location plan		L	ogged by: MF
Clie	ent:	City of Brampton							_ Drilling	g Method:	150 mm Ho	llow Stem Augering		(Compiled by: <u>NT</u>
Pro	ject Name:	Phase II Environmental	Site Asse	essr	nent				_ Drilling	g Machine:	Track Mount	ted Drill		F	Reviewed by: MT
Loc	ation:	10192 Hwy 50, Brampton	n, ON						_ Date S	started:	Jun 12, 2019	9 Date Completed: Jun	12, 2019	<u> </u>	Revision No.: 0
	LITH			SOI	L SA	MPLI	NG			FIELD		★ Rinse pH Values	N	EAS NORT	TING: 606263.02 HING: 4852084.8
Lithology Plot	Local Ground	DESCRIPTION Surface Elevation: 209.19	m Source and the second s	calliple Type	Sample Number	Recovery (%)	SPT 'N' Value	DEPTH (m)	ELEVATION (m)	Penetrat ○ SPT MTO Vane* △ Intact ▲ Remould * Undrained Shi 20 40	● DCPT Nilcon Vane* ◇ Intact ◆ Remould ear Strength (kPa) 60 80	2 4 6 8 10 12 Soil Vapour Reading △ parts per million (ppm) 100 200 300 400 ▲ Lever Explosive Limit (LEL) Values Contem (%) Moisture Contem (%) We 20 40 60 80	INSTRUMENTATI INSTALLATION	Unit Weight (KN/m3)	COMMENTS
	Topsoil ~15	0 mm.	209.1 0.2	<u>م</u>	01	67	3	E	209 -						Top of Riser Elevation = 210.09m;
·ич	Brown, soft, moist.	silty CLAY, trace gravel,	208.5	_	01		5		-						Height of Riser= 0.90 m PP = 0.5 kg/ sq-cm
	Brown, stiff trace gravel	to very stiff, sandy silty CL , some oxidation, moist.	AY, s	s	02	100	10		208 —	0					PP = 3.0 kg/ sq-cm
			s	s	03	100	27	- - - - - 2		0					Sample submitted for laboratory analysis: BH35-03 PP = 4.0 kg/ sq-cm
	becomes ha	ard	s	s	04	100	32			0					PP = 4.5 kg/ sq-cm
			s	s	05	100	38		206 -	0					PP = 3.0 kg/ sq-cm
			s	s	06	0	31	- - 4 - 4	205 —	0					
	becomes br	ownish grey, stiff.	s	s	07	100	14	- 5	-	0					Sample submitted for laboratory analysis: BH35-07
	becomes ve	ery stiff.	s	s	08	0	20		204	0					
			s	s	09	67	20		203 -	0					PP = 3.5 kg/ sq-cm
	Grey, very c broken cobb	lense, silty SAND, trace cla ble pieces, moist.	<u>201.6</u> ay7.6 <u>S</u>	S	10	67	50/ 15(- - - - - - - - - - - - - - - - - - -	202 -						
									201 —				· · · · ·		
	End of hore	hole.	199.5 9.8	s	11	100	58		200		0		· · · · · · · · · · · · · · ·		PP = 4.5 kg/ sq-cm
	 Notes: Borehol with no complet Water ta complet hollow s and Oct 	e was found to be open freestanding water upon ion. able was measured upon ion of drilling inside the tem auger on June 24 ober 21, 2019.													
	»	∑ No	freestand	ling g	ground	water r	neasur	ed in o	pen bor	ehole upon co	mpletion of dril	lling.			•
SNO	·LAVALIN	 Ţ Gr	oundwate	r dep	oth obs	erved o	on <u>21/</u>	10/201	<u>9</u> at a de	pth of: <u>2.</u>	<u>39 m</u> .				
401 Vau Tel:	Hanlan Rd ghan, Ontario L 905-851-0090	4L 3T1 Borehole from a qu commisio	details as pr alified Geote oned and the	resen echnic acco	ted, do r cal Engin mpanyir	not const neer. Als ng'Notes	titute a t o, boreh to Reco	horough Iole info Ird of Bo	n understa rmation sh preholes'.	nding of all pote would be read in	ntial conditions pre conjunction with th	esent and requires interpretative a he geotechnical report for which it	assistance t was		Scale: 1 : 63

lient:	City of Brampton						Drillin	g Method:	150 mm Ho	llow Stem Augering		(Compiled by: <u>NT</u>
roject Name:	Phase II Environmental Site A	ssess	ment				Drillin	g Machine:	Track Mount	ted Drill		F	Reviewed by: MT
ocation:	10192 Hwy 50, Brampton, ON						Date	Started:	Jun 11, 201	9 Date Completed: Jun	11, 2019	<u>)</u> F	Revision No.: 0
LITH		SO	IL SA	MPLI	NG			FIELD	TESTING	LAB TESTING	z	EAS	TING: 606376.62
5	DESCRIPTION	le Type	le Number	very (%)	N' Value	H (m)	ATION (m)	Penetrat ○ SPT MTO Vane* △ Intact ▲ Remould	ion Testing ● DCPT Nilcon Vane* ◇ Intact ◆ Remould		RUMENTATIOI ALLATION	Weight N/m3)	HING: 4851797.58 COMMENTS
Local Ground	Surface Elevation: 208.94 m	Samp	Samp	Reco	SPT '	DEPT	ELEV	* Undrained She 20 40	ear Strength (kPa) 60 80	Atterberg Limits W _P 20 40 60 80	INSTF INST/	Chit (K	
Top Soil ~1 FILL Brown, firm	50 mm. 208.8 0.2 , silty CLAY, trace gravel,	SS	01	84	7			0					Top of Riser Elevation = 209.94 m; Height of Riser= 1.00 m
trace to sor	ne sand, rootlets, moist.	SS	02	100	7	- - - - - - -	208 -	0					PP = 2.0 Kg / sq.cm Sample submitted for
	207.5 L 1.5												BH51-02 PP = 2.5 Kg / sq.cm
to some gra moist.	v stiff, sandy silty CLAY, trace avel, trace sand, oxidised,	SS	03	100	17	2	207 -	0			Ţ		PP = 4.0 Kg / sq.cm
	205.9	SS	04	100	17		206 -	0					
Brown, den trace grave oxidised, m	se to very dense, sandy SILT3.1 I, trace to some sand, oist.	SS	05	100	30			0					PP = 4.5 Kg / sq. cm
		SS	06	100	50 / 125 mm	- - - - -	205 -						PP = 4.5 Kg / sq. cm
some grave	1	SS	07	33	48	5	204 –		þ				
GR: 23%; S	A: 26%; SI: 37%; & CL: 14%	SS	08	25	26		203 -	0					Sample submitted for laboratory analysis: BH51-08 PP = 4.5 Kg / sq. cm
	202.3	SS	09	100	38		200	0					
End of bore Notes:	hole. 6.7												
 Borehoi 3.05 mt 4.72 mt Water tat compleistem au 21, 20' PP= Poister 4. GR., SA Sand, S 	e was found to be caved in at gs with freestanding water at igs upon completion. le was measured upon ion of drilling inside the hollow iger on June 24 and October 9. cket Penetrometer. v., SI. & CL. denote Gravel, ilt & Clay respectively.												
•))	∑ Groundw	vater de	pth on (complet	tion of	drilling	g: <u>4.72</u>	 					

ampton invironmental Site Asset y 50, Brampton, ON ROFILE TION vation: 208.13 m 208.0 0.2 silty CLAY, trace s silty CLAY, trace S 204.5 3.7	sessment SOIL S Suble Libe SS 01 SS 01 SS 02 SS 02 SS 02 SS 02 SS 03 SS 02 SS 03 SS 04 SS 05	E AMPLI (%) Kiavooaa 59 67 100 100	ng anita	DEPTH (m)		A Location: Method: Machine: Started: FIELD Penetrat ○ SPT MTO Vane* A Intact A Remould * Undrained She 20 40 ○	As per boreh 150 mm Ho Track Mount Jun 12, 2019 TESTING ion Testing ● DCPT Nilcon Vane* ◆ Intact * Remould aar Strength (kPa) 60 80	Ilow Stem Augering Ilow Stem Augering ted Drill Date Completed: Jun ? LAB TESTING * Rinse pH Values 2 4 6 8 10 12 Soil Vapour Reading parts per million (ppm) 100 200 300 400 Lower Explosive Limit (LEL) × Pasing 75 um (%) 0 Moisture Content (%) Wp 20 40 60 80 WL	INSTRUMENTATION	Unit Weight U 4 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	MF Compiled by: MT Reviewed by: MT Revision No.: 0 TING: 606283.85 HING: 4851873.71 COMMENTS PP = 2.0 Kg / sq.cm PP = 4.5 Kg / sq.cm
ampton invironmental Site Assur- g 50, Brampton, ON ROFILE TION vation: 208.13 m 208.0 0.2 , trace sand, trace ts, oxidized, moistr, 4 isilty CLAY, trace S S 204.5 3.7	Sessment SOIL S. Sample Type Sample Number SS 02 SS 03 SS 03 SS 03 SS 04 SS 04 SS 05	AMPLI (%) /Janoooga 59 67 100 100	NG aniteA.N. LdS 5 17 22 23	DEPTH (m)	2007 – 2006 – 20	Method: Machine: Started: FIELD Penetrat O SPT MTO Vane* ▲ Intact Remould *Undrained She 20 40 O	150 mm Ho Track Mount Jun 12, 2019 TESTING ion Testing • DCPT Nilcon Vane* • Intact • Remould ear Strength (kPa) 60	Ilow Stem Augering ted Drill 2 Date Completed: Jun 1 LAB TESTING * Rinse pH Values 2 4 6 8 10 12 Soil Vapour Reading 100 200 300 400 • Lower Explosive Limit (LEL) * Passing 75 un (%) • • Moisture Content (%) • • • • Wrs20 40 60 80 ₩/.	INSTRUMENTATION	Unit Weight J H I I I I I I I I I I I I I I I I I I	Compiled by: NT Reviewed by: MT Revision No.: 0 TING: 606283.85 HING: 4851873.71 COMMENTS PP = 2.0 Kg / sq.cm PP = 4.5 Kg / sq.cm
invironmental Site Asset y 50, Brampton, ON ROFILE PTION vation: 208.13 m 208.0 0.2 y face sand, trace ts, oxidized, moigh7.4 0.8 silty CLAY, trace S 204.5 3.7	Source of the search of the se	t AMPLI (%) /\ianocome 59 67 100 100	ng anita 5 5 17 22 23	(III)		Machine: Started: FIELD Penetrat ○ SPT MTO Vane* △ Intact ▲ Remould * Undrained She 20 40 ○	Track Mount Jun 12, 2019 IESTING ion Testing ● DCPT Nilcon Vane* ◆ Remould aar Strength (kPa) 60 80	LAB TESTING ★ Rinse pH Values 2 4 6 8 10 12 Soil Vapour Reading pats per million (ppm) 100 200 300 400 ▲ Lower Explosive Limit (LEL) × Passing 75 um (%) • Moisture Content (%) Wp 20 400 60 80	INSTRUMENTATION	Unit Weight (KN/m3) 41 4 (KN/m3)	Reviewed by: MT Revision No.: 0 TING: 606283.85 HING: 4851873.71 COMMENTS PP = 2.0 Kg / sq.cm PP = 4.5 Kg / sq.cm
vation: 208.13 m vation: 208.13 m rTION vation: 208.13 m (1) (1) vation: 208.13 m (1) vation: 208.13 m (1	Source and the second s	AMPLI (%) / havogan 59 67 100 100	NG entropy N.N. LdS 5 17 22 23	2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Date S (iii) (iii) 208 - 207 - 207 - 206 -	Started: Penetrat ○ SPT MTO Vane* △ Intact ▲ Remould * Undrained She 20 40 ○	Jun 12, 2019 TESTING ion Testing • DCPT Nilcon Vane* • Intact • Remould 60 80	Date Completed: Jun * LAB TESTING * Rinse pH Values 2 4 6 10 12 Soil Vapour Reading parts per million (ppm) 100 200 300 400 • Dever Emillion (ppm) 100 200 300 400 • • Lower Explosive Limits Ws Passing 75 um (%) • • • Mosture Content (%) Atterberg Limits • • • Vs_20 40 60 80 • •	INSTRUMENTATION	Unit Weight EAS NORTH (KN/m3) (KN/m3)	Revision No.: 0 TING: 606283.85 HING: 4851873.71 COMMENTS PP = 2.0 Kg / sq.cm PP = 4.5 Kg / sq.cm
ROFILE TION 208.0 U.2 S vation: 208.13 m 208.0 U.2 S , trace sand, trace s, oxidized, moistra, 4 silty CLAY, trace S s silty CLAY, trace S S 204.5 S	Sample Type Sample Type Sample Number Sample Number SS 05 SS 02 Sample Number SS 02	AMPLI (%) (%) (%) (%) (%) (%) (%) (%) (%) (%)	ng aniteA.N.Lds 5 17 22 23	(m) HLG30	(m) 208 - 207 - 207 - 206 -	FIELD [•] Penetrat ○ SPT MTO Vane* △ Intact ▲ Remould • Undrained She 20 40 ○	TESTING ion Testing ● DCPT Nilcon Vane* ◇ Intact ◆ Remould ear Strength (kPa) 60 80	LAB TESTING ★ Rinse pH Values 2 4 6 8 10 12 Soil Vapour Reading △ parts per million (ppm) 100 200 300 400 ▲ Lower Explosive Limit (LEL) ★ Pasing 75 um (%) Wp 20 40 60 80 WL	INSTRUMENTATION INSTALLATION	Unit Weight Naight SS (KN/m3) SS SS	TING: 606283.85 HING: 4851873.71 COMMENTS PP = 2.0 Kg / sq.cm PP = 4.5 Kg / sq.cm
vation: 208.13 m 0 208.0 0.2 , trace sand, trace s s, oxidized, mojetr 4 0.8 silty CLAY, trace s	Sample Type 10 55 23 Sample Type 20 55 23 23 24 25 25 52 26 53 27 53 28 50 29 53 20 53 21 54 22 54 23 54 24 55	(%) 59 67 100 100	5 17 22 23	2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2007 – 2006 – 2006 –	Penetrat ○ SPT MTO Vane* △ Intact A Remould * Undrained She 20 40 ○ ○	ion Testing DCPT Nilcon Vane* <hr/> ntact Remould aar Strength (kPa) 60 80	2 4 6 8 10 12 Soil Vapour Reading parts per million (ppm) 100 200 300 400 ▲ Lower Explosive Limit (%) 0 Statistical (%) O Moisure Content (%) Atterberg Limits Wp WL	INSTRUMENTATIC INSTALLATION	Unit Weight (KN/m3)	PP = 2.0 Kg / sq.cm PP = 4.5 Kg / sq.cm
vation: 208.13 m 0 208.0 0.2 S , trace sand, trace ts, oxidized, moist7.4 • silty CLAY, trace S S 204.5 3.7	Ø Ø SS 01 SS 02 SS 02 SS 03 SS 04 SS 05	<u>67</u> 100 100	5 5 17 22 23		208	20 40 O	60 80	20 40 60 80 -			PP = 2.0 Kg / sq.cm PP = 4.5 Kg / sq.cm
0.2 S , trace sand, trace ts, oxidized, moight, 4 0.8 S silty CLAY, trace S S 204.5 S 3.7	SS 01 SS 02 SS 03 SS 04 SS 04 SS 05	59 67 100 100	5 17 22 23	1	207	0					PP = 2.0 Kg / sq.cm PP = 4.5 Kg / sq.cm
silty CLAY, trace s s s s 204.5 3.7	SS 02 SS 03 SS 04 SS 04 SS 05	67 100 100	17 22 23	1	207	0					PP = 4.5 Kg / sq.cm
S 204.5 3.7	SS 03 SS 04 SS 05	100	22	- - - - - -	206 —	0					
s 204.5 3.7	SS 04 SS 05	100	23	È i		1 1 1					Sample submitted for laboratory analysis: BH52-03 PP = 4.0 Kg / sq.cm
S 204.5 3.7	SS 05			- 3		0					PP = 4.5 Kg / sq. cm
		100	28	-	203	0					
d to be caved in reestanding water completion. pasured inside ger upon ometer.											
	⊻ No freestar	∑_ No freestanding grout	∑ No freestanding groundwater	∑_ No freestanding groundwater measure	Image: Second state in the second s	No freestanding groundwater measured in open bore	∑ No freestanding groundwater measured in open borehole upon co	∑ No freestanding groundwater measured in open borehole upon completion of dril	Yes No freestanding groundwater measured in open borehole upon completion of drilling.	Image: Second state in the second	∑ No freestanding groundwater measured in open borehole upon completion of drilling.

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R	ECORD	OF BOREH		lo.	<u>BH</u>	70/N	<u>wn</u>	<u>70</u>							
Pro	oject Number:	665125							Drilling	g Location:	As per borel	hole location plan		L	ogged by: MF
Cli	ent:	City of Brampton							_ Drilling	g Method:	150 mm Ho	bllow Stem Augering		(Compiled by: <u>NT</u>
Pro	oject Name:	Phase II Environm	ental Site A	ssess	ment				_ Drilling	g Machine:	Track Mount	ted Drill		F	Reviewed by: MT
Loo	cation:	<u>10192 Hwy 50, Brai</u>	mpton, ON						_ Date S	Started:	Jun 11, 201	9 Date Completed: Jun	11, 2019	- F	Revision No.: 0
	LITH	OLOGY PROFILE	_	SO	IL SA	MPLI	NG			FIELD	TESTING	LAB TESTING Kinse pH Values	z		TING: 606239.26
Lithology Plot	Local Ground	DESCRIPTION	207.53 m	Sample Type	Sample Number	Recovery (%)	SPT 'N' Value	DEPTH (m)	ELEVATION (m)	Penetrat ○ SPT MTO Vane* △ Intact ▲ Remould * Undrained Sh 20 40	tion Testing ● DCPT Nilcon Vane* ◇ Intact ◆ Remould ear Strength (kPa) 60 80	2 4 6 8 10 12 Soil Vapour Reading parts per million (ppm) 100 200 400 Lower Explosive Limit (LEL) * Passing 75 um (%) 4 4 4 Moisture Content (%) Moisture Content (%) 4 6 8 6 W _P 20 40 60 80 4 6 8 6	INSTRUMENTATION INSTALLATION	Unit Weight (KN/m3)	COMMENTS
	Top Soil ~1	50 mm.	207.4 0.2		01	100	F	-	-						Top of Riser Elevation = 208.47 m;
KI?	Brown, firm trace sand, NATIVE TIL	, silty CLAY, trace gra rootlets, moist. L	avel, 206.8 0.8				5		207 -						Height of Riser= 0.94 m Sample submitted for laboratory analysis: BH70-01
	Brown, stiff some grave	to very stiff, sandy si I, trace sand, oxidise	Ity CLAY, ed, moist.	SS	02	16	12			0					PP = 2.5 Kg / sq.cm
				SS	03	100	19	- - - 2	206	0					PP = 4.0 Kg / sq.cm
				SS	04	100	25		205 —	0			¥. 		PP = 4.5 Kg / sq. cm
	Grey, comp some grave	act, SILT, trace to so I, trace sand, moist.	20 <u>4.5</u> ome clay3.1	SS	05	100	14		204 —	0					PP = 3.0 Kg / sq.cm
				SS	06	100	14	- - - - - -	-	0					PP = 3.0 Kg / sq.cm
	Grey, comp grael, trace	act, SILT to silty SAN clay, moist	<u>203.0</u> ND, trac d .6	SS	07	8	20		203 -	0					
				SS	08	8	29		202 —	0					
	very dense			SS	09	80	50 / 100 mm		201 -						
	· · ·							- - - - - - -	-						
	End of bore	hole	<u>199.5</u> 8.1	SS	10	0	86 / 280 mm		200 -						
	Notes: 1. Borehol with no 4.42 mt 2.Water tab complet stem au 21, 201 2. PP= Po	e was found to be op freestanding water a ogs upon completion. le was measured up ion of drilling inside t ger on June 24 and 9. cket Penetrometer.	oen t on the hollow October												
•	•))		$\frac{\nabla}{\overline{z}}$ No freest	tanding	groun	dwater	measu	red in	open bo	rehole upon	completion of		<u> </u>		1
SN (C•LAVALIN Hanlan Rd		drilling. (Ground	water o	depth o	bserve		21/10/20	19 at a depth	ntial conditions	esont and requires intermetative -	reciptoros		
Vau Tel:	ughan, Ontario L 905-851-0090	4L 3T1 fr	om a qualified G ommisioned and	Beotechn the acc	ical Engi ompanyi	ineer. Als ng'Notes	to Reco	ole info rd of Bo	rmation shoreholes'.	hould be read in	conjunction with t	he geotechnical report for which i	t was		Scale: 1 : 63 Page: 1 of 1

R	ECORD	OF BORE	HOLE N	0.	BH	<u>72</u>									
Pro	ject Number:	665125							Drilling	g Location:	As per bore	hole location plan		L	ogged by: AB
Clie	ent:	City of Brampton							Drilling	g Method:	200 mm Ho	bllow Stem Augering		(Compiled by: <u>NT</u>
Pro	ject Name:	Phase II Environ	mental Site A	ssess	ment				Drilling	g Machine:	Track Moun	ted Drill		F	Reviewed by: MT
Loc	ation:	10192 Hwy 50, Bi	ampton, ON						Date	Started:	Jun 20, 201	9 Date Completed: Jun :	20, 2019	<u>)</u> F	Revision No.: 0
	LITH	OLOGY PROFIL	E	SO	IL SA	MPLI	NG			FIELD	TESTING	LAB TESTING	z	EAS	TING: 606359.9
ogy Plot		DESCRIPTION		ile Type	le Number	very (%)	N' Value	H (m)	ATION (m)	Penetra ○ SPT MTO Vane* △ Intact ▲ Remould	tion Testing ● DCPT Nilcon Vane* ◇ Intact ◆ Remould	K 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 (%) Micircure Candral (%)	RUMENTATIO ALLATION	t Weight N/m3)	HING: 4851769.6 COMMENTS
lithol	Local Ground	Surface Elevation:	208 98 m	Samp	Samp	Seco	SPT '	DEPT	ELEV	* Undrained Sh 20 40	ear Strength (kPa) 60 80	Atterberg Limits	NSTF NST/	Enit A	
	Topsoil~ 10	0 mm.	200.30 III 208.9 0.1	0,	0)	<u> </u>	0,	-		20 40		20 40 00 00			Sample submitted for
<u>k</u> r	FILL Brown, com NATIVE TIL	pact, gravelly SAN L	D, moist _{208.4} 0.6	SS	01	66	28		-						laboratory analysis: BH72-01
	Light brown black seam,	stiff, sandy silty C moist.	LAY, thin	SS	02	82	9	- - 1	208 -	0					Sample submitted for laboratory analysis: BH72-02
				SS	03	100	20		-	0					Sample submitted for
	becomes ha	rd		SS	04	100	33	- 2 - 2	207 -	0					BH72-03
				SS	05	66	49	- 3	206 -		0				
				SS	06	100	48	-			0				
			204.7	SS	07	0	50/ 125 mm	- 4	205 -						
	Grey, dense trace clay, n	to very dense, sa noist.	ndy SILT, 4.3	SS	08	100	49		-		0				
	E		204.0	SS	09	<u>100</u>	50/ 125 mm	- 5-							
	Notes: 1. Boreholi with no 1 complet 2. Water ta complet hollow s	e was found to be reestanding water on. ble was measured on of drilling inside tem auger.	open iupon d upon e the												
))		⊻ No freest	anding	ground	lwater r	neasure	l ed in o	pen bor	ehole upon co	ompletion of dri	l			
SNO	·LAVALIN	-	=									-			
401 Vau Tel:	ghan, Ontario L4 905-851-0090	IL 3T1	Borehole details a from a qualified G commisioned and	as preser leotechni I the acco	nted, do i ical Engi ompanyi	not cons neer. Als ng'Notes	titute a th o, boreh to Recor	orough ole infor d of Bo	understa rmation sl reholes'.	nding of all pote hould be read in	ential conditions pr conjunction with t	esent and requires interpretative a the geotechnical report for which it	ssistance was		Scale: 1 : 63 Page: 1 of 1

RECORD Project Number: Client: Project Name: Location:	OF BOREHOLE N 665125 City of Brampton Phase II Environmental Site A 10192 Hwy 50, Brampton, ON	IO.	BH ment	<u>73</u>			_ Drillin _ Drillin _ Drillin _ Drillin	g Location: g Method: g Machine: Started:	As per bore 200 mm Ho Track Moun Jun 20, 201	hole location plan blow Stem Augering ted Drill 9 Date Completed: <u>Jun</u> :	20, 2019	L C F 9 F	Logged by: <u>AB</u> Compiled by: <u>NT</u> Reviewed by: <u>MT</u> Revision No.: <u>0</u>
LITH	OLOGY PROFILE	SC	IL SA	MPLI	NG			FIELD	TESTING		z	EAS	TING: 606362
Local Ground	DESCRIPTION Surface Elevation: 208.83 m	Sample Type	Sample Number	Recovery (%)	SPT 'N' Value	DEPTH (m)	ELEVATION (m)	Penetrat ○ SPT MTO Vane* △ Intact ▲ Remould * Undrained Sh 20 40	ion Testing ● DCPT Nilcon Vane* ◇ Intact ● Remould ear Strength (kPa) 60 80	★ Ruise privatives 2 4 6 8 10 12 Soil Vapour Reading △ parts per million (ppm) 100 200 300 400 ▲ Lower Explosive Limit (LEL) * Passing 75 un (%) ○ Moisture Content (%) ★ Atterberg Limits We 20 40 60 80	INSTRUMENTATIC INSTALLATION	Unit Weight (KN/m3)	HING: 4851771.2
Topsoil~ 10 FILL Brown com	0 mm. 208,7	SS	01	100	30	-		0					
NATIVE TIL Light brown, trace gravel	L 0.6 , stiff, silty CLAY, some sand, , moist.	SS	02	82	11	- - - - 1	208 -	0					Sample submitted for laboratory analysis:
Light brown, CLAY, trace	, very stiff to hard, silty sandyl.2 gravel, moist.	ss	03	100	25	-		0					BH73-02
becomes ha	ard	ss	04	100	35	2	207 -	0					
		SS	05	66	40		206 -	0					
		SS	06	100	48				0				
		SS	07	100	50	- - 	205 -		0				Sample submitted for laboratory analysis: BH73-07
		SS	08	70	50/ 125 mm		204 -						
		SS	09	100	52	5			0				
	202.7	ss	10	100	63	- 6	203 -		0				
Notes: 1. Borehold with no f completi 2. Water ta completi hollow s	e was found to be open freestanding water upon ion. able was measured upon ion of drilling inside the tem auger.												
•))	⊻ No freest	tanding	ground	dwater r	neasure	ed in o	pen bor	ehole upon co	ompletion of dri	lling.			
NC • LAVALIN 01 Hanlan Rd aughan, Ontario L ² el: 905-851-0090	4L 3T1 Borehole details from a qualified (commisioned and	as prese Geotechn d the acc	nted, do hical Eng companyi	not const ineer. Als ng'Notes	titute a th o, boreh to Recor	orough ole info rd of Bo	n understa rmation s preholes'.	nding of all pote nould be read in	ntial conditions pr conjunction with t	esent and requires interpretative a he geotechnical report for which it	ssistance was	1	Scale: 1 : 6

R	ECORD	OF BOREHOLE	No.	<u>BH</u>	74/N	NW 7	<u>74</u>								
Pro	ject Number:	665125						Drilling	g Location:	As per borel	hole location plan		L	.ogged by: JP	
Clie	ent:	City of Brampton						Drilling	g Method:	200 mm Ho	bllow Stem Augering		(Compiled by: <u>NT</u>	
Pro	ject Name:	Geotechnical Investigation-J	ohnstoi	n Trans	sit Fac	ility		Drilling	g Machine:	Track Mount	ted Drill		F	Reviewed by: MT	
Loc	ation:	Brampton						Date	Started:	Oct 16, 2019	9 Date Completed: Oct 1	16, 2019	<u>)</u> F	Revision No.: 0	
	LITH	OLOGY PROFILE	SC	DIL SA	MPLI	NG			FIELD	TESTING	LAB TESTING	z	EAS	TING: 606484.167	
nology Plot		DESCRIPTION	mple Type	mple Number	covery (%)	T 'N' Value	PTH (m)	EVATION (m)	Penetrat ○ SPT MTO Vane* △ Intact ▲ Remould	ion Testing DCPT Nilcon Vane* Intact Remould	A Hinse pH values 2 4 6 8 10 12 Soil Vapour Reading parts per million (ppm) 100 200 300 400 Lower Explosive Limit (LEL)	STRUMENTATIO STALLATION	Init Weight (KN/m3)	HING: 4851890.911	
-Lit	Local Ground	Surface Elevation: 207.93 m	Sal	Sai	Re	Ъ	H		20 40	60 80	W _P 20 40 60 80	<u>ZZ</u>		Top of Riser = 208 82 m	
	FILL Light brown, clay, moist.	loose, silty SAND, some	2 SS	01	100	13		-	0		o ¹⁸			Height of Riser = 0.89 m Sample submitted for laboratory analysis : BH74-01	
	NATIVE TIL Light brown, trace gravel	L 0.4 , hard, sandy silty CLAY, , moist.	ss	02	100	31	- - - - - -	207 -	0		o ¹¹			Sample submitted for laboratory analysis : BH74-02	
			ss	03	100	38	- - - - - - 2	206 -	0						
			SS	04	100	55		205 -		0					
	SS 05 100 70 204.1 Brown to light brownish grey, very denset 8 sitty SAND, trace clay, moist to wet. SS 06 100 70 4 204 - 0 0 0 ¹¹ Sample submitte														
	Brown to light brownish grey, very denset 8 SS 06 100 70 4 204 0 011 Sample submitter for laboratory analysis : BH74 Light greyish brown, very dense, SAND, 4.6														
	203.4 203.4 analysis : BH74 an														
	becomes compact. 202.0 Borehole cave mbal due to we														
	End of Bore Notes:	hole. 5.0)					202							
	1. Borehole 5.64 mb water	e was found to cave at gs and no freestanding													
	2. Water ta completi hollow s October	ble was measured upon on of drilling inside the tem auger and on 21,2019.													
		⊻ No free	standing	ground	dwater r	neasure	ed in o	pen bor	ehole upon co	mpletion of dri	lling.	•			
SNO	·LAVALIN	Ground	water de	pth obs	served o	on <u>21/</u>	10/201	<u>9</u> at a de	pth of: <u>2.</u>	<u>59 m</u> .					
401 Vau Tel:	Hanlan Rd ghan, Ontario L4 905-851-0090	L 3T1 Borehole detai from a qualifier commisioned a	s as prese I Geotechr nd the acc	nted, do nical Eng companyi	not cons ineer. Als ng'Notes	titute a th o, boreh to Recor	norough ole info rd of Bo	understa mation sl reholes'.	nding of all pote nould be read in	ntial conditions pr conjunction with t	esent and requires interpretative a he geotechnical report for which it	ssistance was		Scale: 1 : 63 Page: 1 of 1	

R	ECORD OF BOREHOLI	E No.	<u>BH</u>	75/N	/ W	<u>75</u>							
Proj	ject Number: 665125						Drilling	Location:	As per borel	hole location plan		L	ogged by: JP
Clie	ent: City of Brampton						Drilling	Method:	200 mm Ho	bllow Stem Augering		(Compiled by: <u>NT</u>
Proj	ject Name: Geotechnical Investigation	n-Johnsto	n Trans	sit Faci	ility		Drilling Machine: Track Mounted Drill			Reviewed by: MT			
Loc	ation: Brampton						Date S	started:	Oct 16, 2019	9 Date Completed: Oct '	16, 2019) F	Revision No.: 0
		SC	DIL SA	MPLI	NG			FIELD	TESTING	* Rinse pH Values	NO	EAS	TING: 606531.454 HING: 4851945.297
Lithology Plot	DESCRIPTION	Sample Type	Sample Number	Recovery (%)	SPT 'N' Value	DEPTH (m)	ELEVATION (m)	O SPT MTO Vane* △ Intact A Remould * Undrained She 20 40	DCPT Nilcon Vane* Intact Remould ear Strength (kPa) 60 80	2 4 9 8 10 12 Soil Vapour Reading A parts per million (ppm) 100 200 300 400 ▲ Lower Explosive Limit (LEL) # Passing 75 um (%) Moisture Content (%) Moisture Content (%) ▲ Miterberg Limits W_A Atterberg Limits W.	INSTRUMENTATI INSTALLATION	Unit Weight (KN/m3)	COMMENTS
	FILL Light brown, very stiff, silty CLAY, trace gravel, moist.	e ss 207.3	01	100	16			0		0 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 —	0		0 ¹⁸			Sample submitted for laboratory analysis : BH75-02
		SS	03	100	33	- - - - - 2	206 -	0					
0	NATIVE TILL Light brown to brownish grey, hard, sandy silty CLAY, moist.	2.3 SS	04	100	89 / 255 mm								Some grey clay mottling.
		SS 204.3	05	74	72		205		0				Comple submitted
	Light brownish grey, silty CLAY, some sand, moist.	^{3.8} SS 203.8	06	100	50 / 125 mm	- - 4 -	204 -			o ¹¹			for laboratory analysis : BH76-06
	 Borehole was found to be open and no freestanding water. Water table was measured upon completion of drilling inside the hollow stem auger and on October 21,2019. 												at 4.27 mbgs.
	>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	freestanding	ground	dwater r	neasur	ed in o	pen bore	ehole upon co	mpletion of dri	lling.			
401 Vaug Tel: 9	Instruction Image: Construction of the second sec	details as prese alified Geotech ned and the acc	ented, do nical Engi companyi	not const ineer. Als ng'Notes	titute a th o, boreh to Recor	10/2019 norough ole infor rd of Boi	at a de understa mation sh reholes'.	pth of: <u>3.4</u> nding of all pote ould be read in a	41 m. ntial conditions pr conjunction with t	esent and requires interpretative a he geotechnical report for which it	issistance t was		Scale: 1 : 63 Page: 1 of 1

Appendix C

MECP Well Records (Pending)

Appendix D

Legal Survey





I REQ DEPOS LAND	UIRE THIS PLAN ⁻ SITED UNDER THE TITLES ACT.	fo be	Plan 43R- Received and deposited					
DATE	:	,2018	_,2018 DATE : _			:		
 0N1	MICHELE PEARSO ARIO LAND SURV	REPRESENTATIVE FOR THE REGISTRAR FOR THE LA TITLES DIVISION OF PE REGION (No. 43)						
		Sche	dule					
PART	PART OF LOT	CONCES	SION	PART OF	PIN	AR		
1	LOT 12	11 NORTHERN	DIVISION	14213–0	300			
PLAN O PART CONC CIT REGI GEOGRA COUNTY SCALE 1: DISTANCE DISTANCE AND CAN BY A CO	F SURVEY OF OF LOT ESSION YOF ONAL MU PHIC TOWNSHI OF PEEL 1000 CON & PEARSON Land Surveyo ing Note S SHOWN HEREON CE POINTS (ORP'S TIONS, UTM ZONE S SHOWN ON TH BE BE USED TO MBINED SCALE FA	12 11, NO BRA NICIPA P OF TOR SURVEYING ARE GRID, S) A & B B 17, NAD 83 E PLAN ARE COMPUTE CA ACTOR OF 0.	RTHE MPT LITY DNTO G DERIVED Y REAL 3 (CSRS CSRS CSRS CSRS CSRS CSRS CSRS CSRS	CRN DI OF F ORE FROM OBS TIME NETWO V6) (Epoch ED GROUNE TANCES BY	ERVEL PEE 100 ERVEL RK 2010 MULT			
	Inte	egratic	on Da	ata				

Integration Data									
OBSERVED REFERENCE P OBSERVATIONS USING TH REFERRED TO UTM Zone	OINTS (ORP'S) DERIVED F IE SMARTNET NETWORK SI 17, NAD 83 (CSRS V6) (ROM GPS ERVICE AND ARE (Epoch 2010.00)							
COORDINATE VALUES ARI SECTION 14(2) OF O.REG USED TO RE-ESTABLISH	E TO URBAN ACCURACY I 2. 216/10, AND CANNOT, CORNERS OR BOUNDARIE	N ACCORDANCE IN THEMSELVES, S SHOWN ON TH							
POINT ID	NORTHING	EASTII							
ORP A	4851854, 26	606031							
ORP B	4852058. 33	606495							

Note

PARTS 4 AND 5 PLAN 43R-36614 DEDICATED AS PUBLIC HIGHWAY BY BY-LAW No. 54-2015, INSTRUMENT No. PR1809285.

Legend

	DENOTES DENOTES	SURVEY MONUMENT PLANTED SURVEY MONUMENT FOUND
SIB	DENOTES	STANDARD IRON BAR
SSIB	DENOTES	SHORT STANDARD IRON BAR
		(USED WHERE BURIED UTILITY COULD BE OF C
IB	DENOTES	IRON BAR
S	DENOTES	SET
М	DENOTES	MEASURED
OU	DENOTES	ORIGIN UNKNOWN
Р	DENOTES	PLAN M-343
P1	DENOTES	PLAN 43R-1070
D	DENOTES	INST. NO. R01032242
P2	DENOTES	PLAN 43R-5454
Р3	DENOTES	EXPROPRIATION PLAN 5543(MTO PLAN P-28
P4	DENOTES	PLAN 43R-33140
P5	DENOTES	PLAN 43R-35661
P6	DENOTES	PLAN 43R-36525
P7	DENOTES	PLAN 43R-36614
МММ	DENOTES	MMM GROUP
1670	DENOTES	R.G. PEARSON,OLS
865	DENOTES	E.BIASON,OLS
830	DENOTES	E.W.PETZOLD,OLS
1493	DENOTES	J.F.G.YOUNG,OLS
мто	DENOTES	MINISTRY OF TRANSPORTATION OF ONTARIO
CLE	DENOTES	CHAIN LINK FENCE
N /S /F /W	DENOTES	NORTH /SOUTH /FAST /WEST
N/ J/ L/ W	DENOTES	NOR IN SOUTH LAST WEST

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 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 F ONTARIO, L6A 1S1 O. : (289) 553-54 5 . michelenograph	LOOR, MA	

DRAWING : 1585-Hwy50-10192A-RP.DWG CALC. BY JM DRAWN BY TM



Appendix E

Laboratory Certificates of Analysis (Soil)

TABLE E.1: Field Blank QA/QC Results Soil Samples

10192 Highway 50, Brampton, ON

	Location	TRIP BLANK							
L	265188								
SN	Trip Blank								
Samplin	Sampling Date (yyyy/mm/dd)								
Parameter	RDL	Units							
Volatile Organic Compounds									
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	<						
Dichlerenrenene, 1,2-	0.03	µg/g	<						
Dichloropropene, 1,3-	0.04	µg/g	<						
Ethylene Dibromide (Dibromoethene, 4.2.)	0.05	µg/g							
Ethylene Dibromide (Dibromoethane, 1,2-)	0.04	µg/g	<						
Methyl Ethyl Ketene (2 Butenene)	0.05	µg/g							
Methyl Icobutyl Ketone	0.50	µg/g							
Methyl t butyl other (MTRE)	0.00	µg/g							
Methylono Chlorido	0.05	µg/g							
Styropo	0.05	µg/g µg/g	<pre></pre>						
Tetrachloroethane 1112-	0.03	µg/g µa/a	~						
Tetrachloroethane, 1,1,2-	0.04	µg/g µa/a	<						
Tetrachloroethylene	0.00	49/9 Ud/d	<						
Toluene	0.05	na/a	<						
Trichloroethane, 1.1.1-	0.05	ua/a	<						
Trichloroethane, 1,1,2-	0.04	µa/a	<						
Trichloroethylene	0.03	μα/α	<						
Trichlorofluoromethane	0.05	µq/q	<						
Vinyl Chloride	0.02	µa/a	<						
Xylenes	0.05	μα/α	<						
Xylenes, m+p-	0.05	µg/q	<						
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	RPD	BH33	BH33	RPD	BH33	BH33	RPD	BH-75	BH-75	RPD
Laboratory S	Sample ID	Limit	294685 BH33_2	294693 BH33-22		294696 BH33-7	294732 BH33-77		624941 BH-75-02	624953 BH-75-22	
Sampling Date (vyv	y/mm/dd)	100%	2019/06/19	2019/06/19		2019/06/19	2019/06/19		2019/10/16	2019/10/16	
Depth Interv	al (mbgs)		0.6 - 1.2	0.6 - 1.2		3.7 - 4.3	3.7 - 4.3		0.8 - 1.4	0.8 - 1.4	
Field Scree	en (ppmv)		<5	<5		<5	<5		20	20	
Parameter	Units			BH33-2			BH33-7			BH-75-02	
General Chemistry											
Free Cyanide	µg/g uS/cm	100%	< 0.040	< 0.040	4%	-	-	1	- 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 81	4	10%	-	-	-	4	3	13%
Bervllium	µg/g µa/a	100%	< 0.5	0.5	*	_	-	-	1	0.7	*
Bismuth	µg/g	na	-	-	-	-	-	-	0.2	0.1	*
Boron	µg/g	100%	7	8	*	-	-	-	6	7	*
Cadmium	µg/g µa/a	100%	< 0.10	< 0.10	*	-	-	-	< 0.5	< 0.5	*
Chromium (total)	µg/g	100%	19	22	15%	-	-	-	38	27	34%
Chromium (VI)	µg/g	100%	< 0.2	< 0.2	*	-	-	-	-	-	-
Copper	µg/g	100% 100%	9.1 18	10	9% 0%	-	-	1	15.2 27	11.4 20	29%
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%
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%
Selenium	µg/g µa/a	100%	< 0.4	< 0.4	*	-	-	-	< 0.8	< 0.8	/ 70
Silver	µg/g	100%	< 0.2	< 0.2	*	-	-	-	< 0.4	< 0.4	*
Strontium	µg/g	na	-	-	-	-	-	-	31	117	<u>116%</u>
Titanium	µg/g	100% na	< 0.4	< 0.4	_	-	-	-	< 0.4	< 0.4 279	11%
Uranium	µg/g	100%	< 0.5	< 0.5	*	-	-	-	0.64	0.63	*
Vanadium 	µg/g	100%	29	31	7%	-	-	-	47	36	27%
Zinc Zirconium	µg/g	100% na	46	46	0%		-	-	93 5.7	61 5.6	42%
	M9/9								0.1	0.0	270
Petroleum Hydrocarbon (PHC) Fractions		4000/				15	15				
PHC F1 PHC F2	µg/g µa/a	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	*	-	-	-
Bromodicniorometnane	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	*	-	-	-
Dibromochloromethane	µg/g µg/g	100%	-	-	-	< 0.04	< 0.04	*	-	-	-
Dichlorobenzene, 1,2- (o-DCB)	µg/g	100%	-	-	-	< 0.05	< 0.05	*	-	-	-
Dichlorobenzene, 1,3- (m-DCB)	µg/g	100%	-	-	-	< 0.05	< 0.05	*	-	-	-
Dichlorodifluoromethane	µg/g µa/a	100%	-	-	1	< 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, trans-1,2-	µg/g	100%	-	-	-	< 0.05	< 0.05	*	-	-	-
Dichloropropane, 1,2-	µg/g	100%	-	-	-	< 0.03	< 0.03	*	-	-	-
Dicnioropropene, 1,3-	µg/g	100%	-	-	-	< 0.04	< 0.04	*	-	-	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/g	100%	-	-	-	< 0.04	< 0.04	*	-	-	-
Hexane (n)	µg/g	100%	-	-	-	< 0.05	< 0.05	*	-	-	-
Metnyl Ethyl Ketone (2-Butanone)	µg/g	100% 100%	-	-	1	< 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, 1,1,2,2-	hð\ð	100%	-	-		< 0.04	< 0.04	*	-	-	
Tetrachloroethylene	µg/g	100%	-	-	-	< 0.05	< 0.05	*	-	-	-
Toluene	µg/g	100%	-	-	-	< 0.05	< 0.05	*	-	-	-
Trichloroethane, 1,1,1-	hā\a	100%	-	-	1	< 0.05	< 0.05	*	-		1
Trichloroethylene	µg/g	100%	-	-	-	< 0.03	< 0.03	*	-	-	-
Trichlorofluoromethane	µg/g	100%	-	-	-	< 0.05	< 0.05	*	-	-	-
Xylenes	hð\a	100%	-	-	1	< 0.02	< 0.02	*	-	-	
								_			

See footnotes on last page.

TABLE E.2: Field Duplicate RPD Calculations Soil Samples								
10192 Highway 50, Brampton, ON		-	-	-				
Sample	Location	RPD	BH-75	BH-75	RPD	SS9	SS9	RPD
Laboratory 3	Sample ID	Limit	624954 RH 75.06	624968 BH 75.66		624892	624893	
Sampling Date (vvv	v/mm/dd)	100%	2019/10/16	2019/10/16		2019/10/16	2019/10/16	
Depth Interv	al (mbos)	10070	3.0 - 3.7	3.0 - 3.7		0.0 - 0.6	0.0 - 0.6	
Field Scree	en (ppmv)		<5	<5		-	-	
			-	Duplicate of			Duplicate of	
Parameter	Units			BH-75-06			SS9	
Constal Chemistry								
General Chemistry Free Cyanide	ua/a	100%	_	-	_	_	_	_
Flectrical Conductivity	uS/cm	100%	-	-	-	-	-	-
pH	Hq	100%	-	-	-	11.3	11.3	*
Sodium Adsorption Ratio	None	100%	-	-	-	-	-	-
Total Metals								
Aluminum	µg/g	na	-	-	-	-	-	-
Antimony	µg/g	100%	-	-	-	-	-	-
Arsenic	µg/g	100%	-	-	-	-	-	-
Beryllium	µg/g	100%	-	-		-	-	-
Bismuth	µ9/9 µa/a	na	_	-	_	_	_	_
Boron	ua/a	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%	-	-	-	-	-	-
lron	µg/g	100%	-	-	-	-	-	-
Lead	H8/8	100%	-	-]	_	_	
Lithium	µ9/9 µa/a	na	-	-	-	-	-	-
Manganese	µg/g	na	-	-	-	-	-	-
Mercury	µg/g	100%	-	-	-	-	-	-
Molybdenum	µg/g	100%	-	-	-	-	-	-
Nickel	µg/g	100%	-	-	-	-	-	-
Phosphorous	µg/g	na	-	-	-	-	-	-
Selenium Silvor	µg/g	100%	-	-	-	-	-	-
Strontium	µg/g µg/g	100% na	-	-	-	-	-	-
Thallium	µ9/9 µa/a	100%	_	-	_	_	_	_
Titanium	µg/q	na	-	-	-	-	-	-
Uranium	µg/g	100%	-	-	-	-	-	-
Vanadium	µg/g	100%	-	-	-	-	-	-
Zinc	µg/g	100%	-	-	-	-	-	-
Zirconium	µg/g	na	-	-	-	-	-	-
Deterlation (DUO) Freetiers								
Petroleum Hydrocarbon (PHC) Fractions	uala	100%	< 5	< 5	*			
PHC F2	µg/g µa/a	100%	< 10	< 10	*	-	-	-
PHC F3	µ9/9 µa/a	100%	< 50	< 50	*	-	-	-
PHC F4	µg/g	100%	< 50	< 50	*	-	-	-
Volatile Organic Compounds								
Acetone	µg/g	100%	< 0.50	< 0.50	*	-	-	-
Benzene Deserve disklasse setteres	µg/g	100%	< 0.02	< 0.02		-	-	-
Bromodicnioromethane	µg/g	100%	< 0.05	< 0.05	*	-	-	-
Bromomethane	µg/g µa/a	100%	< 0.05	< 0.05	*	-	-	-
Carbon Tetrachloride	ua/a	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)	hð/ð	100%	< 0.05	< 0.05		-	-	-
Dichlorodenzene, 1,4- (p-DCB) Dichlorodifluoromethane	µg/g	100%	< 0.05	< 0.05	*	-	-	-
Dichloroethane 11-	µg/g µg/g	100%	< 0.05	< 0.05	*	-	-	-
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		-	-	-
Eurypenzene Ethylene Dibromide (Dibromoothons, 4.3.)	µg/g	100%	< 0.05	< 0.05	*	-	-	-
Hexane (n)	hð/ð	100%	< 0.04	< 0.04	*	_		1
Methyl Ethyl Ketone (2-Butanone)	µ9/9 µa/a	100%	< 0.50	< 0.50	*	-	-	_
Methyl Isobutyl Ketone	µg/q	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	*	-	-	-
retrachloroethane, 1,1,2,2-	µg/g	100%	< 0.05	< 0.05	*	-	-	-
retrachioroethylene Toluene	µg/g	100%	< 0.05	< 0.05	*	-	-	-
Trichloroethane. 1.1.1-	Hð/ð	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	*	-	-	-
I VIODOS	1 U/a	111119/-	< 11.05	< 11.05		-	-	

See footnotes on last page.

Field Duplicate RPD Calculations Soil Samples 10192 Highway 50, Brampton, ON TABLE E.2:

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 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.

AGAT Laboratories (V3)

Member of: Association of Professional Engineers and Geoscientists of Alberta (APEGA) Western Enviro-Agricultural Laboratory Association (WEALA) Environmental Services Association of Alberta (ESAA) AGAT Laboratories is accredited to ISO/IEC 17025 by th Accreditation Inc. (CALA) and/or Standards Council of C scope of accreditation. AGAT Laboratories (Mississauga Association for Laboratory Accreditation Inc. (CALA) for are location and parameter specific. A complete listing of from www.cala.ca and/or www.scc.ca. The tests in this rePage 1 of 24

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Results relate only to the items tested. Results apply to samples as received. All reportable information as specified by ISO 17025:2017 is available from AGAT Laboratories upon request



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.aqatlabs.com

CLIENT NAME: SNC LAVALIN INC

SAMPLING SITE:

ATTENTION TO: Robert Mitzakov

SAMPLED BY:

DATE RECEIVED: 2019-06-10							DATE REPORTED: 2019-06-20
		SAMPLE DES	CRIPTION:	BH02-01	BH03-02	BH18-02	
		SAM	PLE TYPE:	Soil	Soil	Soil	
		DATES	SAMPLED:	2019-06-10	2019-06-10	2019-06-10	
Parameter	Unit	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	

O. Reg. 153(511) - Metals & Inorganics (Soil)





AGAT WORK ORDER: 19T477958 PROJECT: City of Brampton - Phase II

CLIENT NAME: SNC LAVALIN INC

SAMPLING SITE:

ATTENTION TO: Robert Mitzakov

SAMPLED BY:

O. Reg. 153(511) - Metals & Inorganics (Soil)

DATE RECEIVED: 2019-06-10

DATE REPORTED: 2019-06-20

5835 COOPERS AVENUE

MISSISSAUGA, ONTARIO

http://www.agatlabs.com

CANADA L4Z 1Y2

TEL (905)712-5100 FAX (905)712-5122

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 *)





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.aqatlabs.com

CLIENT NAME: SNC LAVALIN INC

SAMPLING SITE:

ATTENTION TO: Robert Mitzakov

SAMPLED BY:

				•••••	9	
DATE RECEIVED: 2019-06-10						DATE REPORTED: 2019-06-20
		SAMPLE DESCR	RIPTION:	BH02-02	BH03-01	
		SAMPL	E TYPE:	Soil	Soil	
		DATE SA	MPLED:	2019-06-10	2019-06-10	
Parameter	Unit	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	

O. Reg. 153(511) - PAHs (Soil)

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.

Analysis performed at AGAT Toronto (unless marked by *)

Amkal Jata

Certified By:



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.aqatlabs.com

CLIENT NAME: SNC LAVALIN INC

SAMPLING SITE:

ATTENTION TO: Robert Mitzakov

SAMPLED BY:

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

DATE RECEIV	ED: 2019-06-10						DATE REPORTED: 2019-06-20
		S	SAMPLE DES	CRIPTION:	BH02-07	BH03-07	
			SAM	PLE TYPE:	Soil	Soil	
			DATE	SAMPLED:	2019-06-10	2019-06-10	
Para	umeter Unit		G/S	RDL	265183	265186	
F1 (C6 to C10)		µg/g		5	<5	<5	
F1 (C6 to C10) m	inus 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 Heav	y Hydrocarbons	µg/g	120	50	NA	NA	
Moisture Content		%		0.1	14.2	14.6	
Suri	rogate	Unit	Acceptab	le Limits			
Terphenyl		%	60-	140	108	130	
Comments:	RDL - Reported De Residential/Parklan	tection Limit; d/Institutional/Ir	G / S - Guide ndustrial/Com	line / Standa mercial/Com	rd: Refers to Tab munity Property	le 9: Generic Site Co Use	Indition Standards for Use within 30 m of a Water Body in a Non-Potable Ground Water Condition - Soil -
	Guideline values ar	e for general re	ference only.	The guidelin	es provided may	or may not be releva	nt for the intended use. Refer directly to the applicable standard for regulatory interpretation.
265183-265186	Results are based of	on sample dry v	veight.		1		
	C6_C10 (F1 minus	n is calculated (BTEX) is a calc	using toluene	eter The cal	tor. culated value is l	1 minus BTEX	
	The C10 - C16 C1	6 - C34 and C3	34 - C50 fracti	ons are calci	lated using the a	iverage response fac	tor for n-C10 n-C16 and n-C34
	Gravimetric Heavy	Hydrocarbons a	are not include	ed in the Tota	al C16-C50 and a	ire only determined if	the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.
	The chromatogram	has returned to	baseline by t	he retention	time of nC50.		
	Total C6 - C50 resu	ults are correcte	d for BTEX co	ontribution.			
	This method compl	ies with the Ref	erence Metho	d for the CW	'S PHC and is va	lidated for use in the	laboratory.
	nC6 and nC10 resp	onse factors ar	e within 30%	of Toluene re	esponse factor.		
	nC10, nC16 and nC	34 response fa	ctors are with	in 10% of the	eir average.		
	C50 response facto	or is within 70%	of $nC10 + nC$	16 + nC34 a	verage.		
	Entraction and hold	ling times were	met for this s	ample			
	Extraction and hold	ing times were	met for this sa	ampie.			

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 *)

Jinkal Jota



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.aqatlabs.com

CLIENT NAME: SNC LAVALIN INC

SAMPLING SITE:

ATTENTION TO: Robert Mitzakov

DATE REPORTED: 2019-06-20

Jinkal Jota

SAMPLED BY:

O. Reg. 153(511) - VOCs (MEOH)

DATE RECEIVED: 2019-06-10

	S	SAMPLE DESCRI	PTION:	Trip Blank	
		SAMPLE	TYPE:	Soil	
		DATE SAM	IPLED: 2	2019-06-10	
Parameter	Unit	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	

Certified By:



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.aqatlabs.com

CLIENT NAME: SNC LAVALIN INC

SAMPLING SITE:

ATTENTION TO: Robert Mitzakov

SAMPLED BY:

O. Reg. 153(511) - VOCs (MEOH)

DATE RECEIVED: 2019-06-10

	SA	AMPLE DES	CRIPTION:	Trip Blank
		SAMPLE TYPE:		Soil
		DATES	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	Acceptab	le Limits	
Toluene-d8	% Recovery	50-1	140	104
4-Bromofluorobenzene	% Recovery	50-1	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 *)

Imkal Jata

DATE REPORTED: 2019-06-20



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.aqatlabs.com

CLIENT NAME: SNC LAVALIN INC

SAMPLING SITE:

ATTENTION TO: Robert Mitzakov

SAMPLED BY:

				3 - (-)	
DATE RECEIVED: 2019-06-10					DATE REPORTED: 2019-06-20
	S	AMPLE DESCRIPTI	ON: BH02-07	BH03-07	
		SAMPLE TY	PE: Soil	Soil	
		DATE SAMPL	ED: 2019-06-10	2019-06-10	
Parameter	Unit	G/S RD	265183	265186	
Dichlorodifluoromethane	µg/g	0.05 0.0	5 <0.05	<0.05	
Vinyl Chloride	ug/g	0.02 0.0	2 <0.02	<0.02	
Bromomethane	ug/g	0.05 0.0	5 <0.05	<0.05	
Trichlorofluoromethane	ug/g	0.25 0.0	5 <0.05	<0.05	
Acetone	ug/g	0.5 0.5) <0.50	<0.50	
1,1-Dichloroethylene	ug/g	0.05 0.0	5 <0.05	<0.05	
Methylene Chloride	ug/g	0.05 0.0	5 <0.05	<0.05	
Trans- 1,2-Dichloroethylene	ug/g	0.05 0.0	5 <0.05	<0.05	
Methyl tert-butyl Ether	ug/g	0.05 0.0	5 <0.05	<0.05	
1,1-Dichloroethane	ug/g	0.05 0.0	2 <0.02	<0.02	
Methyl Ethyl Ketone	ug/g	0.5 0.5) <0.50	<0.50	
Cis- 1,2-Dichloroethylene	ug/g	0.05 0.0	2 <0.02	<0.02	
Chloroform	ug/g	0.05 0.0	4 <0.04	<0.04	
1,2-Dichloroethane	ug/g	0.05 0.0	3 <0.03	< 0.03	
1,1,1-Trichloroethane	ug/g	0.05 0.0	5 <0.05	<0.05	
Carbon Tetrachloride	ug/g	0.05 0.0	5 <0.05	< 0.05	
Benzene	ug/g	0.02 0.0	2 <0.02	<0.02	
1,2-Dichloropropane	ug/g	0.05 0.0	3 <0.03	< 0.03	
Trichloroethylene	ug/g	0.05 0.0	3 <0.03	< 0.03	
Bromodichloromethane	ug/g	0.05 0.0	5 <0.05	<0.05	
Methyl Isobutyl Ketone	ug/g	0.5 0.5) <0.50	<0.50	
1,1,2-Trichloroethane	ug/g	0.05 0.04	4 <0.04	<0.04	
Toluene	ug/g	0.2 0.0	5 <0.05	<0.05	
Dibromochloromethane	ug/g	0.05 0.0	5 <0.05	<0.05	
Ethylene Dibromide	ug/g	0.05 0.04	4 <0.04	<0.04	
Tetrachloroethylene	ug/g	0.05 0.0	5 <0.05	<0.05	
1,1,1,2-Tetrachloroethane	ug/g	0.05 0.04	4 <0.04	<0.04	
Chlorobenzene	ug/g	0.05 0.0	5 <0.05	<0.05	
Ethylbenzene	ug/g	0.05 0.0	5 <0.05	<0.05	
m & p-Xvlene	ua/a	0.0	5 <0.05	<0.05	

O. Reg. 153(511) - VOCs (Soil)

Certified By:

Jinkal Jouted

Page 8 of 24



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.aqatlabs.com

CLIENT NAME: SNC LAVALIN INC

SAMPLING SITE:

ATTENTION TO: Robert Mitzakov

SAMPLED BY:

					• • •	
DATE RECEIVED: 2019-06-10						DATE REPORTED: 2019-06-20
	S	AMPLE DES	CRIPTION:	BH02-07	BH03-07	
		SAM	PLE TYPE:	Soil	Soil	
		DATE	DATE SAMPLED:		2019-06-10	
Parameter	Unit	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	hð\ð	0.05	0.05	<0.05	<0.05	
Surrogate	Unit	Acceptab	ole Limits			
Toluene-d8	% Recovery	50-	140	109	110	
4-Bromofluorobenzene	% Recovery	50-	140	78	74	

O. Reg. 153(511) - VOCs (Soil)

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 *)

Imkal Jata



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.aqatlabs.com

CLIENT NAME: SNC LAVALIN INC

SAMPLING SITE:

ATTENTION TO: Robert Mitzakov

SAMPLED BY:

				C	DC Pesticide	es (Soil)
DATE RECEIVED: 2019-06-10						DATE REPORTED: 2019-06-20
		SAMPLE DES SAM	CRIPTION: PLE TYPE: SAMPLED:	BH02-01 Soil 2019-06-10	BH03-02 Soil 2019-06-10	
Parameter	Unit	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	ug/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	Acceptab	le Limits			
ТСМХ	%	60-1	30	72	77	
Decachlorobiphenyl	%	60-1	30	80	86	

Jinkal Jata



AGAT WORK ORDER: 19T477958 PROJECT: City of Brampton - Phase II

CLIENT NAME: SNC LAVALIN INC

SAMPLING SITE:

ATTENTION TO: Robert Mitzakov

SAMPLED BY:

	OC Pesticides (Soil)											
DATE RECEIV	'ED: 2019-06-10	DATE REPORTED: 2019-06-20										
Comments:	RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 9: Generic Site C Residential/Parkland/Institutional/Industrial/Commercial/Community Property Use Guideline values are for general reference only. The guidelines provided may or may not be releva	ondition Standards for Use within 30 m of a Water Body in a Non-Potable Ground Water Condition - Soil - ant 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 *)

Amkal Jata

Certified By:

5835 COOPERS AVENUE

MISSISSAUGA, ONTARIO

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CANADA L4Z 1Y2

TEL (905)712-5100 FAX (905)712-5122



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.aqatlabs.com

CLIENT NAME: SNC LAVALIN INC

SAMPLING SITE:

ATTENTION TO: Robert Mitzakov

SAMPLED BY:

				, , , , , , , , , , , , , , , , , , ,	(,	
DATE RECEIVED: 2019-06-10							DATE REPORTED: 2019-06-20
		SAMPLE DESCRIPTION:	BH02-01		BH03-02	BH18-02	
		SAMPLE TYPE:	Soil		Soil	Soil	
		DATE SAMPLED:	2019-06-10		2019-06-10	2019-06-10	
Parameter	Unit	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	
MCPP (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	

Phenoxy Acid Herbicides (Soil)

Comments:

265181

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. 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 *)

Amkal Jota

	<mark>agat</mark>	Laboratorie	S Guideline Violat AGAT WORK ORDER: 19T477 PROJECT: City of Brampton -	Guideline Violation AGAT WORK ORDER: 19T477958 PROJECT: City of Brampton - Phase II					
CLIENT NAM	E: SNC LAVALIN INC			ATTENTION TO: Rober	t Mitzakov	ntę./	/www.agallab3.com		
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)	Aetals & Inorganics (Soil) Electrical Conductivity mS/cr		0.7	0.810		



5835 COOPERS AVENUE MISSISSAUGA, ONTARIO CANADA L4Z 1Y2 TEL (905)712-5100 FAX (905)712-5122 http://www.agatlabs.com

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:

				Soi	l Ana	alysis	6								
RPT Date: Jun 20, 2019			C	UPLICAT	E		REFEREN	NCE MA	TERIAL	METHOD BLANK SPIKE			MAT	RIX SPI	IKE
PARAMETER	Batch	Sample	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acce Lir	eptable nits
		lu					value	Lower	Upper		Lower Upper		-	Lower	Upper
O. Reg. 153(511) - Metals & In	organics (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:



AGAT QUALITY ASSURANCE REPORT (V3)

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AGAT Laboratories is accredited to ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA) and/or Standards Council of Canada (SCC) for specific tests listed on the scope of accreditation. AGAT Laboratories (Mississauga) is also accredited by the Canadian Association for Laboratory Accreditation Inc. (CALA) for specific drinking water tests. Accreditations are location and parameter specific. A complete listing of parameters for each location is available from www.cala.ca and/or www.scc.ca. The tests in this report may not necessarily be included in the scope of accreditation. RPDs calculated using raw data. The RPD may not be reflective of duplicate values shown, due to rounding of final results.



5835 COOPERS AVENUE MISSISSAUGA, ONTARIO CANADA L4Z 1Y2 TEL (905)712-5100 FAX (905)712-5122 http://www.agatlabs.com

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

			mac		gam		iary 3	13							
RPT Date: Jun 20, 2019	DUPLICATE				REFERENCE MATERIAL			METHOD	BLANK	SPIKE	MATRIX SPIKE		KE		
	Batch	Sample	Dup #1	Dup #2	חספ	Method Blank	Measured	Acce Lir	eptable mits	Pecoverv	Acce Lir	ptable nits	_ Recovery	Acce Lir	ptable nits
	Daten	ld	Dup #1	Dup #2			Value	Lower	Upper	Recovery	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%

AGAT QUALITY ASSURANCE REPORT (V3)

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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)

5				<u>, </u>	· /										
RPT Date: Jun 20, 2019				UPLICAT	E	_	REFERE		TERIAL	METHOD	BLAN	(SPIKE	MATRIX SPIKE		
PARAMETER	Batch	Sample	Dup #1	Dup #2	RPD	Method Blank	Measured	Acce Lir	ptable nits	Recovery	Acce	eptable nits	Recovery	Acce Lir	ptable nits
		iu iu					Value		Lower Upper		Lower	Upper		Lower	Upper
Acetone	270262	1	< 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	NΔ	< 0.05	84%	50%	140%	91%	60%	130%	93%	50%	140%
Benzene	270262		< 0.00	< 0.00	NΔ	< 0.00	100%	50%	140%	105%	60%	130%	93%	50%	140%
1 2-Dichloropropane	270262		< 0.02	< 0.02	ΝΔ	< 0.02	80%	50%	1/0%	97%	60%	130%	80%	50%	140%
Trichloroethylene	270202		< 0.03	< 0.03	NΔ	< 0.00	03%	50%	1/0%	08%	60%	130%	86%	50%	1/0%
Bromodichloromethane	270262		< 0.00	< 0.00	ΝΔ	< 0.00	76%	50%	1/0%	83%	60%	130%	03%	50%	1/0%
Biomodicinoromethane	210202		< 0.00	< 0.00	INA	< 0.00	1070	5070	14070	0070	0070	10070	3370	5070	14070
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%
letrachloroethylene	270262		< 0.05	< 0.05	NA	< 0.05	105%	50%	140%	106%	60%	130%	95%	50%	140%
1,1,1,2-I etrachloroethane	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%
0 Reg 153(511) - \/000 (Soil)															
Dichlorodifluoromothano	265226		~ 0.05	~ 0.0F	NIA	< 0.0F	070/	50%	1/00/	86%	50%	1/00/	820/	50%	1/00/
Vipul Chlorido	200220		< 0.02	< 0.00		< 0.05	9170 000/	50%	140%	00%	50%	140%	02%	50%	1/00/
Promomothono	200220		< 0.02	< 0.02		< 0.02	8U%	50%	140%	95%	50%	140%	90%	50%	140%
	200220		< 0.05	< 0.05	NA	< 0.05	114%	50%	140%	110%	50%	140%	112%	50%	140%

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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					, 	REFEREN		TERIAL				PIKE MATRIX SPIKE				
111 1 Date. 0411 20, 2013						Method		Acce	ptable		Acce	eptable		Acceptable		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Blank	Measured Value	Lir	nits	Recovery	Lii	mits	Recovery	, Lir	nits	
								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	4 (-BTEX) (So	oil)														
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%	
-																

AGAT QUALITY ASSURANCE REPORT (V3)

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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)

			0				`			,					
RPT Date: Jun 20, 2019			C	DUPLICAT	E		REFERE	NCE MA	TERIAL	METHOD	BLAN	K SPIKE	MATRIX SPIKE		
PARAMETER	Batch	Sample	Dup #1	Dup #2	RPD	Method Blank	Measured	Acce Lir	eptable nits	Recovery	Acce Lir	eptable nits	Recovery	Acce Lir	ptable nits
		lu					value	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:

Jinkal Jota

Page 18 of 24

AGAT QUALITY ASSURANCE REPORT (V3)

AGAT Laboratories is accredited to ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA) and/or Standards Council of Canada (SCC) for specific tests listed on the scope of accreditation. AGAT Laboratories (Mississauga) is also accredited by the Canadian Association for Laboratory Accreditation Inc. (CALA) for specific drinking water tests. Accreditations are location and parameter specific. A complete listing of parameters for each location is available from www.cala.ca and/or www.scc.ca. The tests in this report may not necessarily be included in the scope of accreditation. RPDs calculated using raw data. The RPD may not be reflective of duplicate values shown, due to rounding of final results.



Method Summary

CLIENT NAME: SNC LAVALIN INC

PROJECT: City of Brampton - Phase II

AGAT WORK ORDER: 19T477958 ATTENTION TO: Robert Mitzakov

SAMPLING SITE:		SAMPLED BY:	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-84 6010C	⁶ 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

AGAT WORK ORDER: 19T477958 ATTENTION TO: Robert Mitzakov SAMPLED BY:

SAMPLING SITE:	SAMPLED BY:							
PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE					
Trace Organics Analysis	1							
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

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
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
loluene	VOL-91-5002	EPA SW-846 5035 & 8260D	(P&T)GC/MS
	VOL-91-5002	EPA SW-846 5035 & 8260D	(P&I)GC/MS
Ethylene Dibromide	VOL-91-5002	EPA SW-846 5035 & 8260D	
I etrachioroethylene	VOL-91-5002	EPA SW-846 5035 & 8260D	
1,1,1,2-1 etrachloroethane	VOL-91-5002	EPA SW-846 5035 & 8260D	
	VOL-91-5002	EPA SW-846 5035 & 8260D	
	VOL-91-5002	EPA SW-846 5035 & 8260D	
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:

	AGATSOP							
Promoform	XOL 01 5002							
Sturene	VOL 01 5002	EPA SW-040 5055 & 0200D						
1 1 2 2 Totrachloroothano	VOL 91 5002	EPA SW-040 5055 & 0200D						
	VOL 01 5002	EPA SW-040 5055 & 0200D						
1.2 Dichlerchenzene	VOL 01 5002	EPA SW-040 5055 & 0200D						
	VOL 01 5002	EPA SW-040 5055 & 0200D						
1,4-Dichlorobenzene	VOL 91 5002	EPA SW-040 5055 & 0200D						
Yulono Mixturo	VOL 91 5002	EPA SW-040 5035 & 0200D						
1 3 Dichleropropopo	VOL 91 5002	EPA SW-040 5035 & 0200D						
	VOL 01 5002	EPA SW-040 5055 & 0200D						
	VOL 91 5002	EPA SW-040 5055 & 0200D						
A Promofluorobonzono	VOL 01 5002	EPA SW-846 5035 & 8260D						
4-Biomonuorobenzene	OPC 01 5112	EFA 500-040 5055 & 0200D						
	ORG-91-5113	EFA SW - 640 334 1/6081 EDA SW - 846 3541/8081						
apria - Di IC	ORG-91-5113	EPA SW - 646 354 1/6061						
Alpha Chlordano	OPC 01 5113	EPA SW - 646 354 1/6081						
Commo Chlordono	OPC 01 5113	EPA SW - 646 354 1/6081						
Chlordane (Total)	ORG-91-5113	EFA SW - 846 3541/8081	GC/ECD					
	ORG-91-5113	EPA SW - 846 3541/8081	GC/ECD					
DDD (0,p)	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					
	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					
тсмх	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

PROJECT: City of Brampton - Phase II

AGAT WORK ORDER: 19T477958

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								
МСРА	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								

Chain of Quetody Peop			abor	rato	ories		Ph: 90	M 05.71	ssissa 2.5100 we	835 Cooj uga, Onta Fax: 90! bearth.ag	oers A io L4 5.712 (atlab	venue Z 1Y2 .5122 s.com	2	La We Co	abora ork Ord ooler Qu	er #:	y Us	e Onl 9T t	y H B	77	<u>158</u>):
Chain of Custody Reco	rc If this Is	a Drinking Wa	ter sample,	please us	se Drinking Water Chaln o	f Custody Form (potable	water (consume	d by huma	ns)	amo	nt	Ar	rival le	mpera	atures	12	~		3,0	
Report Information: SNC-Lawdon Inc. Contact: Rebert Mteaked Address: 195 The Uset Mell, Tecente, ON Mgc SK1 Phone: 195 The Uset Mell, Tecente, ON Reports to be sent to: 1. Email: 1. Email: Robert. Mitentov @ Snelwalin.com 2. Email: Aked. Yessine@Snelwalin.com Project Information: Project: City of Burgton - Phone II Site Location: 10172 Highway 50, Brangton Sampled By: Samp Reeston 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 IND II Company: SNC-Lawdon Inc.				Regulation 153/04 Table Ind/Com Res/Park Agriculture Soil Texture (check one) Coarse Fine Is this submission for a Record of Site Condition? X Yes No Sample Matrix Legend B Biota GW Ground Water O Oil P Paint				egula eport Yes 0. Re (sepupA(H ;put)) 0. Re (sepu	CME rov. Water Quality bjectives (PWQO) ther Indicate One Cuideline on te of Analysis No			ut vo	Notes: Image: Image							ext Business ay pply): TAT holidays SAT CPM		
Address: Email: Payables @ Snel	cuvalin cou	~	# of	Samo	SD Sediment SW Surface Water	nts/	Field Filtered -	als and Inorganics	I Metals	S: []B-HWS []CF []EC []FOC []	Metals Scan	ulation/Custom Me	rients: D TP D NH	ttiles: 🗆 voc 🗆 BT	SF1-F4, VOC	<u>v</u> v	is: 🗆 Total 🔲 Arocl	anochlorine Pestici	er Use	tay 553 Mct	ARI Condes	ntially Hazardous or Hi
Sample Identification	Sampled	Sampled	Containers	Matr	ix Special Inst	ructions	Y/N	Met	Ť □			Reg	N N N N	Vola	PHO	PAH	PCB	Org	Sew	0	IN	Pote
BH-02-01	Sure 10/19	9:00	5	Soil									_		X				_	X	$\times \times$	
BH-02-012		9.14	6	Seil				Į			_			40	-	X						
PH-02-01		1.40	4	20.1	1110	-				-	-				X		-		_	1	1.50	
Dri-OS-OC Rul sz si		11:00	>	20.1	limited Kecon	144	-	-			-				X		-		-	X	XX	
PH-03-01		11.40	H	2011			-	-			-			-		X			-	+-+	-	
BH-18-01		15:25	2	Sul				-		-	-			17-	X		-		-	X	XX	
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			1.2								-					-						
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Samples Relinquished B; (Pant Name and Sign):	1	Date Sinc Date	<i>B(17</i>	ime 5;30 ime	Samples Readined By (P Samples Received By (P	rint Name and Sign): rint Name and Sign):	MG	aì	1st	M	ļ	Date Date	176	2 1		19	36	20	Pa		of	
Descupent (D) D(1/2), U(1) O(1)		Date	h	inte	Samples Received By (P	nni Name and Sign):				D:	Corre	Date		11	Time		1. 1.4.4	Nº:	T	30	398	96



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.

 AGGAT Laboratories (V1)
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AGAT WORK ORDER: 19T478647 PROJECT: City of Brampton Phase 2 5835 COOPERS AVENUE MISSISSAUGA, ONTARIO CANADA L4Z 1Y2 TEL (905)712-5100 FAX (905)712-5122 http://www.aqatlabs.com

CLIENT NAME: SNC LAVALIN INC

SAMPLING SITE:

ATTENTION TO: Robert Mitzakov

SAMPLED BY:

		-	- 3	,		()
DATE RECEIVED: 2019-06-11						DATE REPORTED: 2019-06-24
	SAMPLE DES SAM	CRIPTION: PLE TYPE:	BH30-01 Soil	BH51-02 Soil	BH70-01 Soil	
	DATE	SAMPLED:	2019-06-11	2019-06-11	2019-06-11	
Parameter Unit	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 µa/a	0.27	0.10	<0.10	<0.10	<0.10	
pH, 2:1 CaCl2 Extraction pH Units		NA	7.42	7.36	7.54	

O. Reg. 153(511) - Metals & Inorganics (Soil)

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 *)





AGAT WORK ORDER: 19T478647 PROJECT: City of Brampton Phase 2 5835 COOPERS AVENUE MISSISSAUGA, ONTARIO CANADA L4Z 1Y2 TEL (905)712-5100 FAX (905)712-5122 http://www.aqatlabs.com

CLIENT NAME: SNC LAVALIN INC

SAMPLING SITE:

ATTENTION TO: Robert Mitzakov

SAMPLED BY:

					U	`	,
DATE RECEIVED: 2019-06-11							DATE REPORTED: 2019-06-24
		SAMPLE DES	CRIPTION:	BH30-01	BH51-02	BH70-01	
		SAM	PLE TYPE:	Soil	Soil	Soil	
		DATE	SAMPLED:	2019-06-11	2019-06-11	2019-06-11	
Parameter	Unit	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	

O. Reg. 153(511) - ORPs (Soil)

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 *)





AGAT WORK ORDER: 19T478647 PROJECT: City of Brampton Phase 2 5835 COOPERS AVENUE MISSISSAUGA, ONTARIO CANADA L4Z 1Y2 TEL (905)712-5100 FAX (905)712-5122 http://www.aqatlabs.com

CLIENT NAME: SNC LAVALIN INC

SAMPLING SITE:

ATTENTION TO: Robert Mitzakov

SAMPLED BY:

					5 ()	
DATE RECEIVED: 2019-06-11						DATE REPORTED: 2019-06-24
	:	SAMPLE DES	CRIPTION:	BH30-02	BH51-02	
		SAM	PLE TYPE:	Soil	Soil	
		DATE S	SAMPLED:	2019-06-11	2019-06-11	
Parameter	Unit	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	Acceptab	le Limits			
Chrysene-d12	%	50-1	40	119	106	

O. Reg. 153(511) - PAHs (Soil)

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. 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 *)

Amkal Jata



AGAT WORK ORDER: 19T478647 PROJECT: City of Brampton Phase 2 5835 COOPERS AVENUE MISSISSAUGA, ONTARIO CANADA L4Z 1Y2 TEL (905)712-5100 FAX (905)712-5122 http://www.aqatlabs.com

CLIENT NAME: SNC LAVALIN INC

SAMPLING SITE:

ATTENTION TO: Robert Mitzakov

SAMPLED BY:

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

DATE RECEIV	ED: 2019-06-11						DATE REPORTED: 2019-06-24
		5	AMPLE DES	CRIPTION:	BH30-08	BH51-08	
			SAM	PLE TYPE:	Soil	Soil	
			DATES	SAMPLED:	2019-06-11	2019-06-11	
Para	ameter	Unit	G / S	RDL	268835	268852	
F1 (C6 to C10)		µg/g		5	<5	<5	
F1 (C6 to C10) m	inus 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 Heav	y Hydrocarbons	µg/g	120	50	NA	NA	
Moisture Content		%		0.1	9.4	10.5	
Suri	ogate	Unit	Acceptab	le Limits			
Terphenyl		%	60-1	40	115	106	
Comments:	RDL - Reported De	etection Limit;	G / S - Guide	line / Standa	rd: Refers to Tab	le 9: Generic Site C	ondition Standards for Use within 30 m of a Water Body in a Non-Potable Ground Water Condition - Soil -
	Guideline values a	10/Institutional/II	ference only	nerciai/Com The quideling	munity Property (USE or may not be releva	ant for the intended use. Refer directly to the applicable standard for regulatory interpretation
268835-268852	Results are based	on sample dry v	veight	rne guideinn		or may not be releve	
200000 200002	The C6-C10 fractio	is calculated	using toluene	esponse fac	tor.		
	C6–C10 (F1 minus	BTEX) is a calc	culated param	eter. The cal	culated value is F	-1 minus BTEX.	
	The C10 - C16, C1	6 - C34, and C3	4 - C50 fractio	ons are calcu	lated using the a	verage response fac	tor for n-C10, n-C16, and n-C34.
	The chromatogram	has returned to	haseline by t	a in the Tota	time of nC50	ire only determined i	The chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.
	Total C6 - C50 resu	ults are correcte	d for BTEX co	ntribution.			
	This method compl	ies with the Ref	erence Metho	d for the CW	S PHC and is va	lidated for use in the	laboratory.
	nC6 and nC10 resp	oonse factors ar	e within 30% o	of Toluene re	sponse factor.		
	nC10, nC16 and nC	34 response fa	of pC10 + pC	10% of the	eir average.		
	Linearity is within 1	5%	0111010+110	10 + 11034 av	verage.		
	Extraction and hold	ling times were	met for this sa	mple.			

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 *)

Jinkal Jota



AGAT WORK ORDER: 19T478647 PROJECT: City of Brampton Phase 2

O. Reg. 153(511) - VOCs (Soil)

5835 COOPERS AVENUE MISSISSAUGA, ONTARIO CANADA L4Z 1Y2 TEL (905)712-5100 FAX (905)712-5122 http://www.aqatlabs.com

CLIENT NAME: SNC LAVALIN INC

SAMPLING SITE:

ATTENTION TO: Robert Mitzakov

SAMPLED BY:

					3				
DATE RECEIVED: 2019-06-11							DATE REPOR	RTED: 2019-06-2	24
	Ś	SAMPLE DESCRIP	TION:	BH30-08	BH51-08				
		SAMPLE	TYPE:	Soil	Soil				
		DATE SAM	PLED:	2019-06-11	2019-06-11				
Parameter	Unit	G/S R	DL	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-Xvlene	ua/a	0	.05	<0.05	<0.05				

Certified By:



AGAT WORK ORDER: 19T478647 PROJECT: City of Brampton Phase 2 5835 COOPERS AVENUE MISSISSAUGA, ONTARIO CANADA L4Z 1Y2 TEL (905)712-5100 FAX (905)712-5122 http://www.aqatlabs.com

CLIENT NAME: SNC LAVALIN INC

SAMPLING SITE:

ATTENTION TO: Robert Mitzakov

SAMPLED BY:

					5 ()	
DATE RECEIVED: 2019-06-11						DATE REPORTED: 2019-06-24
	S	AMPLE DES	CRIPTION:	BH30-08	BH51-08	
		SAM	PLE TYPE:	Soil	Soil	
		DATE	SAMPLED:	2019-06-11	2019-06-11	
Parameter	Unit	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	Acceptab	le Limits			
Toluene-d8	% Recovery	50-	140	109	106	
4-Bromofluorobenzene	% Recovery	50-	140	74	74	

O. Reg. 153(511) - VOCs (Soil)

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 *)

Imkal Jata



AGAT WORK ORDER: 19T478647 PROJECT: City of Brampton Phase 2 5835 COOPERS AVENUE MISSISSAUGA, ONTARIO CANADA L4Z 1Y2 TEL (905)712-5100 FAX (905)712-5122 http://www.aqatlabs.com

CLIENT NAME: SNC LAVALIN INC

SAMPLING SITE:

ATTENTION TO: Robert Mitzakov

SAMPLED BY:

OC Pesticides (Soil)								
DATE RECEIVED: 2019-06-11							DATE REPORTED: 2019-06-24	
		SAMPLE DES SAM DATE S	CRIPTION: PLE TYPE: SAMPLED:	BH30-01 Soil 2019-06-11	BH51-02 Soil 2019-06-11	BH70-01 Soil 2019-06-11		
Parameter	Unit	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	ug/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	Acceptab	le Limits					
ТСМХ	%	60-1	130	64	67	71		
Decachlorobiphenyl	%	60-1	130	70	87	73		

Jinkal Jota

Certified By:

AGAT CERTIFICATE OF ANALYSIS (V1)



AGAT WORK ORDER: 19T478647 PROJECT: City of Brampton Phase 2

CLIENT NAME: SNC LAVALIN INC

SAMPLING SITE:

ATTENTION TO: Robert Mitzakov

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.

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:

5835 COOPERS AVENUE

MISSISSAUGA, ONTARIO

http://www.agatlabs.com

CANADA L4Z 1Y2

TEL (905)712-5100 FAX (905)712-5122



AGAT WORK ORDER: 19T478647 PROJECT: City of Brampton Phase 2 5835 COOPERS AVENUE MISSISSAUGA, ONTARIO CANADA L4Z 1Y2 TEL (905)712-5100 FAX (905)712-5122 http://www.aqatlabs.com

CLIENT NAME: SNC LAVALIN INC

SAMPLING SITE:

ATTENTION TO: Robert Mitzakov

SAMPLED BY:

Phenoxy Acid Herbicides (Soil)									
DATE RECEIVED: 2019-06-11							DATE REPORTED: 2019-06-24		
		SAMPLE DESCRIF SAMPLE DATE SAM	PTION: TYPE: IPLED:	BH30-01 Soil 2019-06-11	BH51-02 Soil 2019-06-11	BH70-01 Soil 2019-06-11			
Parameter	Unit	G/S F	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			
MCPP (Mecoprop)	ug/g		1.0	<1.0	<1.0	<1.0			
МСРА	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 L	imits						
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 *)

Amkal Jata



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:

				Soi	l Ana	alysis	5								
RPT Date: Jun 24, 2019			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		KE
PARAMETER	Batch	Sample	Dup #1	Dup #2	RPD	Method Blank	Measured	Acce Lir	ptable nits	Recovery	Acce Lir	ptable nits	Recovery	Acce Lin	ptable nits
		Iù					value	Lower	Upper		Lower	Upper	r	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 & Inor	ganics (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:



AGAT QUALITY ASSURANCE REPORT (V1)

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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

					3								r		
RPT Date: Jun 24, 2019			C	DUPLICAT	E		REFERE	NCE MA	TERIAL	METHOD	BLAN	< SPIKE	MAT	RIX SPI	KE
PARAMETER	Batch	Sample	Dup #1	Dup #2	RPD	Method Blank	Measured	Acce Lir	eptable nits	Recovery	Acce Lir	eptable mits	Recovery	Acce	ptable nits
							Value	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%

AGAT QUALITY ASSURANCE REPORT (V1)

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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			C	UPLICAT	E		REFERE	NCE MA	TERIAL	METHOD	BLANK	SPIKE	MAT	RIX SPI	KE
PARAMETER	Batch	Sample	Dup #1	Dup #2	RPD	Method Blank	Measured	Acce Lir	ptable nits	Recovery	Acce Lir	ptable nits	Recovery	Acce Lir	ptable nits
		u					value	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:

Imkal Jata

AGAT QUALITY ASSURANCE REPORT (V1)

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Method Summary

CLIENT NAME: SNC LAVALIN INC

PROJECT: City of Brampton Phase 2

AGAT WORK ORDER: 19T478647 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					
pH, 2:1 CaCl2 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	GICP/OES					



Method Summary

CLIENT NAME: SNC LAVALIN INC

PROJECT: City of Brampton Phase 2

AGAT WORK ORDER: 19T478647 ATTENTION TO: Robert Mitzakov SAMPLED BY:

SAMPLING SITE:		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

AGAT WORK ORDER: 19T478647 ATTENTION TO: Robert Mitzakov SAMPLED BY:

SAMPLING SITE:	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

AGAT WORK ORDER: 19T478647 ATTENTION TO: Robert Mitzakov

SAMPLING SITE:		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							

AS CO	AI	La	abor	ator	ries	Ρ	h: 905	Mis 5.712	58 sissau 5100 web	35 Coop ga, Ontar Fax: 905 earth.ag	ers Ave o 1.4Z .712.5 atlabs.	enue 1Y2 5 122 com		La Wa	ork Ord	er #: Jantif	ty:	se (ବ୍-)nly ㅜ ㅗ	+75	364	.7	
Chain of Custody Reco	rd If this is	a Drinking Wat	er sample, p	lease use l	Drinking Water Chain of Custod	ly Form (po	table w	ater co	nsumed	by humar	s)			Ar	rival Te	mpei	rature	es:	Ц.	5	1145	-114	8
Report Information: Company: SNC - Log Contact: Robert Mitz Address: 195 The Lest M9c 5k1 M9c 5k2 Phone: 146 635 5382 Reports to be sent to: Right Hte Lest		Regulatory Requirements: No Regulation Regulation 153/04 (Please check all applicable boxes) Regulation 153/04 Table Indicate One Isonitary Agriculture			Regulatory Requirement Regulation 558 CCME Prov. Water Quality Objectives (PWQO) Objectives (PWQO)				t	Custody Seal Intact: Wes No N/A Notes: WHY CC No N/A Turnaround Time (TAT) Required: Regular TAT 5 to 7 Business Days Rush TAT (Rueh Surcharges Apply)													
1. Email: Abcol. Yussine	@ Snelava	Lin. con	~			Indicate	One			uiei						ays	ness			ays			
Project Information: Project: Site Location: 10192 Highway	Project Information: Project: City of Biompton - Phase II Site Location: 10192 Highway 50, Branpton						Image: Indicate One Image: I					Please provide prior notification for rush TAT *TAT is exclusive of weekends and statutory holidays					ays CPM						
AGAT Quote #: AGAT Quote #: Please note: If quotation number Invoice Information: Company: Contact: Address: Email: Peycholes C	PO: ris not provided, client availing Inc / Sncladal	Bill To Same:	• for analysis		Sample Matrix Legend B Biota GW Ground Water 0 Oil P Paint S Solow SD Sediment SW Surface Water		Field Filtered - Metals, Hg, CrVI	and Inorganics	als 153 Metals (excl. Hydrides) O.	123 DEC DFOC DHg DEC DFOC DHg	tals Scan	ion/Custom Metals	ts: DTP DNH, DTKN DNO, DNO3+NO2	s: DVOC DBTEX DTHM	ι- ۴4 , Υσς'			L lotal L Aroclors	Chlorine resuciues M&i	Jse	C/Controtinty	sicides Pertides	ly Hazardous or High Concentration (Y/N)
Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	e Comments/ Special Instructions	s	Y/N	Metals	All Me	ORPs:	Full Me	Regula	Nutrien	Volatile	PHCs F	ABNS	PAHS	PCBS: 1	Urgan.	Sewer	AR	Her	Potentia
BH 30-02 BH 30-02 BH 30-08 BH 51-02 BH 51-02 BH 51-02 BH 70-06 BH 70-06		9:15 9:25 10:40 12:30 12:40 13:45 15:15 15:15	2 2 2 2 2 2 2 2	Seil Seil Seil Seil Seil Seil Seil	limited Recousy limited Recovery										XXX X X		×				XX	X	
Samples Rolinquished By (Print Name and Sign): DoSgol Restan Samples Relinquished By (Print Name and Sign):		Date Date	11/19	me (8-73) me	Sample Received By (Print Name Samples Received By (Print Name	and Sign):	wae	ł	Ĥ	am	T T	Date 7 R/te	un l	14	244	10	6:4	150	211	Pag	e_1	of I	Decembry 2
Samples Relinquished By (Print Name and Sign):		Date	n	me	Samples Received By (Print Name	and Sign):						Angela					-	-		-	Dem	10 05 1	•



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.

 AGGAT Laboratories (V1)
 Page 1 of 18

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

Results relate only to the items tested. Results apply to samples as received. All reportable information as specified by ISO 17025:2017 is available from AGAT Laboratories upon request



AGAT WORK ORDER: 19T479815 PROJECT: City of Brampton - Phase II 5835 COOPERS AVENUE MISSISSAUGA, ONTARIO CANADA L4Z 1Y2 TEL (905)712-5100 FAX (905)712-5122 http://www.aqatlabs.com

CLIENT NAME: SNC LAVALIN INC

SAMPLING SITE:

ATTENTION TO: Robert Mitzakov

SAMPLED BY:

DATE RECEIVED: 2019-06-13							DATE REPORTED: 2019-06-25
	:	SAMPLE DESC	CRIPTION:	BH35-03	BH22-03A	BH52-03	
		SAMF	PLE TYPE:	Soil	Soil	Soil	
		DATE S	SAMPLED:	2019-06-12	2019-06-12	2019-06-12	
Parameter	Unit	G/S	RDL	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	

O. Reg. 153(511) - Metals & Inorganics (Soil)





AGAT WORK ORDER: 19T479815 PROJECT: City of Brampton - Phase II

CLIENT NAME: SNC LAVALIN INC

SAMPLING SITE:

ATTENTION TO: Robert Mitzakov

SAMPLED BY:

O. Reg. 153(511) - Metals & Inorganics (Soil)

DATE RECEIVED: 2019-06-13

DATE REPORTED: 2019-06-25

5835 COOPERS AVENUE

MISSISSAUGA, ONTARIO

http://www.agatlabs.com

CANADA L4Z 1Y2

TEL (905)712-5100 FAX (905)712-5122

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 *)





AGAT WORK ORDER: 19T479815 PROJECT: City of Brampton - Phase II 5835 COOPERS AVENUE MISSISSAUGA, ONTARIO CANADA L4Z 1Y2 TEL (905)712-5100 FAX (905)712-5122 http://www.aqatlabs.com

CLIENT NAME: SNC LAVALIN INC

SAMPLING SITE:

O. Reg. 153(511) - OC Pesticides (Soil)

DATE RECEIVED: 2019-06-13

01101000	(0011)	

SAMPLED BY:

ATTENTION TO: Robert Mitzakov

		SAMPLE DESC	CRIPTION:	BH35-03	BH22-03A	BH52-03	
		SAMF	PLE TYPE:	Soil	Soil	Soil	
		DATE S	SAMPLED:	2019-06-12	2019-06-12	2019-06-12	
Parameter	Unit	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	Acceptabl	le Limits				
тсмх	%	50-1	40	74	72	68	
Decachlorobiphenyl	%	60-1	30	96	82	76	
1							

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 *)

Certified By:

DATE REPORTED: 2019-06-25



AGAT WORK ORDER: 19T479815 PROJECT: City of Brampton - Phase II 5835 COOPERS AVENUE MISSISSAUGA, ONTARIO CANADA L4Z 1Y2 TEL (905)712-5100 FAX (905)712-5122 http://www.aqatlabs.com

CLIENT NAME: SNC LAVALIN INC

SAMPLING SITE:

ATTENTION TO: Robert Mitzakov

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 RDL 275045 Parameter Unit G/S Naphthalene 0.09 0.05 < 0.05 µg/g Acenaphthylene 0.093 0.05 < 0.05 µg/g 0.072 Acenaphthene µg/g 0.05 < 0.05 Fluorene 0.19 0.05 < 0.05 µg/g Phenanthrene 0.69 0.05 < 0.05 µg/g Anthracene 0.22 0.05 < 0.05 µg/g Fluoranthene µg/g 0.69 0.05 < 0.05 Pyrene µg/g 1 0.05 < 0.05 0.36 0.05 < 0.05 Benz(a)anthracene µg/g Chrysene 0.05 µg/g 2.8 < 0.05 Benzo(b)fluoranthene µg/g 0.47 0.05 < 0.05 Benzo(k)fluoranthene 0.48 0.05 µg/g < 0.05 Benzo(a)pyrene 0.3 0.05 < 0.05 µg/g Indeno(1,2,3-cd)pyrene 0.23 0.05 < 0.05 µg/g Dibenz(a,h)anthracene 0.1 0.05 < 0.05 µg/g 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. 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 *)

275045

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AGAT WORK ORDER: 19T479815 PROJECT: City of Brampton - Phase II 5835 COOPERS AVENUE MISSISSAUGA, ONTARIO CANADA L4Z 1Y2 TEL (905)712-5100 FAX (905)712-5122 http://www.aqatlabs.com

CLIENT NAME: SNC LAVALIN INC

SAMPLING SITE:

ATTENTION TO: Robert Mitzakov

SAMPLED BY:

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

DATE RECEIV	ED: 2019-06-13						DATE REPORTED: 2019-06-25
		:	SAMPLE DES	CRIPTION:	BH35-07	BH22-08A	
			SAM	PLE TYPE:	Soil	Soil	
			DATE	SAMPLED:	2019-06-12	2019-06-12	
Para	ameter	Unit	G/S	RDL	275043	275048	
F1 (C6 to C10)		hð/ð		5	<5	<5	
F1 (C6 to C10) m	inus 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 Heav	y Hydrocarbons	µg/g	120	50	NA	NA	
Moisture Content		%		0.1	9.2	8.0	
Sur	rogate	Unit	Acceptat	le Limits			
Terphenyl		%	60-	140	80	110	
Comments: 275043-275048	RDL - Reported De Residential/Parklar Guideline values a Results are based The C6-C10 fractic C6-C10 (F1 minus The C10 - C16, C1 Gravimetric Heavy The chromatogram Total C6 - C50 resi This method comp nC6 and nC10 resi nC10, nC16 and nC C50 response fact Linearity is within 1 Extraction and hold	tection Limit; nd/Institutional// re for general re on sample dry in is calculated BTEX) is a cal 6 - C34, and C Hydrocarbons in has returned ults are corrected lies with the Re ponse factors a C34 response f or is within 70% 5%. Jing times were	G / S - Guide Industrial/Com eference only. using toluene loculated param 34 - C50 fracti are not include to baseline by the ed for BTEX co ference Methor re within 30% actors are with o for C10 + nC	Ime / Standa mercial/Com The guidelin- response fac eter. The cal ons are calcu- d in the Tota the retention outribution. d for the CW of Toluene re- in 10% of the 16 + nC34 ar ample.	rd: Refers to 1 ab munity Property I es provided may tor. culated value is F llated using the a al C16-C50 and a time of nC50. 'S PHC and is va esponse factor. eir average. verage.	le 9: Generic Site Con Jse or may not be relevan ⁵¹ minus BTEX. verage response facto re only determined if th lidated for use in the la	dition Standards for Use within 30 m of a Water Body in a Non-Potable Ground Water Condition - Soil - for the intended use. Refer directly to the applicable standard for regulatory interpretation. r for n-C10, n-C16, and n-C34. he chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.
	Fractions 1-4 are q	juantified witho	ut the contribu	tion of PAHs.	Under Ontario F	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 *)



AGAT WORK ORDER: 19T479815 PROJECT: City of Brampton - Phase II 5835 COOPERS AVENUE MISSISSAUGA, ONTARIO CANADA L4Z 1Y2 TEL (905)712-5100 FAX (905)712-5122 http://www.aqatlabs.com

CLIENT NAME: SNC LAVALIN INC

SAMPLING SITE:

ATTENTION TO: Robert Mitzakov

SAMPLED BY:

				0 ()		
DATE RECEIVED: 2019-06-13					DATE REPORTED: 2019-06-25	5
	S	AMPLE DESCRIPT	TION: BH35-07	BH22-08A		
		SAMPLE T	YPE: Soil	Soil		
		DATE SAMP	LED: 2019-06-12	2019-06-12		
Parameter	Unit	G/S RI	DL 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		

O. Reg. 153(511) - VOCs (Soil)

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AGAT WORK ORDER: 19T479815 PROJECT: City of Brampton - Phase II 5835 COOPERS AVENUE MISSISSAUGA, ONTARIO CANADA L4Z 1Y2 TEL (905)712-5100 FAX (905)712-5122 http://www.aqatlabs.com

CLIENT NAME: SNC LAVALIN INC

SAMPLING SITE:

ATTENTION TO: Robert Mitzakov

SAMPLED BY:

DATE RECEIVED: 2019-06-13						DATE REPORTED: 2019-06-25
	SA	AMPLE DES	CRIPTION:	BH35-07	BH22-08A	
		SAM	PLE TYPE:	Soil	Soil	
		DATE S	SAMPLED:	2019-06-12	2019-06-12	
Parameter	Unit	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	Acceptab	le Limits			
Toluene-d8	% Recovery	50-1	40	107	109	
4-Bromofluorobenzene	% Recovery	50-1	40	80	77	

O. Reg. 153(511) - VOCs (Soil)

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 *)

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AGAT WORK ORDER: 19T479815 PROJECT: City of Brampton - Phase II 5835 COOPERS AVENUE MISSISSAUGA, ONTARIO CANADA L4Z 1Y2 TEL (905)712-5100 FAX (905)712-5122 http://www.aqatlabs.com

CLIENT NAME: SNC LAVALIN INC

SAMPLING SITE:

ATTENTION TO: Robert Mitzakov

SAMPLED BY:

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DATE RECEIVED: 2019-06-13						DATE REPORTED: 2019-06-25
		SAMPLE DESCRIPTION:	BH35-03	BH22-03A	BH52-03	
		SAMPLE TYPE:	Soil	Soil	Soil	
		DATE SAMPLED:	2019-06-12	2019-06-12	2019-06-12	
Parameter	Unit	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	
MCPP (Mecoprop)	ug/g	1.0	<1.0	<1.0	<1.0	
МСРА	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	

Phenoxy Acid Herbicides (Soil)

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

Analysis performed at AGAT Toronto (unless marked by *)

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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:

				Soi	l Ana	alysis	6									
RPT Date: Jun 25, 2019			C	UPLICATI	E		REFEREN	NCE MA	TERIAL	METHOD	BLANK	SPIKE	MATRIX SPIKE			
PARAMETER	Batch	Sample	Dup #1	Dup #2	RPD	Method Blank	Measured	Acce Lin	ptable nits	Recovery	Acce Lir	ptable nits	Recovery	Acce Lin	ptable nits	
		Id					value	Lower	Upper		Lower Upper			Lower	Upper	
O. Reg. 153(511) - Metals & I	norganics (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.

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AGAT QUALITY ASSURANCE REPORT (V1)

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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

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RPT Date: Jun 25, 2019		C	UPLICAT		REFERE	NCE MA	TERIAL	METHOD	BLANK	K SPIKE	MAT	RIX SPI	KE		
PARAMETER	Batch	Sample	Dup #1	Dup #2	RPD	Method Blank	Measured	Acce Lir	ptable nits	Recoverv	Acce Lir	eptable nits	Recoverv	Acce Lir	ptable nits
		Ia					value	Lower Upper			Lower	Upper		Lower	Upper
O. Reg. 153(511) - PHCs F1 - F4 (-BTEX) (Sc	oil)									•				
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%

AGAT QUALITY ASSURANCE REPORT (V1)

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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)

			- 3		-	,	\			/					
RPT Date: Jun 25, 2019			0	DUPLICAT	E		REFERE	NCE MA	TERIAL	METHOD	BLAN	(SPIKE	MAT	RIX SPI	KE
PARAMETER	Batch	Sample	Dun #1	Dun #2	RPD	Method Blank	Measured	Acce Lir	eptable mits	Recovery	Acce Lir	eptable mits	Recovery	Acce Lir	ptable mits
	Baion	ld	Dup "	2 dp //2			Value	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%

AGAT QUALITY ASSURANCE REPORT (V1)

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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)

			0			,	`			,					
RPT Date: Jun 25, 2019			C	DUPLICAT	E		REFERE	NCE MA	TERIAL	METHOD	BLANK	SPIKE	MAT	RIX SPI	KE
PARAMETER	Batch	Sample	Dup #1	Dup #2	RPD	Method Blank	Measured	Acce Lir	eptable nits	Recovery	Acce Lir	ptable nits	Recovery	Acce Lir	ptable nits
		iù					value	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:

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AGAT QUALITY ASSURANCE REPORT (V1)



Method Summary

CLIENT NAME: SNC LAVALIN INC

PROJECT: City of Brampton - Phase II

SAMPLING SITE

AGAT WORK ORDER: 19T479815 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-84 6010C	⁶ 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

AGAT WORK ORDER: 19T479815 ATTENTION TO: Robert Mitzakov

SAMPLING SITE: SAMPLED BY:							
PARAMETER	AGAT S.O.P	AGAT S.O.P LITERATURE REFERENCE					
Trace Organics Analysis	I	I					
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				
тсмх	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	VOI -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
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

PROJECT: City of Brampton - Phase II

AGAT WORK ORDER: 19T479815

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							
МСРА	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							

Chain of Custody Record	ato	ori	Ies	Ph	: 905	Mi 5.712 ater c	ssissa 2.5100 we	835 Co uga, On Fax: 9 bearth	opers tario L 05.71 agatla	Aven _4Z 1 2.51 :bs.cc	ue Y2 22 m		.ab Vork Coole	Order Order r Qua	:ory r #: antity		e Or	nly 4' 1 2,5	70	78	515 C1	(e) 8	
Chain of Custody Record If this is a Drinking Water sample, ple Report Information: Contact: 195 The Uest Heall, Toreto, ON Address: 195 The Uest Heall, Toreto, ON Phone: Reports to be sept to: 1. Email: Repeate Healton Operation Operation Con 2. Email: Abed. Yessine Operation Phase II Project: Cte of Brespton Phase II Site Location: 1012 Highung 50, Buardon, ON Sampled By: Source Restand AGAT Quote #: Po: 6651235 Please note: If guotation number is not provided, client will be billed full price for analysis.		se Dri Ree (Plea E Soil C C C R C Sa B	inking Water Chain of Custody For agulatory Requirement ase check all applicable boxes) Regulation 153/04 Table	Indicate Or IISA		Ree Cer	Port tiffca 0. Rec 9. R	tory F Regulat CCCME Prov. WW Dbbjectiv Dther Indicide te of 1 2 153	anans) Acqui ater Qu a	rem 8 uality VQO) on ysis NO	ent	TI R	Custo Notes urna egu ush	dy Se s: arou lar T TAT 3 Bi Day OR + *TAT 'Sam	ial In ind ind iand	tact: Tim Surchau >SS > Requ se pro xclusi ny' an	uired	Yes I Yes I 5 to: J 5 to: Day Rush prior: weeke s, plea ar ar	Req by 7 Busines ys a Surch notifica asse co	uired siness ss ation fi ation fi ation fi start	Days Days Days Nu Days Days Days Days Days Days Days Days	ext Busin ay ply): TAT toolidays AT CPM	ness
Invoice Information: Bill To Same: Yes I No I Company: Contact: Address: Image: Contact: Email: Image: Contact:		GW O P S SD SW	Ground Water Oil Paint Soll Sediment Surface Water		Field Filtered - Metals, H	s and Inorganics	etals 🗌 153 Metals (exol, Hydrid de Metals 🗌 153 Metals (Incl. Hy	DB-HWS DCI: DCN DEC DFOC DHE	JSAR otals Scan	ation/Custom Metals		es: 0 voc 0 btex 0 th	F1-F4 1 1201	2222		Totai Aroclors	ochlorine Pesticides] M&I 🗖 VOCS 🗌 ABNS 🗍 B(Usyes	Hetels/	bricks / Petro		ally Hazardous or High Concent
Sample Identification Date Time # of Containers	Samp	ple rix	Comments/ Special Instructions	Y.	/ N	Metals	All Me	ORPs:	H H L	Regula	Nutrier	Volatile	PHCs F	ABNs	PAHs	PCBs:	Organo		Sewer	S.C.	E	-	Potentia
BH 35-03 Jine 12/19 8:50	5.	\boldsymbol{Y}	Limited Recorder												T				>	× Z	X		
BH35-07 1 9:40 2.	Sol	l	1										2	4						3.6	2		
BHZZ-03A 12:10 Z	So.														X				Σ	13	X		
BH22-08A 13:85 Z	521			_	-	-			_		_		X	-	-				_	~	-	-	
		-			-	-				1			-		F	-	-		-	+	+		F
Samples Relinquished By (Print Name and Sign): Date Date Samples Relinquished By (Print Name and Sign): Date Time Samples Relinquished By (Print Name and Sign): Date Time	7:0		Samplas Received By (Print Jame and Si Samples Received By (Print Name and Si Samples Received By (Print Name and Si	ign): (gn): ign):	0		2 m	n n	U		ate Sun ate ate	e	12	Time	1 <u>5</u>	28) •: T	Page _	09	_ of	57	-

12



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.

 AGAT Laboratories (V1)
 Page 1 of 24

 Member of: Association of Professional Engineers and Geoscientists of Alberta (APEGA)
 AGAT Laboratories is accredited to ISO/IEC 17025 by the Canadian Association for Laboratory

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

Results relate only to the items tested. Results apply to samples as received. All reportable information as specified by ISO 17025:2017 is available from AGAT Laboratories upon request



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.aqatlabs.com

CLIENT NAME: SNC LAVALIN INC

SAMPLING SITE:

ATTENTION TO: Robert Mitzakov

SAMPLED BY:

O. Reg. 153(511) - Metals & Inorganics (Soil)

DATE RECEIVED: 2019-06-21						DATE REPORTED: 2019-06-28
	SA	MPLE DESC	CRIPTION:	BH33-2	BH33-22	
		SAMF	PLE TYPE:	Soil	Soil	
		DATE S	SAMPLED:	2019-06-19	2019-06-19	
Parameter	Unit	G/S	RDL	294685	294693	
Antimony	hð/ð	1.3	0.8	<0.8	<0.8	
Arsenic	µg/g	18	1	4	4	
Barium	hð/ð	220	2	81	98	
Beryllium	hð/ð	2.5	0.5	<0.5	0.5	
Boron	hð/ð	36	5	7	8	
Boron (Hot Water Soluble)	µg/g	1.5	0.10	<0.10	<0.10	
Cadmium	hð/ð	1.2	0.5	<0.5	<0.5	
Chromium	hð/ð	70	2	19	22	
Cobalt	hð/ð	22	0.5	9.1	10.0	
Copper	hð/ð	92	1	18	18	
Lead	hð/ð	120	1	8	9	
Molybdenum	µg/g	2	0.5	<0.5	<0.5	
Nickel	hð/ð	82	1	21	24	
Selenium	hð/ð	1.5	0.4	<0.4	<0.4	
Silver	hð/ð	0.5	0.2	<0.2	<0.2	
Thallium	µg/g	1	0.4	<0.4	<0.4	
Uranium	hð/ð	2.5	0.5	<0.5	<0.5	
Vanadium	hð/ð	86	1	29	31	
Zinc	hð/ð	290	5	46	46	
Chromium VI	hð/ð	0.66	0.2	<0.2	<0.2	
Cyanide	hð/ð	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	





AGAT WORK ORDER: 19T483045 PROJECT: City of Brampton Phase 2 ESA

CLIENT NAME: SNC LAVALIN INC

SAMPLING SITE:

ATTENTION TO: Robert Mitzakov

SAMPLED BY:

O. Reg. 153(511) - Metals & Inorganics (Soil)

DATE REPORTED: 2019-06-28

5835 COOPERS AVENUE

MISSISSAUGA, ONTARIO

http://www.agatlabs.com

CANADA L4Z 1Y2

TEL (905)712-5100 FAX (905)712-5122

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 *)





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

SAMPLING SITE:

ATTENTION TO: Robert Mitzakov

SAMPLED BY:

				O. Reg. 5	58 Metals and Inorganics
DATE RECEIVED: 2019-06-21					DATE REPORTED: 2019-06-28
	S	AMPLE DES	CRIPTION:	COMP-1	
		SAM	PLE 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 *)





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.aqatlabs.com

CLIENT NAME: SNC LAVALIN INC

SAMPLING SITE:

ATTENTION TO: Robert Mitzakov

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 RDL 294694 Parameter Unit G/S Hexachloroethane 0.01 0.01 < 0.01 µg/g Gamma-Hexachlorocyclohexane 0.01 0.005 < 0.005 µg/g Heptachlor µg/g 0.05 0.005 < 0.005 Aldrin µg/g 0.05 0.005 < 0.005 Heptachlor Epoxide 0.05 0.005 < 0.005 µg/g 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 0.05 0.007 µg/g < 0.007 DDT 1.4 0.007 < 0.007 µg/g Dieldrin µg/g 0.05 0.005 < 0.005 Endrin 0.04 µg/g 0.005 < 0.005 0.005 Methoxychlor µg/g 0.05 < 0.005 Hexachlorobenzene µg/g 0.02 0.005 < 0.005 Hexachlorobutadiene 0.01 0.01 < 0.01 µg/g Moisture Content % 0.1 13.9 Surrogate Unit Acceptable Limits тсмх % 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 *)

NPopukolof



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.aqatlabs.com

CLIENT NAME: SNC LAVALIN INC

SAMPLING SITE:

ATTENTION TO: Robert Mitzakov

SAMPLED BY:

				3	
DATE RECEIVED: 2019-06-21					DATE REPORTED: 2019-06-28
	:	SAMPLE DESC	RIPTION:	BH33-3	
		SAMPI	LE TYPE:	Soil	
		DATE SA	AMPLED:	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	e Limits		
Chrysene-d12	%	50-14	ł0	73	
		<u> </u>	101		

O. Reg. 153(511) - PAHs (Soil)

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. 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 *)

294694

Certified By:

NPopukoloj



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.aqatlabs.com

CLIENT NAME: SNC LAVALIN INC

SAMPLING SITE:

ATTENTION TO: Robert Mitzakov

SAMPLED BY:

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

DATE RECEIVE	ED: 2019-06-21						DATE REPORTED: 2019-06-28
		S	SAMPLE DES	CRIPTION:	BH33-7	BH33-77	
			SAM	PLE TYPE:	Soil	Soil	
			DATE	SAMPLED:	2019-06-19	2019-06-19	
Para	meter	Unit	G/S	RDL	294696	294732	
F1 (C6 to C10)		µg/g		5	<5	<5	
F1 (C6 to C10) mi	nus 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	
Surr	ogate	Unit	Acceptab	le Limits			
Terphenyl		%	60-1	40	91	110	
Comments:	RDL - Reported De	tection Limit;	G / S - Guide	line / Standa	rd: Refers to Tab	le 9: Generic Site C	ondition Standards for Use within 30 m of a Water Body in a Non-Potable Ground Water Condition - Soil -
	Residential/Parklan	d/Institutional/I	ndustrial/Com	nercial/Com	munity Property l	Jse or mov not be relev	ant for the intended use. Befor directly to the applicable standard for regulatory interpretation
204606-204732	Posulte are based of	e ioi generalite	woight	rne guidelin	es provided may	of filay flot be felev	
294090-294732	The C6-C10 fraction	n is calculated	using toluene	esponse fac	tor		
	C6-C10 (F1 minus	BTEX) is a cal	culated param	eter. The cal	culated value is F	1 minus BTEX.	
	The C10 - C16, C16	6 - C34, and C3	34 - C50 fractio	ons are calcu	lated using the a	verage response fa	ctor for n-C10, n-C16, and n-C34.
	Gravimetric Heavy	Hydrocarbons a	are not include	d in the Tota	al C16-C50 and a	re only determined	f the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.
	The chromatogram	has returned to	o baseline by t	ne retention	time of nC50.		
	Total C6 - C50 resu	Its are correcte	ed for BTEX co	ntribution.			
	This method compli	es with the Rel	ference Metho	d for the CW	S PHC and is va	lidated for use in the	aboratory.
	nC6 and nC10 resp	onse factors al	re within 30% (of I oluene re	esponse factor.		
	nc10, nc16 and nc	34 response to	actors are with		eir average.		
	Linearity is within 1	5%		10 + 11034 av	velage.		
	Extraction and hold	ina times were	met for this sa	mple			

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.

Certified By:

NPopukolof



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

SAMPLING SITE:

ATTENTION TO: Robert Mitzakov

SAMPLED BY:

					3	
DATE RECEIVED: 2019-06-21						DATE REPORTED: 2019-06-28
	S	AMPLE DES	CRIPTION:	BH33-7	BH33-77	
		SAM	PLE TYPE:	Soil	Soil	
		DATES	SAMPLED:	2019-06-19	2019-06-19	
Parameter	Unit	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	

O. Reg. 153(511) - VOCs (Soil)

Certified By:

NPopukoloj



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.aqatlabs.com

CLIENT NAME: SNC LAVALIN INC

SAMPLING SITE:

ATTENTION TO: Robert Mitzakov

SAMPLED BY:

					<u> </u>	
DATE RECEIVED: 2019-06-21						DATE REPORTED: 2019-06-28
	S	AMPLE DES	CRIPTION:	BH33-7	BH33-77	
		SAM	PLE TYPE:	Soil	Soil	
		DATES	SAMPLED:	2019-06-19	2019-06-19	
Parameter	Unit	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	Acceptab	le Limits			
Toluene-d8	% Recovery	50-1	140	109	108	
4-Bromofluorobenzene	% Recovery	50-1	140	80	79	

O. Reg. 153(511) - VOCs (Soil)

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.

Certified By:

NPopukolof



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.aqatlabs.com

CLIENT NAME: SNC LAVALIN INC

SAMPLING SITE:

ATTENTION TO: Robert Mitzakov

SAMPLED BY:

				-	-9
DATE RECEIVED: 2019-06-21					DATE REPORTED: 2019-06-28
	S	SAMPLE DES	CRIPTION:	COMP-1	
		SAM	PLE TYPE:	Soil	
		DATES	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	Acceptab	le Limits		
Chrysene-d12	%	50-1	30	101	

O. Reg. 558 - SVOCs

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to O. Reg. 558 - Schedule IV Leachate Quality Criteria

294734 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. 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.

Certified By:

NPopukolof



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.aqatlabs.com

CLIENT NAME: SNC LAVALIN INC

SAMPLING SITE:

ATTENTION TO: Robert Mitzakov

SAMPLED BY:

DATE RECEIVED: 2019-06-21					DATE REPORTED: 2019-06-28
	S	AMPLE DES	CRIPTION:	COMP-1	
		SAM	PLE 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	Acceptab	ole Limits		
Toluene-d8	% Recovery	60-	130	91	

O Reg 558 - VOCs

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.

Certified By:

NPopukolof



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.aqatlabs.com

CLIENT NAME: SNC LAVALIN INC

SAMPLING SITE:

ATTENTION TO: Robert Mitzakov

SAMPLED BY:

			Phenoxy	Acid Herbicides (Soil)
DATE RECEIVED: 2019-06-2	1			DATE REPORTED: 2019-06-28
	5	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	
MCPP (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:

NPopukolof



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.aqatlabs.com

CLIENT NAME: SNC LAVALIN INC

SAMPLING SITE:

ATTENTION TO: Robert Mitzakov

SAMPLED BY:

					Total PCBs (soil)
DATE RECEIVED: 2019-06-21	l				DATE REPORTED: 2019-06-28
	S	SAMPLE DES	CRIPTION:	COMP-1	
		SAM	PLE TYPE:	Soil	
		DATES	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	Acceptab	le Limits		
Decachlorobiphenyl	%	60-1	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.

Certified By:

NPopukolof



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:

				Soi	l Ana	alysis	5								
RPT Date: Jun 28, 2019			DUPLICATE				REFERENCE MATERIAL			METHOD	BLANK	SPIKE	MATRIX SPIKE		KE
PARAMETER	Batch	Sample	Dup #1	Dup #2	RPD	Method Blank	Measured	Acce Lir	ptable nits	Recovery	Acce	ptable nits	Recovery	Acce Lir	ptable nits
							value	Lower	Upper]	Lower	Upper]	Lower	Upper
O. Reg. 153(511) - Metals & In	organics (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 Inorgani	cs													
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%

AGAT QUALITY ASSURANCE REPORT (V1)

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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		C	UPLICAT	E		REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE			
PARAMETER	Batch	Sample	Dup #1	Dup #2	RPD	Method Blank	Measured	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
							value	Lower	Upper	r	Lower	Upper	r	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





AGAT QUALITY ASSURANCE REPORT (V1)

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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

					9										
RPT Date: Jun 28, 2019			C	DUPLICAT	E		REFERENCE MATERIAL			METHOD	BLANK	K SPIKE	MAT	RIX SPI	KE
PARAMETER	Batch	Sample	Dup #1	Dup #2	RPD	Method Blank	Measured	Acce Lir	ptable nits	Recovery	Acce Lir	eptable nits	Recovery	Acce Lin	ptable nits
		IG					value	Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - PAHs (Soil)	•											1			
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%

AGAT QUALITY ASSURANCE REPORT (V1)

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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)

PARAMETER Bartch Sample L Dup #2 PPO PHO Method Mate Acceptable Mate Dinsach 268388 <0.10 <0.10 NA <0.10 103% 65% 130% 65%	RPT Date: Jun 28, 2019			C	UPLICAT	E		REFERE	NCE MA	TERIAL	METHOD	BLAN	(SPIKE	MAT	RIX SPI	IKE
District D L Value Lower Upper Lower Lower Uppe	PARAMETER	Batch	Sample	Dup #1	Dup #2	RPD	Method Blank	Measured	Acce Lir	eptable nits	Recoverv	Acce Lir	eptable nits	Recoverv	Acce	ptable nits
Dnaseh 28838 0.10 <0.10			Ia					Lower	Upper		Lower	Upper		Lower	Upper	
Pickargn 268338 0.10 0.10 NA 0.103% 50% 130%	Dinoseb	268398		< 0.10	< 0.10	NA	< 0.10	75%	50%	130%	65%	50%	130%	63%	50%	130%
Diologomentinyl 288388 < 0.10 < 0.10 NA < 0.05 100% 50%	Picloram	268398		< 0.10	< 0.10	NA	< 0.10	103%	50%	130%	80%	50%	130%	64%	50%	130%
2.3.4.6 117% 50% 107	Diclofop-methyl	268398		< 0.10	< 0.10	NA	< 0.10	105%	50%	130%	101%	50%	130%	95%	50%	130%
2.4.Dichlorophenol 268398 < 0.05	2,3,4,6-Tetrachlorophenol	268398		< 0.05	< 0.05	NA	< 0.05	117%	50%	130%	101%	50%	130%	97%	50%	130%
2.4.5-Trichlorophenol 268398 < 0.05	2,4-Dichlorophenol	268398		< 0.05	< 0.05	NA	< 0.05	99%	50%	130%	90%	50%	130%	74%	50%	130%
2.4.6.Tichlorophenol 268398 < 0.05	2,4,5-Trichlorophenol	268398		< 0.05	< 0.05	NA	< 0.05	90%	50%	130%	85%	50%	130%	70%	50%	130%
Bromoxynii 268398 < 0.5 < 0.5 NA < 0.5 88% 60% 130% 96% 60% 130% 96% 60% 130% 96% 60% 130% 96% 60% 130% 96% 60% 130% 96% 60% 130% 96% 60% 130% 96% 60% 130% 96% 60% 130% 96% 60% 130% 96% 60% 130% 96% 60% 130% 96% 60% 130% 96% 60% 130% 96% 60% 130% 96% 60% 130% 10% 86% 70% 130% 10% 10% 86% 70% 130% 10%	2,4,6-Trichlorophenol	268398		< 0.05	< 0.05	NA	< 0.05	111%	50%	130%	101%	50%	130%	97%	50%	130%
MCPP (Mecoprop) 268398 < 1.0 < 1.0 NA < 1.0 NA < 50% 130% 90% 50% 130% 90% 50% 130% 90% 50% 130% 90% 50% 130% 90% 50% 130% 90% 50% 130% 90% 50% 130% 90% 50% 130% 90% 50% 130% 90% 50% 130% 90% 50% 130% 90% 50% 130% 90% 50% 130% 90% 50% 130% 90% 50% 130% 90% 50% 130% 10% 80% 10% 80% 10% 80% 10% 80% 10% 80% 10%	Bromoxynil	268398		< 0.5	< 0.5	NA	< 0.5	98%	60%	130%	95%	60%	130%	94%	60%	130%
MCPA 268388 <1.0 <1.0 NA <1.0 NA 50% 130% 90% 50% 130% 90% 50% 130% 90% 50% 130% 90% 50% 130% 90% 50% 130% 90% 50% 130% 90% 50% 130% 90% 50% 130% 90% 50% 130% 90% 50% 130% 90% 50% 130% 90% 50% 130% 90% 50% 130% 90% 50% 130% 100% 60% 130% 100% 60% 130% 120% 80% 120% 80% 120% 80% 120% 80% 120% 80% 120% 80% 120% 80% 120% 80% 120% 80% 120% 80% 120% 80% 120% 80% 120% 80% 120% 80% 120% 80% 120% 80% 120% 80% 120% 120% 120% 120%<	MCPP (Mecoprop)	268398		< 1.0	< 1.0	NA	< 1.0	NA	50%	130%	100%	50%	130%	80%	50%	130%
Pentachiorophenol 268398 < 0.05 < 0.05 NA < 0.05 9.0% 5.0% 13.0% 8.0% 5.0% 13.0% O. Reg. 153(611) - PHCs F1 - F4 (BTEX) 300201 < 5	MCPA	268398		< 1.0	< 1.0	NA	< 1.0	NA	50%	130%	98%	50%	130%	90%	50%	130%
O. Reg. 153(611) - PHCs F1 - F4 (-BTEX) (Soli) F1 (C6 to C10) 300201 < 5	Pentachlorophenol	268398		< 0.05	< 0.05	NA	< 0.05	94%	50%	130%	90%	50%	130%	80%	50%	130%
F1 (CB to C10) 300201 < 5	O. Reg. 153(511) - PHCs F1 - F4	4 (-BTEX) (Sc	oil)													
F2 (C10 to C16) 247073 < 10	F1 (C6 to C10)	300201		< 5	< 5	NA	< 5	113%	60%	130%	104%	85%	115%	95%	70%	130%
F3 (C16 to C34) 247073 < 50	F2 (C10 to C16)	247073		< 10	< 10	NA	< 10	102%	60%	130%	107%	80%	120%	86%	70%	130%
F4 (C34 to C50) 247073 < 50	F3 (C16 to C34)	247073		< 50	< 50	NA	< 50	103%	60%	130%	117%	80%	120%	91%	70%	130%
O. Reg. 153(511) - VOCs (Soil) Dichlorodifluoromethane 291666 < 0.05	F4 (C34 to C50)	247073		< 50	< 50	NA	< 50	94%	60%	130%	119%	80%	120%	118%	70%	130%
Dichlorodifluoromethane 291666 < 0.05 < 0.05 NA < 0.05 85% 50% 140% 88% 50% 140% 88% 50% 140% 88% 50% 140% 88% 50% 140% 88% 50% 140% 102% 50% 140% 102% 50% 140% 102% 50% 140% 117% 50% 140% 117% 50% 140% 117% 50% 140% 102% 50% 140% 117% 50% 140% 102% 50% 140% 117% 50% 140% 102% 50% 140% 12% 50% 140% 12% 50% 140% 12% 50% 140% 12% 50% 140% 14% 95% 50% 140% 12% 50% 140% 12% 50% 140% 12% 50% 140% 12% 50% 140% 12% 50% 140% 12% 50% 140% 12% 50% 140% 12% 50% 140% 12% 50% 140% 12% 50% 140%	O. Reg. 153(511) - VOCs (Soil)															
Vinyl Chloride 291666 < 0.02 < 0.02 NA < 0.02 99% 50% 140% 99% 50% 140% 102% 50% 140% Bromomethane 291666 < 0.05	Dichlorodifluoromethane	291666		< 0.05	< 0.05	NA	< 0.05	85%	50%	140%	88%	50%	140%	88%	50%	140%
Bromomethane 291666 < 0.05 < 0.05 NA < 0.05 103% 50% 140% 117% 50% 140% 111% 50% 140% Trichlorofluoromethane 291666 < 0.05	Vinyl Chloride	291666		< 0.02	< 0.02	NA	< 0.02	99%	50%	140%	99%	50%	140%	102%	50%	140%
Trichlorofluoromethane 291666 < 0.05 < 0.05 NA < 0.05 96% 50% 140% 92% 50% 140% Acetone 291666 < 0.05	Bromomethane	291666		< 0.05	< 0.05	NA	< 0.05	103%	50%	140%	117%	50%	140%	111%	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	Trichlorofluoromethane	291666		< 0.05	< 0.05	NA	< 0.05	96%	50%	140%	95%	50%	140%	102%	50%	140%
1,1-Dichloroethylene 291666 < 0.05	Acetone	291666		< 0.50	< 0.50	NA	< 0.50	96%	50%	140%	95%	50%	140%	92%	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	1,1-Dichloroethylene	291666		< 0.05	< 0.05	NA	< 0.05	78%	50%	140%	99%	60%	130%	102%	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	Methylene Chloride	291666		< 0.05	< 0.05	NA	< 0.05	106%	50%	140%	83%	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	Trans- 1,2-Dichloroethylene	291666		< 0.05	< 0.05	NA	< 0.05	91%	50%	140%	115%	60%	130%	105%	50%	140%
1,1-Dichloroethane 291666 < 0.02	Methyl tert-butyl Ether	291666		< 0.05	< 0.05	NA	< 0.05	118%	50%	140%	96%	60%	130%	80%	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	1,1-Dichloroethane	291666		< 0.02	< 0.02	NA	< 0.02	90%	50%	140%	113%	60%	130%	97%	50%	140%
Cis- 1,2-Dichloroethylene 291666 < 0.02	Methyl Ethyl Ketone	291666		< 0.50	< 0.50	NA	< 0.50	96%	50%	140%	97%	50%	140%	92%	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	Cis- 1,2-Dichloroethylene	291666		< 0.02	< 0.02	NA	< 0.02	88%	50%	140%	119%	60%	130%	102%	50%	140%
1,2-Dichloroethane 291666 < 0.03	Chloroform	291666		< 0.04	< 0.04	NA	< 0.04	81%	50%	140%	116%	60%	130%	111%	50%	140%
1,1,1-Trichloroethane 291666 < 0.05	1,2-Dichloroethane	291666		< 0.03	< 0.03	NA	< 0.03	95%	50%	140%	87%	60%	130%	81%	50%	140%
Carbon Tetrachloride 291666 < 0.05	1,1,1-Trichloroethane	291666		< 0.05	< 0.05	NA	< 0.05	78%	50%	140%	103%	60%	130%	90%	50%	140%
Benzene 291666 < 0.02	Carbon Tetrachloride	291666		< 0.05	< 0.05	NA	< 0.05	85%	50%	140%	92%	60%	130%	95%	50%	140%
1,2-Dichloropropane 291666 < 0.03	Benzene	291666		< 0.02	< 0.02	NA	< 0.02	88%	50%	140%	109%	60%	130%	115%	50%	140%
Trichloroethylene 291666 < 0.03 < 0.03 NA < 0.03 86% 50% 140% 108% 60% 130% 115% 50% 140% Bromodichloromethane 291666 < 0.05	1,2-Dichloropropane	291666		< 0.03	< 0.03	NA	< 0.03	97%	50%	140%	84%	60%	130%	86%	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	Trichloroethylene	291666		< 0.03	< 0.03	NA	< 0.03	86%	50%	140%	108%	60%	130%	115%	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	Bromodichloromethane	291666		< 0.05	< 0.05	NA	< 0.05	90%	50%	140%	80%	60%	130%	83%	50%	140%
1,1,2-Trichloroethane 291666 < 0.04 < 0.04 NA < 0.04 78% 50% 140% 98% 60% 130% 105% 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%

AGAT QUALITY ASSURANCE REPORT (V1)

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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)

			5			,	`			/					
RPT Date: Jun 28, 2019		DUPLICATE				REFERE	NCE MA	TERIAL	METHOD	BLAN	K SPIKE	MATRIX SPIKE			
PARAMETER	Batch	Sample	Dup #1	Dup #2	RPD	Method Blank	Measured	Acce Lir	eptable nits	Recovery	Acce Lii	eptable mits	Recovery	Acce	ptable mits
							Value	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%
AGAT QUALITY ASSURA	NCE REPOR	RT (V1)											F	age 18	of 24



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	RPT Date: Jun 28, 2019				DUPLICATE			NCE MA	TERIAL	METHOD	BLANK	SPIKE	MATRIX SPIKE		
PARAMETER	Batch	Sample	Dup #1	Dup #2	RPD	Method Blank	Measured	Acce Lir	ptable nits	Recovery	Acce Lir	eptable nits	Recovery	Acce Lir	eptable nits
		Id					value	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:

NPopukot

AGAT QUALITY ASSURANCE REPORT (V1)

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Method Summary

CLIENT NAME: SNC LAVALIN INC

PROJECT: City of Brampton Phase 2 ESA

SAMPLING SITE

AGAT WORK ORDER: 19T483045 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	CP/OES							
pH, 2:1 CaCl2 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 - NO3- I	LACHAT FIA							



Method Summary

CLIENT NAME: SNC LAVALIN INC

PROJECT: City of Brampton Phase 2 ESA

SAMPLING SITE:

AGAT WORK ORDER: 19T483045 ATTENTION TO: Robert Mitzakov SAMPLED BY:

PARAMETER AGAT S.O.P LITERATURE REFERENCE ANALYTICAL TECHNIQUE Haacabioroethane ORG-91-5113 EPA SW-846 3541 3220 8 081 GC/ECD Gamma -Hoscikhoroydohexane ORG-91-5113 EPA SW-846 3541 3202 8 081 GC/ECD Matin ORG-91-5113 EPA SW-846 3541 3202 8 081 GC/ECD Addin ORG-91-5113 EPA SW-846 3541 3202 8 081 GC/ECD Chloridane ORG-91-5113 EPA SW-846 3541 3202 8 081 GC/ECD Chloridane ORG-91-5113 EPA SW-846 3541 3202 8 081 GC/ECD DDE ORG-91-5113 EPA SW-846 3541 3202 8 081 GC/ECD DDT ORG-91-5113 EPA SW-846 3541 3202 8 081 GC/ECD DDT ORG-91-5113 EPA SW-846 3541 3202 8 081 GC/ECD DDT ORG-91-5113 EPA SW-846 3541 3202 8 081 GC/ECD Hetaxabiorobanizane ORG-91-5113 EPA SW-846 3541 3202 8 081 GC/ECD Hoxachiorobanizane ORG-91-5113 EPA SW-846 3541 3202 8 081 GC/ECD Hoxachiorobanizane ORG-91-5113 EPA SW-846 3541 3202 8 081 GC/ECD			Grittin EED B1:						
Trace Organics Analysis Hexachlorocyclohexane ORG-91-5113 EPA SW-846 3541,3620 & 8081 GC/ECD Gamma-Hexachlorocyclohexane ORG-91-5113 EPA SW-846 3541,3620 & 8081 GC/ECD Aldin ORG-91-5113 EPA SW-846 3541,3620 & 8081 GC/ECD Endosulfan ORG-91-5113 EPA SW-846 3541,3620 & 8081 GC/ECD Endosulfan 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 DDT ORG-91-5113 EPA SW-846 3541,3620 & 8081 GC/ECD Methoxychlor ORG-91-5113 EPA SW-846 3541,3620 & 8081 GC/ECD Hexachlorochudalene ORG-91-5113 EPA SW-846 3541,3820 & 8081 GC/ECD Hexachlorochudalene ORG-91-5113 EPA SW-846 3541,3820 & 8081 GC/ECD Hexachlorochudalene ORG-91-5106 EPA SW-846 3541 8 8270D GC/MS Ademaphthene ORG-91-5106	PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE					
Hexachtoroethane ORG-91-5113 EPA SW-846 3541,3202 & 8081 GC/ECD Meptachlor ORG-91-5113 EPA SW-846 3541,3202 & 8081 GC/ECD Heptachlor ORG-91-5113 EPA SW-846 3541,3202 & 8081 GC/ECD Haptachlor Epoxide ORG-91-5113 EPA SW-846 3541,3202 & 8081 GC/ECD Endosulfan ORG-91-5113 EPA SW-846 3541,3202 & 8081 GC/ECD DDE ORG-91-5113 EPA SW-846 3541,3202 & 8081 GC/ECD DDD ORG-91-5113 EPA SW-846 3541,3202 & 8081 GC/ECD DDT ORG-91-5113 EPA SW-846 3541,3202 & 8081 GC/ECD DDT ORG-91-5113 EPA SW-846 3541,3202 & 8081 GC/ECD Endrin ORG-91-5113 EPA SW-846 3541,3202 & 8081 GC/ECD Hexachtorobutaclene ORG-91-5106 EPA SW-846 3541,8200 & 8061 GC/ECD </td <td>Trace Organics Analysis</td> <td></td> <td></td> <td></td>	Trace Organics Analysis								
Gamma-Hexachlorocyclohexane ORG-91-5113 EPA SW-846 3541.3202 8.001 GC/ECD Aldrin ORG-91-5113 EPA SW-846 3541.3202 8.001 GC/ECD Aldrin ORG-91-5113 EPA SW-846 3541.3202 8.001 GC/ECD Endosulfan ORG-91-5113 EPA SW-846 3541.3202 8.001 GC/ECD Endosulfan ORG-91-5113 EPA SW-846 3541.3202 8.001 GC/ECD DDE ORG-91-5113 EPA SW-846 3541.3202 8.001 GC/ECD DDD ORG-91-5113 EPA SW-846 3541.3202 8.001 GC/ECD Deldrin ORG-91-5113 EPA SW-846 3541.3202 8.001 GC/ECD Deldrin ORG-91-5113 EPA SW-846 3541.3202 8.001 GC/ECD Hexachloroburate ORG-91-5113 EPA SW-846 3541.3202 8.001 GC/ECD Hexachloroburate ORG-91-5113 EPA SW-846 3541.3202 8.001 GC/ECD Hexachloroburate ORG-91-5113 EPA SW-846 3541.3202 8.001 GC/ECD Moisture Content Mode 3541.8202 8.001 GC/ECD GC/ECD Moisture Content Mode 3541.8202 8.001 GC/MS Acenaphthene ORG-9	Hexachloroethane	ORG-91-5113	EPA SW-846 3541,3620 & 8081	GC/ECD					
Heptachlor ORG-91-5113 EPA SW-846 3541,3202 8.001 GC/ECD Heptachlor Epoxide ORG-91-5113 EPA SW-846 3541,3202 8.001 GC/ECD Indexulfan ORG-91-5113 EPA SW-846 3541,3202 8.001 GC/ECD Chiordane ORG-91-5113 EPA SW-846 3541,3202 8.001 GC/ECD DD ORG-91-5113 EPA SW-846 3541,3202 8.001 GC/ECD DD ORG-91-5113 EPA SW-846 3541,3202 8.001 GC/ECD DD ORG-91-5113 EPA SW-846 3541,3202 8.001 GC/ECD Endrin ORG-91-5113 EPA SW-846 3541,3202 8.001 GC/ECD Hexachlorobutadiene ORG-91-5113 EPA SW-846 3541,3202 8.001 GC/ECD Hexachlorobutadiene ORG-91-5112 EPA SW-846 3541,3202 8.001 GC/ECD TCMX ORG-91-5112 EPA SW-846 3541,3202 8.001 GC/ECD Decachlorobutadiene ORG-91-5112 EPA SW-846 3541,3202 8.001 GC/ECD Mashtaneo ORG-91-5106 EPA SW-846 3541,3202 8.001 GC/MS Acenaphthene ORG-91-5106 EPA SW-846 3541,82700 GC/MS Housanthone </td <td>Gamma-Hexachlorocyclohexane</td> <td>ORG-91-5113</td> <td>EPA SW-846 3541,3620 & 8081</td> <td>GC/ECD</td>	Gamma-Hexachlorocyclohexane	ORG-91-5113	EPA SW-846 3541,3620 & 8081	GC/ECD					
Aldrin ORG-91-5113 EPA SW-945 3541, 3620 & 8081 GC/ECD Heptachier Eposide ORG-91-5113 EPA SW-946 3541, 3620 & 8081 GC/ECD Endosulfan ORG-91-5113 EPA SW-946 3541, 3620 & 8081 GC/ECD DDE ORG-91-5113 EPA SW-946 3541, 3620 & 8081 GC/ECD DDD ORG-91-5113 EPA SW-946 3541, 3620 & 8081 GC/ECD DDI ORG-91-5113 EPA SW-946 3541, 3620 & 8081 GC/ECD Dialdrin ORG-91-5113 EPA SW-946 3541, 3620 & 8081 GC/ECD Endrin ORG-91-5113 EPA SW-946 3541, 3620 & 8081 GC/ECD Hexachloroblance ORG-91-5113 EPA SW-946 3541, 3620 & 8081 GC/ECD Hexachlorobladiene ORG-91-5112 EPA SW-946 3541, 3620 & 8081 GC/ECD Molture Content CRG-91-5116 EPA SW-846 3541 & 8270D GC/MS Acenaphthylene ORG-91-5116 EPA SW-846 3541 & 8270D GC/MS Fluoranthene ORG-91-5106 EPA SW-846 3541 & 8270D GC/MS Fluoranthene ORG-91-5106 EPA SW-846 3541 & 8270D GC/MS <td< td=""><td>Heptachlor</td><td>ORG-91-5113</td><td>EPA SW-846 3541,3620 & 8081</td><td>GC/ECD</td></td<>	Heptachlor	ORG-91-5113	EPA SW-846 3541,3620 & 8081	GC/ECD					
Heptachior Epocide ORG-91-5113 EPA SW-846 3541.3820 & 8081 GC/ECD Endosulfan ORG-91-5113 EPA SW-846 3541.3820 & 8081 GC/ECD DDE ORG-91-5113 EPA SW-846 3541.3820 & 8081 GC/ECD DD ORG-91-5113 EPA SW-846 3541.3820 & 8081 GC/ECD DDT ORG-91-5113 EPA SW-846 3541.3820 & 8081 GC/ECD DDT ORG-91-5113 EPA SW-846 3541.3820 & 8081 GC/ECD Endrin ORG-91-5113 EPA SW-846 3541.3820 & 8081 GC/ECD Methoxyblor ORG-91-5113 EPA SW-846 3541.3820 & 8081 GC/ECD Hexachlorobenzene ORG-91-5113 EPA SW-846 3541.3820 & 8081 GC/ECD Hexachlorobenzene ORG-91-5113 EPA SW-846 3541.3820 & 8081 GC/ECD Methoxyblor ORG-91-5113 EPA SW-846 3541.38270D GC/MS Moisture Content MOE -91-5106 EPA SW486 3541 & 8270D GC/MS Naphthelene ORG-91-5106 EPA SW846 3541 & 8270D GC/MS Floorente ORG-91-5106 EPA SW846 3541 & 8270D GC/MS Flouranthene	Aldrin	ORG-91-5113	EPA SW-846 3541,3620 & 8081	GC/ECD					
Endosulfan 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 DDI ORG-91-5113 EPA SW-846 3541,3620 & 8081 GC/ECD Dialdrin ORG-91-5113 EPA SW-846 3541,3620 & 8081 GC/ECD Dialdrin ORG-91-5113 EPA SW-846 3541,3620 & 8081 GC/ECD Methoxychior ORG-91-5113 EPA SW-846 3541,3620 & 8081 GC/ECD Hexachlorobenzene ORG-91-5113 EPA SW-846 3541,3620 & 8081 GC/ECD Hexachlorobenzene ORG-91-5113 EPA SW-846 3541,3620 & 8081 GC/ECD Decachlorobiphenyl ORG-91-5113 EPA SW-846 3541, 3620 & 8081 GC/ECD Moisture Content Mol SW-846 3541 & 82700 GC/MS Acenaphthylene ORG-91-5106 EPA SW486 3541 & 82700 GC/MS Fluoranthene ORG-91-5106 EPA SW486 3541 & 82700 GC/MS Fluoranthene ORG-91-5106 EPA SW486 3541 & 82700 GC/MS Fluoranthynee	Heptachlor Epoxide	ORG-91-5113	EPA SW-846 3541,3620 & 8081	GC/ECD					
Chiodane 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 Endin ORG-91-5113 EPA SW-846 3541,3620 & 8081 GC/ECD Harachlorobarzane ORG-91-5113 EPA SW-846 3541,3620 & 8081 GC/ECD Hexachlorobarzane ORG-91-5113 EPA SW-846 3541,3620 & 8081 GC/ECD Methoxychlor ORG-91-5113 EPA SW-846 3541,3620 & 8081 GC/ECD Methoxychlor ORG-91-5113 EPA SW-846 3541,3620 & 8081 GC/ECD Molasture Content MC G-91-5106 EPA SW-846 3541 & 8270D GC/MS Acanaphthylane ORG-91-5106 EPA SW-846 3541 & 8270D GC/MS Acanaphthylane ORG-91-5106 EPA SW-846 3541 & 8270D GC/MS Fluoranthene ORG-91-5106 EPA SW-846 3541 & 8270D GC/MS Pyrene ORG-91-5106 EPA SW-846 3541 & 8270D GC/MS Barzo(b)luoran	Endosulfan	ORG-91-5113	EPA SW-846 3541,3620 & 8081	GC/ECD					
DDE ORG-91-5113 EPA SW-848 3541,3202 & 8081 GC/ECD DDD ORG-91-5113 EPA SW-846 3541,3620 & 8081 GC/ECD Deldrin 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 Hexachlorobutzdiene ORG-91-5113 EPA SW-846 3541,3620 & 8081 GC/ECD Hexachlorobutzdiene ORG-91-5113 EPA SW-846 3541,3620 & 8081 GC/ECD Decachlorobphenyl ORG-91-5112 EPA SW-846 3541,3620 & 8081 GC/ECD Molture Content MOE E3139 BALANCE Naphthalene ORG-91-5106 EPA SW486 3541 & 8270D GC/MS Acenaphthylene ORG-91-5106 EPA SW486 3541 & 8270D GC/MS Fluorene ORG-91-5106 EPA SW486 3541 & 8270D GC/MS Fluoranthene ORG-91-5106 EPA SW486 3541 & 8270D GC/MS Fluoranthene ORG-91-5106 EPA SW486 3541 & 8270D GC/MS Benzo(b/Ij/Ucranthene ORG-91-5106<	Chlordane	ORG-91-5113	EPA SW-846 3541,3620 & 8081	GC/ECD					
DDD ORG-91-5113 EPA SW-843 5341,3820 & 8081 GC/ECD Deldrin ORG-91-5113 EPA SW-846 3341,3820 & 8081 GC/ECD Dieldrin ORG-91-5113 EPA SW-846 3341,3820 & 8081 GC/ECD Methoxychlor ORG-91-5113 EPA SW-846 3341,3820 & 8081 GC/ECD Hexachloroburadiene ORG-91-5113 EPA SW-846 3341,3820 & 8081 GC/ECD Hexachloroburadiene ORG-91-5112 EPA SW-846 3341,3820 & 8081 GC/ECD Decachloroburadiene ORG-91-5113 EPA SW-846 3341,3820 & 8081 GC/ECD Decachloroburadiene ORG-91-5106 EPA SW-846 3341 & 8270D GC/MS Acenaphthylene ORG-91-5106 EPA SW846 3541 & 8270D GC/MS Acenaphthylene ORG-91-5106 EPA SW846 3541 & 8270D GC/MS Fluorene ORG-91-5106 EPA SW846 3541 & 8270D GC/MS Fluoranthene ORG-91-5106 EPA SW846 3541 & 8270D GC/MS Fluoranthene ORG-91-5106 EPA SW846 3541 & 8270D GC/MS Benzo(b)luoranthene ORG-91-5106 EPA SW846 3541 & 8270D GC/MS	DDE	ORG-91-5113	EPA SW-846 3541,3620 & 8081	GC/ECD					
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Methosychlor 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-91-5113 EPA SW-846 3541,3620 & 8081 GC/ECD Decachlorobiphenyl ORG-91-5112 EPA SW-846 3541,3620 & 8081 GC/ECD Moisture Content MOE E3139 BALANCE Naphthalene ORG-91-5106 EPA SW-846 3541 & 8270D GC/MS Acenaphthylene ORG-91-5106 EPA SW484 3541 & 8270D GC/MS Acenaphthylene ORG-91-5106 EPA SW484 3541 & 8270D GC/MS Fluorene ORG-91-5106 EPA SW484 3541 & 8270D GC/MS Fluoranthene ORG-91-5106 EPA SW484 3541 & 8270D GC/MS Fluoranthene ORG-91-5106 EPA SW484 3541 & 8270D GC/MS Pyrene ORG-91-5106 EPA SW484 3541 & 8270D GC/MS Benz(a)privene ORG-91-5106 EPA SW484 3541 & 8270D GC/MS Benz(a)privene ORG-91-5106 EPA SW484 3541 & 8270D GC/MS Benz(a)privene ORG-91-5106 <	Endrin	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 Decachlorobiphenyl ORG-91-5112 EPA SW-846 3541,3620 & 8081 GC/ECD Moisture Content MOE E3139 BALANCE Maphthalene ORG-91-5106 EPA SW-846 3541 & 82700 GC/MS Acenaphthylene ORG-91-5106 EPA SW-846 3541 & 82700 GC/MS Acenaphthylene ORG-91-5106 EPA SW-846 3541 & 82700 GC/MS Fluorene ORG-91-5106 EPA SW-846 3541 & 82700 GC/MS Fluorene ORG-91-5106 EPA SW-846 3541 & 82700 GC/MS Fluoranthene ORG-91-5106 EPA SW-846 3541 & 82700 GC/MS Fluoranthene ORG-91-5106 EPA SW-846 3541 & 82700 GC/MS Benz(a)anthracene ORG-91-5106 EPA SW-846 3541 & 82700 GC/MS Benz(a)anthracene ORG-91-5106 EPA SW-846 3541 & 82700 GC/MS Benzo(k)fluoranthene ORG-91-5106 EPA SW-846 3541 & 82700 GC/MS Benzo(k)fluoranthene	Methoxychlor	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 3541,320 & 8081 GC/ECD Moisture Content MOE E3139 BALANCE Naphthalene ORG-91-5106 EPA SW-846 3541 & 8270D GC/MS Acenaphthylene ORG-91-5106 EPA SW846 3541 & 8270D GC/MS Heurene 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 Fluoranthene ORG-91-5106 EPA SW846 3541 & 8270D GC/MS Pyrene ORG-91-5106 EPA SW846 3541 & 8270D GC/MS Benz(a)pintracene ORG-91-5106 <	Hexachlorobenzene	ORG-91-5113	EPA SW-846 3541,3620 & 8081	GC/ECD					
TCMX ORG-91-5112 EPA SW-846 3541,3620 & 8081 GC/ECD Decachlorobiphnyl ORG-91-5113 EPA SW-846 3541,3620 & 8081 GC/ECD Naphthalene ORG-91-5106 EPA SW846 3541 & 8270D GC/MS Acenaphthylene ORG-91-5106 EPA SW846 3541 & 8270D GC/MS Acenaphthylene 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 Phenanthrene ORG-91-5106 EPA SW846 3541 & 8270D GC/MS Fluoranthene ORG-91-5106 EPA SW846 3541 & 8270D GC/MS Benz(a)anthracene ORG-91-5106 EPA SW846 3541 & 8270D GC/MS Chysene ORG-91-5106 EPA SW846 3541 & 8270D GC/MS Benzo(k)fluoranthene ORG-91-5106 EPA SW846 3541 & 8270D GC/MS Benzo(k)fluoranthene ORG-91-5106 EPA SW846 3541 & 8270D GC/MS Benzo(k)fluoranthene ORG-91-5106 EPA SW846 3541 & 8270D GC/MS Benzo(k)fluoranth	Hexachlorobutadiene	ORG-91-5113	EPA SW-846 3541,3620 & 8081	GC/ECD					
Decachiorobiphenyl ORG-91-5113 EPA SW-846 3541,820 & 8081 GC/ECD Moisture Content MOE E3139 BALANCE Maphthalene ORG-91-5106 EPA SW846 3541 & 82700 GC/MS Acenaphthylene ORG-91-5106 EPA SW846 3541 & 82700 GC/MS Acenaphthene ORG-91-5106 EPA SW846 3541 & 82700 GC/MS Fluorene ORG-91-5106 EPA SW846 3541 & 82700 GC/MS Phenanthrene ORG-91-5106 EPA SW846 3541 & 82700 GC/MS Fluoranthene ORG-91-5106 EPA SW846 3541 & 82700 GC/MS Pyrene ORG-91-5106 EPA SW846 3541 & 82700 GC/MS Benz(a)pinthracene ORG-91-5106 EPA SW846 3541 & 82700 GC/MS Benz(a)pinthracene ORG-91-5106 EPA SW846 3541 & 82700 GC/MS Benz(a)pintracene ORG-91-5106 EPA SW846 3541 & 82700 GC/MS Benz(a)pinyrene ORG-91-5106 EPA SW846 3541 & 82700 GC/MS Benz(a)pinyrene ORG-91-5106 EPA SW846 3541 & 82700 GC/MS Indeno(1,2,3-cd)pyrene ORG-91-5106	тсмх	ORG-91-5112	EPA SW-846 3541,3620 & 8081	GC/ECD					
Moisture Content MOE E3139 BALANCE Naphthalene ORG-91-5106 EPA SW846 3541 & 8270D GC/MS Acenaphtylene ORG-91-5106 EPA SW846 3541 & 8270D GC/MS Acenaphtylene 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 Benz(a)anthracene ORG-91-5106 EPA SW846 3541 & 8270D GC/MS Benz(a)plituranthene ORG-91-5106 EPA SW846 3541 & 8270D GC/MS Benzo(b)fluoranthene ORG-91-5106 EPA SW846 3541 & 8270D GC/MS Benzo(b)fluoranthracene ORG-	Decachlorobiphenyl	ORG-91-5113	EPA SW-846 3541,3620 & 8081	GC/ECD					
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 Benz(a)anthracene ORG-91-5106 EPA SW846 3541 & 8270D GC/MS Chrysene ORG-91-5106 EPA SW846 3541 & 8270D GC/MS Benz(a)printe ORG-91-5106 EPA SW846 3541 & 8270D GC/MS Benzo(b)fluoranthene ORG-91-5106 EPA SW846 3541 & 8270D GC/MS Benzo(k)fluoranthene	Moisture Content		MOE E3139	BALANCE					
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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(b)fluoranthene ORG-91-5106 EPA SW846 3541 & 8270D GC/MS Benzo(b)fluoranthene ORG-91-5106 EPA SW846 3541 & 8270D GC/MS Benzo(a)pyrene ORG-91-5106 EPA SW846 3541 & 8270D GC/MS Indenc(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 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 F2 (C10 to C16) VOL-91-5009 CCME Tier 1 Method GC/FID	Phenanthrene	ORG-91-5106	EPA SW846 3541 & 8270D	GC/MS					
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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 2-and 1-methyl Naphthalene 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 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 Gravimetric Heavy Hydrocarbons VOL-91-5009 CCME Tier 1 Method	Pyrene	ORG-91-5106	EPA SW846 3541 & 8270D	GC/MS					
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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 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-91-5009 CCME Tier 1 Method BALANCE Vinyl Chloride VOL-91-5002 EPA SW-846 5035 & 8260D (P&T)GC/MS<	Indeno(1,2,3-cd)pyrene	ORG-91-5106	EPA SW846 3541 & 8270D	GC/MS					
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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 GC/FID Moisture Content VOL-91-5009 CCME Tier 1 Method GC/FID Moisture Content VOL-91-5009 CCME Tier 1 Method BALANCE Terphenyl VOL-91-5009 CCME Tier 1 Method BALANCE 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 <	Benzo(a.h.i)pervlene	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 BALANCE Dichlorodifluoromethane VOL-91-5009 CCME Tier 1 Method BALANCE 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	2-and 1-methyl Naphthalene	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 BALANCE Dichlorodifluoromethane VOL-91-5009 CCME Tier 1 Method BALANCE Vinyl Chloride VOL-91-5009 CCME Tier 1 Method BALANCE Vinyl Chloride 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 EP	Chrysene-d12	ORG-91-5106	EPA SW846 3541 & 8270D	GC/MS					
F1 (C6 to C10) minus BTEXVOL-91-5009CCME Tier 1 Method, SW846 5035P&T GC/FIDF2 (C10 to C16)VOL-91-5009CCME Tier 1 MethodGC/FIDF3 (C16 to C34)VOL-91-5009CCME Tier 1 MethodGC/FIDF4 (C34 to C50)VOL-91-5009CCME Tier 1 MethodGC/FIDGravimetric Heavy HydrocarbonsVOL-91-5009CCME Tier 1 MethodBALANCEMoisture ContentVOL-91-5009CCME Tier 1 MethodBALANCETerphenylVOL-91-5009CCME Tier 1 MethodGC/FIDDichlorodifluoromethaneVOL-91-5009CCME Tier 1 MethodGC/FIDVinyl ChlorideVOL-91-5002EPA SW-846 5035 & 8260D(P&T)GC/MSBromomethaneVOL-91-5002EPA SW-846 5035 & 8260D(P&T)GC/MSTrichlorofluoromethaneVOL-91-5002EPA SW-846 5035 & 8260D(P&T)GC/MSTrichlorofluoromethaneVOL-91-5002EPA SW-846 5035 & 8260D(P&T)GC/MSAcetoneVOL-91-5002EPA SW-846 5035 & 8260D(P&T)GC/MS	F1 (C6 to C10)	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 BALANCE Dichlorodifluoromethane VOL-91-5009 CCME Tier 1 Method GC/FID 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	F1 (C6 to C10) minus BTEX	VOL-91-5009	CCME Tier 1 Method, SW846 5035	P&T GC/FID					
F3 (C16 to C34)VOL-91-5009CCME Tier 1 MethodGC/FIDF4 (C34 to C50)VOL-91-5009CCME Tier 1 MethodGC/FIDGravimetric Heavy HydrocarbonsVOL-91-5009CCME Tier 1 MethodBALANCEMoisture ContentVOL-91-5009CCME Tier 1 MethodBALANCETerphenylVOL-91-5009CCME Tier 1 MethodGC/FIDDichlorodifluoromethaneVOL-91-5002EPA SW-846 5035 & 8260D(P&T)GC/MSVinyl ChlorideVOL-91-5002EPA SW-846 5035 & 8260D(P&T)GC/MSBromomethaneVOL-91-5002EPA SW-846 5035 & 8260D(P&T)GC/MSTrichlorofluoromethaneVOL-91-5002EPA SW-846 5035 & 8260D(P&T)GC/MSAcetoneVOL-91-5002EPA SW-846 5035 & 8260D(P&T)GC/MS	F2 (C10 to C16)	VOL-91-5009	CCME Tier 1 Method	GC/FID					
F4 (C34 to C50)VOL-91-5009CCME Tier 1 MethodGC/FIDGravimetric Heavy HydrocarbonsVOL-91-5009CCME Tier 1 MethodBALANCEMoisture ContentVOL-91-5009CCME Tier 1 MethodBALANCETerphenylVOL-91-5009CCME Tier 1 MethodGC/FIDDichlorodifluoromethaneVOL-91-5002EPA SW-846 5035 & 8260D(P&T)GC/MSVinyl ChlorideVOL-91-5002EPA SW-846 5035 & 8260D(P&T)GC/MSBromomethaneVOL-91-5002EPA SW-846 5035 & 8260D(P&T)GC/MSTrichlorofluoromethaneVOL-91-5002EPA SW-846 5035 & 8260D(P&T)GC/MSAcetoneVOL-91-5002EPA SW-846 5035 & 8260D(P&T)GC/MS	F3 (C16 to C34)	VOL-91-5009	CCME Tier 1 Method	GC/FID					
Gravimetric Heavy HydrocarbonsVOL-91-5009CCME Tier 1 MethodBALANCEMoisture ContentVOL-91-5009CCME Tier 1 MethodBALANCETerphenylVOL-91-5009CCME Tier 1 MethodGC/FIDDichlorodifluoromethaneVOL-91-5002EPA SW-846 5035 & 8260D(P&T)GC/MSVinyl ChlorideVOL-91-5002EPA SW-846 5035 & 8260D(P&T)GC/MSBromomethaneVOL-91-5002EPA SW-846 5035 & 8260D(P&T)GC/MSTrichlorofluoromethaneVOL-91-5002EPA SW-846 5035 & 8260D(P&T)GC/MSAcetoneVOL-91-5002EPA SW-846 5035 & 8260D(P&T)GC/MS	F4 (C34 to C50)	VOL-91-5009	CCME Tier 1 Method	GC/FID					
Moisture ContentVOL-91-5009CCME Tier 1 MethodBALANCETerphenylVOL-91-5009CCME Tier 1 MethodGC/FIDDichlorodifluoromethaneVOL-91-5002EPA SW-846 5035 & 8260D(P&T)GC/MSVinyl ChlorideVOL-91-5002EPA SW-846 5035 & 8260D(P&T)GC/MSBromomethaneVOL-91-5002EPA SW-846 5035 & 8260D(P&T)GC/MSTrichlorofluoromethaneVOL-91-5002EPA SW-846 5035 & 8260D(P&T)GC/MSTrichlorofluoromethaneVOL-91-5002EPA SW-846 5035 & 8260D(P&T)GC/MSAcetoneVOL-91-5002EPA SW-846 5035 & 8260D(P&T)GC/MS	Gravimetric Heavy Hydrocarbons	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	Moisture Content	VOL-91-5009	CCME Tier 1 Method	BALANCE					
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	Terphenyl	VOL-91-5009	CCME Tier 1 Method	GC/FID					
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	Dichlorodifluoromethane	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	Vinvl Chloride	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	Bromomethane	VOL-91-5002	EPA SW-846 5035 & 8260D	(P&T)GC/MS					
Acetone VOL-91-5002 FPA 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 2 ESA

SAMPLING SITE:

AGAT WORK ORDER: 19T483045 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
1,1,2,2-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- Frichlorophenol	ORG-91-5114	EPA SW846 3510C & 8270	GC/MS
2,4-Dinitrotoluene	OKG-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

PROJECT: City of Brampton Phase 2 ESA

SAMPLING SITE:

AGAT WORK ORDER: 19T483045 ATTENTION TO: Robert Mitzakov SAMPLED BY:

Gran Ente on E.		SAME LED DT:					
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				
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				
PCBs	ORG-91-5113	EPA SW-846 3541 & 8082	GC/ECD				
Decachlorobiphenyl	ORG-91-5113	EPA SW-846 3541 & 8082	GC/ECD				

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Chain of Custody Reco	ord If this is	a Drinking Wate	er sample, p	lease use	Drinking Water Chain of Custody Form	potable v	water consume	ed by human	s)		Arrival	Temp	eratu	res:	-	46	1	39	4	<u></u>
Report Information: Company: SNC - Lavalin Inc. Contact: Robert Mitzakov Address: 195 The West Mall Toronto, DN M9C SKI Phone: Fax: Reports to be sent to: 1. Email: 1. Email: robert.mitzakov@shclavalin.com 2. Email: abcd, yassine @shclavalin.com Project Information: Project: City of Brampton - Phase II ESA Site Location: 10192 Hwy So, Brampton, on Sampled By: Ariel Barre-Freetry - PN: 665125					Regulatory Requirements: No Regulatory Requirement (Please check all applicable boxes) Regulation 153/04 Sewer Use Table Sewer Use Indicate Cine Sanitary Indicate Cine Sanitary Indicate Cine Storm Agriculture Storm Soil Texture (Check One) Indicate One Indicate One Indicate One							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 2 Business Days Days Days							JN/A	
					□Fine □MISA Is this submission for a Record of Site Condition? □ Yes □ No		Report Certifica	Indicate GuidelIn te of An	e on alysis No		For	OR D Pl *TAT i Same	Date F ease s excl bay '	Require provia lusive analy	ed (Ru: de prio. of wee /sis, pl	sh Sun r notifi ekends ease c	charge Ication and st	is May A for rus tatutory t your A	npply): h TAT holiday	s Mi
AGAT Quote #: Please note: If quotation num Invoice Information: Company: Contact: Address: Email:	PO: ber is not provided, client v	will be billed full price f	or 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	and Inorganics als 1133 Metals (excl. Hydrides) Metals 1153 Metals (incl. Hydrides)	DBHWS CICI CICN DEC CIFOC CIHg SAR	als Scan ion/Custom Metals	S: DTP DNH, DTKN DNO2 DNO3+NO2 DVOC DETEY DTHM	L-F4 VOC'S			Total Daroclors	chlorine Pesticides M&I □ VOCs □ ABNs □ B(a)P □PCB	es	153 metals t	ride pesticide	Inorganics + Bulk PCB	y Hazardous or High Concentration (Y/N)
Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Y/N	Metals	ORPs: OCr ⁶ . [D PH]	Full Me Regulat		PHCs F	ABNs	PAHs	PCBs:	Organo TCLP: []	Sewer L	b. Peg	Tere	TELP	Potential
BH33-2 BH33-22 BH33-3 BH33-7 BH33-77 COMP-1	DE/19/19	9pm 9AM 9:15am 9:50am 9:50am 2PM	1 2 4 4	Soi 1							<i>✓ ✓</i>			8			V ,			
																		9-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1		
Samples Relinquished By (Print Name and Sign): And Burr-Keating Samples Relinquished By (Print Name and Sign): Samples Relinquished By (Print Name and Sign):	/ ABK	Date	9/19 Dor Dor	e e	Samples Received By (Print Name and Sign): Samples Received By (Print Name and Sign): Samples Received By (Print Name and Sign):	7-		Piptr				Time S	34	3	Nº:	Page	• 09	of0	354	



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.

 AGAT Laboratories (V1)
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Results relate only to the items tested. Results apply to samples as received. All reportable information as specified by ISO 17025:2017 is available from AGAT Laboratories upon request



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.aqatlabs.com

CLIENT NAME: SNC LAVALIN INC

SAMPLING SITE:

ATTENTION TO: Robert Mitzakov

SAMPLED BY:

O. Reg. 153(511) - Metals & Inorganics (Soil)

DATE RECEIVED: 2019-06-21						DATE REPORTED: 2019-06-27
	S	SAMPLE DES	CRIPTION:	BH72-1	BH73-02	
		SAME	PLE TYPE:	Soil	Soil	
		DATE S	SAMPLED:	2019-06-20	2019-06-20	
Parameter	Unit	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	





AGAT WORK ORDER: 19T483131 PROJECT: City Of Brampton Phase 2 ESA

CLIENT NAME: SNC LAVALIN INC

SAMPLING SITE:

ATTENTION TO: Robert Mitzakov

SAMPLED BY:

O. Reg. 153(511) - Metals & Inorganics (Soil)

DATE REPORTED: 2019-06-27

5835 COOPERS AVENUE

MISSISSAUGA, ONTARIO

http://www.agatlabs.com

CANADA L4Z 1Y2

TEL (905)712-5100 FAX (905)712-5122

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 *)




AGAT WORK ORDER: 19T483131 PROJECT: City Of Brampton Phase 2 ESA

CLIENT NAME: SNC LAVALIN INC

SAMPLING SITE:

ATTENTION TO: Robert Mitzakov

DATE REPORTED: 2019-06-27

SAMPLED BY:

O. Reg. 153(511) - OC Pesticides (Soil)

DATE RECEIVED: 2019-06-21

	S	AMPLE DESCRIPTI	ON: BH72-2
		SAMPLE TY	PE: Soil
		DATE SAMPL	ED: 2019-06-20
Parameter	Unit	G/S RDI	294298
Hexachloroethane	µg/g	0.01 0.0 ⁻	1 <0.01
Gamma-Hexachlorocyclohexane	µg/g	0.01 0.00	5 <0.005
Heptachlor	µg/g	0.05 0.00	5 <0.005
Aldrin	µg/g	0.05 0.00	5 <0.005
Heptachlor Epoxide	µg/g	0.05 0.00	5 <0.005
Endosulfan	µg/g	0.04 0.00	5 <0.005
Chlordane	µg/g	0.05 0.00	7 <0.007
DDE	µg/g	0.05 0.00	7 <0.007
DDD	µg/g	0.05 0.00	7 <0.007
DDT	µg/g	1.4 0.00	7 <0.007
Dieldrin	µg/g	0.05 0.00	5 <0.005
Endrin	µg/g	0.04 0.00	5 <0.005
Methoxychlor	µg/g	0.05 0.00	5 <0.005
Hexachlorobenzene	µg/g	0.02 0.00	5 <0.005
Hexachlorobutadiene	µg/g	0.01 0.0	1 <0.01
Moisture Content	%	0.1	20.1
Surrogate	Unit	Acceptable Limi	ts
ТСМХ	%	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:

5835 COOPERS AVENUE

MISSISSAUGA, ONTARIO

http://www.agatlabs.com

CANADA L4Z 1Y2

TEL (905)712-5100 FAX (905)712-5122



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.aqatlabs.com

CLIENT NAME: SNC LAVALIN INC

SAMPLING SITE:

ATTENTION TO: Robert Mitzakov

SAMPLED BY:

				0.100	9.100(011)	
DATE RECEIVED: 2019-06-21						DATE REPORTED: 2019-06-27
		SAMPLE DESCRI	IPTION:	BH72-3	BH73-02	
		SAMPLE	TYPE:	Soil	Soil	
		DATE SAM	MPLED:	2019-06-20	2019-06-20	
Parameter	Unit	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 L	imits			
Chrysene-d12	%	50-140		71	79	
Comments: RDL - Reported De	tection Limit	G / S - Guideline	/ Standard	· Refers to Tab	le 9: Generic Site Cor	dition Standards for Use within 30 m of a Water Body in a Non-Potable Ground Water Condition - Soil -

O Reg. 153(511) - PAHs (Soil)

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 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:



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.aqatlabs.com

CLIENT NAME: SNC LAVALIN INC

SAMPLING SITE:

ATTENTION TO: Robert Mitzakov

SAMPLED BY:

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

DATE RECEIV	ED: 2019-06-21						DATE REPORTED: 2019-06-27
		5	SAMPLE DES	CRIPTION:	BH72-8	BH73-07	
			SAM	PLE TYPE:	Soil	Soil	
			DATE	SAMPLED:	2019-06-20	2019-06-20	
Para	ameter	Unit	G/S	RDL	294301	294305	
F1 (C6 to C10)		µg/g		5	<5	<5	
F1 (C6 to C10) m	inus 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 Heav	y Hydrocarbons	µg/g	120	50	NA	NA	
Moisture Content		%		0.1	9.0	7.9	
Sur	rogate	Unit	Acceptat	ole Limits			
Terphenyl		%	60-	140	71	60	
Comments:	RDL - Reported De Residential/Parklar Guideline values a	etection Limit; nd/Institutional/I re for general re	G / S - Guide ndustrial/Com eference only.	line / Standa mercial/Com The guideline	rd: Refers to Tab munity Property I es provided may	le 9: Generic Site Co Jse or may not be releva	ondition Standards for Use within 30 m of a Water Body in a Non-Potable Ground Water Condition - Soil - Int for the intended use. Refer directly to the applicable standard for regulatory interpretation.
294301-294305	Results are based The C6-C10 fractio C6-C10 (F1 minus The C10 - C16, C1 Gravimetric Heavy The chromatogram Total C6 - C50 ress This method compl nC6 and nC10 resp nC10, nC16 and nC C50 response facto Linearity is within 1 Extraction and holo Fractions 1.4 are of	on sample dry v n is calculated BTEX) is a call 6 - C34, and C Hydrocarbons has returned to alts are correctle iss with the Rei conse factors and C34 response fa for is within 70% 5%. ling times were upartified withou	weight. using toluene culated param 34 - C50 fracti are not include o baseline by t ed for BTEX cc ference Methor re within 30% actors are with o fnC10 + nC met for this sa ut the contribut	response fac eter. The cal ons are calcu- ed in the Tota the retention partibution. In the CW of Toluene re in 10% of the 16 + nC34 are ample.	tor. culated value is F lated using the a I C16-C50 and a time of nC50. S PHC and is va sponse factor. ir average. verage.	T1 minus BTEX. verage response far re only determined i lidated for use in the	tor for n-C10, n-C16, and n-C34. the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present. laboratory.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:



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.aqatlabs.com

CLIENT NAME: SNC LAVALIN INC

SAMPLING SITE:

ATTENTION TO: Robert Mitzakov

SAMPLED BY:

					3 (-)	()
DATE RECEIVED: 2019-06-21						DATE REPORTED: 2019-06-27
	S	AMPLE DES	CRIPTION:	BH72-8	BH73-07	
		SAM	PLE TYPE:	Soil	Soil	
		DATES	SAMPLED:	2019-06-20	2019-06-20	
Parameter	Unit	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	

O. Reg. 153(511) - VOCs (Soil)

Certified By:



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.aqatlabs.com

CLIENT NAME: SNC LAVALIN INC

SAMPLING SITE:

ATTENTION TO: Robert Mitzakov

SAMPLED BY:

					J ()	
DATE RECEIVED: 2019-06-21						DATE REPORTED: 2019-06-27
	S	AMPLE DES	CRIPTION:	BH72-8	BH73-07	
		SAM	PLE TYPE:	Soil	Soil	
		DATES	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	Acceptab	le Limits			
Toluene-d8	% Recovery	50-1	140	109	108	
4-Bromofluorobenzene	% Recovery	50-1	140	76	76	

O. Reg. 153(511) - VOCs (Soil)

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:



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

SAMPLING SITE:

ATTENTION TO: Robert Mitzakov

SAMPLED BY:

Phenoxy Acid Herbicides (Soil)										
DATE RECEIVED: 2019-06-21				DATE REPORTED: 2019-06-27						
		SAMPLE DESCRIP	TION: BH72-2							
		SAMPLE	TYPE: Soil							
		DATE SAM	PLED: 2019-06-2	0						
Parameter	Unit	G/S R	DL 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							
MCPP (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 Li	mits							
DCAA	%	50-130	80							

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 -Comments: 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:

	AGAT	Laboratorie	AGAT WORK ORDER: 19T483 PROJECT: City Of Brampton	Guideline Violation AGAT WORK ORDER: 19T483131 PROJECT: City Of Brampton Phase 2 ESA						
CLIENT NAM	E: SNC LAVALIN INC			ATTENTION TO: Rober	t Mitzakov	mp./	www.agaliabs.com			
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

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CLIENT NAME: SNC LAVALIN INC

PROJECT: City Of Brampton Phase 2 ESA

SAMPLING SITE:

AGAT WORK ORDER: 19T483131

ATTENTION TO: Robert Mitzakov

SAMPLED BY:

				Soi	l Ana	alysis	5								
RPT Date: Jun 27, 2019			C	UPLICATI	E		REFERE	NCE MA	TERIAL	METHOD	BLANK	SPIKE	MAT	RIX SPI	KE
PARAMETER	Batch	Sample	Dup #1	Dup #2	RPD	Method Blank	Measured	Acce Lir	ptable nits	Recovery	Acce Lir	ptable nits	Recovery	Acce Lin	ptable nits
							value	Lower Upper		Lower	Upper		Lower	Upper	
O. Reg. 153(511) - Metals & Inorga	anics (Soi	I)													
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:



AGAT QUALITY ASSURANCE REPORT (V1)

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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:

			Trac	e Or	ganio	cs Ar	nalys	is							
RPT Date: Jun 27, 2019			C	UPLICAT	E		REFERE	NCE MA	TERIAL	METHOD	BLANK	SPIKE	MAT	RIX SPI	IKE
PARAMETER	Batch	Sample	Dup #1	Dup #2	RPD	Method Blank	Measured	Acce Lir	eptable nits	Recoverv	Acce Lir	eptable nits	Recoverv	Acce Lir	ptable nits
		Ia					value	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%

AGAT QUALITY ASSURANCE REPORT (V1)

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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)

		5	5			`			/						
RPT Date: Jun 27, 2019			DUPLICATE				REFERENC		TERIAL	METHOD BLANK SPIKE			MAT	TRIX SP	IKE
PARAMETER	Batch	Sample	Dup #1	Dup #2	RPD	Method Blank	Measured	Acce Lii	eptable mits	Recovery	Acce Lir	eptable mits	Recovery	Acce	eptable mits
							value	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) (So	oil)													
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%

AGAT QUALITY ASSURANCE REPORT (V1)

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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				REFEREN	NCE MATERIAL		L METHOD BLANK SPIK			MATRIX SPIKE		
PARAMETER	Batch	Sample	Dup #1	Dup #2	RPD	Method Blank	Measured	Acce Lir	Acceptable Limits		Acce Lir	eptable nits	Recovery	Acce Lir	ptable nits
		iu iu					value	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:

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AGAT QUALITY ASSURANCE REPORT (V1)



Method Summary

CLIENT NAME: SNC LAVALIN INC

PROJECT: City Of Brampton Phase 2 ESA

AGAT WORK ORDER: 19T483131 ATTENTION TO: Robert Mitzakov

SAMPLING SITE:		SAMPLED BY:							
PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE						
Soil Analysis		1	1						
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-84 6010C	⁶ 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 2 ESA

AGAT WORK ORDER: 19T483131 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
тсмх	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

PROJECT: City Of Brampton Phase 2 ESA

SAMPLING SITE:

AGAT WORK ORDER: 19T483131 ATTENTION TO: Robert Mitzakov SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Acetone	VOI -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
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



Method Summary

CLIENT NAME: SNC LAVALIN INC

PROJECT: City Of Brampton Phase 2 ESA

AGAT WORK ORDER: 19T483131

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

AGAT Laborate	ories	5835 Coopers Avenue Mississauga, Ontario L4Z 1Y2 Ph: 905.712.5100 Fax: 905.712.5122 webearth.agatlabs.com	Laboratory Use Only Work Order #: 197483131 Cooler Quantity:			
Chain of Custody Record If this is a Drinking Water sample, please u	use Drinking Water Chain of Custody Form	(potable water consumed by humans)	Arrival Temperatures: 2.6 2.7 3-1.			
Report Information: Company: SNC -Lavalin B.Inc. Contact: 2 195 The West Mall, Toronto, ON	Regulatory Requirements: (Please check all applicable boxes) Regulation 153/04	No Regulatory Requirement er Use Regulation 558	Custody Seal Intact: Yes No N/A			
Address: <u>M9C 5K1</u> <u>Robert Mitzakou</u> Phone: <u>416-635-5882</u> Fax: ×55805	Table Indicate One Sa Indicate One Sa Ing/Com PRes/Park St Agriculture	nitary CCME	Turnaround Time (TAT) Required: Regular TAT Rush TAT (Rush Surcharges Apply)			
2. Email: abed yassine @ snclavalin com	Soil Texture (Check One) Coarse Fine Region	Collectives (PWQO)	3 Business 2 Business Next Business Days Days Day OR Date Required (Rush Surcharges May Apply):			
Project Information: Project: <u>City of Brampton - Phase TESA</u> Site Location: <u>10192 Huy 50</u> , Brampton, oN Sampled By: Ariel Barr - Keetin	Is this submission for a Record of Site Condition ? Yes INO	Report Guideline onCertificate of AnalysisYesNo	Please provide prior notification for rush TAT *TAT is exclusive of weekends and statutory holidays For 'Same Day' analysis, please contact your AGAT CPM			
AGAT Quote #: PO: ?? !!'. !obs 1/5 Please note: If quotation number is not provided, chem will be billed full price for analysis. Invoice Information: Bill To Same: Yes No Company:	Sample Matrix Legend B Biota GW Ground Water O Oil P Paint S Soil SD Sediment SW Surface Water	Field Filtered - Metals, Hg, CrVI and Inorganics as 123 metals (excl. hydrides) as 153 metals (excl. hydrides) as Metals 153 metals (incl. hydrides) B.HWS 10 1 0 CN 152 170 0 Hg SAR 101/Custan tals Scan and Dispension 101/Custan and 101/2010 101/2010 101/2010 101/2010 101/2010	a: Dvoc DBTEX THM 1. F4, V&C'S DTotal DAroclors chlorine Pesticides M&L Dvocs DABNS DB(a)P DPCBS M&L Dvocs DABNS DB(a)P DPCBS JSe . /S3 Wrcte(S+/h)rygarics . /S3 Wrcte(S+/h)rygarics . /S1 Method Sector S			
Sample Identification Date Time # of Sam Sampled Sampled Sampled Sampled Mate	nple Comments/ trix Special Instructions	A All Metals Metals All Metals All Metals All Metals Full Me Regula	Volatile Volatile PHCs F ABNS PAHS PCBS: [Organo Organo Organo PCCP: []			
BH 72-1 06/20/19 11:50 am 1 5 BH 72-2 11:55 am 1 1 BH 72-3 12:00, m 1 BH 72-8 1:05 pm 4	5					
BH73-02 2:30pm 2 BH73-07 3:15pm 3			× × ×			
Samples Relinquished By (Print Name and Sign): Aniel Barr-K-leatin ABK 06/20/19 71me Samples Relinquished By (Print Name and Sign): Ses get Frester Ses get Frester Ses get Frester Date 05/20/19 72 9 Time 2 9 Ses get Frester Ses get Fre	Samples Received By (Print Name and Sign): Samples Received By (Print Name and Sign): Samples Received By (Print Name and Sign):	Dune 21 19 Date	9:25am			
	Samples Received by (Print Name and Sign):	Diate	Vallau Copy ACAT White Copy ACAT Diversion (2016)			



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.

 AGAT Laboratories (V1)
 Page 1 of 18

 Member of: Association of Professional Engineers and Geoscientists of Alberta (APEGA)
 AGAT Laboratories is accredited to ISO/IEC 17025 by the Canadian Association for Laboratory

 Accreditation Inc. (CALA) and/or Standards Council of Canada (SCC) for specific citests listed on the scope of accreditation Inc. (CALA) and/or Standards Council of Canada (SCC) for specific tests listed on the scope of accreditation Inc. (CALA) and/or specific drivinking water tests. Accreditations are location and parameter specific. A complete listing of parameters for each location is available from www.cala.ca and/or www.scc.ca. The tests in this report may not necessarily be included in the scope of accreditation. Measurement Uncertainty is not taken into consideration when stating conformity with a specified requirement.

Results relate only to the items tested. Results apply to samples as received. All reportable information as specified by ISO 17025:2017 is available from AGAT Laboratories upon request



AGAT WORK ORDER: 19H484181 PROJECT: 665125 5835 COOPERS AVENUE MISSISSAUGA, ONTARIO CANADA L4Z 1Y2 TEL (905)712-5100 FAX (905)712-5122 http://www.aqatlabs.com

CLIENT NAME: SNC LAVALIN INC

SAMPLING SITE: 10182 Highway 50, Brampton ON, 10182 Highway 50, Brampton ON

ATTENTION TO: Robert Mitzakov SAMPLED BY:Brial Poole,Brian Poole

O. Reg. 153(511) - Metals & Inorganics (Soil)

				-		-				
DATE RECEIVED: 2019-06-25								[DATE REPORTE	D: 2019-07-03
		SAMPLE DESC	RIPTION:	SS1	SS2	SS3	SS4	SS5	SS6	
		SAMP	LE TYPE:	Soil	Soil	Soil	Soil	Soil	Soil	
		DATE S	AMPLED:	2019-06-24	2019-06-24	2019-06-24	2019-06-24	2019-06-24	2019-06-24	
Parameter	Unit	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	

Nivine Basily



AGAT WORK ORDER: 19H484181 PROJECT: 665125

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

5835 COOPERS AVENUE

MISSISSAUGA, ONTARIO

http://www.agatlabs.com

CANADA L4Z 1Y2

TEL (905)712-5100 FAX (905)712-5122

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:



AGAT WORK ORDER: 19H484181

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: 10182 Highway 50, Brampton ON, 10182 Highway 50, Brampton ON

ATTENTION TO: Robert Mitzakov SAMPLED BY:Brial Poole,Brian Poole

DATE REPORTED: 2019-07-03

O. Reg. 153(511) - OC Pesticides (Soil)

PROJECT: 665125

DATE RECEIVED: 2019-06-25

					BATE REPORTED. 2010 07 00
		SAMPLE DESCRIPTION	I: SS2	SS6	
		SAMPLE TYPE	: Soil	Soil	
		DATE SAMPLE): 2019-06-24	2019-06-24	
Parameter	Unit	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			
тсмх	%	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 *)

NPopukoloj

Certified By:



µg/g

µg/g

µg/g

ua/a

2.8

0.47

0 48

0.05

0.05

0.05

Certificate of Analysis

AGAT WORK ORDER: 19H484181

PROJECT: 665125

CLIENT NAME: SNC LAVALIN INC

Benz(a)anthracene

Benzo(b)fluoranthene

Benzo(k)fluoranthene

Chrysene

SAMPLING SITE: 10182 Highway 50, Brampton ON, 10182 Highway 50, Brampton ON

ATTENTION TO: Robert Mitzakov SAMPLED BY: Brial Poole. Brian Poole

O. Reg. 153(511) - PAHs (Soil) DATE RECEIVED: 2019-06-25 **DATE REPORTED: 2019-07-03** SAMPLE DESCRIPTION: SS2 SS6 SAMPLE TYPE: Soil Soil DATE SAMPLED: 2019-06-24 2019-06-24 RDL 302513 302561 Parameter Unit G/S Naphthalene 0.09 0.05 < 0.05 < 0.05 µg/g Acenaphthylene 0.093 0.05 < 0.05 < 0.05 µg/g Acenaphthene < 0.05 µg/g 0.072 0.05 < 0.05 Fluorene µg/g 0.19 0.05 < 0.05 < 0.05 Phenanthrene 0.69 0.05 < 0.05 < 0.05 µg/g 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 0.36 0.05 < 0.05 < 0.05

	70	00110			
Chrysene-d12	%	50-140	74	95	
Surrogate	Unit	Acceptable Lim	nits		
Moisture Content	%	0.	.1 9.5	10.5	
2-and 1-methyl Naphthalene	µg/g	0.59 0.0	05 <0.05	<0.05	
Benzo(g,h,i)perylene	µg/g	0.68 0.0	05 <0.05	<0.05	
Dibenz(a,h)anthracene	µg/g	0.1 0.0	05 <0.05	<0.05	
Indeno(1,2,3-cd)pyrene	µg/g	0.23 0.0	05 <0.05	<0.05	
Benzo(a)pyrene	µg/g	0.3 0.0	05 <0.05	<0.05	
	1.3.3				

Residential/Parkland/Institutional/Industrial/Commercial/Community Property Use

< 0.05

< 0.05

<0.05

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.

< 0.05

< 0.05

<0.05

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 *)

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Certified By:

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AGAT WORK ORDER: 19H484181

PROJECT: 665125

CLIENT NAME: SNC LAVALIN INC

SAMPLING SITE: 10182 Highway 50, Brampton ON, 10182 Highway 50, Brampton ON

ATTENTION TO: Robert Mitzakov SAMPLED BY:Brial Poole,Brian Poole

DATE REPORTED: 2019-07-03

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

DATE RECEIVED: 2019-06-25

		SAMPLE DESC	RIPTION:	SS1	SS3	SS5
		SAMP	LE TYPE:	Soil	Soil	Soil
		DATE S	AMPLED:	2019-06-24	2019-06-24	2019-06-24
Parameter	Unit	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	Acceptabl	e Limits			
Terphenyl	%	60-1	40	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 *)

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AGAT WORK ORDER: 19H484181

PROJECT: 665125

CLIENT NAME: SNC LAVALIN INC

SAMPLING SITE: 10182 Highway 50, Brampton ON, 10182 Highway 50, Brampton ON

ATTENTION TO: Robert Mitzakov 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 DES SAMI DATE S G / S	CRIPTION: PLE TYPE: SAMPLED: RDL	SS1 Soil 2019-06-24 302489	SS3 Soil 2019-06-24 302543	SS5 Soil 2019-06-24 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:

NPopukoloj

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% Recovery

Certificate of Analysis

AGAT WORK ORDER: 19H484181

PROJECT: 665125

O. Reg. 153(511) - VOCs (Soil)

CLIENT NAME: SNC LAVALIN INC

4-Bromofluorobenzene

SAMPLING SITE: 10182 Highway 50, Brampton ON, 10182 Highway 50, Brampton ON

ATTENTION TO: Robert Mitzakov SAMPLED BY:Brial Poole,Brian Poole

DATE RECEIVED: 2019-06-25							DATE REPORTED: 2019-07-03
	S	AMPLE DES	CRIPTION:	SS1	SS3	SS5	
		SAM	PLE TYPE:	Soil	Soil	Soil	
		DATES	SAMPLED:	2019-06-24	2019-06-24	2019-06-24	
Parameter	Unit	G/S	RDL	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	Acceptab	le Limits				
Toluene-d8	% Recoverv	50-1	140	106	105	103	

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 -Comments: Residential/Parkland/Institutional/Industrial/Commercial/Community Property Use

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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.

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 302489-302559 performed. Results are based on the dry weight of the soil.

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Xylenes total is a calculated parameter. The calculated value is the sum of m&p-Xylene + o-Xylene.

50-140

1,3-Dichloropropene total is a calculated parameter. The calculated value is the sum of Cis-1,3-Dichloropropene and Trans-1,3-Dichloropropene.

102

Analysis performed at AGAT Toronto (unless marked by *)

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AGAT WORK ORDER: 19H484181 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: 10182 Highway 50, Brampton ON, 10182 Highway 50, Brampton ON

ATTENTION TO: Robert Mitzakov

SAMPLED BY:Brial Poole,Brian Poole

			1 Hone		
DATE RECEIVED: 2019-06-25					DATE REPORTED: 2019-07-03
		SAMPLE DESCRIPTION:	SS2	SS6	
		SAMPLE TYPE:	Soil	Soil	
		DATE SAMPLED:	2019-06-24	2019-06-24	
Parameter	Unit	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	
MCPP (Mecoprop)	ug/g	1.0	<1.0	<1.0	
МСРА	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	

Phenoxy Acid Herbicides (Soil)

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

Analysis performed at AGAT Toronto (unless marked by *)

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Quality Assurance

CLIENT NAME: SNC LAVALIN INC

PROJECT: 665125

AGAT WORK ORDER: 19H484181

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				REFEREN	NCE MA	TERIAL	METHOD	BLANK	SPIKE	MAT	RIX SPI	KE
PARAMETER	Batch	Sample	Dup #1	Dup #2	RPD	Method Blank	Measured	Acce Lir	ptable nits	Recovery	Acce Lin	ptable nits	Recovery	Acce Lin	ptable nits
		IG					value	Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - Metals & Inorga	anics (Soi	l)													
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:

Nivine Basily

AGAT QUALITY ASSURANCE REPORT (V1)

AGAT Laboratories is accredited to ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA) and/or Standards Council of Canada (SCC) for specific tests listed on the scope of accreditation. AGAT Laboratories (Mississauga) is also accredited by the Canadian Association for Laboratory Accreditation Inc. (CALA) for specific drinking water tests. Accreditations are location and parameter specific. A complete listing of parameters for each location is available from www.cala.ca and/or www.scc.ca. The tests in this report may not necessarily be included in the scope of accreditation. RPDs calculated using raw data. The RPD may not be reflective of duplicate values shown, due to rounding of final results.

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Quality Assurance

CLIENT NAME: SNC LAVALIN INC

PROJECT: 665125

AGAT WORK ORDER: 19H484181

ATTENTION TO: Robert Mitzakov

SAMPLING SITE: 10182 Highway 50, Brampton ON, 10182 Highway 50, Brampton ON SAMPLED BY:Brial Poole,Brian Poole

			Trac	e Or	ganio	cs Ar	nalys	is							
RPT Date: Jul 03, 2019	DUPLICATE					REFERE	NCE MA	TERIAL	METHOD	BLANK	SPIKE	MAT	TRIX SPIKE		
PARAMETER	Batch	Sample	Dup #1	Dup #2	RPD	Method Blank	Measured	Acce Lir	eptable nits	Recovery	Acce Lir	ptable nits	Recovery	Acce Lir	eptable nits
							value	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%

AGAT QUALITY ASSURANCE REPORT (V1)



Quality Assurance

CLIENT NAME: SNC LAVALIN INC

PROJECT: 665125

AGAT WORK ORDER: 19H484181

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			C	DUPLICAT	E	REFERENCE			REFERENCE MATERIA			REFERENCE MATERIAL METHOD BLANK SI					K SPIKE	IKE MATRIX SPIKE					
PARAMETER	Batch	Sample	Dup #1	Dup #2	RPD	Method Blank	Measured	Acce Lir	ptable nits	Recovery	Acce Lii	eptable mits	Recovery	Acce	eptable nits								
							value	Lower	Upper		Lower	Upper	-	Lower	Upper								
	•						•			•													
O. Reg. 153(511) - PHCs F1 - F4 (-	-BTEX) (So	oil)																					
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%								

AGAT QUALITY ASSURANCE REPORT (V1)

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Quality Assurance

CLIENT NAME: SNC LAVALIN INC

PROJECT: 665125

AGAT WORK ORDER: 19H484181

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			REFEREN	NCE MA	TERIAL	METHOD	BLANK	SPIKE	MAT	RIX SPI	KE
Batch	Sample	Dup #1	Dup #2	RPD	Method Blank	Measured	Acce Lir	ptable nits	Recovery	Acce Lir	ptable nits	Recovery	Acce Lir	ptable nits
						value	Lower	Upper		Lower	Upper		Lower	Upper
268398		< 0.05	< 0.05	NA	< 0.05	94%	50%	130%	90%	50%	130%	80%	50%	130%
(Soil)														
294132		< 0.01	< 0.01	NA	< 0.01	103%	50%	140%	89%	50%	140%	98%	50%	140%
294132		< 0.005	< 0.005	NA	< 0.005	105%	50%	140%	107%	50%	140%	90%	50%	140%
294132		< 0.005	< 0.005	NA	< 0.005	95%	50%	140%	105%	50%	140%	98%	50%	140%
294132		< 0.005	< 0.005	NA	< 0.005	107%	50%	140%	107%	50%	140%	108%	50%	140%
294132		< 0.005	< 0.005	NA	< 0.005	109%	50%	140%	105%	50%	140%	102%	50%	140%
294132		< 0.005	< 0.005	NA	< 0.005	107%	50%	140%	101%	50%	140%	95%	50%	140%
294132		< 0.007	< 0.007	NA	< 0.007	106%	50%	140%	109%	50%	140%	98%	50%	140%
294132		< 0.007	< 0.007	NA	< 0.007	104%	50%	140%	106%	50%	140%	109%	50%	140%
294132		< 0.007	< 0.007	NA	< 0.007	99%	50%	140%	106%	50%	140%	102%	50%	140%
294132		< 0.007	< 0.007	NA	< 0.007	101%	50%	140%	94%	50%	140%	102%	50%	140%
294132		< 0.005	< 0.005	NA	< 0.005	103%	50%	140%	102%	50%	140%	100%	50%	140%
294132		< 0.005	< 0.005	NA	< 0.005	103%	50%	140%	101%	50%	140%	104%	50%	140%
294132		< 0.005	< 0.005	NA	< 0.005	85%	50%	140%	104%	50%	140%	108%	50%	140%
294132		< 0.005	< 0.005	NA	< 0.005	106%	50%	140%	100%	50%	140%	106%	50%	140%
294132		< 0.01	< 0.01	NA	< 0.01	105%	50%	140%	101%	50%	140%	102%	50%	140%
	Batch 268398 (Soil) 294132 294132 294132 294132 294132 294132 294132 294132 294132 294132 294132 294132 294132 294132 294132 294132 294132	Batch Sample Id 268398 Sample Id 268398 (Soil) 294132 294132 294132 294132 294132 294132 294132 294132 294132 294132 294132 294132 294132 294132 294132 294132 294132 294132 294132 294132 294132 294132 294132 294132 294132 294132 294132 294132 294132 294132 294132 294132	Batch Sample Id Dup #1 268398 < 0.05	$\begin{tabular}{ c c c c c } \hline & & & & & & & \\ \hline & & & & & \\ \hline & & & &$	$\begin{tabular}{ c c c c c c } \hline UUPLICATE \\ \hline DUPLICATE \\ \hline Dup \#1 & Dup \#2 & RPD \\ \hline RPD \\ $	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	DUPLICATE Method Batch Sample Id Dup #1 Dup #2 RPD Method Blank REFEREN Measured Value 268398 < 0.05	DUPLICATE Method REFERENCE MA Batch Sample Dup #1 Dup #2 RPD Method Acce 268398 < 0.05	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	DUPLICATE Method Blank REFERENCE MATERIAL Value METHOD BLANK Batch Sample Id Dup #1 Dup #2 RPD Method Blank REFERENCE MATERIAL Measured Value Acceptable Limits Lower Recovery Acceptable Limits 268398 < 0.05	DUPLICATE REFERENCE MATERIAL METHOD BLANK SPIKE Batch Sample Id Dup #1 Dup #2 RPD Method Blank Method Blank Method Measured Value Acceptable Limits Acceptable Limits 268398 < 0.05	DUPLICATE REFERENCE MATERIAL METHOD BLANK SPIKE MAT Batch Sample Id Dup #1 Dup #2 RPD Method Blank REFERENCE MATERIAL METHOD BLANK SPIKE MAT 268398 < 0.05	DUPLICATE REFERENCE MATERIAL METHOD BLANK SPIKE MATRIX SPI Batch Sample Id Dup #1 Dup #2 RPD Method Blank Method Palawe Acceptable Limits Recovery Acceptable Limits Recovery

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:

NPopukoli

AGAT QUALITY ASSURANCE REPORT (V1)

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Method Summary

CLIENT NAME: SNC LAVALIN INC

PROJECT: 665125

AGAT WORK ORDER: 19H484181 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	GICP/OES						
pH, 2:1 CaCl2 Extraction	INOR-93-6031	MSA part 3 & SM 4500-H+ B	PH METER						



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5835 COOPERS AVENUE MISSISSAUGA, ONTARIO CANADA L4Z 1Y2 TEL (905)712-5100 FAX (905)712-5122 http://www.agatlabs.com

Method Summary

CLIENT NAME: SNC LAVALIN INC

PROJECT: 665125

AGAT WORK ORDER: 19H484181 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		1	L				
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				
тсмх	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

PROJECT: 665125

AGAT WORK ORDER: 19H484181 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
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



Method Summary

CLIENT NAME: SNC LAVALIN INC

PROJECT: 665125

AGAT WORK ORDER: 19H484181

ATTENTION TO: Robert Mitzakov

SAMPLING SITE 10182 Highway	50 Brampton ON 10182 Hig	hway 50 Brampton ON	SAMPLED BY Brial Poole Brian Poole
of the Englished Offerror of the High way	oo, Brampton ON, 10102 mg	invay oo, brampton on	Crimi EED DT: Brian Colo; Brian Foolo

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

	AG	a1	「 La	abor	ato	01	ries	Ph: S	N 105.7	/lissis 12.5:	58 ssaug 100 web	335 Coop ga, Ontar Fax: 905 pearth.ag	ers A io L4 5.712 atlab	venue Z 1Y2 5122 s.com	2	L: Wi Cc	abo ork O poler	rato rder # Quan	tity:	Use	e Oi	nly 191- 1	H G D	84 C	18	vl-er	7.5	
Report Inform	nation:	rd If this is	a Drinking Wa	ter sample, p	lease ι	use	Drinking Water Chain of Custody Form Regulatory Requirements	n (potable	e wate No	r cons Reg	umec ulat	t by human	ns) quire	eme	nt	Ci	ustod	/ Sea) Inta	act:	2	 Yes	9	17			₹0 Ce.C	₹ N/A
Company: Contact: Address:	SNC-Lavalin Inc Robert Mitzakov 195 The West Mall, Torc	onto, ON M9C 5	5K1		_		Regulation 153/04 Table 9 Table 10 Table 9 Table 10 Table	wer Use anitary		I		egulatior CME	558		10.11	Turnaround Time (TAT) Required: Regular TAT												
Phone: Reports to be sent to: 1. Email:	416-635-5882 x 55805 robert.mitzakov@snclava	alin.com				Res/Park Storm Agriculture Image: Check One) Soil Texture (Check One) Region		Storm Prov. Water Quality Objectives (PWQO)					Rush TAT (Rush Surcharger						y 3 to 7 Business Days ↓ 2 Business □ Next Bu □ Days □ Day						iness			
2. Email: Project Inform Project: Site Location:	onation: 665125 10182 Highway 50, Bran	npton ON			_		□Fine □ MIL Is this submission for a Record of Site Condition? □ Yes ☑ No	JFine Image: MISA Indicate One a this submission for a cord of Site Condition? Report Guideline on Certificate of Analysis 3 Yes No Image: Yes No									*	OR D Pli TAT I:	ease s exc	Requ protoclusiv	quired (Rush Surcharges May Apply): ovide prior notification for rush TAT sive of weekends and statutory holidays					oly): AT olidays	и	
Sampled By: AGAT Quote #: Invoice Inform Company: Contact: Address:	Brian Poole Please note: If quotation numbe nation: SNC-Lavalin Inc. Accounts Payable	PO:PO:	will be billed full price	e for analysis, Yes 🗌 No		E C C C F S	Sample Matrix Legend B Biota GW Ground Water O Oil P Paint S Soil SD Sadimont	tered - Metals, Hg, CrVI	daniae	Banico 8 Metals (exd. Hvdrides)	153 Metals (Incl. Hydrides)	153 BHC DCN FOC DHg		tom Metals						2 Aroclors	Pesticides	Cos CLABNS CLB(a)P CLPCBS		l Inorganics	es and Pesticide			us or High Concentration (Y/N)
Email:	payables@snclavalin.com	n Date Sampled	Time Sampled	# of Containers	Sam	nple	SW Surface Water Comments/ Special Instructions	L/A	Motale and Incr		Hydride Metals	ORPs: DB-HWS CC ⁶⁺ DEC D	Full Metals Scar	Regulation/Cust	Nutrients: TP	Volatiles: 🖪 VO	PHCs F1 - F4	ABNs	PAHS	PCBs: D Total	Organochlorine	TCLP: DM&I DVO	Sewer Use	Metal and	Herbicid€			Potentially Hazardo
SS1		June 24/19	AM 6:30	6	Soil																	1						1
SS2		June 24/19	AM 10 45	7	Soil														\checkmark									T
SS3		June 24/19	AM11:00	7	Soil				1									1										1
SS4		June 24/19	AM11-45	6	Soil				T																			1
SS5		June 24/19	AM 11:15	9	Soil																							
SS6		June 24/19	AM 11:30	6	Soil	_			1																			
			-																									
Samples Relinquished By [Pri	nt Name and Sign):		Date	Τιπ	10	_	Samples Received By (Print Name and Sign):			a			Dąt	2.		110	me			F							
Brian Poole Samples Relinquished By (Prin Samples Relinquished By (Prin	nt Neithe and Sign): a Jail Jail Jail	m	June 24	zs/19 Tim	<u>4</u> :	20	- Samberharpoli Burthan Name and Star	c hy	1 pp	2 hour	r z	Pink	Copy		ine une	2			335	01 41 :4		ο. 	Page	e <u>1</u>	Date	of 1	iarnh 22	2019



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.

 AGAT Laboratories (V1)
 Page 1 of 20

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

Results relate only to the items tested. Results apply to samples as received. All reportable information as specified by ISO 17025:2017 is available from AGAT Laboratories upon request



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.aqatlabs.com

CLIENT NAME: SNC LAVALIN INC

SAMPLING SITE:10192 Hwy 50, Brampton, ON

SAMPLED BY: Joey Preston

ATTENTION TO: Robert Mitzakov

Metals - Full Metal Scan in Soil												
DATE RECEIVED: 2019-10-17							DATE REPORTED: 2019-10-25					
		SAMPLE DESCRI SAMPLE DATE SAM	PTION: TYPE: IPLED:	BH-74-01 Soil 2019-10-16	BH-75-02 Soil 2019-10-16	BH-75-22 Soil 2019-10-16						
Parameter	Unit	G/S	RDL	624922	624941	624953						
Aluminum	µg/g	4.0	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						
Barlum	µg/g	220	2	157	1/5	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	/						
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:


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

SAMPLED BY: Joey Preston

ATTENTION TO: Robert Mitzakov

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:



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

SAMPLED BY: Joey Preston

ATTENTION TO: Robert Mitzakov

O. Reg. 153(511) - ORPs (Soil)

DATE RECEIVED: 2019-10-17

		SAMPLE DES	CRIPTION:	BH-74-01	BH-75-02	BH-75-22
		SAM	PLE TYPE:	Soil	Soil	Soil
		DATE SAMPLED:		2019-10-16	2019-10-16	2019-10-16
Parameter	Unit	G/S	RDL	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 *)



DATE REPORTED: 2019-10-25

Certified By:



AGAT WORK ORDER: 19T531714 PROJECT: City Of Brampton Drilling & Soil Sampling

CLIENT NAME: SNC LAVALIN INC

SAMPLING SITE: 10192 Hwy 50, Brampton, ON

SAMPLED BY: Joey Preston

ATTENTION TO: Robert Mitzakov

O. Reg. 153(511) - OC Pesticides (Soil)

DATE RECEIVED: 2019-10-17

					DATE NEI OKTED. 2013 10 25
		SAMPLE DESCRIPT	ION: BH-74-02	BH-75-01	
		SAMPLE T	YPE: Soil	Soil	
		DATE SAMP	LED: 2019-10-16	2019-10-16	
Parameter	Unit	G/S RE	DL 624924	624940	
Hexachloroethane	µg/g	0.01 0.0)1 <0.01	<0.01	
Gamma-Hexachlorocyclohexane	µg/g	0.01 0.0	05 <0.005	<0.005	
Heptachlor	µg/g	0.05 0.0	05 <0.005	<0.005	
Aldrin	µg/g	0.05 0.0	05 <0.005	<0.005	
Heptachlor Epoxide	µg/g	0.05 0.0	05 <0.005	<0.005	
Endosulfan	µg/g	0.04 0.0	05 <0.005	<0.005	
Chlordane	µg/g	0.05 0.0	07 <0.007	<0.007	
DDE	µg/g	0.05 0.0	07 <0.007	<0.007	
DDD	µg/g	0.05 0.0	07 <0.007	<0.007	
DDT	µg/g	1.4 0.0	07 <0.007	<0.007	
Dieldrin	µg/g	0.05 0.0	05 <0.005	<0.005	
Endrin	µg/g	0.04 0.0	05 <0.005	<0.005	
Methoxychlor	µg/g	0.05 0.0	05 <0.005	<0.005	
Hexachlorobenzene	µg/g	0.02 0.0	05 <0.005	<0.005	
Hexachlorobutadiene	µg/g	0.01 0.0	0.01 >0.01	<0.01	
Moisture Content	%	0.	1 11.0	18.9	
Surrogate	Unit	Acceptable Lim	iits		
тсмх	%	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 *)

Certified By:

DATE REPORTED: 2019-10-25

5835 COOPERS AVENUE MISSISSAUGA, ONTARIO CANADA L4Z 1Y2 TEL (905)712-5100 FAX (905)712-5122 http://www.agatlabs.com



AGAT WORK ORDER: 19T531714 PROJECT: City Of Brampton Drilling & Soil Sampling

CLIENT NAME: SNC LAVALIN INC

SAMPLING SITE: 10192 Hwy 50, Brampton, ON

SAMPLED BY: Joey Preston

ATTENTION TO: Robert Mitzakov

					<u> </u>	
DATE RECEIVED: 2019-10-17						DATE REPORTED: 2019-10-25
	:	SAMPLE DESCRIF	PTION:	BH-74-01	BH-75-02	
		SAMPLE	TYPE:	Soil	Soil	
		DATE SAM	IPLED:	2019-10-16	2019-10-16	
Parameter	Unit	G/S F	RDL	624922	624941	
Naphthalene	µg/g	0.09	0.05	<0.05	<0.05	
Acenaphthylene	µg/g	0.093 0	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	0.05	<0.05	<0.05	
Anthracene	µg/g	0.22 0	0.05	<0.05	<0.05	
Fluoranthene	µg/g	0.69 0	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	0.05	<0.05	<0.05	
Benzo(b)fluoranthene	µg/g	0.47 0	0.05	<0.05	<0.05	
Benzo(k)fluoranthene	µg/g	0.48 0	0.05	<0.05	<0.05	
Benzo(a)pyrene	µg/g	0.3	0.05	<0.05	<0.05	
ndeno(1,2,3-cd)pyrene	µg/g	0.23	0.05	<0.05	<0.05	
Dibenz(a,h)anthracene	µg/g	0.1 0	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	0.05	<0.05	<0.05	
Moisture Content	%		0.1	18.3	17.6	
Surrogate	Unit	Acceptable L	imits			
Chrysene-d12	%	50-140		92	89	

O. Reg. 153(511) - PAHs (Soil)

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 *)

Certified By:

5835 COOPERS AVENUE

MISSISSAUGA, ONTARIO

http://www.agatlabs.com

CANADA L4Z 1Y2

TEL (905)712-5100 FAX (905)712-5122



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

SAMPLED BY: Joey Preston

ATTENTION TO: Robert Mitzakov

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

DATE RECEIVED: 2019-10-17

		SAMPLE DES	CRIPTION:	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	
Parameter	Unit	G/S	RDL	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	Acceptab	ole 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 *)

DATE REPORTED: 2019-10-25



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.aqatlabs.com

CLIENT NAME: SNC LAVALIN INC

SAMPLING SITE:10192 Hwy 50, Brampton, ON

SAMPLED BY: Joey Preston

ATTENTION TO: Robert Mitzakov

DATE RECEIVED: 2019-10-17						DATE REPORTED: 2019-10-25
		SAMPLE DESCRIPT	ON: BH-74-06	BH-75-06	BH-75-66	
		SAMPLE T	PE: Soil	Soil	Soil	
		DATE SAMPI	.ED: 2019-10-16	2019-10-16	2019-10-16	
Parameter	Unit	G/S RD	L 624926	624954	624968	
Dichlorodifluoromethane	µg/g	0.05 0.0	5 <0.05	<0.05	<0.05	
Vinyl Chloride	ug/g	0.02 0.0	2 <0.02	<0.02	<0.02	
Bromomethane	ug/g	0.05 0.0	5 <0.05	<0.05	< 0.05	
Trichlorofluoromethane	ug/g	0.25 0.0	5 <0.05	<0.05	<0.05	
Acetone	ug/g	0.5 0.5	0 <0.50	<0.50	<0.50	
1,1-Dichloroethylene	ug/g	0.05 0.0	5 <0.05	<0.05	<0.05	
Methylene Chloride	ug/g	0.05 0.0	5 <0.05	<0.05	<0.05	
Trans- 1,2-Dichloroethylene	ug/g	0.05 0.0	5 <0.05	<0.05	< 0.05	
Methyl tert-butyl Ether	ug/g	0.05 0.0	5 <0.05	<0.05	<0.05	
1,1-Dichloroethane	ug/g	0.05 0.0	2 <0.02	<0.02	<0.02	
Methyl Ethyl Ketone	ug/g	0.5 0.5	0 <0.50	<0.50	<0.50	
Cis- 1,2-Dichloroethylene	ug/g	0.05 0.0	2 <0.02	<0.02	<0.02	
Chloroform	ug/g	0.05 0.0	4 <0.04	< 0.04	< 0.04	
1,2-Dichloroethane	ug/g	0.05 0.0	3 <0.03	< 0.03	<0.03	
1,1,1-Trichloroethane	ug/g	0.05 0.0	5 <0.05	<0.05	< 0.05	
Carbon Tetrachloride	ug/g	0.05 0.0	5 <0.05	<0.05	<0.05	
Benzene	ug/g	0.02 0.0	2 <0.02	<0.02	<0.02	
1,2-Dichloropropane	ug/g	0.05 0.0	3 <0.03	< 0.03	< 0.03	
Trichloroethylene	ug/g	0.05 0.0	3 <0.03	< 0.03	< 0.03	
Bromodichloromethane	ug/g	0.05 0.0	5 <0.05	<0.05	< 0.05	
Methyl Isobutyl Ketone	ug/g	0.5 0.5	0 <0.50	<0.50	<0.50	
1,1,2-Trichloroethane	ug/g	0.05 0.0	4 <0.04	< 0.04	< 0.04	
Toluene	ug/g	0.2 0.0	5 <0.05	<0.05	< 0.05	
Dibromochloromethane	ug/g	0.05 0.0	5 <0.05	<0.05	< 0.05	
Ethylene Dibromide	ug/g	0.05 0.0	4 <0.04	< 0.04	< 0.04	
Tetrachloroethylene	ug/g	0.05 0.0	5 <0.05	<0.05	< 0.05	
1,1,1,2-Tetrachloroethane	ug/g	0.05 0.0	4 <0.04	< 0.04	<0.04	
Chlorobenzene	ug/g	0.05 0.0	5 <0.05	<0.05	<0.05	
Ethylbenzene	ug/g	0.05 0.0	5 <0.05	<0.05	<0.05	
m & p-Xylene	ug/g	0.0	5 <0.05	<0.05	<0.05	

O. Reg. 153(511) - VOCs (Soil)

Certified By:



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

SAMPLED BY: Joey Preston

ATTENTION TO: Robert Mitzakov

O. Reg. 153(511) - VOCs (Soil)

DATE RECEIVED: 2019-10-17

	S	SAMPLE DES	SCRIPTION:	BH-74-06	BH-75-06	BH-75-66
		SAM	IPLE TYPE:	Soil	Soil	Soil
		DATE	SAMPLED:	2019-10-16	2019-10-16	2019-10-16
Parameter	Unit	G/S	RDL	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	hð/ð	0.05	0.04	< 0.04	< 0.04	<0.04
n-Hexane	hð/ð	0.05	0.05	<0.05	<0.05	<0.05
Surrogate	Unit	Acceptat	ole 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

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 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:

DATE REPORTED: 2019-10-25



AGAT WORK ORDER: 19T531714 PROJECT: City Of Brampton Drilling &Soil Sampling

CLIENT NAME: SNC LAVALIN INC

SAMPLING SITE:10192 Hwy 50, Brampton, ON

SAMPLED BY: Joey Preston

ATTENTION TO: Robert Mitzakov

Phenoxy Acid Herbicides (Soil)													
DATE RECEIVED: 2019-10-17						DATE REPORTED: 2019-10-25							
		SAMPLE DESCRIPTION:	BH-74-02	BH-75-01									
		SAMPLE TYPE:	Soil	Soil									
		DATE SAMPLED:	2019-10-16	2019-10-16									
Parameter	Unit	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									
MCPP (Mecoprop)	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:

5835 COOPERS AVENUE MISSISSAUGA, ONTARIO CANADA L4Z 1Y2 TEL (905)712-5100 FAX (905)712-5122 http://www.agatlabs.com



Quality Assurance

CLIENT NAME: SNC LAVALIN INC

PROJECT: City Of Brampton Drilling & Soil Sampling

SAMPLING SITE: 10192 Hwy 50, Brampton, ON

AGAT WORK ORDER: 19T531714 ATTENTION TO: Robert Mitzakov SAMPLED BY:Joey Preston

Soil Analysis

RPT Date: Oct 25, 2019				DUPLICAT	E		REFERENCE MATERIAL			METHOD BLANK SPIK			MAT	RIX SPI	KE
PARAMETER	Batch	Sample	Dup #1	Dup #2	RPD	Method Blank	Measured	Acce Lir	ptable nits	Recovery	Acce Lir	eptable mits	Recovery	Acce	ptable nits
							value	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

AGAT QUALITY ASSURANCE REPORT (V1)

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AGAT Laboratories is accredited to ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA) and/or Standards Council of Canada (SCC) for specific tests listed on the scope of accreditation. AGAT Laboratories (Mississauga) is also accredited by the Canadian Association for Laboratory Accreditation Inc. (CALA) for specific drinking water tests. Accreditations are location and parameter specific. A complete listing of parameters for each location is available from www.cala.ca and/or www.scc.ca. The tests in this report may not necessarily be included in the scope of accreditation. RPDs calculated using raw data. The RPD may not be reflective of duplicate values shown, due to rounding of final results.



Quality Assurance

CLIENT NAME: SNC LAVALIN INC

PROJECT: City Of Brampton Drilling & Soil Sampling

SAMPLING SITE: 10192 Hwy 50, Brampton, ON

AGAT WORK ORDER: 19T531714

ATTENTION TO: Robert Mitzakov

SAMPLED BY: Joey Preston

Soil Analysis (Continued)

RPT Date: Oct 25, 2019 DUPLICATE							REFEREN	NCE MA	TERIAL	METHOD	BLANK	SPIKE	MATRIX SPIKE		
PARAMETER	Batch	Sample	Dup #1	Dup #2	RPD	Method Blank	Measured	Acce Lin	ptable nits	Recoverv	Acceptable Limits		Recoverv	Acceptable Limits	
		Id					Value	Lower	Upper		Lower	Upper		Lower	Upper





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AGAT QUALITY ASSURANCE REPORT (V1)

AGAT Laboratories is accredited to ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA) and/or Standards Council of Canada (SCC) for specific tests listed on the scope of accreditation. AGAT Laboratories (Mississauga) is also accredited by the Canadian Association for Laboratory Accreditation Inc. (CALA) for specific tests tests. Accreditations are location and parameter specific. A complete listing of parameters for each location is available from www.cala.ca and/or www.scc.ca. The tests in this report may not necessarily be included in the scope of accreditation. RPDs calculated using raw data. The RPD may not be reflective of duplicate values shown, due to rounding of final results.



Quality Assurance

CLIENT NAME: SNC LAVALIN INC

PROJECT: City Of Brampton Drilling & Soil Sampling

SAMPLING SITE: 10192 Hwy 50, Brampton, ON

AGAT WORK ORDER: 19T531714 ATTENTION TO: Robert Mitzakov SAMPLED BY:Joey Preston

Trace Organics Analysis

				5			,								
RPT Date: Oct 25, 2019			0	DUPLICAT	E		REFERE	NCE MA	TERIAL	METHOD	BLAN	K SPIKE	MAT	RIX SPI	KE
PARAMETER	Batch	Sample	Dup #1	Dup #2	RPD	Method Blank	Measured	Acce Lir	eptable nits	Recovery	Acce Lir	eptable mits	Recovery	Acce Lir	ptable nits
		I III					value	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%

AGAT QUALITY ASSURANCE REPORT (V1)

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Quality Assurance

CLIENT NAME: SNC LAVALIN INC

PROJECT: City Of Brampton Drilling & Soil Sampling

SAMPLING SITE: 10192 Hwy 50, Brampton, ON

AGAT WORK ORDER: 19T531714 ATTENTION TO: Robert Mitzakov SAMPLED BY:Joey Preston

Trace Organics Analysis (Continued)

RPT Date: Oct 25, 2019			DUPLICATE						TERIAL	IAL METHOD BLANK SPIK			E MATRIX SPIKE		KE
PARAMETER	Batch	Sample	Dup #1	Dup #2	RPD	Method Blank	Measured	Acce Lir	ptable nits	Recovery	Acce Lir	ptable nits	Recovery	Acce Lir	ptable nits
		iù					value	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) (S	oil)													
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%
													_		

AGAT QUALITY ASSURANCE REPORT (V1)

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Quality Assurance

CLIENT NAME: SNC LAVALIN INC

PROJECT: City Of Brampton Drilling & Soil Sampling

SAMPLING SITE: 10192 Hwy 50, Brampton, ON

AGAT WORK ORDER: 19T531714 ATTENTION TO: Robert Mitzakov SAMPLED BY:Joey Preston

Trace Organics Analysis (Continued)

RPT Date: Oct 25, 2019			C	DUPLICATE REFERENCE MATERIAL METHOD BLANK SPIKE		METHOD BLANK SPIKE		E MATRIX SPIKE		KE					
PARAMETER	Batch	Sample	Dup #1	Dup #2	RPD	Method Blank	Measured	Acce Lin	Acceptable Limits		Acce Lin	ptable nits	Recovery	Acce Lin	ptable nits
		iù					value	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:

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AGAT QUALITY ASSURANCE REPORT (V1)

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Method Summary

CLIENT NAME: SNC LAVALIN INC

PROJECT: City Of Brampton Drilling & Soil Sampling

SAMPLING SITE: 10192 Hwy 50, Brampton, ON

AGAT WORK ORDER: 19T531714 ATTENTION TO: Robert Mitzakov SAMPLED BY:Joey Preston

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE		
Soil Analysis	1	1	1		
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	CP/OES		



Method Summary

CLIENT NAME: SNC LAVALIN INC

PROJECT: City Of Brampton Drilling & Soil Sampling

SAMPLING SITE: 10192 Hwy 50, Brampton, ON

AGAT WORK ORDER: 19T531714 ATTENTION TO: Robert Mitzakov SAMPLED BY:Joey Preston

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis		1	
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
ТСМХ	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

PROJECT: City Of Brampton Drilling & Soil Sampling

AGAT WORK ORDER: 19T531714 ATTENTION TO: Robert Mitzakov SAMPLED BY:Joev Preston

SAMPLING SITE:10192 Hwy 50, Brampto	n, 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						
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						



Method Summary

CLIENT NAME: SNC LAVALIN INC

PROJECT: City Of Brampton Drilling & Soil Sampling

AGAT WORK ORDER: 19T531714

ATTENTION TO: Robert Mitzakov

SAMPLING SITE: 10192 Hwy 50, Br	rampton, ON	SAMPLED BY: Jo	bey 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

	(?)	f La	abor	<i>ا ا</i> ato	loge pries	Ph: 90	Mis 95.712	5 ssissau 2. 5100 we	835 Coope uga, Ontario Fax: 905.7 bearth.agat	s Avenu L4Z 1Y 12.512 Iabs.cor	e 2 2 2 m	La Wor Coo	b ora k Orde ler Qu	er #: antity:	i Use	e Only i て :	1 53	171	4	1.
Chain of Custody Reco	If this is	a Drinking Wat	ter sample, p	olease use	e Drinking Water Chain of Custody Form	potable v	water c	onsume	ed by humans)			Arri	/ar ler	npera	tures:	-	2.1		. 12	
Company:	avalin line	-			(Please check all applicable bases)		No Re	egula	tory Req	iireme	ent	Cus Not	tody S es:	eal Int	tact:		′es 2		10	□n/A
Address: 195 The L	Jest Mall	/ 5k1		_ 1	Regulation 153/04 Sewe	r Use itary			Regulation 5 CCME	58		Turi Reg	naro ular '	und TAT	Time	e (TA	T) Re	equired	l:	
Phone: 416-635-58	82 X	5805			Res/Park Sto	'n			Prov. Water (uality		Rus	h TAT	(Rush S	Surcharg	(es Apply)	5107	Business	Jays	
Reports to be sent to: 1. Email: 2. Email: Abed, Ya Ssu	Korasni	Vala- Co	ion m		Soil Texture (Check One) Region Indica	te One	-		Objectives (F Other	WQO)		E	3 E Daj	Busine ys	ess		2 Busi Days	ness	□ Next Day	Business
Project Information:	10 0 7.01				Is this submission for a	I	Re	nort (Indicate Or Guideline	e	112		OF	R Date	e Requi	ired (Ru	ish Su	rcharges	vlay Apply):
Project: Scary of Bran	pton, Pr.15	ing cand	Sol Saw	pling	Record of Site Condition?		Cert	tifica	te of Ana	lysis	1		*T4	Pleas	e provi	ide prio	or noth	fication fo	r rush TA	davs
Site Location: 10192 HWY	50, Brung	ton, ON		-	□ Yes □ No			Yes		No		Fo	or 'San	ne Da	y' anal	lysie p	lease	contact y	our AGAT	СРМ
AGAT Quote #:	PO:	665125			Sample Matrix Logond		4	O. Reg	g 153				.0			i de	3			(N/
Invoice Information: Company: SNC- Contact: Address: Email: Rayables 9 50	Lovertin (n clovalin-c	Bill To Same:	Yes 🗌 No	,	Gw Ground Water O Oil P Paint S Soil SD Sediment SW Surface Water	Field Filtered - Metals, H	and Inorganites SAL	tals 🗌 153 Metals (excl. Hydrid: le Metals 🗌 153 Metals (Incl. Hy	DB-HWS CICI CICN DEC DFOC DHg JSAR	stals Scan tion/Custom Metals	nts: D TP D NH ₃ D TKN D NO ₂ D NO ₃ +NO ₂	SS: OVOC DBTEX DTHM	1-14, VOCS ~ Ha		□ Total □ Aroclors	Interne Pesticides		Heths / Inorgan	1	Ily Hazardous or High Concentr
Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	le Comments/ x Special Instructions	Y/N	Metals	Hydric	ORPs: CC°	Full Me Regula	Nutrier No.	Volatile	ABNs	PAHs	PCBs:	Organo	Sewer	20		Potentia
BH-74-01	0.416/14	10:15	2	505			X							X		-		XX		
BH-74-02		10:20					1		A	-				-		X	_			
BH-19-06 BH-15-Al		17:45	7	-										-		×	-			
BH-15-02		12:55	2		United Receivery		X							X				XX		
Btl-75-22		12:35	1	-	(×						-					44		
BH-B-06 BH-75-11		14:15	2	1	1 - F / P aval		(-		4	>	-				1000		
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Samples Reling Ushed By (Print Name and Sign):		Date	Tin	ne	Samples Received By (Print Name and Sign):					Da	te		Time				Pag	e	of	
Samples Relinquished By (Print Name and Sign):		Date	Tin	ne	Samples Received By (Print Name and Sign):					Da	e		Time			Nº:	ΤΛ	96	243	
ocument ID: DIV 78 1511.016				N. (X. (X. (X)					Pink Co	py - Clie	nt I Ye	llow Co	py - A	GAT I	White	Nº: e Copy-	AGAT	96 Dpg	<u>243</u>	2Ô 20



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

*NOT	TES		

All samples will be disposed of within 30 days following analysis. Please contact the lab if you require additional sample storage time.

 AGAT Laboratories (V1)
 Page 1 of 5

 Member of: Association of Professional Engineers and Geoscientists of Alberta (APEGA)
 AGAT Laboratories is accredited to ISO/IEC 17025 by the Canadian Association for Laboratory

 Accreditation Inc. (CALA) and/or Standards Council of Canada (SCC) for specific tests listed on the scope of accreditation Inc. (CALA) and/or specific diversity the Canadian Association for Laboratory Accreditation Inc. (CALA) and/or specific diversity the Canadian Association is available from www.cala.ca and/or www.scc.ca. The tests in this report may not necessarily be included in the scope of accreditation. Measurement Uncertainty is not taken into consideration when stating conformity with a specified requirement.

Results relate only to the items tested. Results apply to samples as received. All reportable information as specified by ISO 17025:2017 is available from AGAT Laboratories upon request



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.aqatlabs.com

CLIENT NAME: SNC LAVALIN INC

SAMPLING SITE:

ATTENTION TO: Robert Mitzakov

SAMPLED BY:

	O. Reg. 153(511) - ORPs (Soil)										
DATE RECEIVED: 2019-10-17								[DATE REPORT	ED: 2019-10-29	
		SAMPLE DES	CRIPTION:	SS7	SS8	SS9	SS99	SS10	SS11	SS12	SS13
		SAM	PLE TYPE:	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATES	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 DES	CRIPTION:	SS14							
		SAM	PLE 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:

Nivine Basily



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				REFEREN	REFERENCE MATERIAL		METHOD BLANK SPIKE		MATRIX SPIKE		KE	
PARAMETER	Batch	Sample	Dup #1	Dup #2	RPD	Method Blank	Measured	Acceptab ured Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
		Ia					value	Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - ORPs (Soil) pH, 2:1 CaCl2 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 CaCl2 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:

Nivine Basily

Page 3 of 5

AGAT QUALITY ASSURANCE REPORT (V1)

AGAT Laboratories is accredited to ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA) and/or Standards Council of Canada (SCC) for specific tests listed on the scope of accreditation. AGAT Laboratories (Mississauga) is also accredited by the Canadian Association for Laboratory Accreditation Inc. (CALA) for specific drinking water tests. Accreditations are location and parameter specific. A complete listing of parameters for each location is available from www.cala.ca and/or www.scc.ca. The tests in this report may not necessarily be included in the scope of accreditation. RPDs calculated using raw data. The RPD may not be reflective of duplicate values shown, due to rounding of final results.



Method Summary

CLIENT NAME: SNC LAVALIN INC		AGAT WORK ORDER: 19T531731						
PROJECT: City Of Brampton Drilling & S	Soil Sampling	ATTENTION TO: Robert Mitzakov						
SAMPLING SITE:		SAMPLED BY:						
PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE					
Soil Analysis								
pH, 2:1 CaCl2 Extraction	INOR-93-6031	MSA part 3 & SM 4500-H+ B	pH METER					

Chain of Custody Record If this is a Drinking Water sample, please of	5835 Coopers Avenue Mississauga, Ontario L4Z 1Y2 Ph: 905.712.5100 Fax: 905.712.5122 webearth.agatlabs.com	Laboratory Use Only 4 Work Order #:
Report Information: Stk-Land - Jac Company: Contact: Robert Mite-aker	Regulatory Requirements: No Regulatory Requirement (Please check all applicable baxes) Regulation 153/04 Regulation 153/04 Sewer Use Regulation 558	Custody Seal Intact: Custody Seal Intact: Notes: Turnoround Time (TAT) Population
Address: <u>H2 The WA Freent</u> Terento ON <u>M9C 5K4</u> Phone: <u>HK -635-5556 × Fox 55805</u> Reports to be sent to: 1. Email: <u>Rebert . Mitzakoj @Sneluvid.n.com</u> 2. Email: <u>Abert Jussine @Sneluvid.n.com</u>	Table Image: Comparison of the second seco	Regular TAT 5 to 7 Business Days Rush TAT (Rush Surcharges Apply) 3 Business 2 Business Days Days OR Date Regular (Push Surcharges May Apply)
Project Information: Project: City of Brownton Prilling of Scil Sayily Site Location: 10192 HUY 30, Brownton UN Sampled By: Jorg Reston	Is this submission for a Report Guldeline 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
AGAT Quote #:	Sample Matrix Legend N. D. Reg 153 B Biota GW Ground Water 0 0il P Paint S Solil SD Sediment SW Surface Water Image: Signal Scould Water Image: Signal Scould Water GN Image: Signal Scould Water D Image: Signal Scould Water SD Sediment SW Surface Water	Divo, Cino,+No, s: Divoc Cientick Cirtial 1-F4 1Total Ciancelors Chlorine Pesticides M&L Divocs CiateNs Cielgap Cipces See See See See See See See See See See
Sample Identification Date Sampled Time Sampled # of Containers Sam Mat Second CC7 D+ if fig C C	le Comments/ x Special Instructions Y/N Spec	□ No ₃ PHCs F PHCs F PHCs F PHCs F PCBs: E PCBs: E Sewer U Sewer U
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Samples Relinquished By (Print Name and Sign): Date Time	Albert Samples Received By (Print Name and Sign): Date Samples Received By (Print Name and Sign): Date	<u>/ј.д/ги</u> <u>1:25</u> Time Page of Time Nº: Т Л Д К Л Л 1



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.

 AGAT Laboratories (V1)
 Page 1 of 8

 Member of: Association of Professional Engineers and Geoscientists of Alberta (APEGA)
 AGAT Laboratories is accredited to ISO/IEC 17025 by the Canadian Association for Laboratory

 Accreditation Inc. (CALA) and/or Standards Council of Canada (SCC) for specific citests listed on the scope of accreditation Inc. (CALA) and/or Standards Council of Canada (SCC) for specific citests listed on the scope of accreditation Inc. (CALA) and/or Standards Council of Canada (SCC) for specific citests listed on the scope of accreditation Inc. (CALA) for specific divinking water tests. Accreditations are location and parameter specific. A complete listing of parameters for each location is available from www.cala.ca and/or www.scc.ca. The tests in this report may not necessarily be included in the scope of accreditation. Measurement Uncertainty is not taken into consideration when stating conformity with a specified requirement.

Results relate only to the items tested. Results apply to samples as received. All reportable information as specified by ISO 17025:2017 is available from AGAT Laboratories upon request



AGAT WORK ORDER: 19T531736 PROJECT: City Of Brampton Drilling & Soil Sampling

CLIENT NAME: SNC LAVALIN INC

SAMPLING SITE:

624923

ATTENTION TO: Robert Mitzakov

5835 COOPERS AVENUE MISSISSAUGA, ONTARIO CANADA L4Z 1Y2 TEL (905)712-5100 FAX (905)712-5122 http://www.agatlabs.com

SAMPLED BY:

O. Reg. 153(511) - PHCs F1/BTEX (Water)

DATE RECEIVED: 2019-10-17

-	-				
S	SAMPLE DESCRIPTION:				
	SAMPLE TYPE:				
	DATE	SAMPLED:	2019-10-16		
Unit	G/S	RDL	624923		
µg/L		25	<25		
µg/L	420	25	<25		
	Unit μg/L μg/L	SAMPLE DES SAM DATE : Unit G / S µg/L µg/L 420	SAMPLE DESCRIPTION: SAMPLE TYPE: DATE SAMPLED: Unit G / S RDL µg/L 25 µg/L 420 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.

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:

DATE REPORTED: 2019-10-23



AGAT WORK ORDER: 19T531736 PROJECT: City Of Brampton Drilling & Soil Sampling

ATTENTION TO: Robert Mitzakov

SAMPLED BY:

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:

O. Reg. 153(511) - VOCs (Water)

DATE RECEIVED: 2019-10-17

DATE RECEIVED: 2019-10-17					DATE REPORTED: 2019-10-23
	S	SAMPLE DESCRIF	PTION: T	rip Blank	
		SAMPLE	TYPE:	Water	
		DATE SAM	IPLED: 2	019-10-16	
Parameter	Unit	G/S F	RDL	624923	
Dichlorodifluoromethane	µg/L	590 (0.20	<0.20	
Vinyl Chloride	µg/L	0.5 0	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	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	0.20	<0.20	
Chloroform	µg/L	2.4 0	0.20	<0.20	
1,2-Dichloroethane	µg/L	1.6 0	0.20	<0.20	
,1,1-Trichloroethane	µg/L	200 0	0.30	<0.30	
Carbon Tetrachloride	µg/L	0.79 0	0.20	<0.20	
Benzene	µg/L	5 (0.20	<0.20	
1,2-Dichloropropane	µg/L	5 (0.20	<0.20	
Frichloroethylene	µg/L	1.6 0	0.20	<0.20	
Bromodichloromethane	µg/L	16 0	0.20	<0.20	
Methyl Isobutyl Ketone	µg/L	640	1.0	<1.0	
1,1,2-Trichloroethane	µg/L	4.7 0	0.20	<0.20	
Toluene	µg/L	22 (0.20	<0.20	
Dibromochloromethane	µg/L	25 0	0.10	<0.10	
Ethylene Dibromide	µg/L	0.2 0	0.10	<0.10	
Fetrachloroethylene	µg/L	1.6 0	0.20	<0.20	
1,1,1,2-Tetrachloroethane	µg/L	1.1 (0.10	<0.10	
Chlorobenzene	µg/L	30 0	0.10	<0.10	
Ethylbenzene	µg/L	2.4 0	0.10	<0.10	
m & p-Xylene	µg/L	(0.20	<0.20	

Certified By:

Navdeep Kansera



AGAT WORK ORDER: 19T531736 PROJECT: City Of Brampton Drilling & Soil Sampling

ATTENTION TO: Robert Mitzakov

5835 COOPERS AVENUE MISSISSAUGA, ONTARIO CANADA L4Z 1Y2 TEL (905)712-5100 FAX (905)712-5122 http://www.aqatlabs.com

CLIENT NAME: SNC LAVALIN INC

SAMPLING SITE:

O. Reg. 153(511) - VOCs (Water)

DATE RECEIVED: 2019-10-17

	SA	AMPLE DES	CRIPTION:	Trip Blank
		SAM	PLE 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	Acceptab	le Limits	
Toluene-d8	% Recovery	50-2	140	106
4-Bromofluorobenzene	% Recovery	50-1	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

DATE REPORTED: 2019-10-23



Page 5 of 8

Quality Assurance

CLIENT NAME: SNC LAVALIN INC

PROJECT: City Of Brampton Drilling & Soil Sampling

SAMPLING SITE:

AGAT WORK ORDER: 19T531736

ATTENTION TO: Robert Mitzakov

SAMPLED BY:

Trace Organics Analysis

				,	5		- , -	-								
RPT Date: Oct 23, 2019			C	UPLICATI	E		REFEREN	NCE MA	TERIAL	METHOD	BLANK	SPIKE	MAT	RIX SPI	KE	
PARAMETER	Batch	Sample	Dup #1	Dup #2	RPD	Method Blank	Measured	Acce Lir	ptable nits	Recovery	Acce Lir	eptable nits	Recovery	Acce Lir	ptable nits	
	Baton	ld	Dap "I	Bup "2			Value	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%	

AGAT QUALITY ASSURANCE REPORT (V1)

AGAT Laboratories is accredited to ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA) and/or Standards Council of Canada (SCC) for specific tests listed on the scope of accreditation. AGAT Laboratories (Mississauga) is also accredited by the Canadian Association for Laboratory Accreditation Inc. (CALA) for specific drinking water tests. Accreditations are location and parameter specific. A complete listing of parameters for each location is available from www.cala.ca and/or www.scc.ca. The tests in this report may not necessarily be included in the scope of accreditation. RPDs calculated using raw data. The RPD may not be reflective of duplicate values shown, due to rounding of final results.



Quality Assurance

CLIENT NAME: SNC LAVALIN INC

PROJECT: City Of Brampton Drilling & Soil Sampling

SAMPLING SITE:

AGAT WORK ORDER: 19T531736

ATTENTION TO: Robert Mitzakov

SAMPLED BY:

Trace Organics Analysis (Continued)															
RPT Date: Oct 23, 2019				DUPLICAT	E		REFEREN	NCE MA	TERIAL		BLAN	SPIKE	MAT	RIX SPI	KE
PARAMETER	Batch	Sample	Dup #1	Dup #2	RPD	Method Blank	Measured	Acce Lin	ptable nits	Recovery	Acce	eptable nits	Recoverv	Acce Lin	ptable nits
		Id					value	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:

Navdeep Kansera

Page 6 of 8

AGAT QUALITY ASSURANCE REPORT (V1)

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Method Summary

CLIENT NAME: SNC LAVALIN INC

PROJECT: City Of Brampton Drilling & Soil Sampling

AGAT WORK ORDER: 19T531736 ATTENTION TO: Robert Mitzakov

SAMPLING SITE:		SAMPLED BY:								
PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE							
Trace Organics Analysis		1								
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							

Chain of Custody Record	d If this is a		abor ter sample, p	atc	l Luge Dries se Drinking Water Chaln of Custody Form	Ph: 90	M 05.71 water (5 ississau 2.5100 we consume	i835 Coopers uga, Ontario L Fax: 905.71 bearth.agatla	Avenu 4Z 1Y 2.512 bs.com	e 2 2 m	La wa Co Ar	abor ork Orc oler Q rival Te	ator der #: uanti emper	ty:	se 0 ຊີ-	nly TS	31	72	100	24
Report Information: SNC Low Company: SNC Low Contact: Robert Mitzake Address: 95 The West I Phone: The SS 5885 × Reports to be sent to: Robert. Mitzake 1. Email: Robert. Mitzake 2. Email: Abcol. Lasson G Project Information: Notest I	alin Inc Mall Mgc 53865 Osinclaval Snelavalin	5KI M.Con Com			Regulatory Requirements: (Please check all applicable boxes) Regulation 153/04 Table Indicate One Ind/Com Agriculture Soil Texture (check One) Coarse Fine Indicate Store Indicate One Indicate One Indicate One Store Indicate One Indicate One Store Indicate One Indicate One Indicate One Is this submission for a	er Use hitary rm ate One	No R	egula	tory Requi Regulation 555 CCME Prov. Water Qu Dbjectives (PW Dther Indicate One Guideline	ality (QO)	ent	Cu Na Tu Re; Ru	stody otes: gular gular sh TA	Seal I DUN TAT T (Rus Busir ays DR Da	Intact d Til h Surch ness te Rec	me (TAT	s A 140) Rec to 7 Bu Busine ays h Surce	Juirec ssiness harges f	Jo Jo J: Days	ext Business ay pply):
Project: Site Location: Sampled By: AGAT Quote #: Please note: If quotation number Invoice Information: Company: Contact: Address: Email: Please note: If quotation number Company: Contact: Address: Email: Company: Contact: Company: Contact: Company: Contact: Company: Contact: Company: Contact: Contac	Poilling PO: 6 is not provided, client w Doilling color.com	and San N SIZE II be billed full price Bill To Same: Gast Son	(Sump) for analysis. Mes D No Explire	×	Record of Site Condition? 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	cer	etals 153 Metals (excl. Hydrides) 0. 0 de Metals 1153 Metals (incl. Hydrides) 0. 0	Tes of Analy Tes of Analy Tes Dec Dec SAR Cor Dec Cor Dec Co	ation/Custom Metals	DIA: DTP DNH, DTKN DNO2 DN03+NO2	es: D VOC DBTEX D THM	F1 - F4	Plea AT is o	ase pr exclus Pay'a Vucious	ocylorine Pesticides	prior f week	notific kends a base co	ation fo and stat	r rush Jtory f	TAT Iolidays AT CPM
Sample Identification	Date Sampled	Time Sampled	# of Containers	Samp Matri	Comments/ Special Instructions	Y/N	Metais			Regula		Volatile	PHOS F	ABNS	POBS	Organo		Sewer	KFL		
Samples Relinquished By (Print Name and Sign): Samples Relinquished By (Print Name and Sign): Samples Relinquished By (Print Name and Sign): Decumped ID: DW 78, 1514 046	21	Date Date Date	19 Tim Tim	e e	Samples Received By (Print Name and Sign): Samples Received By (Print Name and Sign): Samples Received By (Print Name and Sign):	2				Dat	<i>F/17</i>	z/ma	Time		5	N	•: T	Page	960	of	2

Appendix F

Laboratory Certificates of Analysis (Groundwater)

TABLE F.1: Field Blank QA/QC Results

Groundwater Samples

10192	Highway	50,	Brampton,	ON
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	Sample	Location	FIELD BLANK	FIELD BLANK	TRIP BLANK	TRIP BLANK
L	aboratory	Sample ID	306345	640960	306348	624923
SN	C-Lavalin	Sample ID	Field Blank	Field Blank	Trip Blank	Trip Blank
Samplin	g Date (vv	/v/mm/dd)	2019/06/24	2019/10/22	2019/06/24	2019/10/16
Parameter	RDL	Units				
Petroleum Hydrocarbon (PHC) Fractions						
PHC F1	25	ua/L	< 25	< 25	-	< 25
PHC F2	100	ua/L	< 100	< 100	-	_
PHC F3	100	ua/L	< 100	< 100	-	-
PHC F4	100	ua/L	< 100	< 100	-	-
		1.5				
Volatile Organic Compounds						
Acetone	1.0	µq/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	ua/L	< 0.10	< 0.10	< 0.10	< 0.10
Bromomethane	0.20	µa/L	< 0.20	< 0.20	< 0.20	< 0.20
Carbon Tetrachloride	0.20	μα/L	< 0.20	< 0.20	< 0.20	< 0.20
Chlorobenzene	0.10	ua/L	< 0.10	< 0.10	< 0.10	< 0.10
Chloroform	0.20	ua/L	< 0.20	< 0.20	< 0.20	< 0.20
Dibromochloromethane	0.10	ua/l	< 0.10	< 0.10	< 0.10	< 0.10
Dichlorobenzene, 1.2- (o-DCB)	0.10	ua/l	< 0.10	< 0.10	< 0.10	< 0.10
Dichlorobenzene, 1,3- (m-DCB)	0.10	µ9/⊑ µa/l	< 0.10	< 0.10	< 0.10	< 0.10
Dichlorobenzene, 1,4- (n-DCB)	0.10	µ9/⊑ µa/l	< 0.10	< 0.10	< 0.10	< 0.10
Dichlorodifluoromethane	0.20	ua/l	< 0.20	< 0.20	< 0.20	< 0.20
Dichloroethane 11-	0.30	ua/l	< 0.30	< 0.30	< 0.30	< 0.30
Dichloroethane, 1,1	0.00	µg/⊑ ⊔a/l	< 0.00	< 0.20	< 0.20	< 0.20
Dichloroethylene 11-	0.30	µ9/⊑ µa/l	< 0.30	< 0.30	< 0.30	< 0.30
Dichloroethylene, cis-1 2-	0.20	µ9/⊑ µa/l	< 0.20	< 0.20	< 0.20	< 0.20
Dichloroethylene, trans-1 2-	0.20	µ9/⊑ µa/l	< 0.20	< 0.20	< 0.20	< 0.20
Dichloropropage 1.2-	0.20	µ9/⊑ µa/l	< 0.20	< 0.20	< 0.20	< 0.20
Dichloropropene, 1.3-	0.20	µg/⊑ ⊔a/l	< 0.30	< 0.30	< 0.30	< 0.30
Ethylbenzene	0.00	µg/⊑ ⊔a/l	< 0.00	< 0.10	< 0.10	< 0.10
Ethylene Dibromide (Dibromoethane, 1.2-)	0.10	µg/⊑ ⊔a/l	< 0.10	< 0.10	< 0.10	< 0.10
Hexane (n)	0.10	µg/⊑ ⊔a/l	< 0.10	< 0.20	< 0.20	< 0.20
Methyl Ethyl Ketone	1.0	µg/∟ ⊔a/l	< 1.0	< 1.0	< 1.0	< 1.0
Methyl Isobutyl Ketone	1.0	ua/l	< 1.0	< 1.0	< 1.0	< 1.0
Methyl t-butyl ether (MTBF)	0.20	ua/l	< 0.20	< 0.20	< 0.20	< 0.20
Methylene Chloride	0.30	на/I	< 0.30	< 0.30	< 0.30	< 0.30
Styrene	0.00	µ9/⊑ µa/l	< 0.10	< 0.10	< 0.10	< 0.10
Tetrachloroethane 1112-	0.10	µg/⊑ ⊔a/l	< 0.10	< 0.10	< 0.10	< 0.10
Tetrachloroethane, 1,1,2	0.10	µg/⊑ ⊔a/l	< 0.10	< 0.10	< 0.10	< 0.10
Tetrachloroethylene	0.10	µg/⊏ ⊔a/l	< 0.10	< 0.20	< 0.20	< 0.20
Toluene	0.20	µg/⊏ ⊔a/l	< 0.20	0.31	< 0.20	< 0.20
Trichloroethane 111	0.20	µ9/⊏ ua/l	< 0.30	< 0.30	< 0.30	< 0.30
Trichloroethane 112-	0.00	µg/⊑ ⊔a/l	< 0.00	< 0.20	< 0.00	< 0.20
Trichloroethylene	0.20	µg/⊑ ⊔a/l	< 0.20	< 0.20	< 0.20	< 0.20
Trichlorofluoromethane	0.20	µg/⊑ ⊔a/l	< 0.20	< 0.40	< 0.20	< 0.40
Vinyl Chloride	0.40	µg/⊑ ⊔a/l	< 0.40	< 0.40	< 0.40	< 0.40
Xvlenes	0.17	µg/⊑ ⊔a/l	< 0.20	< 0.20	< 0.20	< 0.20
Xylenes m+n-	0.20	P9/⊏ U0/I	< 0.20	< 0.20	< 0.20	< 0.20
Xvlenes. o-	0.10	µg/⊏ ua/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
		NI D	311538	306337	N D	640955	6/0050	
SNC-I avalin	Sample ID	Limit	MW-51	MW-511		MW-75	MW-755	
Sampling Date (non	w/mm/dd)	80%	2010/06/24	2010/06/24		2010/10/22	2010/10/22	
Sampling Date (yyyymm/dd)		0070	2013/00/24	Duplicate of		2013/10/22	Duplicate of	
Parameter	Unite			MW-51			MW-75	
T arameter	Unita			10100-51			10100-75	
Petroleum Hydrocarbon (PHC) Fractions								
PHC F1	ua/L	80%	< 25	< 25	*	< 25	< 25	*
PHC F2	ug/L	80%	< 100	_	-	< 100	< 100	*
PHC F3	ua/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	*
Dichloropropene, 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	*
Tetrachioroethane, 1,1,2,2-	µg/L	80%	< 0.10	< 0.10		< 0.10	< 0.10	Ť
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	* *
Trichicroetnane, 1,1,2-	µg/L	80%	< 0.20	< 0.20	Ĵ	< 0.20	< 0.20	Ĵ
Trichlandfuganether	µg/L	80%	< 0.20	< 0.20	Ĵ	< 0.20	< 0.20	Ĵ
I richlorofluoromethane	µg/L	80%	< 0.40	< 0.40	*	< 0.40	< 0.40	*
Vinyi Chioride	µg/L	80%	< 0.17	< 0.17	*	< 0.17	< 0.17	*
Aylenes Yulanaa mtn	µg/L	80%	< 0.20	< 0.20	*	0.50	0.54	*
Aylenes, m+p-	µg/L	00%	< 0.20 < 0.10	< 0.20	*	0.33	0.31	
Aylenes, 0-	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.

AGAT Laboratories (V2)

Page 1 of 19 Member of: Association of Professional Engineers and Geoscientists of Alberta AGAT Laboratories is accredited to ISO/IEC 17025 by the Canadian Association for Laboratory (APEGA) Accreditation Inc. (CALA) and/or Standards Council of Canada (SCC) for specific tests listed on the Western Enviro-Agricultural Laboratory Association (WEALA) scope of accreditation. AGAT Laboratories (Mississauga) is also accredited by the Canadian Environmental Services Association of Alberta (ESAA) Association for Laboratory Accreditation Inc. (CALA) for specific drinking water tests. Accreditations are location and parameter specific. A complete listing of parameters for each location is available from www.cala.ca and/or www.scc.ca. The tests in this report may not necessarily be included in the scope of accreditation. Measurement Uncertainty is not taken into consideration when stating conformity with a specified requirement.

Results relate only to the items tested. Results apply to samples as received. All reportable information as specified by ISO 17025:2017 is available from AGAT Laboratories upon request


AGAT WORK ORDER: 19T484919 PROJECT: 665125 5835 COOPERS AVENUE MISSISSAUGA, ONTARIO CANADA L4Z 1Y2 TEL (905)712-5100 FAX (905)712-5122 http://www.aqatlabs.com

CLIENT NAME: SNC LAVALIN INC

SAMPLING SITE: 10192 Hwy 50, Brampton, ON

ATTENTION TO: Robert Mitzakov

SAMPLED BY:Sara Akib

				3	,,	()))	,				
DATE RECEIVED: 2019-06-26									DATE REPORTEI	D: 2019-07-05	
		SAMPLE DESC	RIPTION:	MW-03	MW-02	MW-22	MW-35	MW-30	MW-70		
		SAMP	LE TYPE:	Water	Water	Water	Water	Water	Water		
		DATE S	AMPLED:	2019-06-25	2019-06-24	2019-06-25	2019-06-24	2019-06-24	2019-06-24		
Parameter	Unit	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	e Limits								
Chrysene-d12	%	50-14	10	106	106	94	83	95	85		

O. Reg. 153(511) - PAHs (Water)

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:

NPopukolof



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) - PHCs F1 - F4 (-BTEX) (Water)

DATE RECEIVED: 2019-06-26

5	SAMPLE DESCR	RIPTION:	MW-51	Field Blank
	SAMPL	E TYPE:	Water	Water
	DATE SA	DATE SAMPLED:		2019-06-24
Unit	G / S	RDL	306316	306345
μg/L		25	<25	<25
µg/L	420	25	<25	<25
μg/L	150	100	<100	<100
µg/L	500	100	<100	<100
µg/L	500	100	<100	<100
µg/L	500	500	NA	NA
Unit	Acceptable	Acceptable Limits		
0/_	60-14	0	60	67
	Unit µg/L µg/L µg/L µg/L µg/L µg/L µg/L Unit	SAMPLE DESCI SAMPL DATE SA Unit G / S µg/L µg/L 420 µg/L 150 µg/L 500 µg/L 500 µg/L 500 µg/L 500 0 Unit Acceptable	SAMPLE DESCRIPTION: SAMPLE TYPE: DATE SAMPLED: Unit G / S µg/L 25 µg/L 420 25 µg/L 150 100 µg/L 500 100 µg/L 500 500 µg/L 500 500 µg/L 500 500 µg/L 500 500 µg/L 500 100 µg/L 500 100 µg/L 500 500 µg/L 500 500 µg/L 500 500	SAMPLE DESCRIPTION: MW-51 SAMPLE TYPE: Water DATE SAMPLED: 2019-06-24 Unit G / S RDL 306316 µg/L 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.

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 nC34.

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:

NPopukoloj



AGAT WORK ORDER: 19T484919 PROJECT: 665125 5835 COOPERS AVENUE MISSISSAUGA, ONTARIO CANADA L4Z 1Y2 TEL (905)712-5100 FAX (905)712-5122 http://www.aqatlabs.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: 2019-06-26

		SAMPLE DESC	RIPTION:	MW-03	MW-02	MW-22	MW-35	MW-30	MW-70	
		SAMP	LE TYPE:	Water	Water	Water	Water	Water	Water	
		DATE S	DATE SAMPLED:		2019-06-24	2019-06-25	2019-06-24	2019-06-24	2019-06-24	
Parameter	Unit	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	Acceptable Limits							
Terphenyl	%	60-14	40	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.

Extraction and holding times were met for this sample.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:

NPopukoloj

Linearity is within 15%.



AGAT WORK ORDER: 19T484919 PROJECT: 665125 5835 COOPERS AVENUE MISSISSAUGA, ONTARIO CANADA L4Z 1Y2 TEL (905)712-5100 FAX (905)712-5122 http://www.aqatlabs.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/BTEX (Water)

DATE RECEIVED: 2019-06-26

306337

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.

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:

NPopukoloj



AGAT WORK ORDER: 19T484919 PROJECT: 665125

O. Reg. 153(511) - VOCs (Water)

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

						· · · ·	-	г							
DATE RECEIVED. 2019-08-20								L	DATE REFORTED. 2019-07-03						
		SAMPLE DESCR	IPTION:	MW-03	MW-02	MW-22	MW-35	MW-51	MW-511	MW-30	MW-70				
		SAMPLI	E TYPE:	Water	Water	Water	Water	Water	Water	Water	Water				
		DATE SAI	MPLED:	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				
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:

NPopukolof



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) - VOCs (Water)

DATE RECEIVED: 2019-06-26								I	DATE REPORT	ED: 2019-07-05	
	Ş	SAMPLE DES	CRIPTION:	MW-03	MW-02	MW-22	MW-35	MW-51	MW-511	MW-30	MW-70
		SAM	PLE TYPE:	Water	Water	Water	Water	Water	Water	Water	Water
		DATE	DATE SAMPLED: 20		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	Acceptab	le 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:

NPopukolof



AGAT WORK ORDER: 19T484919 PROJECT: 665125

O. Reg. 153(511) - VOCs (Water)

CLIENT NAME: SNC LAVALIN INC

SAMPLING SITE: 10192 Hwy 50, Brampton, ON

5835 COOPERS AVENUE MISSISSAUGA, ONTARIO CANADA L4Z 1Y2 TEL (905)712-5100 FAX (905)712-5122 http://www.agatlabs.com

ATTENTION TO: Robert Mitzakov

SAMPLED BY:Sara Akib

				•		
DATE RECEIVED: 2019-06-26						DATE REPORTED: 2019-07-05
	S	SAMPLE DESCR	IPTION:	Field Blank	Trip Blank	
		SAMPLI	E TYPE:	Water	Water	
		DATE SA	MPLED:	2019-06-24	2019-06-24	
Parameter	Unit	G/S	RDL	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:

NPopukoloj



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) -	- VOCs (Water)	
			_

DATE RECEIVED: 2019-06-26

	S	SAMPLE DES	CRIPTION:	Field Blank	Trip Blank	
		SAM	PLE TYPE:	Water	Water	
		DATES	SAMPLED:	2019-06-24	2019-06-24	
Parameter	Unit	G/S	RDL	306345	306348	
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	Acceptab	le Limits			
Toluene-d8	% Recovery	50-1	40	83	89	
4-Bromofluorobenzene	% Recovery	50-1	40	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.

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Analysis performed at AGAT Toronto (unless marked by *)

Certified By:

NPopukolof



AGAT WORK ORDER: 19T484919 PROJECT: 665125 5835 COOPERS AVENUE MISSISSAUGA, ONTARIO CANADA L4Z 1Y2 TEL (905)712-5100 FAX (905)712-5122 http://www.aqatlabs.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) - Metals & Inorganics (Water)

DATE RECEIVED: 2019-06-26								DATE REPORTED: 2019-07-05					
		SAMPLE DESCR SAMPL DATE SA	RIPTION: .E TYPE: .MPLED:	MW-03 Water 2019-06-25	MW-02 Water 2019-06-24	MW-22 Water 2019-06-25	MW-35 Water 2019-06-24	MW-30 Water 2019-06-24	MW-70 Water 2019-06-24				
Parameter	Unit	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				
рН	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 PROJECT: 665125

SAMPLING SITE: 10192 Hwy 50, Brampton, ON

AGAT WORK ORDER: 19T484919 ATTENTION TO: Robert Mitzakov SAMPLED BY:Sara Akib

Trace Organics Analysis

							,						- <u>-</u>		
RPT Date: Jul 05, 2019			DUPLICATE				REFERENCE MATERIAL		L METHOD BLANK SPIKE			MAT	RIX SPI	KE	
PARAMETER	Batch	Sample	Dup #1	Dup #2	RPD	Method Blank	Measured	Acce Lir	ptable nits	Recovery	Acce Lir	ptable nits	Recovery	Acce	ptable nits
		I III					value	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%

AGAT QUALITY ASSURANCE REPORT (V2)

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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)

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RPT Date: Jul 05, 2019			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		KE
PARAMETER	Batch	Sample	Dup #1	Dup #2	RPD	Method Blank	Measured	Acce Lir	eptable nits	Recovery	Acce Lir	eptable nits	Recoverv	Acce Lir	ptable nits
		ld					Value	Lower	Upper		Lower	Upper		Lower	Upper
															
0. Reg. 153(511) - PHCs F1 - F4 (V	with PAHS a	and VOC)	(vvater)												
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:

NPopuko

AGAT QUALITY ASSURANCE REPORT (V2)

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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				REFEREN	NCE MA	TERIAL	METHOD	BLANK	SPIKE	MATRIX SPIKE		
PARAMETER	Batch	Sample	Dup #1	Dup #2	RPD	Method Blank	Measured	Acceptable Limits		Recoverv	Acce Lir	ptable nits	Recoverv	Acce Lir	ptable nits
		Id					value	Lower	Upper	,	Lower	Upper		Lower	Upper
O. Reg. 153(511) - Metals & Inorg	janics (Wa	ter)													
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%						
рН	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.





AGAT QUALITY ASSURANCE REPORT (V2)

Page 13 of 19



Method Summary

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

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

PROJECT: 665125

SAMPLING SITE: 10192 Hwy 50, Brampton, ON

AGAT WORK ORDER: 19T484919 ATTENTION TO: Robert Mitzakov 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
1,1,2,2-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: 665125

SAMPLING SITE: 10192 Hwy 50. Brampton, ON

AGAT WORK ORDER: 19T484919 ATTENTION TO: Robert Mitzakov SAMPLED BY:Sara Akib

	ampton, ett								
PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE						
Water Analysis		L	L						
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						
рН	INOR-93-6000	SM 4500-H+ B	PC TITRATE						

Chain of Custody Record If this is a Drinking Water san	Orato:	Prinking Water Chain of Custody Form	Ph: 90	Miss 5.712. vater cor	58 sissaug 5100 web	335 Coop ga, Ontari Fax: 905 bearth.aga	-2 ers Aven o L4Z 1 .712.51 atlabs.co	ue Y2 22 om	La Wa Ca Ari	abora ork Ord ooler Qa rival Te	er #: Jantity	/ Us	e 01 97	nly TY St	18 L 66	19	19 AT	TAC	- HE
Report Information: Company:		Regulatory Requirements: No Regulatory Requirement						Cu No	istody : otes:	Seal Ir	ntact:	[Yes]		No	Ē	N/A	
Contact: Address: 235 Leslie Arcet Toronto, ON Phone: Reports to be sent to: 1. Email: 2. Email:	<u></u>	Regulation 153/04 Sew Table Indicate One Ind/Com Sse Res/Park St Agriculture St Soil Texture (Check One) Indi Coarse Indi Fine MIS	Sewer Use						Turnaround Time (TAT) Required: Regular TAT 5 to 7 Business Days Rush TAT (Rush Surcharges Apply) 3 Business 2 Business Next Busine Days Days Day Day					iness					
Project Information: Project: 665125 Site Location: 10192 Huby 50, Brampton, CN Sampled Bra		Is this submission for a Record of Site Condition? Yes No Yes No					ie on alysis 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							; VI			
AGAT Quote #:	sis	Sample Matrix LegendBBiotaGWGround WaterOOilPPaintSSoilSDSedimentSWSurface Water	Field Filtered - Metals, Hg, CrVI	and Inorganics	als 🗌 153 Metals (excl. Hydrides) 🛛 😧 e Metals 🗌 153 Metals (Incl. Hydrides)	123 DE: DFOC DHg ISAR	tals Scan tion/Custom Metals	ts: DTP DNH, DTKN DN2_DN3+N02	S: NOC DETEX DTHM	1 - F4		□ Total □ Aroclors	chlorine Pesticides	M&I 🗆 VOCS 🗌 ABNS 🗍 B(a)P 🗍 PCBs	Jse				ly Hazardous or High Concentration (Y/N)
Sample Identification Date Time # Sampled Sampled Contra	of Sample iners Matrix	e Comments/ Special Instructions	Y/N	Metals	Hydrid	ORPs: Cr ⁶ , [DPH []	Full Me Regula		Volatile	PHCs F	PAHS	PCBs: [Organo	TCLP:	Sewer				Potentia
trip blank 24/06/19 5:00 pm 9	 > 								1										
Samples Relinquished By (Print Name and Sign): Samples Relinquished By (Print Name and Sign): Samples Relinquished By (Print Name and Sign): Date	Time 10 5 5 0 Time	Samples Received By (Print Name and Sign) Samples Received By (Print Name and Sign) Samples Received By (Print Name and Sign)	OH	N N				Date Sume Date	324	519 191	8	14	\$						
Samples Relinquished By (Print Name and Sign): Date	Time	Samples Received By (Print Name and Sign):					C	Date		Tim	9		N	•: Т	Page)91	03	56	

Chain of Custody Record If this is a Drinking Water sample, please	Bcoolers Ories use Drinking Water Chain of Custody Form	5835 Coopers Avenue Mississauga. Ontario L4Z 1Y2 Ph: 905.712.5100 Fax: 905.712.5122 webearth.agatlabs.com	Laboratory Use Only Work Order #: 197484919 Cooler Quantity: Arrival Temperatures:				
Report Information: Company SNC Lavalin	Regulatory Requirements: (Please check all applicable boxes)	No Regulatory Requirement	Custody Seal Intact: Yes No N/A				
Contact: Address: Address: Phone: Reports to be sent to: 1. Email: 2. Email: Reports to be sent to: Reports to be sent to: Report to	Regulation 153/04 Sew Table Indicate One Ind/Com Sa Res/Park St Agriculture Soil Texture (check One) Coarse Indicate Fine MIS.	er Use Regulation 558 nitary CCME orm Prov. Water Quality Objectives (PWQO) Tate One Indicate One	Turnaround Time (TAT) Required: Regular TAT Image: State of the system of t				
Project Information: Project: 665/25 Site Location: 0192 Huy SO Brampton, ON Sampled By: Social Ataba	Is this submission for a Record of Site Condition ?	Report Guideline on Certificate of Analysis	Please provide prior notification for rush TAT *TAT is exclusive of weekends and statutory holidays For 'Same Day' analysis, please contact your AGAT CPM				
AGAT Quote #: PO: Please note: If quotation number is not provided, client will be billed full procetor analysis. Invoice Information: Bill To Same: Yes No Company: SNC (av clin Contact: Address: Email: Payade (av SNC (ave) in. Com	Sample Matrix LegendBBiotaGWGround WaterOOilPPaintSSoilSDSedimentSWSurface Water	Field Filtered - Metals, Hg, CVI and Inorganics als [ITotal Aroclors Anorine Pesticides Monine Pesticides Multiple Pesticides				
Sample Identification Date Sampled Time Sampled # of Containers Sam Mi	mple Comments/ atrix Special Instructions	A A A A A A A A A A A A A A A A A A A	Volatile PHCs ^T F ABNs PAHs PCBs: [Organo Sewer I Sewer I				
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		2					
MW-35 34/06/19/12170M 13 MW-51A 34/06/199:40am 7 MW-511A 34/06/199:40am 6			>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>				
14w-30 any 106/19/2032m 13 14w-70 any 106/19/10:50an 13							
Samples Relinquished By (Print Name and Sign): Samples Relinquished By (Print Name and Sign): Time Tes Relinquished By (Print Name and Sign): Date Time NV-78-1513.016	Samples Received By (Print Name and Sign) Samples Received By (Print Name and Sign) Samples Received By (Print Name and Sign)	AN Date AN Date Date Date Pink Copy - Client 1 Yo	Time Page of 1me N°: T 090355 ellow Copy - AGAT White Copy- AGAT Date based Marce 22, 2019				

agai	7 Laboratories								
Sample Temperature Log									
Client: <u>SNC (AVACIN</u>	COC# or Work Order #:								
Arrival Temperatures - Branch/Driver	# of Submissions:								
Cooler #1: 7.01513171	Cooler #1: / /								
Cooler #2: $6.2 1 6.7 1 6.3$	Cooler #2: / /								
Cooler #3: 515/61/5.9	Cooler #3: / / /								
Cooler #4: / / /	Cooler #4: / / /								
Cooler #5: / /	Cooler #5: / / /								
Cooler #7: / / /	Cooler #6: / / /								
Cooler #8 / /	Cooler #7: / / /								
Cooler #9: / /	Cooler #8 / / /								
Cooler #10: / /	Cooler #10: / /								
IR Gun ID:	IR Gun ID: /								
Taken By: <u>MANOT JOHN</u> ate (yyyy/mm/dd): <u>2019/06/26</u> Time: <u>B</u> : <u>45</u> AM/PM	Taken By: Date								

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)

Document ID: SR-78-9511.003 Date Issued: 2017-2-23

Page:_____ of ____



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.

 AGAT Laboratories (V1)
 Page 1 of 12

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



AGAT 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

				0.109	
DATE RECEIVED: 2019-06-27					DATE REPORTED: 2019-07-05
	SAMPLE DES	CRIPTION:	MW-33		
		SAM	PLE TYPE:	Water	
		DATES	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	Acceptab	le Limits		
Chrysene-d12	%	50-1	40	69	

O Reg 153(511) - PAHs (Water)

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. 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.

 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 colun

 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:



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

DATE REPORTED: 2019-07-05

SAMPLED BY:Sara Akib

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

DATE RECEIVED: 2019-06-27

311532

		SAMPLE DESC	RIPTION:	MW-33
		SAMF	LE TYPE:	Water
		DATE S	AMPLED:	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	Acceptabl	e Limits	
Terphenyl	%	60-1	40	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.

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.

Extraction and holding times were met for this sample.

Analysis performed at AGAT Toronto (unless marked by *)

Linearity is within 15%.



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
	S	SAMPLE DES SAMI DATE S	CRIPTION: PLE TYPE: SAMPLED:	MW-33 Water 2019-06-27	
Parameter	Unit	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:



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

DATE RECEIVED: 2019-06-27					DATE REPORTED: 2019-07-05
	S	AMPLE DES	CRIPTION:	MW-33	
		SAM	PLE 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	Acceptab	le Limits		
Toluene-d8	% Recovery	50-	140	80	
4-Bromofluorobenzene	% Recovery	50-	140	72	

O. Reg. 153(511) - VOCs (Water)

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:



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) - Metals & Inorganics (Water)

DATE RECEIVED: 2019-06-27						DATE REPORTED: 2019-07-05
	S	AMPLE DESC	RIPTION:	MW-33	MW-51A	
		SAMP	LE TYPE:	Water	Water	
		DATE S	AMPLED:	2019-06-27	2019-06-27	
Parameter	Unit	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	
рН	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 *)

Nivine Basily

Certified By:



Page 7 of 12

Quality Assurance

CLIENT NAME: SNC LAVALIN INC PROJECT: 665125

SAMPLING SITE: 10192 Hwy 50, Brampton, ON

AGAT WORK ORDER: 19T485836 ATTENTION TO: Robert Mitzakov SAMPLED BY:Sara Akib

Trace Organics Analysis

				gam											
RPT Date: Jul 05, 2019			DUPLICATE				REFERE	NCE MA	TERIAL	METHOD	BLANK	SPIKE	MAT	RIX SPI	KE
PARAMETER	Batch	Sample	Dup #1	Dup #2	RPD	Method Blank	Measured	Acce Lir	ptable nits	Recovery	Acce Lir	ptable nits	Recovery	Acce Lir	ptable nits
		Ia					value	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%

AGAT QUALITY ASSURANCE REPORT (V1)



Quality Assurance

CLIENT NAME: SNC LAVALIN INC

PROJECT: 665125

SAMPLING SITE: 10192 Hwy 50, Brampton, ON

AGAT WORK ORDER: 19T485836 ATTENTION TO: Robert Mitzakov

SAMPLED BY:Sara Akib

Trace Organics Analysis (Continued)

	6									,					
RPT Date: Jul 05, 2019			C	DUPLICAT	E		REFERENCE MATERIAL			METHOD	BLAN	SPIKE	MAT	RIX SPI	KE
PARAMETER	Batch	Sample	Dup #1	Dup #2	RPD	Method Blank	Measured	Acce Lir	eptable nits	Recoverv	Acce	eptable nits	Recoverv	Acce Lin	ptable nits
		Id					value	Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - PHCs F1 - F4 (with PAHs a	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:

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AGAT QUALITY ASSURANCE REPORT (V1)



Quality Assurance

Water Analysia

CLIENT NAME: SNC LAVALIN INC PROJECT: 665125

SAMPLING SITE: 10192 Hwy 50, Brampton, ON

AGAT WORK ORDER: 19T485836 ATTENTION TO: Robert Mitzakov

SAMPLED BY:Sara Akib

				vvale		larys	15								
RPT Date: Jul 05, 2019			C	UPLICATI	E		REFEREN	NCE MA	TERIAL	METHOD	BLAN	(SPIKE	MAT	RIX SPI	IKE
PARAMETER	Batch	Sample	Dup #1	Dup #2	RPD	Method Blank	Measured	Acce Lir	ptable nits	Recovery	Acce	eptable nits	Recovery	Acce Lir	ptable nits
		Ia					value	Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - Metals & I	norganics (Wate	er)													
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:

Nivine Basily

AGAT QUALITY ASSURANCE REPORT (V1)

AGAT Laboratories is accredited to ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA) and/or Standards Council of Canada (SCC) for specific tests listed on the scope of accreditation. AGAT Laboratories (Mississauga) is also accredited by the Canadian Association for Laboratory Accreditation Inc. (CALA) for specific drinking water tests. Accreditations are location and parameter specific. A complete listing of parameters for each location is available from www.cala.ca and/or www.scc.ca. The tests in this report may not necessarily be included in the scope of accreditation. RPDs calculated using raw data. The RPD may not be reflective of duplicate values shown, due to rounding of final results.

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Method Summary

CLIENT NAME: SNC LAVALIN INC PROJECT: 665125

SAMPLING SITE:10192 Hwy 50, Brampton, ON

AGAT WORK ORDER: 19T485836 ATTENTION TO: Robert Mitzakov 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

PROJECT: 665125

SAMPLING SITE: 10192 Hwy 50, Brampton, ON

AGAT WORK ORDER: 19T485836 ATTENTION TO: Robert Mitzakov

PARAMETER AGA S.O.P LITERATURE REFERENCE ANALYTICAL TECHNIQUE Toluene VOL.91-5001 EPA SW-846 5030C & 82600 PRTIGCMS Entylene Dibromckionomethane VOL.91-5001 EPA SW-846 5030C & 82600 PRTIGCMS Entylene Dibromckionomethane VOL-91-5001 EPA SW-846 5030C & 82600 PRTIGCMS Intrachioroethane VOL-91-5001 EPA SW-846 5030C & 82600 PRTIGCMS Ethylenzane VOL-91-5001 EPA SW-846 5030C & 82600 PRTIGCMS Ethylenzane VOL-91-5001 EPA SW-846 5030C & 82600 PRTIGCMS Bromolorm VOL-91-5001 EPA SW-846 5030C & 82600 PRTIGCMS Styrene VOL-91-5001 EPA SW-846 5030C & 82600 PRTIGCMS Styrene VOL-91-5001 EPA SW-846 5030C & 82600 PRTIGCMS 1.4.2.2-Tartachioroethane VOL-91-5001 EPA SW-846 5030C & 82600 PRTIGCMS 1.4.3-Dichlorobenzane VOL-91-5001 EPA SW-846 5030C & 82600 PRTIGCMS 1.4.3-Dichlorobenzane VOL-91-5001 EPA SW-846 5030C & 82600 PRTIGCMS 1.4.3-Dichlorobenzane VOL-91-5001 EPA SW	SAMPLING SITE. 10192 Hwy 50, Brampto	II, ON	SAIVIFLED BT. Sai	a AKID
Toluene VOL-91-5001 EPA SW-446 5030C & 8260D (P&T)GC/MS Dibromochomethane VOL-91-5001 EPA SW-446 5030C & 8260D (P&T)GC/MS Ethylene Dibromide VOL-91-5001 EPA SW-446 5030C & 8260D (P&T)GC/MS I.1,1.2-Tartachicroethane VOL-91-5001 EPA SW-446 5030C & 8260D (P&T)GC/MS Chiorobenzene VOL-91-5001 EPA SW-446 5030C & 8260D (P&T)GC/MS Bromoform VOL-91-5001 EPA SW-446 5030C & 8260D (P&T)GC/MS Styrene VOL-91-5001 EPA SW-446 5030C & 8260D (P&T)GC/MS Bromoform VOL-91-5001 EPA SW-446 5030C & 8260D (P&T)GC/MS Styrene VOL-91-5001 EPA SW-446 5030C & 8260D (P&T)GC/MS 1.1.2.2-Tartachioroethane VOL-91-5001 EPA SW-446 5030C & 8260D (P&T)GC/MS 1.2-Dichiorobenzene VOL-91-5001	PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Dibromole VOL-91-5001 EPA SW-846 5030C & 8260D (P&T)GC/MS Ethylaen Dibromide VOL-91-5001 EPA SW-846 5030C & 8260D (P&T)GC/MS 1,1,12-Tetrachioroethane VOL-91-5001 EPA SW-846 5030C & 8260D (P&T)GC/MS Chorobenzene VOL-91-5001 EPA SW-846 5030C & 8260D (P&T)GC/MS Ehylbenzene 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 Styrene VOL-91-5001 EPA SW-846 5030C & 8260D (P&T)GC/MS -Xylene VOL-91-5001 EPA SW-846 5030C & 8260D (P&T)GC/MS -J.2bichiorobenzene VOL-91-5001 EPA SW-846 5030C & 8260D (P&T)GC/MS 1.4-Dichiorobenzene VOL-91-5001 EPA SW-84	Toluene	VOL-91-5001	EPA SW-846 5030C & 8260D	(P&T)GC/MS
Ehyleno Dibromide VDL-91-5001 EPA SW-945 6303C & 2820D (PAT)GC/MS Tetrachloroethylene VDL-91-5001 EPA SW-946 5030C & 8220D (PAT)GC/MS Chlorobenzene VDL-91-5001 EPA SW-946 5030C & 8220D (PAT)GC/MS Ehylbenzene VDL-91-5001 EPA SW-946 5030C & 8220D (PAT)GC/MS Synyene VDL-91-5001 EPA SW-946 5030C & 8220D (PAT)GC/MS 1.1.2.2-Ertrachloroethane VDL-91-5001 EPA SW-946 5030C & 8220D (PAT)GC/MS 1.3-Dichlorobenzene VDL-91-5001 EPA SW-946 5030C & 8220D (PAT)GC/MS 1.2-Dichlorobenzene VDL-91-5001 EPA SW-946 5030C & 8220D (PAT)GC/MS 1.3-Dichlorobenzene VDL-91-5001 EPA SW-946 5030C & 8220D (PAT)GC/MS 1.3-Dichlorobenzene VDL-91-5001 EPA SW-946 5030C & 8220D (PAT)GC/MS 1.4-Dichlorobenzene VDL-91-5001	Dibromochloromethane	VOL-91-5001	EPA SW-846 5030C & 8260D	(P&T)GC/MS
Tetrachloroethylene VOL-91-5001 EPA SW-846 5030C & 8260D (PAT)GC/MS 1,1,1,2-Tetrachloroethane VOL-91-5001 EPA SW-846 5030C & 8260D (PAT)GC/MS Ehrylbenzene VOL-91-5001 EPA SW-846 5030C & 8260D (PAT)GC/MS Ehrylbenzene VOL-91-5001 EPA SW-846 5030C & 8260D (PAT)GC/MS Bromoform VOL-91-5001 EPA SW-846 5030C & 8260D (PAT)GC/MS Styrene VOL-91-5001 EPA SW-846 5030C & 8260D (PAT)GC/MS 1,1,2,2-Tetrachloroethane VOL-91-5001 EPA SW-846 5030C & 8260D (PAT)GC/MS -3/bichlorobenzene VOL-91-5001 EPA SW-846 5030C & 8260D (PAT)GC/MS 1,4-Dichlorobenzene VOL-91-5001 EPA SW-846 5030C & 8260D (PAT)GC/MS 1,4-Dichlorobenzene VOL-91-5001 EPA SW-846 5030C & 8260D (PAT)GC/MS 1,2-Dichloroporpone VOL-91-5001 EPA SW-846 5030C & 8260D (PAT)GC/MS Toluene-d8 VOL-91-5001 EPA SW-846 5030C & 8260D (PAT)GC/MS Valer Analysis EPA SW-846 5030C & 8260D (PAT)GC/MS Beryllium MET-93-6103 EPA SW-846 6020A & 2	Ethylene Dibromide	VOL-91-5001	EPA SW-846 5030C & 8260D	(P&T)GC/MS
1,1,1,2-Tertrachioroethane VOL.91-5001 EPA SW-946 5030C & 8260D (PAT)GC/MS Chiorobenzene VOL.91-5001 EPA SW-946 5030C & 8260D (PAT)GC/MS Enlybbrizzene VOL.91-5001 EPA SW-946 5030C & 8260D (PAT)GC/MS Smomlorm VOL.91-5001 EPA SW-946 5030C & 8260D (PAT)GC/MS Styrene VOL.91-5001 EPA SW-946 5030C & 8260D (PAT)GC/MS Styrene VOL.91-5001 EPA SW-946 5030C & 8260D (PAT)GC/MS 1,1.2.2-Tetrachioroethane VOL.91-5001 EPA SW-946 5030C & 8260D (PAT)GC/MS 1,3-Dichiorobenzene VOL.91-5001 EPA SW-946 5030C & 8260D (PAT)GC/MS Valeer Analysis Jot.91-5001 EPA SW-946 5030C & 8260D (PAT)GC/MS Stylene Mixture VOL.91-5001 </td <td>Tetrachloroethylene</td> <td>VOL-91-5001</td> <td>EPA SW-846 5030C & 8260D</td> <td>(P&T)GC/MS</td>	Tetrachloroethylene	VOL-91-5001	EPA SW-846 5030C & 8260D	(P&T)GC/MS
Chicobenzene VOL-91-5001 EPA SW-446 6030C & 8260D (P&T)GC/MS Ethylbenzene VOL-91-5001 EPA SW-446 6030C & 8260D (P&T)GC/MS Bromoform VOL-91-5001 EPA SW-446 5030C & 8260D (P&T)GC/MS Styrene VOL-91-5001 EPA SW-446 5030C & 8260D (P&T)GC/MS 1,1.2.2-Tetrachloroethane VOL-91-5001 EPA SW-446 5030C & 8260D (P&T)GC/MS 1,3.Dichlorobenzene VOL-91-5001 EPA SW-446 5030C & 8260D (P&T)GC/MS 1,4.Dichlorobenzene VOL-91-5001 EPA SW-446 5030C & 8260D (P&T)GC/MS 1,4.Dichlorobenzene VOL-91-5001 EPA SW-446 5030C & 8260D (P&T)GC/MS 1,4.Dichloropenzene VOL-91-5001 EPA SW-446 5030C & 8260D (P&T)GC/MS 1,4.Dichloropropene VOL-91-5001 EPA SW-446 5030C & 8260D (P&T)GC/MS 1,4.Dichloropropene VOL-91-5001 EPA SW-446 5030C & 8260D (P&T)GC/MS 1,4.Dichloropropene VOL-91-5001 EPA SW-446 5030C & 8260D (P&T)GC/MS 1,4.Birdirorbenzene VOL-91-5001 EPA SW-446 5030C & 8260D (P&T)GC/MS Vater Analysis EPA SW	1,1,1,2-Tetrachloroethane	VOL-91-5001	EPA SW-846 5030C & 8260D	(P&T)GC/MS
Ehybenzene VOL-91-5001 EPA SW-446 6030C & 8260D (P&T)GCMS m & pXylene VOL-91-5001 EPA SW-446 5030C & 8260D (P&T)GCMS Styrene VOL-91-5001 EPA SW-446 5030C & 8260D (P&T)GCMS Styrene VOL-91-5001 EPA SW-446 5030C & 8260D (P&T)GCMS o.Xylene VOL-91-5001 EPA SW-446 5030C & 8260D (P&T)GCMS 1.2.2-Tetrachloroethane VOL-91-5001 EPA SW-446 5030C & 8260D (P&T)GCMS 1.4.Dichlorobenzene VOL-91-5001 EPA SW-446 5030C & 8260D (P&T)GCMS 1.4.Dichlorobenzene VOL-91-5001 EPA SW-446 5030C & 8260D (P&T)GCMS 1.4.Dichlorobenzene VOL-91-5001 EPA SW-446 5030C & 8260D (P&T)GCMS Yalene Mixture VOL-91-5001 EPA SW-446 5030C & 8260D (P&T)GCMS Toluene-d8 VOL-91-5001 EPA SW-446 5030C & 8260D (P&T)GCMS Haromationobenzene VOL-91-5001 EPA SW-446 5030C & 8260D (P&T)GCMS Barium MET-93-6103 EPA SW-446 6020A & 20.8 (CP-MS Gardiumobenzene VOL-91-5001 EPA SW-4466 6020A & 20.8	Chlorobenzene	VOL-91-5001	EPA SW-846 5030C & 8260D	(P&T)GC/MS
mk a p-Xylene VOL-91-5001 EPA SW-846 5030C & 8260D (P&T)GC/MS Bromolorm 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-Tetrachioroethane 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 1,3-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 1,2-Dichlorobenzene VOL-91-5001 EPA SW-846 5030C & 8260D (P&T)GC/MS Algene Mixture VOL-91-5001 EPA SW-846 5030C & 8260D (P&T)GC/MS Algene Mixture VOL-91-5001 EPA SW-846 5030C & 8260D (P&T)GC/MS Algene Mixture VOL-91-5001 EPA SW-846 5030C & 8260D (P&T)GC/MS Algene Mixture VOL-91-5001 EPA SW-846 5030C & 8260D (PAT)GC/MS Algene Mixture VOL-91-5001 EPA SW-846 5030C & 8260D (PAT)GC/MS Barium MET-93-6103 EP	Ethylbenzene	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-Tettachloroethane 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 1.4-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-Dichloropopene 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 Xylene Mixture VOL-91-5001 EPA SW-846 5030C & 8260D (P&T)GC/MS Chromofuorobenzene 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 VBaromofuorobenzene VOL-91-5001 EPA SW-846 6030C & 8200B (P-MS Garomo MET-93-6103 EPA SW-846 6020A & 200.8 (CP-MS Garomo MET-93-6103 EPA SW-846 6020A & 200.8<	m & p-Xylene	VOL-91-5001	EPA SW-846 5030C & 8260D	(P&T)GC/MS
Syrene 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 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 1,2-Dichlorobenzene 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 Nylene Mixture VOL-91-5001 EPA SW-846 5030C & 8260D (P&T)GC/MS Nylene Mixture VOL-91-5001 EPA SW-846 5030C & 8260D (P&T)GC/MS Haromofluorobenzene VOL-91-5001 EPA SW-846 5030C & 8260D (P&T)GC/MS Volenadis TOLena-5001 EPA SW-846 5030C & 8260D (P&T)GC/MS Vater Analysis EPA SW-846 5030C & 8260D (P&T)GC/MS EPA SW-846 5030C & 8260D (PAT)GC/MS Beryllium MET-93-6103 EPA SW-846 6020A & 200.8 (CP-MS EASM-846 6020A & 200.8	Bromoform	VOL-91-5001	EPA SW-846 5030C & 8260D	(P&T)GC/MS
11,2,2-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 1,3-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 Tollene-d8 VOL-91-5001 EPA SW-846 5030C & 8260D (P&T)GC/MS Vater Analysis Enastword & 8000 (P&T)GC/MS (P&T)GC/MS Barylium MET-93-6103 EPA SW-846 6020A & 200.8 (CP-MS Cadmium MET-93-6103 EPA SW-846 6020A & 200.8 (CP-MS Cadmium MET-93-6103 EPA SW-846 6020A & 200.8 (CP-MS Copper MET-93-6103 EPA SW-846 6020A & 200.8 (CP-MS Cobalt MET-93-6103 EPA SW-846 6020A & 200.8 (CP-MS	Styrene	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-Dichlorobenzene 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 Nylene Mixture VOL-91-5001 EPA SW-846 5030C & 8260D (P&T)GC/MS -Hexane VOL-91-5001 EPA SW-846 5030C & 8260D (P&T)GC/MS Vater Analysis EPA SW-846 6020A & 200.8 (CP-MS Barium MET-93-6103 EPA SW-846 6020A & 200.8 (CP-MS Boron MET-93-6103 EPA SW-846 6020A & 200.8 (CP-MS Cadmium MET-93-6103 EPA SW-846 6020A & 200.8 (CP-MS Cobalt MET-93-6103 EPA SW-846 6020A & 200.8 (CP-MS Cobalt MET-93-6103 EPA SW-846 6020A & 200.8 (CP-MS Coba	1,1,2,2-Tetrachloroethane	VOL-91-5001	EPA SW-846 5030C & 8260D	(P&T)GC/MS
13-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 1.3-Dichloropropene 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 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 Baryon MET-93-6103 EPA SW-846 6020A & 200.8 ICP-MS Cadmium MET-93-6103 EPA SW-846 6020A & 200.8 ICP-MS Cobalt MET-93-6103 EPA SW-846 6020A & 200.8 ICP-MS Cobalt MET-93-6103 EPA SW-846 6020A & 200.8 ICP-MS Cobalt MET-93-6103 EPA SW-846 6020A & 200.8 ICP-MS Lead MET-93-6103 EPA SW-846 6020A & 200.8 ICP-	o-Xylene	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-Dichloroponene 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 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 4-Bromofluorobenzene 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 Barium MET-93-6103 EPA SW-846 6020A & 20.0.8 ICP-MS Boron MET-93-6103 EPA SW-846 6020A & 20.0.8 ICP-MS Chromium MET-93-6103 EPA SW-846 6020A & 20.0.8 ICP-MS Cobalt MET-93-6103 EPA SW-846 6020A & 20.0.8 ICP-MS <	1,3-Dichlorobenzene	VOL-91-5001	EPA SW-846 5030C & 8260D	(P&T)GC/MS
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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 Toluene-d8 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 Water Analysis EPA SW-846 5030C & 8260D (P&T)GC/MS Barium MET-93-6103 EPA SW-846 6020A & 200.8 (CP-MS Beryllium MET-93-6103 EPA SW-846 6020A & 200.8 (CP-MS Cadmium MET-93-6103 EPA SW-846 6020A & 200.8 (CP-MS Cadmium MET-93-6103 EPA SW-846 6020A & 200.8 (CP-MS Cadmium MET-93-6103 EPA SW-846 6020A & 200.8 (CP-MS Cobalt MET-93-6103 EPA SW-846 6020A & 200.8 (CP-MS Cobalt MET-93-6103 EPA SW-846 6020A & 200.8 (CP-MS Silver MET-93-6103 EPA SW-846 6020A & 200.8 (CP-MS Silver MET-93-6103 EPA SW-846 6020A & 200.8 (CP-MS Silver MET-93-6103 EPA	1,2-Dichlorobenzene	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 1 oluene-d8 VOL-91-5001 EPA SW-846 5030C & 8260D (P&T)GC/MS 4-Bromofluorobenzene VOL-91-5001 EPA SW-846 6020A & 8200.8 (PC-MS Barium MET-93-6103 EPA SW-846 6020A & 200.8 (CP-MS Boron MET-93-6103 EPA SW-846 6020A & 200.8 (CP-MS Cadmium MET-93-6103 EPA SW-846 6020A & 200.8 (CP-MS Cadmium MET-93-6103 EPA SW-846 6020A & 200.8 (CP-MS Cadmium MET-93-6103 EPA SW-846 6020A & 200.8 (CP-MS Cobalt MET-93-6103 EPA SW-846 6020A & 200.8 (CP-MS Cobalt MET-93-6103 EPA SW-846 6020A & 200.8 (CP-MS Lead MET-93-6103 EPA SW-846 6020A & 200.8 (CP-MS Silver MET-93-6103 EPA SW-846 6020A & 200.8 (CP-MS Nickel MET-93-6103 EPA SW-846 6020A & 200.8 (CP-MS Uranium MET-93-6103	1,3-Dichloropropene	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-Bronofluorobenzene VOL-91-5001 EPA SW-846 6020A & 8200.8 (CP-MS Barium MET-93-6103 EPA SW-846 6020A & 200.8 ICP-MS Beryllum 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 Codmium MET-93-6103 EPA SW-846 6020A & 200.8 ICP-MS Cobalt MET-93-6103 EPA SW-846 6020A & 200.8 ICP-MS Cobper MET-93-6103 EPA SW-846 6020A & 200.8 ICP-MS Lead 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 Silver MET-93-6103 EPA SW-846 6020A & 200.8 ICP-MS Thallium MET-93-6103 EPA	Xylene Mixture	VOL-91-5001	EPA SW-846 5030C & 8260D	(P&T)GC/MS
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4-Bromofluorobenzene VOL-91-5001 EPA SW-846 5030C & 8260D (P&T)GC/MS Water Analysis <t< td=""><td>Toluene-d8</td><td>VOL-91-5001</td><td>EPA SW-846 5030C & 8260D</td><td>(P&T)GC/MS</td></t<>	Toluene-d8	VOL-91-5001	EPA SW-846 5030C & 8260D	(P&T)GC/MS
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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 Vanadium MET-93-6103 EPA SW-846 6020A & 200.8 ICP-MS Vanadium 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-93-6103 EPA SW-846 6020A & 200.8 ICP-MS Chromium VI INOR-93-6052 MOE METHOD CN-3015 &	Boron	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
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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 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-93-6103 EPA SW-846 6020A & 200.8 ICP-MS Chromium VI INOR-93-6014 SM 3500-Cr B SPECTROPHOTOMETER Cyanide INOR-93-6052 MOE METHOD CN- 3015 & SM 4500 TECHNICON AUTO ANALYZER Sodium MET-93-6105 E	Chromium	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 Vanadium 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-93-6103 EPA SW-846 6020A & 200.8 ICP-MS Chromium VI INOR-93-6004 SM 3500-Cr B SPECTROPHOTOMETER Cyanide INOR-93-6052 MOE METHOD CN- 3015 & SM 4500 TECHNICON AUTO ANALYZER Sodium MET-93-6105 <td< td=""><td>Cobalt</td><td>MET-93-6103</td><td>EPA SW-846 6020A & 200.8</td><td>ICP-MS</td></td<>	Cobalt	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
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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 Vanadium 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-93-6103 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 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-93-600	Lead	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-93-6103 EPA SW-846 6020A & 200.8 ICP-MS Chromium VI MOR-93-6010 EPA SW-846 6020A & 200.8 ICP-MS Cyanide INOR-93-6052 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	Molybdenum	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-93-6103 EPA SW-846 6020A & 200.8 ICP-MS Chromium VI MET-93-6100 EPA SW-846 6020A & 200.8 ICP-MS Cyanide 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	Nickel	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-93-6103 EPA SW-846 6020A & 200.8 ICP-MS Chromium VI MET-93-6100 EPA SW 846 7470 & 245.1 CVAAS Cyanide 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	Silver	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 6020A & 200.8 ICP-MS Chromium VI INOR-93-6034 EPA SW 846 7470 & 245.1 CVAAS 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	Thallium	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 6020A & 200.8 ICP-MS 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	Uranium	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	Vanadium	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	Zinc	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Chromium VIINOR-93-6034SM 3500-Cr BSPECTROPHOTOMETERCyanideINOR-93-6052MOE METHOD CN- 3015 & SM 4500 CN- ITECHNICON AUTO ANALYZERSodiumMET-93-6105EPA SW-846 6010C & 200.7ICP/OESChlorideINOR-93-6004SM 4110 BION CHROMATOGRAPHElectrical ConductivityINOR-93-6000SM 2510 BPC TITRATEpHINOR-93-6000SM 4500-H+ BPC TITRATE	Mercury	MET-93-6100	EPA SW 846 7470 & 245.1	CVAAS
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	Chromium VI	INOR-93-6034	SM 3500-Cr B	SPECTROPHOTOMETER
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	Cyanide	INOR-93-6052	MOE METHOD CN- 3015 & SM 4500 CN- I	TECHNICON AUTO ANALYZER
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	Sodium	MET-93-6105	EPA SW-846 6010C & 200.7	ICP/OES
Electrical Conductivity INOR-93-6000 SM 2510 B PC TITRATE pH INOR-93-6000 SM 4500-H+ B PC TITRATE	Chloride	INOR-93-6004	SM 4110 B	ION CHROMATOGRAPH
pH INOR-93-6000 SM 4500-H+ B PC TITRATE	Electrical Conductivity	INOR-93-6000	SM 2510 B	PC TITRATE
	рН	INOR-93-6000	SM 4500-H+ B	PC TITRATE

Chain of Custody Record If this is a Drinking Water sample	5 Mississa Ph: 905.712.5100 we lease use Drinking Water Chain of Custody Form (potable water consume	5835 Coopers Avenue buga, Ontario L4Z 1Y2 0 Fax: 905.712.5122 ebearth.agatlabs.com cooler Quantity: 1 Deurge blue Arrival Temperatures: 7.7 8.0
Report Information: Company: Contact: Robert Mitzalcov Address: 35 Lestel street Ioronto, ON 416-613-5588 Fax: Reports to be sent to: Robert Mitzalcov Oschwalin.com 1. Email: Robert Mitzalcov Oschwalin.com 2. Email: Abcd. Yassine Oschwalin.com Project Information: Project: 665125 Site Location: 10192, Hung 50, Brampton, ON	Regulatory Requirements: No Regulatory (Please check all applicable boxes) Sewer Use Regulation 153/04 Sewer Use Table Indicate One Indicate One Sanitary Indicate One Storm Resolutive Region Soil Texture (check One) Region Fine MISA Is this submission for a Report of Certificate Record of Site Condition? Yes	atory Requirement Regulation 558 CCME Prov. Water Quality Objectives (PWQO) Other Guideline on atore of Analysis S No Custody Seal Intact: Yes No Yes No Prov. Water Quality Objectives (PWQO) Other 3 Business 2 Business Days 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
Sampled By: Sampled By: 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 In Company: Contact: Address: Payable @ sucbualin, com	Sample Matrix Legend 0. Reg Biota Biota Ground Water 0 O 0il P Paint S Soil SD Sediment SW Surface Water T23 Werage Incoment	Image: Contract of the state of the stat
Sample Identification Date Sampled Time Sampled # of Container MW-33 M D7/06/19 8:15am 13 MW - 51 A 27/06/19 10:5 \am 5 Image: Sampled Image: Sampled Image: Sampled Image: Sampled Image: Sampled Date Sampled Image: Sampled Image: Sampled Image: Sampled Date Sampled Image: Sampled Image: Sampled Image: Sampled D7/06/19 10:5 \am Image: Sampled Image: Sampled Image: Sampled Image: Sampled Image: Sampled Image: Sampled Image: Sampled Image: Sampled <th>Sample Comments/ Matrix Special Instructions GW Vacs/Brex model of settiment GW</th> <th>ORPS ORPS ORPS </th>	Sample Comments/ Matrix Special Instructions GW Vacs/Brex model of settiment GW	ORPS
Samples Relinquished By (Print Name and Sign): Date Samples Relinquished By (Print Name and Sign): Date	e Samples Received By (Print Name and Sign): Samples Received By (Print Name and Sign): e Samples Received By (Print Name and Sign):	A June 17/A Time 4:52 Pro- 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.

 AGAT Laboratories (V1)
 Page 1 of 8

 Member of: Association of Professional Engineers and Geoscientists of Alberta (APEGA)
 AGAT Laboratories is accredited to ISO/IEC 17025 by the Canadian Association for Laboratory

 Accreditation Inc. (CALA) and/or Standards Council of Canada (SCC) for specific citests listed on the scope of accreditation Inc. (CALA) and/or Standards Council of Canada (SCC) for specific citests listed on the scope of accreditation Inc. (CALA) and/or Standards Council of Canada (SCC) for specific citests listed on the scope of accreditation Inc. (CALA) for specific divinking water tests. Accreditations are location and parameter specific. A complete listing of parameters for each location is available from www.cala.ca and/or www.scc.ca. The tests in this report may not necessarily be included in the scope of accreditation. Measurement Uncertainty is not taken into consideration when stating conformity with a specified requirement.

Results relate only to the items tested. Results apply to samples as received. All reportable information as specified by ISO 17025:2017 is available from AGAT Laboratories upon request



AGAT WORK ORDER: 19T531736 PROJECT: City Of Brampton Drilling & Soil Sampling

CLIENT NAME: SNC LAVALIN INC

SAMPLING SITE:

624923

ATTENTION TO: Robert Mitzakov

5835 COOPERS AVENUE MISSISSAUGA, ONTARIO CANADA L4Z 1Y2 TEL (905)712-5100 FAX (905)712-5122 http://www.agatlabs.com

SAMPLED BY:

O. Reg. 153(511) - PHCs F1/BTEX (Water)

DATE RECEIVED: 2019-10-17

-	-		
S	AMPLE DES	Trip Blank	
	SAM	Water	
	DATE	2019-10-16	
Unit	G/S	RDL	624923
µg/L		25	<25
µg/L	420	25	<25
	S Unit μg/L μg/L	SAMPLE DES SAM DATE : Unit G / S µg/L µg/L 420	SAMPLE DESCRIPTION: SAMPLE TYPE: DATE SAMPLED: Unit G / S RDL µg/L 25 µg/L 420 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.

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:



AGAT WORK ORDER: 19T531736 PROJECT: City Of Brampton Drilling & Soil Sampling

ATTENTION TO: Robert Mitzakov

SAMPLED BY:

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:

O. Reg. 153(511) - VOCs (Water)

DATE RECEIVED: 2019-10-17

DATE RECEIVED: 2019-10-17					DATE REPORTED: 2019-10-23
	S	SAMPLE DESCRIF	PTION: T	rip Blank	
		SAMPLE	TYPE:	Water	
		DATE SAM	IPLED: 2	019-10-16	
Parameter	Unit	G/S F	RDL	624923	
Dichlorodifluoromethane	µg/L	590 (0.20	<0.20	
Vinyl Chloride	µg/L	0.5 0	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	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	0.20	<0.20	
Chloroform	µg/L	2.4 0	0.20	<0.20	
1,2-Dichloroethane	µg/L	1.6 0	0.20	<0.20	
,1,1-Trichloroethane	µg/L	200 0	0.30	<0.30	
Carbon Tetrachloride	µg/L	0.79 0	0.20	<0.20	
Benzene	µg/L	5 (0.20	<0.20	
1,2-Dichloropropane	µg/L	5 (0.20	<0.20	
Frichloroethylene	µg/L	1.6 0	0.20	<0.20	
Bromodichloromethane	µg/L	16 0	0.20	<0.20	
Methyl Isobutyl Ketone	µg/L	640	1.0	<1.0	
1,1,2-Trichloroethane	µg/L	4.7 0	0.20	<0.20	
Toluene	µg/L	22 (0.20	<0.20	
Dibromochloromethane	µg/L	25 0	0.10	<0.10	
Ethylene Dibromide	µg/L	0.2 0	0.10	<0.10	
Fetrachloroethylene	µg/L	1.6 0	0.20	<0.20	
1,1,1,2-Tetrachloroethane	µg/L	1.1 (0.10	<0.10	
Chlorobenzene	µg/L	30 0	0.10	<0.10	
Ethylbenzene	µg/L	2.4 0	0.10	<0.10	
m & p-Xylene	µg/L	(0.20	<0.20	

Certified By:

Navdeep Kansera



AGAT WORK ORDER: 19T531736 PROJECT: City Of Brampton Drilling & Soil Sampling

ATTENTION TO: Robert Mitzakov

5835 COOPERS AVENUE MISSISSAUGA, ONTARIO CANADA L4Z 1Y2 TEL (905)712-5100 FAX (905)712-5122 http://www.aqatlabs.com

CLIENT NAME: SNC LAVALIN INC

SAMPLING SITE:

O. Reg. 153(511) - VOCs (Water)

DATE RECEIVED: 2019-10-17

	SA	AMPLE DES	CRIPTION:	Trip Blank
		SAM	PLE 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	Acceptab	le Limits	
Toluene-d8	% Recovery	50-2	140	106
4-Bromofluorobenzene	% Recovery	50-1	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



Page 5 of 8

Quality Assurance

CLIENT NAME: SNC LAVALIN INC

PROJECT: City Of Brampton Drilling & Soil Sampling

SAMPLING SITE:

AGAT WORK ORDER: 19T531736

ATTENTION TO: Robert Mitzakov

SAMPLED BY:

Trace Organics Analysis

		,	5		- , -										
RPT Date: Oct 23, 2019	RPT Date: Oct 23, 2019			UPLICATI	E		REFEREN	NCE MA	TERIAL	METHOD	BLANK	SPIKE	MAT	RIX SPI	KE
PARAMETER	Batch	Sample	Dup #1	Dup #2	RPD	Method Blank	Measured	Acce Lir	ptable nits	Recovery	Acce Lir	eptable nits	Recovery	Acce	ptable nits
	Baton	ld	Dap "I	B dp #2			Value	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%

AGAT QUALITY ASSURANCE REPORT (V1)



Quality Assurance

CLIENT NAME: SNC LAVALIN INC

PROJECT: City Of Brampton Drilling & Soil Sampling

SAMPLING SITE:

AGAT WORK ORDER: 19T531736

ATTENTION TO: Robert Mitzakov

SAMPLED BY:

Trace Organics Analysis (Continued)															
RPT Date: Oct 23, 2019			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recoverv	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:

Navdeep Kansera

Page 6 of 8

AGAT QUALITY ASSURANCE REPORT (V1)


Method Summary

CLIENT NAME: SNC LAVALIN INC

PROJECT: City Of Brampton Drilling & Soil Sampling

AGAT WORK ORDER: 19T531736 ATTENTION TO: Robert Mitzakov

SAMPLING SITE:		SAMPLED BY:	
PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis		1	
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

Chain of Custod	y Record If this is	a Drinking Wa	abor ter sample, p	atc	Luge Dries se Drinking Water Chaln of Custody Form	Ph: 90	Mi 05.712 water c	5 ssissau 2.5100 we onsume	835 Coopers Iga, Ontario 1 Fax: 905.71 bearth.agatla d by humans)	Avenu 4Z 1Y 2.512 bs.co	ne 22 22 m	La wa Co Ar	abor ork Orc oler Q rival Te	ator ler #: uantif	ry U: i ty: rature	se 0 କ୍ର-	nly TS	31	73	10	24
Report Information: Company: Contact: Address: Phone: Reports to be sent to: 1. Email: 2. Email: Project Information:		Regulatory Requirements: No Regulatory Requirement (Please check all applicable boxes) Sewer Use Regulation 153/04 Sewer Use Table Sanitary Indicate One Storm Agriculture Region Soil Texture (check one) Indicate One Fine MISA Is this submission for a Report Guideline on						ent	Custody Seal Intact: Yes No N/A Notes: Or W Turnaround Time (TAT) Required: Regular TAT 5 to 7 Business Days Rush TAT (Rush Surcharges Apply) 3 Business 2 Business Days Days Day OR Date Required (Rush Surcharges May Apply):												
Project: Site Location: Sampled By: AGAT Quote #: Please not Invoice Information: Company: Contact: Address: Email: Email:	Brankten Pilling 1450 Brankten PO: 6 En PO: 6 PO: 7 PO: 7 P	Good Son 2N (5125 iill be billed full price Bill To Same: Good Son	(Sumphi toranaiysis. Mes I No Explin		Record of Site Condition? Yes No Sample Matrix Legend No B Biota GW Ground Water O Oil P Paint S Soil SD Sediment SW Surface Water	Field Filtered - Metals, Hg, CrVI	Cer sand luorganics	de Metals 🗆 153 Metals (excl. Hydrides) O. O. de Metals 🗆 153 Metals (Incl. Hydrides)	TEC OF OLD CN TEC DFOC DHg TS3AR CN TS3 TS3AR TS3 TS3AR T	ation/Custom Metals	DNA; C TP C NH, C TKN C NO ₂ C NO ₃ +NO2	es: D VOC DBTEX D THM	F1 - F4	Plea AT is e	ase preexclus	ocylorine Pesticides	prior f week	ase co	ation for and statu ntact yo	rush i tory h ur AG	TAT olidays AT CPM
Sample Identificati	on Date Sampled	Time Sampled	# of Containers	Sampl Matrix	le Comments/ x Special Instructions	Y/N	Metal	Hydri		Regula		Volatil	BHCs -	ABNS		Organ		Sewer	XFL		Potentia
Samples Relinquished By (Print Name and Sign) Samples Relinquished By (Print Name and Sign) Samples Relinquished By (Print Name and Sign)	1 A	Date Date Date Date	19 Time	e e	Samples Received By (Print Name and Sign) Samples Received By (Print Reme and Sign): Samples Received By (Print Name and Sign):	2				Dan Dan Dan	<i>F/17</i>	z/mg	Time	+ <u></u> , 2	5		•: T	Page	360	of	2



Page 1 of 14

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.

AGAT Laboratories (V2)

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

Results relate only to the items tested. Results apply to samples as received. All reportable information as specified by ISO 17025:2017 is available from AGAT Laboratories upon request



AGAT WORK ORDER: 19T533749 PROJECT: City of Brampton - 665125

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CLIENT NAME: SNC LAVALIN INC

SAMPLING SITE:

ATTENTION TO: Robert Mitzakov

SAMPLED BY:

O. Reg. 153(511) - PAHs (Water)									
DATE RECEIVED: 2019-10-22					DATE REPORTED: 2019-10-29				
		SAMPLE DESC	CRIPTION:	MW-74					
		SAMF	PLE TYPE:	Water					
		DATE S	SAMPLED:	2019-10-22					
Parameter	Unit	G/S	RDL	640953					
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					
luorene	µg/L	120	0.20	<0.20					
Phenanthrene	µg/L	1	0.10	<0.10					
Anthracene	µg/L	1	0.10	<0.10					
luoranthene	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					
ndeno(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	Acceptab	le Limits						
Chrysene-d12	%	50-1	40	106					

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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. 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.

 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 colun

 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:

NPopukolof

5835 COOPERS AVENUE

MISSISSAUGA, ONTARIO

http://www.agatlabs.com

CANADA L4Z 1Y2

TEL (905)712-5100 FAX (905)712-5122



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

SAMPLING SITE:

ATTENTION TO: Robert Mitzakov

SAMPLED BY:

O. Reg. 153(511) - PHCs F1 - F4 (-BTEX) (Water)

DATE RECEIVED: 2019-10-22

	Ş	SAMPLE DESC	RIPTION:	MW-75	MW-755	Field Blank	
		SAMPL	E TYPE:	Water	Water	Water	
		DATE SA	AMPLED:	2019-10-22	2019-10-22	2019-10-22	
Parameter	Unit	G/S	RDL	640955	640959	640960	
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	%	60-14	0	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 nC34.

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:

NPopukoloj

DATE REPORTED: 2019-10-29



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.aqatlabs.com

CLIENT NAME: SNC LAVALIN INC

SAMPLING SITE:

640953

ATTENTION TO: Robert Mitzakov

SAMPLED BY:

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

DATE RECEIVED: 2019-10-22

		SAMPLE DESCR	IPTION:	MW-74
		SAMPL	E TYPE:	Water
		DATE SA	MPLED:	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.

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.

Extraction and holding times were met for this sample.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:

NPopukoloj

DATE REPORTED: 2019-10-29

Linearity is within 15%.



AGAT WORK ORDER: 19T533749 PROJECT: City of Brampton - 665125

O. Reg. 153(511) - VOCs (Water)

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:

ATTENTION TO: Robert Mitzakov

SAMPLED BY:

DATE RECEIVED: 2019-10-22							DATE REPORTED: 2019-10-29
		SAMPLE DESCRIPTIO	N: MW-74	MW-75	MW-755	Field Blank	
		SAMPLE TYP	E: Water	Water	Water	Water	
		DATE SAMPLE	D: 2019-10-22	2019-10-22	2019-10-22	2019-10-22	
Parameter	Unit	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:

NPopukolof



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.aqatlabs.com

CLIENT NAME: SNC LAVALIN INC

SAMPLING SITE:

ATTENTION TO: Robert Mitzakov

SAMPLED BY:

				-		-	-	
DATE RECEIVED: 2019-10-22								DATE REPORTED: 2019-10-29
	5	SAMPLE DES	CRIPTION:	MW-74	MW-75	MW-755	Field Blank	
		SAM	PLE TYPE:	Water	Water	Water	Water	
		DATES	SAMPLED:	2019-10-22	2019-10-22	2019-10-22	2019-10-22	
Parameter	Unit	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	Acceptab	le Limits					
Toluene-d8	% Recovery	50-1	140	90	103	103	105	
4-Bromofluorobenzene	% Recovery	50-1	140	87	96	99	88	

O. Reg. 153(511) - VOCs (Water)

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:

NPopukolof



AGAT WORK ORDER: 19T533749 PROJECT: City of Brampton - 665125

CLIENT NAME: SNC LAVALIN INC

SAMPLING SITE:

ATTENTION TO: Robert Mitzakov

SAMPLED BY:

O. Reg. 153(511) - Metals & Inorganics (Water)

		SAMPLE DESC		WIVV-74
		SAMF	'LE TYPE:	Water
_		DATE S	SAMPLED:	2019-10-22
Paramete	Unit	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
ead	µg/L	10	0.5	<0.5
Vlolybdenum	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
Fhallium	µg/L	2	0.3	<0.3
Jranium	µg/L	20	0.5	4.3
/anadium	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	µa/L	52	2	<2
Sodium	µg/L	490000	500	13400
Chloride	µa/L	790000	500	39000
Electrical Conductivity	uS/cm		2	818
эH	pH Units	6	NA	7.90
	1			

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. 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 *)

640953

Certified By:

Jacky 2th

DATE REPORTED: 2019-10-29

5835 COOPERS AVENUE

MISSISSAUGA, ONTARIO

http://www.agatlabs.com

CANADA L4Z 1Y2

TEL (905)712-5100 FAX (905)712-5122



Page 8 of 14

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 DUPLICATE REFERENCE MATERIAL METHOD BLANK SPIKE RPT Date: Oct 29, 2019 MATRIX SPIKE Method Acceptable Acceptable Acceptable Sample Maggurad Blank Limits Limits Limits PARAMETER Batch Dup #1 Dup #2 RPD Recovery Recovery Value Id Lower Upper Lower Upper Lower Upper O. Reg. 153(511) - PAHs (Water) τw 104% 140% Naphthalene < 0.20 < 0.20 NA 50% 140% 83% 140% 80% 50% < 0.20 50% Acenaphthylene τw 140% < 0.20 < 0.20 NA < 0.20 102% 50% 140% 83% 50% 140% 78% 50% Acenaphthene ΤW < 0.20 < 0.20 NA < 0.20 101% 50% 140% 81% 50% 140% 75% 50% 140% Fluorene ΤW < 0.20 < 0.20 NA < 0.20 98% 50% 140% 82% 50% 140% 77% 50% 140% ΤW < 0.10 < 0.10 82% 50% 140% 73% 140% 74% 50% 140% Phenanthrene NA < 0.10 50% ΤW < 0.10 < 0.10 107% 50% 140% 84% 140% 82% 50% 140% Anthracene NA < 0.10 50% Fluoranthene ΤW < 0.20 < 0.20 NA < 0.20 97% 50% 140% 74% 50% 140% 71% 50% 140% Pyrene ΤW < 0.20 < 0.20 NA < 0.20 97% 50% 140% 71% 50% 140% 77% 50% 140% 50% Benz(a)anthracene ΤW < 0.20 < 0.20 NA < 0.20 81% 50% 140% 70% 140% 78% 50% 140% ΤW < 0.10 75% 140% 140% < 0.10 NA < 0.10 104% 50% 140% 50% 78% 50% Chrysene ΤW Benzo(b)fluoranthene < 0.10 88% 140% 89% 140% 140% < 0.10NA < 0.1050% 50% 75% 50% τw Benzo(k)fluoranthene < 0.10 99% 50% 113% 140% 92% 50% 140% < 0.10 NA < 0.10 140% 50% ΤW 140% Benzo(a)pyrene < 0.01 < 0.01 NA < 0.01 105% 50% 140% 83% 50% 140% 102% 50% ΤW Indeno(1,2,3-cd)pyrene < 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 ΤW < 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) < 25 F1 (C6-C10) 627432 < 25 NA < 25 104% 60% 140% 110% 60% 140% 92% 60% 140% F2 (C10 to C16) ΤW < 100 99% 60% 140% 90% 140% 92% 140% < 100 NA < 100 60% 60% F3 (C16 to C34) ΤW 140% < 100 < 100 NA < 100 110% 60% 140% 107% 60% 140% 87% 60% F4 (C34 to C50) ΤW < 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 140% 640960 < 0.20 < 0.20 NA < 0.20 86% 50% 140% 96% 50% 140% 87% 50% 140% Trichlorofluoromethane 640960 640960 < 0.40 < 0.40 < 0.40 91% 50% 105% 140% 106% 50% NA 140% 50% 640960 640960 107% 50% 104% 140% 118% 50% 140% Acetone NA < 1.0 140% 50% < 1.0 < 1.0 79% 1,1-Dichloroethylene 640960 640960 < 0.30 83% 130% 92% 50% 140% < 0.30 NA < 0.30 50% 140% 60% Methylene Chloride 140% 640960 640960 < 0.30 < 0.30 NA < 0.30 90% 50% 140% 107% 60% 130% 90% 50% 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 84% 50% 140% 89% 130% 96% 50% 140% < 0.30 NA < 0.30 60% Methyl Ethyl Ketone 640960 640960 < 1.0 < 1.0 NA < 1.082% 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 130% 140% 640960 640960 < 0.20 < 0.20 NA < 0.20 110% 50% 140% 113% 60% 117% 50% 640960 640960 130% 95% 50% 140% 1.1.1-Trichloroethane < 0.30 < 0.30 NA < 0.30 94% 50% 140% 81% 60% Carbon Tetrachloride 640960 640960 < 0.2081% 50% 140% 86% 60% 130% 81% 50% 140% < 0.20NA < 0.20

AGAT QUALITY ASSURANCE REPORT (V2)

AGAT Laboratories is accredited to ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA) and/or Standards Council of Canada (SCC) for specific tests listed on the scope of accreditation. AGAT Laboratories (Mississauga) is also accredited by the Canadian Association for Laboratory Accreditation Inc. (CALA) for specific drinking water tests. Accreditations are location and parameter specific. A complete listing of parameters for each location is available from www.cala.ca and/or www.scc.ca. The tests in this report may not necessarily be included in the scope of accreditation. RPDs calculated using raw data. The RPD may not be reflective of duplicate values shown, due to rounding of final results.



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			C	UPLICAT	E		REFERE	NCE MA	TERIAL	METHOD	BLAN	K SPIKE	MATRIX SPIKE		
PARAMETER	Batch	Sample	Dup #1	Dup #2	RPD	Method Blank	Measured	Acce Lir	ptable nits	Recovery	Acce	eptable nits	Recovery	Acce Lir	ptable nits
		iù					value	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:

NPopukot

AGAT QUALITY ASSURANCE REPORT (V2)

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AGAT Laboratories is accredited to ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA) and/or Standards Council of Canada (SCC) for specific tests listed on the scope of accreditation. AGAT Laboratories (Mississauga) is also accredited by the Canadian Association for Laboratory Accreditation Inc. (CALA) for specific drinking water tests. Accreditations are location and parameter specific. A complete listing of parameters for each location is available from www.cala.ca and/or www.scc.ca. The tests in this report may not necessarily be included in the scope of accreditation. RPDs calculated using raw data. The RPD may not be reflective of duplicate values shown, due to rounding of final results.



Quality Assurance

CLIENT NAME: SNC LAVALIN INC

PROJECT: City of Brampton - 665125

SAMPLING SITE:

AGAT WORK ORDER: 19T533749

ATTENTION TO: Robert Mitzakov

SAMPLED BY:

				Wate	er Ar	nalys	is									
RPT Date: Oct 29, 2019			C	UPLICAT	E		REFERENCE MATER			METHOD	IETHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample	Dup #1	Dup #2	RPD	Method Blank	Measured	Acce Lir	ptable nits	Recovery	Acce Lir	eptable mits	Recovery	Acce Lir	ptable nits	
		Ia					value	Lower	Upper		Lower	Upper		Lower	Upper	
O. Reg. 153(511) - Metals & Inorg	anics (Wat	ter)														
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%							
рН	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:

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AGAT QUALITY ASSURANCE REPORT (V2)

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Method Summary

CLIENT NAME: SNC LAVALIN INC

PROJECT: City of Brampton - 665125

AGAT WORK ORDER: 19T533749 ATTENTION TO: Robert Mitzakov SAMPLED BY:

SAMPLING SITE:		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

PROJECT: City of Brampton - 665125

AGAT WORK ORDER: 19T533749 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	D (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

AGAT WORK ORDER: 19T533749 ATTENTION TO: Robert Mitzakov

SAMPLING SITE:		SAMPLED BY:							
PARAMETER	AGAT S.O.P LITERATURE REFERENCE ANALYTICAL TECHNIQUE MET-93-6103 EPA SW-846 6020A & 200.8 ICP-MS MET-93-6103 EPA SW-846 6020A & 200.8 ICP-M								
Water Analysis	I	1							
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						

Laborato				ato	5835 Coopers Avenue Mississauga, Ontario L4Z 1Y2 Ph: 905.712.5100 Fax: 905.712.5122 webearth.agatlabs.com						ue Y2 22	Laboratory Use Only Work Order #: 197533749 Cooler Quantity:											
Chain of C	Custody Rec	ord If this is a	a Drinking Wat	er sample, p	lease use	Drinking Water Chain of Custody Form	ootable v	water co	onsume	d by humar	S)		A	rrival	ſemp	eratu	res:	-	0		q		-
Report Information: Company: SNC-Lackin			Regulatory Requirements: No Regulatory Requirement (Please check all applicable boxes)						Custody Seal Intact: Yes No N/A Notes:														
Contact: Address:	195 The West Hall starte ov Mgc 5kl			Image: Constraint of the second se					Turnaround Time (TAT) Required: Regular TAT 5 to 7 Business Days														
Phone: Reports to be sent to: 1. Email: Reports to be sent to: Reports to		<u></u>	Cartes/Park Storm Prov. Water Quality Agriculture Objectives (PWQO) Soil Texture (check One) Region					Rush TAT (Rush Surcharges Apply) 3 Business Days 2 Business Days Days Days															
2. Email:					= ,	Fine MISA	1		-	Indicate	One	-			OR D	ate R	Requi	red (R	Rush S	urcharge	s May Apr));	
Project Information: Project: City of Boundary 50, Bound			Record of Site Condition?	Report Guideline on Certificate of Analysis						Please provide prior notification for rush TAT *TAT is exclusive of weekends and statutory holidays													
Sampled By: AGAT Quote #:	Please note: If quotation nu	PO: mber is not provided, client w	525 ill be billed full price	for analysis		Sample Matrix Legend	CrVI	-	O. Reg	153			-		ame	Day	anai	ysis,		Contact	your Ada	Sont -	(N/N) uo
Invoice Inform Company: Contact: Address: Email:	Rayablis @Sna	elu la	Bill To Same:	Yes 🗌 No		Gw Ground Water 0 Oil P Paint S Soil SD Sediment SW Surface Water	Field Filtered - Metals, Hg	and Inorganics	als	JB-HWS CICI CICN- JEC CIFOC CIHg SAR	als Scan	S: TTP DNH ₃ DTKN	: DVOC DBTEX DTHM	- F4			Total Daroclors	hlorine Pesticides	ଏଝା 🗆 vocs 🗔 ABNs 🗍 B(a) ଜନ	le bunde	Welcar Chronie	FI-H-H/DIDY	v Hazardous Son High Concentra
Samp	le Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	e Comments/	Y/N	Metals a	All Meta		Full Met		Volatiles	PHCs F1	ABNs	PAHs	PCBs:	Organoc	TCLP: C	Acta	Hard	UE	Potentially
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235 Lesmill Rd. Toronto, Ontario, Canada M3B 2V1 416-635-5882 www.snclavalin.com