Phase Two Environmental Site Assessment
Part Lot 9, RCP 1542
Parts 6, 7, and 9, Plan 43R37503
Ninth Line
Mississauga, Ontario

St. Mark and St. Demiana Coptic Orthodox Church
462 Falgarwood Drive
Oakville, ON L6H 1N3

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-	May 11, 2022	Initial Submission to Client
1	May 24, 2022	Final version, signed, stamped.

R.J. Burnside & Associates Limited

Report Prepared By:

Kathleen Langstaff, B.Sc., P.Geo., QP_{ESA}
Senior Geoscientist

Executive Summary

R.J. Burnside & Associates Limited (Burnside) was retained by St. Mark and St. Demiana Coptic Orthodox Church to conduct a Phase Two Environmental Site Assessment (ESA) of the property described as Part of Lot 9, RCP 1542, Parts 6, 7, and 9, Plan 43R37503, Ninth Line, Mississauga, Ontario (the "Site").

The Phase Two ESA was completed in accordance with Ontario Regulation (O. Reg.) 153/04, as amended, and Canadian Standards Association (CSA) Standard Z769-00.

The purpose of the Phase Two ESA is to support a proposed development with an application to the City of Mississauga to amend the Zoning By-law to permit construction of a church (place of religious assembly) and a community services building.

The Site is 3.93 hectares (9.71 acres) of land situated east of Ninth Line and south of Burnhamthorpe Road West. The majority of the Site is vacant, cultivated farmland (Agricultural and Other Use). At the south end of the Site is a gravel driveway and parking area which extends to a temporary structure (Quonset hut) for storing wood.

Samples of soil and groundwater (including duplicate samples) were collected from the Site and submitted for laboratory analysis of contaminants of potential concern such as:

- Petroleum Hydrocarbons (PHCs);
- Benzene, Toluene, Ethylbenzene and Xylenes (BTEX);
- Polycyclic Aromatic Hydrocarbons (PAHs);
- Polychlorinated Biphenyls (PCBs);
- Volatile Organic Compounds (VOCs);
- Semi-volatile Organic Compounds (SVOCs);
- Organochlorine Pesticides; and
- Metals and Inorganics.

Soil and groundwater analytical results were compared to the applicable Ministry of the Environment, Conservation and Parks (MECP) property use site condition standards for the proposed development, Institutional Use (church) and Community Use (community centre), listed in *Table 2: Full Depth Generic Site Condition Standards in a Potable Groundwater Condition* from the document *Soil, Ground Water and Sediment Standards for Use under Part XV.1 of the Environmental Protection Act.*

All parameters tested in the soil and groundwater samples were within the applicable standards listed in MECP Table 2 SCS for Institutional Use and Community Use.

The Phase Two ESA results indicate soil and groundwater quality at the Site are suitable for the proposed development property uses Institutional Use and Community Use, as defined in O. Reg. 153/04.

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1.0 Introduction

R.J. Burnside & Associates Limited (Burnside) was retained by St. Mark and St. Demiana Coptic Orthodox Church to conduct a Phase Two Environmental Site Assessment (ESA) of the property described as Part of Lot 9, RCP 1542, Parts 6, 7, and 9, Plan 43R37503, Ninth Line, Mississauga, Ontario (the "Site").

The purpose of the Phase Two ESA is to support an application to the City of Mississauga to amend the Zoning By-law.

The Site is 3.93 hectares (9.71 acres) of land situated east of Ninth Line and south of Burnhamthorpe Road West (Figure 1). For the purposes of this report, project north is northwest toward Burnhamthorpe Road, with Ninth Line running north-south. Figure 1 shows the Site location. Figure 2 shows the Site boundary and surrounding area.

The majority of the Site is vacant, cultivated farmland (Agricultural and Other Use). At the south end of the Site is a gravel driveway and parking area which extends to a temporary structure (Quonset hut) that's used for storing wood. A Phase One ESA that was completed in 2019, recommended a Phase Two ESA be conducted to assess soil and groundwater quality in Areas of Potential Environmental Concern (APECs).

1.1 Registered Owner and Property Information

The Site consists of a single parcel with a Property Identification Number (PIN). Property information is summarized in Table 1.

Table 1: Property Information

Address	Part of Lot 9, RCP 1542, Parts 6, 7, and 9, Plan 43R37503, Ninth Line, Mississauga, Ontario
PIN	13413-0112 (LT)
Legal Description	PART OF LOT 9, RCP 1542, BEING PARTS 6, 7 AND 9 ON PLAN 43R-37503; TOGETHER WITH AN EASEMENT OVER PART LOT 9, RCP 1542, BEING PARTS 4 & 5, PLAN 43R37503 AS IN PR3122861; SUBJECT TO AN EASEMENT OVER PARTS 6 & 7, PLAN 43R37503 IN FAVOUR OF PART LOT 9, RCP 1542, BEING PARTS 1,2,3,4,5 & 8, PLAN 43R37503 AS IN PR3122861; CITY OF MISSISSAUGA
Owner	The Erin Mills Development Corporation
Roll Number	05-15-0-010-00233-0000

The parcel register and a map showing the parcel boundary are provided with other property documents in Appendix A. The Site boundary is also shown on Figure 3.

1.2 Survey

The legal description of the Site refers to Plan 43R37503 which is a Plan of Survey prepared in 2016 and signed by S.Sinnis, Ontario Land Surveyor. Plan 43R37503 is provided in Appendix B.

1.3 Client Contact Information

Contact information for the client and the Owner are listed in below:

Table 2: Client and Owner Contact Information

Developer Representative: Mr. Moheb Michael St. Mark and St. Demiana Coptic Orthodox Church	Phone: 416-888-8843 Email: mohebmichael@rogers.com
Owner Representative: Mr. Frank Gasbarre The Erin Mills Development Corporation 2300 Steeles Avenue West, Suite 220 Concord, Ontario L4K 5X6	Phone:416-736-1809 Email: f.gasbarre@erinmillsdev.com

1.4 Background

The Site and surrounding area have been used for agricultural purposes since the late 1800's. Sometime after 1984, the southeast part of the property was used for storing vehicles and equipment, and a temporary structure (Quonset hut) was placed on the Site as a shelter for wood storage.

At the south end of the Site, there is a gravel driveway and parking area which extends to a temporary structure (Quonset hut) used for storing wood. The remainder of the Site is vacant, cultivated land used for agricultural purposes. The Site has a municipal address of 0 Ninth Line and is classified as Commercial/Farmland (Figure 2).

The Site is proposed for development as a church for the St. Mark and St. Demiana Coptic Orthodox Church. The proposed development will be completed in 2 phases:

- Phase 1 would be construction of a church building and required adequate parking spaces, with the north side of the Site reserved for the onsite wastewater system and stormwater management pond.
- Phase 2 will include a community center and additional parking spaces, once municipal services along Ninth Line are in place to allow the connection to the sanitary system.

Property information obtained online from the City of Mississauga website is provided in Appendix C.

2.0 Physical Setting

2.1.1 Topography and Drainage

A berm along the east / northeast boundary has an elevation of 185 m above sea level (asl). The topography slopes down to the southwest boundary where the elevation is approximately 178 m asl. The Site is in the West Lake Ontario Shoreline Watershed which drains into Lake Ontario, approximately 8 km south of the Site. There are no water bodies on the Site. There is a tributary to Joshua's Creek, 120 m west of the Site. There are no wetlands on the Site. The North Oakville-Milton East Wetland Complex Provincially Significant Wetland (PSW) is 100 m south of the Site.

Ontario Geological Survey mapping describes surficial soil as silty clay till. Bedrock in the area is red shale of the Queenston Formation.

3.0 Scope of Investigation

The Phase Two ESA was conducted in accordance with O. Reg. 153/04, as amended, and Canadian Standards Association (CSA) Standard Z769-00.

The following describes the steps conducted for the Phase Two ESA investigation:

- Prepared a Health and Safety Plan.
- Completed utility locates through Ontario One Call and a private locator.
- Drilled boreholes to examine subsurface conditions and collected soil samples.
- Installed a groundwater monitoring well to increase the number of wells to four.
- Measured static water levels to interpret the direction of groundwater flow.
- Collected groundwater samples from the four groundwater monitoring wells for analysis of contaminants of potential concern.
- Compared analytical results to applicable site condition standards.
- Prepared a Phase Two ESA report.

3.1 Applicable Site Condition Standards

The applicable site condition standards to evaluate the Site were determined by selecting the applicable Ministry of the Environment, Conservation and Parks (MECP) property uses defined in O. Reg. 153/04:

1. Agricultural or Other Use.
2. Commercial Use.
3. Community Use.
4. Industrial Use.
5. Institutional Use.
6. Parkland Use.
7. Residential Use

The majority of the Site is cultivated farmland (Agricultural or Other Use). At the south end of the Site, there is a gravel driveway and parking area extending to a temporary structure (Quonset hut) that is used for storing wood.

The applicable site condition standards for the Phase Two ESA were selected based on the proposed 2-phase development plans for the Site:

1. Construction of a church building with required parking spaces, an onsite wastewater system, and stormwater management pond.
   - The MECP property use category for a church is Institutional Use (O. Reg. 153/04, building used for indoor gathering of people for religious purposes). Institutional Use is in the same soil quality category as Residential Use and Parkland Use.
2. Construction of a community center and additional parking spaces, once a municipal service connection to the sanitary sewer system is available along Ninth Line.
   - The MECP property use category for a community centre is Community Use (O. Reg. 153/04, building used for indoor recreational activities). Community Use is in the same soil quality category as Industrial Use and Commercial Use.

A particle size sieve analysis was conducted on soil samples to determine the applicable soil texture category for site characterization.

The applicable site condition standards to evaluate soil and groundwater quality at the Site for the proposed development are the soil and groundwater standards for Institutional Use and Community Use listed in *Soil, Ground Water and Sediment Standards for Use under Part XV.1 of the Environmental Protection Act, Table 2: Full Depth Generic Site Condition Standards in a Potable Groundwater Condition* (MECP Table 2 SCS) for medium and fine textured soil.

3.2 Site Servicing

The proposed development at the Site will receive municipal water supply from the Region of Peel.

Wastewater services are not currently available in this area. As such, the development will include a private subsurface sewage dispersal system. As the daily design flow is greater than 10,000 L/day, an Environmental Compliance Approval (ECA) will be required from the MECP

3.3 Impediments

There were no Site access issues or other physical impediments encountered during this sampling investigation.

3.4 Media Investigated

Soil and groundwater samples were collected to assess soil and groundwater quality at the Site for the potential presence of contaminants of potential concern.

3.5 Areas of Potential Environmental Concern

Samples were collected in Areas of Potential Environmental Concern (APECs) identified by the Phase One ESA:

- APEC 1 - Former aboveground storage tanks were beside Quonset hut.
- APEC 2 - Vehicles and equipment stored at south end of the Site.
- APEC 3 - Pile of debris and waste items were on north side of Quonset hut.
- APEC 4 - Soil berm beside Highway 403, extends along east boundary.
- APEC 5 - Cultivated agricultural farmland on central and north portion of Site.

Boreholes and groundwater monitoring well locations are shown on Figure 4.

4.0 Investigative Method

4.1 Drilling Program

The Phase Two ESA drilling program was conducted on March 8, 2022, to examine subsurface conditions, collect soil samples, and install a groundwater monitoring well.

The drilling contractor CMT Drilling Inc. advanced four boreholes with a 7822 DT Geoprobe direct push drill rig using the Macrocore MC5 dual tube sampling system. Specialized one-time use core sampling tubes constructed of clear PVC were used to recover continuous core soil samples in 1.5 m (5 ft.) lengths. This method of sampling prevents cross contamination as the soil sample is isolated within the PVC casing.

Boreholes depths ranged from 2.3 m (7.5 feet) to 4.27 m (15 feet) below ground surface (bgs). Each recovered soil sample was examined for evidence of contamination (staining and odour) using visual and olfactory cues.

Borehole BH-8 was equipped with a groundwater monitoring well (MW8) to collect groundwater samples at the south end of the Site in APEC-2.

The rationale for each borehole and monitoring well location is provided in Table 3. Figure 4 shows the borehole and groundwater monitoring well locations. Borehole logs are provided in Appendix D. Photographs are provided in Appendix E.

Table 3: Borehole/Monitoring Well Rationale

BH/MW	Location	Rationale
BH1-B and MW1	north part of the Site	assess soil and groundwater quality in cultivated, agricultural field.
BH5-B and MW5	west side of the Site	assess soil and groundwater in agricultural field downgradient from former fuel storage
BH6-B and MW6	east side of the Site	assess soil and groundwater near former fuel storage tanks and debris east side.
BH8 and MW8	south part of the Site	assess soil and groundwater downgradient from equipment and former fuel storage

4.2 Field Screening

Field screening was conducted by examining soil samples for evidence of environmental concerns using visual and olfactory cues, and noting signs of staining, sheen, or unusual odours. In addition, soil samples were placed in sealable bags and screened for the presence of VOC vapours using a portable photo Ionization detector (PID).

4.3 Soil Sampling

Soil samples were collected in accordance with the MECP's 1996 Sampling Guide "*Guidance on Sampling and Analytical Methods for Use at Contaminated Sites in Ontario*" and Burnside's Standard Operating Procedures (SOPs).

Soil samples were selected for laboratory analysis based upon field screening results, in the vicinity of the soil/water interface, or, in the absence of any "targeting rationale", on the basis of at least one sample per borehole. Soil samples were placed in laboratory supplied jars and submitted to AGAT Laboratories for analysis of contaminants of potential concern such as:

- Petroleum Hydrocarbons (PHCs);
- Benzene, Toluene, Ethylbenzene and Xylenes (BTEX);
- Polycyclic Aromatic Hydrocarbons (PAHs);
- Polychlorinated Biphenyls (PCBs);
- Volatile Organic Compounds (VOCs);
- Semi-volatile Organic Compounds (SVOCs), which are the same as base/neutral/acid extractables (BNAE);
- Organochlorine Pesticides; and
- Metals and Inorganics.

Table 4 lists soil samples collected from each borehole, analytical parameters, and sample depths.

Table 4: Soil Sampling Depths and Analytical Parameters

Sample ID	Parameters Tested	Sample Depth (m)	
		From	To
BH1-B	PHC F1-F4	3.2	3.4
	VOC	3.2	3.4
	METALS & INORGANICS	2.0	2.2
	PCBs	0.3	0.5
	PAHs	0.8	1.0
	SVOC	1.0	1.2
	OC PESTICIDES	0.3	0.5
	GRAIN SIZE & MOISTURE	4.4	4.6
BH5-B	PHC F1-F4	4.6	4.8
	VOC	4.6	4.8
	METALS & INORGANICS	4.2	4.4
	PCBs	0.3	0.5
	PAHs	0.5	0.7
	SVOC	0.8	1.0
	OC PESTICIDES	0.3	0.5
BH6-B	PHC F1-F4	5.6	5.8
	VOC	5.6	5.8
	METALS & INORGANICS	2.8	3.0
	PCBs	0.8	1.0
	PAHs	1.0	1.2
	SVOC	3.8	4.0
	OC PESTICIDES	0.8	1.0
BH8	PHC F1-F4	5.1	5.4
	VOC	5.1	5.4
	METALS & INORGANICS	1.7	1.9
	PCBs	0.5	0.7
	PAHs	0.3	0.5
	SVOC	1.1	1.3
	OC PESTICIDES	0.5	0.7
	GRAIN SIZE & MOISTURE	6.5	6.7

4.4 Monitoring Well Installation

Three groundwater monitoring wells were installed at the Site in 2020 to measure static groundwater levels and to permit the collection of groundwater samples. A fourth monitoring well was installed on March 8, 2022 at APEC-2 at the south end of the Site. The well was constructed of 3.81 cm (1.5 inch) diameter PVC pipe.

Well screens in each well had been placed at an adequate depth to straddle the groundwater table (soil/water interface). Plastic casing (risers) extend from the screens to ground surface. The space between the screen and the borehole wall (annulus) was backfilled with sand. A bentonite seal was then placed above the sand pack to ground surface. Flush-mount metal casings were placed over each well for protection. Details for the monitoring wells are included in Appendix D.

4.5 Static Groundwater Levels

Prior to sampling, static groundwater levels were measured at each monitoring well (MW6 to MW8). Static water level measurements and elevations are listed in Table 5.

Table 5: Static Water Elevations

Monitoring Well	Well Screens	Static Water Level (m bgs)	Static Water Elevation (m asl)
MW1	5.79 to 7.62 m	1.64	178.79
MW5	5.18 to 6.71 m	0.02	178.65
MW6	6.10 to 7.62 m	4.30	178.45
MW8	4.57 to 7.62 m	2.76	178.51

m asl = metres above sea level
m bgs = metres below ground surface

4.6 Groundwater Sampling

Groundwater samples were collected on March 29, 2022 from the four monitoring wells MW1, MW5, MW6 and MW8. Groundwater sampling was conducted in accordance with the MECP's Sampling Guidance Document and Burnside's SOP.

Groundwater samples were collected using low flow sampling and decanted directly into laboratory supplied bottles (pre-charged with preservatives where applicable). Disposable nitrile gloves (one pair per sample) were used throughout the process of groundwater sample collection. Groundwater samples were submitted to AGAT Laboratories using the chain of custody form to request laboratory analysis of PHCs, VOCs, PCBs, Organochlorine Pesticides, metals, and inorganics.

4.7 Analytical Testing

Soil and groundwater samples were submitted to AGAT Laboratories using the chain of custody form to request laboratory analysis for contaminants of potential concern.

AGAT Laboratories utilize MOE, EPA, NIOSH, and Standard Methods, as well as other industry methods, in accordance with both federal and provincial legislations. 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.

Analytical results for soil samples are listed in the Certificates of Analysis in Appendix F.

Analytical results for groundwater are listed in the Certificates of Analysis in Appendix G.

4.8 Quality Assurance and Quality Control Measures

The following quality control measures were implemented during the field investigation and collection of soil and groundwater samples to ensure data quality.

4.8.1 Laboratory Supplied Sample Containers

Samples were collected in appropriate sample containers supplied by AGAT Laboratories. Where applicable, preservatives were added to the sample containers by AGAT prior to shipment to Burnside personnel.

4.8.2 Sampling Supplies and Procedures

To minimize cross contamination during the field investigation and collection of samples, the following measures were taken:

- Soil cores were extracted from boreholes with the Geoprobe rig using the Macrocore MC5 dual tube sampling system. This sampling method uses specialized one-time use core sampling tubes constructed of clear PVC to recover continuous core soil samples in 1.5 m (5 ft.) lengths. This sampling method prevents cross contamination as the soil sample is isolated within the PVC casing.
- New water sampling tubes were dedicated to each groundwater monitoring well.
- New nitrile gloves were worn by Burnside staff during each sample collection event.

4.8.3 QA/QC Samples

Duplicate samples were collected to ensure data quality. All sample containers that were returned to AGAT Laboratories for analysis were submitted under the chain of custody procedure. AGAT's quality assurance includes analysis of laboratory duplicate samples, method Blank Spike samples, and Matrix Spike samples.

5.0 Review and Evaluation

5.1 Site Geology

A thick layer of clay silt till is beneath the Site. Silty sand is below the clay silt till layer. Borehole logs are provided in Appendix D.

5.2 Groundwater Elevations and Flow Direction

5.2.1 Regional Groundwater Flow

The Site is in the West Lake Ontario Shoreline Watershed which flows southeastward into Lake Ontario. A map showing watershed is provided in Appendix H. Regional groundwater flow is interpreted to flow southeastward toward Lake Ontario. Elevation contours and the inferred direction of regional flow are illustrated on Figure 2.

5.2.2 Shallow Groundwater Flow

Static water levels were measured in each monitoring well prior to the collection of groundwater samples. Static water levels ranged from 0.02 to 2.76 m bgs. Static water elevations and contours shown on Figure 4 indicate the direction of groundwater flow across the Site is toward the east.

5.3 Soil Quality

Soil samples were submitted for laboratory analysis of PHCs, PAHs, VOCs, SVOCs, Organochlorine Pesticides, PCBs, metals, and inorganics. Duplicate samples of soil were collected for laboratory analysis of each parameter, as a quality assurance/quality control measure of analytical results.

Analytical results were compared to the applicable MECP standards for Institutional Use and Community Use in the document *Soil, Ground Water and Sediment Standards for Use under Part XV.1 of the Environmental Protection Act,* listed in *Table 2: Full Depth Generic Site Condition Standards in Potable Groundwater Condition* (Table 2 SCS). Particle size (sieve) analysis confirms criteria for fine soil texture is applicable.

All concentrations of the parameters tested are considered to be within the applicable site condition standards for soil listed in Table 2 SCS, indicating soil quality at the Site is suitable for Institutional Use and Community Use.

Laboratory Certificates of Analysis for the soil samples are provided in Appendix F.

5.3.1 Petroleum Hydrocarbons

Soil samples were analyzed for PHCs. A duplicate soil sample for PHCs was collected from BH-6 at a depth of 4.8 m (15.7 ft). One of the samples collected at BH-6 had a PHC F2 concentration a little higher than the applicable standard and had a detection of PHC F3, but no detection of PHC F1 or PHC F4. The duplicate soil sample collected from BH-6 at the same depth had no detections of PHC F1, PHC F2, PHC F3, or PHC F4. The average PHC F2 concentration of sample BH-6 and the duplicate BH-6 sample is less than the applicable PHC F2 Table 2 SCS. The analytical results indicate PHCs are within MECP Table 2 SCS for Institutional Use and Community Use.

5.3.2 Polycyclic Aromatic Compounds

Soil samples were analyzed for PAHs. Analytical results confirm that concentrations of PAHs were within MECP Table 2 SCS for Institutional Use and Community Use.

5.3.3 Volatile Organic Compounds

Soil samples were analyzed for VOCs. Analytical results confirm that concentrations of VOCs were within MECP Table 2 SCS for Institutional Use and Community Use.

5.3.4 Semi-Volatile Organic Compounds

Soil samples were analyzed for SVOCs. Analytical results confirm that concentrations of SVOCs were within MECP Table 2 SCS for Institutional Use and Community Use.

5.3.5 Organochlorine Pesticides

Soil samples were analyzed for Organochlorine Pesticides. Analytical results confirm that Organochlorine Pesticides concentrations were within MECP Table 2 SCS for Institutional Use and Community Use.

5.3.6 Polychlorinated Biphenyls

Soil samples were analyzed for Polychlorinated Biphenyls (PCBs). Analytical results confirm that concentrations of PCBs were within MECP Table 2 SCS for Institutional Use and Community Use.

5.3.7 Metals and Inorganics

Soil samples were analyzed for metals and inorganics. Analytical results confirm that concentrations of metals and inorganics were within MECP Table 2 SCS for Institutional Use and Community Use. Analytical results confirmed that soil pH is within the acceptable range.

5.3.8 Grain Size

Two soil samples were submitted for grain size analysis to characterize the soil texture. The laboratory results indicate soil texture is fine textured. The results indicate the soil samples are within the category of medium to fine textured soil.

The particle size / sieve analysis results are included in the AGAT Certificates of Analysis soil results in Appendix F.

5.4 Groundwater Quality

Groundwater samples were submitted for lab analysis of PHCs, VOCs, Organochlorine Pesticides, PCBs, metals, and inorganics. Duplicate samples of groundwater were collected for laboratory analysis of each parameter, as a quality assurance/quality control measure of analytical results.

Groundwater results were compared to MECP Table 2 SCS which lists standards for All Types of Property Uses, including Institutional Use and Community Use.

The concentrations of all parameters tested in the groundwater samples collected from the Site were within MECP Table 2 SCS, indicating groundwater quality at the Site is suitable for Institutional Use and Community Use.

Laboratory Certificates of Analysis for groundwater samples are provided in Appendix G.

5.4.1 Petroleum Hydrocarbons

Groundwater samples were analyzed for PHCs. Analytical results confirm that PHC concentrations were within MECP Table 2 SCS for All Types of Property Uses, which includes Institutional Use and Community Use.

5.4.2 Volatile Organic Compounds

Groundwater samples were analyzed for VOCs. Analytical results confirm that VOC concentrations were within MECP Table 2 SCS for All Types of Property Uses, which includes Institutional Use and Community Use.

5.4.3 Organochlorine Pesticides

Groundwater samples were analyzed for Organochlorine Pesticides. Analytical results confirm that Organochlorine Pesticides concentrations were within MECP Table 2 SCS for All Types of Property Uses, which includes Institutional Use and Community Use.

5.4.4 Polychlorinated Biphenyls

Groundwater samples were analyzed for Polychlorinated Biphenyls (PCBs). Analytical results confirm that concentrations of PCBs were within MECP Table 2 SCS for All Types of Property Uses, which includes Institutional Use and Community Use.

5.4.5 Metals and Inorganics

Groundwater samples were analyzed for metals and inorganics. Analytical results confirm that concentrations of metals and inorganics were within MECP Table 2 SCS for All Types of Property Uses, which includes Institutional Use and Community Use.

6.0 Conclusions

A Phase Two ESA was conducted by Burnside to assess soil and groundwater quality at the Site for contaminants of potential concern.

All parameters tested in the soil and groundwater samples were within the applicable standards listed in MECP Table 2 SCS for Institutional Use and Community Use.

The Phase Two ESA analytical results indicate soil quality and groundwater quality at the Site are suitable for Institutional Use and Community Use.

No further environmental assessment work is recommended.

6.1 Record of Site Condition Based on Phase One and Phase Two ESA

A Record of Site Condition (RSC) is not required.

The majority of the Site is cultivated farmland (Agricultural and Other Use). The future intended property uses of the Site for the proposed developments are Institutional Use (church) and Community Use (community centre).

All parameters tested in the soil and groundwater samples were within the applicable standards listed in MECP Table 2 SCS for Institutional Use and Community Use.

The Phase Two ESA results indicate soil and groundwater quality at the Site are suitable for the proposed development property uses Institutional Use (church) and Community Use (community centre), as defined in O. Reg. 153/04.

7.0 Recommendations

No further environmental assessment work is recommended.

8.0 Qualifications of Assessors

The following staff conducted the work presented herein:

Caitlin Dermott, B.Sc.

Caitlin Dermott is an Environmental Scientist with experience in environmental investigations, sample collection, and scientific research. Ms. Dermott has studied geography, geology, biology, and chemistry, and is familiar with the requirements of O. Reg. 153/04 for conducting Phase Two Environmental Site Assessments. For this project, Ms. Dermott conducted the field work, sample collection, and static water level measurements.

Kathleen E. Langstaff, B.Sc., P.Geo., QP_{ESA}

Kathleen Langstaff is a Licensed Professional Geoscientist with over 25 years of experience in environmental and geological investigations. Ms. Langstaff is a Qualified Person (QP) as per O. Reg. 153/04. Kathleen has conducted numerous Phase I and Phase II ESAs in accordance with CSA Standard Z768-01 and Z769-00, as well as Phase One and Phase Two ESAs as per O. Reg. 153/04, in support of a Record of Site Condition at a variety of sites. Her project experience includes soil investigations, groundwater studies, drilling programs, test pit programs, tank removals, excavation of contaminated material and remediation. For this project, Kathleen Langstaff conducted the Site visit and prepared the drilling and sampling plan, reviewed the analytical results, and prepared the Phase Two ESA report.

R.J. Burnside & Associates Limited

Burnside was founded in 1970 and currently comprises over 400 professional, technical, and support staff providing a wide range of environmental and engineering services to both the public and private sectors, domestically and internationally. Burnside provides a wide range of specialized ESA services.

9.0 Limitations and Use of Report

R.J. Burnside & Associates Limited confirms that it has completed a Phase Two ESA at the Site located at Part of Lot 9, RCP 1542, Parts 6, 7, and 9, Plan 43R37503, Ninth Line, Mississauga, Ontario and has made the findings and conclusions provided herein.

The conclusions in this report are professional opinions based upon observations of the Site conditions existing at the time of our assessment. This report has been prepared in accordance with industry accepted environmental study and/or engineering practices for a Phase Two ESA in accordance with the requirements of Ontario Regulation 153/04, as amended, and CSA Standard Z769-00.

It should be noted that some of the information and resulting conclusions of a Phase Two ESA are time sensitive. Burnside does not guarantee the accuracy and reliability of the information provided by other persons or agencies and does not claim responsibility for undisclosed or non-visible environmental concerns that may result in costs for environmental clean-up or remediation.

The results of an investigation of this nature should, in no way, be construed as a warranty that the Site is free from any and all contamination from past or current practices.

This report was prepared for the use of the client, St. Mark and St. Demiana Coptic Orthodox Church, and any financial institution, municipality, or regulatory agency, to which the report is submitted by the addressee. Any use of, reliance on, or decisions based on this report by a third party are the responsibility of such third parties. Burnside accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report. Reports or memoranda resulting from this assignment are not to be used, in whole or in part, outside the client's organization without prior written permission.

10.0 References

Canadian Standards Association. CSA Standard Z769-00 Phase II Environmental Site Assessment (R2013).

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Ontario Regulation 153/04, Environmental Protection Act, 2004.

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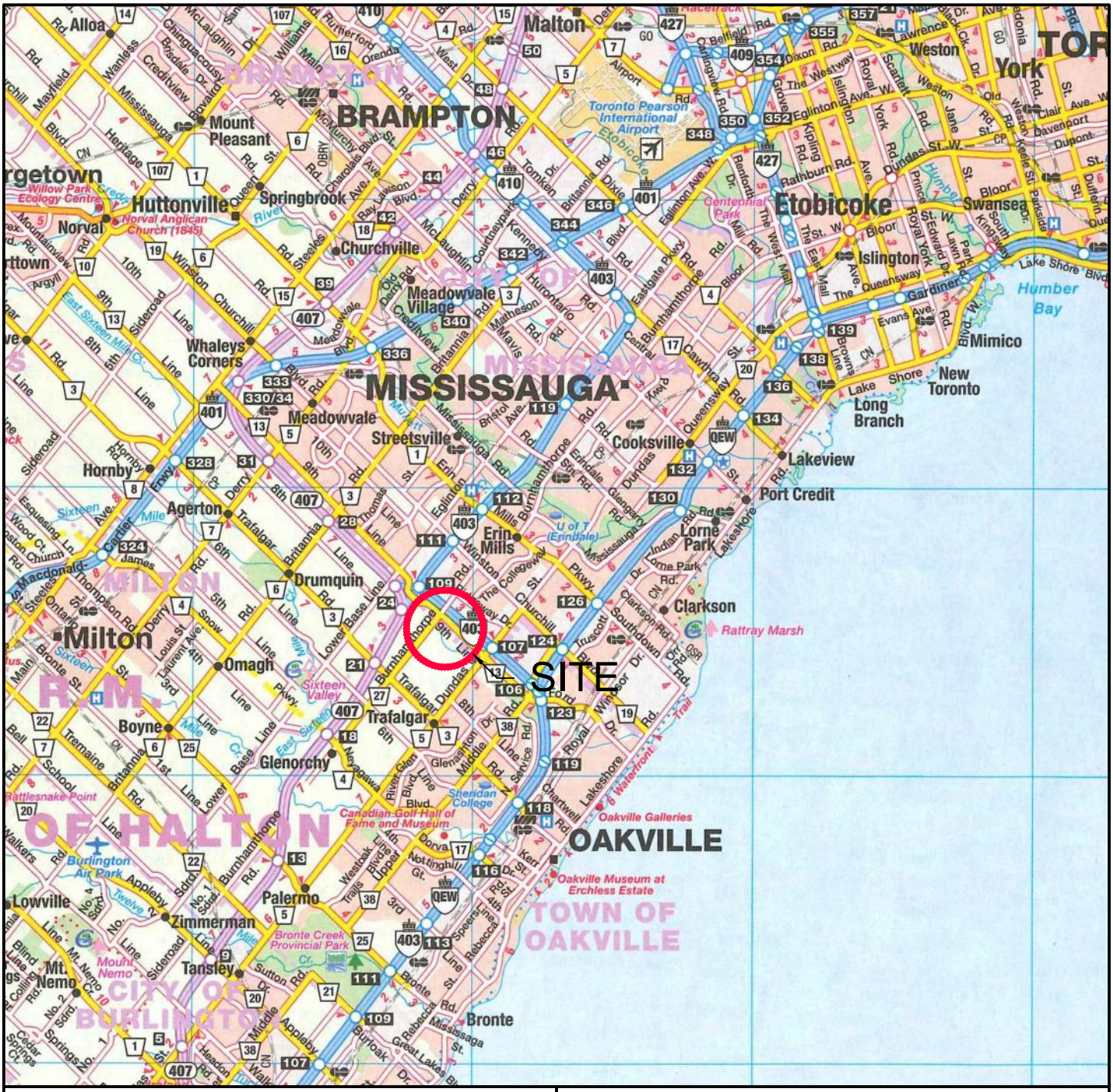
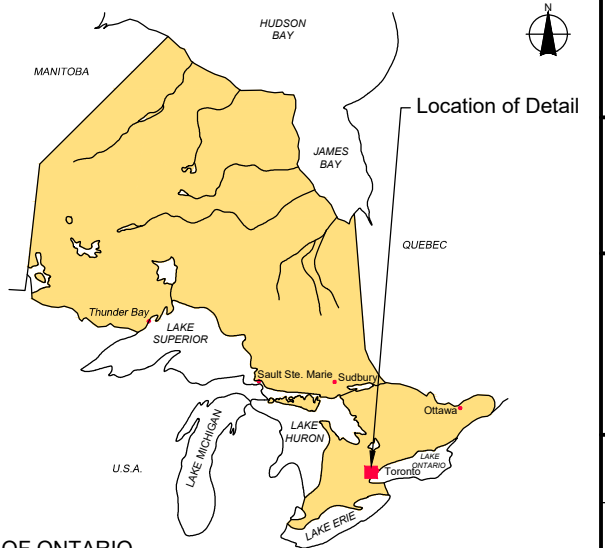
Figures





KEY MAP OF ONTARIO

BURNSIDE

Client

ST. MARK AND ST. DEMIANA COPTIC ORTHODOX CHURCH

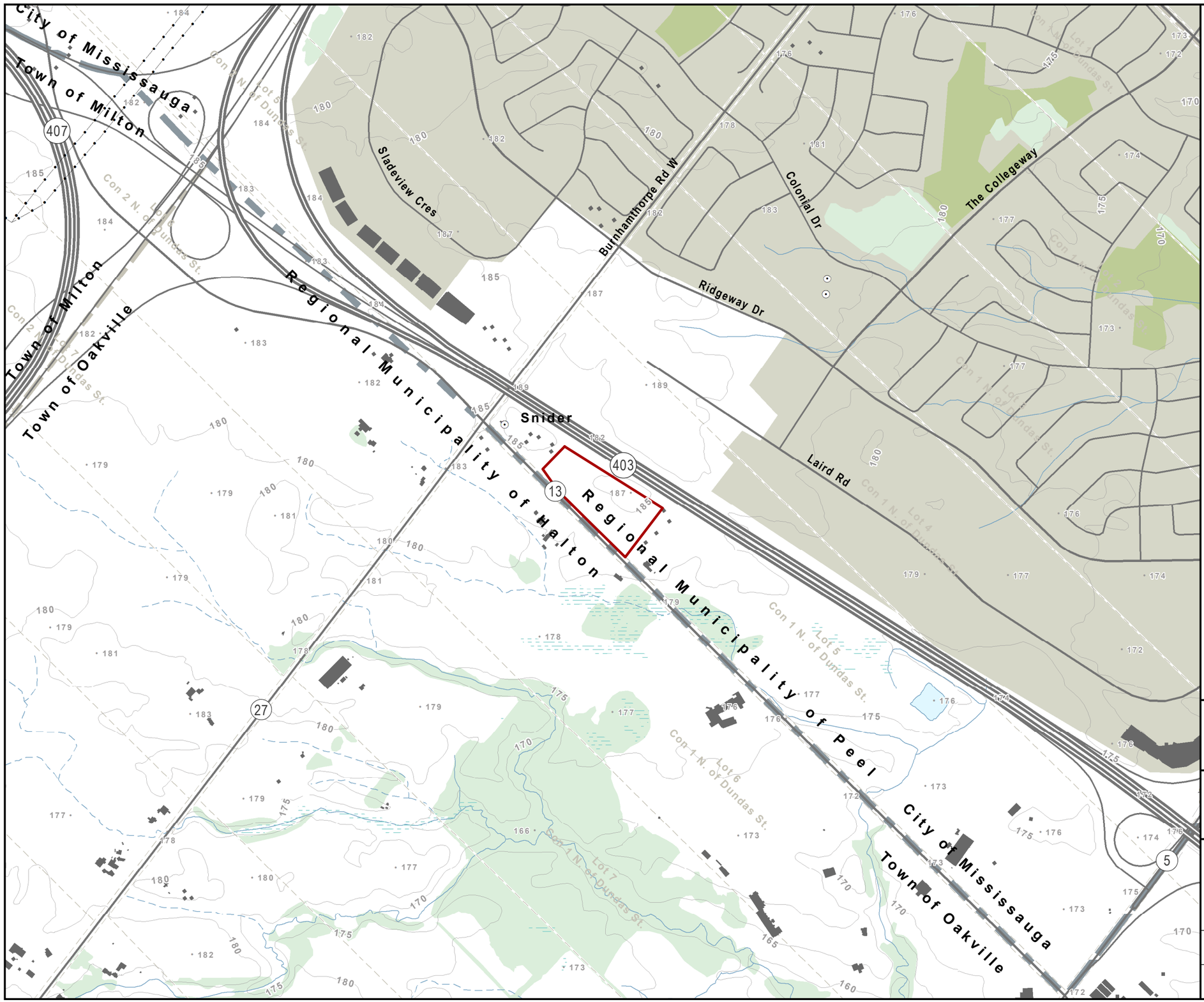
Figure Title

PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

SITE LOCATION

Drawn	Checked	Date	Figure No.
CD	KL	MAY 2022	1
Scale		Project No.	
N.T.S.		300044049.10000	

File: Y:\044049 - Ninth Line Mississauga\03_ProductionDwg\



Study Site Property
Communication or Meteorological Tower; Communication Tower: Cell
Building (Location Defined)
Building
Power Transmission Line
Freeway
Arterial / Collector Road
Local Road
Spot Elevation
Contour
County, Regional Municipality, District Boundary
Municipal Boundary
Geographic Township Boundary
Lot Boundary
Waterbody: Permanent
Wetland
Stream: Permanent
Stream: Intermittent
Wooded Area
Built-Up Area: Impervious
Built-Up Area: Pervious

Sources:

1. Ministry of Natural Resources, © Queen's Printer for Ontario
2. Natural Resources Canada © Her Majesty the Queen in Right of Canada.

Datum: North American 1983 CSRS
Coord. System: NAD 1983 CSRS UTM Zone

N

0 200 400 600 800
Metres

BURNSIDE

Client

ST. MARK AND ST. DEMIANA COPTIC ORTHODOX CHURCH

Figure Title

PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

REGIONAL PLAN

Drawn	Checked	Date	Figure No.
CD	KL	MAY 2022	2
Scale		Project No.	
1:10,000		300044049.1000	

File Path: Y:\044049 - Ninth Line Mississauga\

LEGEND

APPROXIMATE SITE BOUNDARY

Air Photo Source:
Background 2017 Air Photo obtained from Google Earth Professional / DigitalGlobe © Google Earth, use of products are subject to the Terms and Conditions of Licensed Google Earth Software.

N

0 40 80 120 160
Metres

BURNSIDE

Client

ST. MARK AND ST. DEMIANA COPTIC ORTHODOX CHURCH

Figure Title

PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

SITE PLAN

Drawn	Checked	Date	Figure No.
CD	KL	MAY 2022	3
Scale		Project No.	
1:2,000		300044049.10000	

File: \\ELMO\Shared Work Areas\044049 - Ninth Line Mississauga\

LEGEND

- APPROXIMATE SITE BOUNDARY
- APEC-1 AREA OF POTENTIAL ENVIRONMENTAL CONCERN
- BOREHOLE & GROUNDWATER MONITORING WELL (installed in 2020, groundwater samples)
- BOREHOLE LOCATION (drilled in 2022, soil samples)
- BOREHOLE & GROUNDWATER MONITORING WELL (drilled-installed in 2022, groundwater and soil samples)
- 178.79 STATIC GROUNDWATER ELEVATION (m asl)
- GROUNDWATER ELEVATION CONTOUR (m asl)
- DIRECTION OF GROUNDWATER FLOW

Analytical results were compared to applicable MECP standards for Institutional Property Use and Community Use in the document *Soil, Ground Water and Sediment Standards for Use under Part XV.1 of the Environmental Protection Act,* listed in *Table 2: Full Depth Generic Site Condition Standards in Potable Groundwater Condition* (Table 2 SCS). Soil analysis confirms fine soil texture is applicable.

All parameters tested in the soil and groundwater samples were within the applicable site condition standards listed in Table 2 SCS for Institutional Use and Community Use for the proposed development.

Air Photo Source: Background 2021 Air Photo First Base Solutions.

N

0 40 80 120 160
Metres

BURNSIDE

Client
ST. MARK AND ST. DEMIANA COPTIC ORTHODOX CHURCH

Figure Title
PHASE TWO ENVIRONMENTAL SITE ASSESSMENT
SAMPLING LOCATIONS & SITE CONDITIONS

Drawn	Checked	Date	Figure No.
CD	KL	MAY 2022	4
Scale		Project No.	
1:2,000		300044049.10000	

File: \\ELM\Shared Work Areas\044049 - Ninth Line Mississauga\

BURNSIDE

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Appendix A

Title Search Records

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

PROPERTY DESCRIPTION: PART OF LOT 9, RCP 1542, BEING PARTS 6, 7 AND 9 ON PLAN 43R-37503; TOGETHER WITH AN EASEMENT OVER PART LOT 9, RCP 1542, BEING PARTS 4 & 5, PLAN 43R37503 AS IN PR3122861; SUBJECT TO AN EASEMENT OVER PARTS 6 & 7, PLAN 43R37503 IN FAVOUR OF PART LOT 9, RCP 1542, BEING PARTS 1,2,3,4,5 & 8, PLAN 43R37503 AS IN PR3122861; CITY OF MISSISSAUGA

PROPERTY REMARKS:

ESTATE/QUALIFIER:
FEE SIMPLE
ABSOLUTE

RECENTLY:
DIVISION FROM 13413-0110

PIN CREATION DATE:
2017/05/15

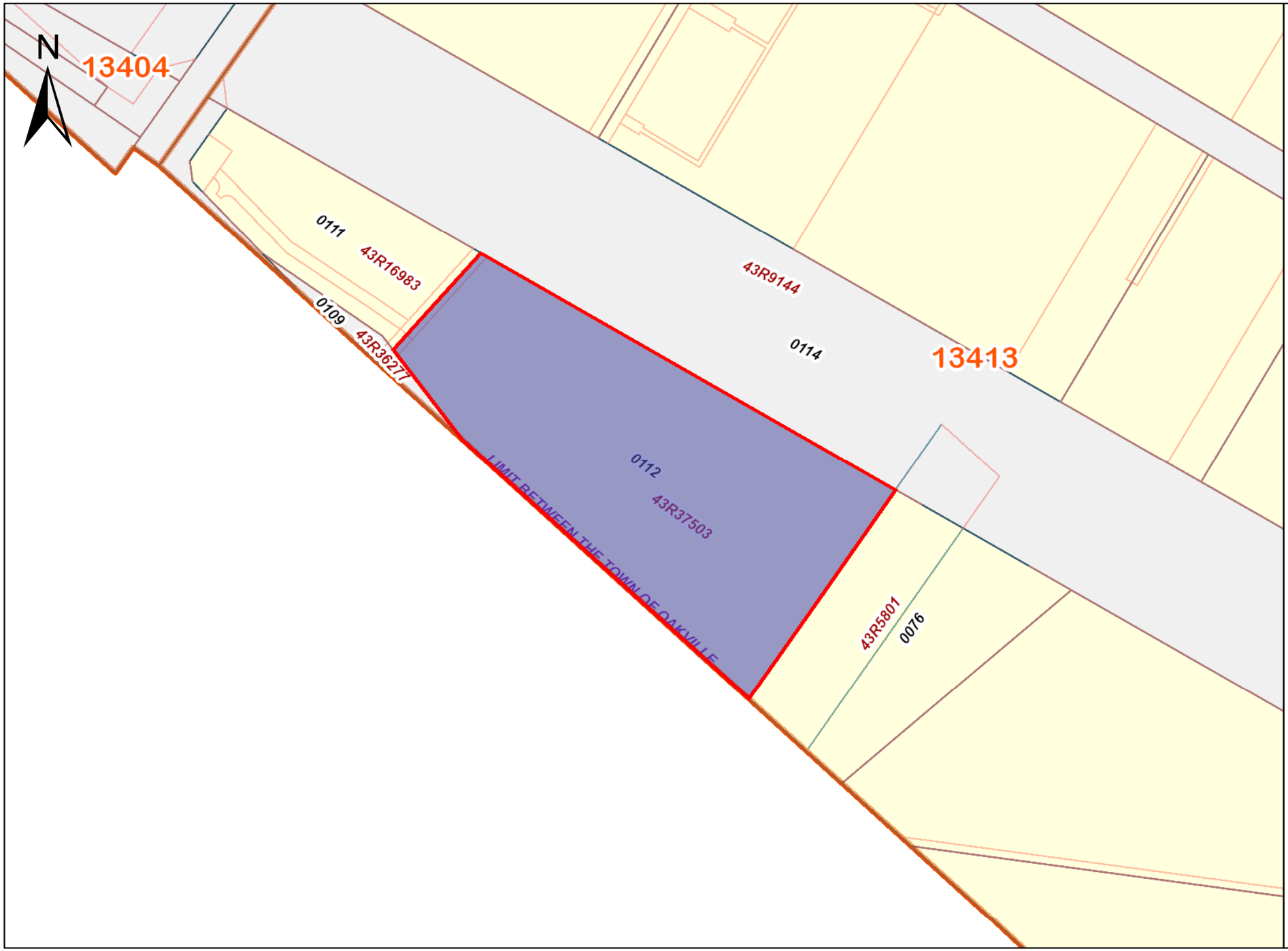
OWNERS' NAMES
THE ERIN MILLS DEVELOPMENT CORPORATION

CAPACITY SHARE
ROWN

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
*** PRINTOUT INCLUDES ALL DOCUMENT TYPES AND DELETED INSTRUMENTS SINCE 2017/05/15 ***						
FAD1743	1984/08/10	APL FIRST REGN			THE ERIN MILLS DEVELOPMENT CORPORATION	C
LT1043388	1989/08/24	CHARGE	$350,000,000	THE ERIN MILLS DEVELOPMENT CORPORATION	THE BANK OF NOVA SCOTIA	C
	REMARKS: OTHER LANDS					
LT1043389	1989/08/24	CHARGE	$150,000,000	THE ERIN MILLS DEVELOPMENT CORPORATION	THE BANK OF NOVA SCOTIA	C
	REMARKS: OTHER LANDS					
LT1302810	1992/03/12	NOTICE OF LEASE				C
LT1934589	1999/04/28	NOTICE OF LEASE		THE ERIN MILLS DEVELOPMENT CORPORATION	ROGERS CANTEL INC.	C
PR661337	2004/06/23	NOTICE OF LEASE		THE ERIN MILLS DEVELOPMENT CORPORATION	ROGERS WIRELESS INC.	C
	REMARKS: LT1302810,LT1934589					
PR2820285	2015/11/12	NOTICE		*** DELETED AGAINST THIS PROPERTY *** THE ERIN MILLS DEVELOPMENT CORPORATION	THE CORPORATION OF THE CITY OF MISSISSAUGA	
PR2820286	2015/11/12	POSTPONEMENT		*** DELETED AGAINST THIS PROPERTY *** THE BANK OF NOVA SCOTIA	THE CORPORATION OF THE CITY OF MISSISSAUGA	
	REMARKS: LT1043388 TO PR2820285 - DELETED PER PR3427204 B MCCOLL 2019/01/07					
PR2820287	2015/11/12	POSTPONEMENT		*** DELETED AGAINST THIS PROPERTY *** THE BANK OF NOVA SCOTIA	THE CORPORATION OF THE CITY OF MISSISSAUGA	
	REMARKS: LT1043389 TO PR2820285 - DELETED PER PR3427204 B MCCOLL 2019/01/07					
43R37503	2017/01/13	PLAN REFERENCE				C
PR3122862	2017/05/08	NOTICE	$2	THE ERIN MILLS DEVELOPMENT CORPORATION		C
PR3427204	2018/12/24	LR'S ORDER		*** COMPLETELY DELETED ***		

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

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
				LAND REGISTRAR, PEEL LAND REGISTRY OFFICE		
REMARKS: AMEND DOC POOL, REMOVE PR2820285						



ServiceOntario

SCALE

0 30 60 90 120 meters

PROPERTY INDEX MAP

PEEL(No. 43)

LEGEND

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

THIS IS NOT A PLAN OF SURVEY

NOTES

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

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

FOR DIMENSIONS OF PROPERTIES BOUNDARIES SEE RECORDED PLANS AND DOCUMENTS

ONLY MAJOR EASEMENTS ARE SHOWN

REFERENCE PLANS UNDERLYING MORE RECENT REFERENCE PLANS ARE NOT ILLUSTRATED

Ontario

BURNSIDE

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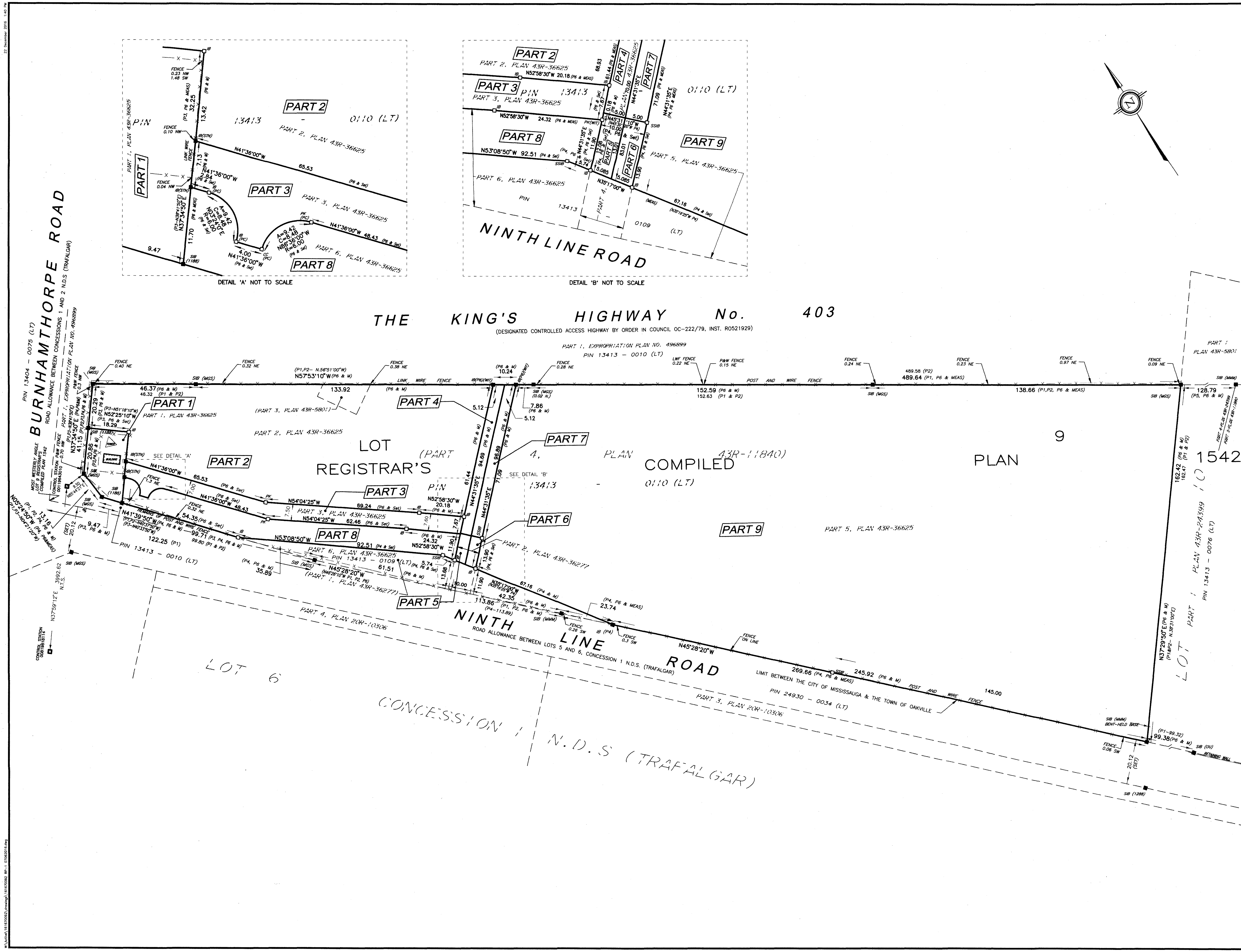
Appendix B

Plan of Survey



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

DATE: Jan 12, 2017

S. SINNIS, OLS

PLAN 43R-37503

RECEIVED AND DEPOSITED

DATE: Jan. 13, 2017

REPRESENTATIVE FOR THE LAND REGISTRAR FOR THE LAND TITLES DIVISION OF PEEL (43).

SCHEDULE

PART	LOT	PLAN	PIN
1	PART OF LOT 9	REGISTRAR'S COMPILED PLAN No. 1542	ALL OF 13413-0110 (LT)
2			
3			
4			
5			
6			
7			
8			
9			

PARTS 1 to 9 (BOTH INCLUSIVE) COMPRISE ALL OF PIN 13413-0110 (LT)

PLAN OF SURVEY of
PART OF LOT 9
REGISTRARS COMPILED PLAN 1542
IN THE
CITY OF MISSISSAUGA
REGIONAL MUNICIPALITY OF PEEL

Scale 1:750

20 0 20 40 METRES

Stantec Geomatics Ltd.

METRIC CONVERSION

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

BEARING NOTE

BEARINGS ARE UTM GRID, DERIVED FROM SPECIFIED CONTROL POINTS 00819818144 AND 00119643010, SHOWN HEREON, HAVING A BEARING OF N.37°59'12"E. REFERRED TO THE CENTRAL MERIDIAN OF UTM ZONE 17 (81° WEST LONGITUDE) NAD83 (CSRS) (1997.0).

SPECIFIED CONTROL POINTS (SCPs): UTM ZONE 17, NAD83 (CSRS)(1997.0)
COORDINATES TO URBAN ACCURACY PER SEC 14(2) OF O.REG. 216/10

POINT ID	NORTHING	EASTING
SCP 00119643010	4819587.770	603791.621
SCP 00819818114	4816440.972	601334.244

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

GRID SCALE CONVERSION

DISTANCES ARE GROUND AND CAN BE CONVERTED TO GRID BY MULTIPLYING BY THE COMBINED SCALE FACTOR OF 0.99970991.

LEGEND

	DENOTES	
■	"	FOUND MONUMENTS
□	"	SET MONUMENTS
IB	"	IRON BAR
IBø	"	ROUND IRON BAR
SIB	"	STANDARD IRON BAR
SSIB	"	SHORT STANDARD IRON BAR
CC	"	CUT CROSS
CP	"	CONCRETE PIN
WIT	"	WITNESS
PIN	"	PROPERTY IDENTIFICATION NUMBER
MEAS/M	"	MEASURED
PROP	"	PROPORTIONED
OU	"	ORIGIN UNKNOWN
STANTEC/STN	"	STANTEC GEOMATICS LTD.
PC	"	POINT OF CURVATURE
P1	"	PLAN 43R-11840
P2	"	PLAN 43R-5801
P3	"	PLAN 43R-16983
P4	"	PLAN 43R-36277
P5	"	PLAN 43R-24399
P6	"	PLAN 43R-36625
936	"	R.B. LEE O.L.S.
1188	"	CHRISTOPHER ANTHONY SEXTON
1288	"	D.G. GRAHAM LIMITED O.L.S.
MGS	"	MINISTRY OF GOVERNMENT SERVICES
MMM	"	MARSHALL, MACKLIN, MONAGHAN ONTARIO LIMITED O.L.S

SURVEYOR'S CERTIFICATE

I CERTIFY THAT :

1. THIS SURVEY AND PLAN ARE CORRECT AND IN ACCORDANCE WITH THE SURVEYS ACT, THE SURVEYORS ACT AND THE LAND TITLES ACT AND THE REGULATIONS MADE UNDER THEM.
2. THE SURVEY WAS COMPLETED ON THE 14th DAY OF DECEMBER , 2016.

DECEMBER 22, 2016
DATE

S. SINNIS, OLS
ONTARIO LAND SURVEYOR

Stantec
Stantec Geomatics Ltd.
ONTARIO LAND SURVEYORS
300-675 COCHRANE DRIVE, WEST TOWER
MARKHAM, ONTARIO, L3R 0B8
TEL. 905.944.7777 FAX. (905)474-9889
stantec.com

DRAWN: A.W.S.	CHECKED: SS	DATE: DEC 22, 2016	PROJECT No.: 161670092

BURNSIDE

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Appendix C

Property Information

Zoning Information Report

City of Mississauga, 300 City Centre Drive, Mississauga, Ontario Canada L5B 3C1

Property Details

Address:	0 NINTH LINE
Legal Description:	RCP 1542, PT LT 9 - PTS 6, 7, 9 43R37503
Roll Number:	21-05-150-010-00233-0000
Common Name:	
Property Code:	VAC RES/COM/IND LND PARTLY FARMED-OWNER NON-FARMER
Ward:	8
Councillor:	MATT MAHONEY
Area:	39,316.24

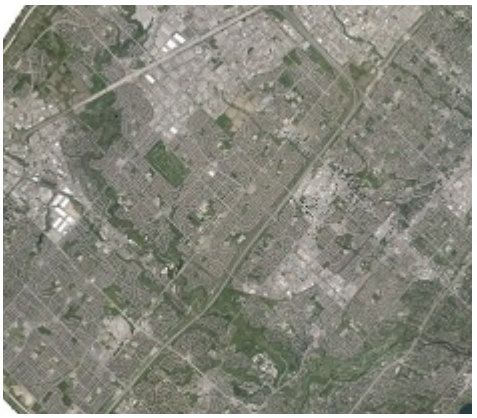
Detail Map

Property Zoning Information

The zone(s) for this property are listed below. To access the Mississauga Zoning By-law, please visit www.mississauga.ca/zoningbylaw. If you have any questions about the zoning information displayed below, please contact 311 (905-615-4311 outside City limits) or visit www.mississauga.ca/zoning.

Zone	Master Bylaw	Enacting Bylaw	OMB Case/File No.	Status
E2-93	0225-2007	BL-0225/07	N/A	In Force

Aerial Map



Heritage Status

Mississauga's heritage, which extends over 10,000 years, includes archaeological resources, numerous residential, commercial and industrial buildings, views, vistas, ridge lines, scenic routes and a variety of natural heritage properties. For more information, please visit www.mississauga.ca/heritage.

Status:	NOT LISTED ON THE HERITAGE REGISTER
Conservation District:	
Bylaw:	
Bylaw Date:	
Designation Statement:	
Inventory Item:	

Date Created: 2022-05-08

Property information

0 NINTH LINE
Roll number: 05-15-0-010-00233-0000
Legal description: RCP 1542, PT LT 9 - PTS 6, 7, 9 43R37503

View Map

Property details

Legal description	RCP 1542, PT LT 9 - PTS 6, 7, 9 43R37503
Property code	VAC RES/COM/IND LND PARTLY FARMED-OWNER NON-FARMER
Ward	8
Councillor	MATT MAHONEY
Area	39316.24 SM
Depth	M
Frontage	82.91 M
Status	Registered

Site plan control

This property is subject to the Site Plan Control By-law.

If you're planning construction of a new building or addition, you'll need to apply for site plan approval. A building permit cannot be issued until site plan approval has been granted.

Learn more about site plan approval process.

Property information

0 NINTH LINE
Roll number: 05-15-0-010-00233-0000
Legal description: RCP 1542, PT LT 9 - PTS 6, 7, 9 43R37503

View Map

Zoning information

To view the zoning regulations for this property, click on the zone(s) in the table below. Click here to access the entire Zoning By-law.

You can also use the zoning information map to view the surrounding zoning information. If you have any questions, please call 311 (905-615-4311 outside City limits).

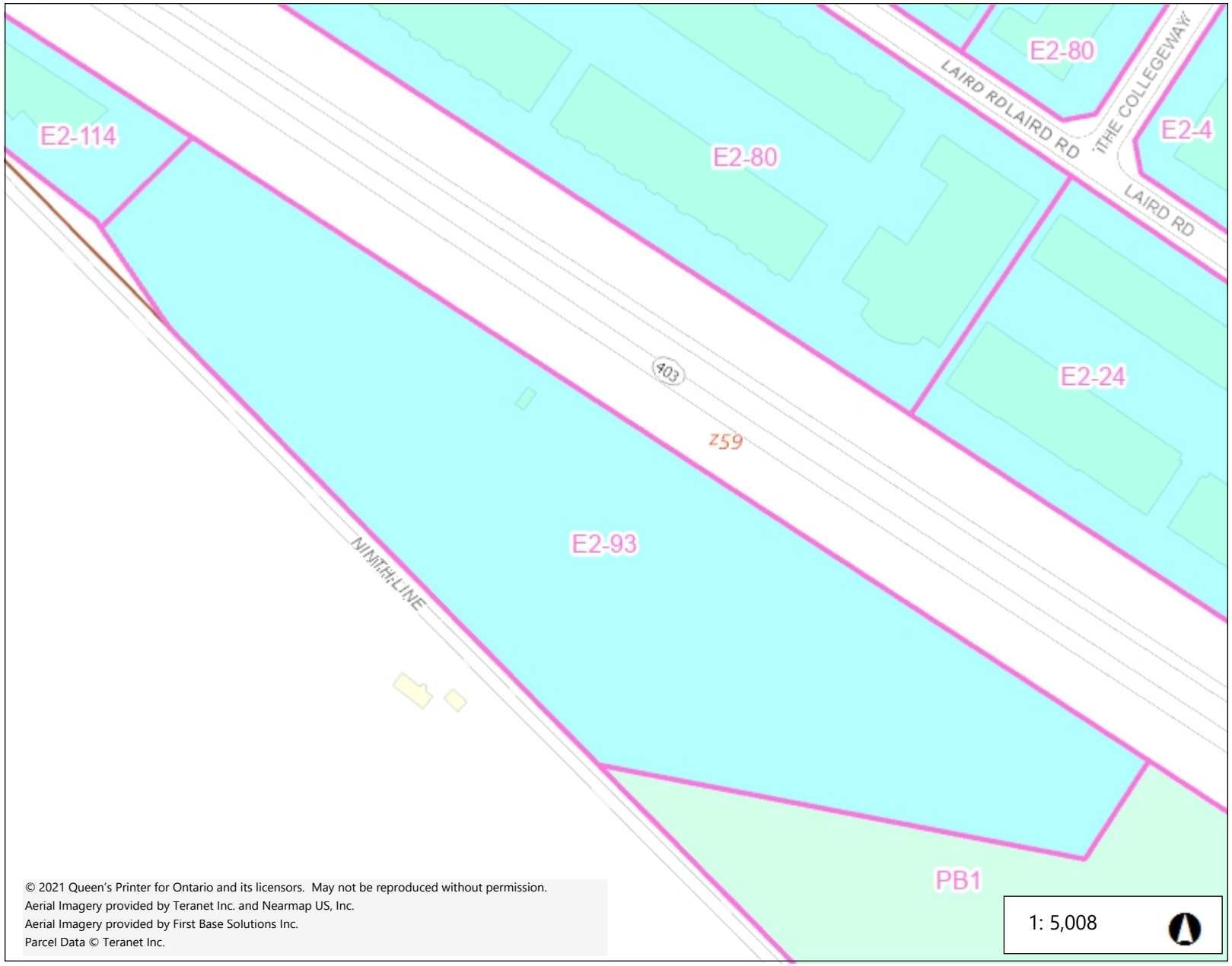
Learn more about Zoning.

Zone	Master by-law	Enacting by-law	OMB Case/File No.	Status
E2-93	0225-2007	BL-0225/7	N/A	IN FORCE

There are no building permits related to the selected property.

MISSISSAUGA

0 Ninth Line, Mississauga



1: 5,008

Legend

- Road Names
- Parcel
- Zoning Labels
- Zoning Shapes
  - A Agricultural (By-law 5500)
  - AP Lester B. Pearson International
  - B Buffer, Berm, Fence
  - C1 Convenience Commercial
  - C2 Neighbourhood Commercial
  - C3 General Commercial
  - C4 Mainstreet Commercial
  - C5 Motor Vehicle Commercial
  - CC1 Core Commercial
  - CC2, CC4 Mixed Use
  - CC3 Mixed Use - Transition Area
  - CCO Office
  - CCOS Open Space
  - D Existing Use
  - E1 Employment in Nodes
  - E2 Employment
  - E3 Industrial
  - G1 Natural Hazards
  - G2 Natural Features
  - I Hospital and University / College
  - O Office
  - OS1 Community Park

Notes

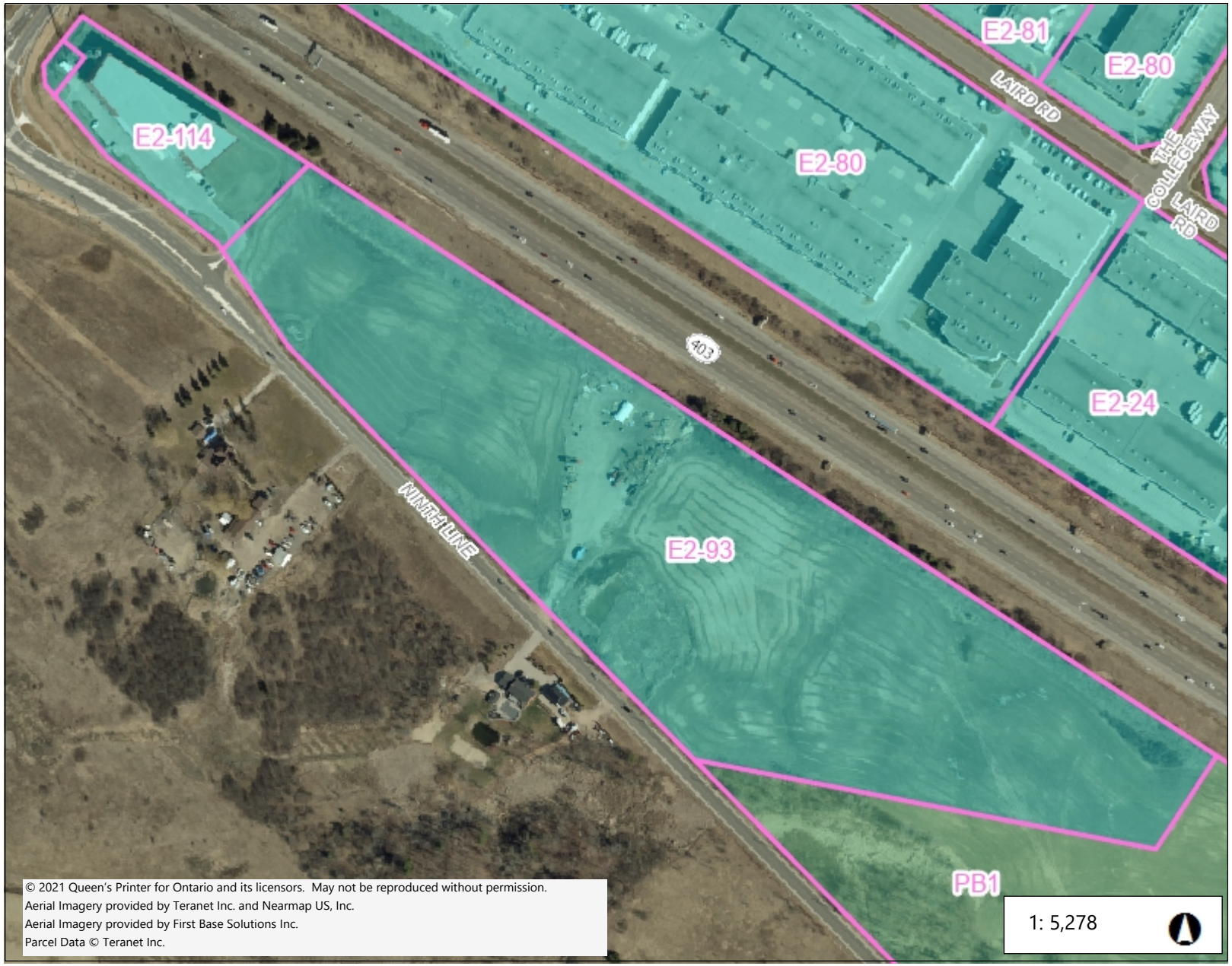
254.4 0 127.21 254.4 Meters

WGS_1984_Web_Mercator_Auxiliary_Sphere

This map is a user generated static output from an Internet mapping site and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.
THIS IS NOT A PLAN OF SURVEY

MISSISSAUGA

RCP 1542, PT LT 9 - PTS 6, 7, 9 43R37503



Legend

- Road Names
- Parcel
- Zoning Labels
- Zoning Shapes
  - A Agricultural (By-law 5500)
  - AP Lester B. Pearson International
  - B Buffer, Berm, Fence
  - C1 Convenience Commercial
  - C2 Neighbourhood Commercial
  - C3 General Commercial
  - C4 Mainstreet Commercial
  - C5 Motor Vehicle Commercial
  - CC1 Core Commercial
  - CC2, CC4 Mixed Use
  - CC3 Mixed Use - Transition Area
  - CCO Office
  - CCOS Open Space
  - D Existing Use
  - E1 Employment in Nodes
  - E2 Employment
  - E3 Industrial
  - G1 Natural Hazards
  - G2 Natural Features
  - I Hospital and University / College
  - O Office
  - OS1 Community Park

Notes

268.1 0 134.05 268.1 Meters

WGS_1984_Web_Mercator_Auxiliary_Sphere

 5-8-2022

This map is a user generated static output from an Internet mapping site and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.

THIS IS NOT A PLAN OF SURVEY

BURNSIDE

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Appendix D

Borehole Logs

BOREHOLE 1

Date Drilled: February 10, 2020
Rig: Geoprobe 7822DT
Contractor: CMT Drilling Inc.
Drilling Method: SPT

Elevation: 179.66 m
Logged by: SW

Project No.: 20-026
Project: Geotech - Proposed Church
Location: Ninth Line, Mississauga, ON

Depth (ft/m)	Sample Type	Recovery (%)	Sample Number	Symbols	SOIL DESCRIPTION	Elevation / Depth	Well Installation	Moisture Content % Wp [----X----] Wl (10 20 30 40)	Pocket Penetrometer kPa (100 200 300 400) / SPT (N) Blows/0.3 m (20 40 60 80)
					Ground Surface (m)	179.66 / 0.00			
0	SS		1		**TOPSOIL** Loose, dark brown, silty organic topsoil, moist (100mm)	178.90 / 0.76		15.6	6
1	SS		2		**CLAY AND SILT** Firm, brown, red and grey mottled clay and silt, some sand, trace gravel, moist	178.14 / 1.52		12.9	26
2	SS		3		Becoming very stiff, brown Becoming hard			14.0	37
3	SS		4		Becoming grey	177.07 / 2.59		11.1	62
4	SS		5					11.7	41
	MC5		6					10.4	
5	SS		7		**SAND** Dense, grey sand, some gravel, trace silt, wet	175.09 / 4.57		20.9	
	MC5		8		**SANDY CLAYEY SILT TILL** Dense, grey sandy clayey silt till, trace gravel, wet	173.87 / 5.79		10.2	36
6	MC5		9		**SAND** Dense, grey sand, some silt, trace clay and gravel, wet			13.8	
7								16.9	
8					End of Borehole	172.04 / 7.62			
9									

Groundwater measured at approximately 1.74 m below ground surface (elev. 177.92 m) on Feb. 12, 2020

Well Installation: Bentonite; WL: 1.74 m; 1" Steel Casing; #2 Silica Sand; 50mm Slot 10 Screen

CMT ENGINEERING INC.
1011 Industrial Crescent, Unit 1
St. Clements, Ontario N0B 2M0
phone 519-699-5775 fax 519-699-4664
www.cmtinc.net

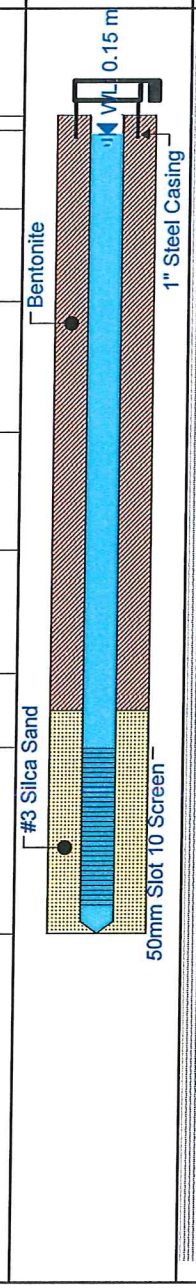
BOREHOLE 5

Date Drilled: February 10, 2020
Rig: Geoprobe 7822DT
Contractor: CMT Drilling Inc.
Drilling Method: SPT

Elevation: 177.84 m
Logged by: SW

Project No.: 20-026
Project: Geotech - Proposed Church
Location: Ninth Line, Mississauga, ON

Depth (ft/m)	Sample Type	Recovery (%)	Sample Number	Symbols	SOIL DESCRIPTION	Elevation / Depth	Well Installation	Moisture Content % Wp [----X----] Wl 10 20 30 40	Pocket Penetrometer kPa 100 200 300 400 / SPT (N) Blows/0.3 m 20 40 60 80
					Ground Surface (m)	177.84			
0	SS		1		**TOPSOIL** Loose, dark brown, silty organic topsoil, moist (120mm)	0.00		25.3	3
						177.08			
1	SS		2		**CLAYEY SILT** Firm, brown, red, and grey mottled clayey silt, some sand and gravel, moist	0.76		12.3	28
						176.32			
2	SS		3		Becoming very stiff, brown Becoming hard	1.52		11.0	50(3")
	SS		4		Becoming grey	175.25 2.59		8.5	57
3	SS		5					10.5	59
					SANDY CLAYEY SILT TILL Very dense, grey sandy clayey silt till, some gravel, wet	174.28 3.56		12.9	
4	MC5		6					12.1	
					SILT TILL Very dense, grey silt till, some sand and clay, trace gravel, moist becoming wet	173.27 4.57			
	SS		7					7.6	50(5")
5						172.66 5.18			
6	MC5		8					24.4	
					End of Borehole	171.13 6.71			
7									
8									
9									



Groundwater measured at approximately 0.15 m below ground surface (elev. 177.69 m) on Feb. 12, 2020.

CMT ENGINEERING INC.
1011 Industrial Crescent, Unit 1
St. Clements, Ontario N0B 2M0
phone 519-699-5775 fax 519-699-4664
www.cmtinc.net

BOREHOLE 6

Date Drilled: February 10, 2020
Rig: Geoprobe 7822DT
Contractor: CMT Drilling Inc.
Drilling Method: SPT

Elevation: 181.68 m
Logged by: SW

Project No.: 20-026
Project: Geotech - Proposed Church
Location: Ninth Line, Mississauga, ON

Depth (ft/m)	Sample Type	Recovery (%)	Sample Number	Symbols	SOIL DESCRIPTION	Elevation	Depth	Well Installation	Moisture Content % Wp [----X----] Wl 10 20 30 40	Pocket Penetrometer kPa 100 200 300 400 / SPT (N) Blows/0.3 m 20 40 60 80
					Ground Surface (m)	181.68	0.00			
0	SS		1		**TOPSOIL** Loose, dark brown, silty organic topsoil, moist (80mm)	180.92	0.76		15.7	4
1	SS		2		**CLAYEY SILT** Firm, brown, red, and grey mottled clayey silt, some sand and gravel, moist	179.98	1.70		12.5	32
2	SS		3		Becoming hard, brown	179.39	2.29		10.0	50(5")
3	SS		4		**SAND** Very dense, brown sand, trace silt and gravel, moist	178.94	2.74		19.0	44
4	SS		5		Becoming wet, some silt **SILT TILL** Dense, brown silt till, some sand and clay, wet				18.5	54
5	MC5		6						19.5	
6	SS		7			176.96	4.72		10.6	
7	MC5		8		**SANDY CLAYEY SILT TILL** Hard, grey sandy clayey silt till, trace gravel, moist				9.4	50(5")
8	MC5		9		**SAND** Very dense, grey sand, some silt, trace clay and gravel, wet	175.58	6.10		9.4	
9						174.06	7.62		19.3	
					End of Borehole					

Groundwater measured at approximately 4.27 m below ground surface (elev. 177.41 m) on Feb. 12, 2020.

Well Installation: Bentonite; 1" Steel Casing; WL: 4.27 m; #2 Silica Sand; 50mm Slot 10 Screen

CMT ENGINEERING INC.
1011 Industrial Crescent, Unit 1
St. Clements, Ontario N0B 2M0
phone 519-699-5775 fax 519-699-4664
www.cmtinc.net

BOREHOLE 2

Date Drilled: February 12, 2020
Rig: Geoprobe 7822DT
Contractor: CMT Drilling Inc.
Drilling Method: SPT

Elevation: 179.52 m
Logged by: SW

Project No.: 20-026
Project: Geotech - Proposed Church
Location: Ninth Line, Mississauga, ON

Depth (ft/m)	Sample Type	Recovery (%)	Sample Number	Symbols	SOIL DESCRIPTION	Elevation / Depth	Well Installation	Moisture Content % Wp [----X----] Wl 10 20 30 40	Pocket Penetrometer kPa 100 200 300 400 / SPT (N) Blows/0.3 m 20 40 60 80
					Ground Surface (m)	179.52			
0	SS		1		**TOPSOIL** Loose, dark brown, silty organic topsoil, moist (100mm)	0.00		29.9	1
1	SS		2		**CLAYEY SANDY SILT** Very soft, dark brown clayey, sandy silt, trace gravel, with trace organics and rootlets, moist	178.76 0.76		18.3	11
2	SS		3		Becoming stiff, brown, with no organics and rootlets	178.00 1.52		11.0	36
	SS		4		Becoming hard			11.3	50(3")
3	SS		5		**SILT TILL** Very dense, grey silt till, some sand and clay, moist	176.93 2.59		7.7	
4	MC	5	6		**SAND** Very dense, grey sand, some silt, trace clay and gravel, wet	175.61 3.91		8.5	50(4")
5					End of Borehole	174.95 4.57		10.6	
								20.2	
6									
7									
8									

Borehole caved at about 3.05 m below ground surface.

Accumulated groundwater encountered at approximately 2.74 m below ground surface in open borehole.

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BOREHOLE 3

Date Drilled: February 12, 2020
Rig: Geoprobe 7822DT
Contractor: CMT Drilling Inc.
Drilling Method: SPT

Elevation: 180.13 m
Logged by: SW

Project No.: 20-026
Project: Geotech - Proposed Church
Location: Ninth Line, Mississauga, ON

Depth (ft/m)	Sample Type	Recovery (%)	Sample Number	Symbols	SOIL DESCRIPTION	Elevation	Depth	Well Installation	Moisture Content % Wp [----X----] Wl 10 20 30 40	Pocket Penetrometer kPa 100 200 300 400 / SPT (N) Blows/0.3 m 20 40 60 80
					Ground Surface (m)	180.13	0.00			
0	SS		1		**TOPSOIL** Loose, dark brown, silty organic topsoil, moist (90mm)				26.1	3
1	SS		2		**CLAYEY SILT** Soft, brown and dark brown mottled clayey silt, some sand, trace gravel, organics and rootlets, moist	179.37	0.76		13.3	30
2	SS		3		Becoming very stiff, brown, no organics and rootlets	178.61	1.52		13.7	35
	SS		4		Becoming hard				10.8	54
3	SS		5						12.8	50(6")
4	MC		6		**SILT TILL** Very dense, light brown silt till, some clay and sand, moist	176.52	3.61		14.5	
									12.9	
5	SS		7		**SANDY CLAYEY SILT TILL** Hard, grey sandy clayey silt till, trace gravel, moist	175.46	4.67		10.2	36
6					End of Borehole	174.95	5.18			
7										
8										

Borehole caved at about 5.03 m below ground surface.

Accumulated groundwater encountered at approximately 4.72 m below ground surface in open borehole.

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BOREHOLE 4

Date Drilled: February 12, 2020
Rig: Geoprobe 7822DT
Contractor: CMT Drilling Inc.
Drilling Method: SPT

Elevation: 182.49 m
Logged by: SW

Project No.: 20-026
Project: Geotech - Proposed Church
Location: Ninth Line, Mississauga, ON

Depth (ft/m)	Sample Type	Recovery (%)	Sample Number	Symbols	SOIL DESCRIPTION	Elevation	Depth	Well Installation	Moisture Content % Wp [----X----] Wl	Pocket Penetrometer kPa	SPT (N) Blows/0.3 m
					Ground Surface (m)	182.49	0.00				
0	SS		1		**TOPSOIL** Loose, dark brown, silty organic topsoil, moist (100mm)				23.9	3	
1	SS		2		**CLAYEY SILT** Soft, brown and dark brown mottled clayey silt, some sand, trace gravel, organics and rootlets, moist	181.73	0.76		14.4		30
2	SS		3		Becoming very stiff, brown, no organics and rootlets				13.3		28
	SS		4		Becoming hard	180.20	2.29		12.3		45
3	SS		5		**SANDY CLAYEY SILT TILL** Very dense, brown sandy clayey silt till, trace gravel, moist	179.29	3.20		11.0		50(4")
4	MC5		6		Becoming grey	178.68	3.81		12.0		
									10.0		
	SS		7		**SILT TILL** Dense, grey silt till, some sand and clay, moist	177.77	4.72		13.3		41
5					End of Borehole	177.31	5.18				
6											
7											
8											

Borehole caved at about 4.67 m below ground surface.

No accumulated groundwater encountered in open borehole.

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BOREHOLE 7

Date Drilled: February 12, 2020
Rig: Geoprobe 7822DT
Contractor: CMT Drilling Inc.
Drilling Method: SPT

Elevation: 179.02 m
Logged by: SW

Project No.: 20-026
Project: Geotech - Proposed Church
Location: Ninth Line, Mississauga, ON

Depth (ft/m)	Sample Type	Recovery (%)	Sample Number	Symbols	SOIL DESCRIPTION	Elevation	Depth	Well Installation	Moisture Content % Wp [----X----] Wl 10 20 30 40	Pocket Penetrometer kPa 100 200 300 400 / SPT (N) Blows/0.3 m 20 40 60 80
					Ground Surface (m)	179.02	0.00			
0	SS		1		**TOPSOIL** Loose, dark brown, silty organic topsoil, moist (50mm)				16.4	7
1	SS		2		**CLAYEY SILT** Soft to firm, brown and dark brown mottled clayey silt, some sand, trace gravel, organics and rootlets, moist	178.26	0.76		12.8	26
2	SS		3		Becoming very stiff, brown, no organics and rootlets	177.29	1.73		11.6	36
	SS		4		Becoming hard, red				11.1	56
3	SS		5		**SILT TILL** Dense, grey silt till, some sand and clay, moist	175.97	3.05		8.4	48
4	MC		6						8.8	
5	SS		7			173.84	5.18		9.0	28
					End of Borehole					
6										
7					Borehole open to termination.					
8					No accumulated groundwater encountered in open borehole.					

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St. Clements, Ontario N0B 2M0
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LOG OF DRILLING OPERATIONS

MW8

R.J. Burnside & Associates Limited

Client: **St. Mark and St. Demiana Orthodox Church**	Project Name: **Phase Two ESA Mississauga**	Logged by: **C. Dermott**
Project No.: **300044049.1000**	Location: **Part Lot 9, RCP 1542, Ninth Line**	Ground (m amsl): **181.27**
Drilling Co.: **CMT Drilling Inc.**	Date Started: **3/8/2022**	Static Water Level Depth (m): **2.78**
Drilling Method: **Geo Probe**	Date Completed: **3/8/2022**	Sand Pack Depth (m) : **4.57 - 7.62**

Surface Elevation (m): **181.27**

Depth Scale (ft)	Depth Scale (m)	Stratigraphic Description	Depth (m)
		Topsoil	
		Silty Clay Brown, fine grain, moist, no plasticity, non-cohesive	1.52
		Silty Clay	2.44
		Silty Sand	5.18
			7.62

cement

bentonite seal

stainless steel screen

7.62

SAMPLE Num.	Type	Int.	N.Val
	CS		100
	CS		100
	CS		100
	CS		100
	CS		100

Prepared By: **K. Langstaff** Checked By: **KL** Date Prepared: **4/14/2022**

This borehole log was prepared for hydrogeological and/or environmental purposes and does not necessarily contain information suitable for a geotechnical assessment of the subsurface conditions. Borehole data requires interpretation by R. J. Burnside & Associates Limited personnel before use by others.

LEGEND

- Water found @ time of drilling
- Static Water Level - 3/29/2022

MONITORING WELL DATA

- Pipe: **25.4 mm dia. PVC**
- Screen: **25.4 mm dia. PVC #10 slot**

SAMPLE TYPE

- AC Auger Cutting
- CS Continuous
- RC Rock Core
- SS Split Spoon
- AR Air Rotary
- WC Wash Cuttings

Notice of Collection of Personal Information

Personal information contained on this form is collected pursuant to sections 35-50 and 75(2) of the *Ontario Water Resources Act* and section 16.3 of the Wells Regulation. This information will be used for the purpose of maintaining a public record of wells in Ontario. This form and the information contained on the form will be stored in the Ministry's well record database and made publicly available. Questions about this collection should be directed to the Water Well Customer Service Representative at the Wells Help Desk, 125 Resources Road, Toronto Ontario M9P 3V6, at 1-888-396-9355 or wellshelpdesk@ontario.ca.

Fields marked with an asterisk (*) are mandatory.

Well Tag Number *
A 343234

Type *

☑ Construction ☐ Abandonment

Measurement recorded in: *

☐ Metric ☑ Imperial

1. Well Owner's Information

Last Name and First Name, or Organization is mandatory. *

Last Name	First Name
Moheb	Michael
Organization	**Email Address**
The Diocese of Mississauga, Vancouver & Western Can	

Current Address

Unit Number	Street Number *	Street Name *	City/Town/Village
	2188	Robinwood Court	Mississauga

Country	Province	Postal Code	Telephone Number
Canada	ON	L5M 5B9	

2. Well Location

Address of Well Location

Unit Number	Street Number *	Street Name *	Township
	75m NE	Ninth Line	

Lot	Concession	County/District/Municipality

City/Town	Province	Postal Code
Oakville	Ontario	

UTM Coordinates	Zone *	Easting *	Northing *		Municipal Plan and Sublot Number
NAD 83	17	604183	4819287	Test UTM in Map	

Other

3. Overburden and Bedrock Material *

Well Depth * 25 (ft)

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To

				(ft)	(ft)
Brown	Fill	Topsoil		0	5
Brown	Silt	Clay	Dense	5	8
Grey	Silt	Clay	Dense	8	17
Grey	Silt	Sand		17	25

4. Annular Space *

Depth From (ft)	Depth To (ft)	Type of Sealant Used (Material and Type)	Volume Placed (cubic feet)
0	13	3/8 HOLEPLUG	0.26
13	25	#2 Sand	0.23

5. Method of Construction *

☐ Cable Tool ☐ Rotary (Conventional) ☐ Rotary (Reverse) ☐ Boring ☐ Air percussion ☐ Diamond
☐ Jetting ☐ Driving ☐ Digging ☐ Rotary (Air) ☑ Augering ☐ Direct Push
☐ Other (specify) _____

6. Well Use *

☐ Public ☐ Industrial ☐ Cooling & Air Conditioning
☐ Domestic ☐ Commercial ☐ Not Used
☐ Livestock ☐ Municipal ☑ Monitoring
☐ Irrigation ☐ Test Hole ☐ Dewatering
☐ Other (specify) _____

7. Status of Well *

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

8. Construction Record - Casing * (use negative number(s) to indicate depth above ground surface)

Inside Diameter (in)	Open Hole **or** Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness	Depth From (ft)	Depth To (ft)
1.5	Plastic	0.145	0	15

9. Construction Record - Screen

Outside Diameter (in)	Material (Plastic, Galvanized, Steel)	Slot Number	Depth From (ft)	Depth To (ft)
1.9	Plastic	10	15	25

10. Water Details

Water found at Depth (ft) ☐ Gas Kind of water ☐ Fresh ☐ Untested ☐ Other

11. Hole Diameter

Depth From (ft)	Depth To (ft)	Diameter (in)
0	25	4

12. Results of Well Yield Testing

☐ Pumping Discontinued

Explain _____

If flowing give rate

☐ Flowing _____ (GPM)

Draw down

Time (min)	Static Level	1	2	3	4	5	10	15	20	25	30	40	50	60
Water Level (ft)														

Recovery

Time (min)	1	2	3	4	5	10	15	20	25	30	40	50	60
Water Level (ft)													

After test of well yield, water was

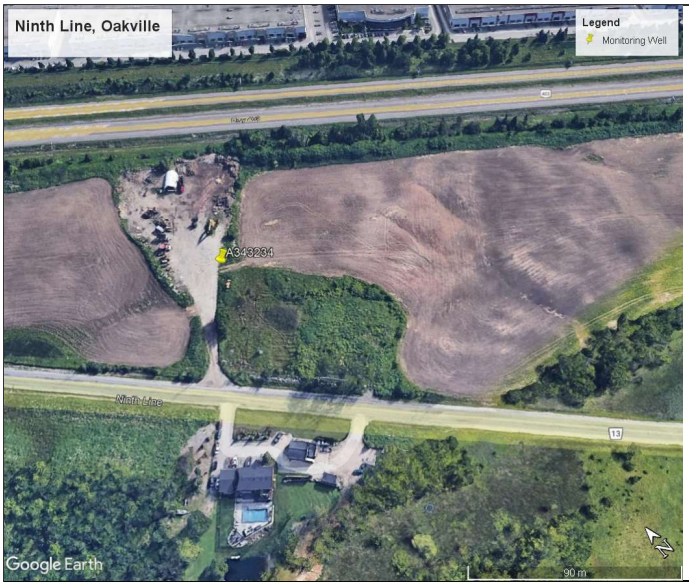
☐ Clear and sand free ☐ Other (specify)

Pump intake set at (ft)	Pumping rate (GPM)	Duration of pumping hrs + min	Final water level end of pumping (ft)	Disinfected? * ☐ Yes ☑ No

Recommended pump depth (ft)	Recommended pump rate (GPM)	Well production (GPM)

13. Map of Well Location *

Map 1. Please Click the map area below to import an image file to use as the map. ☐ Make map area bigger



14. Information

Well owner's information package delivered	Date Package Delivered (yyyy/mm/dd)	Date Work Completed (yyyy/mm/dd) *
☐ Yes ☐ No		2022/03/08

Comments

15. Well Contractor and Well Technician Information

Business Name of Well Contractor *	Well Contractor's License Number *
CMT DRILLING INC	7366

Business Address

Unit Number	Street Number	Street Name *
1	1011	INDUSTRIAL CRES

City/Town/Village *	Province	Postal Code *
ST CLEMENTS	ON	N0B 2M0

Business Telephone Number	Business Email Address
519-699-5775	info@cmtinc.net

Last Name of Well Technician *	First Name of Well Technician *	Well Technician's License Number *
BLACK	CHRIS	3711

16. Declaration *

☑ I hereby confirm that I am the person who constructed the well and I hereby confirm that the information on the form is correct and accurate.

Last Name	First Name	Email Address
BLACK	CHRIS	cblack@cmtinc.net

Signature		Date Submitted (yyyy/mm/dd)
Chris Black	Digitally signed by Chris Black Date: 2022.03.21 15:07:00 -04'00'	2022/03/21

17. Ministry Use Only

Audit Number

4ZB2 F8SG

BURNSIDE

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Appendix E

Photographs

Photo 1: From the northwest side of the Site, looking southeast across the cultivated field.

Photo 2: Groundwater monitoring well MW1 is in agricultural field in the northwest part of the Site.

Photo 3: Looking southeast at Geoprobe drilling borehole BH1-B beside monitoring well MW1-21.

Photo 4: Soil cores extracted from borehole BH1-B to a depth of 6.1 m with Geoprobe continuous core sampling method using Macrocore MC5 dual tube sampling system.

Photo 5: Looking west at groundwater well MW5-21. Ninth Line is at west boundary.

Photo 6: Looking northwest from groundwater monitoring well MW5-21 toward Access Storage.

Photo 7: Geoprobe drilling borehole BH5-B beside groundwater monitoring well MW5-21.

Photo 8: Soil cores extracted from borehole BH5-B to a depth of 6.1 m with Geoprobe continuous core sampling method using Macrocore MC5 dual tube sampling system.

Photo 9: Looking northeast at groundwater monitoring well MW6-21 beside shelter structure.

Photo 10: Geoprobe drilling borehole BH6-B beside monitoring well MW6-21 near former tanks.

Photo 11: Soil cores extracted from borehole BH6-B to a depth of 6.1 m with Geoprobe continuous core method using Macrocore MC5 dual tube sampling system.

Photo 12: Looking south at Geoprobe drilling borehole BH-8 near east side of the Site.

Photo 13: Groundwater monitoring well MW8-22 installed at BH8 at edge of driveway.

Photo 14: Soil cores extracted from borehole BH8 to a depth of 7.6 m with Geoprobe continuous core sampling method using Macrocore MC5 dual tube sampling system.

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Appendix F

Certificates of Analysis - Soil

AGAT Laboratories

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

CLIENT NAME: R.J. BURNSIDE & ASSOCIATES LTD.
15 Townline
Orangeville, ON L9W3R4
(519) 941-5331
ATTENTION TO: Caitlin Dermott
PROJECT: 300044049
AGAT WORK ORDER: 22T872007
SOIL ANALYSIS REVIEWED BY: Nivine Basily, Inorganics Report Writer
TRACE ORGANICS REVIEWED BY: Pinkal Patel, Report Reviewer
DATE REPORTED: Mar 18, 2022
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

Disclaimer:

- *All work conducted herein has been done using accepted standard protocols, and generally accepted practices and methods. AGAT test methods may incorporate modifications from the specified reference methods to improve performance.*
- *All samples will be disposed of within 30 days following analysis, unless expressly agreed otherwise in writing. Please contact your Client Project Manager if you require additional sample storage time.*
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- *The test results reported herewith relate only to the samples as received by the laboratory.*
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Certificate of Analysis

AGAT WORK ORDER: 22T872007

PROJECT: 300044049

CLIENT NAME: R.J. BURNSIDE & ASSOCIATES LTD.

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Mississauga

SAMPLED BY:Caitlin Dermott, Sarah Beney

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

DATE RECEIVED: 2022-03-10

DATE REPORTED: 2022-03-18

SAMPLE DESCRIPTION:				BH8	BH5-B	BH5-B Dup	BH1-B	BH6-B
SAMPLE TYPE:				Soil	Soil	Soil	Soil	Soil
DATE SAMPLED:				2022-03-08 12:00	2022-03-08 14:00	2022-03-08 14:00	2022-03-08 15:00	2022-03-08 15:45
Parameter	Unit	G / S	RDL	3607396	3607402	3607403	3607404	3607423
Antimony	µg/g	7.5	0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Arsenic	µg/g	18	1	6	3	3	5	<1
Barium	µg/g	390	2.0	114	34.1	38.9	72.6	23.2
Beryllium	µg/g	5	0.4	0.8	<0.4	<0.4	0.7	<0.4
Boron	µg/g	120	5	18	6	6	12	<5
Boron (Hot Water Soluble)	µg/g	1.5	0.10	0.15	0.10	0.10	0.18	<0.10
Cadmium	µg/g	1.2	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	µg/g	160	5	25	11	12	21	7
Cobalt	µg/g	22	0.5	14.8	6.1	5.5	11.5	2.7
Copper	µg/g	180	1.0	37.9	17.3	14.5	29.9	5.2
Lead	µg/g	120	1	9	4	4	24	2
Molybdenum	µg/g	6.9	0.5	0.8	<0.5	<0.5	<0.5	<0.5
Nickel	µg/g	130	1	29	10	10	22	4
Selenium	µg/g	2.4	0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Silver	µg/g	25	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Thallium	µg/g	1	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Uranium	µg/g	23	0.50	0.87	<0.50	<0.50	0.70	<0.50
Vanadium	µg/g	86	0.4	36.9	17.9	19.2	29.3	14.4
Zinc	µg/g	340	5	67	28	29	56	14
Chromium, Hexavalent	µg/g	10	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Cyanide, Free	µg/g	0.051	0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Mercury	µg/g	1.8	0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Electrical Conductivity (2:1)	mS/cm	0.7	0.005	0.203	0.146	0.162	0.216	0.106
Sodium Adsorption Ratio (2:1) (Calc.)	N/A	5	N/A	0.451	0.130	0.152	0.284	0.471
pH, 2:1 CaCl2 Extraction	pH Units	5.0-9.0	NA	6.88	7.17	7.35	7.40	7.40

Certified By:

AGAT Laboratories

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

Certificate of Analysis

AGAT WORK ORDER: 22T872007

PROJECT: 300044049

CLIENT NAME: R.J. BURNSIDE & ASSOCIATES LTD.

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Mississauga

SAMPLED BY:Caitlin Dermott, Sarah Beney

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

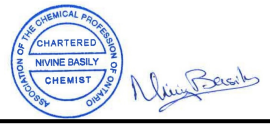
DATE RECEIVED: 2022-03-10 **DATE REPORTED: 2022-03-18**

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to ON T2 S RPI MFT
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.

3607396-3607423 EC was determined on the DI water extract obtained from the 2:1 leaching procedure (2 parts DI water:1 part soil). pH was determined on the 0.01M CaCl2 extract prepared at 2:1 ratio. SAR is a calculated parameter.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:



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AGAT WORK ORDER: 22T872007

PROJECT: 300044049

CLIENT NAME: R.J. BURNSIDE & ASSOCIATES LTD.

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Mississauga

SAMPLED BY:Caitlin Dermott, Sarah Beney

Particle Size by Sieve (Wet)

DATE RECEIVED: 2022-03-10

DATE REPORTED: 2022-03-18

				SAMPLE DESCRIPTION:	BH8	BH1-B
				SAMPLE TYPE:	Soil	Soil
				DATE SAMPLED:	2022-03-08 12:00	2022-03-08 15:00
Parameter	**Unit**	**G / S**	**RDL**		**3607396**	**3607404**
Sieve Analysis - 75 µm (retained)	%		NA		20.20	35.60
Sieve Analysis - 75 µm (passing)	%		NA		79.80	64.40
Soil Texture (Toronto)					Fine	Fine

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to ON T2 S RPI MFT
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.

3607396-3607404 Value reported is the amount of sample passing through or retained on sieve after wash with water and represents proportion by weight particles smaller or larger than indicated sieve size.

Analysis performed at AGAT Toronto (unless marked by *)

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AGAT WORK ORDER: 22T872007

PROJECT: 300044049

CLIENT NAME: R.J. BURNSIDE & ASSOCIATES LTD.

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Mississauga

SAMPLED BY:Caitlin Dermott, Sarah Beney

O. Reg. 153(511) - BNA (full) + PAHs (Soil)

DATE RECEIVED: 2022-03-10

DATE REPORTED: 2022-03-18

		SAMPLE DESCRIPTION:		BH8	BH8 Dup	BH5-B	BH1-B	BH6-B
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2022-03-08 12:00	2022-03-08 12:00	2022-03-08 14:00	2022-03-08 15:00	2022-03-08 15:45
Parameter	Unit	G / S	RDL	3607396	3607400	3607402	3607404	3607423
Naphthalene	µg/g	0.75	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Acenaphthylene	µg/g	0.17	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Acenaphthene	µg/g	29	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Fluorene	µg/g	69	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Phenanthrene	µg/g	7.8	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Anthracene	µg/g	0.74	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Fluoranthene	µg/g	0.69	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Pyrene	µg/g	78	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benz(a)anthracene	µg/g	0.63	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Chrysene	µg/g	7.8	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(b)fluoranthene	µg/g	0.78	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/g	0.78	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/g	0.3	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-cd)pyrene	µg/g	0.48	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibenzo(a,h)anthracene	µg/g	0.1	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/g	7.8	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Phenol	µg/g	9.4	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethyl)ether	µg/g	0.5	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-Chlorophenol	µg/g	2	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o-Cresol	µg/g		0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bis(2-chloroisopropyl)ether	µg/g	1.8	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m & p - Cresol	µg/g		0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,4-Dimethylphenol	µg/g	53	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4-Dichlorophenol	µg/g	0.27	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,4-Trichlorobenzene	µg/g	1.4	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
p-Chloroaniline	µg/g	0.53	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1 and 2 Methlynaphthalene	µg/g	3.4	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
2,4,6-Trichlorophenol	µg/g	2.9	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,4,5-Trichlorophenol	µg/g	5.5	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

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AGAT WORK ORDER: 22T872007

PROJECT: 300044049

CLIENT NAME: R.J. BURNSIDE & ASSOCIATES LTD.

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Mississauga

SAMPLED BY:Caitlin Dermott, Sarah Beney

O. Reg. 153(511) - BNA (full) + PAHs (Soil)

DATE RECEIVED: 2022-03-10

DATE REPORTED: 2022-03-18

		SAMPLE DESCRIPTION:		BH8	BH8 Dup	BH5-B	BH1-B	BH6-B
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2022-03-08 12:00	2022-03-08 12:00	2022-03-08 14:00	2022-03-08 15:00	2022-03-08 15:45
Parameter	**Unit**	**G / S**	**RDL**	**3607396**	**3607400**	**3607402**	**3607404**	**3607423**
1,1-Biphenyl	µg/g	1.1	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dimethyl Phthalate	µg/g	0.5	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,4 and 2,6-Dinitrotoluene	µg/g	0.5	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Diethyl Phthalate	µg/g	0.5	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pentachlorophenol	µg/g	0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3,3'-Dichlorobenzidine	µg/g		0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-Dinitrophenol	µg/g	2.9	2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Bis(2-Ethylhexyl)phthalate	µg/g	5	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Moisture Content	%		0.1	16.3	11.0	17.1	12.8	12.1
wet weight BNA	g		0.01	10.90	10.56	10.55	10.37	10.95
Surrogate	**Unit**	**Acceptable Limits**						
phenol-d6 surrogate	%	50-140		74	95	76	80	94
2-Fluorophenol	%	50-140		75	61	67	65	67
2,4,6-Tribromophenol	%	50-140		76	76	91	65	88
Chrysene-d12	%	50-140		92	102	77	87	85

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to ON T2 S RPI MFT
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.

3607396-3607423 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.

Analysis performed at AGAT Toronto (unless marked by *)

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AGAT WORK ORDER: 22T872007

PROJECT: 300044049

CLIENT NAME: R.J. BURNSIDE & ASSOCIATES LTD.

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Mississauga

SAMPLED BY:Caitlin Dermott, Sarah Beney

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

DATE RECEIVED: 2022-03-10

DATE REPORTED: 2022-03-18

SAMPLE DESCRIPTION:				BH8	BH5-B	BH1-B	BH1-B Dup	BH6-B
SAMPLE TYPE:				Soil	Soil	Soil	Soil	Soil
DATE SAMPLED:				2022-03-08 12:00	2022-03-08 14:00	2022-03-08 15:00	2022-03-08 15:00	2022-03-08 15:45
Parameter	Unit	G / S	RDL	3607396	3607402	3607404	3607420	3607423
Gamma-Hexachlorocyclohexane	µg/g	0.063	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Heptachlor	µg/g	0.15	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Aldrin	µg/g	0.05	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Heptachlor Epoxide	µg/g	0.05	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Endosulfan I	µg/g		0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Endosulfan II	µg/g		0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Endosulfan	µg/g	0.04	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Alpha-Chlordane	µg/g		0.005	<0.005	<0.005	<0.005	<0.005	<0.005
gamma-Chlordane	µg/g		0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chlordane	µg/g	0.05	0.007	<0.007	<0.007	<0.007	<0.007	<0.007
op'-DDD	µg/g		0.005	<0.005	<0.005	<0.005	<0.005	<0.005
pp'-DDD	µg/g		0.005	<0.005	<0.005	<0.005	<0.005	<0.005
DDD	µg/g	3.3	0.007	<0.007	<0.007	<0.007	<0.007	<0.007
op'-DDE	ug/g		0.005	<0.005	<0.005	<0.005	<0.005	<0.005
pp'-DDE	µg/g		0.005	<0.005	<0.005	<0.005	<0.005	<0.005
DDE	µg/g	0.33	0.007	<0.007	<0.007	<0.007	<0.007	<0.007
op'-DDT	µg/g		0.005	<0.005	<0.005	<0.005	<0.005	<0.005
pp'-DDT	µg/g		0.005	<0.005	<0.005	<0.005	<0.005	<0.005
DDT	µg/g	1.4	0.007	<0.007	<0.007	<0.007	<0.007	<0.007
Dieldrin	µg/g	0.05	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Endrin	µg/g	0.04	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Methoxychlor	µg/g	0.13	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Hexachlorobenzene	µg/g	0.52	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Hexachlorobutadiene	µg/g	0.014	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Hexachloroethane	µg/g	0.07	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Aroclor 1242	µg/g		0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Aroclor 1248	µg/g		0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Aroclor 1254	µg/g		0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Aroclor 1260	µg/g		0.10	<0.10	<0.10	<0.10	<0.10	<0.10

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AGAT WORK ORDER: 22T872007

PROJECT: 300044049

CLIENT NAME: R.J. BURNSIDE & ASSOCIATES LTD.

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Mississauga

SAMPLED BY:Caitlin Dermott, Sarah Beney

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

DATE RECEIVED: 2022-03-10 **DATE REPORTED: 2022-03-18**

				SAMPLE DESCRIPTION:	BH8	BH5-B	BH1-B	BH1-B Dup	BH6-B
				SAMPLE TYPE:	Soil	Soil	Soil	Soil	Soil
				DATE SAMPLED:	2022-03-08 12:00	2022-03-08 14:00	2022-03-08 15:00	2022-03-08 15:00	2022-03-08 15:45
Parameter	**Unit**	**G / S**	**RDL**		**3607396**	**3607402**	**3607404**	**3607420**	**3607423**
Polychlorinated Biphenyls	µg/g	0.35	0.10		<0.10	<0.10	<0.10	<0.10	<0.10
Moisture Content	%		0.1		16.3	17.1	12.8	17.2	12.1
wet weight OC/PCB	g		NA		1041	10.25	10.32	10.74	10.18
Surrogate	**Unit**	**Acceptable Limits**							
TCMX	%	50-140			69	80	75	98	84
Decachlorobiphenyl	%	50-140			88	93	87	96	108

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to ON T2 S RPI MFT
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.

3607396-3607423 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.
PCB total is a calculated parameter. The calculated value is the sum of Aroclor 1242, Aroclor 1248, Aroclor 1254 and Aroclor 1260.
The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: Jinkal Patel

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ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Mississauga

SAMPLED BY:Caitlin Dermott, Sarah Beney

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

DATE RECEIVED: 2022-03-10 **DATE REPORTED: 2022-03-18**

		SAMPLE DESCRIPTION:		BH6-B Dup
		SAMPLE TYPE:		Soil
		DATE SAMPLED:		2022-03-08 15:45
Parameter	**Unit**	**G / S**	**RDL**	**3607496**
Naphthalene	µg/g	0.75	0.05	<0.05
Acenaphthylene	µg/g	0.17	0.05	<0.05
Acenaphthene	µg/g	29	0.05	<0.05
Fluorene	µg/g	69	0.05	<0.05
Phenanthrene	µg/g	7.8	0.05	<0.05
Anthracene	µg/g	0.74	0.05	<0.05
Fluoranthene	µg/g	0.69	0.05	<0.05
Pyrene	µg/g	78	0.05	<0.05
Benz(a)anthracene	µg/g	0.63	0.05	<0.05
Chrysene	µg/g	7.8	0.05	<0.05
Benzo(b)fluoranthene	µg/g	0.78	0.05	<0.05
Benzo(k)fluoranthene	µg/g	0.78	0.05	<0.05
Benzo(a)pyrene	µg/g	0.3	0.05	<0.05
Indeno(1,2,3-cd)pyrene	µg/g	0.48	0.05	<0.05
Dibenz(a,h)anthracene	µg/g	0.1	0.05	<0.05
Benzo(g,h,i)perylene	µg/g	7.8	0.05	<0.05
1 and 2 Methlynaphthalene	µg/g	3.4	0.05	<0.05
Moisture Content	%		0.1	15.3
Surrogate	**Unit**	**Acceptable Limits**		
Naphthalene-d8	%	50-140		85
Acridine-d9	%	50-140		79
Terphenyl-d14	%	50-140		85

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to ON T2 S RPI MFT
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.

3607496 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: Jinkal Patel

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AGAT WORK ORDER: 22T872007

PROJECT: 300044049

CLIENT NAME: R.J. BURNSIDE & ASSOCIATES LTD.

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Mississauga

SAMPLED BY:Caitlin Dermott, Sarah Beney

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

DATE RECEIVED: 2022-03-10 **DATE REPORTED: 2022-03-18**

				SAMPLE DESCRIPTION:	BH8	BH8 Dup	BH5-B	BH1-B	BH6-B	BH6-B Dup
				SAMPLE TYPE:	Soil	Soil	Soil	Soil	Soil	Soil
				DATE SAMPLED:	2022-03-08 12:00	2022-03-08 12:00	2022-03-08 14:00	2022-03-08 15:00	2022-03-08 15:45	2022-03-08 15:45
Parameter	**Unit**	**G / S**	**RDL**		**3607396**	**3607400**	**3607402**	**3607404**	**3607423**	**3607496**
F1 (C6 - C10)	µg/g	65	5		<5	<5	<5	<5	<5	<5
F1 (C6 to C10) minus BTEX	µg/g	65	5		<5	<5	<5	<5	<5	<5
F2 (C10 to C16)	µg/g	150	10		<10	<10	<10	<10	**180**	<10
F2 (C10 to C16) minus Naphthalene	µg/g		10		<10	<10	<10	<10	180	<10
F3 (C16 to C34)	µg/g	1300	50		<50	<50	<50	<50	110	<50
F3 (C16 to C34) minus PAHs	µg/g		50		<50	<50	<50	<50	110	<50
F4 (C34 to C50)	µg/g	5600	50		<50	<50	<50	<50	<50	<50
Gravimetric Heavy Hydrocarbons	µg/g	5600	50		NA	NA	NA	NA	NA	NA
Moisture Content	%		0.1		16.3	11.0	17.1	12.8	12.1	15.3
Surrogate	**Unit**	**Acceptable Limits**								
Toluene-d8	% Recovery	50-140			108	105	116	106	116	107
Terphenyl	%	60-140			104	91	98	100	90	111

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to ON T2 S RPI MFT
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.

3607396-3607496 Results are based on sample dry weight.
The C6-C10 fraction is calculated using toluene response factor.
C6–C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX. The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.
The chromatogram has returned to baseline by the retention time of nC50.
Total C6 - C50 results are corrected for BTEX and PAH contributions.
C>10 – C16 (F2- Naphthalene) is a calculated parameter. The calculated value is F2 - Naphthalene.
C>16 - C34 (F3-PAH) is a calculated parameter. The calculated value is F3-PAH (PAH: sum of Phenanthrene, Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Fluoranthene, Dibenzo(a,h)anthracene, Indeno(1,2,3-c,d)pyrene and Pyrene).
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC10, nC16 and nC34 response factors are within 10% of their average.
C50 response factor is within 70% of nC10 + nC16 + nC34 average.
Linearity is within 15%.
Extraction and holding times were met for this sample.

Analysis performed at AGAT Toronto (unless marked by *)

K. Langstaff comments on PHCs F1 - F4 analytical results for sample **BH6-B**:
- Duplicate field sample **BH6-B Dup** did not have any detections of PHC F1, F2, F3, or F4.
- Average PHC F2 concentration of the 2 samples **BH6-B** and **BH6-B Dup** does not exceed Institutional Use soil standard of 150 µg/g PHC F2.

Certified By:

AGAT Laboratories

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AGAT WORK ORDER: 22T872007

PROJECT: 300044049

CLIENT NAME: R.J. BURNSIDE & ASSOCIATES LTD.

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Mississauga

SAMPLED BY:Caitlin Dermott, Sarah Beney

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

DATE RECEIVED: 2022-03-10

DATE REPORTED: 2022-03-18

SAMPLE DESCRIPTION:				BH8	BH8 Dup	BH5-B	BH1-B	BH6-B	BH6-B Dup
SAMPLE TYPE:				Soil	Soil	Soil	Soil	Soil	Soil
DATE SAMPLED:				2022-03-08 12:00	2022-03-08 12:00	2022-03-08 14:00	2022-03-08 15:00	2022-03-08 15:45	2022-03-08 15:45
Parameter	Unit	G / S	RDL	3607396	3607400	3607402	3607404	3607423	3607496
Dichlorodifluoromethane	µg/g	25	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Vinyl Chloride	ug/g	0.022	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Bromomethane	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Trichlorofluoromethane	ug/g	5.8	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Acetone	ug/g	28	0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethylene	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Methylene Chloride	ug/g	0.96	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Trans- 1,2-Dichloroethylene	ug/g	0.75	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Methyl tert-butyl Ether	ug/g	1.4	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1-Dichloroethane	ug/g	0.6	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Methyl Ethyl Ketone	ug/g	44	0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Cis- 1,2-Dichloroethylene	ug/g	2.5	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Chloroform	ug/g	0.18	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
1,2-Dichloroethane	ug/g	0.05	0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
1,1,1-Trichloroethane	ug/g	3.4	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Carbon Tetrachloride	ug/g	0.12	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzene	ug/g	0.17	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
1,2-Dichloropropane	ug/g	0.085	0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Trichloroethylene	ug/g	0.52	0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Bromodichloromethane	ug/g	1.9	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Methyl Isobutyl Ketone	ug/g	4.3	0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	ug/g	0.05	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Toluene	ug/g	6	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibromochloromethane	ug/g	2.9	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylene Dibromide	ug/g	0.05	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Tetrachloroethylene	ug/g	2.3	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1,1,2-Tetrachloroethane	ug/g	0.05	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Chlorobenzene	ug/g	2.7	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylbenzene	ug/g	1.6	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

Certified By: Pinkal Patel

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Certificate of Analysis

AGAT WORK ORDER: 22T872007

PROJECT: 300044049

CLIENT NAME: R.J. BURNSIDE & ASSOCIATES LTD.

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Mississauga

SAMPLED BY:Caitlin Dermott, Sarah Beney

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

DATE RECEIVED: 2022-03-10

DATE REPORTED: 2022-03-18

		SAMPLE DESCRIPTION:		BH8	BH8 Dup	BH5-B	BH1-B	BH6-B	BH6-B Dup
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2022-03-08 12:00	2022-03-08 12:00	2022-03-08 14:00	2022-03-08 15:00	2022-03-08 15:45	2022-03-08 15:45
Parameter	**Unit**	**G / S**	**RDL**	**3607396**	**3607400**	**3607402**	**3607404**	**3607423**	**3607496**
m & p-Xylene	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Bromoform	ug/g	0.26	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Styrene	ug/g	2.2	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1,2,2-Tetrachloroethane	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
o-Xylene	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,3-Dichlorobenzene	ug/g	6	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,4-Dichlorobenzene	ug/g	0.097	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,2-Dichlorobenzene	ug/g	1.7	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Xylenes (Total)	ug/g	25	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,3-Dichloropropene (Cis + Trans)	µg/g	0.081	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
n-Hexane	µg/g	34	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Moisture Content	%		0.1	16.3	11.0	17.1	12.8	12.1	15.3
Surrogate	**Unit**	**Acceptable Limits**							
Toluene-d8	% Recovery	50-140		116	120	105	98	112	110
4-Bromofluorobenzene	% Recovery	50-140		104	108	104	103	106	108

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to ON T2 S RPI MFT
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.

3607396-3607496 The sample was analyzed using the high level technique. The sample was extracted using methanol, a small amount of the methanol extract was diluted in water and the purge & trap GC/MS analysis was performed. Results are based on the dry weight of the soil.
Xylenes total is a calculated parameter. The calculated value is the sum of m&p-Xylene + o-Xylene.
1,3-Dichloropropene total is a calculated parameter. The calculated value is the sum of Cis-1,3-Dichloropropene and Trans-1,3-Dichloropropene.
The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: Pinkal Patel

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Guideline Violation

AGAT WORK ORDER: 22T872007

PROJECT: 300044049

CLIENT NAME: R.J. BURNSIDE & ASSOCIATES LTD.

ATTENTION TO: Caitlin Dermott

SAMPLEID	SAMPLE TITLE	GUIDELINE	ANALYSIS PACKAGE	PARAMETER	UNIT	GUIDEVALUE	RESULT
3607423	BH6-B	ON T2 S RPI MFT	O. Reg. 153(511) - PHCs F1 - F4 (with PAHs and VOC) (Soil)	F2 (C10 to C16)	µg/g	150	180

K. Langstaff comments on PHCs F1 - F4 analytical results for Sample **BH6-B**:

- Duplicate field sample **BH6-B Dup** did not have any detections of PHC F1, F2, F3, or F4.
- Sample **BH6-B** and Duplicate field sample **BH6-B Dup** did not have any detections of volatile organic compounds related to petroleum hydrocarbons or any other VOCs.
- The average PHC F2 concentration of the two samples (BH6-B and BH6-B Dup) does not exceed the applicable soil standard concentration of 150 µg/g for PHC F2.

The PHC F2 results for soil samples collected from Borehole BH6-B are considered to be within the applicable Institutional Use standard of 150 µg/g PHC F2 listed in Table 2 SCS.

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Quality Assurance

CLIENT NAME: R.J. BURNSIDE & ASSOCIATES LTD.
AGAT WORK ORDER: 22T872007
PROJECT: 300044049
ATTENTION TO: Caitlin Dermott
SAMPLING SITE:Mississauga
SAMPLED BY:Caitlin Dermott, Sarah Beney

Soil Analysis

RPT Date: Mar 18, 2022			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - Metals & Inorganics (Soil)															
Antimony	3607396	3607396	<0.8	<0.8	NA	< 0.8	124%	70%	130%	95%	80%	120%	96%	70%	130%
Arsenic	3607396	3607396	6	5	14.6%	< 1	113%	70%	130%	100%	80%	120%	99%	70%	130%
Barium	3607396	3607396	114	80.5	34.4%	< 2.0	104%	70%	130%	104%	80%	120%	97%	70%	130%
Beryllium	3607396	3607396	0.8	0.8	NA	< 0.4	91%	70%	130%	109%	80%	120%	98%	70%	130%
Boron	3607396	3607396	18	15	NA	< 5	78%	70%	130%	106%	80%	120%	83%	70%	130%
Boron (Hot Water Soluble)	3607396	3607396	0.15	0.14	NA	< 0.10	97%	60%	140%	109%	70%	130%	117%	60%	140%
Cadmium	3607396	3607396	<0.5	<0.5	NA	< 0.5	96%	70%	130%	105%	80%	120%	105%	70%	130%
Chromium	3607396	3607396	25	24	NA	< 5	98%	70%	130%	108%	80%	120%	105%	70%	130%
Cobalt	3607396	3607396	14.8	14.6	1.4%	< 0.5	103%	70%	130%	111%	80%	120%	106%	70%	130%
Copper	3607396	3607396	37.9	34.3	10.1%	< 1.0	93%	70%	130%	111%	80%	120%	92%	70%	130%
Lead	3607396	3607396	9	9	2.2%	< 1	105%	70%	130%	105%	80%	120%	99%	70%	130%
Molybdenum	3607396	3607396	0.8	0.7	NA	< 0.5	106%	70%	130%	106%	80%	120%	103%	70%	130%
Nickel	3607396	3607396	29	28	3.4%	< 1	100%	70%	130%	108%	80%	120%	99%	70%	130%
Selenium	3607396	3607396	<0.8	<0.8	NA	< 0.8	121%	70%	130%	105%	80%	120%	108%	70%	130%
Silver	3607396	3607396	<0.5	<0.5	NA	< 0.5	100%	70%	130%	103%	80%	120%	98%	70%	130%
Thallium	3607396	3607396	<0.5	<0.5	NA	< 0.5	107%	70%	130%	106%	80%	120%	100%	70%	130%
Uranium	3607396	3607396	0.87	0.84	NA	< 0.50	108%	70%	130%	103%	80%	120%	102%	70%	130%
Vanadium	3607396	3607396	36.9	33.7	9.1%	< 0.4	106%	70%	130%	106%	80%	120%	108%	70%	130%
Zinc	3607396	3607396	67	61	8.8%	< 5	102%	70%	130%	112%	80%	120%	99%	70%	130%
Chromium, Hexavalent	3609562		<0.2	<0.2	NA	< 0.2	94%	70%	130%	97%	80%	120%	87%	70%	130%
Cyanide, Free	3548867		<0.040	<0.040	NA	< 0.040	99%	70%	130%	102%	80%	120%	104%	70%	130%
Mercury	3607396	3607396	<0.10	<0.10	NA	< 0.10	109%	70%	130%	103%	80%	120%	102%	70%	130%
Electrical Conductivity (2:1)	3607396	3607396	0.203	0.201	0.9%	< 0.005	99%	80%	120%						
Sodium Adsorption Ratio (2:1) (Calc.)	3607396	3607396	0.451	0.446	1.1%	NA									
pH, 2:1 CaCl2 Extraction	3611052		6.33	6.66	5.0%	NA	101%	80%	120%						

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

Particle Size by Sieve (Wet)

Sieve Analysis - 75 µm (retained)	3608902	31.20	30.40	2.6%	NA	103%	70%	130%	
Sieve Analysis - 75 µm (passing)	3608902	68.80	69.60	1.2%	NA				

Comments: NA Signifies Not Applicable

Certified By:

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Quality Assurance

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AGAT WORK ORDER: 22T872007
PROJECT: 300044049
ATTENTION TO: Caitlin Dermott
SAMPLING SITE:Mississauga
SAMPLED BY:Caitlin Dermott, Sarah Beney

Trace Organics Analysis

RPT Date: Mar 18, 2022

PARAMETER	Batch	Sample Id	DUPLICATE Dup #1	DUPLICATE Dup #2	DUPLICATE RPD	Method Blank	REFERENCE MATERIAL Measured Value	REFERENCE MATERIAL Acceptable Limits Lower	REFERENCE MATERIAL Acceptable Limits Upper	METHOD BLANK SPIKE Recovery	METHOD BLANK SPIKE Acceptable Limits Lower	METHOD BLANK SPIKE Acceptable Limits Upper	MATRIX SPIKE Recovery	MATRIX SPIKE Acceptable Limits Lower	MATRIX SPIKE Acceptable Limits Upper
O. Reg. 153(511) - PHCs F1 - F4 (with PAHs and VOC) (Soil)															
F1 (C6 - C10)	3611668		<5	<5	NA	< 5	NA	60%	140%	NA	60%	140%	93%	60%	140%
F2 (C10 to C16)	3607423	3607423	180	140	25.0%	< 10	102%	60%	140%	107%	60%	140%	86%	60%	140%
F3 (C16 to C34)	3607423	3607423	110	77	NA	< 50	104%	60%	140%	109%	60%	140%	66%	60%	140%
F4 (C34 to C50)	3607423	3607423	< 50	< 50	NA	< 50	96%	60%	140%	88%	60%	140%		60%	140%
O. Reg. 153(511) - BNA (full) + PAHs (Soil)															
Naphthalene	3607396	3607396	< 0.05	< 0.05	NA	< 0.05	114%	50%	140%	101%	50%	140%	96%	50%	140%
Acenaphthylene	3607396	3607396	< 0.05	< 0.05	NA	< 0.05	103%	50%	140%	92%	50%	140%	80%	50%	140%
Acenaphthene	3607396	3607396	< 0.05	< 0.05	NA	< 0.05	116%	50%	140%	95%	50%	140%	83%	50%	140%
Fluorene	3607396	3607396	< 0.05	< 0.05	NA	< 0.05	117%	50%	140%	97%	50%	140%	84%	50%	140%
Phenanthrene	3607396	3607396	< 0.05	< 0.05	NA	< 0.05	115%	50%	140%	105%	50%	140%	81%	50%	140%
Anthracene	3607396	3607396	< 0.05	< 0.05	NA	< 0.05	104%	50%	140%	100%	50%	140%	76%	50%	140%
Fluoranthene	3607396	3607396	< 0.05	< 0.05	NA	< 0.05	91%	50%	140%	76%	50%	140%	78%	50%	140%
Pyrene	3607396	3607396	< 0.05	< 0.05	NA	< 0.05	87%	50%	140%	74%	50%	140%	65%	50%	140%
Benz(a)anthracene	3607396	3607396	< 0.05	< 0.05	NA	< 0.05	75%	50%	140%	64%	50%	140%	79%	50%	140%
Chrysene	3607396	3607396	< 0.05	< 0.05	NA	< 0.05	78%	50%	140%	65%	50%	140%	72%	50%	140%
Benzo(b)fluoranthene	3607396	3607396	< 0.05	< 0.05	NA	< 0.05	105%	50%	140%	72%	50%	140%	64%	50%	140%
Benzo(k)fluoranthene	3607396	3607396	< 0.05	< 0.05	NA	< 0.05	103%	50%	140%	72%	50%	140%	78%	50%	140%
Benzo(a)pyrene	3607396	3607396	< 0.05	< 0.05	NA	< 0.05	101%	50%	140%	74%	50%	140%	68%	50%	140%
Indeno(1,2,3-cd)pyrene	3607396	3607396	< 0.05	< 0.05	NA	< 0.05	93%	50%	140%	63%	50%	140%	67%	50%	140%
Dibenzo(a,h)anthracene	3607396	3607396	< 0.05	< 0.05	NA	< 0.05	101%	50%	140%	72%	50%	140%	69%	50%	140%
Benzo(g,h,i)perylene	3607396	3607396	< 0.05	< 0.05	NA	< 0.05	88%	50%	140%	73%	50%	140%	61%	50%	140%
Phenol	3607396	3607396	< 0.5	< 0.5	NA	< 0.5	91%	30%	130%	64%	30%	130%	112%	30%	130%
Bis(2-chloroethyl)ether	3607396	3607396	< 0.1	< 0.1	NA	< 0.1	94%	50%	140%	75%	50%	140%	91%	50%	140%
2-Chlorophenol	3607396	3607396	< 0.1	< 0.1	NA	< 0.1	115%	50%	140%	82%	50%	140%	68%	50%	140%
o-Cresol	3607396	3607396	< 0.1	< 0.1	NA	< 0.1	105%	50%	140%	79%	50%	140%	68%	50%	140%
Bis(2-chloroisopropyl)ether	3607396	3607396	< 0.1	< 0.1	NA	< 0.1	89%	50%	140%	97%	50%	140%	83%	50%	140%
m & p - Cresol	3607396	3607396	< 0.1	< 0.1	NA	< 0.1	109%	50%	140%	84%	50%	140%	71%	50%	140%
2,4-Dimethylphenol	3607396	3607396	< 0.2	< 0.2	NA	< 0.2	107%	30%	130%	78%	30%	130%	76%	30%	130%
2,4-Dichlorophenol	3607396	3607396	< 0.1	< 0.1	NA	< 0.1	100%	50%	140%	70%	50%	140%	72%	50%	140%
1,2,4-Trichlorobenzene	3607396	3607396	< 0.05	< 0.05	NA	< 0.05	109%	50%	140%	106%	50%	140%	94%	50%	140%
p-Chloroaniline	3607396	3607396	< 0.5	< 0.5	NA	< 0.5	64%	30%	130%	65%	30%	130%	64%	30%	130%
2,4,6-Trichlorophenol	3607396	3607396	< 0.1	< 0.1	NA	< 0.1	78%	50%	140%	96%	50%	140%	77%	50%	140%
2,4,5-Trichlorophenol	3607396	3607396	< 0.1	< 0.1	NA	< 0.1	85%	50%	140%	75%	50%	140%	83%	50%	140%
1,1-Biphenyl	3607396	3607396	< 0.05	< 0.05	NA	< 0.05	NA	50%	140%	106%	50%	140%	94%	50%	140%
Dimethyl Phthalate	3607396	3607396	< 0.1	< 0.1	NA	< 0.1	110%	50%	140%	93%	50%	140%	78%	50%	140%
Diethyl Phthalate	3607396	3607396	< 0.1	< 0.1	NA	< 0.1	100%	50%	140%	85%	50%	140%	83%	50%	140%
Pentachlorophenol	3607396	3607396	< 0.1	< 0.1	NA	< 0.1	50%	50%	140%	104%	50%	140%	80%	50%	140%
3,3'-Dichlorobenzidine	3607396	3607396	< 0.5	< 0.5	NA	< 0.5	51%	30%	130%	100%	30%	130%	100%	30%	130%
2,4-Dinitrophenol	3607396	3607396	< 2.0	< 2.0	NA	< 2.0	53%	30%	130%	81%	30%	130%	53%	30%	130%

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Quality Assurance

CLIENT NAME: R.J. BURNSIDE & ASSOCIATES LTD.
AGAT WORK ORDER: 22T872007
PROJECT: 300044049
ATTENTION TO: Caitlin Dermott
SAMPLING SITE:Mississauga
SAMPLED BY:Caitlin Dermott, Sarah Beney

Trace Organics Analysis (Continued)

RPT Date: Mar 18, 2022			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
Bis(2-Ethylhexyl)phthalate	3607396	3607396	< 0.2	< 0.2	NA	< 0.2	92%	50%	140%	74%	50%	140%	61%	50%	140%
O. Reg. 153(511) - OC Pesticides + PCBs (Soil)															
Gamma-Hexachlorocyclohexane	3609737		< 0.005	< 0.005	NA	< 0.005	80%	50%	140%	86%	50%	140%	83%	50%	140%
Heptachlor	3609737		< 0.005	< 0.005	NA	< 0.005	86%	50%	140%	96%	50%	140%	91%	50%	140%
Aldrin	3609737		< 0.005	< 0.005	NA	< 0.005	95%	50%	140%	90%	50%	140%	83%	50%	140%
Heptachlor Epoxide	3609737		< 0.005	< 0.005	NA	< 0.005	89%	50%	140%	79%	50%	140%	80%	50%	140%
Endosulfan I	3609737		< 0.005	< 0.005	NA	< 0.005	90%	50%	140%	84%	50%	140%	83%	50%	140%
Endosulfan II	3609737		< 0.005	< 0.005	NA	< 0.005	93%	50%	140%	80%	50%	140%	81%	50%	140%
Alpha-Chlordane	3609737		< 0.005	< 0.005	NA	< 0.005	89%	50%	140%	88%	50%	140%	83%	50%	140%
gamma-Chlordane	3609737		< 0.005	< 0.005	NA	< 0.005	91%	50%	140%	88%	50%	140%	83%	50%	140%
op'-DDD	3609737		< 0.005	< 0.005	NA	< 0.005	91%	50%	140%	94%	50%	140%	90%	50%	140%
pp'-DDD	3609737		< 0.005	< 0.005	NA	< 0.005	83%	50%	140%	95%	50%	140%	88%	50%	140%
op'-DDE	3609737		< 0.005	< 0.005	NA	< 0.005	90%	50%	140%	101%	50%	140%	100%	50%	140%
pp'-DDE	3609737		< 0.005	< 0.005	NA	< 0.005	84%	50%	140%	100%	50%	140%	90%	50%	140%
op'-DDT	3609737		< 0.005	< 0.005	NA	< 0.005	88%	50%	140%	101%	50%	140%	97%	50%	140%
pp'-DDT	3609737		< 0.005	< 0.005	NA	< 0.005	80%	50%	140%	92%	50%	140%	97%	50%	140%
Dieldrin	3609737		< 0.005	< 0.005	NA	< 0.005	90%	50%	140%	85%	50%	140%	84%	50%	140%
Endrin	3609737		< 0.005	< 0.005	NA	< 0.005	84%	50%	140%	76%	50%	140%	89%	50%	140%
Methoxychlor	3609737		< 0.005	< 0.005	NA	< 0.005	80%	50%	140%	89%	50%	140%	98%	50%	140%
Hexachlorobenzene	3609737		< 0.005	< 0.005	NA	< 0.005	98%	50%	140%	98%	50%	140%	90%	50%	140%
Hexachlorobutadiene	3609737		< 0.01	< 0.01	NA	< 0.01	82%	50%	140%	80%	50%	140%	87%	50%	140%
Hexachloroethane	3609737		< 0.01	< 0.01	NA	< 0.01	89%	50%	140%	95%	50%	140%	88%	50%	140%
Aroclor 1242	3609737		< 0.10	< 0.10	NA	< 0.10	98%	50%	140%	NA	50%	140%	NA	50%	140%
Aroclor 1248	3609737		< 0.10	< 0.10	NA	< 0.10	92%	50%	140%	NA	50%	140%	NA	50%	140%
Aroclor 1254	3609737		< 0.10	< 0.10	NA	< 0.10	100%	50%	140%	NA	50%	140%	NA	50%	140%
Aroclor 1260	3609737		< 0.10	< 0.10	NA	< 0.10	99%	50%	140%	NA	50%	140%	NA	50%	140%
Polychlorinated Biphenyls	3609737		< 0.10	< 0.10	NA	< 0.10	100%	50%	140%	101%	50%	140%	110%	50%	140%
O. Reg. 153(511) - VOCs (Soil)															
Dichlorodifluoromethane	3611668		<0.05	<0.05	NA	< 0.05	72%	50%	140%	73%	50%	140%	100%	50%	140%
Vinyl Chloride	3611668		<0.02	<0.02	NA	< 0.02	111%	50%	140%	91%	50%	140%	111%	50%	140%
Bromomethane	3611668		<0.05	<0.05	NA	< 0.05	106%	50%	140%	100%	50%	140%	86%	50%	140%
Trichlorofluoromethane	3611668		<0.05	<0.05	NA	< 0.05	105%	50%	140%	102%	50%	140%	104%	50%	140%
Acetone	3611668		<0.50	<0.50	NA	< 0.50	100%	50%	140%	97%	50%	140%	95%	50%	140%
1,1-Dichloroethylene	3611668		<0.05	<0.05	NA	< 0.05	84%	50%	140%	102%	60%	130%	102%	50%	140%
Methylene Chloride	3611668		<0.05	<0.05	NA	< 0.05	119%	50%	140%	94%	60%	130%	98%	50%	140%
Trans- 1,2-Dichloroethylene	3611668		<0.05	<0.05	NA	< 0.05	92%	50%	140%	88%	60%	130%	102%	50%	140%
Methyl tert-butyl Ether	3611668		<0.05	<0.05	NA	< 0.05	87%	50%	140%	94%	60%	130%	111%	50%	140%
1,1-Dichloroethane	3611668		<0.02	<0.02	NA	< 0.02	86%	50%	140%	115%	60%	130%	90%	50%	140%
Methyl Ethyl Ketone	3611668		<0.50	<0.50	NA	< 0.50	106%	50%	140%	102%	50%	140%	99%	50%	140%

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Quality Assurance

CLIENT NAME: R.J. BURNSIDE & ASSOCIATES LTD.
AGAT WORK ORDER: 22T872007
PROJECT: 300044049
ATTENTION TO: Caitlin Dermott
SAMPLING SITE:Mississauga
SAMPLED BY:Caitlin Dermott, Sarah Beney

Trace Organics Analysis (Continued)

RPT Date: Mar 18, 2022			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
Cis- 1,2-Dichloroethylene	3611668		<0.02	<0.02	NA	< 0.02	77%	50%	140%	81%	60%	130%	94%	50%	140%
Chloroform	3611668		<0.04	<0.04	NA	< 0.04	108%	50%	140%	105%	60%	130%	93%	50%	140%
1,2-Dichloroethane	3611668		<0.03	<0.03	NA	< 0.03	103%	50%	140%	102%	60%	130%	82%	50%	140%
1,1,1-Trichloroethane	3611668		<0.05	<0.05	NA	< 0.05	97%	50%	140%	92%	60%	130%	107%	50%	140%
Carbon Tetrachloride	3611668		<0.05	<0.05	NA	< 0.05	116%	50%	140%	103%	60%	130%	78%	50%	140%
Benzene	3611668		<0.02	<0.02	NA	< 0.02	86%	50%	140%	90%	60%	130%	97%	50%	140%
1,2-Dichloropropane	3611668		<0.03	<0.03	NA	< 0.03	106%	50%	140%	96%	60%	130%	78%	50%	140%
Trichloroethylene	3611668		<0.03	<0.03	NA	< 0.03	98%	50%	140%	103%	60%	130%	94%	50%	140%
Bromodichloromethane	3611668		<0.05	<0.05	NA	< 0.05	82%	50%	140%	87%	60%	130%	77%	50%	140%
Methyl Isobutyl Ketone	3611668		<0.50	<0.50	NA	< 0.50	104%	50%	140%	101%	50%	140%	100%	50%	140%
1,1,2-Trichloroethane	3611668		<0.04	<0.04	NA	< 0.04	107%	50%	140%	113%	60%	130%	100%	50%	140%
Toluene	3611668		<0.05	<0.05	NA	< 0.05	111%	50%	140%	91%	60%	130%	91%	50%	140%
Dibromochloromethane	3611668		<0.05	<0.05	NA	< 0.05	114%	50%	140%	102%	60%	130%	105%	50%	140%
Ethylene Dibromide	3611668		<0.04	<0.04	NA	< 0.04	112%	50%	140%	108%	60%	130%	84%	50%	140%
Tetrachloroethylene	3611668		<0.05	<0.05	NA	< 0.05	78%	50%	140%	97%	60%	130%	87%	50%	140%
1,1,1,2-Tetrachloroethane	3611668		<0.04	<0.04	NA	< 0.04	99%	50%	140%	104%	60%	130%	110%	50%	140%
Chlorobenzene	3611668		<0.05	<0.05	NA	< 0.05	87%	50%	140%	106%	60%	130%	120%	50%	140%
Ethylbenzene	3611668		<0.05	<0.05	NA	< 0.05	88%	50%	140%	100%	60%	130%	112%	50%	140%
m & p-Xylene	3611668		<0.05	<0.05	NA	< 0.05	109%	50%	140%	106%	60%	130%	115%	50%	140%
Bromoform	3611668		<0.05	<0.05	NA	< 0.05	101%	50%	140%	98%	60%	130%	119%	50%	140%
Styrene	3611668		<0.05	<0.05	NA	< 0.05	81%	50%	140%	102%	60%	130%	83%	50%	140%
1,1,2,2-Tetrachloroethane	3611668		<0.05	<0.05	NA	< 0.05	89%	50%	140%	96%	60%	130%	83%	50%	140%
o-Xylene	3611668		<0.05	<0.05	NA	< 0.05	99%	50%	140%	100%	60%	130%	102%	50%	140%
1,3-Dichlorobenzene	3611668		<0.05	<0.05	NA	< 0.05	98%	50%	140%	108%	60%	130%	81%	50%	140%
1,4-Dichlorobenzene	3611668		<0.05	<0.05	NA	< 0.05	93%	50%	140%	95%	60%	130%	73%	50%	140%
1,2-Dichlorobenzene	3611668		<0.05	<0.05	NA	< 0.05	99%	50%	140%	106%	60%	130%	89%	50%	140%
n-Hexane	3611668		<0.05	<0.05	NA	< 0.05	94%	50%	140%	100%	60%	130%	102%	50%	140%

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

Certified By:

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Method Summary

CLIENT NAME: R.J. BURNSIDE & ASSOCIATES LTD.

AGAT WORK ORDER: 22T872007

PROJECT: 300044049

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Mississauga

SAMPLED BY:Caitlin Dermott, Sarah Beney

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Soil Analysis			
Antimony	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Arsenic	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Barium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Beryllium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Boron	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Boron (Hot Water Soluble)	MET-93-6104	modified from EPA 6010D and MSA PART 3, CH 21	ICP/OES
Cadmium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Chromium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Cobalt	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Copper	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Lead	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Molybdenum	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Nickel	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Selenium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Silver	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Thallium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Uranium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Vanadium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Zinc	MET 93 -6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Chromium, Hexavalent	INOR-93-6068	modified from EPA 3060 and EPA 7196	SPECTROPHOTOMETER
Cyanide, Free	INOR-93-6052	modified from ON MOECC E3015, SM 4500-CN- I, G-387	TECHNICON AUTO ANALYZER
Mercury	MET-93-6103	modified from EPA 7471B and SM 3112 B	ICP-MS
Electrical Conductivity (2:1)	INOR-93-6075	modified from MSA PART 3, CH 14 and SM 2510 B	PC TITRATE
Sodium Adsorption Ratio (2:1) (Calc.)	INOR-93-6007	modified from EPA 6010D & Analytical Protocol	ICP/OES
pH, 2:1 CaCl2 Extraction	INOR-93-6075	modified from EPA 9045D, MCKEAGUE 3.11 E3137	PC TITRATE
Sieve Analysis - 75 µm (retained)	INOR-93-6065	ASTM D1140	SIEVE
Sieve Analysis - 75 µm (passing)	INOR-93-6065	ASTM D1140	SIEVE

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Method Summary

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AGAT WORK ORDER: 22T872007

PROJECT: 300044049

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Mississauga

SAMPLED BY:Caitlin Dermott, Sarah Beney

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Naphthalene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Acenaphthylene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Acenaphthene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Fluorene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Phenanthrene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Anthracene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Fluoranthene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Pyrene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Benz(a)anthracene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Chrysene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Benzo(b)fluoranthene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Benzo(k)fluoranthene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Benzo(a)pyrene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Indeno(1,2,3-cd)pyrene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Dibenzo(a,h)anthracene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Benzo(g,h,i)perylene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Phenol	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Bis(2-chloroethyl)ether	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
2-Chlorophenol	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
o-Cresol	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Bis(2-chloroisopropyl)ether	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
m & p - Cresol	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
2,4-Dimethylphenol	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
2,4-Dichlorophenol	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
1,2,4-Trichlorobenzene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
p-Chloroaniline	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
1 and 2 Methlynaphthalene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	CALCULATION

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Method Summary

CLIENT NAME: R.J. BURNSIDE & ASSOCIATES LTD.

AGAT WORK ORDER: 22T872007

PROJECT: 300044049

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Mississauga

SAMPLED BY:Caitlin Dermott, Sarah Beney

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
2,4,6-Trichlorophenol	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
2,4,5-Trichlorophenol	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
1,1-Biphenyl	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Dimethyl Phthalate	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
2,4 and 2,6-Dinitrotoluene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	CALCULATION
Diethyl Phthalate	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Pentachlorophenol	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
3,3'-Dichlorobenzidine	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
2,4-Dinitrophenol	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Bis(2-Ethylhexyl)phthalate	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
phenol-d6 surrogate	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
2-Fluorophenol	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
2,4,6-Tribromophenol	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Chrysene-d12	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Moisture Content	VOL-91-5009	CCME Tier 1 Method	BALANCE
wet weight BNA	ORG-91-5114		BALANCE
Gamma-Hexachlorocyclohexane	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
Heptachlor	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
Aldrin	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
Heptachlor Epoxide	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
Endosulfan I	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
Endosulfan II	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
Endosulfan	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
Alpha-Chlordane	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
gamma-Chlordane	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
Chlordane	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	CALCULATION
op'-DDD	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
pp'-DDD	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
DDD	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	CALCULATION

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Method Summary

CLIENT NAME: R.J. BURNSIDE & ASSOCIATES LTD.

AGAT WORK ORDER: 22T872007

PROJECT: 300044049

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Mississauga

SAMPLED BY:Caitlin Dermott, Sarah Beney

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
op'-DDE	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
pp'-DDE	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
DDE	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
op'-DDT	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
pp'-DDT	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
DDT	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	CALCULATION
Dieldrin	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
Endrin	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
Methoxychlor	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
Hexachlorobenzene	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
Hexachlorobutadiene	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
Hexachloroethane	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
Aroclor 1242	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8082A	GC/ECD
Aroclor 1248	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8082A	GC/ECD
Aroclor 1254	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8082A	GC/ECD
Aroclor 1260	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8082A	GC/ECD
Polychlorinated Biphenyls	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8082A	GC/ECD
TCMX	ORG-91-5113	modified from EPA SW-846 3541, 3620,8081	GC/ECD
Decachlorobiphenyl	ORG-91-5113	modified from EPA SW-846 3541, 3620,8081	GC/ECD
wet weight OC/PCB	ORG-91-5113		BALANCE
Naphthalene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Acenaphthylene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Acenaphthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Fluorene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Phenanthrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Anthracene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Fluoranthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Pyrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS

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Method Summary

CLIENT NAME: R.J. BURNSIDE & ASSOCIATES LTD.

AGAT WORK ORDER: 22T872007

PROJECT: 300044049

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Mississauga

SAMPLED BY:Caitlin Dermott, Sarah Beney

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Benz(a)anthracene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Chrysene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(b)fluoranthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(k)fluoranthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(a)pyrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Indeno(1,2,3-cd)pyrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Dibenz(a,h)anthracene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(g,h,i)perylene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
1 and 2 Methlynaphthalene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Naphthalene-d8	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Acridine-d9	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Terphenyl-d14	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
F1 (C6 - C10)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/FID
F1 (C6 to C10) minus BTEX	VOL-91-5009	modified from CCME Tier 1 Method	P&T GC/FID
Toluene-d8	VOL-91-5009	modified from EPA SW-846 5030C & 8260D	(P&T)GC/MS
F2 (C10 to C16)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F2 (C10 to C16) minus Naphthalene	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34) minus PAHs	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F4 (C34 to C50)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
Gravimetric Heavy Hydrocarbons	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Terphenyl	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
Dichlorodifluoromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Vinyl Chloride	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Bromomethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Trichlorofluoromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Acetone	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1-Dichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methylene Chloride	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Trans- 1,2-Dichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methyl tert-butyl Ether	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1-Dichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS

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Method Summary

CLIENT NAME: R.J. BURNSIDE & ASSOCIATES LTD.

AGAT WORK ORDER: 22T872007

PROJECT: 300044049

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Mississauga

SAMPLED BY:Caitlin Dermott, Sarah Beney

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Methyl Ethyl Ketone	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Cis- 1,2-Dichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Chloroform	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,2-Dichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1,1-Trichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Carbon Tetrachloride	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Benzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,2-Dichloropropane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Trichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Bromodichloromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methyl Isobutyl Ketone	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1,2-Trichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Toluene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Dibromochloromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Ethylene Dibromide	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Tetrachloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1,1,2-Tetrachloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Chlorobenzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Ethylbenzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
m & p-Xylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Bromoform	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Styrene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1,2,2-Tetrachloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
o-Xylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,3-Dichlorobenzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,4-Dichlorobenzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,2-Dichlorobenzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Xylenes (Total)	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS

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Method Summary

CLIENT NAME: R.J. BURNSIDE & ASSOCIATES LTD.

AGAT WORK ORDER: 22T872007

PROJECT: 300044049

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Mississauga

SAMPLED BY:Caitlin Dermott, Sarah Beney

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
1,3-Dichloropropene (Cis + Trans)	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
n-Hexane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Toluene-d8	VOL-91-5002	modified from EPA 5035A & EPA 8260D	(P&T)GC/MS
4-Bromofluorobenzene	VOL-91-5002	modified from EPA 5035A & EPA 8260D	(P&T)GC/MS
Moisture Content	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE

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CLIENT NAME: R.J. BURNSIDE & ASSOCIATES LTD.
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Orangeville, ON L9W3R4
(519) 941-5331
ATTENTION TO: Caitlin Dermott
PROJECT: 300044049
AGAT WORK ORDER: 22T872007
SOIL ANALYSIS REVIEWED BY: Nivine Basily, Inorganics Report Writer
TRACE ORGANICS REVIEWED BY: Pinkal Patel, Report Reviewer
DATE REPORTED: Mar 18, 2022
PAGES (INCLUDING COVER): 23
VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (905) 712-5100

Notes

Disclaimer:

- *All work conducted herein has been done using accepted standard protocols, and generally accepted practices and methods. AGAT test methods may incorporate modifications from the specified reference methods to improve performance.*
- *All samples will be disposed of within 30 days following analysis, unless expressly agreed otherwise in writing. Please contact your Client Project Manager if you require additional sample storage time.*
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Certificate of Analysis

AGAT WORK ORDER: 22T872007

PROJECT: 300044049

CLIENT NAME: R.J. BURNSIDE & ASSOCIATES LTD.

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Mississauga

SAMPLED BY:Caitlin Dermott, Sarah Beney

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

DATE RECEIVED: 2022-03-10

DATE REPORTED: 2022-03-18

		SAMPLE DESCRIPTION:		BH8	BH5-B	BH5-B Dup	BH1-B	BH6-B
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2022-03-08 12:00	2022-03-08 14:00	2022-03-08 14:00	2022-03-08 15:00	2022-03-08 15:45
Parameter	Unit	G / S	RDL	3607396	3607402	3607403	3607404	3607423
Antimony	µg/g	50	0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Arsenic	µg/g	18	1	6	3	3	5	<1
Barium	µg/g	670	2.0	114	34.1	38.9	72.6	23.2
Beryllium	µg/g	10	0.4	0.8	<0.4	<0.4	0.7	<0.4
Boron	µg/g	120	5	18	6	6	12	<5
Boron (Hot Water Soluble)	µg/g	2	0.10	0.15	0.10	0.10	0.18	<0.10
Cadmium	µg/g	1.9	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	µg/g	160	5	25	11	12	21	7
Cobalt	µg/g	100	0.5	14.8	6.1	5.5	11.5	2.7
Copper	µg/g	300	1.0	37.9	17.3	14.5	29.9	5.2
Lead	µg/g	120	1	9	4	4	24	2
Molybdenum	µg/g	40	0.5	0.8	<0.5	<0.5	<0.5	<0.5
Nickel	µg/g	340	1	29	10	10	22	4
Selenium	µg/g	5.5	0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Silver	µg/g	50	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Thallium	µg/g	3.3	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Uranium	µg/g	33	0.50	0.87	<0.50	<0.50	0.70	<0.50
Vanadium	µg/g	86	0.4	36.9	17.9	19.2	29.3	14.4
Zinc	µg/g	340	5	67	28	29	56	14
Chromium, Hexavalent	µg/g	10	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Cyanide, Free	µg/g	0.051	0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Mercury	µg/g	20	0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Electrical Conductivity (2:1)	mS/cm	1.4	0.005	0.203	0.146	0.162	0.216	0.106
Sodium Adsorption Ratio (2:1) (Calc.)	N/A	12	N/A	0.451	0.130	0.152	0.284	0.471
pH, 2:1 CaCl2 Extraction	pH Units	5.0-9.0	NA	6.88	7.17	7.35	7.40	7.40

Certified By:

AGAT Laboratories

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AGAT WORK ORDER: 22T872007

PROJECT: 300044049

CLIENT NAME: R.J. BURNSIDE & ASSOCIATES LTD.

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Mississauga

SAMPLED BY:Caitlin Dermott, Sarah Beney

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

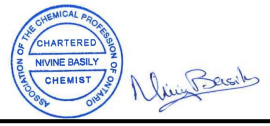
DATE RECEIVED: 2022-03-10 **DATE REPORTED: 2022-03-18**

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to ON T2 S ICC MFT
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.

3607396-3607423 EC was determined on the DI water extract obtained from the 2:1 leaching procedure (2 parts DI water:1 part soil). pH was determined on the 0.01M CaCl2 extract prepared at 2:1 ratio. SAR is a calculated parameter.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:



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AGAT WORK ORDER: 22T872007

PROJECT: 300044049

CLIENT NAME: R.J. BURNSIDE & ASSOCIATES LTD.

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Mississauga

SAMPLED BY:Caitlin Dermott, Sarah Beney

Particle Size by Sieve (Wet)

DATE RECEIVED: 2022-03-10

DATE REPORTED: 2022-03-18

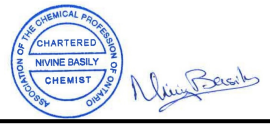
				SAMPLE DESCRIPTION:	BH8	BH1-B
				SAMPLE TYPE:	Soil	Soil
				DATE SAMPLED:	2022-03-08 12:00	2022-03-08 15:00
Parameter	**Unit**	**G / S**	**RDL**		**3607396**	**3607404**
Sieve Analysis - 75 µm (retained)	%		NA		20.20	35.60
Sieve Analysis - 75 µm (passing)	%		NA		79.80	64.40
Soil Texture (Toronto)					Fine	Fine

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to ON T2 S ICC MFT
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.

3607396-3607404 Value reported is the amount of sample passing through or retained on sieve after wash with water and represents proportion by weight particles smaller or larger than indicated sieve size.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:



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AGAT WORK ORDER: 22T872007

PROJECT: 300044049

CLIENT NAME: R.J. BURNSIDE & ASSOCIATES LTD.

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Mississauga

SAMPLED BY:Caitlin Dermott, Sarah Beney

O. Reg. 153(511) - BNA (full) + PAHs (Soil)

DATE RECEIVED: 2022-03-10

DATE REPORTED: 2022-03-18

		SAMPLE DESCRIPTION:		BH8	BH8 Dup	BH5-B	BH1-B	BH6-B
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2022-03-08 12:00	2022-03-08 12:00	2022-03-08 14:00	2022-03-08 15:00	2022-03-08 15:45
Parameter	Unit	G / S	RDL	3607396	3607400	3607402	3607404	3607423
Naphthalene	µg/g	28	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Acenaphthylene	µg/g	0.17	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Acenaphthene	µg/g	29	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Fluorene	µg/g	69	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Phenanthrene	µg/g	16	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Anthracene	µg/g	0.74	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Fluoranthene	µg/g	9.6	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Pyrene	µg/g	96	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benz(a)anthracene	µg/g	0.96	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Chrysene	µg/g	9.6	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(b)fluoranthene	µg/g	0.96	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/g	0.96	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/g	0.3	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-cd)pyrene	µg/g	0.95	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibenzo(a,h)anthracene	µg/g	0.1	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/g	9.6	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Phenol	µg/g	9.4	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethyl)ether	µg/g	0.5	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-Chlorophenol	µg/g	3.9	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o-Cresol	µg/g		0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bis(2-chloroisopropyl)ether	µg/g	13	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m & p - Cresol	µg/g		0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,4-Dimethylphenol	µg/g	53	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4-Dichlorophenol	µg/g	0.27	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,4-Trichlorobenzene	µg/g	16	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
p-Chloroaniline	µg/g	0.53	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1 and 2 Methlynaphthalene	µg/g	42	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
2,4,6-Trichlorophenol	µg/g	2.9	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,4,5-Trichlorophenol	µg/g	10	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

Certified By: Pinkal Patel

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AGAT WORK ORDER: 22T872007

PROJECT: 300044049

CLIENT NAME: R.J. BURNSIDE & ASSOCIATES LTD.

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Mississauga

SAMPLED BY:Caitlin Dermott, Sarah Beney

O. Reg. 153(511) - BNA (full) + PAHs (Soil)

DATE RECEIVED: 2022-03-10

DATE REPORTED: 2022-03-18

		SAMPLE DESCRIPTION:		BH8	BH8 Dup	BH5-B	BH1-B	BH6-B
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2022-03-08 12:00	2022-03-08 12:00	2022-03-08 14:00	2022-03-08 15:00	2022-03-08 15:45
Parameter	**Unit**	**G / S**	**RDL**	**3607396**	**3607400**	**3607402**	**3607404**	**3607423**
1,1-Biphenyl	µg/g	210	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dimethyl Phthalate	µg/g	0.5	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,4 and 2,6-Dinitrotoluene	µg/g	0.5	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Diethyl Phthalate	µg/g	0.5	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pentachlorophenol	µg/g	3.3	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3,3'-Dichlorobenzidine	µg/g		0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-Dinitrophenol	µg/g	2.9	2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Bis(2-Ethylhexyl)phthalate	µg/g	35	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Moisture Content	%		0.1	16.3	11.0	17.1	12.8	12.1
wet weight BNA	g		0.01	10.90	10.56	10.55	10.37	10.95
Surrogate	**Unit**	**Acceptable Limits**						
phenol-d6 surrogate	%	50-140		74	95	76	80	94
2-Fluorophenol	%	50-140		75	61	67	65	67
2,4,6-Tribromophenol	%	50-140		76	76	91	65	88
Chrysene-d12	%	50-140		92	102	77	87	85

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to ON T2 S ICC MFT
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.

3607396-3607423 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.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:

AGAT Laboratories

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AGAT WORK ORDER: 22T872007

PROJECT: 300044049

CLIENT NAME: R.J. BURNSIDE & ASSOCIATES LTD.

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Mississauga

SAMPLED BY:Caitlin Dermott, Sarah Beney

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

DATE RECEIVED: 2022-03-10

DATE REPORTED: 2022-03-18

		SAMPLE DESCRIPTION:		BH8	BH5-B	BH1-B	BH1-B Dup	BH6-B
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2022-03-08 12:00	2022-03-08 14:00	2022-03-08 15:00	2022-03-08 15:00	2022-03-08 15:45
Parameter	Unit	G / S	RDL	3607396	3607402	3607404	3607420	3607423
Gamma-Hexachlorocyclohexane	µg/g	0.063	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Heptachlor	µg/g	0.19	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Aldrin	µg/g	0.11	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Heptachlor Epoxide	µg/g	0.05	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Endosulfan I	µg/g		0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Endosulfan II	µg/g		0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Endosulfan	µg/g	0.38	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Alpha-Chlordane	µg/g		0.005	<0.005	<0.005	<0.005	<0.005	<0.005
gamma-Chlordane	µg/g		0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chlordane	µg/g	0.05	0.007	<0.007	<0.007	<0.007	<0.007	<0.007
op'-DDD	µg/g		0.005	<0.005	<0.005	<0.005	<0.005	<0.005
pp'-DDD	µg/g		0.005	<0.005	<0.005	<0.005	<0.005	<0.005
DDD	µg/g	4.6	0.007	<0.007	<0.007	<0.007	<0.007	<0.007
op'-DDE	ug/g		0.005	<0.005	<0.005	<0.005	<0.005	<0.005
pp'-DDE	µg/g		0.005	<0.005	<0.005	<0.005	<0.005	<0.005
DDE	µg/g	0.65	0.007	<0.007	<0.007	<0.007	<0.007	<0.007
op'-DDT	µg/g		0.005	<0.005	<0.005	<0.005	<0.005	<0.005
pp'-DDT	µg/g		0.005	<0.005	<0.005	<0.005	<0.005	<0.005
DDT	µg/g	1.4	0.007	<0.007	<0.007	<0.007	<0.007	<0.007
Dieldrin	µg/g	0.11	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Endrin	µg/g	0.04	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Methoxychlor	µg/g	1.6	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Hexachlorobenzene	µg/g	0.66	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Hexachlorobutadiene	µg/g	0.095	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Hexachloroethane	µg/g	0.43	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Aroclor 1242	µg/g		0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Aroclor 1248	µg/g		0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Aroclor 1254	µg/g		0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Aroclor 1260	µg/g		0.10	<0.10	<0.10	<0.10	<0.10	<0.10

Certified By:

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AGAT WORK ORDER: 22T872007

PROJECT: 300044049

CLIENT NAME: R.J. BURNSIDE & ASSOCIATES LTD.

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Mississauga

SAMPLED BY:Caitlin Dermott, Sarah Beney

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

DATE RECEIVED: 2022-03-10

DATE REPORTED: 2022-03-18

				SAMPLE DESCRIPTION:	BH8	BH5-B	BH1-B	BH1-B Dup	BH6-B
				SAMPLE TYPE:	Soil	Soil	Soil	Soil	Soil
				DATE SAMPLED:	2022-03-08 12:00	2022-03-08 14:00	2022-03-08 15:00	2022-03-08 15:00	2022-03-08 15:45
Parameter	**Unit**	**G / S**	**RDL**		**3607396**	**3607402**	**3607404**	**3607420**	**3607423**
Polychlorinated Biphenyls	µg/g	1.1	0.10		<0.10	<0.10	<0.10	<0.10	<0.10
Moisture Content	%		0.1		16.3	17.1	12.8	17.2	12.1
wet weight OC/PCB	g		NA		1041	10.25	10.32	10.74	10.18
Surrogate	**Unit**	**Acceptable Limits**							
TCMX	%	50-140			69	80	75	98	84
Decachlorobiphenyl	%	50-140			88	93	87	96	108

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to ON T2 S ICC MFT
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.

3607396-3607423 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.
PCB total is a calculated parameter. The calculated value is the sum of Aroclor 1242, Aroclor 1248, Aroclor 1254 and Aroclor 1260.
The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: Jinkal Patel

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AGAT WORK ORDER: 22T872007

PROJECT: 300044049

CLIENT NAME: R.J. BURNSIDE & ASSOCIATES LTD.

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Mississauga

SAMPLED BY:Caitlin Dermott, Sarah Beney

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

DATE RECEIVED: 2022-03-10 **DATE REPORTED: 2022-03-18**

		SAMPLE DESCRIPTION:		BH6-B Dup
		SAMPLE TYPE:		Soil
		DATE SAMPLED:		2022-03-08 15:45
Parameter	**Unit**	**G / S**	**RDL**	**3607496**
Naphthalene	µg/g	28	0.05	<0.05
Acenaphthylene	µg/g	0.17	0.05	<0.05
Acenaphthene	µg/g	29	0.05	<0.05
Fluorene	µg/g	69	0.05	<0.05
Phenanthrene	µg/g	16	0.05	<0.05
Anthracene	µg/g	0.74	0.05	<0.05
Fluoranthene	µg/g	9.6	0.05	<0.05
Pyrene	µg/g	96	0.05	<0.05
Benz(a)anthracene	µg/g	0.96	0.05	<0.05
Chrysene	µg/g	9.6	0.05	<0.05
Benzo(b)fluoranthene	µg/g	0.96	0.05	<0.05
Benzo(k)fluoranthene	µg/g	0.96	0.05	<0.05
Benzo(a)pyrene	µg/g	0.3	0.05	<0.05
Indeno(1,2,3-cd)pyrene	µg/g	0.95	0.05	<0.05
Dibenz(a,h)anthracene	µg/g	0.1	0.05	<0.05
Benzo(g,h,i)perylene	µg/g	9.6	0.05	<0.05
1 and 2 Methlynaphthalene	µg/g	42	0.05	<0.05
Moisture Content	%		0.1	15.3
Surrogate	**Unit**	**Acceptable Limits**		
Naphthalene-d8	%	50-140		85
Acridine-d9	%	50-140		79
Terphenyl-d14	%	50-140		85

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to ON T2 S ICC MFT
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.

3607496 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: Pinkal Patel

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AGAT WORK ORDER: 22T872007

PROJECT: 300044049

CLIENT NAME: R.J. BURNSIDE & ASSOCIATES LTD.

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Mississauga

SAMPLED BY:Caitlin Dermott, Sarah Beney

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

DATE RECEIVED: 2022-03-10 **DATE REPORTED: 2022-03-18**

				SAMPLE DESCRIPTION:	BH8	BH8 Dup	BH5-B	BH1-B	BH6-B	BH6-B Dup
				SAMPLE TYPE:	Soil	Soil	Soil	Soil	Soil	Soil
				DATE SAMPLED:	2022-03-08 12:00	2022-03-08 12:00	2022-03-08 14:00	2022-03-08 15:00	2022-03-08 15:45	2022-03-08 15:45
Parameter	**Unit**	**G / S**	**RDL**		**3607396**	**3607400**	**3607402**	**3607404**	**3607423**	**3607496**
F1 (C6 - C10)	µg/g	65	5		<5	<5	<5	<5	<5	<5
F1 (C6 to C10) minus BTEX	µg/g	65	5		<5	<5	<5	<5	<5	<5
F2 (C10 to C16)	µg/g	250	10		<10	<10	<10	<10	180	<10
F2 (C10 to C16) minus Naphthalene	µg/g		10		<10	<10	<10	<10	180	<10
F3 (C16 to C34)	µg/g	2500	50		<50	<50	<50	<50	110	<50
F3 (C16 to C34) minus PAHs	µg/g		50		<50	<50	<50	<50	110	<50
F4 (C34 to C50)	µg/g	6600	50		<50	<50	<50	<50	<50	<50
Gravimetric Heavy Hydrocarbons	µg/g	6600	50		NA	NA	NA	NA	NA	NA
Moisture Content	%		0.1		16.3	11.0	17.1	12.8	12.1	15.3
Surrogate	**Unit**	**Acceptable Limits**								
Toluene-d8	% Recovery	50-140			108	105	116	106	116	107
Terphenyl	%	60-140			104	91	98	100	90	111

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to ON T2 S ICC MFT
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.

3607396-3607496 Results are based on sample dry weight.
The C6-C10 fraction is calculated using toluene response factor.
C6–C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX. The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.
The chromatogram has returned to baseline by the retention time of nC50.
Total C6 - C50 results are corrected for BTEX and PAH contributions.
C>10 – C16 (F2- Naphthalene) is a calculated parameter. The calculated value is F2 - Naphthalene.
C>16 - C34 (F3-PAH) is a calculated parameter. The calculated value is F3-PAH (PAH: sum of Phenanthrene, Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Fluoranthene, Dibenzo(a,h)anthracene, Indeno(1,2,3-c,d)pyrene and Pyrene).
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC10, nC16 and nC34 response factors are within 10% of their average.
C50 response factor is within 70% of nC10 + nC16 + nC34 average.
Linearity is within 15%.
Extraction and holding times were met for this sample.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: Pinkal Patel

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Certificate of Analysis

AGAT WORK ORDER: 22T872007

PROJECT: 300044049

CLIENT NAME: R.J. BURNSIDE & ASSOCIATES LTD.

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Mississauga

SAMPLED BY:Caitlin Dermott, Sarah Beney

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

DATE RECEIVED: 2022-03-10

DATE REPORTED: 2022-03-18

SAMPLE DESCRIPTION:				BH8	BH8 Dup	BH5-B	BH1-B	BH6-B	BH6-B Dup
SAMPLE TYPE:				Soil	Soil	Soil	Soil	Soil	Soil
DATE SAMPLED:				2022-03-08 12:00	2022-03-08 12:00	2022-03-08 14:00	2022-03-08 15:00	2022-03-08 15:45	2022-03-08 15:45
Parameter	Unit	G / S	RDL	3607396	3607400	3607402	3607404	3607423	3607496
Dichlorodifluoromethane	µg/g	25	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Vinyl Chloride	ug/g	0.25	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Bromomethane	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Trichlorofluoromethane	ug/g	5.8	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Acetone	ug/g	28	0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethylene	ug/g	0.48	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Methylene Chloride	ug/g	2	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Trans- 1,2-Dichloroethylene	ug/g	2.5	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Methyl tert-butyl Ether	ug/g	2.3	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1-Dichloroethane	ug/g	0.6	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Methyl Ethyl Ketone	ug/g	88	0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Cis- 1,2-Dichloroethylene	ug/g	2.5	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Chloroform	ug/g	0.18	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
1,2-Dichloroethane	ug/g	0.05	0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
1,1,1-Trichloroethane	ug/g	12	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Carbon Tetrachloride	ug/g	0.71	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzene	ug/g	0.4	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
1,2-Dichloropropane	ug/g	0.68	0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Trichloroethylene	ug/g	0.61	0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Bromodichloromethane	ug/g	1.9	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Methyl Isobutyl Ketone	ug/g	210	0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	ug/g	0.11	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Toluene	ug/g	9	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibromochloromethane	ug/g	2.9	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylene Dibromide	ug/g	0.05	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Tetrachloroethylene	ug/g	2.5	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1,1,2-Tetrachloroethane	ug/g	0.11	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Chlorobenzene	ug/g	2.7	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylbenzene	ug/g	1.6	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

Certified By:

AGAT Laboratories

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Certificate of Analysis

AGAT WORK ORDER: 22T872007

PROJECT: 300044049

CLIENT NAME: R.J. BURNSIDE & ASSOCIATES LTD.

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Mississauga

SAMPLED BY:Caitlin Dermott, Sarah Beney

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

DATE RECEIVED: 2022-03-10

DATE REPORTED: 2022-03-18

		SAMPLE DESCRIPTION:		BH8	BH8 Dup	BH5-B	BH1-B	BH6-B	BH6-B Dup
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2022-03-08 12:00	2022-03-08 12:00	2022-03-08 14:00	2022-03-08 15:00	2022-03-08 15:45	2022-03-08 15:45
Parameter	**Unit**	**G / S**	**RDL**	**3607396**	**3607400**	**3607402**	**3607404**	**3607423**	**3607496**
m & p-Xylene	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Bromoform	ug/g	1.7	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Styrene	ug/g	43	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1,2,2-Tetrachloroethane	ug/g	0.094	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
o-Xylene	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,3-Dichlorobenzene	ug/g	12	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,4-Dichlorobenzene	ug/g	0.57	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,2-Dichlorobenzene	ug/g	1.7	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Xylenes (Total)	ug/g	30	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,3-Dichloropropene (Cis + Trans)	µg/g	0.081	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
n-Hexane	µg/g	88	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Moisture Content	%		0.1	16.3	11.0	17.1	12.8	12.1	15.3
Surrogate	**Unit**	**Acceptable Limits**							
Toluene-d8	% Recovery	50-140		116	120	105	98	112	110
4-Bromofluorobenzene	% Recovery	50-140		104	108	104	103	106	108

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to ON T2 S ICC MFT
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.

3607396-3607496 The sample was analyzed using the high level technique. The sample was extracted using methanol, a small amount of the methanol extract was diluted in water and the purge & trap GC/MS analysis was performed. Results are based on the dry weight of the soil.
Xylenes total is a calculated parameter. The calculated value is the sum of m&p-Xylene + o-Xylene.
1,3-Dichloropropene total is a calculated parameter. The calculated value is the sum of Cis-1,3-Dichloropropene and Trans-1,3-Dichloropropene.
The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: Pinkal Patel

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Quality Assurance

CLIENT NAME: R.J. BURNSIDE & ASSOCIATES LTD.

AGAT WORK ORDER: 22T872007

PROJECT: 300044049

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Mississauga

SAMPLED BY:Caitlin Dermott, Sarah Beney

Soil Analysis

RPT Date: Mar 18, 2022			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - Metals & Inorganics (Soil)															
Antimony	3607396	3607396	<0.8	<0.8	NA	< 0.8	124%	70%	130%	95%	80%	120%	96%	70%	130%
Arsenic	3607396	3607396	6	5	14.6%	< 1	113%	70%	130%	100%	80%	120%	99%	70%	130%
Barium	3607396	3607396	114	80.5	34.4%	< 2.0	104%	70%	130%	104%	80%	120%	97%	70%	130%
Beryllium	3607396	3607396	0.8	0.8	NA	< 0.4	91%	70%	130%	109%	80%	120%	98%	70%	130%
Boron	3607396	3607396	18	15	NA	< 5	78%	70%	130%	106%	80%	120%	83%	70%	130%
Boron (Hot Water Soluble)	3607396	3607396	0.15	0.14	NA	< 0.10	97%	60%	140%	109%	70%	130%	117%	60%	140%
Cadmium	3607396	3607396	<0.5	<0.5	NA	< 0.5	96%	70%	130%	105%	80%	120%	105%	70%	130%
Chromium	3607396	3607396	25	24	NA	< 5	98%	70%	130%	108%	80%	120%	105%	70%	130%
Cobalt	3607396	3607396	14.8	14.6	1.4%	< 0.5	103%	70%	130%	111%	80%	120%	106%	70%	130%
Copper	3607396	3607396	37.9	34.3	10.1%	< 1.0	93%	70%	130%	111%	80%	120%	92%	70%	130%
Lead	3607396	3607396	9	9	2.2%	< 1	105%	70%	130%	105%	80%	120%	99%	70%	130%
Molybdenum	3607396	3607396	0.8	0.7	NA	< 0.5	106%	70%	130%	106%	80%	120%	103%	70%	130%
Nickel	3607396	3607396	29	28	3.4%	< 1	100%	70%	130%	108%	80%	120%	99%	70%	130%
Selenium	3607396	3607396	<0.8	<0.8	NA	< 0.8	121%	70%	130%	105%	80%	120%	108%	70%	130%
Silver	3607396	3607396	<0.5	<0.5	NA	< 0.5	100%	70%	130%	103%	80%	120%	98%	70%	130%
Thallium	3607396	3607396	<0.5	<0.5	NA	< 0.5	107%	70%	130%	106%	80%	120%	100%	70%	130%
Uranium	3607396	3607396	0.87	0.84	NA	< 0.50	108%	70%	130%	103%	80%	120%	102%	70%	130%
Vanadium	3607396	3607396	36.9	33.7	9.1%	< 0.4	106%	70%	130%	106%	80%	120%	108%	70%	130%
Zinc	3607396	3607396	67	61	8.8%	< 5	102%	70%	130%	112%	80%	120%	99%	70%	130%
Chromium, Hexavalent	3609562		<0.2	<0.2	NA	< 0.2	94%	70%	130%	97%	80%	120%	87%	70%	130%
Cyanide, Free	3548867		<0.040	<0.040	NA	< 0.040	99%	70%	130%	102%	80%	120%	104%	70%	130%
Mercury	3607396	3607396	<0.10	<0.10	NA	< 0.10	109%	70%	130%	103%	80%	120%	102%	70%	130%
Electrical Conductivity (2:1)	3607396	3607396	0.203	0.201	0.9%	< 0.005	99%	80%	120%						
Sodium Adsorption Ratio (2:1) (Calc.)	3607396	3607396	0.451	0.446	1.1%	NA									
pH, 2:1 CaCl2 Extraction	3611052		6.33	6.66	5.0%	NA	101%	80%	120%						

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

Particle Size by Sieve (Wet)

Sieve Analysis - 75 µm (retained)	3608902	31.20	30.40	2.6%	NA	103%	70%	130%	
Sieve Analysis - 75 µm (passing)	3608902	68.80	69.60	1.2%	NA				

Comments: NA Signifies Not Applicable

Certified By:

AGAT Laboratories

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Quality Assurance

CLIENT NAME: R.J. BURNSIDE & ASSOCIATES LTD.

AGAT WORK ORDER: 22T872007

PROJECT: 300044049

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Mississauga

SAMPLED BY:Caitlin Dermott, Sarah Beney

Trace Organics Analysis

RPT Date: Mar 18, 2022			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - PHCs F1 - F4 (with PAHs and VOC) (Soil)															
F1 (C6 - C10)	3611668		<5	<5	NA	< 5	NA	60%	140%	NA	60%	140%	93%	60%	140%
F2 (C10 to C16)	3607423	3607423	180	140	25.0%	< 10	102%	60%	140%	107%	60%	140%	86%	60%	140%
F3 (C16 to C34)	3607423	3607423	110	77	NA	< 50	104%	60%	140%	109%	60%	140%	66%	60%	140%
F4 (C34 to C50)	3607423	3607423	< 50	< 50	NA	< 50	96%	60%	140%	88%	60%	140%		60%	140%
O. Reg. 153(511) - BNA (full) + PAHs (Soil)															
Naphthalene	3607396	3607396	< 0.05	< 0.05	NA	< 0.05	114%	50%	140%	101%	50%	140%	96%	50%	140%
Acenaphthylene	3607396	3607396	< 0.05	< 0.05	NA	< 0.05	103%	50%	140%	92%	50%	140%	80%	50%	140%
Acenaphthene	3607396	3607396	< 0.05	< 0.05	NA	< 0.05	116%	50%	140%	95%	50%	140%	83%	50%	140%
Fluorene	3607396	3607396	< 0.05	< 0.05	NA	< 0.05	117%	50%	140%	97%	50%	140%	84%	50%	140%
Phenanthrene	3607396	3607396	< 0.05	< 0.05	NA	< 0.05	115%	50%	140%	105%	50%	140%	81%	50%	140%
Anthracene	3607396	3607396	< 0.05	< 0.05	NA	< 0.05	104%	50%	140%	100%	50%	140%	76%	50%	140%
Fluoranthene	3607396	3607396	< 0.05	< 0.05	NA	< 0.05	91%	50%	140%	76%	50%	140%	78%	50%	140%
Pyrene	3607396	3607396	< 0.05	< 0.05	NA	< 0.05	87%	50%	140%	74%	50%	140%	65%	50%	140%
Benz(a)anthracene	3607396	3607396	< 0.05	< 0.05	NA	< 0.05	75%	50%	140%	64%	50%	140%	79%	50%	140%
Chrysene	3607396	3607396	< 0.05	< 0.05	NA	< 0.05	78%	50%	140%	65%	50%	140%	72%	50%	140%
Benzo(b)fluoranthene	3607396	3607396	< 0.05	< 0.05	NA	< 0.05	105%	50%	140%	72%	50%	140%	64%	50%	140%
Benzo(k)fluoranthene	3607396	3607396	< 0.05	< 0.05	NA	< 0.05	103%	50%	140%	72%	50%	140%	78%	50%	140%
Benzo(a)pyrene	3607396	3607396	< 0.05	< 0.05	NA	< 0.05	101%	50%	140%	74%	50%	140%	68%	50%	140%
Indeno(1,2,3-cd)pyrene	3607396	3607396	< 0.05	< 0.05	NA	< 0.05	93%	50%	140%	63%	50%	140%	67%	50%	140%
Dibenzo(a,h)anthracene	3607396	3607396	< 0.05	< 0.05	NA	< 0.05	101%	50%	140%	72%	50%	140%	69%	50%	140%
Benzo(g,h,i)perylene	3607396	3607396	< 0.05	< 0.05	NA	< 0.05	88%	50%	140%	73%	50%	140%	61%	50%	140%
Phenol	3607396	3607396	< 0.5	< 0.5	NA	< 0.5	91%	30%	130%	64%	30%	130%	112%	30%	130%
Bis(2-chloroethyl)ether	3607396	3607396	< 0.1	< 0.1	NA	< 0.1	94%	50%	140%	75%	50%	140%	91%	50%	140%
2-Chlorophenol	3607396	3607396	< 0.1	< 0.1	NA	< 0.1	115%	50%	140%	82%	50%	140%	68%	50%	140%
o-Cresol	3607396	3607396	< 0.1	< 0.1	NA	< 0.1	105%	50%	140%	79%	50%	140%	68%	50%	140%
Bis(2-chloroisopropyl)ether	3607396	3607396	< 0.1	< 0.1	NA	< 0.1	89%	50%	140%	97%	50%	140%	83%	50%	140%
m & p - Cresol	3607396	3607396	< 0.1	< 0.1	NA	< 0.1	109%	50%	140%	84%	50%	140%	71%	50%	140%
2,4-Dimethylphenol	3607396	3607396	< 0.2	< 0.2	NA	< 0.2	107%	30%	130%	78%	30%	130%	76%	30%	130%
2,4-Dichlorophenol	3607396	3607396	< 0.1	< 0.1	NA	< 0.1	100%	50%	140%	70%	50%	140%	72%	50%	140%
1,2,4-Trichlorobenzene	3607396	3607396	< 0.05	< 0.05	NA	< 0.05	109%	50%	140%	106%	50%	140%	94%	50%	140%
p-Chloroaniline	3607396	3607396	< 0.5	< 0.5	NA	< 0.5	64%	30%	130%	65%	30%	130%	64%	30%	130%
2,4,6-Trichlorophenol	3607396	3607396	< 0.1	< 0.1	NA	< 0.1	78%	50%	140%	96%	50%	140%	77%	50%	140%
2,4,5-Trichlorophenol	3607396	3607396	< 0.1	< 0.1	NA	< 0.1	85%	50%	140%	75%	50%	140%	83%	50%	140%
1,1-Biphenyl	3607396	3607396	< 0.05	< 0.05	NA	< 0.05	NA	50%	140%	106%	50%	140%	94%	50%	140%
Dimethyl Phthalate	3607396	3607396	< 0.1	< 0.1	NA	< 0.1	110%	50%	140%	93%	50%	140%	78%	50%	140%
Diethyl Phthalate	3607396	3607396	< 0.1	< 0.1	NA	< 0.1	100%	50%	140%	85%	50%	140%	83%	50%	140%
Pentachlorophenol	3607396	3607396	< 0.1	< 0.1	NA	< 0.1	50%	50%	140%	104%	50%	140%	80%	50%	140%
3,3'-Dichlorobenzidine	3607396	3607396	< 0.5	< 0.5	NA	< 0.5	51%	30%	130%	100%	30%	130%	100%	30%	130%
2,4-Dinitrophenol	3607396	3607396	< 2.0	< 2.0	NA	< 2.0	53%	30%	130%	81%	30%	130%	53%	30%	130%

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Quality Assurance

CLIENT NAME: R.J. BURNSIDE & ASSOCIATES LTD.
AGAT WORK ORDER: 22T872007
PROJECT: 300044049
ATTENTION TO: Caitlin Dermott
SAMPLING SITE:Mississauga
SAMPLED BY:Caitlin Dermott, Sarah Beney

Trace Organics Analysis (Continued)

RPT Date: Mar 18, 2022			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
Bis(2-Ethylhexyl)phthalate	3607396	3607396	< 0.2	< 0.2	NA	< 0.2	92%	50%	140%	74%	50%	140%	61%	50%	140%
O. Reg. 153(511) - OC Pesticides + PCBs (Soil)															
Gamma-Hexachlorocyclohexane	3609737		< 0.005	< 0.005	NA	< 0.005	80%	50%	140%	86%	50%	140%	83%	50%	140%
Heptachlor	3609737		< 0.005	< 0.005	NA	< 0.005	86%	50%	140%	96%	50%	140%	91%	50%	140%
Aldrin	3609737		< 0.005	< 0.005	NA	< 0.005	95%	50%	140%	90%	50%	140%	83%	50%	140%
Heptachlor Epoxide	3609737		< 0.005	< 0.005	NA	< 0.005	89%	50%	140%	79%	50%	140%	80%	50%	140%
Endosulfan I	3609737		< 0.005	< 0.005	NA	< 0.005	90%	50%	140%	84%	50%	140%	83%	50%	140%
Endosulfan II	3609737		< 0.005	< 0.005	NA	< 0.005	93%	50%	140%	80%	50%	140%	81%	50%	140%
Alpha-Chlordane	3609737		< 0.005	< 0.005	NA	< 0.005	89%	50%	140%	88%	50%	140%	83%	50%	140%
gamma-Chlordane	3609737		< 0.005	< 0.005	NA	< 0.005	91%	50%	140%	88%	50%	140%	83%	50%	140%
op'-DDD	3609737		< 0.005	< 0.005	NA	< 0.005	91%	50%	140%	94%	50%	140%	90%	50%	140%
pp'-DDD	3609737		< 0.005	< 0.005	NA	< 0.005	83%	50%	140%	95%	50%	140%	88%	50%	140%
op'-DDE	3609737		< 0.005	< 0.005	NA	< 0.005	90%	50%	140%	101%	50%	140%	100%	50%	140%
pp'-DDE	3609737		< 0.005	< 0.005	NA	< 0.005	84%	50%	140%	100%	50%	140%	90%	50%	140%
op'-DDT	3609737		< 0.005	< 0.005	NA	< 0.005	88%	50%	140%	101%	50%	140%	97%	50%	140%
pp'-DDT	3609737		< 0.005	< 0.005	NA	< 0.005	80%	50%	140%	92%	50%	140%	97%	50%	140%
Dieldrin	3609737		< 0.005	< 0.005	NA	< 0.005	90%	50%	140%	85%	50%	140%	84%	50%	140%
Endrin	3609737		< 0.005	< 0.005	NA	< 0.005	84%	50%	140%	76%	50%	140%	89%	50%	140%
Methoxychlor	3609737		< 0.005	< 0.005	NA	< 0.005	80%	50%	140%	89%	50%	140%	98%	50%	140%
Hexachlorobenzene	3609737		< 0.005	< 0.005	NA	< 0.005	98%	50%	140%	98%	50%	140%	90%	50%	140%
Hexachlorobutadiene	3609737		< 0.01	< 0.01	NA	< 0.01	82%	50%	140%	80%	50%	140%	87%	50%	140%
Hexachloroethane	3609737		< 0.01	< 0.01	NA	< 0.01	89%	50%	140%	95%	50%	140%	88%	50%	140%
Aroclor 1242	3609737		< 0.10	< 0.10	NA	< 0.10	98%	50%	140%	NA	50%	140%	NA	50%	140%
Aroclor 1248	3609737		< 0.10	< 0.10	NA	< 0.10	92%	50%	140%	NA	50%	140%	NA	50%	140%
Aroclor 1254	3609737		< 0.10	< 0.10	NA	< 0.10	100%	50%	140%	NA	50%	140%	NA	50%	140%
Aroclor 1260	3609737		< 0.10	< 0.10	NA	< 0.10	99%	50%	140%	NA	50%	140%	NA	50%	140%
Polychlorinated Biphenyls	3609737		< 0.10	< 0.10	NA	< 0.10	100%	50%	140%	101%	50%	140%	110%	50%	140%
O. Reg. 153(511) - VOCs (Soil)															
Dichlorodifluoromethane	3611668		<0.05	<0.05	NA	< 0.05	72%	50%	140%	73%	50%	140%	100%	50%	140%
Vinyl Chloride	3611668		<0.02	<0.02	NA	< 0.02	111%	50%	140%	91%	50%	140%	111%	50%	140%
Bromomethane	3611668		<0.05	<0.05	NA	< 0.05	106%	50%	140%	100%	50%	140%	86%	50%	140%
Trichlorofluoromethane	3611668		<0.05	<0.05	NA	< 0.05	105%	50%	140%	102%	50%	140%	104%	50%	140%
Acetone	3611668		<0.50	<0.50	NA	< 0.50	100%	50%	140%	97%	50%	140%	95%	50%	140%
1,1-Dichloroethylene	3611668		<0.05	<0.05	NA	< 0.05	84%	50%	140%	102%	60%	130%	102%	50%	140%
Methylene Chloride	3611668		<0.05	<0.05	NA	< 0.05	119%	50%	140%	94%	60%	130%	98%	50%	140%
Trans- 1,2-Dichloroethylene	3611668		<0.05	<0.05	NA	< 0.05	92%	50%	140%	88%	60%	130%	102%	50%	140%
Methyl tert-butyl Ether	3611668		<0.05	<0.05	NA	< 0.05	87%	50%	140%	94%	60%	130%	111%	50%	140%
1,1-Dichloroethane	3611668		<0.02	<0.02	NA	< 0.02	86%	50%	140%	115%	60%	130%	90%	50%	140%
Methyl Ethyl Ketone	3611668		<0.50	<0.50	NA	< 0.50	106%	50%	140%	102%	50%	140%	99%	50%	140%

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Quality Assurance

CLIENT NAME: R.J. BURNSIDE & ASSOCIATES LTD.

AGAT WORK ORDER: 22T872007

PROJECT: 300044049

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Mississauga

SAMPLED BY:Caitlin Dermott, Sarah Beney

Trace Organics Analysis (Continued)

RPT Date: Mar 18, 2022			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
Cis- 1,2-Dichloroethylene	3611668		<0.02	<0.02	NA	< 0.02	77%	50%	140%	81%	60%	130%	94%	50%	140%
Chloroform	3611668		<0.04	<0.04	NA	< 0.04	108%	50%	140%	105%	60%	130%	93%	50%	140%
1,2-Dichloroethane	3611668		<0.03	<0.03	NA	< 0.03	103%	50%	140%	102%	60%	130%	82%	50%	140%
1,1,1-Trichloroethane	3611668		<0.05	<0.05	NA	< 0.05	97%	50%	140%	92%	60%	130%	107%	50%	140%
Carbon Tetrachloride	3611668		<0.05	<0.05	NA	< 0.05	116%	50%	140%	103%	60%	130%	78%	50%	140%
Benzene	3611668		<0.02	<0.02	NA	< 0.02	86%	50%	140%	90%	60%	130%	97%	50%	140%
1,2-Dichloropropane	3611668		<0.03	<0.03	NA	< 0.03	106%	50%	140%	96%	60%	130%	78%	50%	140%
Trichloroethylene	3611668		<0.03	<0.03	NA	< 0.03	98%	50%	140%	103%	60%	130%	94%	50%	140%
Bromodichloromethane	3611668		<0.05	<0.05	NA	< 0.05	82%	50%	140%	87%	60%	130%	77%	50%	140%
Methyl Isobutyl Ketone	3611668		<0.50	<0.50	NA	< 0.50	104%	50%	140%	101%	50%	140%	100%	50%	140%
1,1,2-Trichloroethane	3611668		<0.04	<0.04	NA	< 0.04	107%	50%	140%	113%	60%	130%	100%	50%	140%
Toluene	3611668		<0.05	<0.05	NA	< 0.05	111%	50%	140%	91%	60%	130%	91%	50%	140%
Dibromochloromethane	3611668		<0.05	<0.05	NA	< 0.05	114%	50%	140%	102%	60%	130%	105%	50%	140%
Ethylene Dibromide	3611668		<0.04	<0.04	NA	< 0.04	112%	50%	140%	108%	60%	130%	84%	50%	140%
Tetrachloroethylene	3611668		<0.05	<0.05	NA	< 0.05	78%	50%	140%	97%	60%	130%	87%	50%	140%
1,1,1,2-Tetrachloroethane	3611668		<0.04	<0.04	NA	< 0.04	99%	50%	140%	104%	60%	130%	110%	50%	140%
Chlorobenzene	3611668		<0.05	<0.05	NA	< 0.05	87%	50%	140%	106%	60%	130%	120%	50%	140%
Ethylbenzene	3611668		<0.05	<0.05	NA	< 0.05	88%	50%	140%	100%	60%	130%	112%	50%	140%
m & p-Xylene	3611668		<0.05	<0.05	NA	< 0.05	109%	50%	140%	106%	60%	130%	115%	50%	140%
Bromoform	3611668		<0.05	<0.05	NA	< 0.05	101%	50%	140%	98%	60%	130%	119%	50%	140%
Styrene	3611668		<0.05	<0.05	NA	< 0.05	81%	50%	140%	102%	60%	130%	83%	50%	140%
1,1,2,2-Tetrachloroethane	3611668		<0.05	<0.05	NA	< 0.05	89%	50%	140%	96%	60%	130%	83%	50%	140%
o-Xylene	3611668		<0.05	<0.05	NA	< 0.05	99%	50%	140%	100%	60%	130%	102%	50%	140%
1,3-Dichlorobenzene	3611668		<0.05	<0.05	NA	< 0.05	98%	50%	140%	108%	60%	130%	81%	50%	140%
1,4-Dichlorobenzene	3611668		<0.05	<0.05	NA	< 0.05	93%	50%	140%	95%	60%	130%	73%	50%	140%
1,2-Dichlorobenzene	3611668		<0.05	<0.05	NA	< 0.05	99%	50%	140%	106%	60%	130%	89%	50%	140%
n-Hexane	3611668		<0.05	<0.05	NA	< 0.05	94%	50%	140%	100%	60%	130%	102%	50%	140%

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

Certified By:

AGAT Laboratories

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Method Summary

CLIENT NAME: R.J. BURNSIDE & ASSOCIATES LTD.

AGAT WORK ORDER: 22T872007

PROJECT: 300044049

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Mississauga

SAMPLED BY:Caitlin Dermott, Sarah Beney

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Soil Analysis			
Antimony	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Arsenic	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Barium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Beryllium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Boron	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Boron (Hot Water Soluble)	MET-93-6104	modified from EPA 6010D and MSA PART 3, CH 21	ICP/OES
Cadmium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Chromium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Cobalt	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Copper	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Lead	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Molybdenum	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Nickel	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Selenium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Silver	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Thallium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Uranium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Vanadium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Zinc	MET 93 -6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Chromium, Hexavalent	INOR-93-6068	modified from EPA 3060 and EPA 7196	SPECTROPHOTOMETER
Cyanide, Free	INOR-93-6052	modified from ON MOECC E3015, SM 4500-CN- I, G-387	TECHNICON AUTO ANALYZER
Mercury	MET-93-6103	modified from EPA 7471B and SM 3112 B	ICP-MS
Electrical Conductivity (2:1)	INOR-93-6075	modified from MSA PART 3, CH 14 and SM 2510 B	PC TITRATE
Sodium Adsorption Ratio (2:1) (Calc.)	INOR-93-6007	modified from EPA 6010D & Analytical Protocol	ICP/OES
pH, 2:1 CaCl2 Extraction	INOR-93-6075	modified from EPA 9045D, MCKEAGUE 3.11 E3137	PC TITRATE
Sieve Analysis - 75 µm (retained)	INOR-93-6065	ASTM D1140	SIEVE
Sieve Analysis - 75 µm (passing)	INOR-93-6065	ASTM D1140	SIEVE

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PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Naphthalene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Acenaphthylene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Acenaphthene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Fluorene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Phenanthrene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Anthracene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Fluoranthene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Pyrene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Benz(a)anthracene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Chrysene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Benzo(b)fluoranthene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Benzo(k)fluoranthene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Benzo(a)pyrene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Indeno(1,2,3-cd)pyrene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Dibenzo(a,h)anthracene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Benzo(g,h,i)perylene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Phenol	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Bis(2-chloroethyl)ether	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
2-Chlorophenol	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
o-Cresol	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Bis(2-chloroisopropyl)ether	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
m & p - Cresol	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
2,4-Dimethylphenol	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
2,4-Dichlorophenol	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
1,2,4-Trichlorobenzene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
p-Chloroaniline	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
1 and 2 Methlynaphthalene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	CALCULATION

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Method Summary

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AGAT WORK ORDER: 22T872007

PROJECT: 300044049

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Mississauga

SAMPLED BY:Caitlin Dermott, Sarah Beney

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
2,4,6-Trichlorophenol	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
2,4,5-Trichlorophenol	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
1,1-Biphenyl	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Dimethyl Phthalate	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
2,4 and 2,6-Dinitrotoluene	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	CALCULATION
Diethyl Phthalate	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Pentachlorophenol	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
3,3'-Dichlorobenzidine	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
2,4-Dinitrophenol	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Bis(2-Ethylhexyl)phthalate	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
phenol-d6 surrogate	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
2-Fluorophenol	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
2,4,6-Tribromophenol	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Chrysene-d12	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Moisture Content	VOL-91-5009	CCME Tier 1 Method	BALANCE
wet weight BNA	ORG-91-5114		BALANCE
Gamma-Hexachlorocyclohexane	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
Heptachlor	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
Aldrin	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
Heptachlor Epoxide	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
Endosulfan I	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
Endosulfan II	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
Endosulfan	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
Alpha-Chlordane	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
gamma-Chlordane	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
Chlordane	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	CALCULATION
op'-DDD	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
pp'-DDD	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
DDD	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	CALCULATION

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ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Mississauga

SAMPLED BY:Caitlin Dermott, Sarah Beney

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
op'-DDE	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
pp'-DDE	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
DDE	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
op'-DDT	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
pp'-DDT	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
DDT	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	CALCULATION
Dieldrin	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
Endrin	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
Methoxychlor	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
Hexachlorobenzene	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
Hexachlorobutadiene	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
Hexachloroethane	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8081B	GC/ECD
Aroclor 1242	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8082A	GC/ECD
Aroclor 1248	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8082A	GC/ECD
Aroclor 1254	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8082A	GC/ECD
Aroclor 1260	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8082A	GC/ECD
Polychlorinated Biphenyls	ORG-91-5113	modified from EPA SW-846 3570, 3620C & 8082A	GC/ECD
TCMX	ORG-91-5113	modified from EPA SW-846 3541, 3620,8081	GC/ECD
Decachlorobiphenyl	ORG-91-5113	modified from EPA SW-846 3541, 3620,8081	GC/ECD
wet weight OC/PCB	ORG-91-5113		BALANCE
Naphthalene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Acenaphthylene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Acenaphthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Fluorene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Phenanthrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Anthracene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Fluoranthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Pyrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS

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Method Summary

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AGAT WORK ORDER: 22T872007

PROJECT: 300044049

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Mississauga

SAMPLED BY:Caitlin Dermott, Sarah Beney

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Benz(a)anthracene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Chrysene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(b)fluoranthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(k)fluoranthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(a)pyrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Indeno(1,2,3-cd)pyrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Dibenz(a,h)anthracene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(g,h,i)perylene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
1 and 2 Methlynaphthalene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Naphthalene-d8	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Acridine-d9	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Terphenyl-d14	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
F1 (C6 - C10)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/FID
F1 (C6 to C10) minus BTEX	VOL-91-5009	modified from CCME Tier 1 Method	P&T GC/FID
Toluene-d8	VOL-91-5009	modified from EPA SW-846 5030C & 8260D	(P&T)GC/MS
F2 (C10 to C16)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F2 (C10 to C16) minus Naphthalene	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34) minus PAHs	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F4 (C34 to C50)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
Gravimetric Heavy Hydrocarbons	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Terphenyl	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
Dichlorodifluoromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Vinyl Chloride	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Bromomethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Trichlorofluoromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Acetone	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1-Dichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methylene Chloride	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Trans- 1,2-Dichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methyl tert-butyl Ether	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1-Dichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS

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SAMPLING SITE:Mississauga

SAMPLED BY:Caitlin Dermott, Sarah Beney

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Methyl Ethyl Ketone	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Cis- 1,2-Dichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Chloroform	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,2-Dichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1,1-Trichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Carbon Tetrachloride	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Benzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,2-Dichloropropane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Trichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Bromodichloromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methyl Isobutyl Ketone	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1,2-Trichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Toluene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Dibromochloromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Ethylene Dibromide	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Tetrachloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1,1,2-Tetrachloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Chlorobenzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Ethylbenzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
m & p-Xylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Bromoform	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Styrene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1,2,2-Tetrachloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
o-Xylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,3-Dichlorobenzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,4-Dichlorobenzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,2-Dichlorobenzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Xylenes (Total)	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS

AGAT Laboratories

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MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
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Method Summary

CLIENT NAME: R.J. BURNSIDE & ASSOCIATES LTD.

AGAT WORK ORDER: 22T872007

PROJECT: 300044049

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Mississauga

SAMPLED BY:Caitlin Dermott, Sarah Beney

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
1,3-Dichloropropene (Cis + Trans)	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
n-Hexane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Toluene-d8	VOL-91-5002	modified from EPA 5035A & EPA 8260D	(P&T)GC/MS
4-Bromofluorobenzene	VOL-91-5002	modified from EPA 5035A & EPA 8260D	(P&T)GC/MS
Moisture Content	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE

BURNSIDE

[THE DIFFERENCE IS OUR PEOPLE]

Appendix G

Certificates of Analysis - Groundwater

AGAT Laboratories

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CLIENT NAME: R.J. BURNSIDE & ASSOCIATES LTD.
15 Townline
Orangeville, ON L9W3R4
(519) 941-5331
ATTENTION TO: Caitlin Dermott
PROJECT: 300044049
AGAT WORK ORDER: 22T878643
TRACE ORGANICS REVIEWED BY: Oksana Gushyla, Trace Organics Lab Supervisor
WATER ANALYSIS REVIEWED BY: Nivine Basily, Inorganics Report Writer
DATE REPORTED: Apr 07, 2022
PAGES (INCLUDING COVER): 15
VERSION*: 2

Should you require any information regarding this analysis please contact your client services representative at (905) 712-5100

Notes

VERSION 2:V2 issued 2022-05-02. Sample ID revised from MW4-21 to MW8-22. Supersedes previous version.

AGAT Laboratories

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CANADA L4Z 1Y2
TEL (905)712-5100
FAX (905)712-5122
http://www.agatlabs.com

Certificate of Analysis

AGAT WORK ORDER: 22T878643

PROJECT: 300044049

CLIENT NAME: R.J. BURNSIDE & ASSOCIATES LTD.

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Ninth Line, Mississauga

SAMPLED BY:Caitlin Dermott

O. Reg. 153(511) - OC Pesticides + PCBs (Water)

DATE RECEIVED: 2022-03-29

DATE REPORTED: 2022-04-07

		SAMPLE DESCRIPTION:		MW8-22	BH5-21	MW1-21	BH6-21	BH6-21 DUP
		SAMPLE TYPE:		Water	Water	Water	Water	Water
		DATE SAMPLED:		2022-03-29 13:30	2022-03-29 14:00	2022-03-29 14:45	2022-03-29 15:30	2022-03-29 15:30
Parameter	Unit	G / S	RDL	3701987	3701988	3701989	3701990	3701991
Gamma-Hexachlorocyclohexane	ug/L	1.2	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Heptachlor	ug/L	1.5	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Aldrin	ug/L	0.35	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Heptachlor Epoxide	ug/L	0.048	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Endosulfan I	µg/L		0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan II	µg/L		0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan	ug/L	1.5	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
alpha - chlordane	µg/L		0.1	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	µg/L		0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlordane	ug/L	7	0.04	<0.04	<0.04	<0.04	<0.04	<0.04
op'-DDE	µg/L		0.01	<0.01	<0.01	<0.01	<0.01	<0.01
pp'-DDE	µg/L		0.01	<0.01	<0.01	<0.01	<0.01	<0.01
DDE	ug/L		0.01	<0.01	<0.01	<0.01	<0.01	<0.01
op'-DDD	µg/L		0.05	<0.05	<0.05	<0.05	<0.05	<0.05
pp'-DDD	µg/L		0.05	<0.05	<0.05	<0.05	<0.05	<0.05
DDD	ug/L	10	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
op'-DDT	µg/L		0.04	<0.04	<0.04	<0.04	<0.04	<0.04
pp'-DDT	µg/L		0.05	<0.05	<0.05	<0.05	<0.05	<0.05
DDT	ug/L	0.0028	**0.04**	<0.04	<0.04	<0.04	<0.04	<0.04
Dieldrin	ug/L	0.35	0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Endrin	ug/L	0.48	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Methoxychlor	ug/L	6.5	0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Hexachlorobenzene	ug/L	1	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Hexachlorobutadiene	ug/L	0.6	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Hexachloroethane	ug/L	2.1	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Aroclor 1242	ug/L		0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1248	ug/L		0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1254	ug/L		0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1260	ug/L		0.1	<0.1	<0.1	<0.1	<0.1	<0.1

Certified By:

AGAT Laboratories

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http://www.agatlabs.com

Certificate of Analysis

AGAT WORK ORDER: 22T878643

PROJECT: 300044049

CLIENT NAME: R.J. BURNSIDE & ASSOCIATES LTD.

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Ninth Line, Mississauga

SAMPLED BY:Caitlin Dermott

O. Reg. 153(511) - OC Pesticides + PCBs (Water)

DATE RECEIVED: 2022-03-29

DATE REPORTED: 2022-04-07

				SAMPLE DESCRIPTION:	MW8-22	BH5-21	MW1-21	BH6-21	BH6-21 DUP
				SAMPLE TYPE:	Water	Water	Water	Water	Water
				DATE SAMPLED:	2022-03-29 13:30	2022-03-29 14:00	2022-03-29 14:45	2022-03-29 15:30	2022-03-29 15:30
Parameter	**Unit**	**G / S**	**RDL**		**3701987**	**3701988**	**3701989**	**3701990**	**3701991**
Polychlorinated Biphenyls	ug/L	3	0.1		<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate	**Unit**	**Acceptable Limits**							
TCMX	%	50-140			80	109	80	113	82
Decachlorobiphenyl	%	50-140			81	117	96	114	86

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition - Potable Ground Water - All Types of Property Uses - Medium and Fine Textured Soils
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.

3701987-3701991 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.
PCB total is a calculated parameter. The calculated value is the sum of Aroclor 1242, Aroclor 1248, Aroclor 1254 and Aroclor 1260.
The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:

AGAT Laboratories

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Certificate of Analysis

AGAT WORK ORDER: 22T878643

PROJECT: 300044049

CLIENT NAME: R.J. BURNSIDE & ASSOCIATES LTD.

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Ninth Line, Mississauga

SAMPLED BY:Caitlin Dermott

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

DATE RECEIVED: 2022-03-29

DATE REPORTED: 2022-04-07

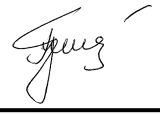
				SAMPLE DESCRIPTION:	MW8-22	BH5-21	MW1-21	BH6-21	BH6-21 DUP
				SAMPLE TYPE:	Water	Water	Water	Water	Water
				DATE SAMPLED:	2022-03-29 13:30	2022-03-29 14:00	2022-03-29 14:45	2022-03-29 15:30	2022-03-29 15:30
Parameter	**Unit**	**G / S**	**RDL**		**3701987**	**3701988**	**3701989**	**3701990**	**3701991**
F1 (C6 - C10)	µg/L	750	25		<25	<25	<25	<25	<25
F1 (C6 to C10) minus BTEX	µg/L	750	25		<25	<25	<25	<25	<25
F2 (C10 to C16)	µg/L	150	100		<100	<100	<100	<100	<100
F3 (C16 to C34)	µg/L	500	100		<100	<100	<100	<100	<100
F4 (C34 to C50)	µg/L	500	100		<100	<100	<100	<100	<100
Gravimetric Heavy Hydrocarbons	µg/L		500		NA	NA	NA	NA	NA
Sediment					NO	NO	NO	NO	NO
Surrogate	**Unit**	**Acceptable Limits**							
Toluene-d8	% Recovery	50-140			100	96.2	97.8	93.8	76.0
Terphenyl	%	60-140			96	95	106	102	81

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition - Potable Ground Water - All Types of Property Uses - Medium and Fine Textured Soils
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.

3701987-3701991 The C6-C10 fraction is calculated using Toluene response factor.
C6–C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX. The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and 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.
Sediment parameter is comment only based on visual inspection of the sample prior to extraction and is not an accredited test.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:



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Certificate of Analysis

AGAT WORK ORDER: 22T878643

PROJECT: 300044049

CLIENT NAME: R.J. BURNSIDE & ASSOCIATES LTD.

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Ninth Line, Mississauga

SAMPLED BY:Caitlin Dermott

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

DATE RECEIVED: 2022-03-29

DATE REPORTED: 2022-04-07

SAMPLE DESCRIPTION:				MW8-22	BH5-21	MW1-21	BH6-21	BH6-21 DUP	Trip Blank
SAMPLE TYPE:				Water	Water	Water	Water	Water	Water
DATE SAMPLED:				2022-03-29 13:30	2022-03-29 14:00	2022-03-29 14:45	2022-03-29 15:30	2022-03-29 15:30	2022-03-29
Parameter	Unit	G / S	RDL	3701987	3701988	3701989	3701990	3701991	3701993
Dichlorodifluoromethane	µg/L	590	0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Vinyl Chloride	µg/L	1.7	0.17	<0.17	<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	<0.20	<0.20
Trichlorofluoromethane	µg/L	150	0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Acetone	µg/L	2700	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethylene	µg/L	14	0.30	<0.30	<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	<0.30	<0.30
trans- 1,2-Dichloroethylene	µg/L	17	0.20	<0.20	<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	<0.20	<0.20
1,1-Dichloroethane	µg/L	5	0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Methyl Ethyl Ketone	µg/L	1800	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis- 1,2-Dichloroethylene	µg/L	17	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chloroform	µg/L	22	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dichloroethane	µg/L	5	0.20	<0.20	<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	<0.30	<0.30
Carbon Tetrachloride	µg/L	5.0	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Benzene	µg/L	5.0	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dichloropropane	µg/L	5	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethylene	µg/L	5	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Bromodichloromethane	µg/L	16	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Methyl Isobutyl Ketone	µg/L	640	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	µg/L	5	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Toluene	µg/L	24	0.20	0.29	<0.20	<0.20	<0.20	<0.20	<0.20
Dibromochloromethane	µg/L	25	0.10	<0.10	<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	<0.10	<0.10
Tetrachloroethylene	µg/L	17	0.20	<0.20	<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	<0.10	<0.10
Chlorobenzene	µg/L	30	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Ethylbenzene	µg/L	2.4	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10

Certified By:

AGAT Laboratories

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Certificate of Analysis

AGAT WORK ORDER: 22T878643

PROJECT: 300044049

CLIENT NAME: R.J. BURNSIDE & ASSOCIATES LTD.

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Ninth Line, Mississauga

SAMPLED BY:Caitlin Dermott

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

DATE RECEIVED: 2022-03-29

DATE REPORTED: 2022-04-07

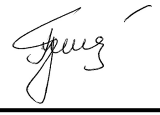
		SAMPLE DESCRIPTION:		MW8-22	BH5-21	MW1-21	BH6-21	BH6-21 DUP	Trip Blank
		SAMPLE TYPE:		Water	Water	Water	Water	Water	Water
		DATE SAMPLED:		2022-03-29 13:30	2022-03-29 14:00	2022-03-29 14:45	2022-03-29 15:30	2022-03-29 15:30	2022-03-29
Parameter	**Unit**	**G / S**	**RDL**	**3701987**	**3701988**	**3701989**	**3701990**	**3701991**	**3701993**
m & p-Xylene	µg/L		0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Bromoform	µg/L	25	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Styrene	µg/L	5.4	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
1,1,2,2-Tetrachloroethane	µg/L	1	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
1,3-Dichlorobenzene	µg/L	59	0.10	<0.10	<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	<0.10	<0.10
1,2-Dichlorobenzene	µg/L	3	0.10	<0.10	<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	<0.30	<0.30
Xylenes (Total)	µg/L	300	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
n-Hexane	µg/L	520	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Surrogate	**Unit**	**Acceptable Limits**							
Toluene-d8	% Recovery	50-140		96	96	94	90	86	89
4-Bromofluorobenzene	% Recovery	50-140		84	84	79	90	84	83

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition - Potable Ground Water - All Types of Property Uses - Medium and Fine Textured Soils
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.

3701987-3701993 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.
The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:



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Certificate of Analysis

AGAT WORK ORDER: 22T878643

PROJECT: 300044049

CLIENT NAME: R.J. BURNSIDE & ASSOCIATES LTD.

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Ninth Line, Mississauga

SAMPLED BY:Caitlin Dermott

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

DATE RECEIVED: 2022-03-29

DATE REPORTED: 2022-04-07

		SAMPLE DESCRIPTION:		MW8-22		BH5-21	MW1-21		BH6-21	BH6-21 DUP
		SAMPLE TYPE:		Water		Water	Water		Water	Water
		DATE SAMPLED:		2022-03-29 13:30		2022-03-29 14:00	2022-03-29 14:45		2022-03-29 15:30	2022-03-29 15:30
Parameter	Unit	G / S	RDL	3701987	RDL	3701988	3701989	RDL	3701990	3701991
Dissolved Antimony	µg/L	6	1.0	<1.0	1.0	<1.0	<1.0	1.0	<1.0	<1.0
Dissolved Arsenic	µg/L	25	1.0	2.3	1.0	<1.0	<1.0	1.0	<1.0	<1.0
Dissolved Barium	µg/L	1000	2.0	214	2.0	286	217	2.0	112	103
Dissolved Beryllium	µg/L	4	0.50	<0.50	0.50	<0.50	<0.50	0.50	<0.50	<0.50
Dissolved Boron	µg/L	5000	10.0	73.0	10.0	90.5	56.4	10.0	105	95.7
Dissolved Cadmium	µg/L	2.7	0.20	<0.20	0.20	<0.20	<0.20	0.20	<0.20	<0.20
Dissolved Chromium	µg/L	50	2.0	<2.0	2.0	<2.0	<2.0	2.0	<2.0	<2.0
Dissolved Cobalt	µg/L	3.8	0.50	<0.50	0.50	<0.50	<0.50	0.50	<0.50	<0.50
Dissolved Copper	µg/L	87	1.0	<1.0	1.0	<1.0	<1.0	1.0	1.2	<1.0
Dissolved Lead	µg/L	10	0.50	<0.50	0.50	<0.50	<0.50	0.50	<0.50	<0.50
Dissolved Molybdenum	µg/L	70	0.50	11.4	0.50	1.54	7.05	0.50	<0.50	<0.50
Dissolved Nickel	µg/L	100	1.0	11.8	1.0	<1.0	1.1	1.0	4.5	3.2
Dissolved Selenium	µg/L	10	1.0	1.1	1.0	<1.0	1.1	1.0	<1.0	2.1
Dissolved Silver	µg/L	1.5	0.20	<0.20	0.20	<0.20	<0.20	0.20	<0.20	<0.20
Dissolved Thallium	µg/L	2	0.30	<0.30	0.30	<0.30	<0.30	0.30	<0.30	<0.30
Dissolved Uranium	µg/L	20	0.50	0.99	0.50	<0.50	1.04	0.50	3.60	3.42
Dissolved Vanadium	µg/L	6.2	0.40	0.71	0.40	0.58	<0.40	0.40	0.70	0.43
Dissolved Zinc	µg/L	1100	5.0	<5.0	5.0	<5.0	13.5	5.0	<5.0	<5.0
Mercury	µg/L	1	0.02	<0.02	0.02	<0.02	<0.02	0.02	<0.02	<0.02
Chromium VI	µg/L	25	2	<2	2	<2	<2	2	<2	<2
Cyanide, Free	µg/L	66	2	<2	2	<2	<2	2	<2	<2
Dissolved Sodium	µg/L	490000	250	27300	50	20800	40200	250	33500	33000
Chloride	µg/L	790000	100	14200	100	5720	18100	100	79700	83600
Electrical Conductivity	uS/cm	NA	2	898	2	692	787	2	1590	1600
pH	pH Units		NA	7.81	NA	7.97	7.91	NA	7.35	7.35

Certified By:

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Certificate of Analysis

AGAT WORK ORDER: 22T878643

PROJECT: 300044049

CLIENT NAME: R.J. BURNSIDE & ASSOCIATES LTD.

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Ninth Line, Mississauga

SAMPLED BY:Caitlin Dermott

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

DATE RECEIVED: 2022-03-29 **DATE REPORTED: 2022-04-07**

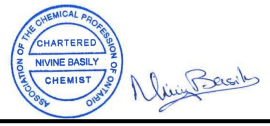
Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition - Potable Ground Water - All Types of Property Uses - Medium and Fine Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

3701987-3701991 Metals analysis completed on a filtered sample.

Dilution required, RDL has been increased accordingly.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:



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Quality Assurance

CLIENT NAME: R.J. BURNSIDE & ASSOCIATES LTD.

AGAT WORK ORDER: 22T878643

PROJECT: 300044049

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Ninth Line, Mississauga

SAMPLED BY:Caitlin Dermott

Trace Organics Analysis

RPT Date: Apr 07, 2022			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - VOCs (Water)															
Dichlorodifluoromethane	3702359		<0.40	<0.40	NA	< 0.40	101%	50%	140%	107%	50%	140%	101%	50%	140%
Vinyl Chloride	3702359		<0.17	<0.17	NA	< 0.17	107%	50%	140%	88%	50%	140%	113%	50%	140%
Bromomethane	3702359		<0.20	<0.20	NA	< 0.20	108%	50%	140%	109%	50%	140%	83%	50%	140%
Trichlorofluoromethane	3702359		<0.40	<0.40	NA	< 0.40	106%	50%	140%	107%	50%	140%	84%	50%	140%
Acetone	3702359		<1.0	<1.0	NA	< 1.0	102%	50%	140%	104%	50%	140%	103%	50%	140%
1,1-Dichloroethylene	3702359		<0.30	<0.30	NA	< 0.30	113%	50%	140%	96%	60%	130%	108%	50%	140%
Methylene Chloride	3702359		<0.30	<0.30	NA	< 0.30	99%	50%	140%	108%	60%	130%	100%	50%	140%
trans- 1,2-Dichloroethylene	3702359		<0.20	<0.20	NA	< 0.20	83%	50%	140%	99%	60%	130%	92%	50%	140%
Methyl tert-butyl ether	3702359		<0.20	<0.20	NA	< 0.20	91%	50%	140%	107%	60%	130%	97%	50%	140%
1,1-Dichloroethane	3702359		<0.30	<0.30	NA	< 0.30	99%	50%	140%	90%	60%	130%	92%	50%	140%
Methyl Ethyl Ketone	3702359		<1.0	<1.0	NA	< 1.0	101%	50%	140%	100%	50%	140%	103%	50%	140%
cis- 1,2-Dichloroethylene	3702359		<0.20	<0.20	NA	< 0.20	95%	50%	140%	100%	60%	130%	102%	50%	140%
Chloroform	3702359		<0.20	<0.20	NA	< 0.20	101%	50%	140%	109%	60%	130%	115%	50%	140%
1,2-Dichloroethane	3702359		<0.20	<0.20	NA	< 0.20	115%	50%	140%	94%	60%	130%	106%	50%	140%
1,1,1-Trichloroethane	3702359		<0.30	<0.30	NA	< 0.30	94%	50%	140%	105%	60%	130%	97%	50%	140%
Carbon Tetrachloride	3702359		<0.20	<0.20	NA	< 0.20	101%	50%	140%	91%	60%	130%	82%	50%	140%
Benzene	3702359		<0.20	<0.20	NA	< 0.20	104%	50%	140%	99%	60%	130%	79%	50%	140%
1,2-Dichloropropane	3702359		<0.20	<0.20	NA	< 0.20	96%	50%	140%	89%	60%	130%	82%	50%	140%
Trichloroethylene	3702359		<0.20	<0.20	NA	< 0.20	116%	50%	140%	109%	60%	130%	110%	50%	140%
Bromodichloromethane	3702359		<0.20	<0.20	NA	< 0.20	99%	50%	140%	120%	60%	130%	112%	50%	140%
Methyl Isobutyl Ketone	3702359		<1.0	<1.0	NA	< 1.0	104%	50%	140%	97%	50%	140%	101%	50%	140%
1,1,2-Trichloroethane	3702359		<0.20	<0.20	NA	< 0.20	110%	50%	140%	99%	60%	130%	93%	50%	140%
Toluene	3702359		<0.20	<0.20	NA	< 0.20	102%	50%	140%	95%	60%	130%	90%	50%	140%
Dibromochloromethane	3702359		<0.10	<0.10	NA	< 0.10	102%	50%	140%	108%	60%	130%	101%	50%	140%
Ethylene Dibromide	3702359		<0.10	<0.10	NA	< 0.10	86%	50%	140%	93%	60%	130%	85%	50%	140%
Tetrachloroethylene	3702359		<0.20	<0.20	NA	< 0.20	111%	50%	140%	102%	60%	130%	98%	50%	140%
1,1,1,2-Tetrachloroethane	3702359		<0.10	<0.10	NA	< 0.10	98%	50%	140%	106%	60%	130%	93%	50%	140%
Chlorobenzene	3702359		<0.10	<0.10	NA	< 0.10	84%	50%	140%	95%	60%	130%	88%	50%	140%
Ethylbenzene	3702359		<0.10	<0.10	NA	< 0.10	104%	50%	140%	88%	60%	130%	81%	50%	140%
m & p-Xylene	3702359		<0.20	<0.20	NA	< 0.20	108%	50%	140%	103%	60%	130%	95%	50%	140%
Bromoform	3702359		<0.10	<0.10	NA	< 0.10	120%	50%	140%	118%	60%	130%	106%	50%	140%
Styrene	3702359		<0.10	<0.10	NA	< 0.10	76%	50%	140%	76%	60%	130%	75%	50%	140%
1,1,2,2-Tetrachloroethane	3702359		<0.10	<0.10	NA	< 0.10	114%	50%	140%	101%	60%	130%	82%	50%	140%
o-Xylene	3702359		<0.10	<0.10	NA	< 0.10	100%	50%	140%	104%	60%	130%	97%	50%	140%
1,3-Dichlorobenzene	3702359		<0.10	<0.10	NA	< 0.10	107%	50%	140%	116%	60%	130%	103%	50%	140%
1,4-Dichlorobenzene	3702359		<0.10	<0.10	NA	< 0.10	98%	50%	140%	112%	60%	130%	101%	50%	140%
1,2-Dichlorobenzene	3702359		<0.10	<0.10	NA	< 0.10	117%	50%	140%	108%	60%	130%	96%	50%	140%
n-Hexane	3702359		<0.20	<0.20	NA	< 0.20	89%	50%	140%	92%	60%	130%	94%	50%	140%
4-Bromofluorobenzene	3702359		85	86	2.0%	< 1	NA			NA			121%		

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Quality Assurance

CLIENT NAME: R.J. BURNSIDE & ASSOCIATES LTD.

AGAT WORK ORDER: 22T878643

PROJECT: 300044049

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Ninth Line, Mississauga

SAMPLED BY:Caitlin Dermott

Trace Organics Analysis (Continued)

RPT Date: Apr 07, 2022			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - PHCs F1 - F4 (-BTEX) (Water)															
F1 (C6 - C10)	3701932		<25	<25	NA	< 25	94%	60%	140%	106%	60%	140%	99%	60%	140%
F2 (C10 to C16)	3701862		< 100	< 100	NA	< 100	103%	60%	140%	75%	60%	140%	89%	60%	140%
F3 (C16 to C34)	3701862		< 100	< 100	NA	< 100	104%	60%	140%	69%	60%	140%	98%	60%	140%
F4 (C34 to C50)	3701862		< 100	< 100	NA	< 100	96%	60%	140%	78%	60%	140%	63%	60%	140%
O. Reg. 153(511) - OC Pesticides + PCBs (Water)															
Gamma-Hexachlorocyclohexane	3707229		< 0.01	< 0.01	NA	< 0.01	90%	50%	140%	88%	50%	140%	88%	50%	140%
Heptachlor	3707229		< 0.01	< 0.01	NA	< 0.01	89%	50%	140%	82%	50%	140%	81%	50%	140%
Aldrin	3707229		< 0.01	< 0.01	NA	< 0.01	90%	50%	140%	87%	50%	140%	86%	50%	140%
Heptachlor Epoxide	3707229		< 0.01	< 0.01	NA	< 0.01	93%	50%	140%	80%	50%	140%	77%	50%	140%
Endosulfan I	3707229		< 0.05	< 0.05	NA	< 0.05	98%	50%	140%	78%	50%	140%	77%	50%	140%
Endosulfan II	3707229		< 0.05	< 0.05	NA	< 0.05	98%	50%	140%	85%	50%	140%	70%	50%	140%
alpha - chlordane	3707229		< 0.1	< 0.1	NA	< 0.1	95%	50%	140%	82%	50%	140%	78%	50%	140%
gamma-Chlordane	3707229		< 0.2	< 0.2	NA	< 0.2	96%	50%	140%	85%	50%	140%	77%	50%	140%
op'-DDE	3707229		< 0.01	< 0.01	NA	< 0.01	105%	50%	140%	83%	50%	140%	91%	50%	140%
pp'-DDE	3707229		< 0.01	< 0.01	NA	< 0.01	96%	50%	140%	80%	50%	140%	76%	50%	140%
op'-DDD	3707229		< 0.05	< 0.05	NA	< 0.05	108%	50%	140%	102%	50%	140%	101%	50%	140%
pp'-DDD	3707229		< 0.05	< 0.05	NA	< 0.05	111%	50%	140%	83%	50%	140%	81%	50%	140%
op'-DDT	3707229		< 0.04	< 0.04	NA	< 0.04	89%	50%	140%	90%	50%	140%	97%	50%	140%
pp'-DDT	3707229		< 0.05	< 0.05	NA	< 0.05	85%	50%	140%	91%	50%	140%	78%	50%	140%
Dieldrin	3707229		< 0.02	< 0.02	NA	< 0.02	94%	50%	140%	88%	50%	140%	72%	50%	140%
Endrin	3707229		< 0.05	< 0.05	NA	< 0.05	80%	50%	140%	106%	50%	140%	108%	50%	140%
Methoxychlor	3707229		< 0.04	< 0.04	NA	< 0.04	93%	50%	140%	109%	50%	140%	102%	50%	140%
Hexachlorobenzene	3707229		< 0.01	< 0.01	NA	< 0.01	103%	50%	140%	87%	50%	140%	88%	50%	140%
Hexachlorobutadiene	3707229		< 0.01	< 0.01	NA	< 0.01	84%	50%	140%	79%	50%	140%	79%	50%	140%
Hexachloroethane	3707229		< 0.01	< 0.01	NA	< 0.01	80%	50%	140%	75%	50%	140%	80%	50%	140%
Aroclor 1242	3707229		< 0.1	< 0.1	NA	< 0.1	106%	60%	140%	NA	60%	140%	NA	60%	140%
Aroclor 1248	3707229		< 0.1	< 0.1	NA	< 0.1	98%	60%	140%	NA	60%	140%	NA	60%	140%
Aroclor 1254	3707229		< 0.1	< 0.1	NA	< 0.1	104%	60%	140%	NA	60%	140%	NA	60%	140%
Aroclor 1260	3707229		< 0.1	< 0.1	NA	< 0.1	92%	60%	140%	NA	60%	140%	NA	60%	140%
Polychlorinated Biphenyls	3707229		< 0.1	< 0.1	NA	< 0.1	107%	60%	140%	95%	60%	140%	77%	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:

AGAT Laboratories

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Quality Assurance

CLIENT NAME: R.J. BURNSIDE & ASSOCIATES LTD.

AGAT WORK ORDER: 22T878643

PROJECT: 300044049

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Ninth Line, Mississauga

SAMPLED BY:Caitlin Dermott

Water Analysis

RPT Date: Apr 07, 2022			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - Metals & Inorganics (Water)															
Dissolved Antimony	3703610		1.5	1.3	NA	< 1.0	99%	70%	130%	105%	80%	120%	105%	70%	130%
Dissolved Arsenic	3703610		3.3	2.9	NA	< 1.0	90%	70%	130%	101%	80%	120%	109%	70%	130%
Dissolved Barium	3703610		168	168	0.0%	< 2.0	101%	70%	130%	103%	80%	120%	106%	70%	130%
Dissolved Beryllium	3703610		<0.50	<0.50	NA	< 0.50	104%	70%	130%	116%	80%	120%	110%	70%	130%
Dissolved Boron	3703610		325	331	1.8%	< 10.0	99%	70%	130%	110%	80%	120%	102%	70%	130%
Dissolved Cadmium	3703610		<0.20	<0.20	NA	< 0.20	105%	70%	130%	105%	80%	120%	104%	70%	130%
Dissolved Chromium	3703610		<2.0	<2.0	NA	< 2.0	100%	70%	130%	104%	80%	120%	112%	70%	130%
Dissolved Cobalt	3703610		<0.50	0.52	NA	< 0.50	101%	70%	130%	113%	80%	120%	106%	70%	130%
Dissolved Copper	3703610		<1.0	<1.0	NA	< 1.0	96%	70%	130%	100%	80%	120%	104%	70%	130%
Dissolved Lead	3703610		<0.50	<0.50	NA	< 0.50	98%	70%	130%	105%	80%	120%	100%	70%	130%
Dissolved Molybdenum	3703610		9.89	8.28	17.7%	< 0.50	99%	70%	130%	106%	80%	120%	111%	70%	130%
Dissolved Nickel	3703610		2.6	2.9	NA	< 1.0	99%	70%	130%	114%	80%	120%	105%	70%	130%
Dissolved Selenium	3703610		2.2	2.2	NA	< 1.0	102%	70%	130%	106%	80%	120%	111%	70%	130%
Dissolved Silver	3703610		<0.20	<0.20	NA	< 0.20	96%	70%	130%	110%	80%	120%	102%	70%	130%
Dissolved Thallium	3703610		<0.30	<0.30	NA	< 0.30	101%	70%	130%	106%	80%	120%	103%	70%	130%
Dissolved Uranium	3703610		1.98	1.89	NA	< 0.50	98%	70%	130%	112%	80%	120%	109%	70%	130%
Dissolved Vanadium	3703610		1.47	1.18	NA	< 0.40	99%	70%	130%	111%	80%	120%	107%	70%	130%
Dissolved Zinc	3703610		<5.0	<5.0	NA	< 5.0	100%	70%	130%	99%	80%	120%	111%	70%	130%
Mercury	3689083		<0.02	<0.02	NA	< 0.02	105%	70%	130%	102%	80%	120%	102%	70%	130%
Chromium VI	3698993		<2	<2	NA	< 2	98%	70%	130%	100%	80%	120%	93%	70%	130%
Cyanide, Free	3701910		<2	<2	NA	< 2	96%	70%	130%	110%	80%	120%	119%	70%	130%
Dissolved Sodium	3703610		121000	121000	0.0%	< 50	100%	70%	130%	102%	80%	120%	100%	70%	130%
Chloride	3701991	3701991	83600	82000	1.9%	< 100	94%	70%	130%	104%	80%	120%	107%	70%	130%
Electrical Conductivity	3702058		317	317	0.0%	< 2	98%	90%	110%						
pH	3702058		7.37	7.42	0.7%	NA	102%	90%	110%						

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

O. Reg. 153(511) - Metals & Inorganics (Water)															
Dissolved Sodium	3701988	3701988	20800	20900	0.5%	< 50	101%	70%	130%	102%	80%	120%	96%	70%	130%

Certified By:

CHARTERED CHEMIST NIVINE BASILY — ASSOCIATION OF THE CHEMICAL PROFESSION OF ONTARIO

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Method Summary

CLIENT NAME: R.J. BURNSIDE & ASSOCIATES LTD.

AGAT WORK ORDER: 22T878643

PROJECT: 300044049

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Ninth Line, Mississauga

SAMPLED BY:Caitlin Dermott

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Gamma-Hexachlorocyclohexane	ORG-91-5112	modified from EPA SW-846 3510C & 8081B	GC/ECD
Heptachlor	ORG-91-5112	modified from EPA SW-846 3510C & 8081B	GC/ECD
Aldrin	ORG-91-5112	modified from EPA SW-846 3510C & 8081B	GC/ECD
Heptachlor Epoxide	ORG-91-5112	modified from EPA SW-846 3510C & 8081B	GC/ECD
Endosulfan I	ORG-91-5112	modified from EPA SW-846 3510C & 8081B	GC/ECD
Endosulfan II	ORG-91-5112	modified from EPA SW-846 3510C & 8081B	GC/ECD
Endosulfan	ORG-91-5112	modified from EPA SW-846 3510C & 8081B	CALCULATION
alpha - chlordane	ORG-91-5112	modified from EPA SW-846 3510C & 8081B	GC/ECD
gamma-Chlordane	ORG-91-5112	modified from EPA SW-846 3510C & 8081B	GC/ECD
Chlordane	ORG-91-5112	modified from EPA SW-846 3510C & 8081B	CALCULATION
op'-DDE	ORG-91-5112	modified from EPA SW-846 3510C & 8081B	GC/ECD
pp'-DDE	ORG-91-5112	modified from EPA SW-846 3510C & 8081B	GC/ECD
DDE	ORG-91-5112	modified from EPA SW-846 3510C & 8081B	CALCULATION
op'-DDD	ORG-91-5112	modified from EPA SW-846 3510C & 8081B	GC/ECD
pp'-DDD	ORG-91-5112	modified from EPA SW-846 3510C & 8081B	GC/ECD
DDD	ORG-91-5112	modified from EPA SW-846 3510C & 8081B	CALCULATION
op'-DDT	ORG-91-5112	modified from EPA SW-846 3510C & 8081B	GC/ECD
pp'-DDT	ORG-91-5112	modified from EPA SW-846 3510C & 8081B	GC/ECD
DDT	ORG-91-5112	modified from EPA SW-846 3510C & 8081B	CALCULATION
Dieldrin	ORG-91-5112	modified from EPA SW-846 3510C & 8081B	GC/ECD
Endrin	ORG-91-5112	modified from EPA SW-846 3510C & 8081B	GC/ECD
Methoxychlor	ORG-91-5112	modified from EPA SW-846 3510C & 8081B	GC/ECD
Hexachlorobenzene	ORG-91-5112	modified from EPA SW-846 3510C & 8081B	GC/ECD
Hexachlorobutadiene	ORG-91-5112	modified from EPA SW-846 3510C & 8081B	GC/ECD
Hexachloroethane	ORG-91-5112	modified from EPA SW-846 3510C & 8081B	GC/ECD
Aroclor 1242	ORG-91-5112	modified from EPA SW-846 3510C & 8082A	GC/ECD
Aroclor 1248	ORG-91-5112	modified from EPA SW-846 3510C & 8082A	GC/ECD

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Method Summary

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AGAT WORK ORDER: 22T878643

PROJECT: 300044049

ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Ninth Line, Mississauga

SAMPLED BY:Caitlin Dermott

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Aroclor 1254	ORG-91-5112	modified from EPA SW-846 3510C & 8082A	GC/ECD
Aroclor 1260	ORG-91-5112	modified from EPA SW-846 3510C & 8082A	GC/ECD
Polychlorinated Biphenyls	ORG-91-5112	modified from EPA SW-846 3510C & 8082A	GC/ECD
TCMX	ORG-91-5112	modified from EPA SW-846 3510C & 8081B	GC/ECD
Decachlorobiphenyl	ORG-91-5112	modified from EPA SW-846 3510C & 8081B	GC/ECD
Toluene-d8	VOL-91-5009	modified from EPA SW-846 5030C & 8260D	(P&T)GC/MS
F1 (C6 - C10)	VOL-91- 5010	modified from MOE PHC E3421	(P&T)GC/FID
F1 (C6 to C10) minus BTEX	VOL-91-5010	modified from MOE PHC E3421	(P&T)GC/FID
F2 (C10 to C16)	VOL-91-5010	modified from MOE PHC E3421	GC / FID
F3 (C16 to C34)	VOL-91-5010	modified from MOE PHC E3421	GC / FID
F4 (C34 to C50)	VOL-91-5010	modified from MOE PHC E3421	GC / FID
Gravimetric Heavy Hydrocarbons	VOL-91-5010	modified from MOE PHC E3421	BALANCE
Terphenyl	VOL-91-5009	modified from MOE PHC E3421	GC/FID
Sediment			
Dichlorodifluoromethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Vinyl Chloride	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Bromomethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Trichlorofluoromethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Acetone	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,1-Dichloroethylene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Methylene Chloride	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
trans- 1,2-Dichloroethylene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Methyl tert-butyl ether	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,1-Dichloroethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Methyl Ethyl Ketone	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
cis- 1,2-Dichloroethylene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Chloroform	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,2-Dichloroethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,1,1-Trichloroethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Carbon Tetrachloride	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Benzene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS

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ATTENTION TO: Caitlin Dermott

SAMPLING SITE:Ninth Line, Mississauga

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PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
1,2-Dichloropropane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Trichloroethylene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Bromodichloromethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Methyl Isobutyl Ketone	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,1,2-Trichloroethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Toluene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Dibromochloromethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Ethylene Dibromide	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Tetrachloroethylene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,1,1,2-Tetrachloroethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Chlorobenzene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Ethylbenzene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
m & p-Xylene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Bromoform	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Styrene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,1,2,2-Tetrachloroethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
o-Xylene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,3-Dichlorobenzene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,4-Dichlorobenzene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,2-Dichlorobenzene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,3-Dichloropropene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Xylenes (Total)	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
n-Hexane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Toluene-d8	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
4-Bromofluorobenzene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS

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SAMPLING SITE:Ninth Line, Mississauga

SAMPLED BY:Caitlin Dermott

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Water Analysis			
Dissolved Antimony	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Arsenic	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Barium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Beryllium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Boron	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Cadmium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Chromium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Cobalt	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Copper	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Lead	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Molybdenum	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Nickel	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Selenium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Silver	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Thallium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Uranium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Vanadium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Zinc	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Mercury	MET-93-6100	modified from EPA 245.2 and SM 3112 B	CVAAS
Chromium VI	INOR-93-6073	modified from SM 3500-CR B	LACHAT FIA
Cyanide, Free	INOR-93-6052	modified from ON MOECC E3015, SM 4500-CN- I, G-387	TECHNICON AUTO ANALYZER
Dissolved Sodium	MET-93-6105	modified from EPA 6010D	ICP/OES
Chloride	INOR-93-6004	modified from SM 4110 B	ION CHROMATOGRAPH
Electrical Conductivity	INOR-93-6000	SM 2510 B	PC TITRATE
pH	INOR-93-6000	modified from SM 4500-H+ B	PC TITRATE

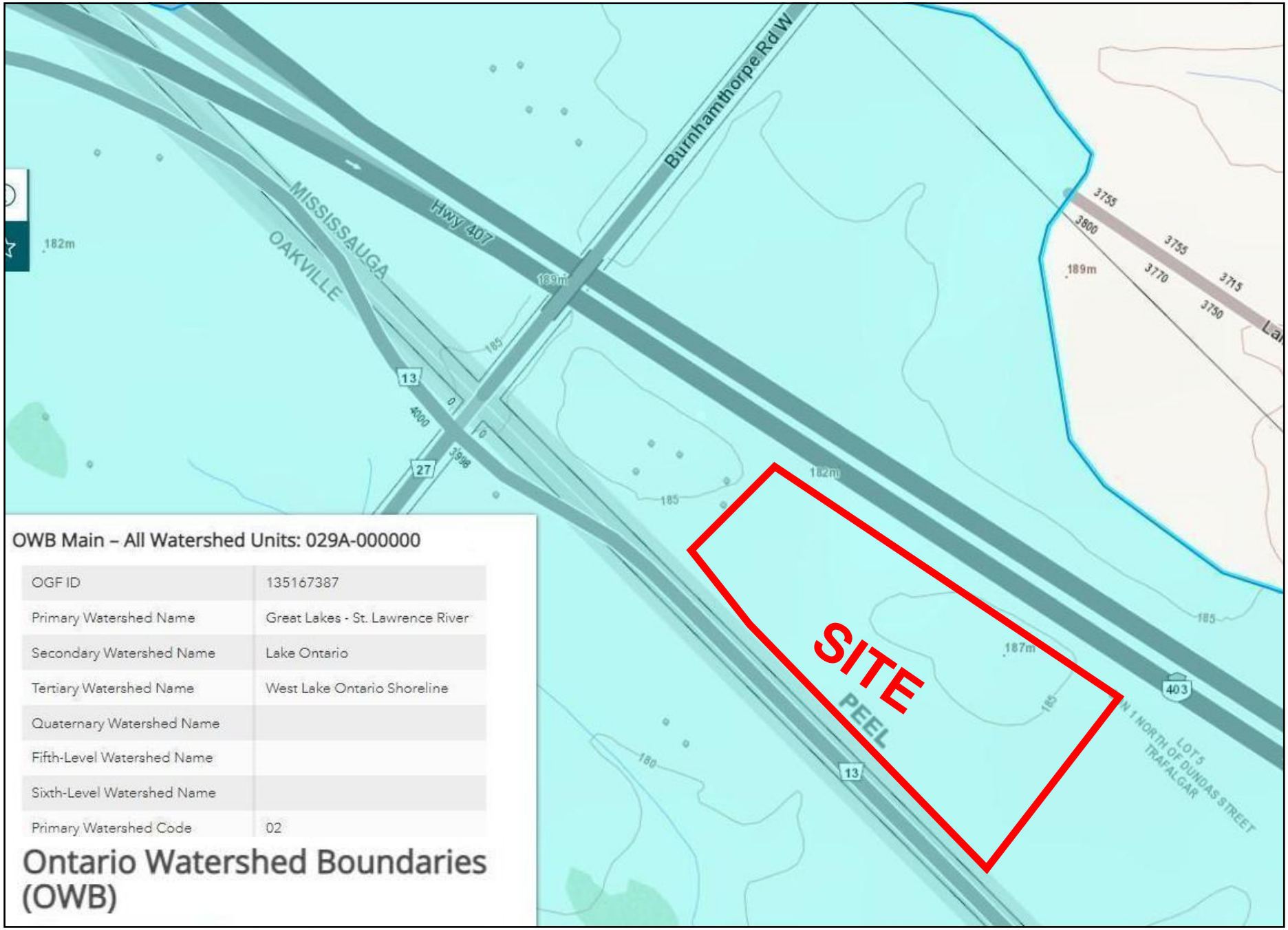
BURNSIDE

[THE DIFFERENCE IS OUR PEOPLE]

Appendix H

Watershed and Surface Water Flow Maps

WATERSHED MAP - Ninth Line and Burnhamthorpe Road area



SURFACE FLOW MAP - Ninth Line and Burnhamthorpe Road area