TECHNICAL SPECIFICATIONS FOR :

PROJECT: # MISSISSAUGA FIRE STATION 124

PROJECT No.: 23116

TENDER No.: PRC004616

DATE: JULY 2024

BINDER: C ARCHITECTURAL DETAILS & GEOTECHNICAL REPORTS

CLIENT:

CORPORATION OF THE CITY OF MISSISSAUGA
300 CITY CENTRE DRIVE
MISSISSAUGA, ONTARIO
L5B 3C1

HOSSACK ARCHITECTURE
105-1939 IRONOAK WAY
OAKVILLE, ONTARIO L6H 3V8
Tel (905) 815-8284

exp.

stephenson ENGINEERING
A SALAS O'BRIEN COMPANY

FRP inc. landscape architects

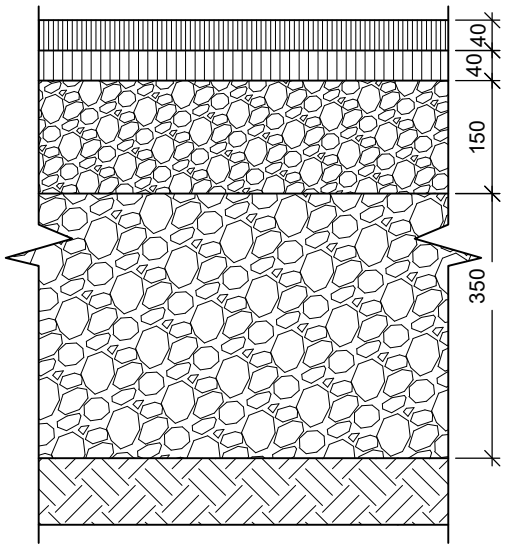
MGM CONSULTING INC
Consulting Engineering & Project Management

No. of Pages

SPECIFICATIONS BINDER "C"

ARCHITECTURAL DETAILS

END OF TABLE OF CONTENTS



HL3 (OPSS 1150) ASPHALT SURFACE COURSE

HL8 (OPSS 1150) ASPHALT SURFACE COURSE

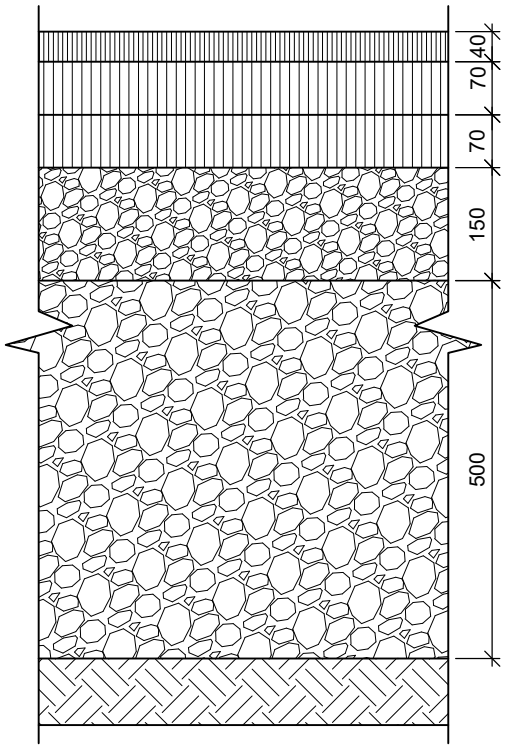
GRANULAR 'A' (19mm CRUSHED LIMESTONE) (OPSS 1010)

GRANULAR 'B' TYPE I (OPSS 1010) OR 50mm CRUSHER RUN LIMESTONE

SUBGRADE

MEDIUM DUTY ASPHALT

TYPICAL INSTALLATION



HL3 (OPSS 1150) ASPHALT SURFACE COURSE

HL8 (OPSS 1150) ASPHALT SURFACE COURSE

HL8 (OPSS 1150) ASPHALT SURFACE COURSE

GRANULAR 'A' (19mm CRUSHED LIMESTONE) (OPSS 1010)

GRANULAR 'B' TYPE II (OPSS 1010) OR 50mm CRUSHER RUN LIMESTONE

SUBGRADE

HEAVY DUTY ASPHALT

TYPICAL INSTALLATION

NOTE:
REFER TO SOILS REPORT TO CONFIRM THAT ADDITIONAL DEPTH IS NOT REQUIRED AND THAT DEPTHS/MATERIALS OF ASPHALT AND SUBGRADE COMPONENTS MATCH THESE MINIMUM STANDARDS.

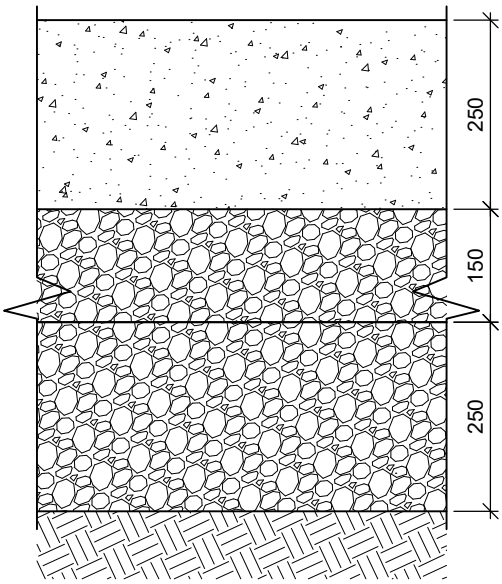
ASPHALT DETAIL

PROJ:	23116
SCALE:	1:10
DRAWN:	BCM
DATE:	24 06 25

HOSSACK & ASSOCIATES ARCHITECTS

ISSUE/REV. 00

AD 200



CONCRETE (CLASS C2 EXPOSURE, 32MPa)

GRANULAR 'A' (19mm CRUSHER RUN LIMESTONE) (OPSS 1010)

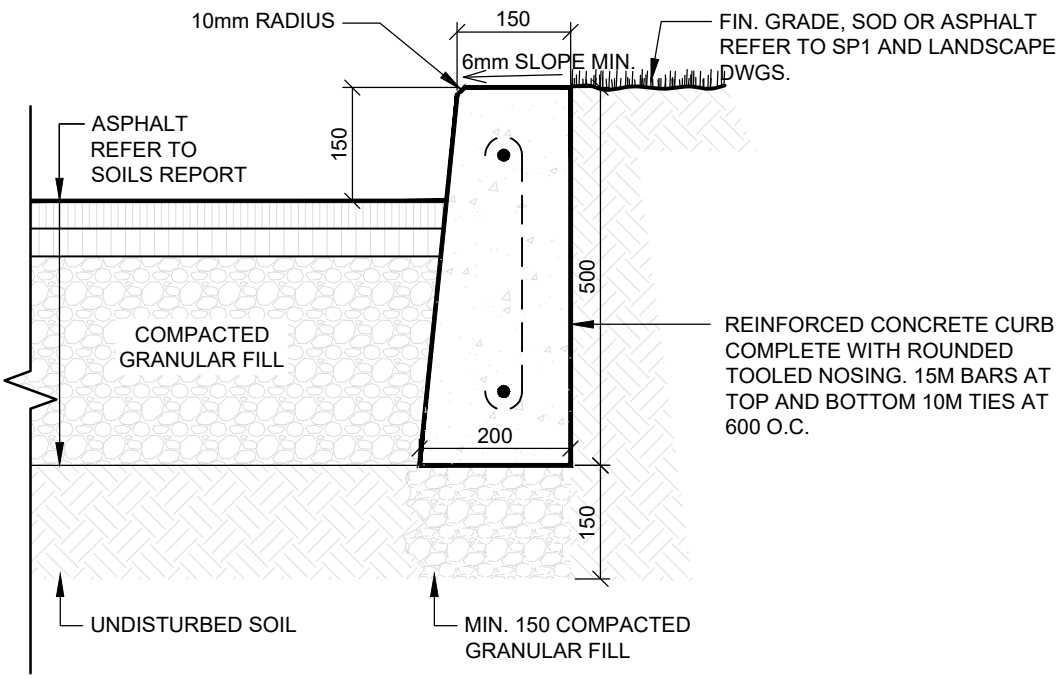
GRANULAR 'B' OR 50mm CRUSHER RUN LIMESTONE

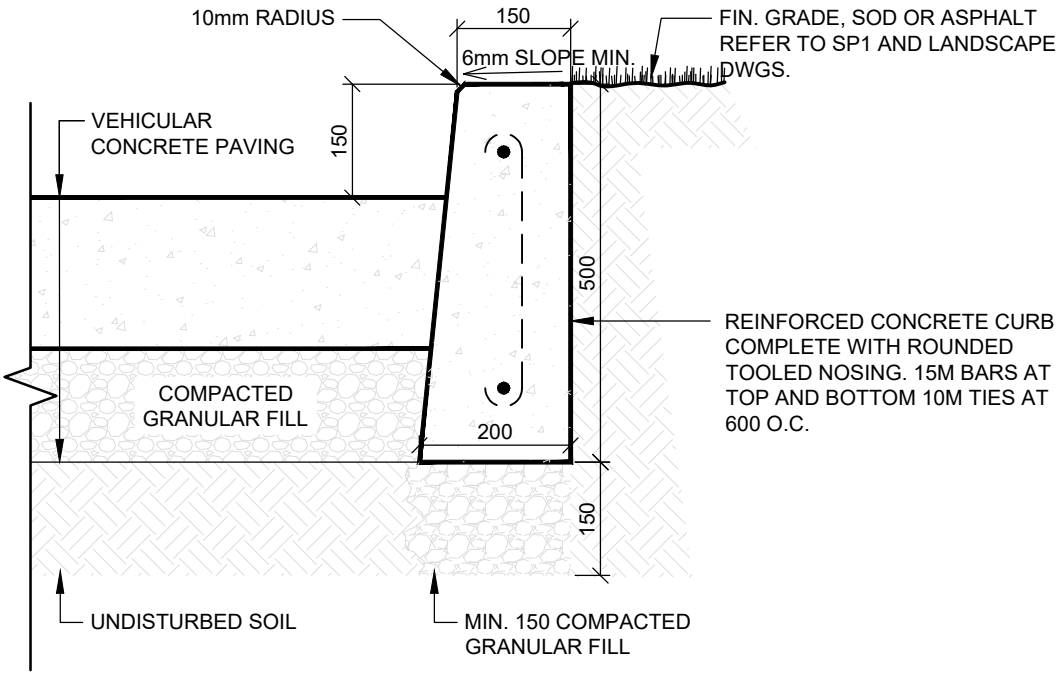
SUBGRADE

CONCRETE DRIVEWAY
TYPICAL INSTALLATION

NOTE:
All granular materials used in the construction of the rigid concrete pavement shall be compacted to 100 % of Standard Proctor maximum dry density (SPMDD).
- CONCRETE SHALL BE PLACED WITH A MIX TEMPERATURE WITHIN THE RANGE OF 10°C AND 28°C.

CONCRETE DRIVEWAY	PROJ: 23116 SCALE: 1:10 DRAWN: BCM DATE: 24 06 25	HOSSACK & ASSOCIATES ARCHITECTS	ISSUE/REV. 00 AD 201





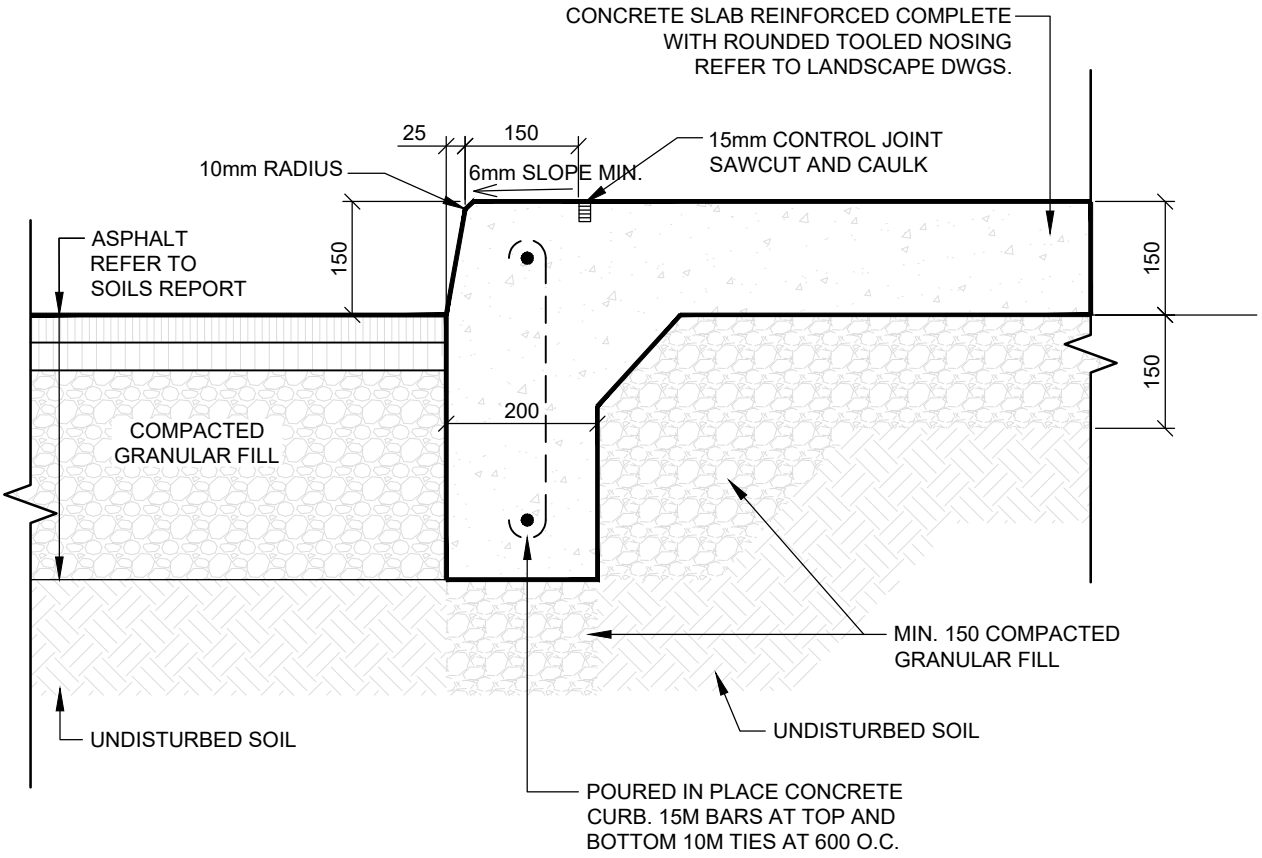
CONCRETE CURB AT FINISHED GRADE
(SOD/PLANTING)

PROJ:	23116
SCALE:	1:10
DRAWN:	KB
DATE:	22 08 17

HOSSACK
& ASSOCIATES
ARCHITECTS

ISSUE/REV.
00

AD
203



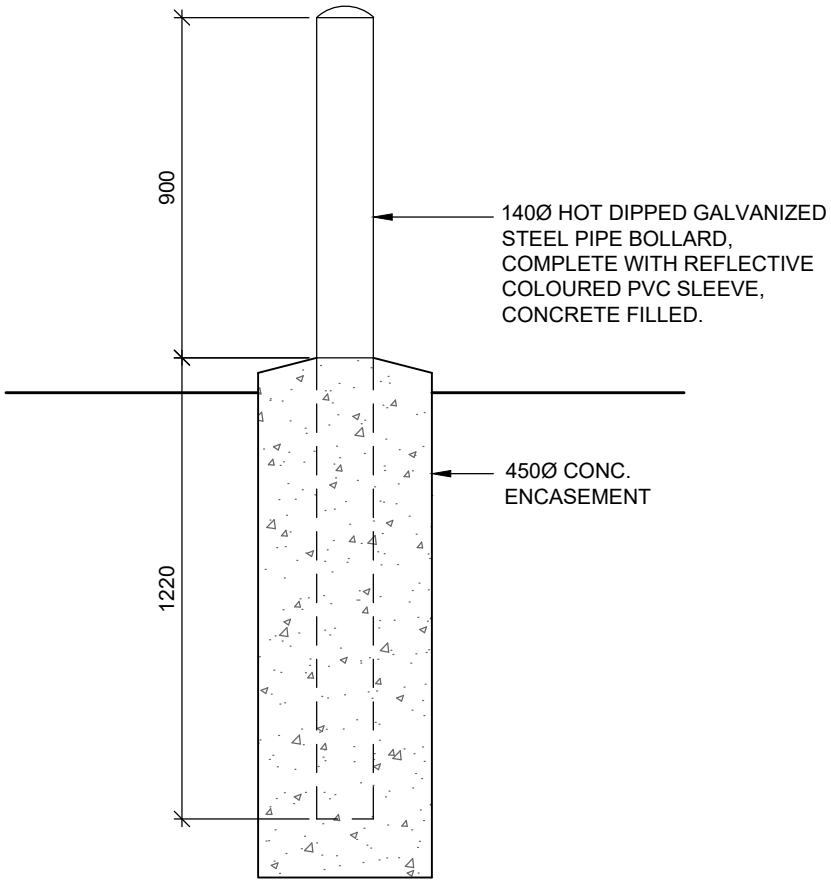
CONCRETE CURB/ SIDEWALK AT ASPHALT

PROJ:	23116
SCALE:	1:10
DRAWN:	BCM
DATE:	24 06 25

HOSSACK & ASSOCIATES ARCHITECTS

ISSUE/REV. 00

AD 204



BOLLARD DETAIL

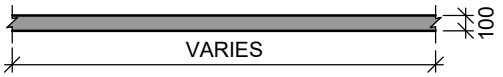
PROJ:	23116
SCALE:	1:20
DRAWN:	BCM
DATE:	22 10 28

HOSSACK & ASSOCIATES ARCHITECTS

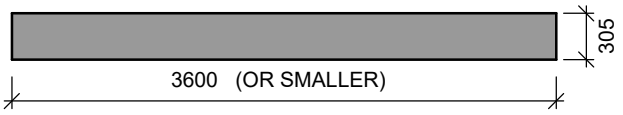
ISSUE/REV. 00

AD 210

SOLID CENTER LINE
LINE TYPE 1



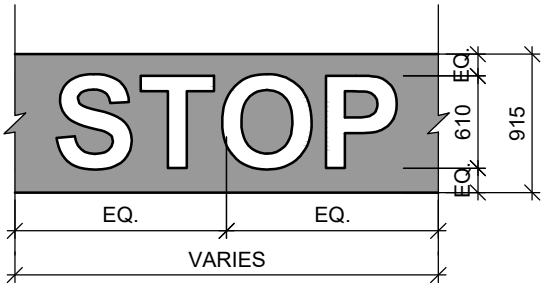
STOP BAR
LINE TYPE 2



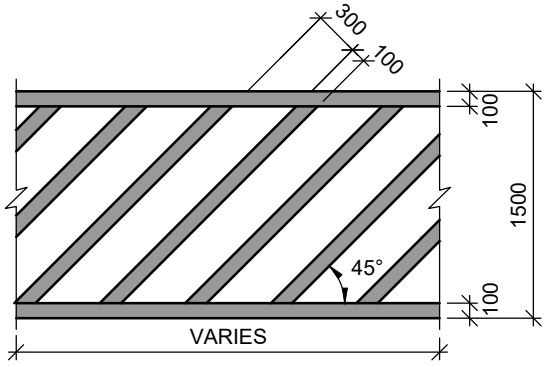
INTERIOR STOP BAR
LINE TYPE 3

BAR COLOUR: YELLOW
TEXT COLOUR: WHITE

REFER TO ARCH. DWGS.
FOR LOCATIONS



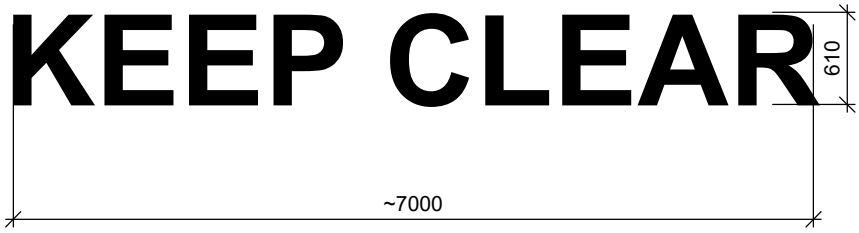
WALKWAY DESIGNATION
LINE TYPE 4



INTERIOR KEEP CLEAR
LINE TYPE 5

BAR COLOUR: YELLOW
TEXT COLOUR: WHITE

REFER TO ARCH. DWGS.
FOR LOCATIONS



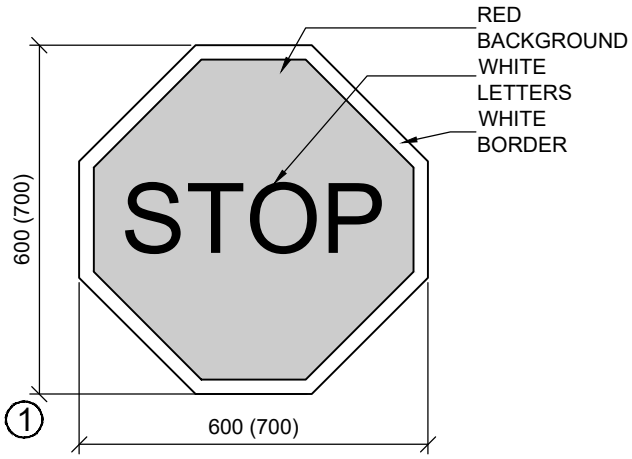
PAVEMENT MARKING LINES

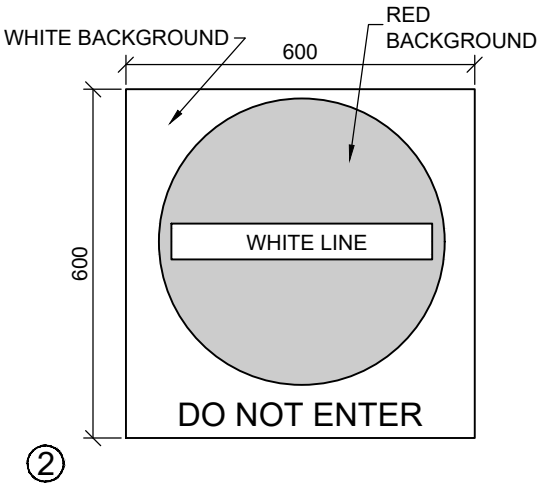
PROJ:	23116
SCALE:	NTS
DRAWN:	KB
DATE:	22 08 17

HOSSACK & ASSOCIATES ARCHITECTS

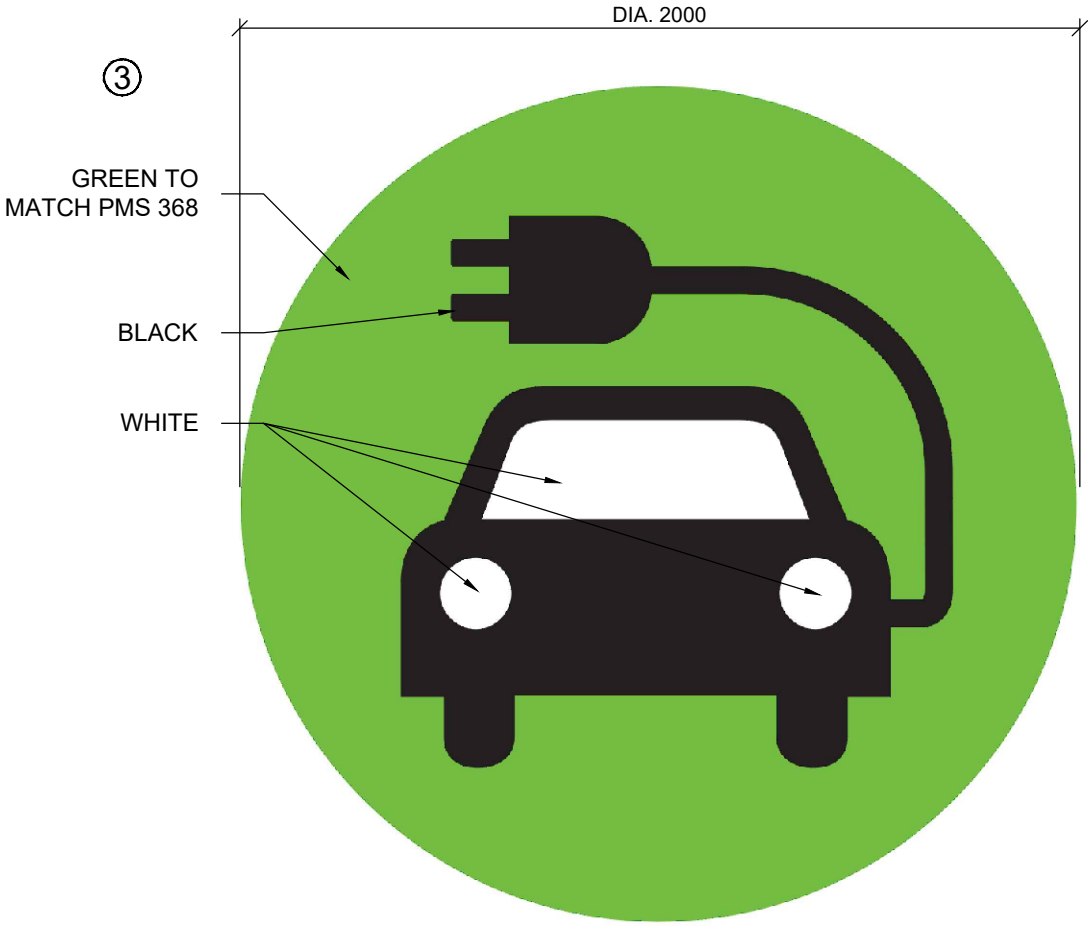
ISSUE/REV.

AD 251



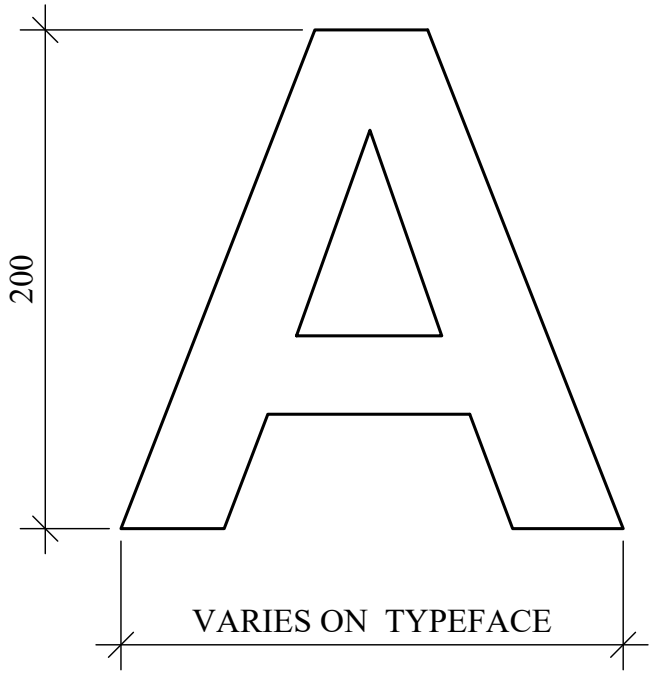


NOTE: ALL SIGNS TO BE FULL SIZE AND FORMAT AS PER MUNICIPAL STANDARDS. POSTS REQUIRED FOR ALL SIGNS



SITE SIGNAGE	PROJ: 23116 SCALE: N.T.S. DRAWN: BCM DATE: 22 10 28	HOSSACK & ASSOCIATES ARCHITECTS	ISSUE/REV. 00	AD 256

Type 23



NOTES:

- 6mm ACRYLIC CUT-OUT LETTERING.
- COLOUR TO BE CONFIRMED BY ARCHITECT.
- WALL MOUNT: TAPE AND SILICONE.
- REFER TO SIGNAGE SCHEDULE FOR LOCATION, QUANTITY AND VERBIAGE.

FIRE STATION INTERIOR SIGNAGE

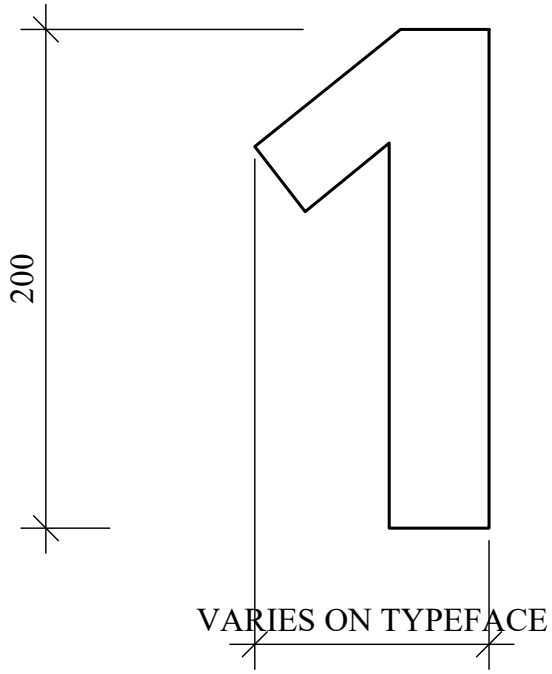
PROJ: 23116
SCALE: NTS
DRAWN: BCM
DATE: 22 10 28

HOSSACK & ASSOCIATES ARCHITECTS

AD 300

ISSUE/REV.

Type 23



NOTES:
- 6mm ACRYLIC CUT-OUT NUMBERING.
- COLOUR TO BE CONFIRMED BY ARCHITECT.
- WALL MOUNT: TAPE AND SILICONE.
- REFER TO SIGNAGE SCHEDULE FOR LOCATION, QUANTITY AND VERBIAGE.

FIRE STATION INTERIOR SIGNAGE

PROJ: 23116
SCALE: NTS
DRAWN: BCM
DATE: 22 10 28

HOSSACK & ASSOCIATES ARCHITECTS

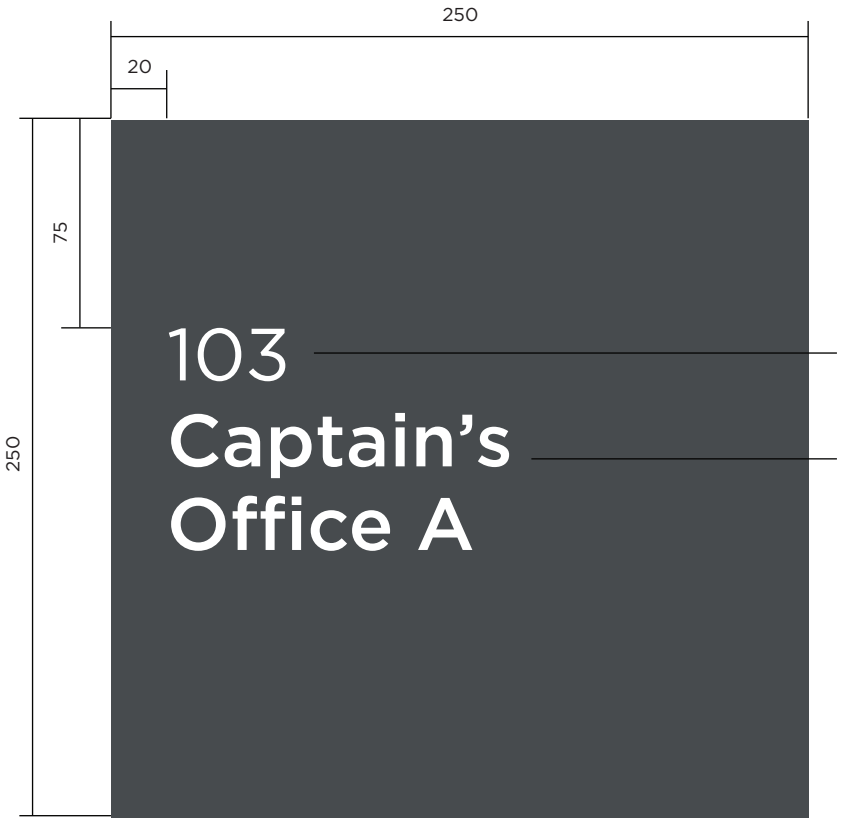
AD 300

ISSUE/REV.

- 6mm thick acrylic face painted - Graphics printed directly
- 6mm Photopolymer painted – hot stamped on raised text
- Installation method - Supply and install with 3M VHB Tape
- interior signage note: DO NOT APPLY colour to braille

ROOM ID SIGNS

GOTHAM MEDIUM
65PT
75PT LEADING
0 TRACKING



GOTHAM BOOK
75PT
85PT LEADING
0 TRACKING

GOTHAM MEDIUM
75PT
85PT LEADING
0 TRACKING

SIGN COLOUR

Benjamin Moore
2126-20 Raccoon Fur

AD 300

Washrooms & Showers

AD 300

SIGN TYPE: 1

Change Room

AD 300

SIGN TYPE: 2

Washroom & Shower

AD 300

SIGN TYPE: 3

Clean Zone

No Gear Beyond This Point

AD 300

SIGN TYPE: 4

100 Vestibule

AD 300

SIGN TYPE: 5

103 Captain’s Office A

AD 300

SIGN TYPE: 6

104 Captain’s Office B

AD 300

SIGN TYPE: 7

105 Sprinkler Room

AD 300

SIGN TYPE: 8

106 Janitorial Storage

AD 300

SIGN TYPE: 9

107

Locker Room

AD 300

SIGN TYPE: 10

112

IT Room

AD 300

SIGN TYPE: 11

120

Lounge

AD 300

SIGN TYPE: 12

121

Fitness Room

AD 300

SIGN TYPE: 13

123
Dormitory A

AD 300

SIGN TYPE: 14

124
Dormitory B

AD 300

SIGN TYPE: 15

129

Mechanical Room

No Storage

AD 300

SIGN TYPE: 16

131 Apparatus Bay

AD 300

SIGN TYPE: 17

132

Compressor Room

AD 300

SIGN TYPE: 18

133

Storage Room

AD 300

SIGN TYPE: 19

134

Laundry Room

AD 300

SIGN TYPE: 20

135 Workshop

AD 300

SIGN TYPE: 21

136
Bunker
Gear Room

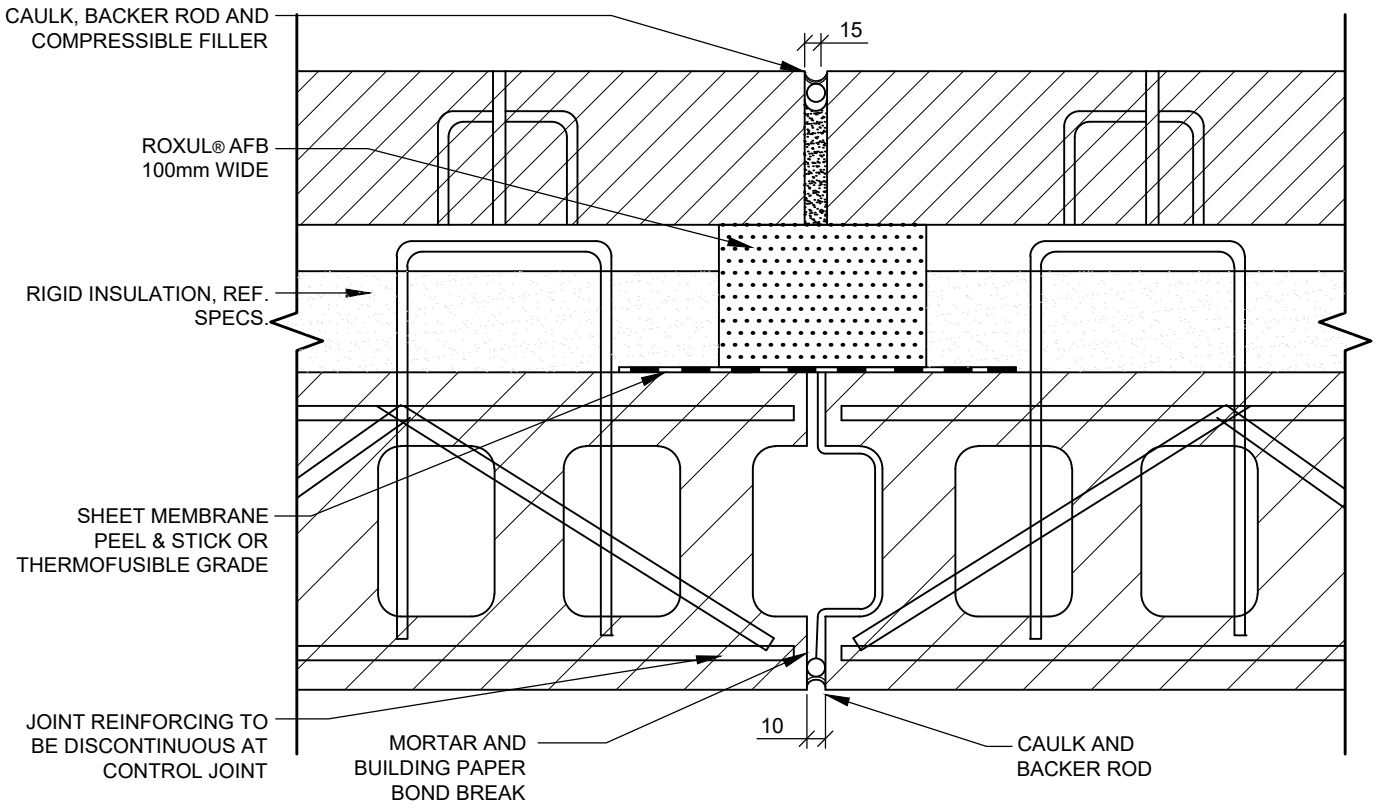
AD 300

SIGN TYPE: 22

137
SCBA Storage

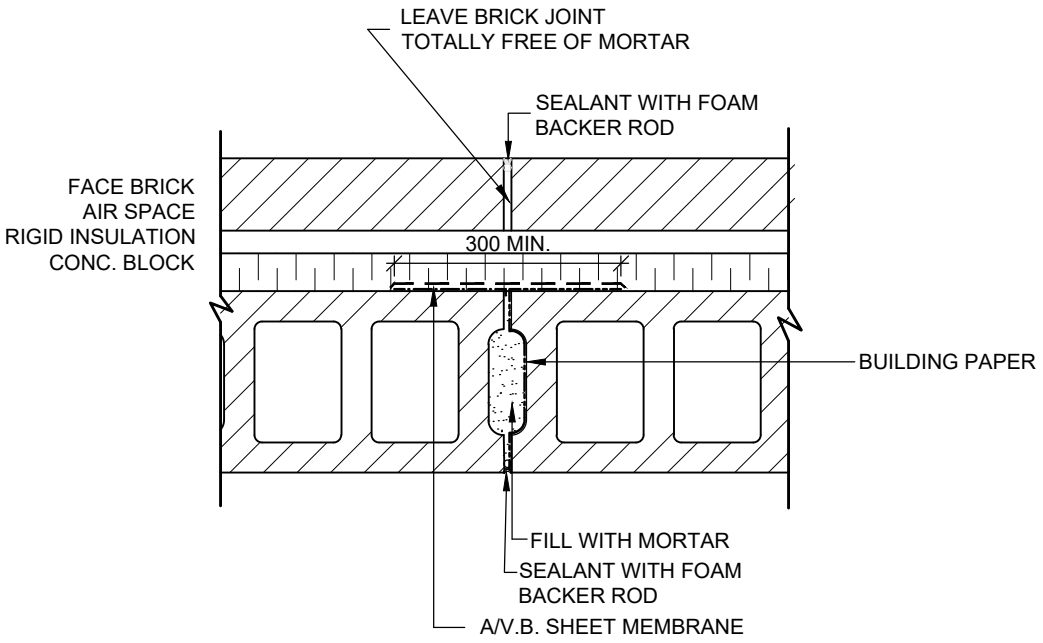
AD 300

SIGN TYPE: 23



VERTICAL FIRE STOPPING

FIRESTOPPING DETAIL AT CAVITY WALL	PROJ: 23116 SCALE: 1:5 DRAWN: DT DATE: 22 10 28	HOSSACK & ASSOCIATES ARCHITECTS	ISSUE/REV. 00 AD 400



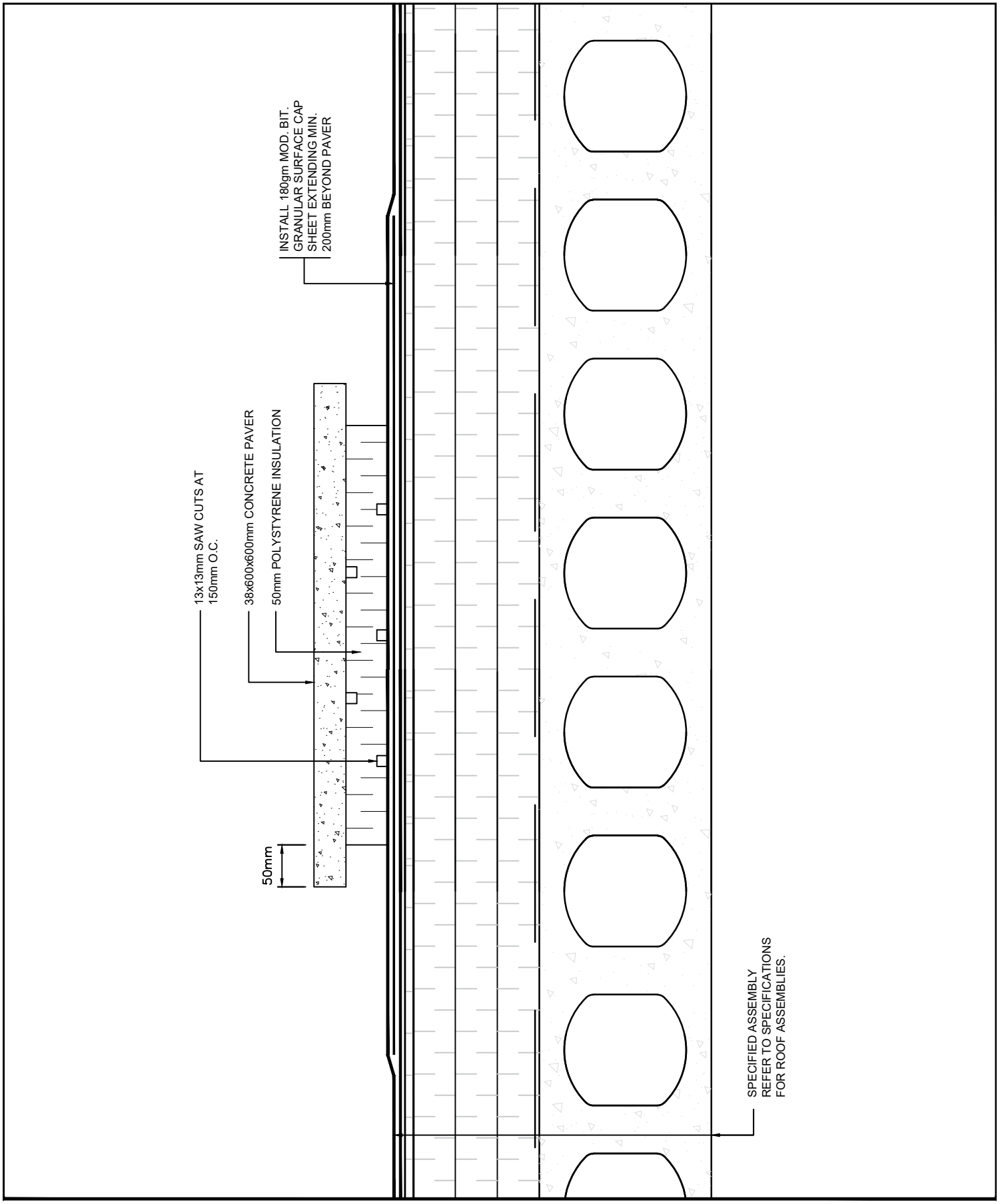
EXTERIOR CAVITY WALL CONTROL JOINT DETAIL

PROJ:	23116
SCALE:	1:10
DRAWN:	DT
DATE:	22 10 28

HOSSACK & ASSOCIATES ARCHITECTS

ISSUE/REV. 00

AD 401



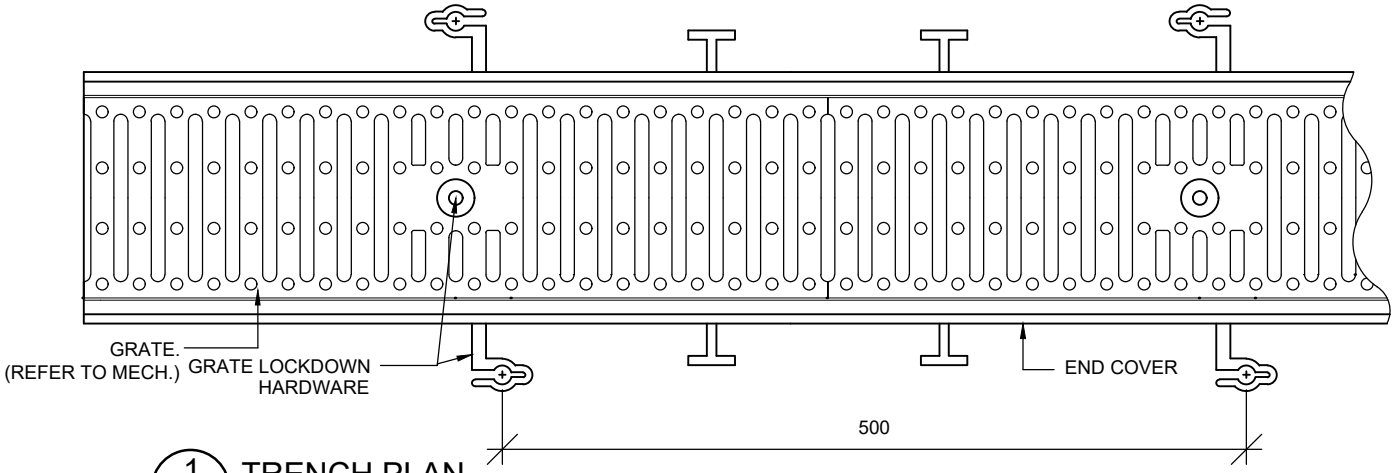
CONCRETE PAVER DETAIL

PROJ:	23116
SCALE:	NTS
DRAWN:	KB
DATE:	20 11 19

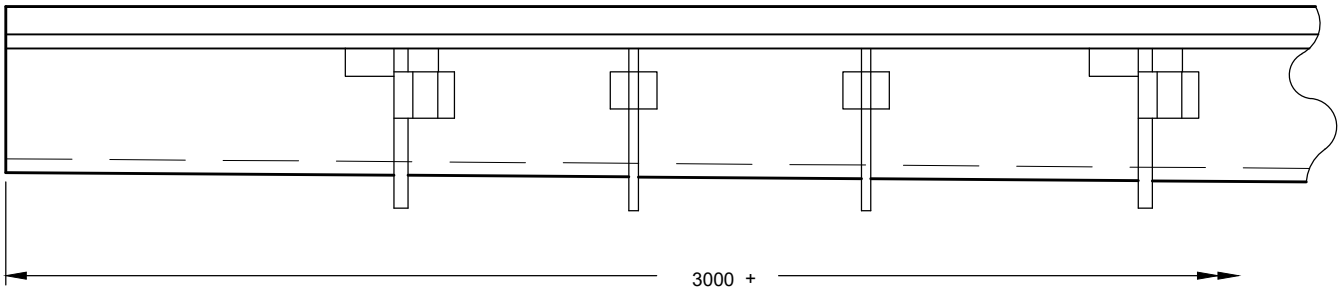
HOSSACK & ASSOCIATES ARCHITECTS

ISSUE/REV. 00

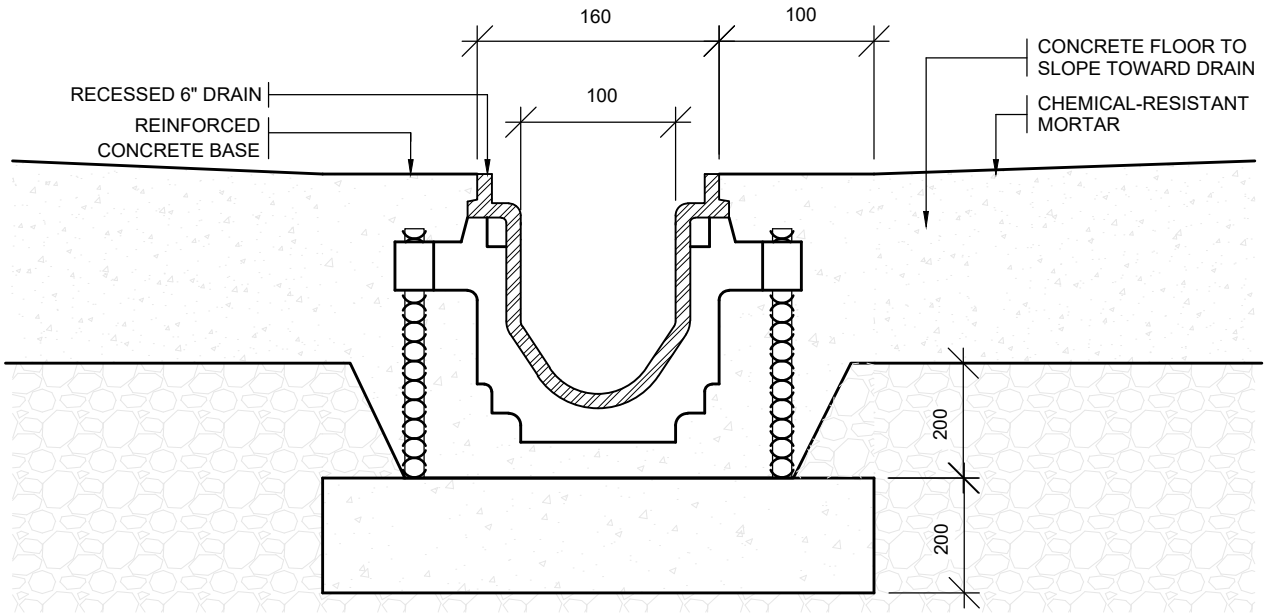
AD 461



1 / 510 TRENCH PLAN
1:5



2 / 510 TRENCH SECTION 1
1:5



3 / 510 TRENCH SECTION 2
1:5

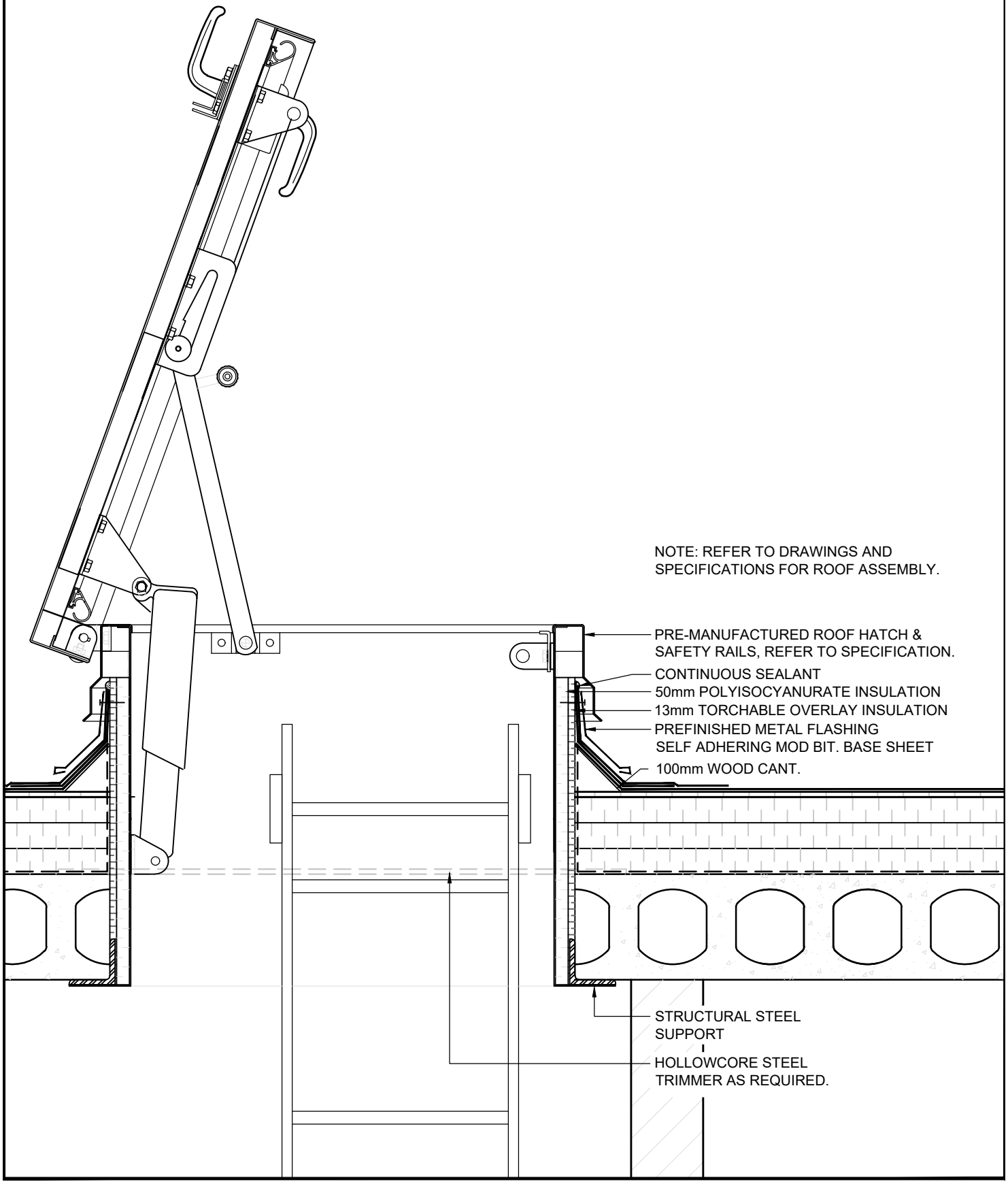
FLOOR TRENCH DRAIN

PROJ:	23116
SCALE:	1:5
DRAWN:	DT
DATE:	22 10 28

HOSSACK & ASSOCIATES ARCHITECTS

ISSUE/REV. 00

AD 510



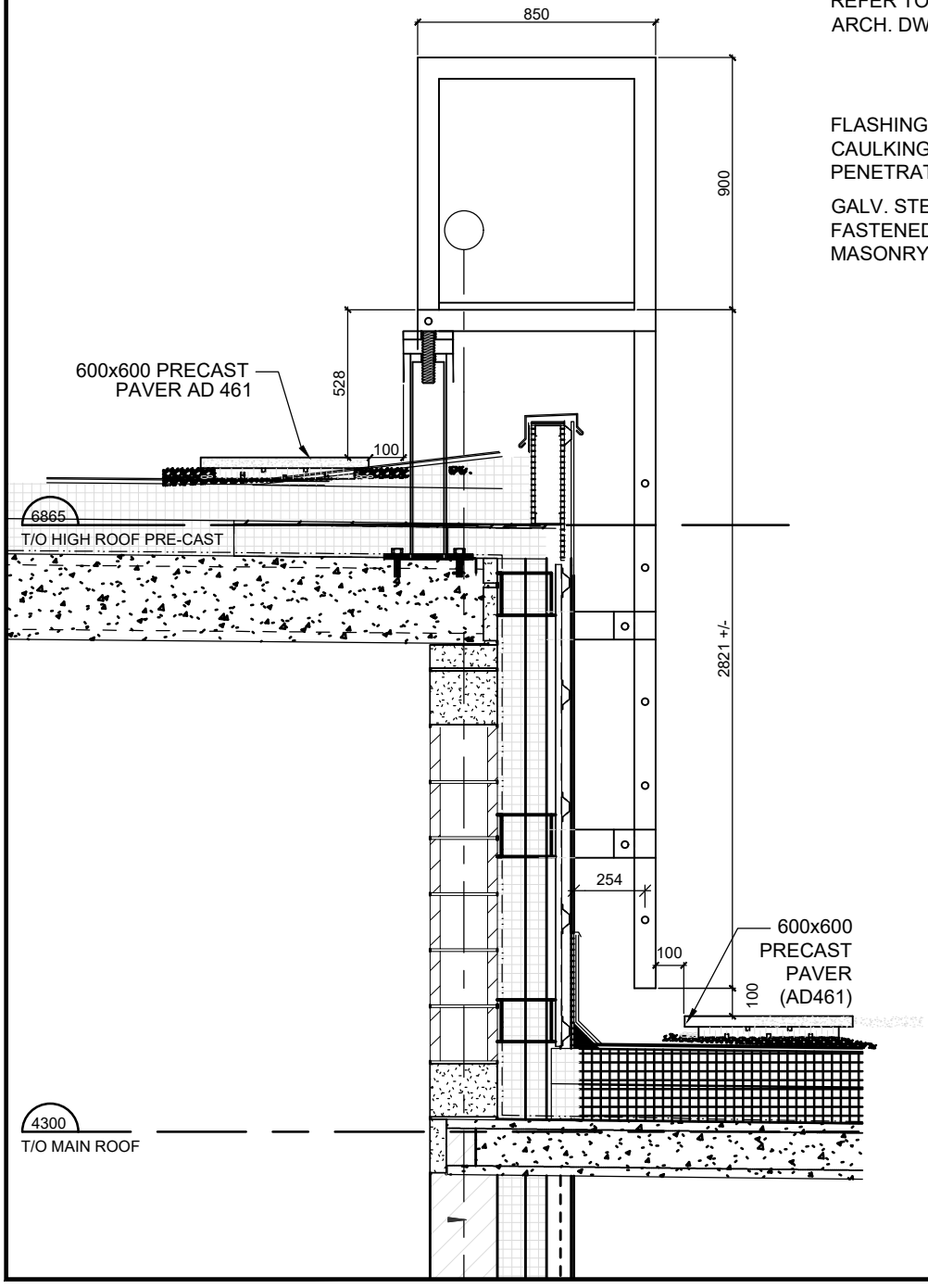
ROOF HATCH

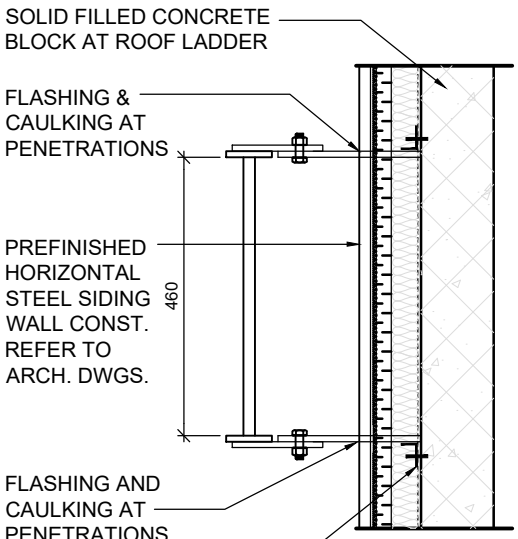
PROJ:	23116
SCALE:	1:10
DRAWN:	KB
DATE:	22 08 17

HOSSACK & ASSOCIATES ARCHITECTS

ISSUE/REV.

AD 516





PLAN

NOTE:
CONTRACTOR TO PROVIDE ENGINEERED SHOP DRAWINGS FOR LADDER & CONNECTIONS. GRAPHICS AND DIMENSIONS SHOWN FOR REFERENCE ONLY

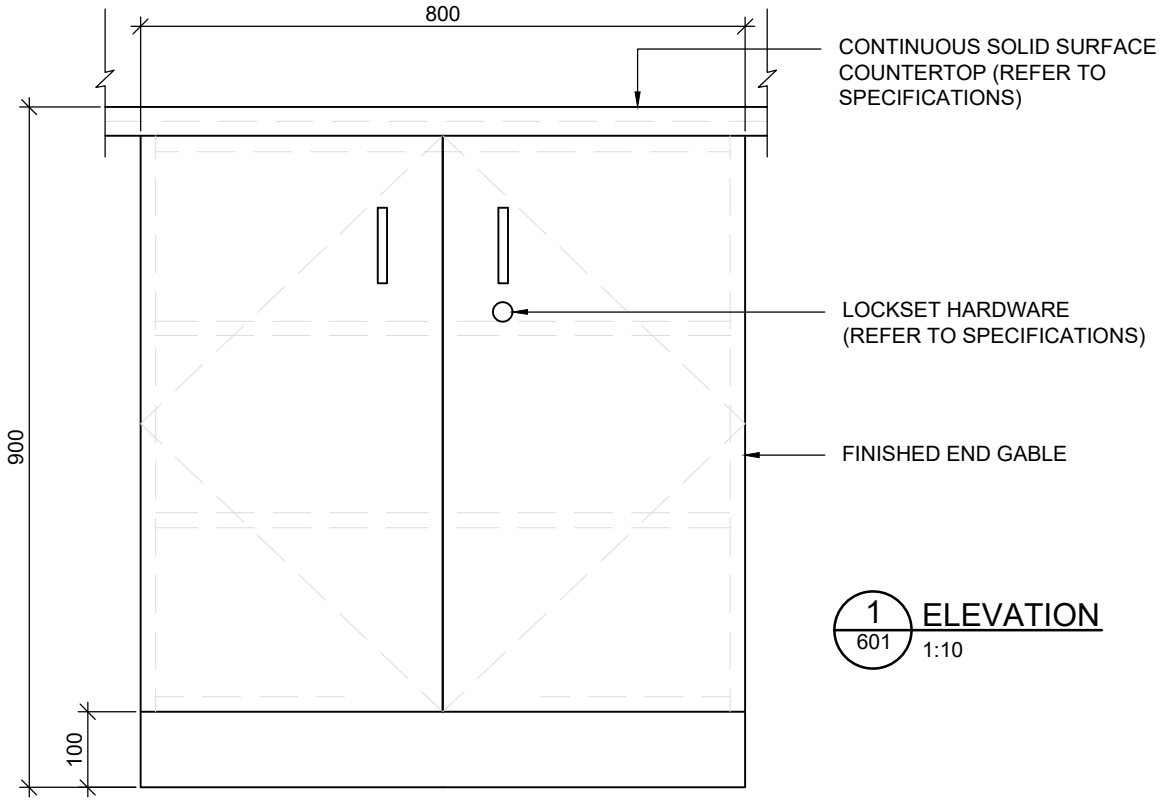
ROOF ACCESS LADDER

PROJ:	23116
SCALE:	N.T.S.
DRAWN:	BCM
DATE:	22 10 28

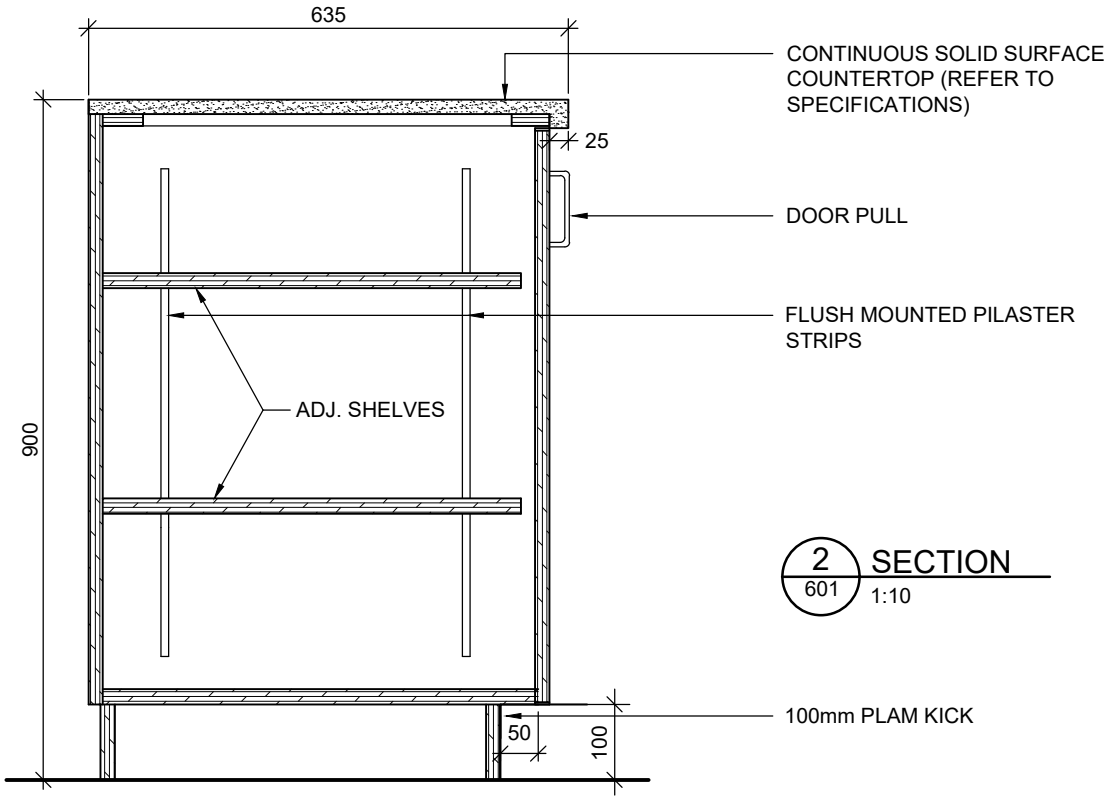
HOSSACK & ASSOCIATES ARCHITECTS

ISSUE/REV. 00

AD 517



1/601 ELEVATION
1:10



2/601 SECTION
1:10

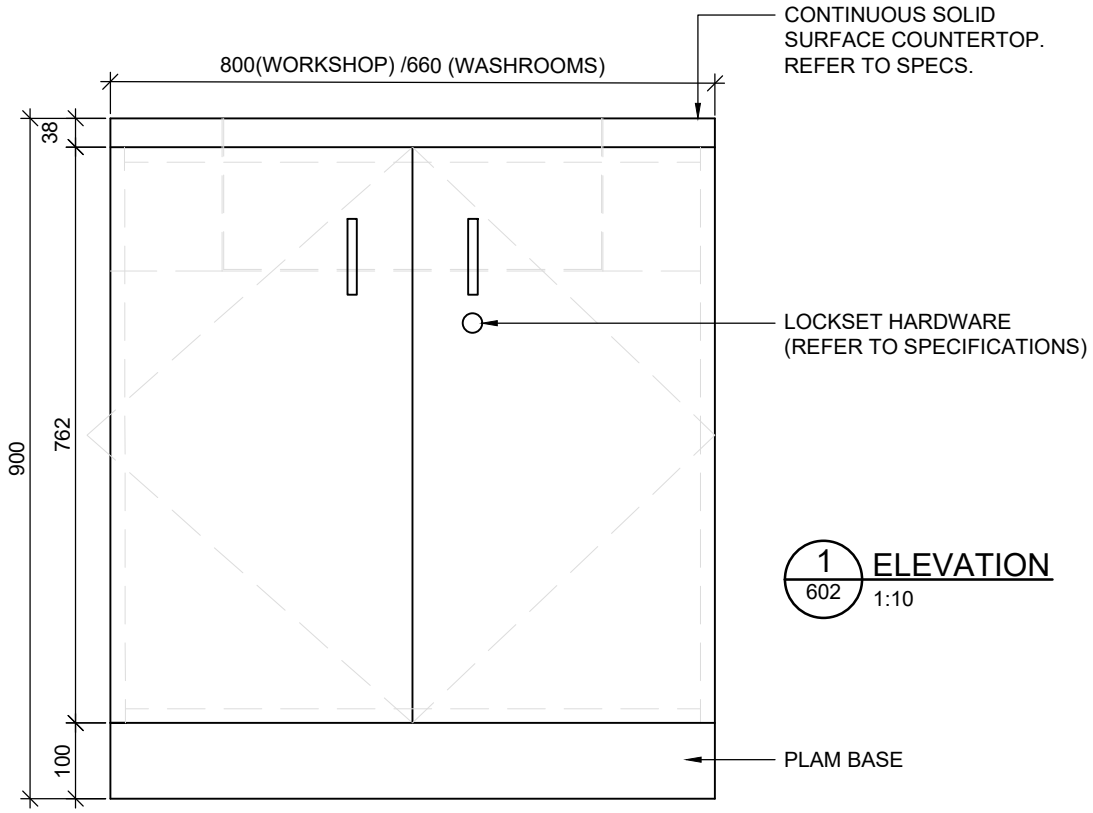
BASE CABINET TYPE B1

PROJ:	23116
SCALE:	1:10
DRAWN:	KB
DATE:	22 08 17

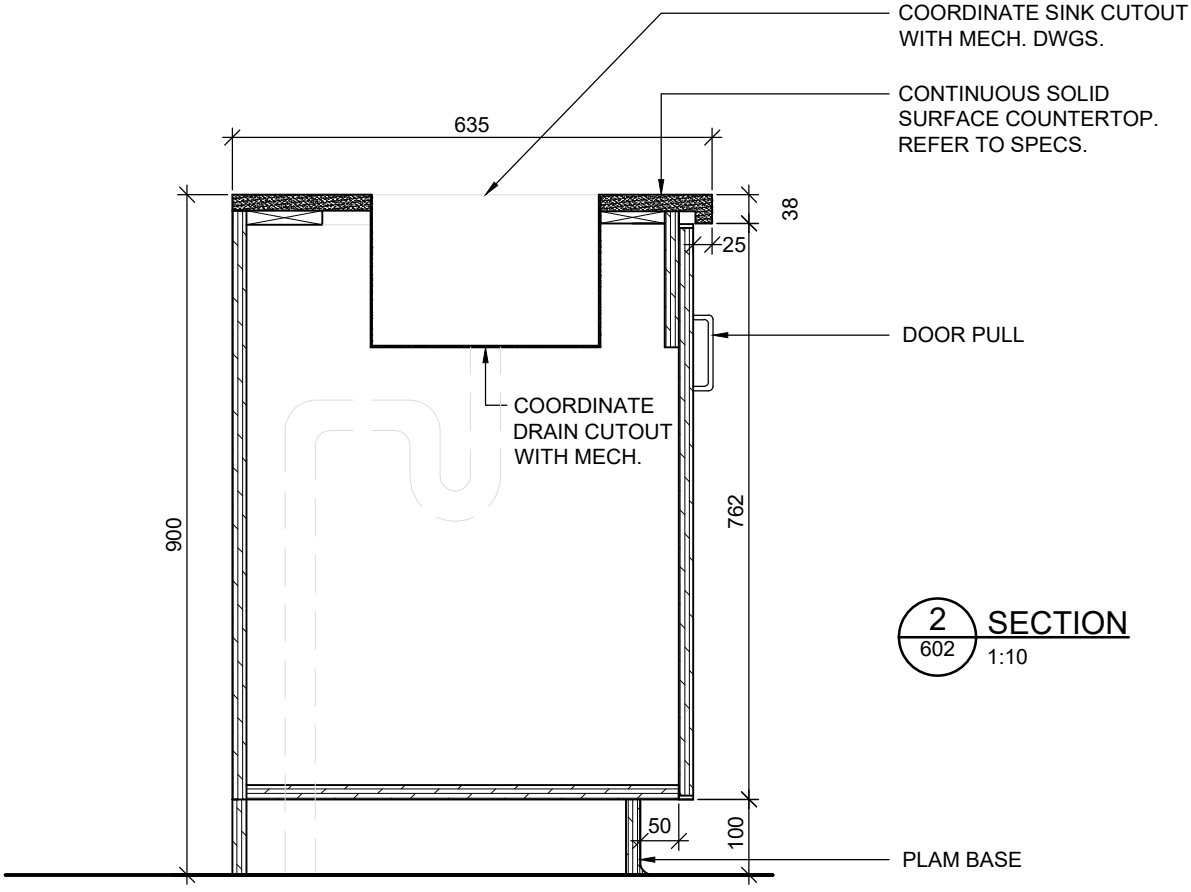
HOSSACK & ASSOCIATES ARCHITECTS

ISSUE/REV. 00

AD 601



1/602 ELEVATION
1:10



2/602 SECTION
1:10

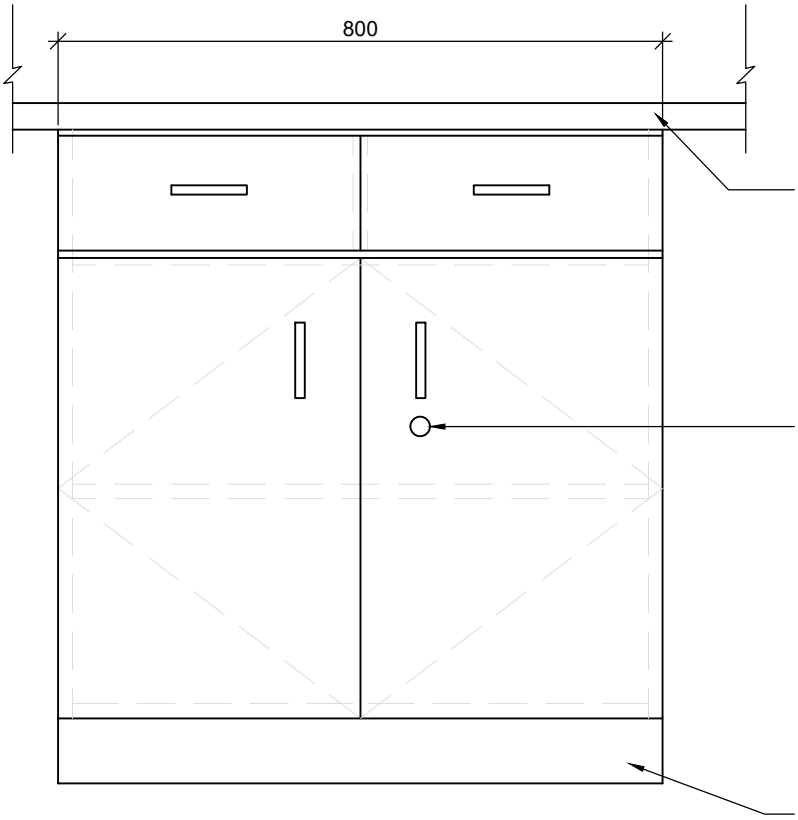
BASE CABINET WITH SINK TYPE B2

PROJ:	23116
SCALE:	1:10
DRAWN:	BCM
DATE:	22 10 28

HOSSACK & ASSOCIATES ARCHITECTS

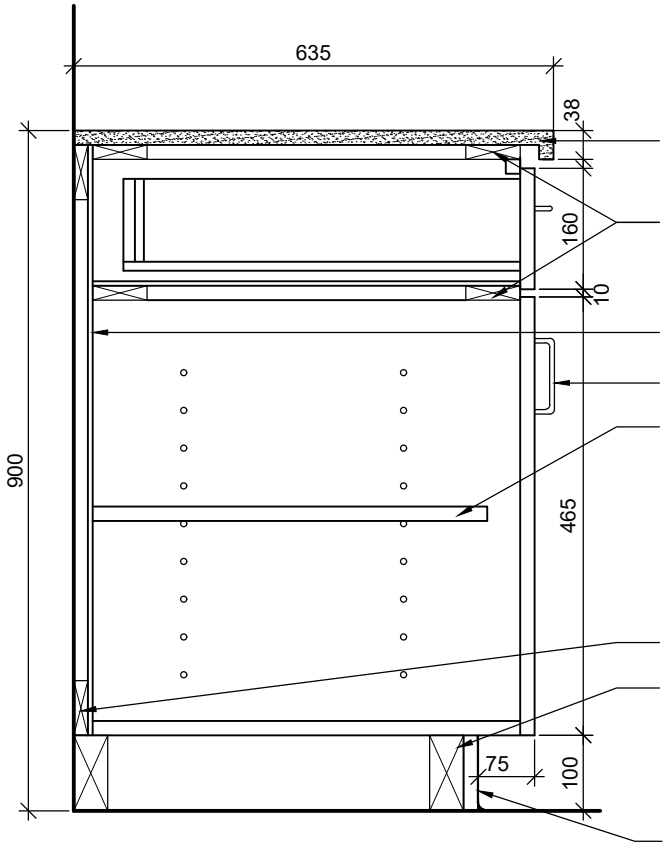
ISSUE/REV. 00

AD 602



NOTE:
ALL MILLWORK DOORS AND DRAWERS TO BE EQUIPPED WITH LOCKS UNLESS OTHERWISE NOTED.

ELEVATION
SCALE 1 : 10



SECTION
SCALE 1: 10

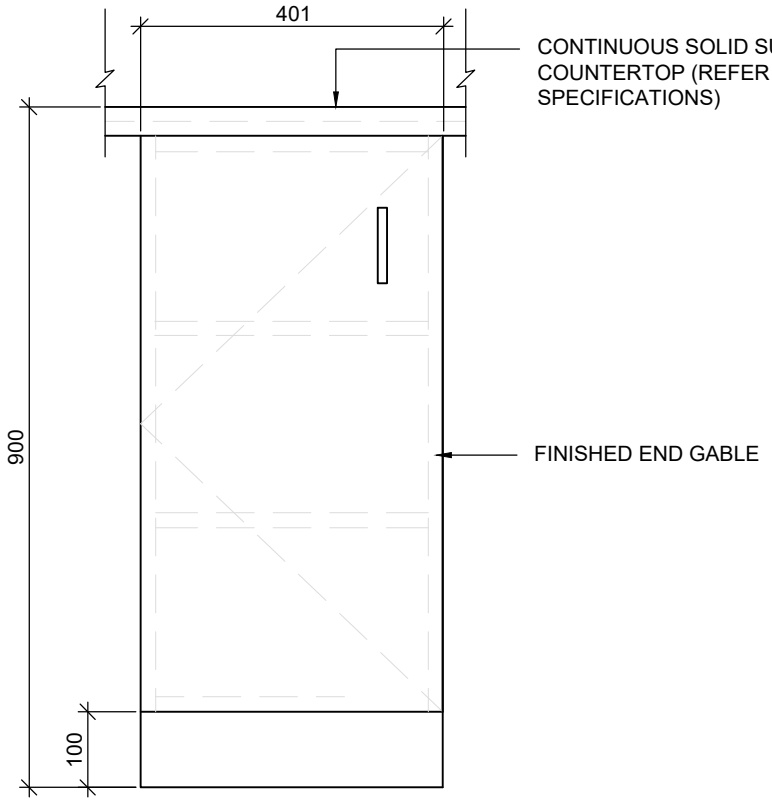
TYPE B3 - LOWER CABINET WITH DRAWERS

PROJ:	23116
SCALE:	1:10
DRAWN:	BCM
DATE:	22 10 28

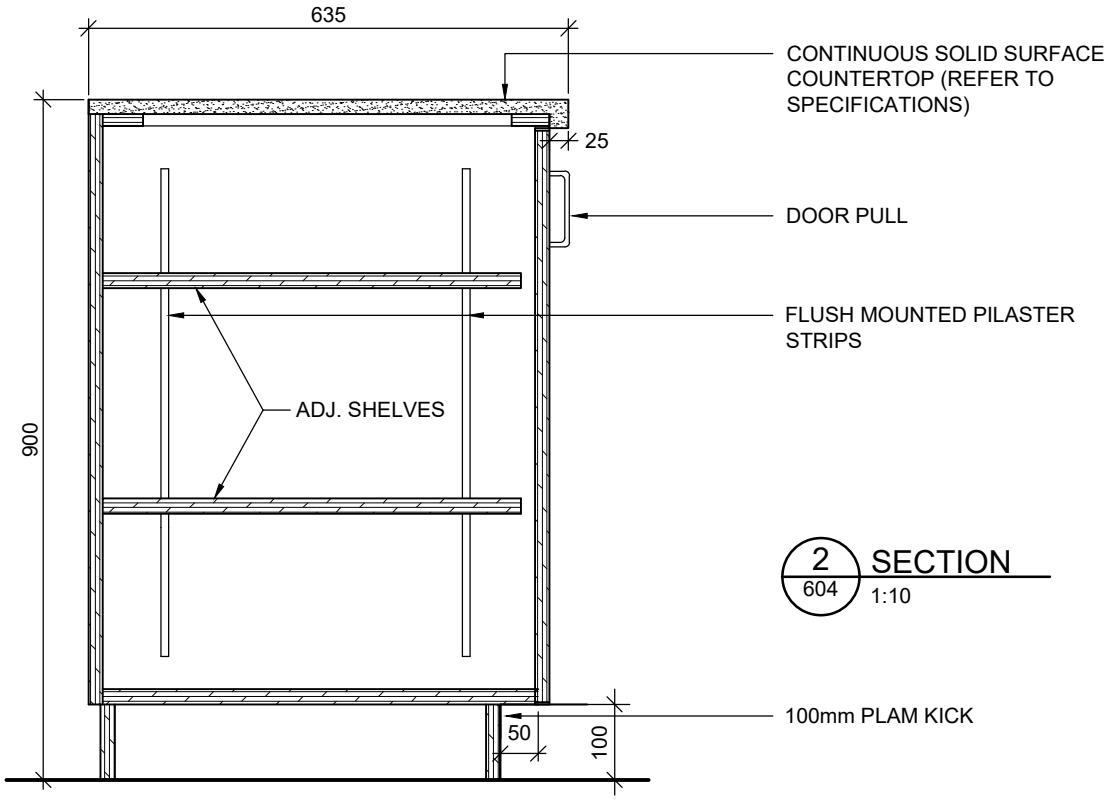
HOSSACK & ASSOCIATES ARCHITECTS

ISSUE/REV. 00

AD 603



1/604 ELEVATION
1:10



2/604 SECTION
1:10

BASE CABINET TYPE B4

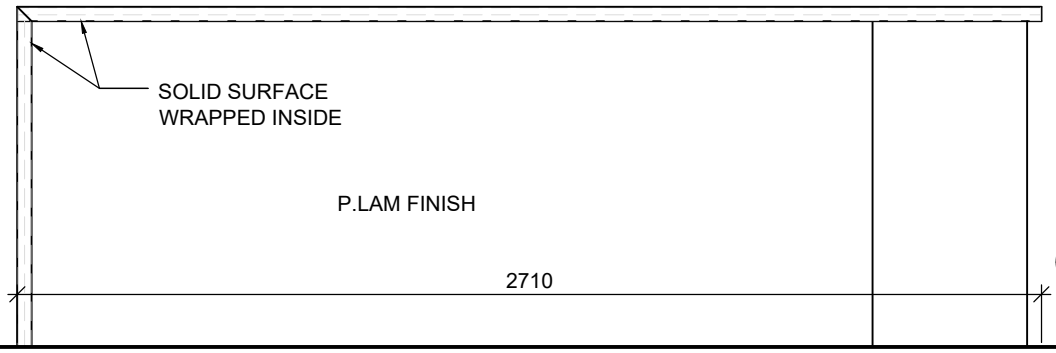
PROJ:	23116
SCALE:	1:10
DRAWN:	KB
DATE:	22 11 01

HOSSACK & ASSOCIATES ARCHITECTS

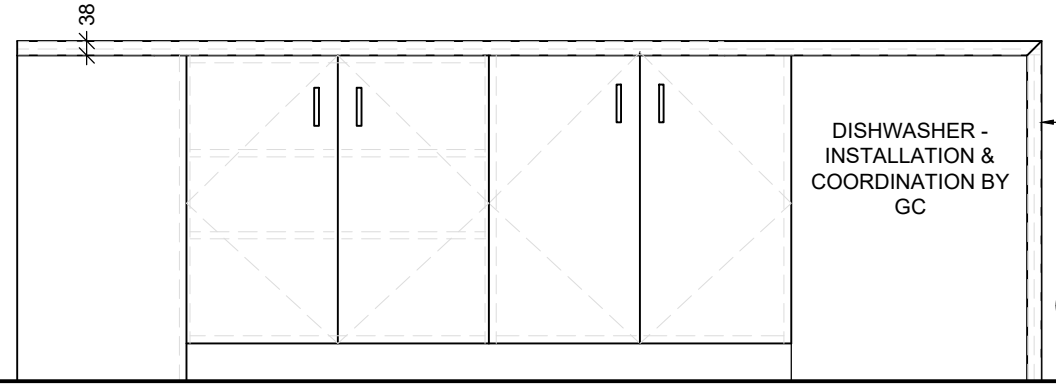
ISSUE/REV. 00

AD 604

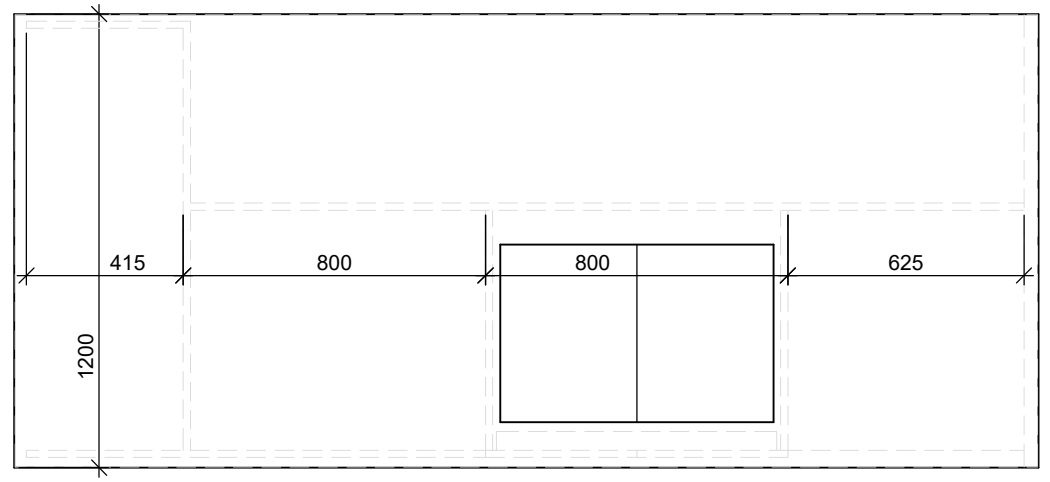
REFER TO AD 610, 611, 612 FOR DETAILS



1 / 609 BACK ELEVATION
1:20



2 / 609 FRONT ELEVATION
1:20



3 / 609 TOP VIEW
1:20

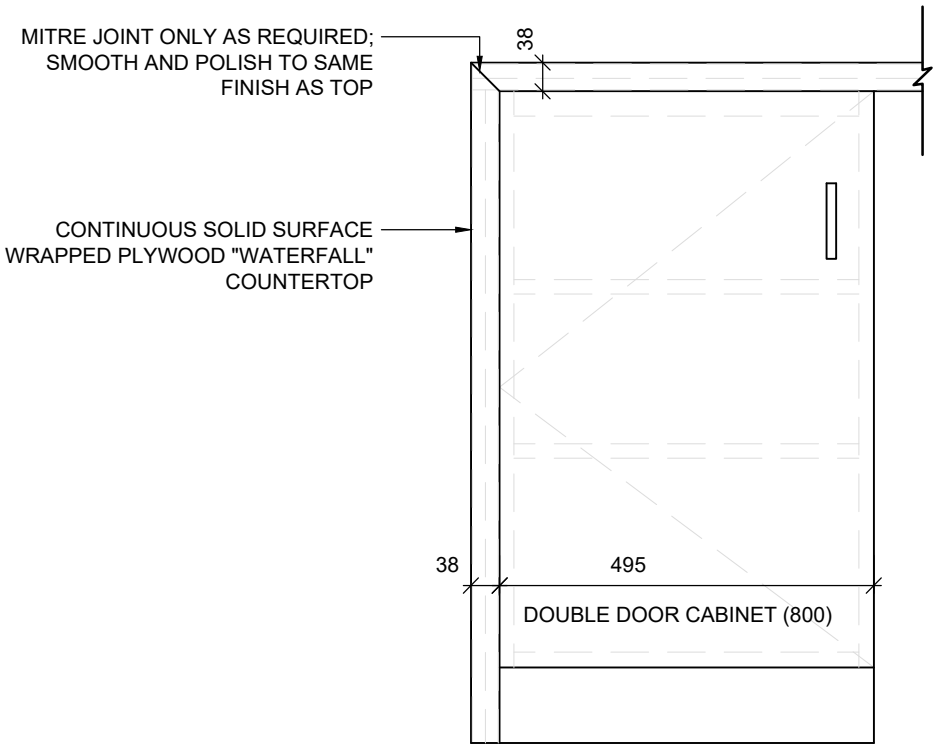
FIRE STATION: KITCHEN ISLAND TYPE B9

PROJ:	23116
SCALE:	NTS
DRAWN:	BCM
DATE:	22 10 28

HOSSACK & ASSOCIATES ARCHITECTS

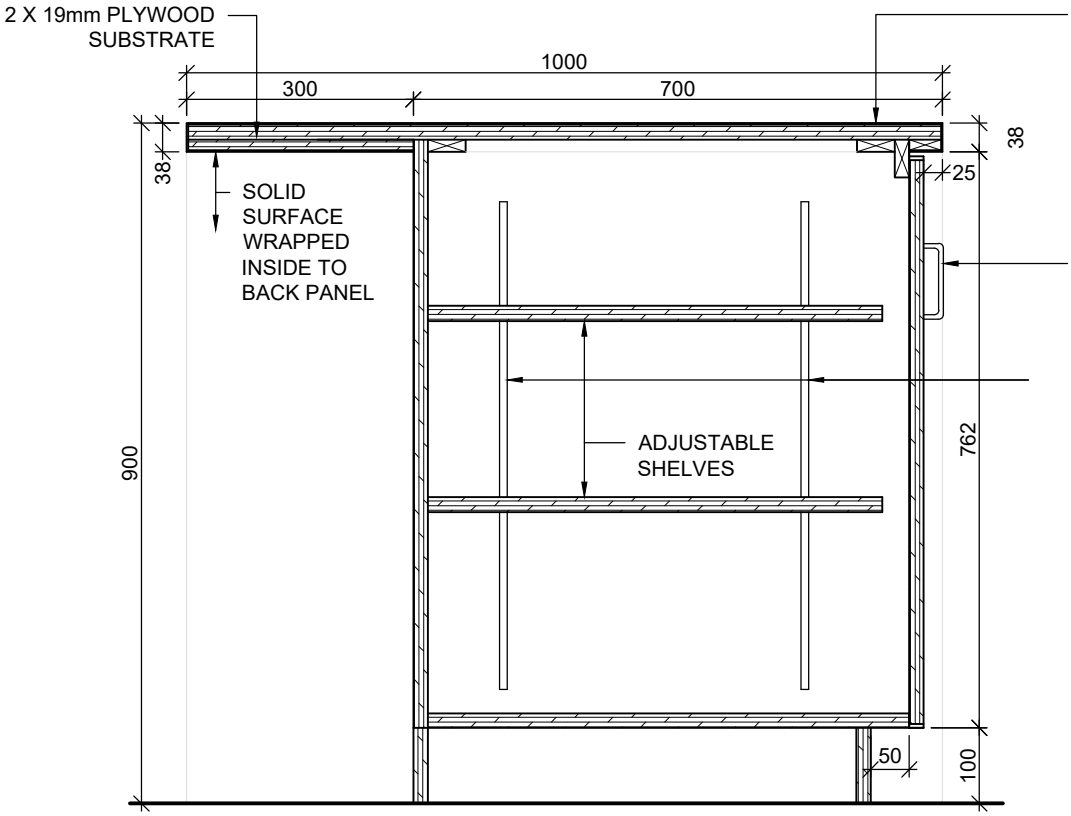
ISSUE/REV. 00

AD 609



1 / 610 ELEVATION
1:10

NOTE:
FIRE STATION MILLWORK TO BE OF P.LAM FACED 19mm PLYWOOD.



2 / 610 SECTION
1:10

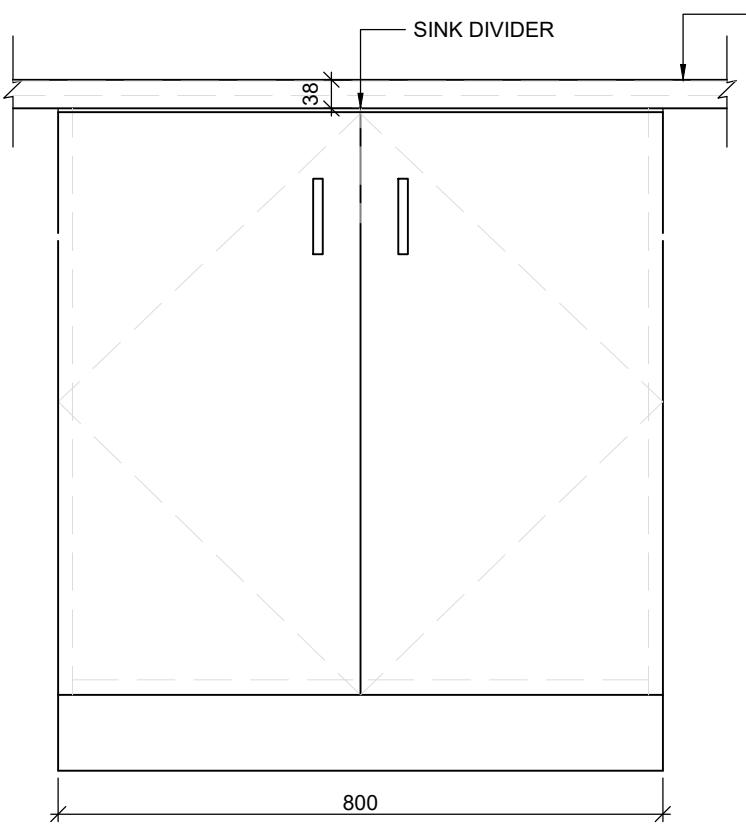
FIRE STATION: KITCHEN ISLAND TYPE B9

PROJ:	23116
SCALE:	1:10
DRAWN:	LH

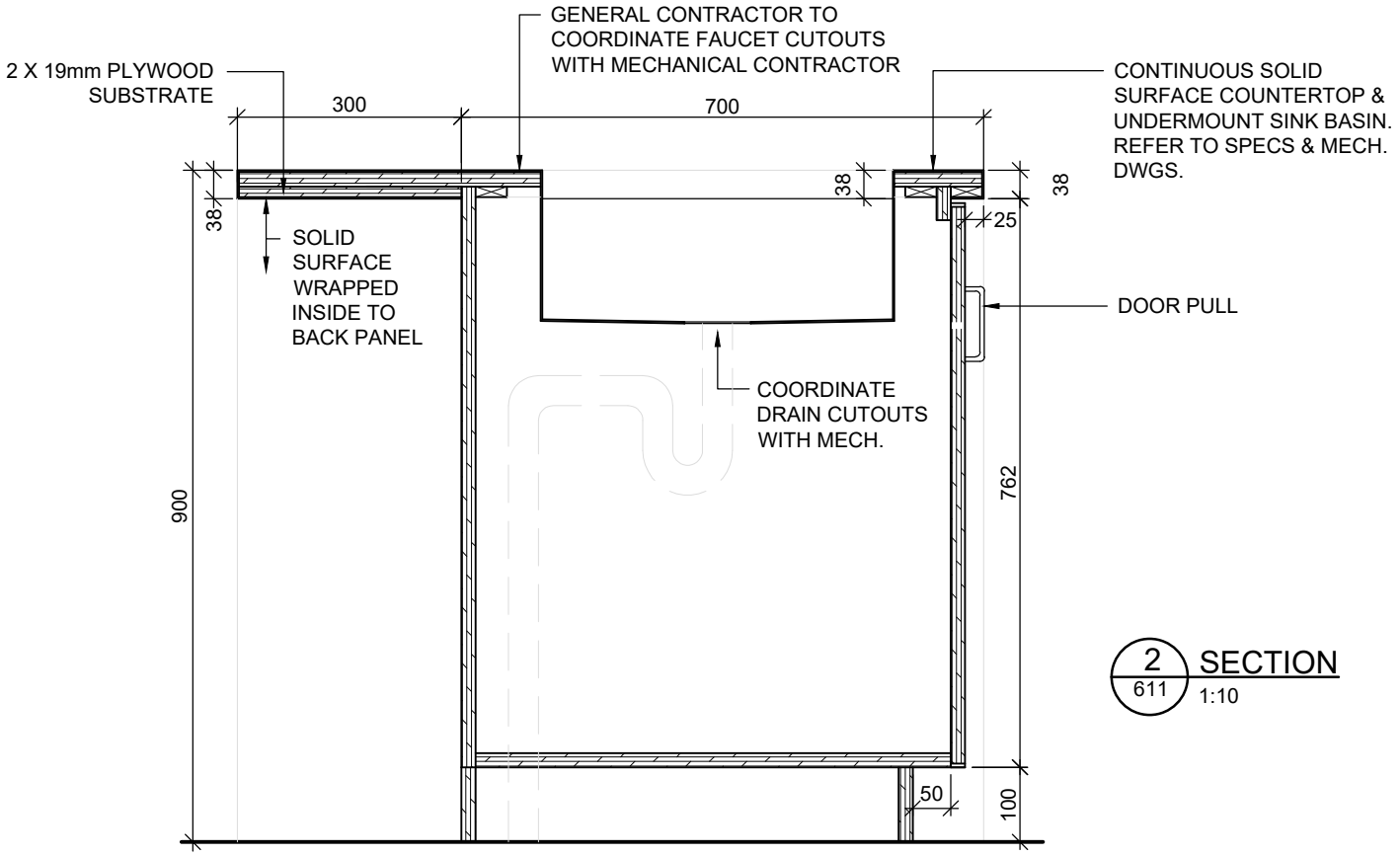
HOSSACK & ASSOCIATES ARCHITECTS

ISSUE/REV. 00

AD 610



1/611 ELEVATION
1:10



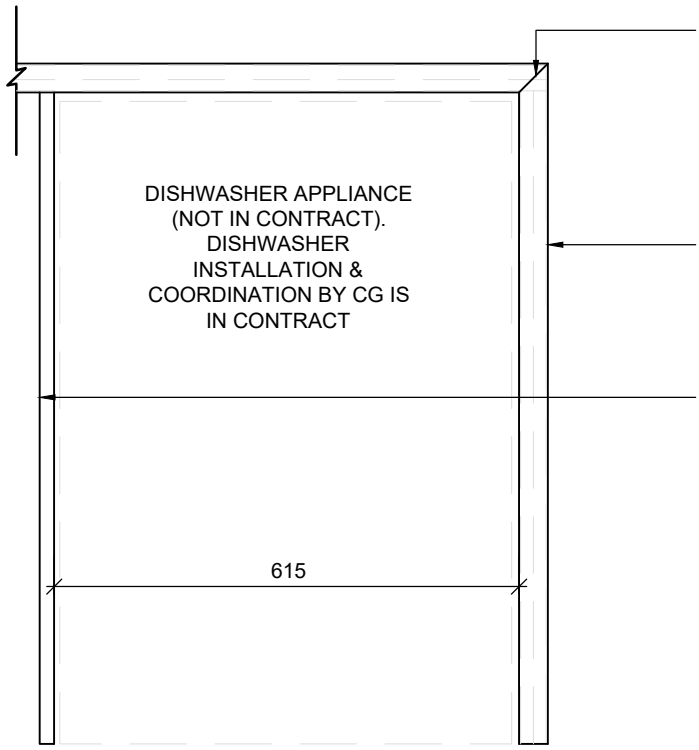
2/611 SECTION
1:10

FIRE STATION: KITCHEN ISLAND TYPE B9	PROJ: 23116
	SCALE: 1:10
	DRAWN: LH
	DATE: 14 04 15

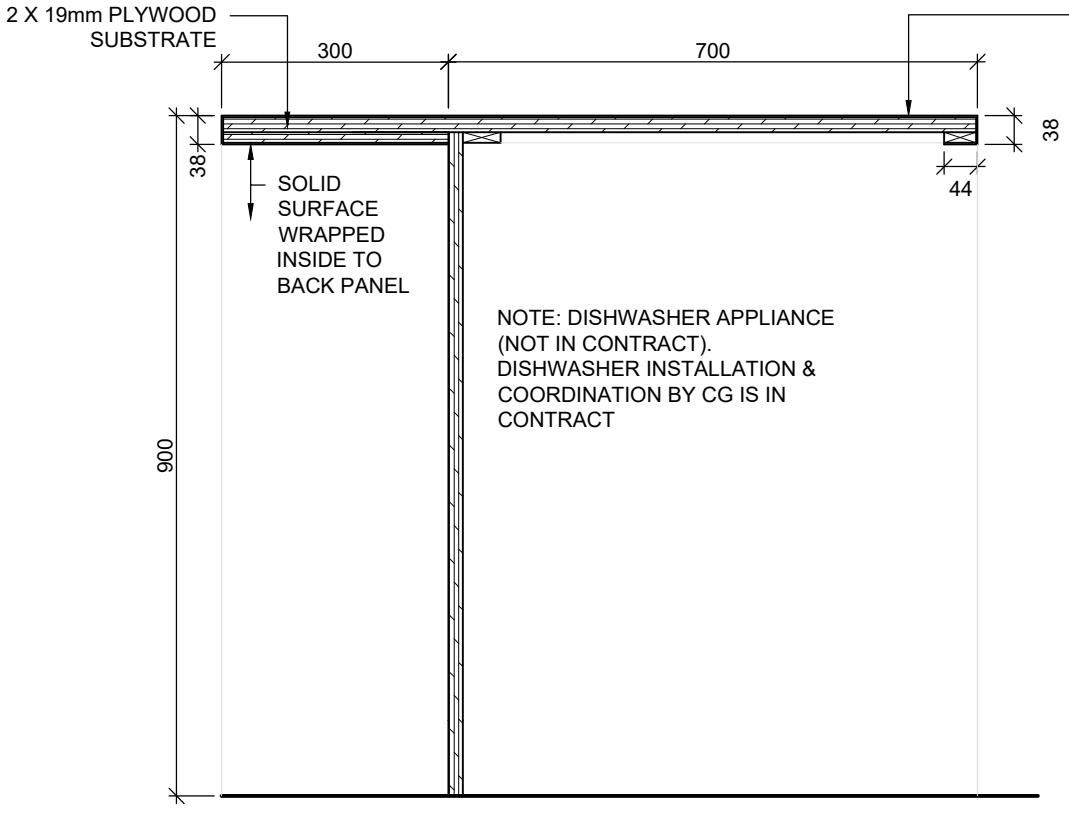
HOSSACK & ASSOCIATES ARCHITECTS

ISSUE/REV. 00

AD 611



1/612 ELEVATION
1:10



2/612 SECTION
1:10

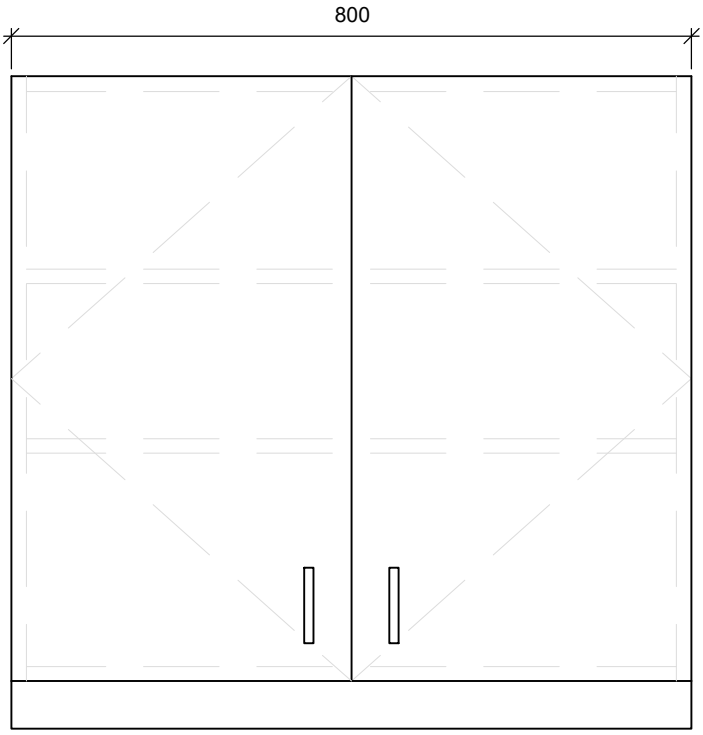
FIRE STATION: KITCHEN ISLAND TYPE B9

PROJ:	23116
SCALE:	1:10
DRAWN:	LH
DATE:	14 04 15

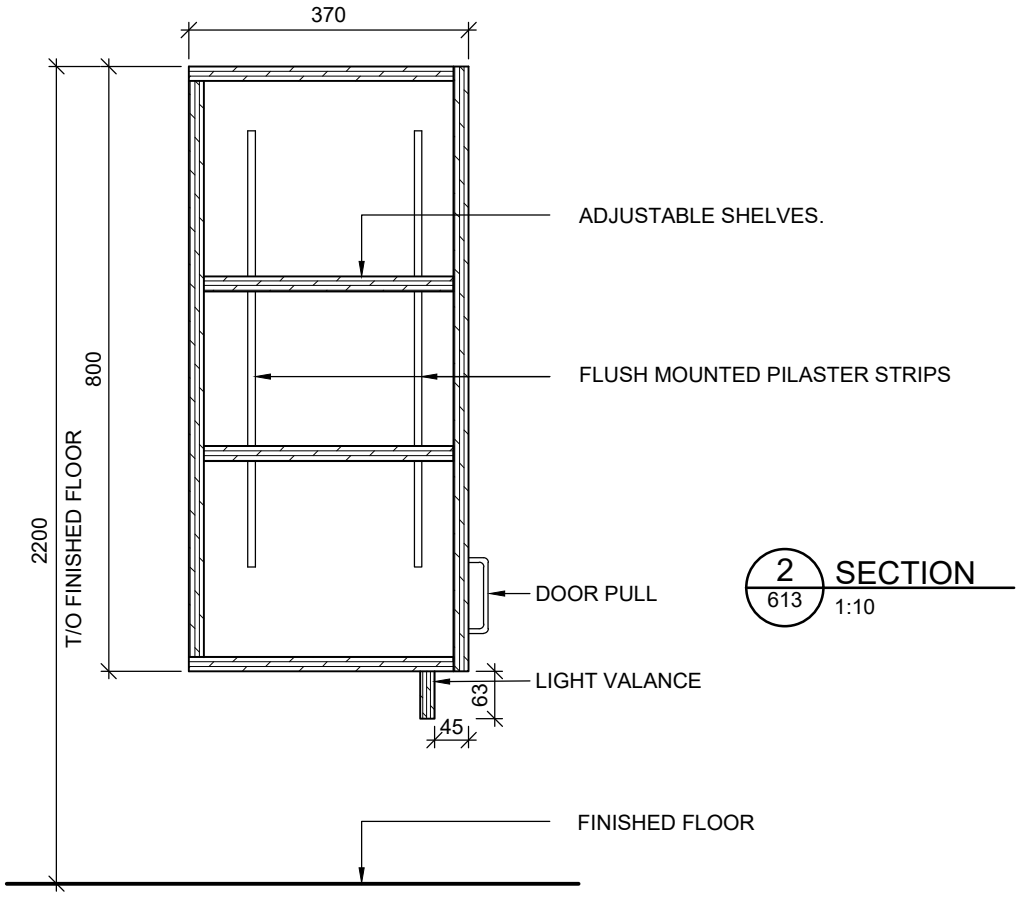
HOSSACK & ASSOCIATES ARCHITECTS

ISSUE/REV. 00

AD 612



1 / 613 ELEVATION
1:10



2 / 613 SECTION
1:10

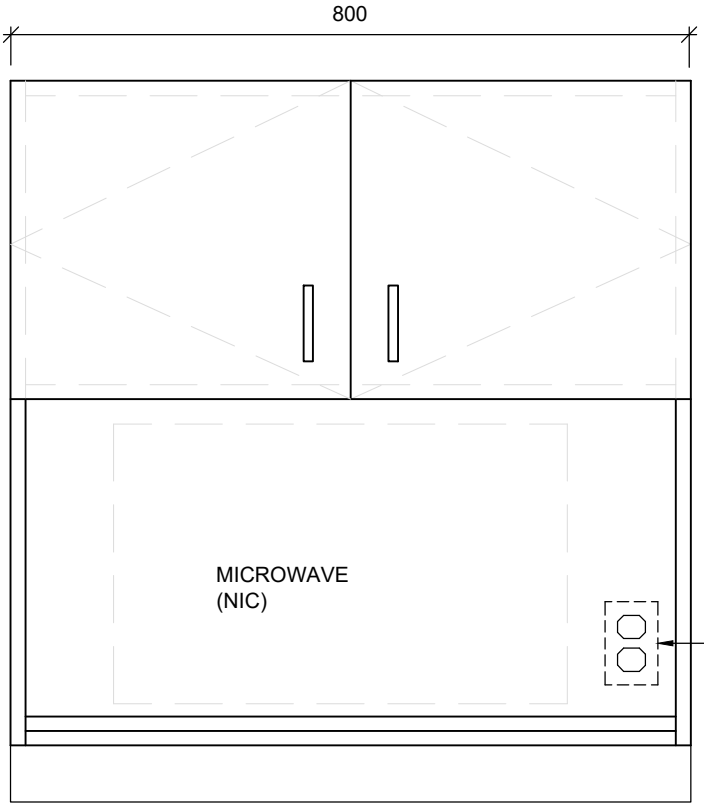
CABINET TYPE U1

PROJ:	23116
SCALE:	1:10
DRAWN:	BCM
DATE:	22 10 28

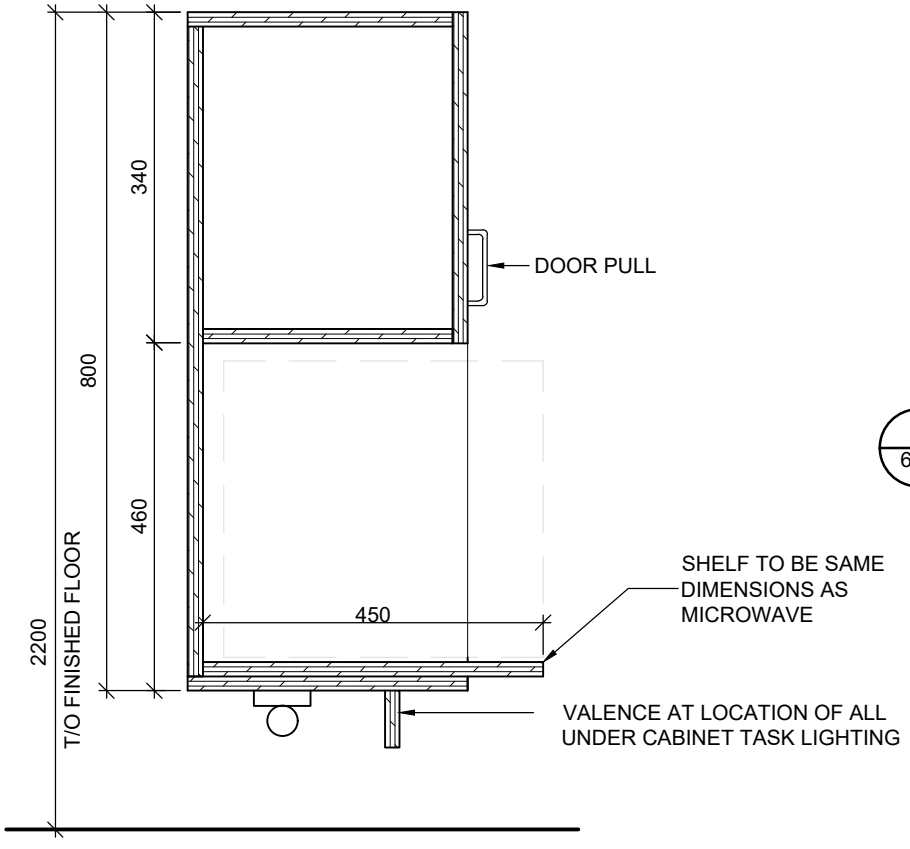
HOSSACK & ASSOCIATES ARCHITECTS

ISSUE/REV. 00

AD 613



1 / 614 ELEVATION
N.T.S.



2 / 614 SECTION
N.T.S.

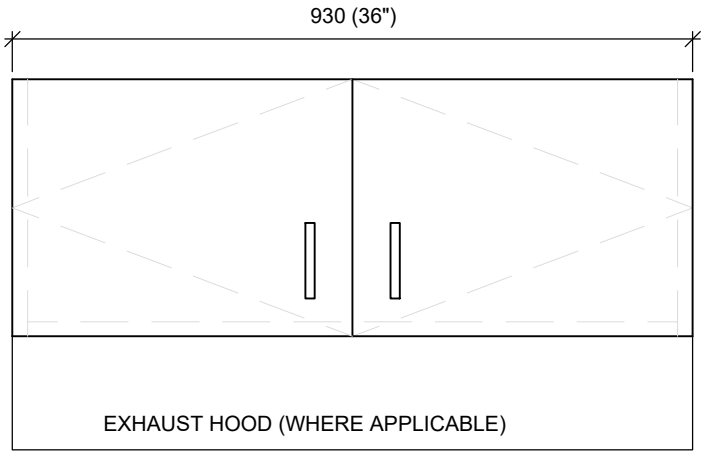
CABINET TYPE U2

PROJ:	23116
SCALE:	1:10
DRAWN:	BCM
DATE:	22 10 28

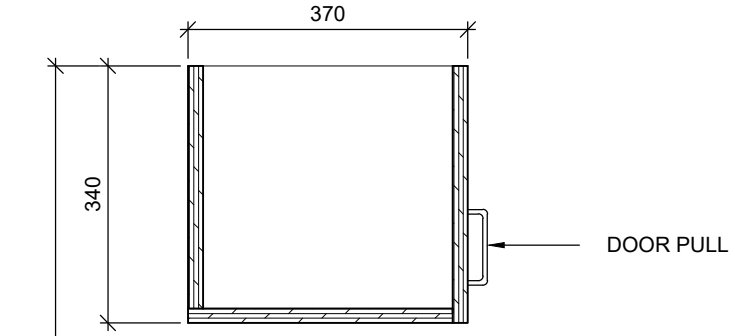
HOSSACK & ASSOCIATES ARCHITECTS

ISSUE/REV. 00

AD 614



1/615 ELEVATION
1:10



NOTE:
NO TOP ON THIS CABINET DUE TO RECIRCULATING VENT HOOD.

2/615 SECTION
1:10

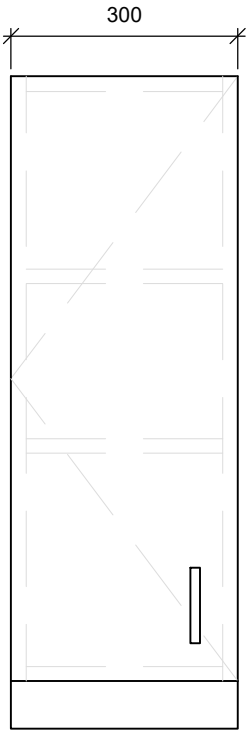
CABINET TYPE U3

PROJ:	23116
SCALE:	1:10
DRAWN:	BCM
DATE:	22 10 28

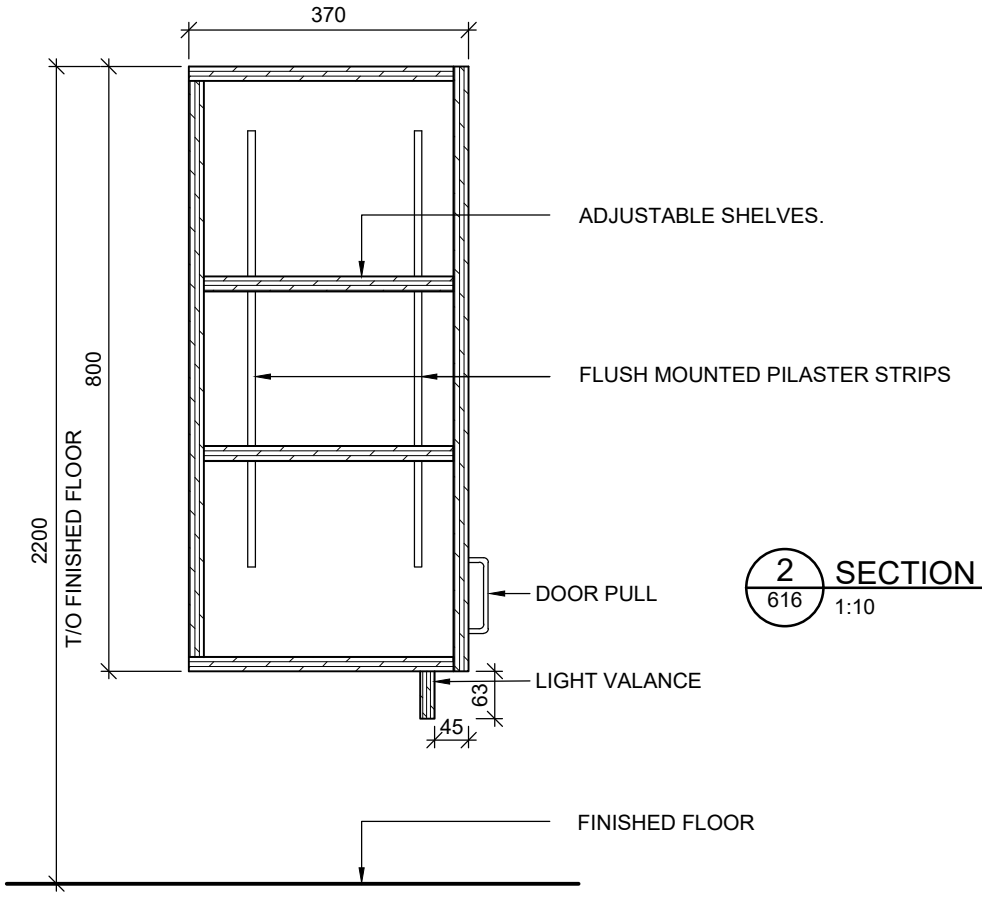
HOSSACK & ASSOCIATES ARCHITECTS

ISSUE/REV. 00

AD 615



1/616 ELEVATION
1:10



2/616 SECTION
1:10

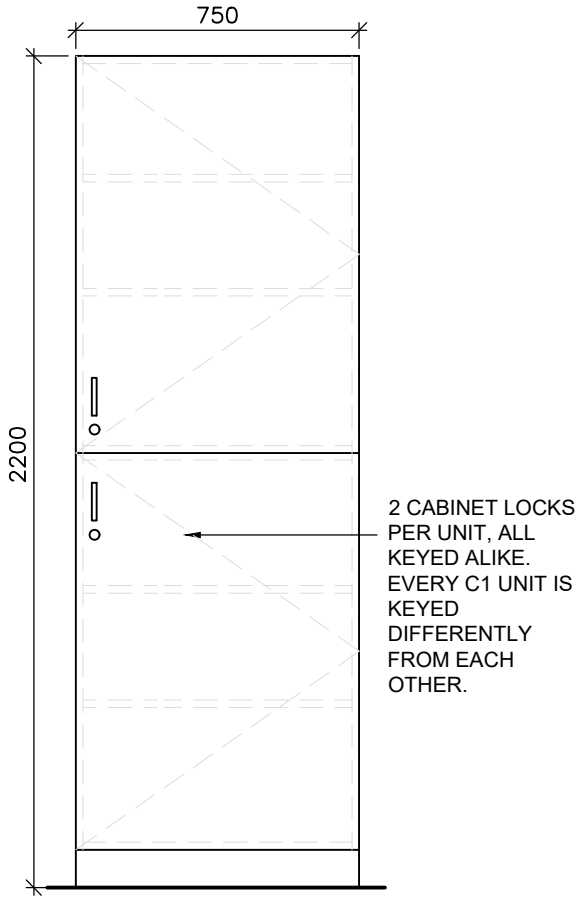
CABINET TYPE U4

PROJ:	23116
SCALE:	1:10
DRAWN:	BCM
DATE:	22 11 01

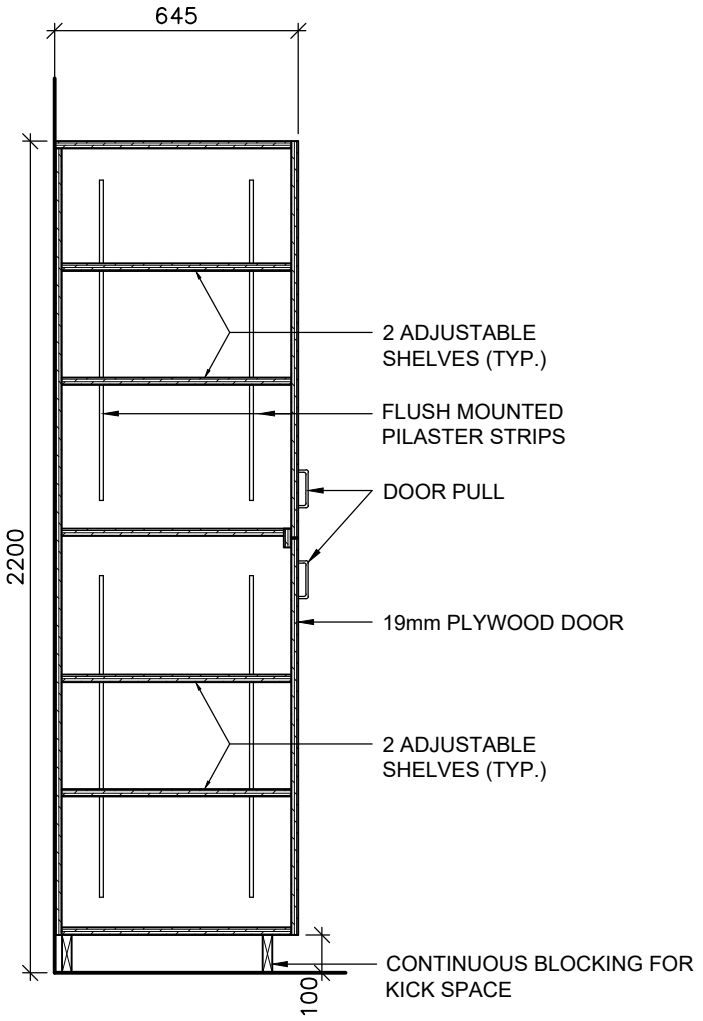
HOSSACK & ASSOCIATES ARCHITECTS

ISSUE/REV. 00

AD 616



1/618 ELEVATION
1:20



2/618 SECTION
1:20

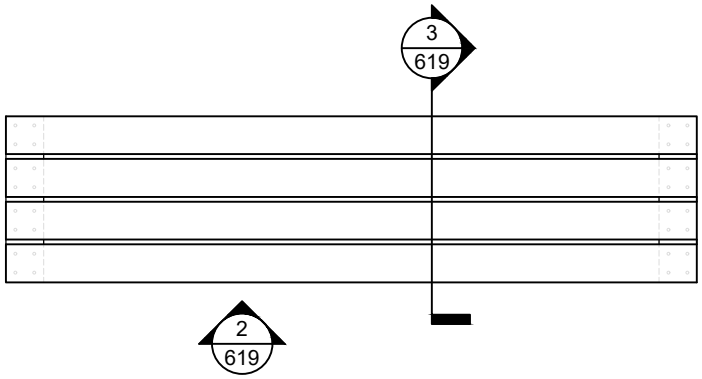
CABINET TYPE C1

PROJ:	23116
SCALE:	NOTED
DRAWN:	BCM
DATE:	22 10 28

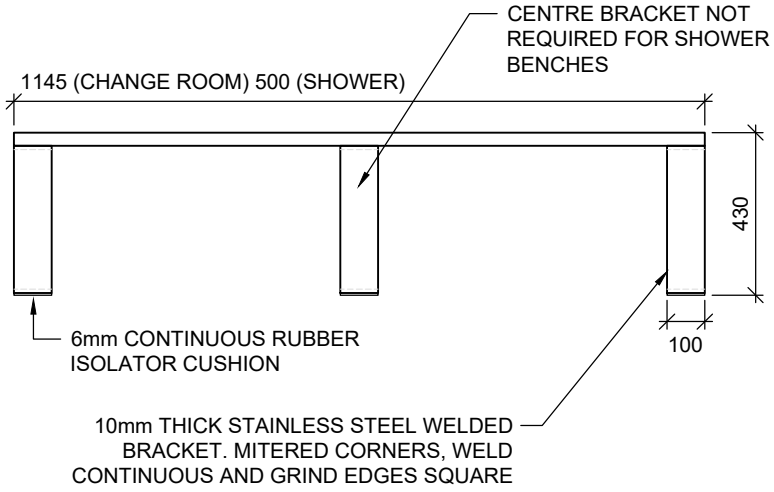
HOSSACK & ASSOCIATES ARCHITECTS

ISSUE/REV. 00

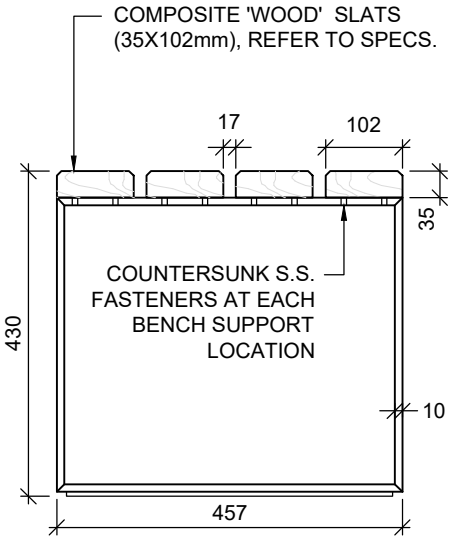
AD 618



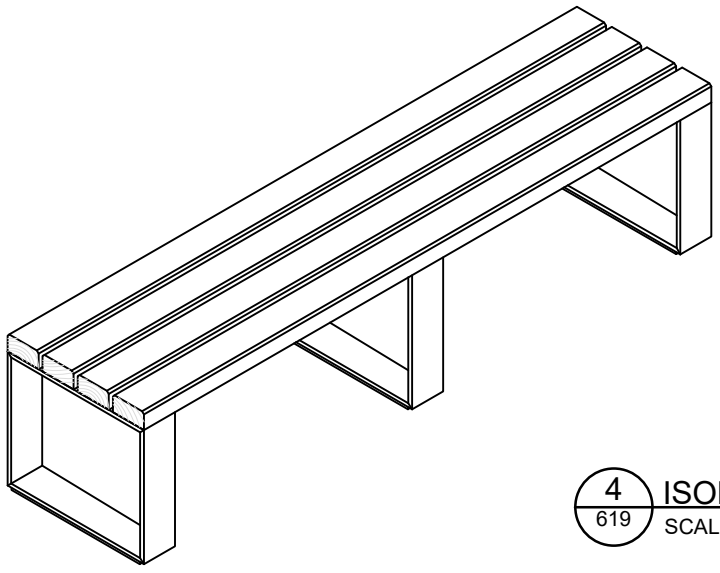
1 619 PLAN
SCALE 1:20



2 619 ELEVATION
SCALE 1:20

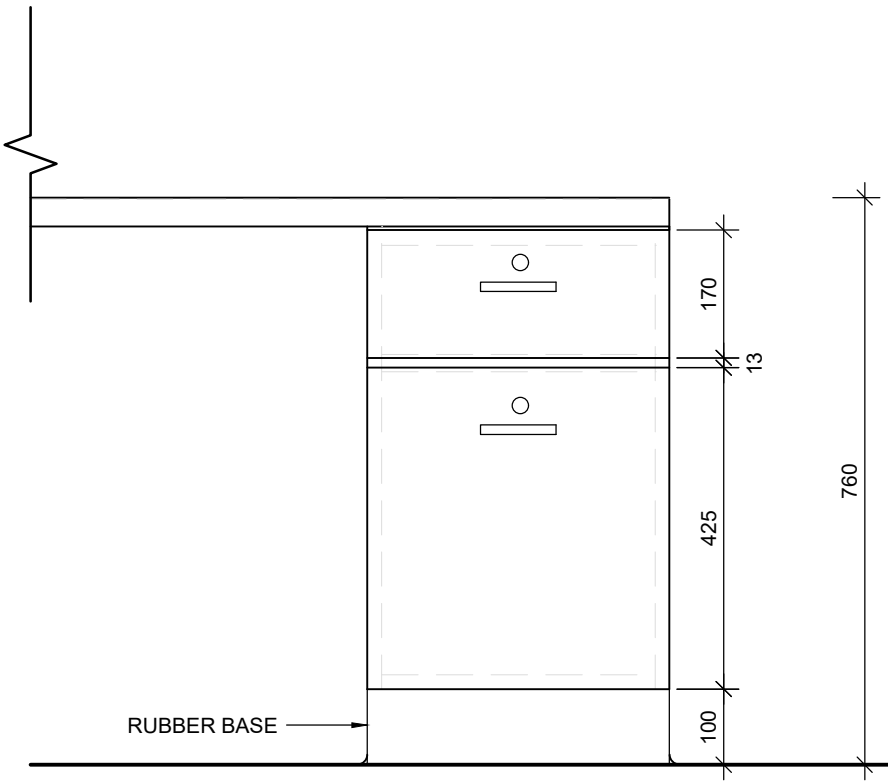


3 619 SECTION
SCALE 1:10

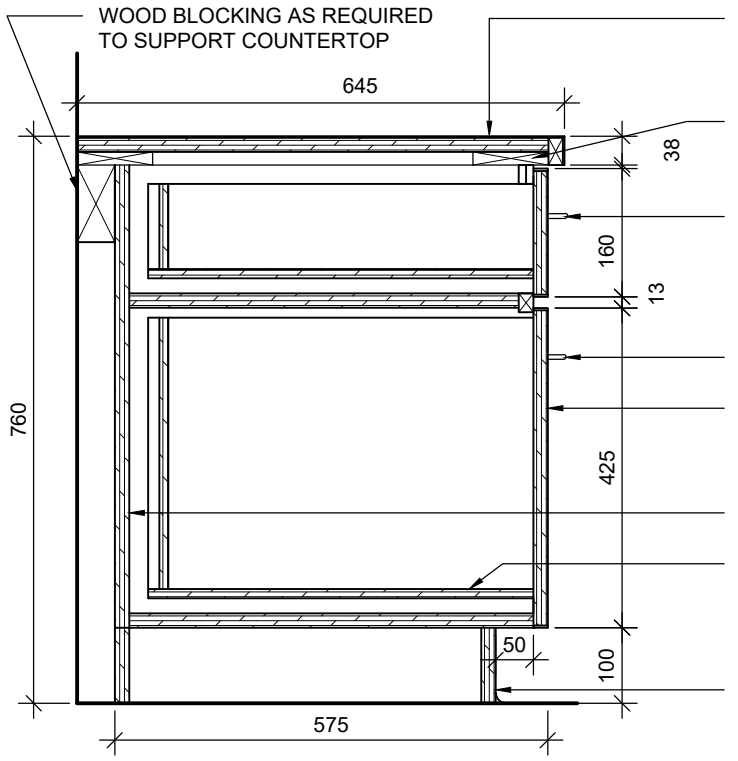


4 619 ISOMETRIC
SCALE: NTS

FIRE STATION: LOCKER ROOM & SHOWER BENCH	PROJ: 23116 SCALE: NOTED DRAWN: BCM DATE: 22 10 28	HOSSACK & ASSOCIATES ARCHITECTS	ISSUE/REV. 00 AD 619



1/619 ELEVATION
1:10



CONTINUOUS SOLID SURFACE COUNTERTOP ON 19 mm PLYWOOD SUB BASE. REFER TO SPECS.

STRETCHER RAIL AT FRONT AND BACK

DRAWER PULL & LOCK

DRAWER PULL & LOCK

P.LAM FACED 19mm PLYWOOD DRAWER FRONTS & CASINGS

19mm PLYWOOD BACKING

13mm PLYWOOD DRAWER CONSTRUCTION COMPLETE WITH FULL BALL BEARING EXTENSION GLIDES. PROVIDE WHITE P.LAM FINISH ON INSIDE OF ALL DRAWERS.

RUBBER BASE

2/619 SECTION
1:10

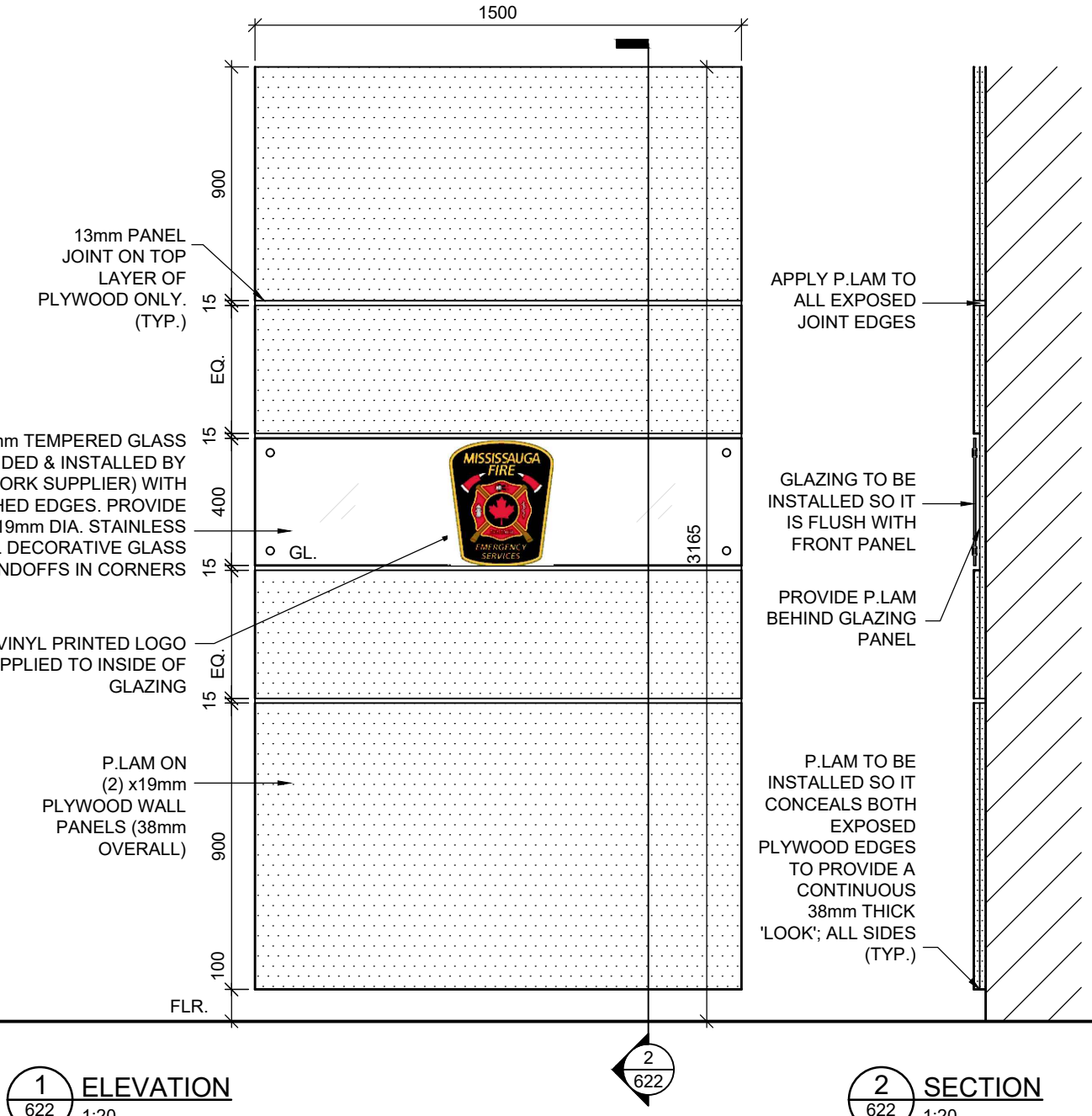
DESK & DRAWER UNIT TYPE D1

PROJ:	23116
SCALE:	NOTED
DRAWN:	BCM
DATE:	22 10 28

HOSSACK & ASSOCIATES ARCHITECTS

ISSUE/REV. 00

AD 620



1 / 622 ELEVATION
1:20

2 / 622 SECTION
1:20

NOTE:
ALL PANELS THROUGHOUT FIRE STATION TO BE INSTALLED WITH NO VISIBLE FASTENERS (KITCHEN, DAYROOM, CORRIDOR, ETC.)

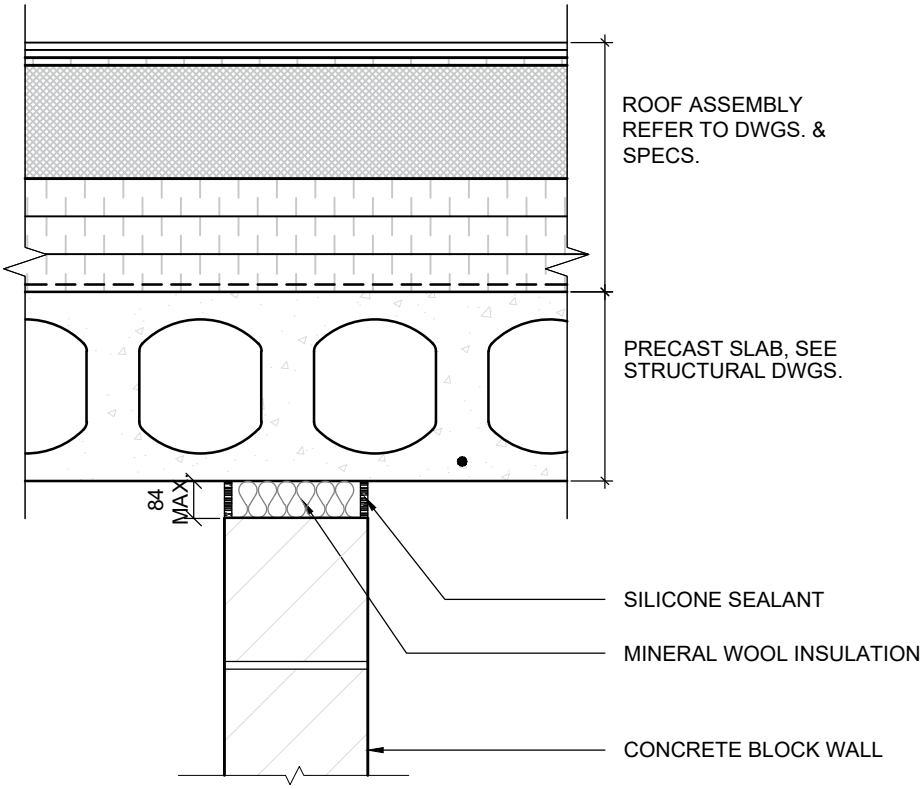
FIRE STATION: CORRIDOR MILLWORK DISPLAY

PROJ:	23116
SCALE:	NOTED
DRAWN:	BM
DATE:	14 04 15

HOSSACK & ASSOCIATES ARCHITECTS

ISSUE/REV. 00

AD 622



TOP OF WALL FIRE SEPARATION ASSEMBLY

PROJ:	23116
SCALE:	1:10
DRAWN:	KB
DATE:	22 08 17

HOSSACK & ASSOCIATES ARCHITECTS

ISSUE/REV. 00

AD 725

Part 1 General

1.1 GEOTECHNICAL INVESTIGATION & RELATED REPORTS

.1 A copy of the Geotechnical Investigations and related reports of the site is enclosed in Specification Binder C.

.2 **CAUTIONARY NOTE:** the following investigations were completed:

PROJECT NAME: **Geotechnical Investigation and Design Report Final Rev1**
Prepared by: GHD
2524 Cawthra Road, Mississauga, ON
Date: March 20, 2024

PROJECT NAME: **Risk Evaluation**
Prepared by: GHD
2524 Cawthra Road, Mississauga, ON
Date: March 5, 2024

PROJECT NAME: **Supplementary Environmental Investigation**
Prepared by: GHD
2524 Cawthra Road, Mississauga, ON
Date: December 5, 2023

PROJECT NAME: **Phase One Environmental Site Assessment**
Prepared by: GHD
2524 Cawthra Road, Mississauga, ON
Date: November 15, 2022 (prior to building demolition & site clean-up)

PROJECT NAME: **Phase Two Environmental Site Assessment**
Prepared by: GHD
2524 Cawthra Road, Mississauga, ON
Date: November 15, 2022 (prior to building demolition & site clean-up)

1.2 DISCLAIMER

.1 The above noted reports and letters are not part of the Contract Documents prepared by the Architect or their sub consultants. It is bound into the Specifications set for convenient reference only. These reports were not prepared by or under the supervision of the Architect. While every effort has been made to attempt to provide comprehensive geotechnical information for the purposes of design and tendering, the Architect claims no responsibility for the accuracy of the information contained in the report.

.2 Refer to Section 00 21 13 – 'Instruction to Bidders', article 1.24-Examination of the Site.

Part 2 Products

2.1 NOT USED

.1 Not used.

Part 3 Execution

3.1 NOT USED

.1 Not used.

END OF SECTION

Geotechnical Investigation and Design Report - Final Rev1

2524 Cawthra Road, Mississauga, Ontario

City of Mississauga

20 March 2024

→ **The Power of Commitment**

Contents

Table index

Figure Index

Appendices

1. Introduction

The City of Mississauga Ontario (the City) retained GHD Limited (GHD) to provide due diligence engineering consulting services to support the City's planned property transaction and proposed redevelopment for a property in Mississauga, Ontario. The property under study is located at 2524 Cawthra Road, in the East side of the Mississauga Valley within the City of Mississauga, Ontario (herein referred to as Site or Property). The property is currently being used for automotive repair and the City is planning a redevelopment of the property as a fire station. The City is in the process of entering into an Agreement to Purchase and Sale (APS) with the current property owner.

To support the proposed property transaction, Phase One Environmental Site Assessment (ESA), Phase Two ESA and Preliminary Geotechnical Investigation were requested by the City. This report presents the findings of the preliminary geotechnical investigation carried out at the property. A site plan showing the borehole and groundwater monitoring well locations is presented on **Figure 1**.

The purpose of this preliminary geotechnical investigation was to obtain information on the subsurface soil, rock, and groundwater conditions within the property by means of a limited number of boreholes and based on our interpretation of the data, to provide engineering recommendations on the geotechnical aspects of preliminary design of the project.

The investigation and reporting were carried out in general accordance with the scope of work provided in our proposal dated April 20, 2022, and as outlined in an email from the City dated April 13, 2022.

The factual data, interpretations and preliminary recommendations contained in this report pertain to a specific project as described in the report and are not applicable to any other project or site location. This report should be read in conjunction with the Statement of Limitations appended to this report. The reader's attention is specifically drawn to this information, as it is essential for the proper use and interpretation of this report. This report should be read in conjunction with the 2024 Risk Evaluation Letter prepared by GHD, dated March 5, 2024.

2. Investigation Procedures

Prior to commencing the field investigation, project specific Health and Safety and Traffic Protection Plans were prepared. The borehole locations were marked in the field by GHD engineering staff, and the locations were cleared of public and private underground utility services. In the period of June 10th to June 14th, 2022, eighteen (18) boreholes were advanced under the full-time supervision of GHD staff for the proposed site investigation. The boreholes were advanced at the locations shown on the Borehole Location Plan (see **Figure 1**). A summary of the borehole location coordinates, ground surface elevations and termination elevations is given in Table 1.

Table 1 Borehole Locations and Depths

Borehole ID	Easting (m)	Northing (m)	Ground Surface Elevation (mASL)	Termination Depth (mbgs)
BH1-22	613032.105	4827494.690	117.48	3.9**
BH2-22	613060.783	4827464.556	117.07*	3.9**
BH3-22	613039.956	4827496.152	117.58	3.9**
BH4-22	613049.426	4827491.634	117.65	3.8**
BH5-22	613047.551	4827507.476	117.63	2.5
BH6-22	613060.235	4827498.030	117.64*	2.7
BH7-22	613061.029	4827518.152	117.67	3.9**
BH8-22	613069.880	4827510.360	117.65	3.9**

Borehole ID	Easting (m)	Northing (m)	Ground Surface Elevation (mASL)	Termination Depth (mbgs)
BH9-22	613079.647	4827506.315	117.58	3.9**
BH10-22	613081.235	4827539.002	117.72	3.1**
BH11-22	613095.891	4827529.907	117.69	4.7**
BH12-22	613097.265	4827561.813	117.89	3.2**
BH13-22	613108.077	4827548.397	117.74	3.2**
BH14-22	613110.478	4827580.487	118.14	3.3^^
MW1-22	613043.371	4827482.812	117.49	4.1**
MW2-22	613070.485	4827476.477	117.13	4.1**
MW3-22	613069.095	4827490.955	117.63	3.1**
MW4-22	613126.735	4827566.176	117.96	5.4**

*Note: *Ground surface elevations at these boreholes were not surveyed due to site obstructions. These elevations have been interpolated based on nearby borehole ground surface elevations.*

*Note: **Borehole terminated upon auger refusal within weathered bedrock.*

Note: ^^Borehole terminated upon auger refusal on presumed bedrock.

Boreholes were advanced using track-mounted drilling rigs supplied and operated by Profile Drilling and Tri-Phase Drilling under the full-time supervision of GHD technical representative. The boreholes were advanced using continuous flight solid stem augers and hollow stem augers. Representative, disturbed soil samples were obtained at 0.75 m intervals of depth, using a 50 mm outer-diameter (O.D.) split-spoon sampler advanced by a 63.5 kg automatic hammer dropping approximately 760 mm in accordance with Standard Penetration Test (SPT) procedures described in ASTM D1586-11. A detailed record of each borehole is presented in **Appendix A**. Groundwater conditions were noted during and upon completion of drilling at each borehole.

Soil samples obtained from the boreholes were inspected in the field immediately upon retrieval for type, texture, and colour. All retrieved samples were sealed in clean plastic bags and transported to the GHD laboratory in Mississauga for further visual examination and laboratory testing. Selected samples underwent classification testing (including grain size distribution, Atterberg limits and moisture contents).

The as-drilled borehole locations were obtained using a handheld GPS equipment. The horizontal coordinates obtained are in UTM Zone 17 with NAD 83 Datum (Original) Northing and Easting. Ground surface elevations at borehole locations were obtained relative to a temporary site benchmark (light pole no. #C19696). Based on the survey drawings obtained from the client in an email dated March 14, 2024, the geodetic elevation of this temporary benchmark was provided as 118.38 m above sea level (mASL). The ground surface elevations at the borehole locations were estimated based on the geodetic elevation of the temporary benchmark. Please note that these elevations are approximate and should not be relied upon for site grading design or construction purposes. The borehole locations, ground surface elevations, and drilled depth are presented in Table 1 above.

3. Site Geology and Subsurface Conditions

3.1 Regional Geology

The site is in the basin lows and nearshore flats associated with Glacial Lake Deposits according to Surficial Geology of the Greater Toronto and Oak Ridges Moraine Area, Southern Ontario (Sharpe et al., 1997). In this region, thin deposits of sand, silt and clay are found related to a series of lake levels from 280 m above sea level (masl) to 245-

260 masl (Algonquin), to 130 masl (Iroquois). Glacial Lake Iroquois and Algonquin re-worked sediments into gravelly beaches, baymouth bars, and spits, sand and gravel, or silt and clay. This site is situated in Glacial Lake Deposits with sand and silty sand layers expected at the top which occurs in basin lows and nearshore flats.

The Physiography of Southern Ontario Map (Chapman and Putnam, 2007) indicates that the site is located within Iroquois Plain physiographic region and consists of sand plains. Further, Surficial Geology of Southern Ontario (Ontario Geological Survey, 2010) shows that the site is located within Paleozoic bedrock knob surrounded by coarse textured glaciolacustrine deposits (sand and gravel, minor silt, and clay). Shale, limestone, dolostone, siltstone of Georgian Bay Formation is expected for the bedrock as per Bedrock Geology of Ontario Map (Ontario Geological Survey, 2011).

3.2 Subsurface Conditions

The detailed subsurface soil and groundwater conditions as encountered in the boreholes advanced during the geotechnical investigation and the results of the laboratory tests carried out on selected soil samples are presented on the borehole records provided in **Appendix A**. The results of the geotechnical laboratory testing are contained within **Appendix B**. The results of in-situ field tests (i.e., SPT “N” values), as presented on the borehole records in **Appendix A**.

The Notes on Borehole and Test Pit Reports are also included in **Appendix A** to assist in the interpretation of the borehole records. The stratigraphic boundaries shown on the borehole records are inferred from non-continuous sampling, observations of drilling process and the results of Standard Penetration Tests. These boundaries, therefore, represent transitions between soil types rather than exact planes of geological change. Furthermore, subsurface conditions will vary between and beyond the borehole locations.

In summary, the subsurface conditions at the boreholes completed in the vicinity of the proposed redevelopment were generally uniform and consist of fill material (i.e., primarily sand and gravel, occasional sand, silt, gravelly sand, silty clay/sandy silty clay) underlain primarily by native stiff to hard silty clay/sandy silty clay deposits. As an exception, at the northeast corner of the property, native very dense gravelly silty sand with low plasticity fines was encountered underneath the fill material. Underlying the overburden, highly weathered to weathered shale bedrock was encountered to the drilled depths. The detailed descriptions of the subsurface conditions are provided in the following sections of this report. The subsurface conditions are described in accordance with the Unified Soil Classification System and the Canadian Foundation Engineering Manual, (CFEM 2006).

3.2.1 Surficial Cover and Fill

Surficial cover consisting of topsoil (50 mm thick in MW4-22) and asphalt (70 mm thick in BH12-22 and BH14-22) was encountered in three boreholes. Remaining boreholes did not encounter any discernible surface cover.

Underneath the surficial cover and/or the ground surface, primarily sand and gravel fill material with trace of silt and clay and with occasional asphalt and brick fragments were encountered in the boreholes. The fill material also included sand, silt, gravelly sand, silty clay/sandy silty clay layers. The fill layer thickness ranged approximately between 0.3 m and 2.3 m.

SPT N values within the fill material ranged between 5 and 46 blows per 300 mm penetration indicating a very loose/soft to dense/very stiff state of compactness/consistency.

Measured natural water contents ranged between 1% to 27% by weight.

One Atterberg limits test was conducted in the sandy silty clay fill layer in MW2-22. The results are summarized in Table 2 below and details are presented in **Appendix B**.

Grain Size distribution testing was carried out on two samples of the fill material in boreholes MW2-22 and BH10-22. The results of these grain size tests are presented in Table 3 and the details are presented in **Appendix B**.

Table 2 Geotechnical Laboratory Testing- Summary of Atterberg Testing Results- Fill Material

Borehole ID	Sample Number	Liquid Limit (LL)	Plastic Limit (PL)	Plasticity Index (PI)
MW2-22	SS2	43	24	19

Table 3 Geotechnical Laboratory Testing- Summary of Grainsize Distribution Testing Results- Fill Material

Borehole ID	Sample Depth (mbgs)	Particle Size Distribution (ASTM D422, and ASTM D421)			
		Gravel (%)	Sand (%)	Silt (%)	Clay (%)
MW2-22, BH10-22	0.8	1-5	24-36	39-47	27-31

3.2.2 Silty Clay/Sandy Silty Clay

Native soil deposits consisting of silty clay with some sand to sandy silty clay containing occasional shale fragments were encountered underneath the fill material in all boreholes except BH14-22. This deposit was encountered at an approximate depth ranging from 0.3 mbgs to 4.0 mbgs.

SPT N values within the silty clay/sandy silty clay layer ranged from 4 to more than 50 blows per 300 mm of penetration indicating a firm to hard consistency.

Measured natural water contents ranged between 5% to 30% by weight.

Atterberg limits tests were conducted on several samples of the silty clay/sandy silty clay. The range of the observed test results are summarized in Table 4 below and the details are presented in **Appendix B**. The soil generally exhibited intermediate plasticity.

Grain Size distribution testing was carried out on multiple samples of the silty clay/sandy silty clay material in different boreholes. The results of these grain size tests are presented in Table 5 and the details are presented in **Appendix B**.

Table 4 Geotechnical Laboratory Testing- Summary of Atterberg Testing Results- Silty Clay/Sandy Silty Clay

Borehole ID	Sample Depth (mbgs)	Liquid Limit (LL)	Plastic Limit (PL)	Plasticity Index (PI)
BH1-22 to BH13-22 and MW1-22 through MW4-22	0.3 – 4.0	27-43	16-25	14-19

Table 5 Geotechnical Laboratory Testing- Summary of Grainsize Distribution Testing Results- Silty Clay/Sandy Silty Clay

Borehole ID	Sample Depth (mbgs)	Particle Size Distribution (ASTM D422, and ASTM D421)			
		Gravel (%)	Sand (%)	Silt (%)	Clay (%)
BH1-22 to BH14-22, MW1-22, and MW2-22	1.0 – 3.1	0-6	8-39	35-63	10-34

3.2.3 Gravelly Silty Sand

Gravelly silty sand with trace of clay and shale fragments was encountered in BH14-22 from a depth ranging from 2.3 mbgs to 3.3 mbgs.

SPT N value for this layer was measured to be more than 50 blows per 300 mm of penetration indicating a very dense compactness.

Moisture content of the soil was measured to be 12% by weight. One Atterberg limits test was conducted in this layer, and the results indicate low plasticity characteristics attributable to the fines content of the sample. The results are summarized in Table 6 Below and the details are presented in **Appendix B**. Grain Size distribution testing was carried out on one sample of the gravelly silty sand layer in BH14-22. The results of the grain size testing are presented in Table 7 and the details are presented in **Appendix B**.

Table 6 Geotechnical Laboratory Testing- Summary of Atterberg Testing Results- Gravelly Silty Sand

Borehole ID	Sample Number	Liquid Limit (LL)	Plastic Limit (PL)	Plasticity Index (PI)	Natural Moisture (%)
BH 14-22	SS4	26	16	10	11.5

Table 7 Geotechnical Laboratory Testing- Summary of Grainsize Distribution Testing Results- Gravelly Silty Sand

Borehole ID	Sample Depth (mbgs)	Particle Size Distribution (ASTM D422, and ASTM D421)			
		Gravel (%)	Sand (%)	Silt (%)	Clay (%)
BH14-22	2.5	24	38	30	8

3.2.4 Shale Bedrock

Weathered shale bedrock was encountered at depths ranging from 2.3 to 4.0 mbgs and in the bottom of most of the drilled boreholes (in all boreholes excluding BH5-22, BH6-22, and BH14-22 which were terminated at shallower depths). The drilling was advanced a distance of up to 2.3 m within the weathered shale prior to encountering auger refusal. The very stiff to hard silty clay soils encountered above the bedrock are likely residual soils that transition to the weathered bedrock layer and, as such, accurate estimation of the top of bedrock is often difficult in these settings.

3.3 Groundwater Conditions

Groundwater was encountered in most of the boreholes at a depth range of 0.4 to 4.0 mbgs. Table 8 below indicates the borehole ID, termination depth of the boreholes and the observed depth of groundwater level in them. Overall, the groundwater depth is observed to vary in different boreholes from lower part of the Surficial Cover and Fill material to the weathered bedrock material in the bottom of some of the boreholes.

Table 8 Groundwater Depths

Borehole ID	Termination Depth (mbgs)	Drilling Date	Groundwater Depth (mbgs)		
			Encountered During Drilling	Upon Borehole Completion	Measured (17-Jun-22)
BH1-22	3.9	13-Jun-22	3.9	-	-
BH2-22	3.9	14-Jun-22	-	Dry	-
BH3-22	3.9	14-Jun-22	-	Dry	-
BH4-22	3.8	14-Jun-22	1.2	3.7	-
BH5-22	2.5	14-Jun-22	0.6	Dry	-
BH6-22	2.7	14-Jun-22	-	2.1	-
BH7-22	3.9	13-Jun-22	1.7	1.5	-
BH8-22	3.9	14-Jun-22	0.9	1.2	-
BH9-22	3.9	14-Jun-22	-	Dry	-
BH10-22	3.1	13-Jun-22	0.6	Dry	-
BH11-22	4.7	13-Jun-22	-	4.0	-
BH12-22	3.2	10-Jun-22	2.3	2.7	-
BH13-22	3.2	10-Jun-22	-	Dry	-
BH14-22	3.3	10-Jun-22	-	2.3	-
MW1-22	4.1	6-Jun-22	-	Dry	3.0
MW2-22	4.1	6-Jun-22	1.5	-	1.9
MW3-22	3.1	6-Jun-22	0.9	-	0.4
MW4-22	5.4	10-Jun-22	2.3	-	2.9

It is noted that the groundwater levels reported above may not necessarily represent long-term stable water level conditions. The groundwater table at the site could be subject to seasonal fluctuations and could rise and decline in response to major weather events.

4. Discussion and Recommendations

This section of the report provides preliminary geotechnical engineering design recommendations for redevelopment of the property as a fire station, located at 2524 Cawthra Road in Mississauga Ontario.

The following recommendations are based on the interpretation of the factual data obtained from the boreholes advanced during this subsurface investigation. It should be noted that the preliminary geotechnical investigation report, discussion, and recommendations are intended for use by the designers only and should not be relied upon for any other purpose or by any other parties, including the construction or design-build contractor. Contractors bidding on or undertaking any work at the site at a later stage should examine the factual results of the assessment, satisfy themselves as to the adequacy of the information for construction, and make their own interpretation of this factual data as it affects their proposed construction techniques, equipment capabilities, costs, sequencing, scheduling, and the like. Where comments are made on construction, they are provided to highlight those aspects that could affect the design of the project. Comments, techniques, or recommendations pertaining to construction should not be construed as instructions to the contractor.

As of this preliminary stage, no specific information is available with respect to the fire station building location, finished floor elevation, driveways, and parking areas. In the following sections, preliminary geotechnical recommendations are provided considering the property as a whole.

4.1 Seismic Site Classification

This site may be classified as Site Class C in accordance with Table 4.1.8.4.A of the National Building Code of Canada 2015 Volume 1 as well as Ontario Building Code 2012 (O. Reg. 332/12), wherein the Seismic Site Classification was determined by corrected average penetration resistance.

4.2 Building Foundations

As per the limited information available for the proposed redevelopment at this preliminary stage, for foundation support of the proposed fire station building, shallow foundations/spread footings resting on the competent very stiff native silty clay soils is considered suitable and generally preferred for this site. Alternatively, ground improvement measures such as aggregate piers to top of bedrock could be considered to improve the soils beneath the building foundation. The advantages of rammed aggregate piers are multifold, including uniform bearing conditions, higher bearing capacity, better settlement control, avoiding massive over-excavation/replacement, and reduced groundwater control. Further considerations are provided below. This alternative could be further looked into at the detailed design stage.

4.2.1 Foundation Frost Depth

The estimated depth of frost penetration at this site is 1.2 m, based on OPSD 3090.101 (Foundation Frost Penetration Depths for Southern Ontario). The shallow foundations/spread footings must be founded at least 1.2 m below the lowest adjacent final grade to provide adequate protection against frost penetration.

4.2.2 Founding Elevation

Based on the information obtained from the boreholes, competent subsurface conditions are encountered generally at a depth of 1.5 mbgs, in the very stiff to hard native silty clay/sandy silty clay soils, with the exception of a few areas (around Boreholes BH3-22, BH4-22, BH7-22, BH14-22, and MW3-22), where the soft to firm cohesive soils or fill materials were encountered to a depth of about 2.3 mbgs.

In general, a founding depth of 1.5 mbgs can be used for founding shallow foundations/spread footings for the fire station building with the exception of the areas mentioned above. For these areas, the soft to firm cohesive soils/ fill material will need to be subexcavated to a depth of 2.3 mbgs. Following inspection of the underlying bearing stratum by qualified geotechnical personnel, either deeper spread footings can be used founded at 2.3 mbgs or the subexcavated areas can be backfilled with properly compacted and engineered granular fill material up to the founding depth of 1.5 mbgs. For both options, the base of the subexcavation should be inspected by a geotechnical engineer to ensure that all existing fill/softened zones or any other unsuitable material have been removed from within the subexcavation. After approval, if the subexcavation and backfill option is chosen, the subexcavated areas should be backfilled in layers to the founding depth of 1.5 mbgs with granular material meeting OPSS.MUNI 1010 (Aggregates - Base, Subbase Select Subgrade, and Backfill Material) Granular A or Granular B Type II material requirements, placed and compacted in accordance with OPSS.MUNI 501 (Compacting).

The subgrade soils (silty clay/sandy silty clay) may be susceptible to loosening/softening and degradation on exposure to water and construction traffic. If the footing concrete or the subexcavation backfill is not placed within four hours, a concrete working slab having a minimum thickness of 100 mm and a minimum 28-day compressive strength of 20 MPa, shall be placed in the excavation within four hours of exposure of the founding level to protect the integrity of the subgrade.

4.2.3 Geotechnical Resistance

For shallow foundations/spread footings founded at a depth of 1.5 mbgs on very stiff to hard native silty clay/sandy silty clay soils or well compacted engineered granular fill, a factored ultimate geotechnical resistance of 250 kPa and a serviceability geotechnical resistance (for 25 mm of settlement) of 175 kPa may be used for design. The geotechnical resistance factors should be taken in accordance with Table K-1 of Structural Commentaries (User's Guide – National Building Code of Canada – 2015: Part 4 of Division B).

The geotechnical resistances and settlement are dependent on the building location, footing dimensions and founding elevations and must be reviewed at detailed design stage if any of the above building parameters differ significantly from those assumed at this preliminary stage. The geotechnical resistances provided above are based on the loading applied perpendicular to the surface of the footings with no eccentricity. Where the load is not applied perpendicular to the surface of the footing and is eccentric from the centerline of the footing, the inclination and eccentricity of the load should be taken into account in accordance with Section 4.2.4.6 of the National Building Code of Canada 2015 Volume 1.

4.2.4 Resistance to Lateral Loads

Resistance to lateral forces or sliding resistance for footings should be calculated in accordance with Commentary K of Structural Commentaries (User's Guide – National Building Code of Canada – 2015: Part 4 of Division B). An unfactored coefficient of friction, tan δ of 0.45 may be used to account for the sliding resistance at the interface between cast in-situ concrete and the engineered granular fill. An unfactored coefficient of friction, tan δ of 0.36 may be used to account for the sliding resistance at the interface between cast in-situ concrete and native very stiff to hard silty clay/sandy silty clay soils.

4.3 Slab-on-grade Support

Due to the variable thickness and density of the existing fill, there is a risk of differential settlement within the slab-on-grade area and between the slab-on-grade and perimeter shallow foundations if the slab is founded on the existing fill. Full removal of the existing fill and backfilling with granular materials may not be a practical option. As a mitigative measure (but not fully eliminating the risk of differential settlement), at least the upper 1 m of the unsuitable/loose fill materials and soft to firm cohesive soils will need to be excavated out and the excavated surface will have to be heavily proof-rolled, to at least 98% SPMDD (Standard Proctor Maximum Dry Density). After proof-rolling and any further localized subexcavation for soft spots, the excavated areas should be backfilled with compacted granular material such as OPSS.MUNI 1010 Granular A or Granular B Type II material placed in layers to the underside of the slab-on-grade. The subgrade support immediately beneath the slab should consist of 200 mm of Granular A compacted to 100% SPMDD. Alternatively, ground improvement solutions such as aggregate piers can be used to improve soil conditions across the entire building footprint. This option could be further investigated at the detailed design stage.

4.4 Site Servicing

Underground service lines, if any, can be founded on either undisturbed native soils / weathered rock or a prepared fill subgrade. The suitability of the soils to provide adequate support for buried services must be verified and confirmed on site by qualified geotechnical personnel experienced in such work.

It is recommended that prior to commencing the construction of the site servicing, consideration be given to the excavation of a series of trial test pit excavations along the alignment of the proposed sewers/watermains to determine more accurately the soil behavior and if any dewatering works are required.

The bedding for trenched services should consist of material meeting City specifications. The bedding and sand cover materials should be adequately compacted to provide support and protection to the service pipes. Provided the base area of the sewer pipes and watermains is free of all loose and deleterious materials, the pipe bedding should comply

with the requirements of OPSD 802 series. Site servicing plans were not available at the time of this report and depending on the elevation of the utilities and subgrade material, additional bedding / base reinforcement may be required.

The bedding and cover material may consist of OPSS Granular “A” material compacted to at least 95% of its SPMDD. However, if some limited depths of standing water are present, High-Performance Bedding (HPB) and/or HL6 clear stone wrapped in geo-textile may be adopted as bedding material below the pipe to provide stabilization.

Backfilling of trenches can be accomplished by reusing the excavated soils or imported granular soil, provided the moisture content of the material is maintained within ±2 percent of optimum water content and the fill is free of topsoil, organics and any deleterious materials. The fill placed in excavated trenches should be in loose lifts not exceeding 300 mm thick and compacted to not less than 95% SPMDD. The top 1 m of the trench fil underlying settlement sensitive areas (such as road subgrades) should be compacted to at least 98% SPMDD.

4.5 Pavement Recommendations

4.5.1 Subgrade Preparation

Based on the variable fill encountered on the site, caution needs to be exercised in the preparation of the subgrade. It is recommended that any subgrades comprising of existing fill be thoroughly proofrolled using a minimum 10 ton roller, be inspected for obvious soft/loose areas and presence of deleterious materials. Should such areas be found, GHD can provide appropriate advice for replacement of the material and addressing local weak areas at that time.

New fill may be required to replace unsuitable fill or to raise the grade. Any fill placed to increase or level the grade, must be compacted to a minimum 98 percent SPMDD in lifts not exceeding 200 mm. In-situ density testing to monitor the effectiveness of the compaction equipment in achieving the required densities is also recommended. Geogrids can be used in the settlement sensitive areas for the granular layer stabilization. This will act as a composite due to interlock mechanism that develop between the aggregate and the stiff geogrid structure. This will also allow optimizing the overall pavement layer thickness provided in the following section.

4.5.2 Recommended Preliminary Pavement Structure

The following asphaltic concrete and granular pavement thickness in Table 9 and Table 10 may be used for the preliminary design of the potential driveways and parking areas. The pavement designs include a Heavy Duty for access routes and a Standard (Light) Duty for car parking areas and are based on providing a maximum design life of 20 years.

Table 9 Recommended Preliminary Asphalt Pavement Thicknesses

Pavement Layer	Compaction Requirements	Heavy Duty Pavement Design (Driveways)	Light Duty Pavement Design (Car Parking Areas)
Surface Course Asphaltic Concrete HL3 (OPSS.MUNI 1150)	92% to 96.5% Maximum Relative Density (OPSS.MUNI 310)	40 mm	40 mm
Base Course Asphaltic Concrete HL8 (OPSS.MUNI 1150)	92% to 96.5% Maximum Relative Density (OPSS.MUNI 310)	140 mm (2 layers of 70 mm each)	60 mm

Pavement Layer	Compaction Requirements	Heavy Duty Pavement Design (Driveways)	Light Duty Pavement Design (Car Parking Areas)
Base Course: Granular A (OPSS.MUNI 1010) or 19 mm Crusher Run (OPSS.MUNI 1004)	100% SPMDD	150 mm	150 mm
Subbase Course: Granular B Type I (OPSS.MUNI 1010)	98% SPMDD	500 mm	350 mm

Table 10 Recommended Preliminary Concrete Pavement Thicknesses

Pavement Layer	Compaction Requirements	Heavy Duty Pavement Design (Driveways)
Jointed Plain Concrete Pavement	N/A	250 mm
Base Course: Granular A (OPSS.MUNI 1010) or 19 mm Crusher Run (OPSS.MUNI 1004)	100% SPMDD	150 mm
Subbase Course: Granular B Type I (OPSS.MUNI 1010)	98% SPMDD	250 mm

4.6 Construction Considerations

4.6.1 Open Cut Excavations

The excavation for construction of the shallow foundations/spread footings will extend through the very loose to dense cohesionless fill material (sand and gravel, silt), soft to very stiff cohesive fill material (silty clay, sandy silty clay) and firm to hard native cohesive deposit (silty clay, sandy silty clay). Excavations at this site are also expected to encounter random debris and obstructions such as concrete, brick, asphalt and stone fragments which may be highly variable in size. Deeper excavations extending into the residual soil-weathered shale transition zone may encounter relic rock structures including harder limestone/siltstone interbeds. This will need to be considered while choosing the excavation equipment on site.

Groundwater was encountered at depths ranging from 0.4 to 4.0 mbgs. The shallow groundwater level encountered within the fill material is likely due to perched groundwater. The base of the excavation for the shallow foundations/spread footings is mostly anticipated to encounter the perched groundwater present within the fill material. Further details are provided in Section 4.5.2.

Where space permits, open cut excavations into these soil units must be carried out in accordance with the guidelines outlined in the current edition of the Occupational Health and Safety Act and Regulations (OHSA) for Construction Projects. All excavations should be carried out in the manner specified in Ontario Regulation 213/91 and the Occupational Health and Safety Act and Regulations for Construction Projects (OHSA).

The existing cohesive and cohesionless fill material is classified as Type 3 soils. If affected by surface water or groundwater seepage, these soils can be considered as Type 4 soils. The firm to stiff native cohesive deposit is classified as Type 3 soils. The very stiff to hard native cohesive deposit and very dense native cohesionless deposit are classified as Type 2 soils. Temporary excavations (i.e., those which are open for a relatively short time) should be

made with side slopes no steeper than 1 horizontal to 1 vertical in Type 3 soils. Excavated material must be stockpiled at a distance away from the excavation equal to or greater than the depth of the open cut excavation. If the excavation contains more than one type of soil, the excavation side slopes should be inclined based on the requirements for the soil with the highest number.

Excavated material must be stockpiled at a distance away from the excavation equal to or greater than the depth of the open cut excavation. Excavation of the soils at this site should be feasible using conventional excavation equipment.

4.6.2 Groundwater Control

Based on the groundwater depths encountered in the boreholes and monitoring wells, groundwater control within shallow excavations (up to 1.5 mbgs) can generally be handled by pumping from sump pumps at the base of the excavation for handling perched groundwater within the fill materials. Surface water and runoff should be directed away from the excavation areas to prevent ponding of water that could result in disturbance and weakening of the subgrade. For deeper excavations (up to 2.3 mbgs) and depending on the prevailing weather conditions, a more proactive approach to groundwater control may be required such as well points or eductor wells.

4.6.3 Temporary Excavation Support Systems/Shoring

Should the recommended excavation slopes be impractical in some areas of the site, due to space limitations or risk of damaging existing structures or underground service utilities, engineered temporary shoring systems will be required. Temporary excavation support systems should be designed and constructed in accordance with OPSS.PROV 539 (Temporary Protection Systems). The lateral movement of the protection system should meet Performance Level 2 as specified in OPSS.PROV 539, provided that any utilities, if present can tolerate this magnitude of deformation. The selection and design of the temporary protection system will be the responsibility of the contractor.

It is anticipated that a driven interlocking sheet pile system may be constructable; however, high SPT ‘N’ values were recorded in the native silty clay/sandy silty clay deposit and there is the potential that the sheet pile may not be able to adequately penetrate to a depth to provide sufficient passive resistance for the retained soil height, plus any surcharge loads behind the protection system. Consideration should be given to protecting the tips of the sheet piles and/or the use of heavier sheet pile sections, assuming a sheet pile system is adopted by the contractor. Alternatively, a soldier pile and lagging system could be used given the cohesive nature of the soils at the site.

The following information is provided to the designers to aid in assessment of the approximate construction costs. Passive toes restraint to the soldier piles may be determined using conventional passive earth pressure distribution acting over an equivalent width equal to three times the soldier pile socket diameter provided that the soldier piles are separated by more than three times the socket diameter. Design of the temporary protection system should include an evaluation of base stability and hydraulic uplift stability as defined in the CFEM (2006).

The total passive resistance below the base of the excavation (i.e., adjacent to the temporary protection system) may be calculated based on the values of K_p indicated below in Table 11. The earth pressure coefficients given below assume that the ground surface behind the roadway protection system is horizontal. If the retained ground is sloping, the lateral earth pressure coefficients must be adjusted accordingly to account for the slope.

Table 11 Recommended Soil Parameters for Temporary Excavation Support Systems/Shoring

Soil Type	Total Unit Weight (kN/m^3)	Angle of Internal Friction, Φ (degrees)	Undrained Shear Strength S_u (kPa)	Coefficient of Lateral Earth Pressure		
				Active (K_a)	At Rest (K_0)	Passive (K_p)
Fill – Cohesionless (very loose to dense)	18	28	-	0.36	0.53	2.78
Fill – Cohesive (soft to very stiff)	18	28	50	0.36	0.53	2.78
Native – Firm Silty Clay/Sandy Silty Clay	19	30	50	0.33	0.50	3.00
Native – Stiff to Very Stiff Silty Clay/Sandy Silty Clay	20	32	75	0.31	0.47	3.22
Native – Very Stiff to Hard Silty Clay/Sandy Silty Clay	21	34	150	0.28	0.44	3.54
Native – Very Dense Gravelly Silty Sand	21	35	-	0.26	0.41	3.85

5. Limitations

This report is intended solely for the City of Mississauga and their designers and is prohibited for use by others without GHD's prior written consent. This report is considered GHD's professional work product and shall remain the sole property of GHD. Any unauthorized reuse, redistribution of or reliance on the report shall be at the Client and recipient's sole risk, without liability to GHD. No portion of this report may be used as a separate entity; it is to be read in its entirety and shall include all supporting drawings and appendices.

The recommendations made in this report are in accordance with our present understanding of the project, the current site use, ground surface elevation and conditions, and are based on the work scope approved by the Client and described in the report. The services were performed in a manner consistent with that level of care and skill ordinarily exercised by members of geotechnical engineering professions currently practicing under similar conditions in the same locality. No other representations, and no warranties or representations of any kind, either expressed or implied, are made. Any use which a third party makes of this report, or any reliance on or decisions to be made based on it, are the responsibility of such third parties.

All details of design and construction are rarely known at the time of completion of a geotechnical study. The recommendations and comments made in the study report are based on our subsurface investigation and resulting understanding of the project, as defined at the time of the study. We should be retained to review our recommendations when the drawings and specifications are complete. Without this review, GHD will not be liable for any misunderstanding of our recommendations or their application and adaptation into the final design.

By issuing this report, GHD is the geotechnical engineer of record. It is recommended that GHD be retained during construction of all foundations and during earthwork operations to confirm the conditions of the subsoil are actually similar to those observed during our study. The intent of this requirement is to verify that conditions encountered during construction are consistent with the findings in the report and that inherent knowledge developed as part of our study is correctly carried forward to the construction phases.

It is important to emphasize that a soil investigation is, in fact, a random sampling of a site and the comments included in this report are based on the results obtained at the test locations only. The subsurface conditions confirmed at the test locations may vary at other locations. The subsurface conditions can also be significantly modified by the construction activities on site (e.g., excavation, dewatering and drainage, blasting, pile driving, etc.). These conditions can also be modified by exposure of soils or bedrock to humidity, dry periods, or frost. Soil and groundwater conditions

between and beyond the test locations may differ both horizontally and vertically from those encountered at the test locations and conditions may become apparent during construction which could not be detected or anticipated at the time of our investigation. Should any conditions at the site be encountered which differ from those found at the test locations, we request that we be notified immediately in order to permit a reassessment of our recommendations. If changed conditions are identified during construction, no matter how minor, the recommendations in this report shall be considered invalid until sufficient review and written assessment of said conditions by GHD is completed.

6. Closure

The fieldwork for this foundation investigation was managed by Bernard Hau, M.EnvSc., P.Geo., C.E.T. This report was prepared by Ali Fallah Yeznabad, M.Sc., Ph.D. and Anuj Choudhari, M.Sc., P.Eng., P.E.

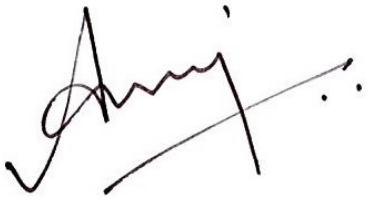
Mrinmoy Kanungo, M.E.Sc., P.Eng., a Senior Geotechnical Engineer with GHD conducted an independent review of the report.

We trust that the above is satisfactory for your present requirements. Please contact us if you have any questions.

All of Which is Respectfully Submitted,

GHD

Ali Fallah Yeznabad, M.Sc., Ph.D.
Intermediate Geotechnical Engineer-in-Training



Anuj Choudhari, M.Sc., P.Eng., P.E.
Intermediate Geotechnical Engineer

Mrinmoy Kanungo, M.E.Sc., P.Eng.
Senior Geotechnical Engineer

Figures

LEGEND

- PROPERTY BOUNDARY
- ABOVE GROUND STORAGE TANK
- BOREHOLE LOCATION (UP TO 2.5 mBGS)
- BOREHOLE LOCATION (UP TO 6.0 mBGS)
- MONITORING WELL LOCATION (UP TO 6.0 mBGS)

0 7.5 15 22.5m

1:750

Coordinate System:
UTM with NAD83 datum, Zone 17, Meter

Plan North

N

GHD

THE CORPORATION OF THE CITY OF MISSISSAUGA
2524 CAWTHRA ROAD, MISSISSAUGA, ONTARIO

BOREHOLE LOCATION PLAN

Project No. **12581540**
Date **March 2024**

FIGURE 1

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Appendices

Appendix A

Borehole Records

Notes on Borehole and Test Pit Reports

Soil description :

Each subsurface stratum is described using the following terminology. The relative density of granular soils is determined by the Standard Penetration Index ("N" value), while the consistency of clayey soils is measured by the value of undrained shear strength (Cu).

Classification (Unified system)

Clay	< 0.002 mm		
Silt	0.002 to 0.075 mm		
Sand	0.075 to 4.75 mm	fine	0.075 to 4.25 mm
		medium	0.425 to 2.0 mm
		coarse	2.0 to 4.75 mm
Gravel	4.75 to 75 mm	fine	4.75 to 19 mm
		coarse	19 to 75 mm
Cobbles	75 to 300 mm		
Boulders	>300 mm		

Terminology

"trace"	1-10%
"some"	10-20%
adjective (silty, sandy)	20-35%
"and"	35-50%

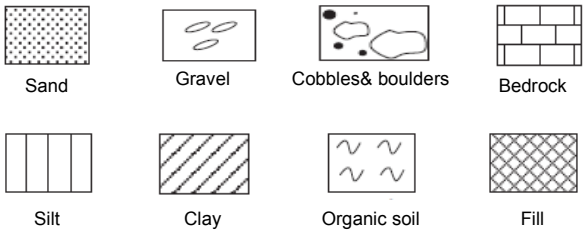
Relative density of granular soils	Standard penetration index "N" value (BLOWS/ft – 300 mm)
Very loose	0-4
Loose	4-10
Compact	10-30
Dense	30-50
Very dense	>50

Consistency of cohesive soils	Undrained shear strength (Cu) (P.S.F)	(kPa)
Very soft	<250	<12
Soft	250-500	12-25
Firm	500-1000	25-50
Stiff	1000-2000	50-100
Very stiff	2000-4000	100-200
Hard	>4000	>200

Rock quality designation

"RQD" (%) Value	Quality
<25	Very poor
25-50	Poor
50-75	Fair
75-90	Good
>90	Excellent

STRATIGRAPHIC LEGEND



Samples:

Type and Number

The type of sample recovered is shown on the log by the abbreviation listed hereafter. The numbering of samples is sequential for each type of sample.

SS: Split spoon
SSE, GSE, AGE: Environmental sampling
ST: Shelby tube
PS: Piston sample (Osterberg)
AG: Auger
RC: Rock core
GS: Grab sample

Recovery

The recovery, shown as a percentage, is the ratio of length of the sample obtained to the distance the sampler was driven/pushed into the soil

RQD

The "Rock Quality Designation" or "RQD" value, expressed as percentage, is the ratio of the total length of all core fragments of 4 inches (10 cm) or more to the total length of the run.

IN-SITU TESTS:

N: Standard penetration index
R: Refusal to penetration
N_c: Dynamic cone penetration index
Cu: Undrained shear strength
Pr: Pressure meter
k: Permeability
ABS: Absorption (Packer test)

LABORATORY TESTS:

I_p: Plasticity index
W_l: Liquid limit
Wp: Plastic limit
H: Hydrometer analysis
GSA: Grain size analysis
A: Atterberg limits
w: Water content
γ: Unit weight
C: Consolidation
CS: Swedish fall cone
CHEM: Chemical analysis
O.V.: Organic vapor

REFERENCE No.: 12581540

BOREHOLE REPORT

Page 1 of 1

BOREHOLE No.: BH1-22

ELEVATION: 117.48 m

CLIENT: City of Mississauga

PROJECT: Geotechnical Investigation

LOCATION: 2524 Cawthra Road, Mississauga, Ontario

DESCRIBED BY: J. Bisson CHECKED BY:

DATE (START): 13 June 2022 DATE (FINISH): 13 June 2022

LEGEND

- SS - SPLIT SPOON
- ST - SHELBY TUBE
- VA - VANE SHEAR
- AU - AUGER PROBE
- ▼ - WATER LEVEL

NORTHING: 4827494.69 EASTING: 613032.105 ELEVATION: 117.48

Depth Feet	Depth Metres	Elevation (m) BGS	Stratigraphy	DESCRIPTION OF SOIL	State	Type and Number	Gravel Sand Silt Clay	Unit Weight	Recovery/ TCR(%)	Moisture Content	Blows per 15cm/ RQD(%)	'N' Value/ SCR(%)	Shear test (Cu) △ Field □ Lab; Sensitivity (S); ○ Water content (%); W_p W_l Atterberg limits (%); ● "N" Value (blows / 12 in.-30 cm)	PIEZOMETER/ STANDPIPE INSTALLATION
				GROUND SURFACE			%	KN/m3	%	%			10 20 30 40 50 60 70 80 90	
0				FILL : SAND and GRAVEL, trace silt and clay, rootlets, brick fragments, yellow/brown, moist, compact		SS1			75	10	4-4-10-14	14		
3	0.91 1.0	116.57		NATIVE : CI-SANDY SILTY CLAY, trace gravel, shale fragments, rootlets, mottled brown/grey, moist, stiff to hard (residual soil)		SS2A			--	15	--	--		
4						SS2B			58	13	4-4-9-6	13		
6	2.0					SS3	3-24-56-17		67	17	5-10-43-26	53		
7	2.29	115.19		SHALE-BEDROCK, highly weathered, thinly bedded, fractured, grey		SS4			62	5	50/ 125mm	50/ 125mm		
10	3.0					SS5			100	8	50/ 25mm	50/ 25mm		
13	3.90 4.0	113.58		**END OF BOREHOLE :** **NOTE :** - Borehole terminated at 3.9 m bgs upon auger refusal within weathered bedrock - Groundwater encountered at 3.90 m bgs during drilling - bgs denotes 'below ground surface'		SS6			100	--	50/ 75mm	50/ 75mm		▼
20	6.0													
23	7.0													

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REFERENCE No.: 12581540

BOREHOLE REPORT

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BOREHOLE No.: BH2-22

ELEVATION: 117.07 m

CLIENT: City of Mississauga

PROJECT: Geotechnical Investigation

LOCATION: 2524 Cawthra Road, Mississauga, Ontario

DESCRIBED BY: J. Bisson CHECKED BY:

DATE (START): 14 June 2022 DATE (FINISH): 14 June 2022

LEGEND

- SS - SPLIT SPOON
- ST - SHELBY TUBE
- VA - VANE SHEAR
- AU - AUGER PROBE
- ▼ - WATER LEVEL

NORTHING: 4827464.556 EASTING: 613060.783 ELEVATION: 117.07

Depth (Feet)	Depth (Metres)	Elevation (m) BGS	Stratigraphy	DESCRIPTION OF SOIL	State	Type and Number	Gravel Sand Silt Clay	Unit Weight	Recovery/ TCR(%)	Moisture Content	Blows per 15cm/ RQD(%)	'N' Value/ SCR(%)	Shear test (Cu) △ Field / Sensitivity (S) □ Lab; ○ Water content (%); W_p W_l Atterberg limits (%); ● "N" Value (blows / 12 in.-30 cm)	PIEZOMETER/ STANDPIPE INSTALLATION
				GROUND SURFACE			%	KN/m3	%	%			10 20 30 40 50 60 70 80 90	
0				FILL : SAND and GRAVEL, brown, moist		SS1A			--	--	--	--		
1	0.31	116.76		NATIVE : CI-SILTY CLAY, some sand, trace gravel, shale fragments, contains organics, mottled brown/grey, moist, stiff to very stiff		SS1B			75	16	7-9-4-4	13	●	
2														
3	1.0					SS2			33	15	2-7-6-10	13	●	
4														
5														
6	2.0					SS3	4-12-61-23		100	19	6-6-12-34	18	●	
7														
8	2.29	114.78		SHALE-BEDROCK, highly weathered, thinly bedded, fractured, grey		SS4			100	2	50/ 75mm	50/ 75mm	○	
9														
10	3.0					SS5			100	6	26-50/ 0mm	50/ 0mm	○	
11														
12														
13	3.90	113.17				SS6			100	5	50/ 100mm	50/ 100mm	○	
	4.0			**END OF BOREHOLE :** **NOTE :** - Borehole terminated at 3.90 m bgs upon auger refusal within weathered bedrock - Borehole was open and dry upon completion - bgs denotes 'below ground surface'										
14														
15														
16	5.0													
17														
18														
19														
20	6.0													
21														
22														
23	7.0													
24														

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REFERENCE No.: 12581540

BOREHOLE No.: BH3-22

ELEVATION: 117.58 m

BOREHOLE REPORT

CLIENT: City of Mississauga

PROJECT: Geotechnical Investigation

LOCATION: 2524 Cawthra Road, Mississauga, Ontario

DESCRIBED BY: J. Bisson CHECKED BY:

DATE (START): 14 June 2022 DATE (FINISH): 14 June 2022

LEGEND

- SS - SPLIT SPOON
- ST - SHELBY TUBE
- VA - VANE SHEAR
- AU - AUGER PROBE
- ▼ - WATER LEVEL

NORTHING: 4827496.152 EASTING: 613039.956 ELEVATION: 117.58

Depth Feet	Depth Metres	Elevation (m) BGS	Stratigraphy	DESCRIPTION OF SOIL	State	Type and Number	Gravel Sand Silt Clay	Unit Weight	Recovery/ TCR(%)	Moisture Content	Blows per 15cm/ RQD(%)	'N' Value/ SCR(%)	Shear test (Cu) △ Field / Sensitivity (S) □ Lab; ○ Water content (%); W_p W_l Atterberg limits (%); ● "N" Value (blows / 12 in.-30 cm)	PIEZOMETER/ STANDPIPE INSTALLATION
				GROUND SURFACE			%	KN/m3	%	%			10 20 30 40 50 60 70 80 90	
0				FILL : SAND and GRAVEL, trace brick fragments, yellow/red, moist, compact		SS1			58	--	12-10-14-8	24	●	
1														
2	0.76	116.82		NATIVE : CI-SANDY SILTY CLAY, trace gravel, mottled brown/grey, moist, stiff		SS2	2-32-40-26		83	24	4-6-7-10	13	● ⊢●	
3	1.0													
4														
5	1.52	116.06		CI-SILTY CLAY, some sand, shale fragments, grey, moist, stiff to hard (residual soil)		SS3	0-15-63-22		50	15	6-5-9-9	14	●	
6	2.0													
7						SS4			100	7	39-40-50/ 0mm	90/ 150mm	○	
8														
9	3.0													
10	3.05	114.53		SHALE-BEDROCK, weathered, thinly bedded, fractured, grey		SS5			100	4	50/ 100mm	50/ 100mm	○	
11														
12						SS6			100	15	50/ 75mm	50/ 75mm	○	
13	3.90	113.68		**END OF BOREHOLE :** **NOTE :** - Borehole terminated at 3.9 m bgs upon auger refusal within weathered bedrock - Borehole was open and dry upon completion - bgs denotes 'below ground surface'										
	4.0													
14														
15														
16	5.0													
17														
18														
19														
20	6.0													
21														
22														
23	7.0													
24														

REFERENCE No.: 12581540

BOREHOLE REPORT

Page 1 of 1

BOREHOLE No.: BH4-22

ELEVATION: 117.65 m

CLIENT: City of Mississauga

PROJECT: Geotechnical Investigation

LOCATION: 2524 Cawthra Road, Mississauga, Ontario

DESCRIBED BY: J. Bisson CHECKED BY:

DATE (START): 14 June 2022 DATE (FINISH): 14 June 2022

LEGEND

- SS - SPLIT SPOON
- ST - SHELBY TUBE
- VA - VANE SHEAR
- AU - AUGER PROBE
- ▼ - WATER LEVEL

NORTHING: 4827491.634 EASTING: 613049.426 ELEVATION: 117.65

Depth Feet	Depth Metres	Elevation (m) BGS	Stratigraphy	DESCRIPTION OF SOIL	State	Type and Number	Gravel Sand Silt Clay	Unit Weight	Recovery/ TCR(%)	Moisture Content	Blows per 15cm/ RQD(%)	'N' Value/ SCR(%)	Shear test (Cu) △ Field □ Lab; Sensitivity (S); ○ Water content (%); W_p W_l Atterberg limits (%); ● "N" Value (blows / 12 in.-30 cm)	PIEZOMETER/ STANDPIPE INSTALLATION
				GROUND SURFACE			%	KN/m3	%	%			10 20 30 40 50 60 70 80 90	
0				FILL : SAND and GRAVEL, asphalt and brick fragments, brown, moist, dense		SS1			75	11	11-17-13-10	30		
1														
2	0.61	117.04		NATIVE : CI-SANDY SILTY CLAY, rootlets, organics, green/grey, moist, stiff										
3	1.0					SS2	0-39-40-21		75	30	3-4-6-7	10		
4														
5	1.52	116.13		CI-SILTY CLAY, some sand, shale fragments, grey, moist, stiff to hard (residual soil)										
6						SS3			75	17	4-4-6-9	10		
7	2.0													
8						SS4			100	9	22-50/ 75mm	50/ 75mm		
9														
10	3.0													
	3.05	114.60		SHALE-BEDROCK, weathered, thinly bedded, fractured, grey		SS5			100	1	50/ 25mm	50/ 25mm		
11														
12														▼
	3.84	113.81		**END OF BOREHOLE :**		SS6			100	4	50/ 25mm	50/ 25mm		
13	4.0			**NOTE :** - Borehole terminated at 3.8 m bgs upon auger refusal within weathered bedrock - Groundwater level at 3.7 m bgs upon completion - bgs denotes 'below ground surface'										
14														
15														
16	5.0													
17														
18														
19														
20	6.0													
21														
22														
23	7.0													
24														

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REFERENCE No.: 12581540

BOREHOLE REPORT

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BOREHOLE No.: BH5-22

ELEVATION: 117.63 m

CLIENT: City of Mississauga

PROJECT: Geotechnical Investigation

LOCATION: 2524 Cawthra Road, Mississauga, Ontario

DESCRIBED BY: J. Bisson CHECKED BY:

DATE (START): 14 June 2022 DATE (FINISH): 14 June 2022

LEGEND

- SS - SPLIT SPOON
- ST - SHELBY TUBE
- VA - VANE SHEAR
- AU - AUGER PROBE
- ▼ - WATER LEVEL

NORTHING: 4827507.476 EASTING: 613047.551 ELEVATION: 117.63

Depth Feet	Depth Metres	Elevation (m) BGS	Stratigraphy	DESCRIPTION OF SOIL	State	Type and Number	Gravel Sand Silt Clay	Unit Weight	Recovery/ TCR(%)	Moisture Content	Blows per 15cm/ RQD(%)	'N' Value/ SCR(%)	Shear test (Cu) △ Field / Sensitivity (S) □ Lab; ○ Water content (%); W_p W_l Atterberg limits (%); ● "N" Value (blows / 12 in.-30 cm)	PIEZOMETER/ STANDPIPE INSTALLATION
				GROUND SURFACE			%	KN/m3	%	%			10 20 30 40 50 60 70 80 90	
0				FILL : SAND and GRAVEL, trace gravel, trace brick fragments, brown, moist, dense		SS1			92	8	13-24-18-25	42		
1														
2	0.61	117.02		NATIVE : CI-SANDY SILTY CLAY, trace gravel, organics, olive green, moist, stiff										
3	1.0					SS2	5-39-35-21		75	27	10-5-6-9	11		
4														
5	1.52	116.11		CI-SILTY CLAY, some sand, shale fragments, grey, moist, very stiff to hard (residual soil)										
6	2.0					SS3	0-13-57-30		79	18	5-6-9-12	15		
7														
8	2.50	115.13		**END OF BOREHOLE :** **NOTE :** - Borehole terminated at 2.5 m bgs upon auger refusal within presumed bedrock - Borehole was open and dry upon completion - bgs denotes 'below ground surface'		SS4			100	10	20-50/ 75mm	50/ 75mm		
9														
10	3.0													
11														
12														
13	4.0													
14														
15														
16	5.0													
17														
18														
19	6.0													
20														
21														
22														
23	7.0													
24														

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REFERENCE No.: 12581540

BOREHOLE REPORT

Page 1 of 1

BOREHOLE No.: BH6-22

ELEVATION: 117.64 m

CLIENT: City of Mississauga

PROJECT: Geotechnical Investigation

LOCATION: 2524 Cawthra Road, Mississauga, Ontario

DESCRIBED BY: J. Bisson CHECKED BY:

DATE (START): 14 June 2022 DATE (FINISH): 14 June 2022

LEGEND

- SS - SPLIT SPOON
- ST - SHELBY TUBE
- VA - VANE SHEAR
- AU - AUGER PROBE
- ▼ - WATER LEVEL

NORTHING: 4827498.03 EASTING: 613060.235 ELEVATION: 117.64

Depth (Feet)	Depth (Metres)	Elevation (m) BGS	Stratigraphy	DESCRIPTION OF SOIL	State	Type and Number	Gravel Sand Silt Clay	Unit Weight	Recovery/ TCR(%)	Moisture Content	Blows per 15cm/ RQD(%)	'N' Value/ SCR(%)	Shear test (Cu) △ Field □ Lab; Sensitivity (S); ○ Water content (%); Atterberg limits (%) W_p W_l; ● "N" Value (blows / 12 in.-30 cm)	PIEZOMETER/ STANDPIPE INSTALLATION
				GROUND SURFACE			%	KN/m3	%	%			10 20 30 40 50 60 70 80 90	
0				FILL : SAND and GRAVEL, trace brick and asphalt fragments, brown, moist, compact		SS1			79	8	13-15-9-6	24		
1														
2														
3	1.0					SS2			42	14	6-4-6-7	10		
4														
	1.37	116.27		NATIVE : CI-SILTY CLAY, some sand, shale fragments, grey, moist, very stiff to hard (residual soil)										
5														
6						SS3	0-17-54-29		67	19	3-15-8-14	23		▼
7	2.0													
8						SS4			100	13	39-24-50/ 100mm	74/ 250mm		
9	2.70	114.94		**END OF BOREHOLE :** **NOTE :** - Borehole terminated at 2.7 m bgs upon auger refusal within presumed bedrock - Groundwater level measured at 2.13 m bgs upon completion - bgs denotes 'below ground surface'										
10	3.0													
11														
12														
13	4.0													
14														
15														
16	5.0													
17														
18														
19														
20	6.0													
21														
22														
23	7.0													
24														

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REFERENCE No.: 12581540

BOREHOLE No.: BH7-22
ELEVATION: 117.67 m

BOREHOLE REPORT

CLIENT: City of Mississauga
PROJECT: Geotechnical Investigation
LOCATION: 2524 Cawthra Road, Mississauga, Ontario
DESCRIBED BY: J. Bisson CHECKED BY:
DATE (START): 13 June 2022 DATE (FINISH): 13 June 2022

LEGEND
- SS - SPLIT SPOON
- ST - SHELBY TUBE
- VA - VANE SHEAR
- AU - AUGER PROBE
- ▼ - WATER LEVEL

NORTHING: 4827518.152 EASTING: 613061.029 ELEVATION: 117.67

Depth Feet	Depth Metres	Elevation (m) BGS	Stratigraphy	DESCRIPTION OF SOIL	State	Type and Number	Gravel Sand Silt Clay	Unit Weight	Recovery/ TCR(%)	Moisture Content	Blows per 15cm/ RQD(%)	'N' Value/ SCR(%)	Shear test (Cu) △ Field, Sensitivity (S) □ Lab, ○ Water content (%), Atterberg limits (W_p W_l) (%), ● "N" Value (blows / 12 in.-30 cm)	PIEZOMETER/ STANDPIPE INSTALLATION
				GROUND SURFACE			%	KN/m3	%	%			10 20 30 40 50 60 70 80 90	
0				FILL : SAND and GRAVEL, concrete, asphalt, glass fragments, brown/grey, moist, compact		SS1			92	--	9-16-12-10	28	●	
2	0.61	117.06		SILTY CLAY, trace sand and gravel, mottled grey/brown, moist, stiff		SS2			96	14	4-4-6-8	10	● ○	
5	1.0					SS3A			83	16	3-3-13-13	16	●	▼
6	1.83	115.84		SAND, some gravel, brick fragments, wet, compact		SS3B			--	24	--	--	○	
7	2.0													
7	2.29	115.38		NATIVE : CI-SANDY SILTY CLAY, brown, moist, hard		SS4	0-28-50-22		100	22	50/ 75mm	50/ 75mm	○	
10	3.0 3.05	114.62		CI-SILTY CLAY and SAND, trace gravel, shale fragments, grey, moist, hard (residual soil)		SS5	3-38-48-11		100	7	41-50/ 125mm	50/ 125mm	○	
12	3.81	113.86		SHALE-BEDROCK, thinly bedded, fine grained, weathered, grey		SS6			100	6	50/ 75mm	50/ 75mm	○	
13	3.90 4.0	113.77		**END OF BOREHOLE :** **NOTE :** - Borehole terminated at 3.9 m bgs upon auger refusal within weathered bedrock - Groundwater encountered at 1.67 m bgs during drilling - Groundwater level measured at 1.5 m bgs upon completion - bgs denotes 'below ground surface'										
16	5.0													
20	6.0													
23	7.0													

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REFERENCE No.: 12581540

BOREHOLE REPORT

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BOREHOLE No.: BH8-22

ELEVATION: 117.65 m

CLIENT: City of Mississauga

PROJECT: Geotechnical Investigation

LOCATION: 2524 Cawthra Road, Mississauga, Ontario

DESCRIBED BY: J. Bisson CHECKED BY:

DATE (START): 14 June 2022 DATE (FINISH): 14 June 2022

LEGEND

- SS - SPLIT SPOON
- ST - SHELBY TUBE
- VA - VANE SHEAR
- AU - AUGER PROBE
- ▼ - WATER LEVEL

NORTHING: 4827510.36 EASTING: 613069.88 ELEVATION: 117.65

Depth (Feet)	Depth (Metres)	Elevation (m) BGS	Stratigraphy	DESCRIPTION OF SOIL	State	Type and Number	Gravel Sand Silt Clay	Unit Weight	Recovery/ TCR(%)	Moisture Content	Blows per 15cm/ RQD(%)	'N' Value/ SCR(%)	Shear test (Cu) △ Field □ Lab; Sensitivity (S); ○ Water content (%); Atterberg limits (%) W_p W_l; ● "N" Value (blows / 12 in.-30 cm)	PIEZOMETER/ STANDPIPE INSTALLATION
				GROUND SURFACE			%	KN/m3	%	%			10 20 30 40 50 60 70 80 90	
0				FILL : SAND and GRAVEL, trace silt, brick and asphalt fragments, brown, moist, dense		SS1			100	7	21-15-18-24	33		
1														
2														
	0.76	116.89		SANDY SILTY CLAY, trace gravel, brick fragments, brown/grey, moist, very stiff		SS2			54	12	4-7-11-21	18		▼
3	1.0													
4														
5	1.52	116.13		CI-SILTY CLAY, trace sand, grey shale fragments, grey, moist, very stiff to hard (residual soil)		SS3	0-7-59-34		87	15	8-7-12-18	19		
6	2.0													
7														
8						SS4			100	6	21-34-52-50/0mm	86		
9														
	3.0													
10	3.05	114.60		SHALE-BEDROCK, highly weathered, thinly bedded, grey		SS5			100	11	22-50/ 100mm	50/ 100mm		
11														
12														
	3.90	113.75				SS6			100	--	50/ 50mm	50/ 50mm		
13	4.0			**END OF BOREHOLE :**										
14				**NOTE :**										
15				- Borehole terminated at 3.9 m bgs upon auger refusal within weathered bedrock										
16				- Groundwater encountered at 0.91 m bgs during drilling										
	5.0			- Groundwater level measured at 1.23 m bgs upon completion										
17				- bgs denotes 'below ground surface'										
18														
19														
	6.0													
20														
21														
22														
23	7.0													
24														

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REFERENCE No.: 12581540

BOREHOLE No.: BH9-22
ELEVATION: 117.58 m

BOREHOLE REPORT

CLIENT: City of Mississauga
PROJECT: Geotechnical Investigation
LOCATION: 2524 Cawthra Road, Mississauga, Ontario
DESCRIBED BY: J. Bisson CHECKED BY:
DATE (START): 14 June 2022 DATE (FINISH): 14 June 2022

LEGEND
- SS - SPLIT SPOON
- ST - SHELBY TUBE
- VA - VANE SHEAR
- AU - AUGER PROBE
- ▼ - WATER LEVEL

NORTHING: 4827506.315 EASTING: 613079.647 ELEVATION: 117.58

Depth Feet	Depth Metres	Elevation (m) BGS	Stratigraphy	DESCRIPTION OF SOIL	State	Type and Number	Gravel Sand Silt Clay	Unit Weight	Recovery/ TCR(%)	Moisture Content	Blows per 15cm/ RQD(%)	'N' Value/ SCR(%)	Shear test (Cu) △ Field / Sensitivity (S) □ Lab; ○ Water content (%); Atterberg limits (%) W_p W_l; ● "N" Value (blows / 12 in.-30 cm)	PIEZOMETER/ STANDPIPE INSTALLATION
				GROUND SURFACE			%	KN/m3	%	%			10 20 30 40 50 60 70 80 90	
0				FILL : SAND and GRAVEL, trace brick and asphalt fragments, brown, moist, dense		SS1			100	6	18-23-20-12	43	○ ●	
1														
2														
	0.76	116.82		SILTY CLAY, trace sand and gravel, olive green, moist, compact		SS2			16	11	6-8-10-12	18	○ ●	
3	1.0													
4														
5	1.52	116.06		NATIVE : CI-SILTY CLAY, trace sand and gravel, grey shale fragments, grey, moist, very stiff to hard (residual soil)		SS3	6-8-58-28		100	19	6-7-10-17	17	○ ●	
6														
	2.0													
7														
8						SS4			100	13	15-50/ 100mm	50/ 100mm	○	
	2.53	115.05		CI-SANDY SILTY CLAY, grey, moist, hard										
9														
10	3.0					SS5	0-29-47-24		100	18	30-50/ 75mm	50/ 75mm	○	
11														
	3.51	114.07		SHALE-BEDROCK, highly weathered, thinly bedded, grey										
12														
	3.90	113.68		**END OF BOREHOLE :**		SS6			100	3	50/ 75mm	50/ 75mm	○	
13	4.0			**NOTE :**										
14				- Borehole terminated at 3.9 m bgs upon auger refusal within weathered bedrock										
15				- Borehole was open and dry upon completion										
16				- bgs denotes 'below ground surface'										
	5.0													
17														
18														
19														
	6.0													
20														
21														
22														
23	7.0													
24														

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REFERENCE No.: 12581540

BOREHOLE REPORT

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BOREHOLE No.: BH10-22

ELEVATION: 117.72 m

CLIENT: City of Mississauga

PROJECT: Geotechnical Investigation

LOCATION: 2524 Cawthra Road, Mississauga, Ontario

DESCRIBED BY: J. Bisson CHECKED BY:

DATE (START): 13 June 2022 DATE (FINISH): 13 June 2022

LEGEND

- SS - SPLIT SPOON
- ST - SHELBY TUBE
- VA - VANE SHEAR
- AU - AUGER PROBE
- ▼ - WATER LEVEL

NORTHING: 4827539.002 EASTING: 613081.235 ELEVATION: 117.72

Depth Feet	Depth Metres	Elevation (m) BGS	Stratigraphy	DESCRIPTION OF SOIL	State	Type and Number	Gravel Sand Silt Clay	Unit Weight	Recovery/ TCR(%)	Moisture Content	Blows per 15cm/ RQD(%)	'N' Value/ SCR(%)	Shear test (Cu) △ Field / Sensitivity (S) □ Lab; ○ Water content (%); Atterberg limits (%) W_p W_l; ● "N" Value (blows / 12 in.-30 cm)	PIEZOMETER/ STANDPIPE INSTALLATION
				GROUND SURFACE			%	KN/m3	%	%			10 20 30 40 50 60 70 80 90	
0				FILL : SAND and GRAVEL, trace brick and concrete fragments, grass, brown, moist, dense		SS1			100	8	15-22-24-12	46		▼
1														
2	0.76	116.96		SANDY SILTY CLAY, trace gravel, topsoil, shale and brick fragments, mottled brown/grey, moist, stiff		SS2	1-24-47-27		16	15	5-5-6-12	11		
3	1.0													
4														
5	1.52	116.20		NATIVE : CI-SANDY SILTY CLAY, trace gravel, shale fragments, brown/grey, moist, hard		SS3			100	5	10-50/ 125mm	50/ 125mm		
6														
7	2.0													
8						SS4	1-29-56-14		100	11	25-50/ 125mm	50/ 125mm		
9														
10	2.90 3.0	114.82		SHALE-BEDROCK, highly weathered, fine grained, thinly bedded, brown/grey		SS5			100	4	50/ 75mm	50/ 75mm		
	3.10	114.62		**END OF BOREHOLE :**										
11				**NOTE :**										
12				- Borehole terminated at 3.1 m bgs upon auger refusal within weathered bedrock										
13	4.0			- Groundwater encountered at 0.61 m bgs during drilling										
14				- Borehole was dry upon completion										
15				- bgs denotes 'below ground surface'										
16	5.0													
17														
18														
19	6.0													
20														
21														
22														
23	7.0													
24														

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REFERENCE No.: 12581540

BOREHOLE REPORT

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BOREHOLE No.: BH11-22

ELEVATION: 117.69 m

CLIENT: City of Mississauga

PROJECT: Geotechnical Investigation

LOCATION: 2524 Cawthra Road, Mississauga, Ontario

DESCRIBED BY: J. Bisson CHECKED BY:

DATE (START): 13 June 2022 DATE (FINISH): 13 June 2022

LEGEND

- SS - SPLIT SPOON
- ST - SHELBY TUBE
- VA - VANE SHEAR
- AU - AUGER PROBE
- ▼ - WATER LEVEL

NORTHING: 4827529.907 EASTING: 613095.891 ELEVATION: 117.69

Depth Feet	Depth Metres	Elevation (m) BGS	Stratigraphy	DESCRIPTION OF SOIL	State	Type and Number	Gravel Sand Silt Clay	Unit Weight	Recovery/ TCR(%)	Moisture Content	Blows per 15cm/ RQD(%)	'N' Value/ SCR(%)	Shear test (Cu) △ Field, Sensitivity (S) □ Lab; ○ Water content (%); W_p W_l Atterberg limits (%); ● "N" Value (blows / 12 in.-30 cm)	PIEZOMETER/ STANDPIPE INSTALLATION
				GROUND SURFACE			%	KN/m3	%	%			10 20 30 40 50 60 70 80 90	
0				FILL : SAND and GRAVEL, trace brick, concrete, asphalt and paper fragments, possible black staining, brown, moist, dense		SS1			100	6	14-15-19-18	34	○ ●	
2	0.76	116.93		SILTY CLAY, some sand, grey shale fragments, moist, firm		SS2			67	13	3-3-3-5	6	● ○	
5	1.52	116.17		NATIVE : CI-SILTY CLAY, some sand, brown, moist, very stiff to hard (residual soil)		SS3	0-15-57-28		79	11	9-8-9-13	17	○ ●	
8						SS4			79	12	25-50/ 125mm	50/ 125mm	○	
10	3.0					SS5			82	11	12-50/ 125mm	50/ 125mm	○	
13	3.96					SS6			100	8	50/ 125mm	50/ 125mm	○	▼
13	4.0	113.73		SHALE-BEDROCK, highly weathered, thinly bedded, grey										
15	4.70	112.99				SS7			100	10	50/ 100mm	50/ 100mm	○	
16	5.0			**END OF BOREHOLE :** **NOTE :** - Borehole terminated at 4.7 m bgs upon auger refusal within weathered bedrock - Groundwater level measured at 3.96 m bgs upon completion - bgs denotes 'below ground surface'										
20	6.0													
23	7.0													

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REFERENCE No.: 12581540

BOREHOLE REPORT

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BOREHOLE No.: BH12-22

ELEVATION: 117.89 m

CLIENT: City of Mississauga

PROJECT: Geotechnical Investigation

LOCATION: 2524 Cawthra Road, Mississauga, Ontario

DESCRIBED BY: J. Bisson CHECKED BY:

DATE (START): 10 June 2022 DATE (FINISH): 10 June 2022

LEGEND

- SS - SPLIT SPOON
- ST - SHELBY TUBE
- VA - VANE SHEAR
- AU - AUGER PROBE
- ▼ - WATER LEVEL

NORTHING: 4827561.813 EASTING: 613097.265 ELEVATION: 117.89

Depth Feet	Depth Metres	Elevation (m) BGS	Stratigraphy	DESCRIPTION OF SOIL	State	Type and Number	Gravel Sand Silt Clay	Unit Weight	Recovery/ TCR(%)	Moisture Content	Blows per 15cm/ RQD(%)	'N' Value/ SCR(%)	Shear test (Cu) △ Field □ Lab; Sensitivity (S); ○ Water content (%); Atterberg limits (%) W_p W_l; ● "N" Value (blows / 12 in.-30 cm)	PIEZOMETER/ STANDPIPE INSTALLATION
				GROUND SURFACE			%	KN/m3	%	%			10 20 30 40 50 60 70 80 90	
0	0.07	117.82		ASPHALT : 70 mm thick										
1				GRANULAR FILL : SAND and GRAVEL, brown, moist, compact		SS1			50	0	14-16-11-20	27	○ ●	
2	0.76	117.13												
3	1.0			NATIVE : CI-SANDY SILTY CLAY, trace gravel, grey shale fragments, brown, moist, very stiff to hard (residual soil)		SS2	4-20-52-24		50	18	6-8-11-43	19	○ ●	
4														
5														
6						SS3	6-25-48-21		58	10	6-17-24-29	41	○ ●	
7	2.0													
8	2.29	115.60		SHALE-BEDROCK, highly weathered, thinly bedded, grey		SS4			100	14	50/ 125mm	50/ 125mm	○	▼
9														
10	3.0					SS5			100	13	50/ 125mm	50/ 125mm	○	
11	3.20	114.69		**END OF BOREHOLE :** **NOTE :** - Borehole terminated at 3.2 m bgs upon auger refusal within weathered bedrock - Groundwater encountered 2.29 m bgs during drilling - Groundwater level measured at 2.71 m bgs upon completion - bgs denotes 'below ground surface'										
12														
13	4.0													
14														
15														
16	5.0													
17														
18														
19														
20	6.0													
21														
22														
23	7.0													
24														

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REFERENCE No.: 12581540

BOREHOLE REPORT

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BOREHOLE No.: BH13-22

ELEVATION: 117.74 m

CLIENT: City of Mississauga

PROJECT: Geotechnical Investigation

LOCATION: 2524 Cawthra Road, Mississauga, Ontario

DESCRIBED BY: J. Bisson CHECKED BY:

DATE (START): 10 June 2022 DATE (FINISH): 10 June 2022

LEGEND

- SS - SPLIT SPOON
- ST - SHELBY TUBE
- VA - VANE SHEAR
- AU - AUGER PROBE
- ▼ - WATER LEVEL

NORTHING: 4827548.397 EASTING: 613108.077 ELEVATION: 117.74

Depth Feet	Depth Metres	Elevation (m) BGS	Stratigraphy	DESCRIPTION OF SOIL	State	Type and Number	Gravel Sand Silt Clay	Unit Weight	Recovery/ TCR(%)	Moisture Content	Blows per 15cm/ RQD(%)	'N' Value/ SCR(%)	Shear test (Cu) △ Field / Sensitivity (S) □ Lab; ○ Water content (%); Atterberg limits (%) W_p W_l; ● "N" Value (blows / 12 in.-30 cm)	PIEZOMETER/ STANDPIPE INSTALLATION
				GROUND SURFACE			%	KN/m3	%	%			10 20 30 40 50 60 70 80 90	
0				FILL : SAND and GRAVEL, silt lense, brown, moist, loose		SS1			50	--	8-3-4-3	7	●	
1														
2														
	0.76	116.98		NATIVE : CI-SANDY SILTY CLAY, trace gravel, brown, moist, stiff to hard										
3	1.0					SS2	0-28-43-29		29	16	2-4-8-9	12	○ W_p W_l ●	
4														
5						SS3			82	14	7-50/ 125mm	50/ 125mm	○	
6														
	2.0													
7														
	2.29	115.45		SHALE-BEDROCK, highly weathered, thinly bedded, grey		SS4			100	8	27-50/ 125mm	50/ 125mm	○	
8														
9														
10	3.0													
	3.20	114.54		**END OF BOREHOLE :**		SS5			100	5	50/ 100mm	50/ 100mm	○	
11				**NOTE :**										
12				- Borehole terminated at 3.2 m bgs upon auger refusal within weathered bedrock										
13	4.0			- Borehole was dry upon completion										
14				- bgs denotes 'below ground surface'										
15														
16														
	5.0													
17														
18														
19														
	6.0													
20														
21														
22														
23	7.0													
24														

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REFERENCE No.: 12581540

BOREHOLE No.: BH14-22

ELEVATION: 118.14 m

BOREHOLE REPORT

CLIENT: City of Mississauga

PROJECT: Geotechnical Investigation

LOCATION: 2524 Cawthra Road, Mississauga, Ontario

DESCRIBED BY: J. Bisson CHECKED BY:

DATE (START): 10 June 2022 DATE (FINISH): 10 June 2022

LEGEND

- SS - SPLIT SPOON
- ST - SHELBY TUBE
- VA - VANE SHEAR
- AU - AUGER PROBE
- ▼ - WATER LEVEL

NORTHING: 4827580.487 EASTING: 613110.478 ELEVATION: 118.14

Depth Feet	Depth Metres	Elevation (m) BGS	Stratigraphy	DESCRIPTION OF SOIL	State	Type and Number	Gravel Sand Silt Clay	Unit Weight	Recovery/ TCR(%)	Moisture Content	Blows per 15cm/ RQD(%)	'N' Value/ SCR(%)	Shear test (Cu) △ Field □ Lab; Sensitivity (S); ○ Water content (%); Atterberg limits (%) W_p W_l; ● "N" Value (blows / 12 in.-30 cm)	PIEZOMETER/ STANDPIPE INSTALLATION
				GROUND SURFACE			%	KN/m3	%	%			10 20 30 40 50 60 70 80 90	
0	0.07	118.07		ASPHALT : 70 mm thick										
1	0.31	117.83		GRANULAR FILL : SAND and GRAVEL, brown, moist, compact		SS1			87	12	16-10-13-14	23	○ ●	
2				GRAVELLY SAND, some silt, grey, moist, compact to dense										
3	1.0					SS2	33-51-16-0		92	8	7-9-14-20	23	○ ●	
4														
5														
6						SS3			96	10	21-19-29-23	48	○	
7	2.0													
8	2.29	115.85		NATIVE : SM-GRAVELLY SILTY SAND, with low plasticity fines, trace clay, grey shale fragments, grey, wet, very dense (residual soil)		SS4	24-38-30-8		67	12	26-34-39-39	73	○ ●	▼
9														
10	3.0					SS5			100	12	17-50/ 100mm	50/ 100mm	○	
11	3.30	114.84		**END OF BOREHOLE :** **NOTE :** - Borehole terminated at 3.3 m bgs upon auger refusal within weathered bedrock - Groundwater level measured at 2.30 m bgs upon completion - bgs denotes 'below ground surface'										
12														
13	4.0													
14														
15														
16	5.0													
17														
18														
19	6.0													
20														
21														
22														
23	7.0													
24														

REFERENCE No.: 12581540

BOREHOLE REPORT

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BOREHOLE No.: MW1-22

ELEVATION: 117.49 m

CLIENT: City of Mississauga

PROJECT: Geotechnical Investigation

LOCATION: 2524 Cawthra Road, Mississauga, Ontario

DESCRIBED BY: J. Bisson CHECKED BY:

DATE (START): 6 June 2022 DATE (FINISH): 6 June 2022

LEGEND

- SS - SPLIT SPOON
- ST - SHELBY TUBE
- VA - VANE SHEAR
- AU - AUGER PROBE
- ▼ - WATER LEVEL

NORTHING: 4827482.812 EASTING: 613043.371 ELEVATION: 117.49

Depth Feet	Depth Metres	Elevation (m) BGS	Stratigraphy	DESCRIPTION OF SOIL	State	Type and Number	Gravel Sand Silt Clay	Unit Weight	Recovery/ TCR(%)	Moisture Content	Blows per 15cm/ RQD(%)	'N' Value/ SCR(%)	Shear test (Cu) △ Field, Sensitivity (S) □ Lab, ○ Water content (%), Atterberg limits (%) W_p W_l, ● "N" Value (blows / 12 in.-30 cm)	PIEZOMETER/ STANDPIPE INSTALLATION
				GROUND SURFACE			%	KN/m3	%	%			10 20 30 40 50 60 70 80 90	
0				FILL : SAND and GRAVEL, brick fragments, brown, moist, dense		SS1			83	4	9-16-14-23	30		0.15 m
2	0.61	116.88		SILT, trace clay, topsoil, brown, moist, loose		SS2			33	31	6-5-3-5	8		Holeplug
5	1.52	115.97		NATIVE : CI-SILTY CLAY, some sand, trace gravel, grey shale fragments, brown, moist, hard (residual soil)		SS3	4-14-56-26		71	16	6-11-21-22	32		2.13 m
8						SS4			62	13	2-14-42-50/ 75mm	56		
10	3.0													
10	3.20	114.29		SHALE-BEDROCK, fine grained, thinly bedded, grey		SS5			75	8	7-35-50/ 100mm	85/ 250mm		#10 Screen
13	4.0					SS6			100	5	50/ 75mm	50/ 75mm		3.96 m
13	4.10	113.39		**END OF BOREHOLE :** **NOTE :** - End of Borehole at 4.1 m bgs (auger refusal) - Monitoring well instaled at 3.96 m bgs - Groundwater level found at 2.96 m bgs on June 17, 2022 - bgs denotes 'below ground surface'										4.05 m
16	5.0													
20	6.0													
23	7.0													

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REFERENCE No.: 12581540

BOREHOLE No.: MW2-22

ELEVATION: 117.13 m

BOREHOLE REPORT

CLIENT: City of Mississauga

PROJECT: Geotechnical Investigation

LOCATION: 2524 Cawthra Road, Mississauga, Ontario

DESCRIBED BY: J. Bisson CHECKED BY:

DATE (START): 6 June 2022 DATE (FINISH): 6 June 2022

LEGEND

- SS - SPLIT SPOON
- ST - SHELBY TUBE
- VA - VANE SHEAR
- AU - AUGER PROBE
- ▼ - WATER LEVEL

NORTHING: 4827476.477 EASTING: 613070.485 ELEVATION: 117.13

Depth Feet	Depth Metres	Elevation (m) BGS	Stratigraphy	DESCRIPTION OF SOIL	State	Type and Number	Gravel Sand Silt Clay %	Unit Weight KN/m3	Recovery/ TCR(%)	Moisture Content %	Blows per 15cm/ RQD(%)	'N' Value/ SCR(%)	Shear test (Cu) △ Field, Sensitivity (S) □ Lab, ○ Water content (%), Atterberg limits (W_p W_l), ● "N" Value (blows / 12 in.-30 cm) 10 20 30 40 50 60 70 80 90	PIEZOMETER/ STANDPIPE INSTALLATION
				GROUND SURFACE			%	KN/m3	%	%				
0				FILL : SAND, trace silt, clayey silt lense, brown, moist, loose		SS1			50	14	2-3-4-3	7		0.31 m
2	0.76	116.37		SANDY SILTY CLAY, trace gravel, brick fragments, brown, moist, firm		SS2	5-25-39-31		67	27	2-2-3-7	5		Holeplug
5	1.52	115.61		NATIVE : CI-SANDY SILTY CLAY, shale fragments, brown, wet, hard (residual soil)		SS3	0-31-50-19		50	13	15-14-21-16	35		2.13 m
						SS4			42	10	38-50/ 100mm	50/ 100mm		
10	3.0 3.05	114.08		SHALE-BEDROCK, weathered, grey		SS5			38	6	25-50/ 75mm	50/ 75mm		#10 Screen
13	4.0 4.10	113.03				SS6			100	5	50/ 125mm	50/ 125mm		3.96 m 4.12 m
15				**END OF BOREHOLE :** **NOTE :** - End of Borehole at 4.1 m bgs (auger refusal) - Monitoring well installed at 3.96 m bgs - Groundwater encountered 1.52 m bgs during drilling - Groundwater level found at 1.94 m bgs on June 17, 2022 - bgs denotes 'below ground surface'									
16	5.0													
20	6.0													
23	7.0													

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REFERENCE No.: 12581540

BOREHOLE REPORT

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BOREHOLE No.: MW3-22

ELEVATION: 117.63 m

CLIENT: City of Mississauga

PROJECT: Geotechnical Investigation

LOCATION: 2524 Cawthra Road, Mississauga, Ontario

DESCRIBED BY: J. Bisson CHECKED BY:

DATE (START): 6 June 2022 DATE (FINISH): 6 June 2022

LEGEND

- SS - SPLIT SPOON
- ST - SHELBY TUBE
- VA - VANE SHEAR
- AU - AUGER PROBE
- ▼ - WATER LEVEL

NORTHING: 4827490.955 EASTING: 613069.095 ELEVATION: 117.63

Depth Feet	Depth Metres	Elevation (m) BGS	Stratigraphy	DESCRIPTION OF SOIL	State	Type and Number	Gravel Sand Silt Clay %	Unit Weight KN/m3	Recovery/ TCR(%)	Moisture Content %	Blows per 15cm/ RQD(%)	'N' Value/ SCR(%)	Shear test (Cu) △ Field, Sensitivity (S) □ Lab, ○ Water content (%), W_p W_l Atterberg limits (%), ● "N" Value (blows / 12 in.-30 cm) 10 20 30 40 50 60 70 80 90	PIEZOMETER/ STANDPIPE INSTALLATION
0				GROUND SURFACE										
1				FILL : SAND and GRAVEL, asphalt fragments, brown, moist, compact		SS1			50	4	15-11-11-22	22		0.31 m
2	0.61	117.02												Holeplug
3	1.0			SAND, trace silt, brick fragments, petroleum/hydrocarbon like odour, black staining, wet, compact		SS2			67	12	7-26-3-4	29		0.76 m
4														
5	1.52	116.11		NATIVE : CI-SILTY CLAY, some sand, trace gravel, brown, moist, stiff to hard (residual soil)		SS3			50	20	3-3-7-6	10		
6														
7	2.0													#10 Screen
8						SS4	5-18-49-28		42	14	7-12-36-50	48		
9														
10	3.0 3.05	114.58		SHALE-BEDROCK, weathered, grey		SS5			100	9	50/ 75mm	50/ 75mm		3.05 m
	3.10	114.53		**END OF BOREHOLE :**										3.14 m
11				**NOTE :**										
12				- Borehole terminated at 3.1 m bgs upon auger refusal within weathered bedrock										
13	4.0			- Monitoring well installed at 3.05 m bgs										
14				- Groundwater encountered 0.91 m bgs during drilling										
15				- Groundwater level found at 0.42 m bgs on June 17, 2022										
16	5.0			- bgs denotes 'below ground surface'										
17														
18														
19														
20	6.0													
21														
22														
23	7.0													
24														

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REFERENCE No.: 12581540

BOREHOLE REPORT

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BOREHOLE No.: MW4-22

ELEVATION: 117.96 m

CLIENT: City of Mississauga

PROJECT: Geotechnical Investigation

LOCATION: 2524 Cawthra Road, Mississauga, Ontario

DESCRIBED BY: J. Bisson CHECKED BY:

DATE (START): 10 June 2022 DATE (FINISH): 10 June 2022

LEGEND

- SS - SPLIT SPOON
- ST - SHELBY TUBE
- VA - VANE SHEAR
- AU - AUGER PROBE
- ▼ - WATER LEVEL

NORTHING: 4827566.176 EASTING: 613126.735 ELEVATION: 117.96

Depth (Feet)	Depth (Metres)	Elevation (m) BGS	Stratigraphy	DESCRIPTION OF SOIL	State	Type and Number	Gravel Sand Silt Clay (%)	Unit Weight (KN/m3)	Recovery/ TCR(%)	Moisture Content (%)	Blows per 15cm/ RQD(%)	'N' Value/ SCR(%)
0	0.05	117.91		TOPSOIL : 50 mm								
1				FILL : SAND, some gravel, brown, moist, dense		SS1			67	--	8-14-32-17	46
2	0.61	117.35		NATIVE : CI-SANDY SILTY CLAY, grey shale fragments, brown, moist, firm (residual soil)								
3	1.0					SS2	0-33-48-19		50	19	3-2-2-9	4
4												
5	1.52	116.44		CL-SILTY CLAY and SAND, trace gravel, grey shale fragments, grey, moist, hard								
6	2.0					SS3	5-37-48-10		92	9	9-15-18-14	33
7												
8						SS4			50	13	14-50/ 125mm	50/ 125mm
9												
10	3.0											
	3.05	114.91		SHALE-BEDROCK, highly weathered to weathered, thinly bedded, grey		SS5			50	7	33-50/ 75mm	50/ 75mm
11												
12												
13	4.0					SS6			94	7	11-32-50/ 100mm	82/ 250mm
14												
15						SS7			75	4	50/ 100mm	50/ 100mm
16	5.0											
17												
18	5.40	112.56		**END OF BOREHOLE :** **NOTE :** - End of Borehole at 5.4 m bgs (auger refusal) - Monitoring well installed at 5.34 m bgs - Groundwater level found at 2.94 m bgs on June 17, 2022 - bgs denotes 'below ground surface'		SS8			75	3	50/ 100mm	50/ 100mm
19												
20	6.0											
21												
22												
23	7.0											
24												

Shear test (Cu) △ Field □ Lab
Sensitivity (S)
○ Water content (%)
W_p W_l Atterberg limits (%)
● "N" Value (blows / 12 in.-30 cm)

10 20 30 40 50 60 70 80 90

PIEZOMETER/ STANDPIPE INSTALLATION

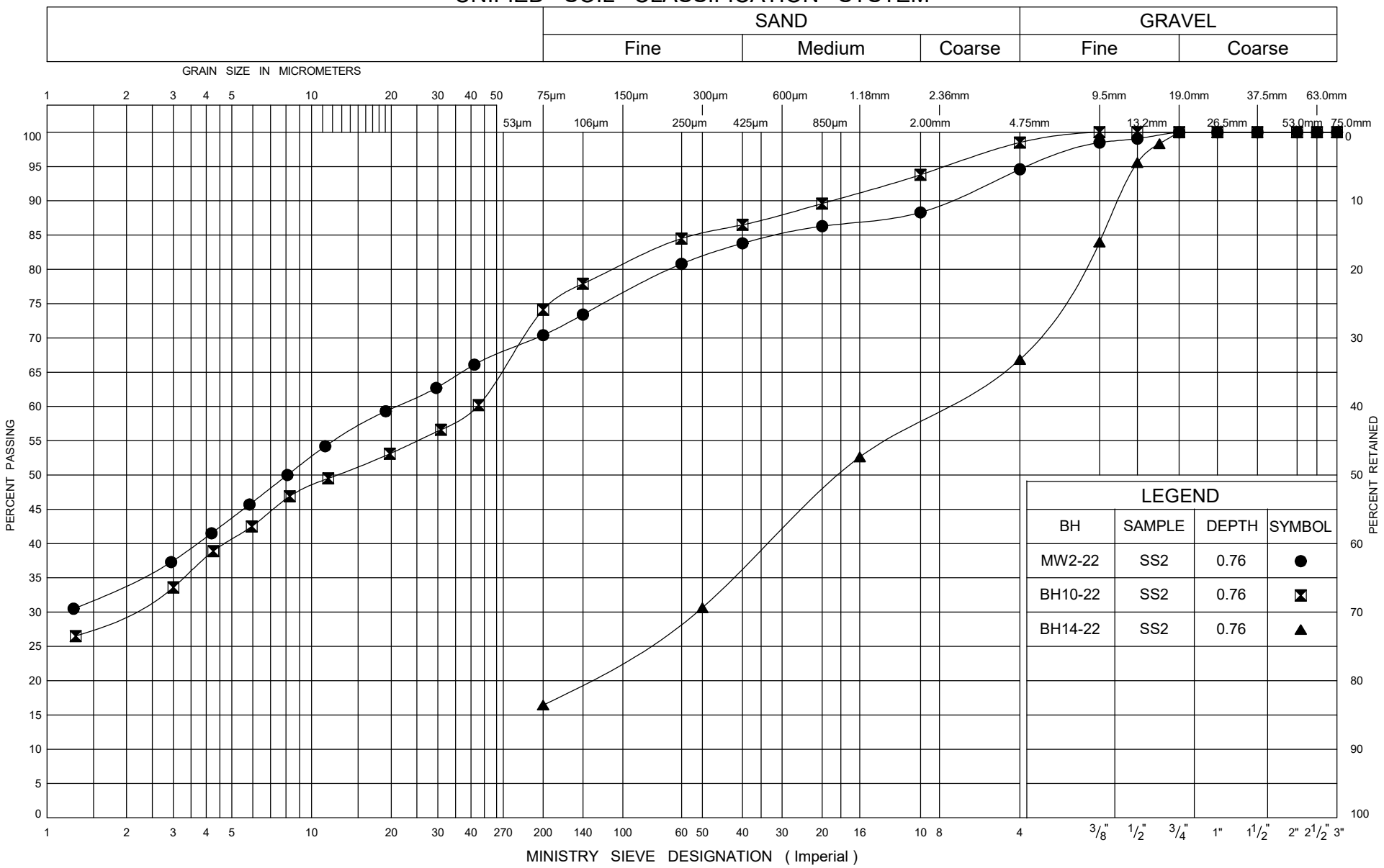
0.31 m
Holeplug
3.05 m
#10 Screen
5.34 m
5.44 m

File: \\GHDNET\GHD\CA\MISSISSAUGA\PROJECTS\662\12581540\TECH\GINT\LOG DATABASE\12581540_REV.GPJ Library File: GHD_GEOTECH_V10.GLB Report: SOIL LOG WITH GRAPH+WELL Date: 18/3/24

Appendix B

Geotechnical Laboratory Testing Results

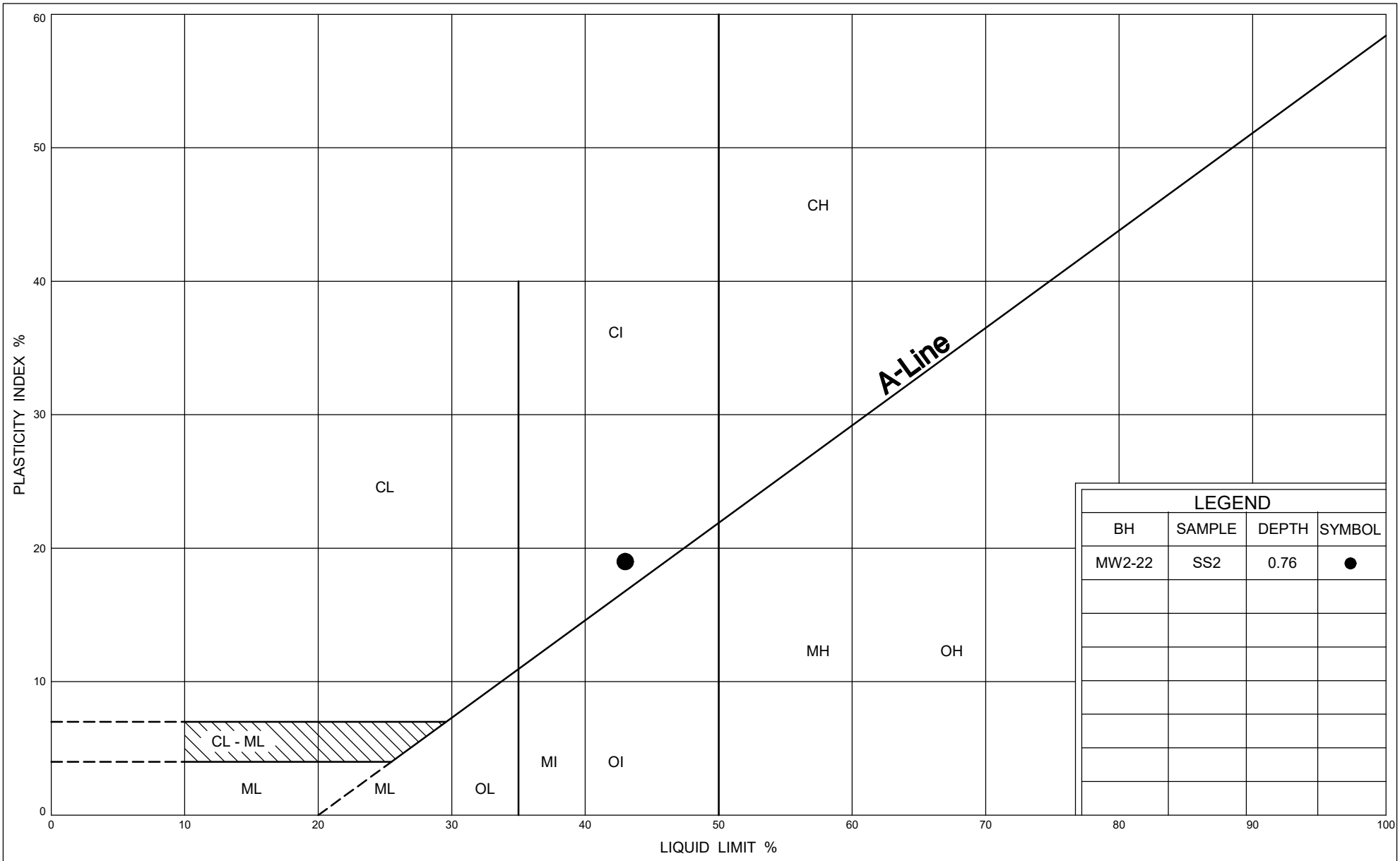
UNIFIED SOIL CLASSIFICATION SYSTEM



GRAIN SIZE DISTRIBUTION

FILL - Gravelly Sand / Sandy Silty Clay

Project No.:	12581540
Project Name:	Geotechnical Investigation
Figure No.:	1
Date: July 22, 2022	Prepared by: Checked by:

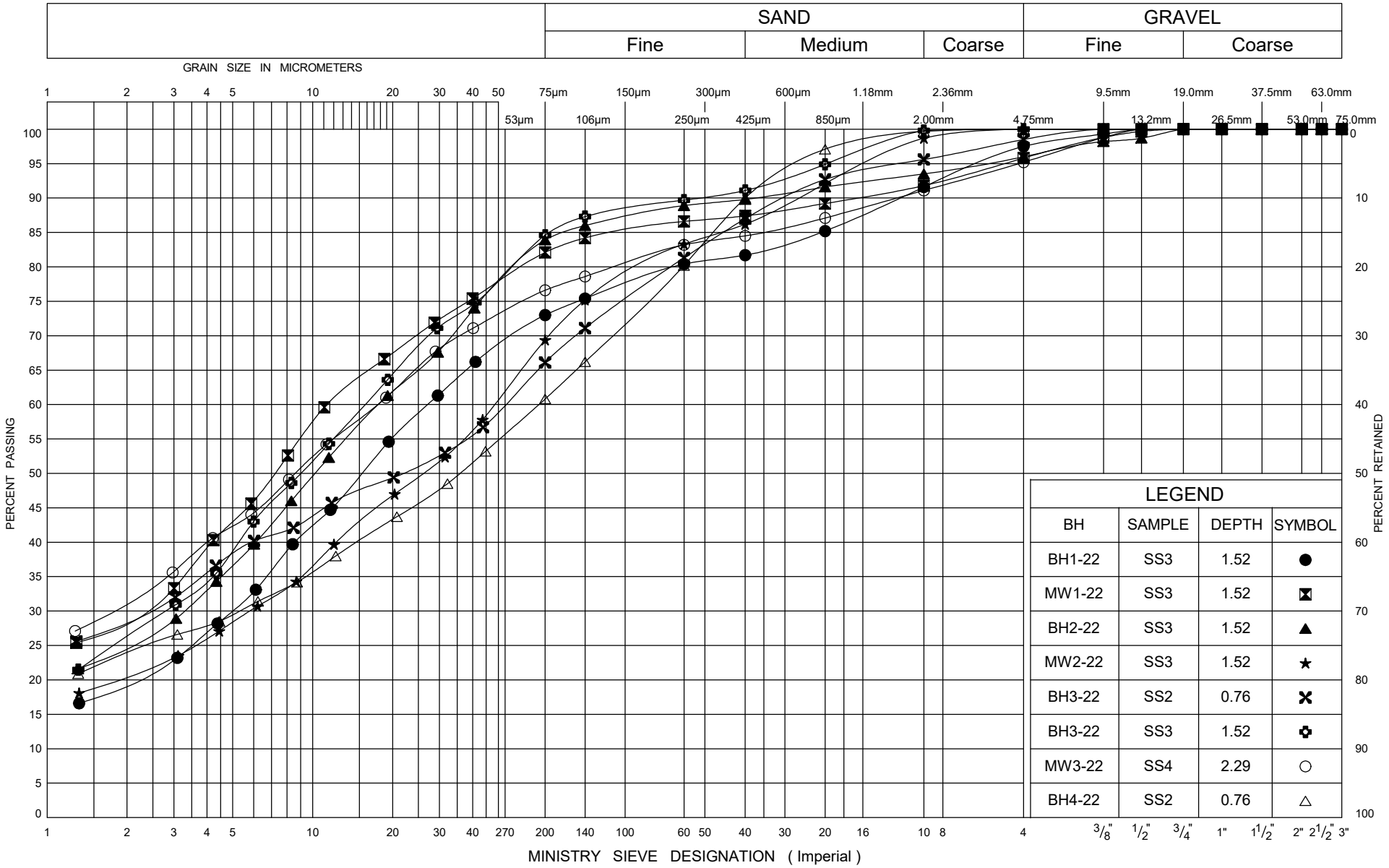


PLASTICITY CHART

FILL - Sandy Silty Clay

Project No.:	12581540
Project Name:	Geotechnical Investigation
Figure No.:	2
Date: July 22, 2022	Prepared by: Checked by:

UNIFIED SOIL CLASSIFICATION SYSTEM

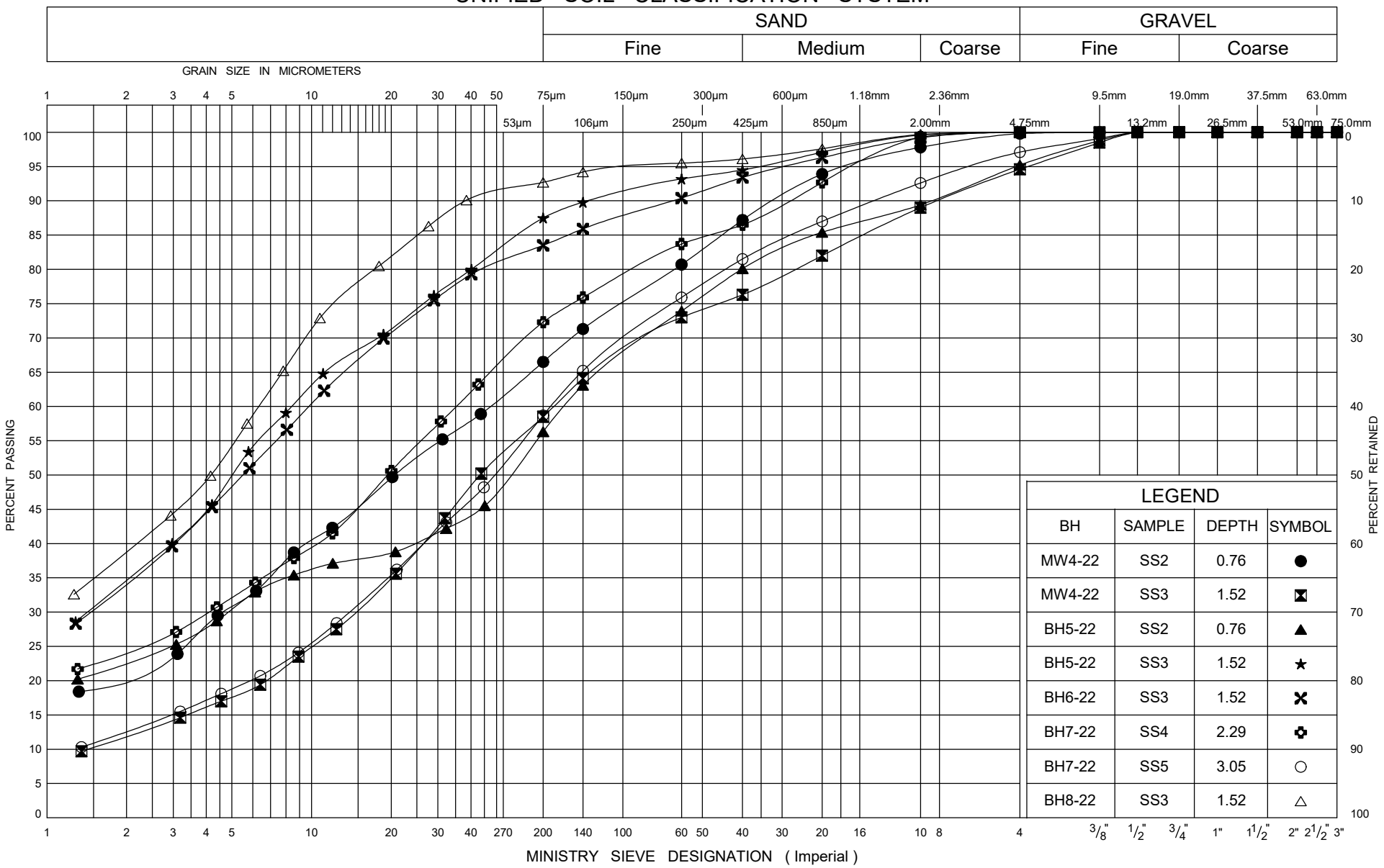


GRAIN SIZE DISTRIBUTION

SANDY SILTY CLAY / SILTY CLAY

Project No.:	12581540
Project Name:	Geotechnical Investigation
Figure No.:	3 - 1
Date: July 22, 2022	Prepared by: Checked by:

UNIFIED SOIL CLASSIFICATION SYSTEM

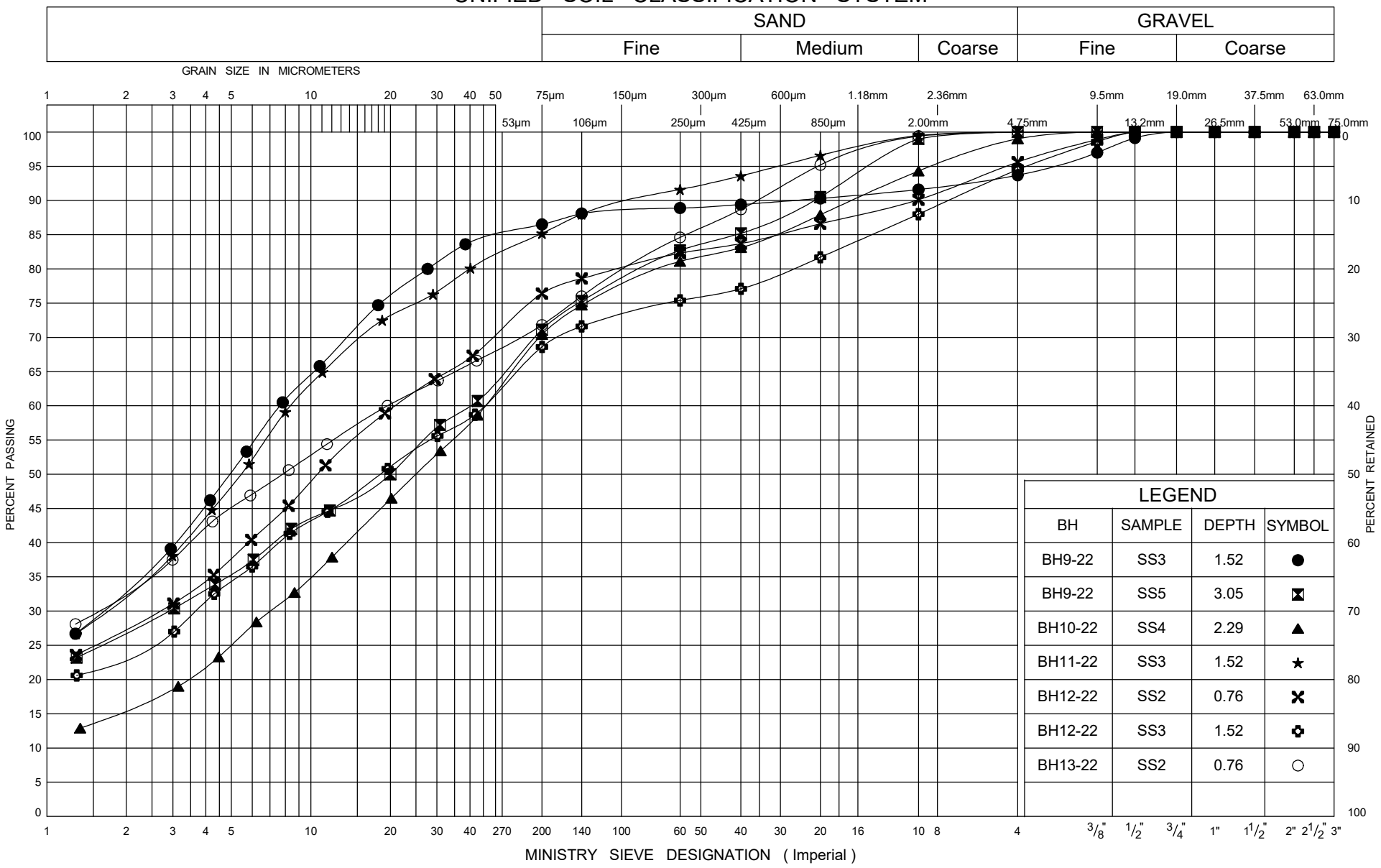


GRAIN SIZE DISTRIBUTION

SANDY SILTY CLAY / SILTY CLAY

Project No.:	12581540
Project Name:	Geotechnical Investigation
Figure No.:	3 - 2
Date: July 22, 2022	Prepared by: Checked by:

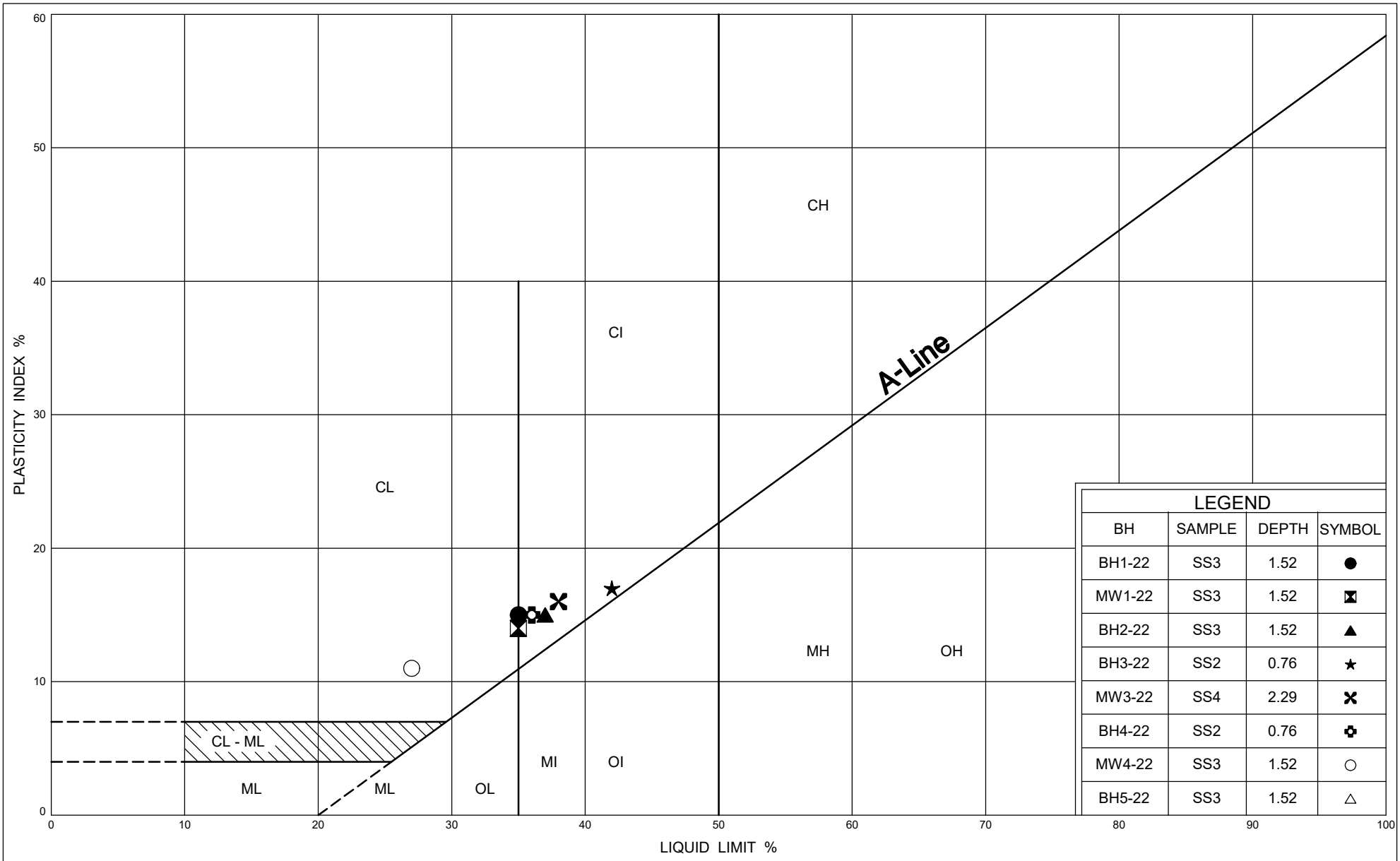
UNIFIED SOIL CLASSIFICATION SYSTEM



GRAIN SIZE DISTRIBUTION

SANDY SILTY CLAY / SILTY CLAY

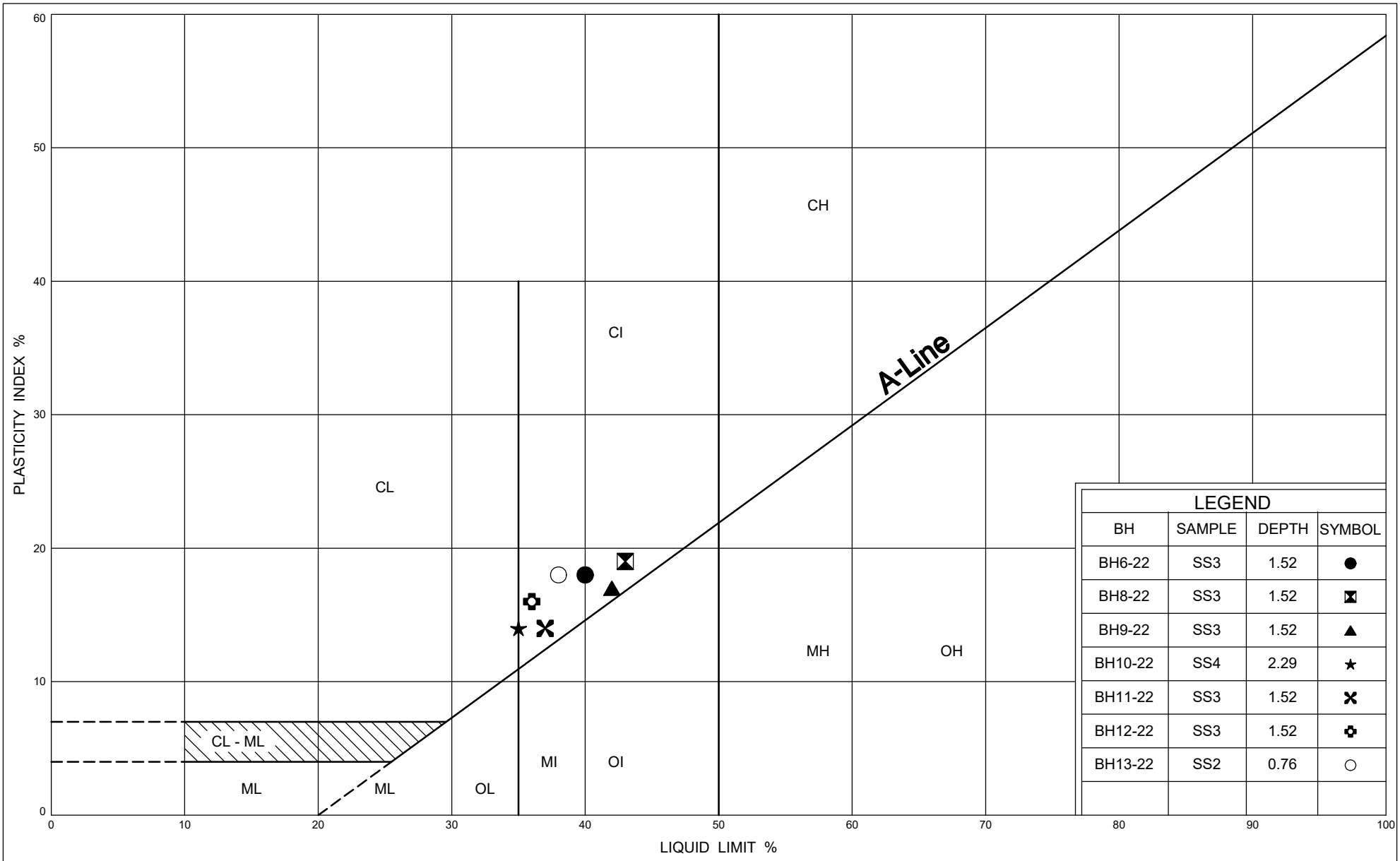
Project No.:	12581540
Project Name:	Geotechnical Investigation
Figure No.:	3 - 3
Date: July 22, 2022	Prepared by: Checked by:



PLASTICITY CHART

SANDY SILTY CLAY / SILTY CLAY

Project No.:	12581540
Project Name:	Geotechnical Investigation
Figure No.:	4 - 1
Date: July 22, 2022	Prepared by: Checked by:



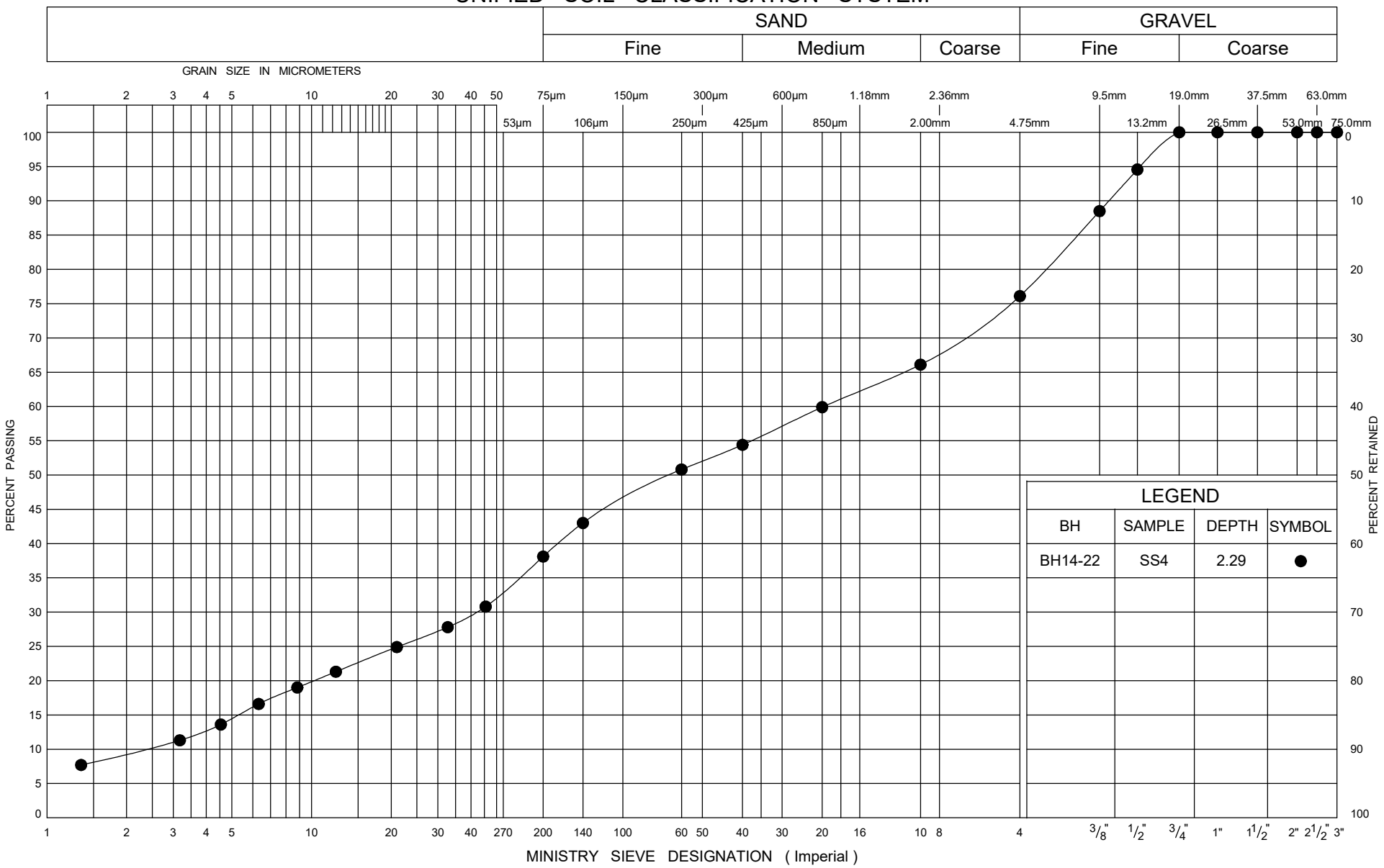
LEGEND			
BH	SAMPLE	DEPTH	SYMBOL
BH6-22	SS3	1.52	●
BH8-22	SS3	1.52	⊠
BH9-22	SS3	1.52	▲
BH10-22	SS4	2.29	★
BH11-22	SS3	1.52	✕
BH12-22	SS3	1.52	✿
BH13-22	SS2	0.76	○

PLASTICITY CHART

SANDY SILTY CLAY / SILTY CLAY

Project No.:	12581540
Project Name:	Geotechnical Investigation
Figure No.:	4 - 2
Date: July 22, 2022	Prepared by: Checked by:

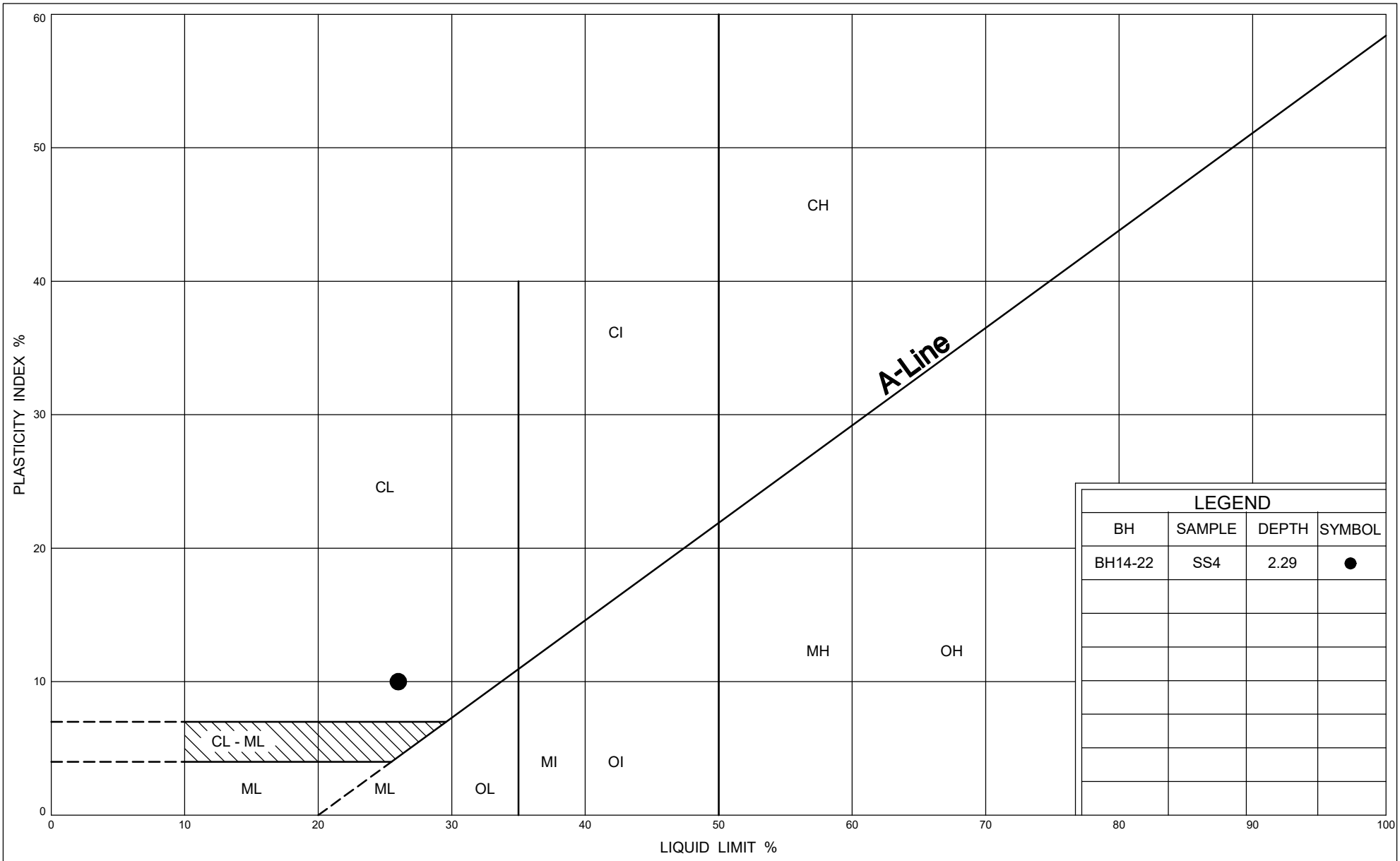
UNIFIED SOIL CLASSIFICATION SYSTEM



GRAIN SIZE DISTRIBUTION

GRAVELLY SILTY SAND

Project No.:	12581540
Project Name:	Geotechnical Investigation
Figure No.:	5
Date: July 22, 2022	Prepared by: Checked by:



PLASTICITY CHART

FINES CONTENT - GRAVELLY SILTY SAND

Project No.:	12581540
Project Name:	Geotechnical Investigation
Figure No.:	6
Date: July 22, 2022	Prepared by: Checked by:


GHD

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Canada
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GHD Reference No: 12581540-LTR-6

March 5, 2024

Katrina MacDonald
The Corporation of the City of Mississauga
201 City Centre Drive, 8F
Mississauga, Ontario
L5B 3A3

Risk Evaluation
2524 Cawthra Road
Mississauga, Ontario

Dear Ms. MacDonald,

1. Introduction

GHD has prepared this Risk Evaluation (RE) at the request of the City of Mississauga ("the City") for the property at 2524 Cawthra Road in Mississauga, Ontario (Property or Site). The Site is currently owned by the City and the City plans to redevelop the Site as a Fire Station.

The purpose of this RE is to assess the potential human health and ecological risks associated with exposure to soil and groundwater contamination previously identified on Site. The RE includes a contaminant of concern (COC) screening, an exposure pathway analysis, and the selection of risk-based component values (RBCVs) protective of human health and the environment consistent with the general methodology provided in Ontario Regulation (O. Reg.) 153/04. The RE is not intended to represent a Risk Assessment that would undergo a formal, comprehensive Ministry of Environment, Conservation and Parks (MECP) technical review under O. Reg. 153/04.

The letter is organized as follows:

– Section 2 presents a description of the Site.
– Section 3 presents the available analytical data that GHD used to support the RE.
– Section 4 presents the identification of the COCs for the Site.
– Section 5 presents the exposure pathway analysis.
– Section 6 presents the RE results.
– Section 7 presents the recommendations of the RE.

2. Site Description

The Site is identified as parcel identification number (PIN): 13345-0060 LT (2524 Cawthra Road). The Site is located in an area of the City of Mississauga developed primarily for residential and commercial use. The Site

consists of a parcel of land totaling approximately 0.62 hectares (1.5 acres). An automotive garage, approximately 450 square metres in size was previously located in the southwest corner of the Site but has now been demolished. A residential dwelling (approximate 120 square metres in size) was previously located in the southeast corner of the Site, and this building has also been demolished. A Site location sketch is presented in **Attachment A**.

Site access is provided by an asphalt paved driveway off Needham Lane. The exterior surfaces of the Site primarily consist of gravel. No water bodies are located on the Site, and Lake Ontario is located approximately 4.5 kilometres (km) south of the Property. The Site is not within or adjacent to an "area of natural significance" as defined by O. Reg. 153/04, and there are no areas of natural significance near the Site.

The lands surrounding the Site are used in the following ways:

North: The Site is bounded to the north by a vacant industrial/commercial property formerly occupied by Ryder System Inc. (705 & 709 Needham Lane), and beyond by a railway track, a RONA retail store (650 Dundas Street East), and then Dundas Street East. Based on a review of the historical ERIS records during GHD's Phase One Environmental Site Assessment (ESA), the RONA retail store was formerly occupied by a lumber company, a home centre, and other commercial/industrial buildings.

East: The Site is bounded to the east by Needham Lane and Hawley Collision Centre (2526 Cawthra Road). Cawthra Road and Franceschini Bros. Aggregates (a division of Lafarge Canada) is located beyond at 2531 Cawthra Road. A motel/shelter is located southeast of the Site.

South: The Site is bounded to the south by Hinspergers Poly Industries (645 Needham Lane), a plastic products manufacturer. A multi-tenant commercial building (2480 Cawthra Road) is located further south of the Site.

West: The Site is bounded to the west by CJ's Skatepark, and CJ Graphics located at 560 Hensall Circle. Based on a review of the historical records, this property was occupied by various paper and ink processing companies, including Iner City Papers Ltd., Unisource Canada Inc., Veritiv, C.J. Graphics Inc. in the past. Commercial/industrial properties on Tedlo Street are located beyond.

The future land use of the Site is community land use, in the form of a two-truck fire station. An architect's plan for the future Site use is presented in **Attachment B**.

2.1 Summary of Environmental Investigations

In June of 2022, GHD completed soil and groundwater investigations as part of a Phase Two ESA [1]. Sediment sampling was not completed as no water bodies or associated sediment are present at the Site. The following field investigation activities were completed to characterize the soil and groundwater quality:

– Advancement of eighteen (18) boreholes
– Instrumentation of four (4) of the boreholes as groundwater monitoring wells.
– Field screening of soil and groundwater for undifferentiated organic vapours.
– Hydraulic monitoring (groundwater level measurements and free product measurements).
– Laboratory analysis of 30 soil samples (including a total of 8 field duplicate samples), and 4 groundwater samples (including 1 field duplicate sample).

Soil and groundwater samples were submitted for laboratory analysis of one or more of the following: metals and inorganics, polycyclic aromatic hydrocarbons (PAHs), petroleum hydrocarbon fractions (PHC) F1 to F4, volatile organic compounds (VOCs) and polychlorinated biphenyls (PCBs). Inorganics analyses for soil samples included electrical conductivity (EC), pH, and sodium adsorption ratio (SAR). Inorganics analyses for groundwater samples included chloride.

[1] GHD, 2022. Phase Two Environmental Site Assessment, 2524 Cawthra Road, Mississauga, Ontario. November 15, 2022.

On July 24th, 2023, screening soil samples were collected from the base and sidewalls of an excavation completed by others in the vicinity of the former oil/water separator located in the northeast corner of the former automotive garage located on the southern portion of the Site. Select samples were submitted for laboratory analysis based on field evidence of impact. The preliminary analytes included PHC F2 to PHC F4.

On September 20th, 2023, GHD advanced nineteen boreholes to delineate the area of impact associated with the oil/water separator/tank excavation. Boreholes were stepped out in approximately 2-meter intervals adjacent to the north, west, south and east of the excavation, within locate limits and based on field evidence of impact. The investigative locations were advanced to depths of up to 2.7 metres below ground surface (mBGS) (refusal). Field evidence of impact (staining, odour and/or elevated photoionization detector [PID] readings) were observed during the drilling activities at BH101, BH103; and BH107 through BH114. Fourteen soil samples (including one field duplicate) were collected and submitted for analysis of PHCs F1 to F4; four of which were submitted for analysis of VOCs.

3. Analytical Data Considered in the Risk Evaluation

In the RE, GHD considered soil analytical data collected on June 6th through June 14th, 2022, as well as July 24th and September 20th, 2023 by GHD. The soil analytical data are summarized in **Attachment C**. GHD also considered groundwater analytical data collected on June 17th, 2022, which are also summarized in **Attachment C**.

The available environmental data from the above-summarized investigations were also divided into categories based on the proposed future development of the Site (see **Attachment B**) to allow consideration of surface treatment in the RE. These environmental samples were assumed to remain in place in their sampled locations for the purposes of the RE, as follows:

Table 1.A Division of Environmental Data by Proposed Surface Treatment

In Future Landscape Areas	Within Future Building Footprint	In Future Paved Areas
BH1-22, BH2-22, BH3-22, BH4-22, BH5-22, BH6-22, BH14-22, MW1-22, MW2-22, MW3-22, North Wall (02), East Wall (03), South Wall (06), West Wall (07), Floor (09), Floor (10), BH104-23, BH106-23, BH111-23, BH112-23, BH112, BH115, BH117, BH118, BH119, BH120	BH10-22, BH11-22, BH12-22, BH13-22	BH7-22, BH8-22, BH9-22, MW4-22, BH113

4. Identification of Contaminants of Concern (COCs)

4.1 Selection of Applicable Site Condition Standards

The analytical results were assessed to the standards provided in the Ministry of the Environment (MOE), now known as the MECP document titled, "*Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act*", dated April 15, 2011 (MOE, 2011).

The Site is located in the City of Mississauga, where potable water is obtained from Lake Ontario; therefore, a non-potable groundwater condition was assumed for the Site. Grain size analysis was completed in the 2022 Phase Two ESA, and the soil was assumed to be medium- to fine-textured based on those results.

4.1.1 Soil pH

Based on the results of GHD's Phase Two ESA, the soil pH in surface soils (0 to 1.5 mBGS) was outside the acceptable range of 5 and 9, as outlined in Section 41 of O. Reg. 153/04. A total of 11 out of 18 submitted surface soil samples from the Phase Two ESA collected between 0 and 0.6 mBGS contained soil pH values ranging from 9.5 to 11.1. Vertical delineation of the elevated pH values was not achieved during the Phase Two ESA.

4.1.2 Species at Risk Habitat

GHD also reviewed the Natural Heritage Information Centre (NHIC) database to determine if threatened and endangered species could be present at the Site, or properties located within the vicinity of the Site. According to the Committee on the Status of Endangered Wildlife in Canada (COSEWIC) and Species at Risk in Ontario (SARO) four threatened and/or endangered species have been identified within the vicinity of the Site:

– Eastern milksnake (*Lampropeltis 4ection4um*) – The NHIC database identified the eastern milksnake as a species of special concern for COSEWIC and not at risk for SARO. This snake's primary prey is mice, and they favour open habitats such as rocky outcrops, fields, and forest edges (Ontario Nature, 2023)[2].
– Eastern wood-pewee (*Contopus virens*) – The NHIC database identified the eastern wood-pewee as a species of special concern. This small insectivorous bird lives in the mid-canopy layer of forest clearings and in the edges of deciduous and mixed forests (MECP, 2021)[3].
– Henslow's sparrow (*Ammodramus henslowii*) – The NHIC database identified the Henslow's sparrow as an endangered species. The Henslow's sparrow is a migratory species and in Ontario lives in open fields with tall grasses, flowering plants, and a few scattered shrubs (MECP, 2021)[4]. Steep declines in the population of the Henslow's sparrow since the 1960s have wiped out this bird as a breeding species in Ontario. However, some are still observed at migration hotspots (i.e., Point Pelee National Park) or at selected locations within the province (MECP, 2021).
– Wood Thrush (*Hylocichla mustelina*) – The NHIC database identified the wood thrush as a threatened species. Wood thrushes are medium sized songbirds that forage for food in leaf litter or on semi-bare ground. They feed on larval and adult insects as well as plant material (MECP, 2023)[5]. The Wood thrush live in mature deciduous and mixed forests, with a preference for large forests (MECP, 2023).

Given that the predominant Site cover is gravel at present, the Site is not expected to provide suitable habitat for these species.

4.1.3 Selected Site Condition Standards for Screening

Based on these considerations, the Site was conservatively treated as if it was "environmentally sensitive" as defined in O. Reg. 153/04, and the MECP Table 1: Full Depth Background Site Condition Standards (MECP Table 1 Standards) were applied in order to select COCs for the RE. This approach is acknowledged to be conservative for this Site, but this level of conservatism is considered to be appropriate for a high-level RE.

4.2 Selection of COCs

Table 1 presents the identification of soil COCs based on a comparison of the maximum concentrations and maximum detection limits to the MECP Table 1 Standards for soil. As presented in **Table 1**, the maximum detected concentrations of benzene, ethylbenzene, hexane, styrene, toluene, total xylenes, 1- and 2-methylnaphthalene, acenaphthene, acenaphthylene, anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene,

[2] https://ontarionature.org/programs/community-science/reptile-amphibian-atlas/milksnake/
[3] https://www.ontario.ca/page/eastern-wood-pewee
[4] https://www.ontario.ca/page/henslows-sparrow
[5] https://www.ontario.ca/page/wood-thrush

fluoranthene, fluorene, indeno(1,2,3-c,d)pyrene, naphthalene, phenanthrene, pyrene, antimony, arsenic, cadmium, chromium (total and hexavalent), cobalt, lead, mercury, molybdenum, nickel, vanadium, zinc, PHC F1, PHC F2, PHC F3, PHC F4, EC, and SAR were greater than their respective MECP Table 1 Standards, and therefore, were retained as soil COCs for further consideration in the RE.

Table 2 presents the identification of groundwater COCs based on a comparison of the maximum concentrations and maximum detection limits to the MECP Table 1 Standards for groundwater. As presented in **Table 2**, the maximum detected concentrations of ethylbenzene, antimony, arsenic, molybdenum, and vanadium were greater than their respective MECP Table 1 Standards, and therefore, were retained as groundwater COCs for further consideration in the RE.

5. Exposure Pathway Analysis

GHD selected RBCVs from MECP's Modified Generic Risk Assessment (MGRA) Model (Ministry of the Environment and Climate Change [MOECC], 2016)[6] that are protective of human and ecological health. Although the analytical data were screened against the MECP Table 1 Standards for COC selection, the MECP Table 1 Standards for soil are background values derived from the Ontario Typical Range values and are considered representative of typical province-wide background concentrations in soils that are not contaminated by point sources (MOE, 2011)[7]. These Standards are not useful for evaluating potential health risks to humans or ecological receptors as they are not based on RBCVs protective of human and ecological health. Therefore, the MECP RBCVs for human and common ecological receptors in this RE were selected from the MECP Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition (MECP Table 3 Standards) for industrial/commercial/community land use and medium- to fine-textured soil.

In addition, the groundwater table was measured during GHD's Phase Two ESA at depths ranging from 0.42 to 2.96 mBGS, which is less than the MECP default of 3 mBGS that is used to develop the MECP Table 3 Standards. To ensure that potential health risks due to vapour intrusion were not underestimated, the Site was conservatively treated as if a shallow water table were present at the Site, and the VOC parameters in groundwater were additionally assessed to the MECP Table 7: Generic Site Condition Standards for Shallow Soils in a Non-Potable Ground Water Condition (MECP Table 7 Standards).

The potentially complete human and ecological exposure pathways that were considered in the selection of the soil and groundwater RBCVs (with the corresponding MECP RBCV in parentheses) based on the proposed land use of the Site for industrial/commercial/community use are summarized as follows:

Human Exposure Pathways

– Outdoor worker direct contact exposure to soil (S2 Risk).
– Construction/utility worker direct contact exposure to soil (S3 Risk).
– Indoor worker exposure to volatile soil COCs migrating to indoor air (S-IA).
– Outdoor worker and construction/utility worker inhalation exposure to outdoor air (from soil) (S-OA).
– Free phase threshold for soil (FPT)
– Indoor worker exposure to volatile groundwater COCs migrating to indoor air (GW2 from MECP Table 7 Standards).

Ecological Exposure Pathways

– Direct contact with soil for plants and soil organisms (Plants & Soil Organisms).

[6] MOECC, 2016. Modified Generic Risk Assessment (MGRA) (Tier 2) Model (Version 2), dated November 1, 2016.

[7] MOE, 2011. Rationale for the Development of Soil and Ground Water Standards for Use at Contaminated Sites in Ontario. April 15, 2011.

– Soil and food ingestion for mammals and birds (Mammals & Birds).
– Soil leaching to groundwater discharging to surface water (S-GW3).
– Free phase threshold for soil (FPT)
– Groundwater discharging to surface water (GW3).

6. Risk Evaluation Results

Table 3 presents a summary of the soil RBCVs assuming industrial/commercial/community land use and compares these RBCVs to the maximum detected soil concentrations at the Site. COCs that exceeded MECP Table 1 Standards but not MECP Table 3 Standards were excluded from presentation in **Table 3** as they are not expected to pose potential risks to human health through any soil exposure pathways. Further consideration of potential human and ecological impacts associated with the elevated pH levels is provided in Section 6.9. **Table 4** presents a summary of the groundwater RBCVs and their comparison to maximum detected groundwater concentrations at the Site.

The results are summarized for each exposure pathway in the sections below.

6.1 Direct Contact with Soil for the Protection of Human Health (S2 Risk, S3 Risk)

Table 3 presents a comparison of the maximum soil concentrations to the soil RBCVs protective of direct contact exposure to soil for outdoor workers (S2 Risk) and construction/utility workers (S3 Risk).

6.1.1 Outdoor Worker

As indicated in **Table 3**, the maximum detected concentrations of benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, dibenzo(a,h)anthracene, indeno(1,2,3-c,d)pyrene, arsenic, and vanadium are greater than the soil RBCVs protective of direct contact exposure to soils for outdoor workers (S2 Risk). For arsenic, the S2 Risk RBCV derived by MECP was less than its MECP Table 1 Standard representing Ontario background concentrations, so the MECP Table 1 Standard has been used in place of the derived S2 Risk RBCV.

For all of the PAHs except benzo(a)pyrene, measured concentrations from only one soil sample exceeded the RBCV (a sample from BH11-22 taken from the surface to 0.60 mBGS). This sample location is located within the future building footprint, which will eventually serve as a barrier to accessing the soil in question. Therefore potential health risks due to direct contact with benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, dibenzo(a,h)anthracene, and indeno(1,2,3-c,d)pyrene in Site soils under the future land use scenario are not anticipated.

For benzo(a)pyrene, RBCV exceedances were observed in three surface soil samples. One was located in a future landscape area (BH4-22, surface to 0.6 mBGS), one was located within the future building footprint (BH11-22, surface to 0.6 mBGS), and one was located in the future paved area (BH8-22, surface to 0.6 mBGS). The proposed building and the pavement are considered sufficient to serve as barriers to potentially contaminated soil on the Site, so no potential health risks to outdoor workers due to benzo(a)pyrene exceedances are anticipated in these areas. However, potential health risks cannot be ruled out due to the presence of benzo(a)pyrene in the proposed landscape area.

For arsenic and vanadium, the number of samples exceeding their respective RBCVs is 6 and 3, respectively, all of which were sampled from surface soil. Arsenic exceedances were divided among proposed landscape (4 samples) and paved areas (2 samples), and vanadium exceedances were divided among proposed landscape (2 samples) and paved areas (1 sample). Based on these results, potential health risks to outdoor

workers cannot be ruled out due to the presence of arsenic and vanadium in future landscape areas, although paving is expected to provide barriers to exposure in those locations.

6.1.2 Construction/Utility Worker

As indicated in **Table 3**, the maximum detected concentrations of arsenic and vanadium in soil also exceeded the soil RBCVs protective of direct contact exposure to soils for construction/utility workers (S3 Risk). Four samples contained arsenic exceedances (3 in future landscape areas and 1 in the paved area) and three contained vanadium exceedances (2 in future landscape areas and 1 in the paved area). Potential health risks due to direct soil contact therefore cannot be ruled out for construction/utility workers who may work in these areas. In addition, construction workers who would be working to redevelop the Site into its proposed future use could be exposed to soils anywhere on the Site, and potential health risks for these workers cannot be ruled out across the Site.

6.2 Direct Contact with Soil for the Protection of Ecological Health (Plants & Soil Organisms)

Table 3 presents a comparison of the maximum soil concentrations to the soil RBCVs protective of direct contact exposure to soil for plants and soil organisms (Plants & Soil Organisms). As indicated in **Table 3**, measured concentrations of benz(a)anthracene (1 sample), indeno(1,2,3-c,d)pyrene (1 sample), phenanthrene (1 sample), arsenic (3 samples), vanadium (3 samples), zinc (1 sample), PHC F2 (5 samples), PHC F3 (1 sample), PHC F4 (14 samples), and SAR (2 samples) are greater than the soil RBCVs protective of direct contact exposure to soils for these terrestrial ecological receptors.

The single exceeding sample for the PAHs and zinc was from BH11-22 in the proposed building footprint, where plants and soil organisms would not be expected to be located. Two exceedances for PHC F2 and one for PHC F4 were measured in subsurface soil samples, below 1.5 mBGS and below the root zone of most ornamental plants. However, several of the RBCV exceedances were observed in surface soils in the proposed landscape areas, including all three for arsenic, two for vanadium, three for PHC F2, one for PHC F3, and seven for PHC F4, as well as one of the SAR exceedances. As such, potential health risks to plants and soil organisms in the future landscape area cannot be ruled out.

6.3 Direct Contact with Soil for the Protection of Ecological Health (Mammals & Birds)

Table 3 presents a comparison of the maximum soil concentrations to the soil RBCVs protective of direct contact exposure to soil for mammals and birds (Mammals & Birds). For lead and vanadium, the Mammals & Birds RBCV derived by MECP is less than their MECP Table 1 Standards representing soil background concentrations in Ontario, and the Table 1 Standards have been used in place of the derived Mammals & Birds RBCVs in this analysis.

As indicated in **Table 3**, measured concentrations of arsenic (1 sample), cadmium (4 samples), chromium (total; 1 sample), lead (1 sample), vanadium (5 samples), and zinc (3 samples) in surface soils are greater than the soil RBCVs protective of direct contact exposure to soils for wildlife ecological receptors.

Although several of the exceeding samples were present in the proposed paved area and within the building footprint, both of which would act as barriers to mammal and bird exposures, the majority of exceedances for these metals and metalloids were located in the future landscape areas. Potential health risks to birds and mammals due to these chemicals in proposed landscape areas can therefore not be ruled out.

6.4 Inhalation of Indoor Air (S-IA and GW2)

Table 3 presents a comparison of the maximum soil concentrations to the soil RBCVs protective of soil to indoor air (S-IA) based on indoor worker inhalation of indoor air. As shown in **Table 3**, measured

concentrations of PHC F2 in 2 samples were greater than the soil RBCV protective of indoor worker inhalation of indoor air. However, these samples were located in the future landscape area over 30 metres from the proposed building. Given that soil impacted with degradable compounds outside 15 metres of an enclosed structure are not considered indoor air concerns (MOE, 2013)[8], inhalation of indoor air containing COCs originating from soil by indoor workers in the future building is not expected to result in unacceptable potential health risks.

Table 4 presents a comparison of the maximum groundwater concentrations to the groundwater RBCVs protective of groundwater to indoor air (GW2) based on indoor worker inhalation of indoor air. As shown in **Table 4**, ethylbenzene is the only volatile groundwater COC, as antimony, arsenic, molybdenum, and vanadium are not volatile. The maximum measured ethylbenzene concentration is much less than its GW2 RBCV considering shallow groundwater (MECP Table 7 Standard). Therefore, inhalation of indoor air containing COCs originating from groundwater by indoor workers in the future building is not expected to lead to unacceptable potential health risks.

6.5 Inhalation of Outdoor Air (S-OA)

A comparison of the maximum soil concentrations to the soil RBCVs protective of inhalation of outdoor air (S-OA) is presented in **Table 3**. As shown in **Table 3**, all soil COCs have maximum detected concentrations less than the soil RBCV protective of outdoor air inhalation exposure. Therefore, based on the available data, inhalation of outdoor air (from soil) is not likely a health concern for outdoor workers or construction/utility workers at the Site.

6.6 Soil Leaching to Groundwater Discharging to Surface Water for the Protection of Aquatic Life (S-GW3)

Table 3 presents a comparison of the maximum soil concentrations to the soil RBCVs protective of aquatic life exposure to soil leaching to groundwater discharging to a nearby surface water body (S-GW3). As presented in **Table 3**, measured concentrations of acenaphthylene, anthracene, PHC F1, and PHC F2 are greater than the S-GW3 RBCVs protective of soil leaching to groundwater discharging to a surface water body. However, analyses of these four chemicals in groundwater indicated that all four were not detected in groundwater, indicating that leaching to nearby surface water is not a concern. Furthermore, adjusting the S-GW3 RBCVs to account for a 4.5 km travel distance to Lake Ontario using the MECP's Approved Model (MOECC 2016) eliminates both RBCV exceedances.

6.7 Groundwater Discharging to Surface Water for the Protection of Aquatic Life (GW3)

Table 4 presents a comparison of the maximum groundwater concentrations to the groundwater RBCVs protective of groundwater discharging to surface water for the protection of aquatic life (GW3). As shown in **Table 4**, none of the maximum concentrations of the groundwater COCs exceeded their respective GW3 RBCVs. Therefore, inhalation of indoor air containing COCs originating from groundwater by indoor workers in the future building is not expected to lead to unacceptable potential health risks for aquatic life.

6.8 Free Phase Threshold

Table 3 presents a comparison of the maximum soil concentrations to the soil RBCVs protective of the formation of free phase product, the presence of which would be considered a health risk for both human and ecological receptors. PHC F4 analyses in nine samples (8 surface, 1 subsurface) exceeded its RBCV for this process. PHC F4 is not volatile, so its RBCV exceedances are not expected to be sources of potential indoor air risk, and no visual evidence of free product has been observed during investigative activities on the Site,

[8] MOE, 2013. Draft Technical Guidance: Soil Vapour Intrusion Assessment. Ontario Ministry of the Environment. September 2013.

including in groundwater samples taken during GHD's Phase Two ESA. Four of the exceeding samples, however, are in surface samples from the proposed landscape area and four are in the future paved area or within the building footprint. Potential human and ecological health risks cannot be ruled out in future landscape locations where the Free Phase Threshold is exceeded.

6.9 pH Considerations

As indicated above, the Site has been treated as "environmentally sensitive" due to elevated pH in surface soil. The elevated pH measurements are largely present in the future landscape areas of the Site, although four are present within the future building footprint or in the proposed paved area. As such, potential health risks cannot be ruled out in the future landscape area of the Site due to elevated pH.

With respect to the potential for certain metals to leach from soils to groundwater at high pH, the groundwater discharging to surface water pathway has been evaluated above under GW3, and accounts for any potential metals leaching to groundwater and discharging to Lake Ontario.

7. Recommendations

Based on the available data, potential health risks cannot be ruled out for human and ecological direct contact with soil, as well as free phase formation and elevated pH, in future landscape areas if all environmental samples remain in the locations, from which they were sampled.

The majority of the RBCV exceedances identified for human and ecological receptors in the future landscape areas are present in surface soil. GHD recommends the following conceptual plan for management of the identified potential health risks:

1. One of the following options to protect outdoor workers present following redevelopment of the Site:
    a. A Health and Safety Plan (HASP) should be designed to reduce incidental ingestion of, and dermal contact with, soil, while working in the landscaped areas. Or,
    b. Removal of contaminated surface soil in areas that will end up being landscaped, and potentially regrading using a clean fill soil cap. The presence of a clean fill soil cap in the future landscape areas will also protect ecological receptors following the redevelopment of the Site and address potential risks from free phase formation and elevated pH in these areas.
2. To address the potential for free phase formation, one of the following two options is recommended: one possibility is the design of a separate HASP for construction workers who will be redeveloping the Site, as well as future construction/utility workers performing maintenance activities or utility repairs, that considers the potential for free phase formation. Alternatively, removal of the soils, in which the exceedances of the Free Phase Threshold RBCV have been observed, could be undertaken to remove the potential for health risks through possible contact with free phase hydrocarbons.

GHD notes that geotechnical considerations may require a revision to this plan, as the shallow soils on-Site may not be geotechnically suitable for building construction. If soils are to be moved from their original locations and reused on-Site, the recommended HASP for future construction/utility workers should be developed and followed by Site personnel, and development of a Soil Management Plan to complement the HASP is suggested so that on-Site soils can be systematically managed safely. Under these circumstances, placement of the impacted soils under a hard cap (such as asphalt pavement) or fill soil cover in the final development may be beneficial for potential health risk reduction.

8. Closing

We trust that this report meets your requirements at the present time. Should you have any questions or require any additional information, please do not hesitate to contact our office.

Regards

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Tables

Table 1

Summary of Soil Analytical Results and Screening of COCs
Risk Evaluation
2524 Cawthra Road, Mississauga, Ontario
The Corporation of the City of Mississauga

Parameters	Units	2011 MOE Standards			Maximum Measured Concentration	Selected as COC?	Comment
		Table 1 RPIICC [1]	Table 3 ICC[2]	Table 7 ICC[3]			
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	ug/g	0.05	0.11	0.11	Not Detected		Detection limit below Table 1 Standard
1,1,1-Trichloroethane	ug/g	0.05	12	12	Not Detected		Detection limit below Table 1 Standard
1,1,2,2-Tetrachloroethane	ug/g	0.05	0.094	0.094	Not Detected		Detection limit below Table 1 Standard
1,1,2-Trichloroethane	ug/g	0.05	0.11	0.11	Not Detected		Detection limit below Table 1 Standard
1,1-Dichloroethane	ug/g	0.05	21	21	Not Detected		Detection limit below Table 1 Standard
1,1-Dichloroethene	ug/g	0.05	0.48	0.48	Not Detected		Detection limit below Table 1 Standard
Ethylene dibromide	ug/g	0.05	0.05	0.05	Not Detected		Detection limit below Table 1 Standard
1,2-Dichlorobenzene	ug/g	0.05	8.5	8.5	Not Detected		Detection limit below Table 1 Standard
1,2-Dichloroethane	ug/g	0.05	0.05	0.05	Not Detected		Detection limit below Table 1 Standard
1,2-Dichloropropane	ug/g	0.05	0.68	0.68	Not Detected		Detection limit below Table 1 Standard
1,3-Dichlorobenzene	ug/g	0.05	12	12	Not Detected		Detection limit below Table 1 Standard
1,4-Dichlorobenzene	ug/g	0.05	0.84	0.84	Not Detected		Detection limit below Table 1 Standard
Methyl ethyl ketone	ug/g	0.5	88	88	Not Detected		Detection limit below Table 1 Standard
Methyl isobutyl ketone	ug/g	0.5	210	210	Not Detected		Detection limit below Table 1 Standard
Acetone	ug/g	0.5	28	28	Not Detected		Detection limit below Table 1 Standard
Benzene	ug/g	0.02	0.4	0.4	0.0794	COC	Maximum concentration above Table 1 Standard
Bromodichloromethane	ug/g	0.05	18	18	Not Detected		Detection limit below Table 1 Standard
Bromoform	ug/g	0.05	1.7	1.7	Not Detected		Detection limit below Table 1 Standard
Bromomethane (Methyl bromide)	ug/g	0.05	0.05	0.05	Not Detected		Detection limit below Table 1 Standard
Carbon tetrachloride	ug/g	0.05	1.5	1.5	Not Detected		Detection limit below Table 1 Standard
Chlorobenzene	ug/g	0.05	2.7	2.7	Not Detected		Detection limit below Table 1 Standard
Chloroform (Trichloromethane)	ug/g	0.05	0.18	0.18	Not Detected		Detection limit below Table 1 Standard
cis-1,2-Dichloroethene	ug/g	0.05	37	37	Not Detected		Detection limit below Table 1 Standard
cis/trans-1,3-Dichloropropene	ug/g	0.05	0.21	0.21	Not Detected		Detection limit below Table 1 Standard
Dibromochloromethane	ug/g	0.05	13	13	Not Detected		Detection limit below Table 1 Standard
Dichlorodifluoromethane (CFC-12)	ug/g	0.05	25	25	Not Detected		Detection limit below Table 1 Standard
Ethylbenzene	ug/g	0.05	19	19	0.408	COC	Maximum concentration above Table 1 Standard
Hexane	ug/g	0.05	88	88	1.1	COC	Maximum concentration above Table 1 Standard
Methyl tert butyl ether (MTBE)	ug/g	0.05	3.2	3.2	Not Detected		Detection limit below Table 1 Standard
Methylene chloride	ug/g	0.05	2	2	Not Detected		Detection limit below Table 1 Standard
Styrene	ug/g	0.05	43	43	0.125	COC	Maximum concentration above Table 1 Standard
Tetrachloroethene	ug/g	0.05	21	21	Not Detected		Detection limit below Table 1 Standard
Toluene	ug/g	0.2	78	78	0.393	COC	Maximum concentration above Table 1 Standard
trans-1,2-Dichloroethene	ug/g	0.05	9.3	9.3	Not Detected		Detection limit below Table 1 Standard
Trichloroethene	ug/g	0.05	0.61	0.61	Not Detected		Detection limit below Table 1 Standard
Trichlorofluoromethane (CFC-11)	ug/g	0.25	5.8	5.8	Not Detected		Detection limit below Table 1 Standard
Vinyl chloride	ug/g	0.02	0.25	0.25	Not Detected		Detection limit below Table 1 Standard
Xylenes (total)	ug/g	0.05	30	30	0.85	COC	Maximum concentration above Table 1 Standard
Semi-Volatile Organic Compounds							
1+2-Methylnaphthalene	ug/g	0.59	85	85	1.29	COC	Maximum concentration above Table 1 Standard
Acenaphthene	ug/g	0.072	96	96	1.96	COC	Maximum concentration above Table 1 Standard
Acenaphthylene	ug/g	0.093	0.17	0.17	0.57	COC	Maximum concentration above Table 1 Standard
Anthracene	ug/g	0.16	0.74	0.74	8.21	COC	Maximum concentration above Table 1 Standard
Benzo(a)anthracene	ug/g	0.36	0.96	0.96	17.6	COC	Maximum concentration above Table 1 Standard
Benzo(a)pyrene	ug/g	0.49	0.3	0.3	14.8	COC	Maximum concentration above Table 1 Standard
Benzo(b/j)fluoranthene	ug/g	0.47	0.96	0.96	15.8	COC	Maximum concentration above Table 1 Standard
Benzo(g,h,i)perylene	ug/g	0.68	9.6	9.6	6.16	COC	Maximum concentration above Table 1 Standard
Benzo(k)fluoranthene	ug/g	0.48	0.96	0.96	8.73	COC	Maximum concentration above Table 1 Standard
Chrysene	ug/g	2.8	9.6	9.6	15.4	COC	Maximum concentration above Table 1 Standard
Dibenz(a,h)anthracene	ug/g	0.16	0.1	0.1	2.28	COC	Maximum concentration above Table 1 Standard
Fluoranthene	ug/g	0.56	9.6	9.6	39.1	COC	Maximum concentration above Table 1 Standard
Fluorene	ug/g	0.12	69	69	3.74	COC	Maximum concentration above Table 1 Standard
Indeno(1,2,3-cd)pyrene	ug/g	0.23	0.95	0.95	7.76	COC	Maximum concentration above Table 1 Standard
Naphthalene	ug/g	0.09	28	28	0.958	COC	Maximum concentration above Table 1 Standard
Phenanthrene	ug/g	0.69	16	16	30.7	COC	Maximum concentration above Table 1 Standard
Pyrene	ug/g	1	96	96	29.6	COC	Maximum concentration above Table 1 Standard
Metals							
Antimony	ug/g	1.3	50	50	38.6	COC	Maximum concentration above Table 1 Standard
Arsenic	ug/g	18	18	18	406	COC	Maximum concentration above Table 1 Standard
Barium	ug/g	220	670	670	164		Maximum concentration below Table 1 Standard
Beryllium	ug/g	2.5	10	10	1.01		Maximum concentration below Table 1 Standard
Boron	ug/g	36	120	120	19.8		Maximum concentration below Table 1 Standard
Boron (hot water soluble)	ug/g	NA	2	2	1.57		Maximum concentration below Table 1 Standard
Cadmium	ug/g	1.2	1.9	1.9	4.42	COC	Maximum concentration above Table 1 Standard
Chromium	ug/g	70	160	160	176	COC	Maximum concentration above Table 1 Standard
Chromium VI (hexavalent)	ug/g	0.66	10	10	4.7	COC	Maximum concentration above Table 1 Standard
Cobalt	ug/g	21	100	100	21.2	COC	Maximum concentration above Table 1 Standard
Copper	ug/g	92	300	300	64.3		Maximum concentration below Table 1 Standard
Lead	ug/g	120	120	120	286	COC	Maximum concentration above Table 1 Standard
Mercury	ug/g	0.27	20	20	0.31	COC	Maximum concentration above Table 1 Standard
Molybdenum	ug/g	2	40	40	3.91	COC	Maximum concentration above Table 1 Standard
Nickel	ug/g	82	340	340	234	COC	Maximum concentration above Table 1 Standard
Selenium	ug/g	1.5	5.5	5.5	1.09		Maximum concentration below Table 1 Standard
Silver	ug/g	0.5	50	50	Not Detected		Detection limit below Table 1 Standard
Thallium	ug/g	1	3.3	3.3	0.373		Maximum concentration below Table 1 Standard
Uranium	ug/g	2.8	33	33	1.16		Maximum concentration below Table 1 Standard
Vanadium	ug/g	86	86	86	387	COC	Maximum concentration above Table 1 Standard
Zinc	ug/g	290	340	340	1310	COC	Maximum concentration above Table 1 Standard

Table 1

Summary of Soil Analytical Results and Screening of COCs
Risk Evaluation
2524 Cawthra Road, Mississauga, Ontario
The Corporation of the City of Mississauga

Parameters	Units	2011 MOE Standards			Maximum Measured Concentration	Selected as COC?	Comment
		Table 1 RPIICC [1]	Table 3 ICC[2]	Table 7 ICC[3]			
Polychlorinated Biphenyls (PCBs)							
Aroclor-1016 (PCB-1016)	ug/g	NV	NV	NV	Not Detected		Detection limit below Table 1 Standard
Aroclor-1221 (PCB-1221)	ug/g	NV	NV	NV	Not Detected		Detection limit below Table 1 Standard
Aroclor-1232 (PCB-1232)	ug/g	NV	NV	NV	Not Detected		Detection limit below Table 1 Standard
Aroclor-1242 (PCB-1242)	ug/g	NV	NV	NV	Not Detected		Detection limit below Table 1 Standard
Aroclor-1248 (PCB-1248)	ug/g	NV	NV	NV	Not Detected		Detection limit below Table 1 Standard
Aroclor-1254 (PCB-1254)	ug/g	NV	NV	NV	0.055		Maximum concentration below Table 1 Standard
Aroclor-1260 (PCB-1260)	ug/g	NV	NV	NV	0.064		Maximum concentration below Table 1 Standard
Aroclor-1262 (PCB-1262)	ug/g	NV	NV	NV	Not Detected		Detection limit below Table 1 Standard
Aroclor-1268 (PCB-1268)	ug/g	NV	NV	NV	Not Detected		Detection limit below Table 1 Standard
Total PCBs	ug/g	0.3	1.1	1.1	0.106		Maximum concentration below Table 1 Standard
Petroleum Hydrocarbons (PHCs)							
PHCs F1 (C6-C10)	ug/g	25	65	65	150	COC	Maximum concentration above Table 1 Standard
PHCs F2 (C10-C16)	ug/g	10	250	250	2000	COC	Maximum concentration above Table 1 Standard
PHCs F3 (C16-C34)	ug/g	240	2500	2500	2790	COC	Maximum concentration above Table 1 Standard
PHCs F4 (C34-C50)	ug/g	120	6600	6600	5450	COC	Maximum concentration above Table 1 Standard
PHCs F4 gravimetric - silica gel (GHH)	ug/g	120	6600	6600	15800	COC	Maximum concentration above Table 1 Standard
General Chemistry							
Conductivity	mS/cm	0.57	1.4	1.4	0.826	COC	Maximum concentration above Table 1 Standard
Cyanide, weak acid dissociable	ug/g	0.051	0.051	0.051	Not Detected		Detection limit below Table 1 Standard
Sodium adsorption ratio (SAR)	none	2.4	12	12	22.6	COC	Maximum concentration above Table 1 Standard

Notes:

(1)	Ontario Ministry of Environment (MOE) Table 1: Full Depth Background Site Condition Standards for Residential/Parkland/Institutional/Industrial/Commercial/Community Property Use, Apr
(2)	MOE Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition for Industrial/Commercial/Community Property Use with medium to fine textured soils
(3)	MOE Table 7: Generic Site Condition Standards for Shallow Soils in a Non-Potable Ground Water Condition for Industrial/Commercial/Community Property Use with medium to fine texture
mBGS	metres Below Ground Surface
ug/g	micrograms per gram
mS/cm	milliSiemens per centimetre
NV	No value

Table 2

Summary of Groundwater Analytical Results
Phase Two Environmental Site Assessment
2524 Cawthra Road, Mississauga, Ontario
The Corporation of the City of Mississauga

Parameters	Units	2011 MOE Standards			Maximum Measured Concentration	Selected as COC?	Comment
		Table 1 (1)	Table 3 ICC(2)	Table 7 ICC(3)			
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	ug/L	1.1	28	1.1	Not Detected		Detection limit below Table 1 Standard
1,1,1-Trichloroethane	ug/L	0.5	6700	23	Not Detected		Detection limit below Table 1 Standard
1,1,2,2-Tetrachloroethane	ug/L	0.5	15	0.5	Not Detected		Detection limit below Table 1 Standard
1,1,2-Trichloroethane	ug/L	0.5	30	0.5	Not Detected		Detection limit below Table 1 Standard
1,1-Dichloroethane	ug/L	0.5	3100	11	Not Detected		Detection limit below Table 1 Standard
1,1-Dichloroethene	ug/L	0.5	17	0.5	Not Detected		Detection limit below Table 1 Standard
1,2-Dibromoethane (Ethylene dibromide)	ug/L	0.2	0.83	0.2	Not Detected		Detection limit below Table 1 Standard
1,2-Dichlorobenzene	ug/L	0.5	9600	150	Not Detected		Detection limit below Table 1 Standard
1,2-Dichloroethane	ug/L	0.5	12	0.5	Not Detected		Detection limit below Table 1 Standard
1,2-Dichloropropane	ug/L	0.5	140	0.58	Not Detected		Detection limit below Table 1 Standard
1,3-Dichlorobenzene	ug/L	0.5	9600	7600	Not Detected		Detection limit below Table 1 Standard
1,4-Dichlorobenzene	ug/L	0.5	67	0.5	Not Detected		Detection limit below Table 1 Standard
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	400	1500000	21000	Not Detected		Detection limit below Table 1 Standard
4-Methyl-2-pentanone (Methyl isobutyl ketone)	ug/L	640	580000	5200	Not Detected		Detection limit below Table 1 Standard
Acetone	ug/L	2700	130000	100000	Not Detected		Detection limit below Table 1 Standard
Benzene	ug/L	0.5	430	0.5	Not Detected		Detection limit below Table 1 Standard
Bromodichloromethane	ug/L	2	85000	67000	Not Detected		Detection limit below Table 1 Standard
Bromoform	ug/L	5	770	5	Not Detected		Detection limit below Table 1 Standard
Bromomethane (Methyl bromide)	ug/L	0.89	56	0.89	Not Detected		Detection limit below Table 1 Standard
Carbon tetrachloride	ug/L	0.2	8.4	0.2	Not Detected		Detection limit below Table 1 Standard
Chlorobenzene	ug/L	0.5	630	140	Not Detected		Detection limit below Table 1 Standard
Chloroform (Trichloromethane)	ug/L	2	22	2	Not Detected		Detection limit below Table 1 Standard
cis-1,2-Dichloroethene	ug/L	20	17	1.6	Not Detected		Detection limit below Table 1 Standard
cis-1,3-Dichloropropene/trans-1,3-Dichloropro	ug/L	0.5	45	0.5	Not Detected		Detection limit below Table 1 Standard
Dibromochloromethane	ug/L	2	82000	65000	Not Detected		Detection limit below Table 1 Standard
Dichlorodifluoromethane (CFC-12)	ug/L	590	4400	3500	Not Detected		Detection limit below Table 1 Standard
Ethylbenzene	ug/L	0.5	2300	54	0.79	COC	Maximum concentration above Table 1 Standard
Hexane	ug/L	5	520	5	Not Detected		Detection limit below Table 1 Standard
Methyl tert butyl ether (MTBE)	ug/L	15	1400	15	Not Detected		Detection limit below Table 1 Standard
Methylene chloride	ug/L	5	5500	26	Not Detected		Detection limit below Table 1 Standard
Styrene	ug/L	0.5	9100	43	Not Detected		Detection limit below Table 1 Standard
Tetrachloroethene	ug/L	0.5	17	0.5	Not Detected		Detection limit below Table 1 Standard
Toluene	ug/L	0.8	18000	320	Not Detected		Detection limit below Table 1 Standard
trans-1,2-Dichloroethene	ug/L	1.6	17	1.6	Not Detected		Detection limit below Table 1 Standard
Trichloroethene	ug/L	0.5	17	0.5	Not Detected		Detection limit below Table 1 Standard
Trichlorofluoromethane (CFC-11)	ug/L	150	2500	2000	Not Detected		Detection limit below Table 1 Standard
Vinyl chloride	ug/L	0.5	1.7	0.5	Not Detected		Detection limit below Table 1 Standard
Xylenes (total)	ug/L	72	4200	72	0.89		Maximum concentration below Table 1 Standard
Semi-Volatile Organic Compounds							
1/2-Methylnaphthalene	ug/L	2	1800	1500	0.2		Maximum concentration below Table 1 Standard
Acenaphthene	ug/L	30	1700	17	0.132		Maximum concentration below Table 1 Standard
Acenaphthylene	ug/L	1.4	1.8	1	Not Detected		Detection limit below Table 1 Standard
Anthracene	ug/L	0.1	2.4	1	Not Detected		Detection limit below Table 1 Standard
Benzo(a)anthracene	ug/L	0.2	4.7	1.8	Not Detected		Detection limit below Table 1 Standard
Benzo(a)pyrene	ug/L	0.01	0.81	0.81	Not Detected		Detection limit below Table 1 Standard
Benzo(b/j)fluoranthene	ug/L	0.1	0.75	0.75	Not Detected		Detection limit below Table 1 Standard
Benzo(g,h,i)perylene	ug/L	0.2	0.2	0.2	Not Detected		Detection limit below Table 1 Standard
Benzo(k)fluoranthene	ug/L	0.1	0.4	0.4	Not Detected		Detection limit below Table 1 Standard
Chrysene	ug/L	0.1	1	0.7	Not Detected		Detection limit below Table 1 Standard
Dibenz(a,h)anthracene	ug/L	0.2	0.52	0.4	Not Detected		Detection limit below Table 1 Standard
Fluoranthene	ug/L	0.4	130	44	0.012		Maximum concentration below Table 1 Standard
Fluorene	ug/L	120	400	290	0.06		Maximum concentration below Table 1 Standard
Indeno(1,2,3-cd)pyrene	ug/L	0.2	0.2	0.2	Not Detected		Detection limit below Table 1 Standard
Naphthalene	ug/L	7	6400	7	0.218		Maximum concentration below Table 1 Standard
Phenanthrene	ug/L	0.1	580	380	Not Detected		Detection limit below Table 1 Standard
Pyrene	ug/L	0.2	68	5.7	Not Detected		Detection limit below Table 1 Standard

Table 2

Summary of Groundwater Analytical Results
Phase Two Environmental Site Assessment
2524 Cawthra Road, Mississauga, Ontario
The Corporation of the City of Mississauga

Parameters	Units	2011 MOE Standards			Maximum Measured Concentration	Selected as COC?	Comment
		Table 1 (1)	Table 3 ICC(2)	Table 7 ICC(3)			
Metals							
Antimony (dissolved)	ug/L	1.5	20000	16000	1.92	COC	Maximum concentration above Table 1 Standard
Arsenic (dissolved)	ug/L	13	1900	1500	304	COC	Maximum concentration above Table 1 Standard
Barium (dissolved)	ug/L	610	29000	23000	171		Maximum concentration below Table 1 Standard
Beryllium (dissolved)	ug/L	0.5	67	53	Not Detected		Detection limit below Table 1 Standard
Boron (dissolved)	ug/L	1700	45000	36000	373		Maximum concentration below Table 1 Standard
Cadmium (dissolved)	ug/L	0.5	2.7	2.1	0.017		Maximum concentration below Table 1 Standard
Chromium (dissolved)	ug/L	11	810	640	Not Detected		Detection limit below Table 1 Standard
Chromium VI (hexavalent) (dissolved)	ug/L	25	140	110	Not Detected		Detection limit below Table 1 Standard
Cobalt (dissolved)	ug/L	3.8	66	52	0.78		Maximum concentration below Table 1 Standard
Copper (dissolved)	ug/L	5	87	69	2.51		Maximum concentration below Table 1 Standard
Lead (dissolved)	ug/L	1.9	25	20	0.056		Maximum concentration below Table 1 Standard
Mercury (dissolved)	ug/L	0.1	2.8	0.1	Not Detected		Detection limit below Table 1 Standard
Molybdenum (dissolved)	ug/L	23	9200	7300	53.2	COC	Maximum concentration above Table 1 Standard
Nickel (dissolved)	ug/L	14	490	390	8.73		Maximum concentration below Table 1 Standard
Selenium (dissolved)	ug/L	5	63	50	0.548		Maximum concentration below Table 1 Standard
Silver (dissolved)	ug/L	0.3	1.5	1.2	Not Detected		Detection limit below Table 1 Standard
Sodium (dissolved)	ug/L	490000	2300000	1800000	399000		Maximum concentration below Table 1 Standard
Thallium (dissolved)	ug/L	0.5	510	400	0.034		Maximum concentration below Table 1 Standard
Uranium (dissolved)	ug/L	8.9	420	330	5.84		Maximum concentration below Table 1 Standard
Vanadium (dissolved)	ug/L	3.9	250	200	29.1	COC	Maximum concentration above Table 1 Standard
Zinc (dissolved)	ug/L	160	1100	890	4.9		Maximum concentration below Table 1 Standard
Polychlorinated Biphenyls (PCBs)							
Aroclor-1016 (PCB-1016)	ug/L	NV	NV	NV	Not Detected		Detection limit below Table 1 Standard
Aroclor-1221 (PCB-1221)	ug/L	NV	NV	NV	Not Detected		Detection limit below Table 1 Standard
Aroclor-1232 (PCB-1232)	ug/L	NV	NV	NV	Not Detected		Detection limit below Table 1 Standard
Aroclor-1242 (PCB-1242)	ug/L	NV	NV	NV	Not Detected		Detection limit below Table 1 Standard
Aroclor-1248 (PCB-1248)	ug/L	NV	NV	NV	Not Detected		Detection limit below Table 1 Standard
Aroclor-1254 (PCB-1254)	ug/L	NV	NV	NV	Not Detected		Detection limit below Table 1 Standard
Aroclor-1260 (PCB-1260)	ug/L	NV	NV	NV	Not Detected		Detection limit below Table 1 Standard
Aroclor-1262 (PCB-1262)	ug/L	NV	NV	NV	Not Detected		Detection limit below Table 1 Standard
Aroclor-1268 (PCB-1268)	ug/L	NV	NV	NV	Not Detected		Detection limit below Table 1 Standard
Total PCBs	ug/L	0.2	15	0.2	Not Detected		Detection limit below Table 1 Standard
Petroleum Hydrocarbons (PHCs)							
PHCs F1 (C6-C10)	ug/L	180	750	420	Not Detected		Detection limit below Table 1 Standard
PHCs F2 (C10-C16)	ug/L	150	150	150	Not Detected		Detection limit below Table 1 Standard
PHCs F3 (C16-C34)	ug/L	500	500	500	Not Detected		Detection limit below Table 1 Standard
PHCs F4 (C34-C50)	ug/L	500	500	500	Not Detected		Detection limit below Table 1 Standard
General Chemistry							
Chloride (dissolved)	mg/L	790000	2300	1800	784		Maximum concentration below Table 1 Standard
Cyanide, weak acid dissociable	ug/L	5	66	52	Not Detected		Detection limit below Table 1 Standard

Notes:

(1) Ontario Ministry of Environment (MOE) Table 1: Full Depth Background Site Condition Standards for Residential/Parkland/Institutional/Industrial/Commercial/Community Property Use, April 2011

(2) MOE Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition for Industrial/Commercial/Community Property Use with medium to fine textured soils, April 2011

(3) MOE Table 7: Generic Site Condition Standards for Shallow Soils in a Non-Potable Ground Water Condition for Industrial/Commercial/Community Property Use with medium to fine textured soils, April

ug/L	micrograms per litre
mg/L	milligrams per litre
mS/cm	milliSiemens per centimetre
s.u.	standard units
NV	No value
ND(0.50)	Not detected at the associated reporting limit indicated in brackets
-	Not analyzed

Table 3

Summary of Risk-Based Component Values for Soil COCs
Risk Evaluation
2524 Cawthra Road, Mississauga, Ontario
The Corporation of the City of Mississauga

Parameters	Units	Maximum Measured Concentration	MECP Table 3 Risk-Based Component Values (RBCVs)								
			Plants & Soil Org.	Mammals & Birds	Soil Contact S2 Risk	Soil Contact S3 Risk	Leaching S-GW3	Indoor Air S-IA	Indoor Air Odour	Outdoor Air	Free Phase Threshold
Acenaphthylene	ug/g	0.57			70	2600	0.17	71		180	4000
Anthracene	ug/g	8.21	40	470000	70	2600	0.74	1600		950	4300
Benzo(a)anthracene	ug/g	17.6	1.3		7	260	5.6E+11	11000		600	9200
Benzo(a)pyrene	ug/g	14.8	90	46000	0.7	17	4.2E+13	32000		68	9200
Benzo(b/j)fluoranthene	ug/g	15.8			7	260	8.6E+13	800000		3800	9200
Benzo(k)fluoranthene	ug/g	8.73	19		7	260	2.8E+13	970000		3800	9200
Chrysene	ug/g	15.4	18		70	2600	4E+11	270000		12000	9300
Dibenz(a,h)anthracene	ug/g	2.28			0.7	26	2.7E+13	4100000		790	9200
Fluoranthene	ug/g	39.1	230	120000	70	2600	45000	38000		4500	9200
Indeno(1,2,3-cd)pyrene	ug/g	7.76	0.95		7	260	9.5E+13	6400000		7300	9200
Phenanthrene	ug/g	30.7	16	36000			300				3500
Arsenic	ug/g	406	50	330	18	39					19000
Cadmium	ug/g	4.42	30	1.9	7.9	7.9					29000
Chromium	ug/g	176	630	160	240000	240000					18000
Lead	ug/g	286	1400	120	1000	1000					38000
Vanadium	ug/g	387	250	86	160	160					11000
Zinc	ug/g	1310	800	340	47000	47000					24000
PHCs F1 (C6-C10)	ug/g	150	320		47000	100000	65	570		15000	2600
PHCs F2 (C10-C16)	ug/g	2000	260		22000	48000	250	950		25000	3900
PHCs F3 (C16-C34)	ug/g	2790	2500		40000	260000					7200
PHCs F4 gravimetric - silica gel (GHH)	ug/g	15800	6600		42000	400000					8000
Sodium adsorption ratio (SAR)	none	22.6	12								

Notes:

ug/g	micrograms per gram
mS/cm	milliSiemens per centimetre
s.u.	standard units
Shaded Cells	Maximum measured concentration exceeds this RBCV

Table 4

Summary of Risk-Based Component Values for Groundwater COCs
Risk Evaluation
2524 Cawthra Road, Mississauga, Ontario
The Corporation of the City of Mississauga

Parameters	Units	Maximum Measured Concentration	Indoor Air (shallow GW) GW2	Leaching GW3
Ethylbenzene	ug/L	0.79	270	2300
Antimony (dissolved)	ug/L	1.92	NV	20000
Arsenic (dissolved)	ug/L	304	NV	1900
Molybdenum (dissolved)	ug/L	53.2	NV	9200
Vanadium (dissolved)	ug/L	29.1	NV	250

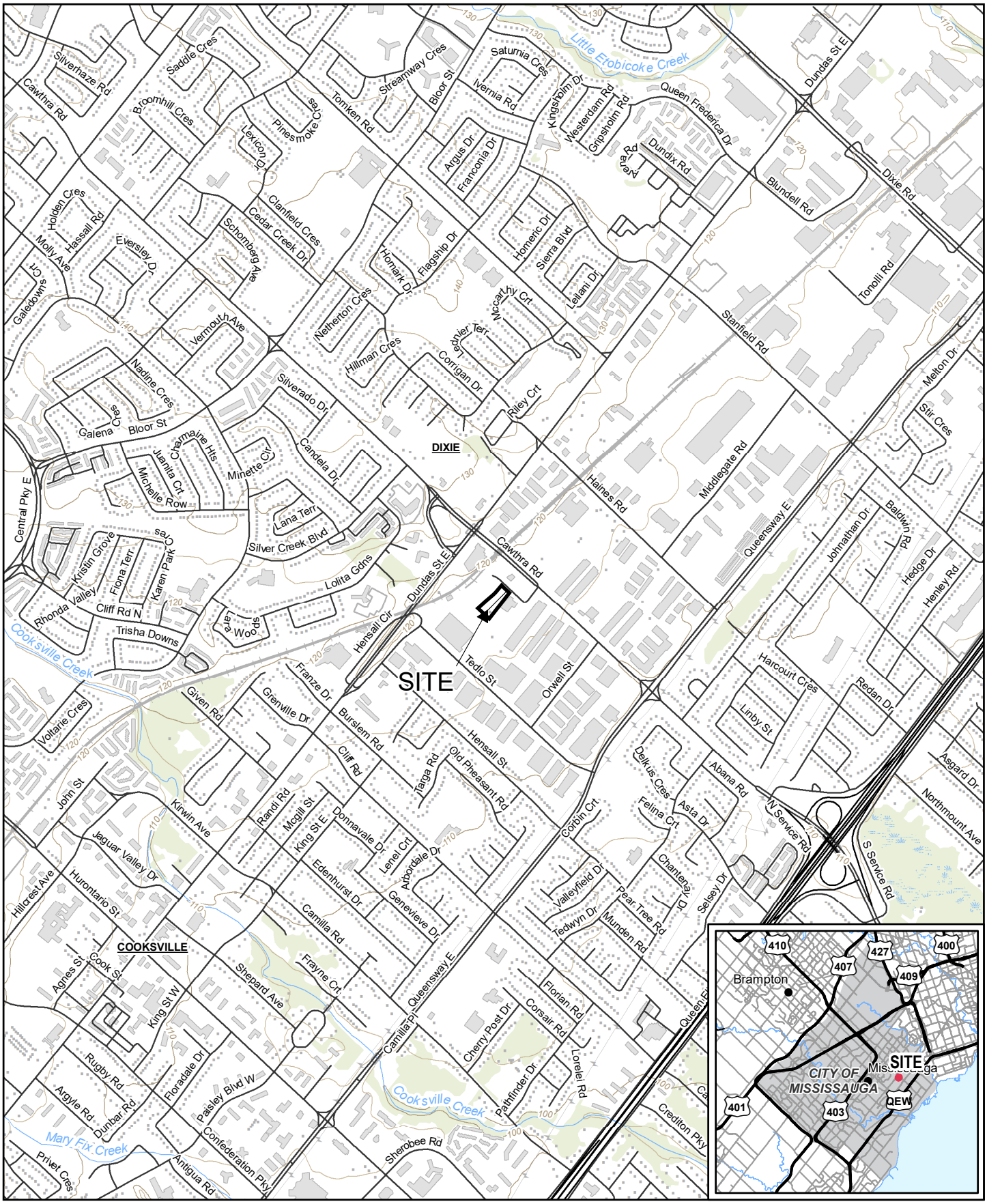
Notes:

ug/L	micrograms per litre
NV	Not volatile
Shaded Cells	Maximum measured concentration exceeds this RBCV

Attachments

Attachment A

Site Location Sketch



Paper Size ANSI A

0 130 260 390 520

Metres

Map Projection: Transverse Mercator
Horizontal Datum: North American 1983
Grid: NAD 1983 UTM Zone 17N

N

GHD

THE CORPORATION OF THE CITY OF MISSISSAUGA
2524 CAWTHRA ROAD, MISSISSAUGA, ONTARIO
SUPPLEMENTARY ENVIRONMENTAL INVESTIGATION

Project No. **12581540**
Revision No. **-**
Date **Nov 7, 2023**

SITE LOCATION MAP

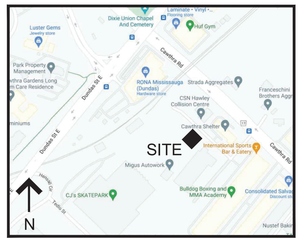
FIGURE 1

Q:\GIS\PROJECTS\12581000s\12581540\Layouts\LTR005\12581540_202311_LTR005_GIS001.mxd
Print date: 07 Nov 2023 - 08:58

Attachment B

Future Use Architectural Plan

KEY PLAN



SITE PLAN AND BUILDING STATISTICS

ZONING :	E2-131		
LEGAL DESCRIPTION :	PART OF LOT 11, CONCESSION 1, SOUTH OF DUNDAS STREET, CITY OF MISSISSAUGA, REGIONAL MUNICIPALITY OF PEEL		
PROPOSED OCCUPANCY:	TWO TRUCK FIRE STATION		
MUNICIPAL ADDRESS:	2524 CAWTHRA RD., MISSISSAUGA, ON		
COMMITTEE OF ADJUST.:	N/A		
RELATED FILE NUMBERS:	N/A		
LOT AREA	(5,919.9m²)		
LOT COVERAGE	Permitted/Req'd	Proposed	
BUILDING	N/A	993.88 m² (16.8%)	
MINIMUM LOT FRONTAGE	N/A		
MINIMUM SETBACK OF A BUILDING TO A LOT LINE	4.5m	22.95m FRONT 61.01m REAR 7.9m SIDE **1.2m SIDE** **(SUBJECT TO CofA SUBMISSION & APPROVAL)**	
MINIMUM SETBACK OF A BUILDING TO A LOT LINE ABUTTING A RESIDENTIAL ZONE	6.0m	N/A	
MAXIMUM BUILDING HEIGHT	N/A	7.36m	
MINIMUM LANDSCAPE BUFFER ABUTTING ALL LOT LINES	N/A	N/A	
MINIMUM SETBACK OF A PARKING AREA TO AN ABUTTING LOT IN A RESIDENTIAL ZONE	4.5m	N/A	
MINIMUM SETBACK FROM A RAILWAY RIGHT-OF-WAY	30.0m	N/A	
MINIMUM AISLE WIDTH	7.0m	7.0m	
MINIMUM DRIVEWAY WIDTH	2.6m	2.6m	
GROSS FLOOR AREA Ground Floor	Proposed 993.88 m²	(10,698sq.ft.)	
Total GFA	993.88 m²	(10,698 sq.ft.)	

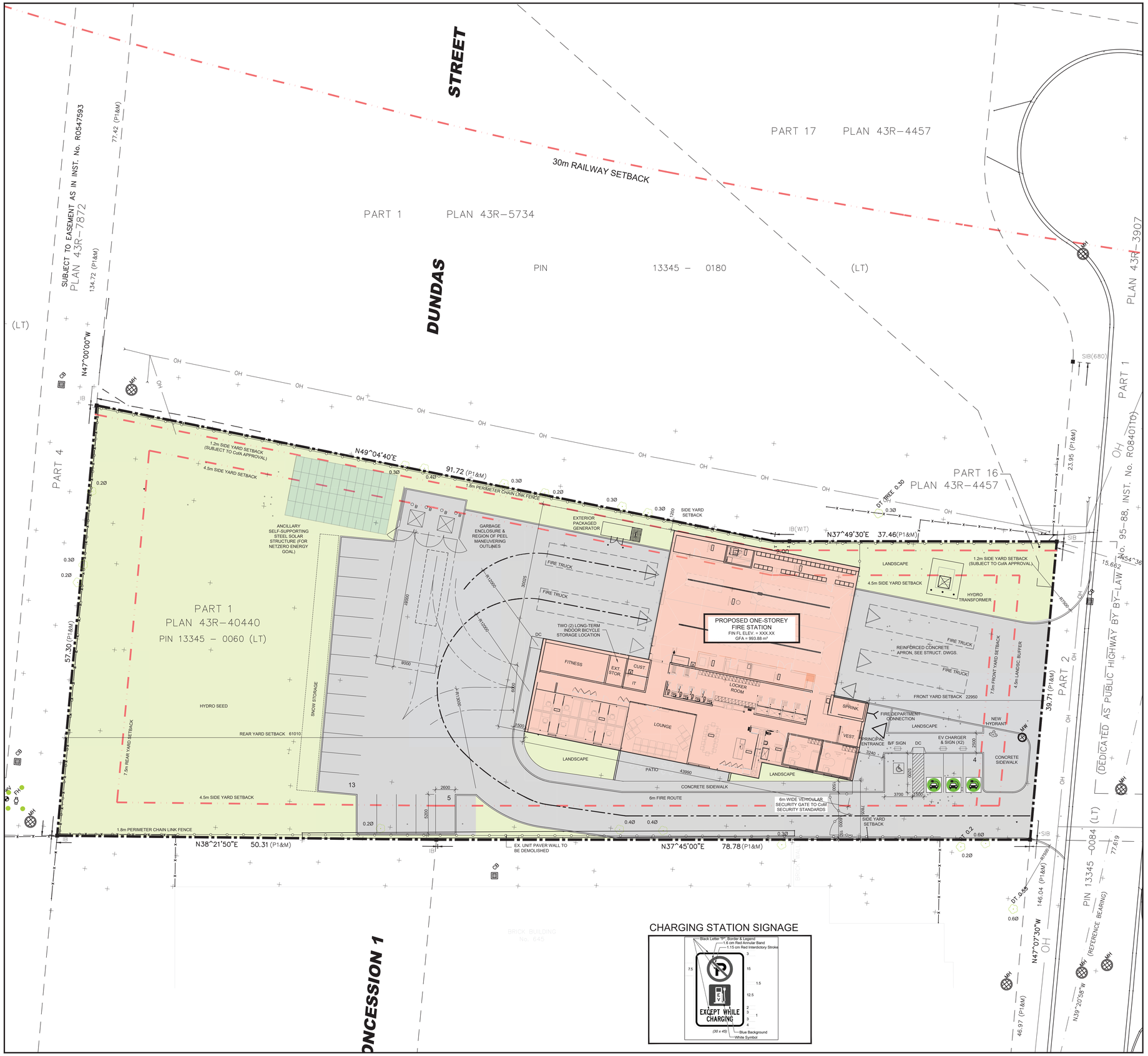
PARKING STATISTICS	Req'd	Proposed
Essential Emergency Loading Space	1/ staff on duty (2.0 min) N/A	22 N/A
BARRIER FREE SPACES (included in total count)	(0)	(1)
Total parking required = 0		22

FIRE ACCESS ROUTE NOTES

1. The fire route will be designated as per Bylaw 1036-81 as amended.
2. Fire Department access route shall be constructed of hard surface material such as asphalt, concrete or lockstone.
3. Fire Department access routes shall have a clear driving width of not less than 6 m except for a controlled access such as a fence gate which shall be not less than 4 m.
4. Fire Department access routes shall have turn around facilities for any dead-end portion of an access route exceeding 90 m (NOT APPLICABLE THIS SITE).
5. Fire Department access routes shall have an overhead clearance of not less than 5 m.
6. The fire access route will be designed to support a load of not less than 11,363 kg. per axle and have a change in gradient of not more than 1 in 12.5 over a minimum distance of 15 m.
7. Fire Department access routes shall have a centre line radius of not less than 12 m with respect to any change in direction of the access route. Maintain a minimum of 3 m clearance from the centre line to any obstruction.

GENERAL & TRAFFIC NOTES

1. I hereby certify that this drawing conforms in all respects to the site development plans. Include Architect or Engineer's Signature (if applicable) and Professional seal
2. The City of Mississauga requires that all working drawings submitted to the Building Division as part of an application for the issuance of a building permit shall be certified by the architect or engineer as being in conformity with the site development plan as approved by the City of Mississauga.
3. All exterior lighting will be directed onto the site and will not infringe upon the adjacent properties.
4. All rooftop mechanical units shall be screened from view by the applicant.
5. Parking spaces reserved for people with disabilities must be identified by a sign, installed at the applicant's expense, in accordance with the By-law Requirements and Building Code Requirements.
6. The applicant will be responsible for ensuring that all plans conform to Transport Canada's restrictions.
7. Grades will be met with a 33% maximum slope at the property lines and within the site.
8. All damaged areas are to be reinstated with topsoil and sod prior to the release of securities.
9. Signage shown on the site development plans is for information purposes only. All signs will be subject to the provisions of Sign by-law 0054-2002, as amended, and a separate sign application will be required through the Building Division.
10. Any fencing adjacent to municipal lands is to be located 15 cm (6.0 in.) inside the property line.
11. Only shielded lighting fixtures are permitted for all development, except for detached and semi-detached dwellings within 60 m of a residentially zoned property and must conform to the Engineer Certified Lighting Plan.
12. The Engineer Certified Lighting Plan must be signed by the Consulting Engineer.
13. The Owner covenants and agrees to construct and install shielded lighting fixtures on the subject lands, in conformity with the Site Plan and Engineer Certified Lighting Plan to the satisfaction of the City of Mississauga.
14. Where planting beds are located in landscaped areas on top of an underground parking structure, it is the responsibility of the applicant to arrange the coordination of the design of the underground parking structure with the Landscape Architect and the Consulting Engineering. Underground parking structures with landscaping area to be capable of supporting the following loads:- 15 cm of drainage gravel plus 40 cm topsoil for sod- 15 cm of drainage gravel plus 60 cm topsoil for shrubs- 15 cm of drainage gravel plus 90 cm for trees Or- Prefabricated sheet drain system* with a compressive strength of 1003 Kpa plus 40 cm topsoil for sod- Prefabricated sheet drain system* with a compressive strength of 1003 Kpa plus 60 cm topsoil for shrubs- Prefabricated sheet drain system* with a compressive strength of 1003 Kpa plus 90 cm topsoil for trees *Terradrain 900 or approved equal
15. The structural design of any retaining wall over 0.6 m in height or any retaining wall located on a property line is to be shown on the Site Grading plan for this project and is to be approved by the Consulting Engineer for the project.
16. Continuous 15 cm high barrier type poured concrete curbing will be provided between all asphalt and landscaped areas throughout the site.
17. All utility companies will be notified for locates prior to the installation of the hoarding that lies within the site and within the limits of the City boulevard area.
18. Note: If the final course of asphalt paving is delayed, a temporary lift of asphalt at ramps or curb cuts to provide barrier-free access will be provided.
19. All damaged or disturbed areas within the municipal right-of-way are to be reinstated at the Owner's expense.
20. All landscaping and grading within close proximity to the proposed access points is to be designed to ensure that adequate sight distances are available for all approaching and exiting motorists and pedestrians.
21. The portion of the driveway within the municipal boulevard is to be paved by the Owner.
22. Driveway accesses shall maintain a 1.5m setback from aboveground features such as utilities and trees.
23. Any above ground utilities located within 1.5m of a proposed access are to be relocated at the Owner's expense.
24. The cost for any/all road improvements required in support of this development application will be borne by the Owner.
25. The Owner shall make satisfactory arrangements with the Transportation and Works Department for the design, construction and payment of all costs associated with works necessary in support access to this site.
26. Any access to internal servicing shall be provided internally through the site.
27. All surface drainage will be self-contained, collected and discharged at a location to be approved prior to the issuance of a building permit.
28. The portions of the driveway within the municipal boulevard will be paved by the applicant.
29. At the entrances to the site, the municipal curb and sidewalk will be continuous through the driveway and a curb depression will be provided for each entrance.
30. All proposed curbing within the municipal boulevard area for the site is to suit as follows: i) For all single family residential properties including on street townhouses, all curbing is to stop at the property limit or the back of the municipal sidewalk, whichever is applicable; or ii) For all other proposals including Industrial, Commercial and Condominium developments, all entrances to the site are to be in accordance with OPSD 350.010 (save and accept Detail 'A' which shall match City of Mississauga Standard 2240.031).
31. All excess excavated material will be removed from the site.
32. The existing drainage pattern will be maintained except where noted.
33. The applicant will be required to contact all utility companies to obtain all required locates prior to the installation of hoarding within the municipal right-of-way.
34. The applicant will be responsible for the cost of any utility relocations necessitated by the site plan.
35. All internal curbs are to be standard 150mm dia. ridge curb and gutter as per O.P.S.D. 600.070.
36. All construction operations, including the erection of hoarding in accordance with the Ontario Occupational Health & Safety Act and regulations for construction projects, must be erected and then maintained throughout all phases of construction.
37. Should any works be required within the municipal right-of-way, a Road Occupancy Permit will be required. PUCC approval will be required. For further information please contact the PUCC/Permit Technologist, located at 3185 Mavis Road.



CHARGING STATION SIGNAGE

1 SP1 PROPOSED SITE PLAN
SCALE 1:200

SURVEY REFERENCE

BEARINGS ARE UTM GRID, ZONE 17, NAD83(CSRS)(2010) AND ARE DERIVED FROM THE OBSERVED REFERENCE POINTS ORP1 AND ORP2 AS DETERMINED BY LEICA NETWORK GPS STATIC OBSERVATIONS.

DISTANCES SHOWN ON THIS PLAN ARE GROUND AND CAN BE CONVERTED TO GRID BY MULTIPLYING BY THE COMBINED SCALE FACTOR OF 0.9997145.

OBSERVED REFERENCE POINTS SHOWN HAVE BEEN TIED TO THIS SURVEY TO THE URBAN ACCURACY PER SEC.14(2) OF ONTARIO REGULATION 216/10.

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

ALL FOUND MONUMENTS ARE (MNS) UNLESS SHOWN OTHERWISE.

LEGEND

- PROPOSED SIGNAGE
- FH FIRE HYDRANT
- MH MANHOLE
- CB CATCH BASIN
- MAIN ACCESSIBLE ENTRANCE/ EXIT TO SECTION 3.8 OF THE (OBC) ONTARIO BUILDING CODE
- SECONDARY ACCESSIBLE ENTRANCE/ EXIT TO SECTION 3.8 OF THE (OBC) ONTARIO BUILDING CODE
- OVERHEAD/ BI-FOLDING TRUCK BAY DOOR
- EX. CHAINLINK FENCE TO BE REMOVED
- CHAIN LINK FENCE (HEIGHT AS INDICATED)
- FOUNDATION WEEPING TILE, CONNECT TO NEAR BY CATCH BASIN (TYP.)
- UP UTILITY POLE
- BOLLARD & PVC SLEEVE AD 210
- BOREHOLE, SEE GEOTECHNICAL REPORTY
- FC CONDUIT FOR 'FUTURE' ELECTRIC CHARGING STATION, REF. ELECT. DWGS.
- LS LIGHT STANDARD
- WP WALL PACK, SEE ELECT, DWGS.
- DC DEPRESSED CURB

- CONCRETE WALKWAY, PAD OR APRON, SEE GEOTECH REPORT, LANDSCAPE DWGS. AND AD DETAILS
- HEAVY DUTY ASPHALT, SEE GEOTECH REPORT AND AD DETAILS
- MEDIUM DUTY ASPHALT, SEE GEOTECH REPORT AND AD DETAILS
- LINE PAINTING

NO	REVISIONS	DATE
1	ISSUED FOR SITE PLAN APPROVAL	23/08/08

NO	ISSUED	DATE

ONTARIO ASSOCIATION OF ARCHITECTS
23 08 09
PRISCILLA LADOUCEUR
LICENCE 6053

CITY OF MISSISSAUGA
FIRE STATION 124
(CIVIC DEVELOPMENT)

2524 CAWTHRA RD.
MISSISSAUGA, ON

LEGAL DESCRIPTION:
PART OF LOT 11, CONCESSION 1, SOUTH OF DUNDAS STREET, CITY OF MISSISSAUGA, REGIONAL MUNICIPALITY OF PEEL

MISSISSAUGA

300 City Centre Drive, Mississauga, Ontario, Canada L5B 3C1
tel: 905-615-3200

SITE PLAN FILE #:SP

PROPOSED SITE PLAN

HOSSACK & ASSOCIATES ARCHITECTS

4-2150 DUNWIN DRIVE
MISSISSAUGA, ONTARIO L5S. 5M8
Tel (905) 607-8284 Fax (905) 607-8290

SCALE 1:200	PROJECT 23116
DATE AUGUST 2023	
DRAWN BM	DRAWING SP1
CHECKED PL	
PRINT DATE	2022-09-09
REVIT FILE	T-23116

Attachment C

Soil and Groundwater Data

Table 6

Summary of Soil Analytical Results
Phase Two Environmental Site Assessment
2524 Cawthra Road, Mississauga, Ontario
The Corporation of the City of Mississauga

			Sample Location:	**BH1-22**	**BH2-22**	**BH3-22**	
			Sample Identification:	**S-12581540-220613-JB-BH1-22-0.0-0.6**	**S-12581540-220614-JB-BH2-22-0.0-0.3**	**S-12581540-220614-JB-BH3-22-0.0-0.6**	**S-12581540-220614-JB-BH3-22-0.0-0.6X**
			Sample Date:	**06/13/2022**	**06/14/2022**	**06/14/2022**	**06/14/2022**
			Sample Depth (mBGS):	**0.00-0.60**	**0.00-0.30**	**0.00-0.60**	**0.00-0.60**
			Lab Certificate of Analysis:	**WT2205639**	**WT2205639**	**WT2205639**	**WT2205639**
Parameters	**Units**	**2011 MOE Standards**					***Field Duplicate***
		Table 3 ICC[1]	**Table 7 ICC[2]**				
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	ug/g	0.11	0.11	ND(0.050)	ND(0.050)	ND(0.050)	-
1,1,1-Trichloroethane	ug/g	12	12	ND(0.050)	ND(0.050)	ND(0.050)	-
1,1,2,2-Tetrachloroethane	ug/g	0.094	0.094	ND(0.050)	ND(0.050)	ND(0.050)	-
1,1,2-Trichloroethane	ug/g	0.11	0.11	ND(0.050)	ND(0.050)	ND(0.050)	-
1,1-Dichloroethane	ug/g	21	21	ND(0.050)	ND(0.050)	ND(0.050)	-
1,1-Dichloroethene	ug/g	0.48	0.48	ND(0.050)	ND(0.050)	ND(0.050)	-
Ethylene dibromide	ug/g	0.05	0.05	ND(0.050)	ND(0.050)	ND(0.050)	-
1,2-Dichlorobenzene	ug/g	8.5	8.5	ND(0.050)	ND(0.050)	ND(0.050)	-
1,2-Dichloroethane	ug/g	0.05	0.05	ND(0.050)	ND(0.050)	ND(0.050)	-
1,2-Dichloropropane	ug/g	0.68	0.68	ND(0.050)	ND(0.050)	ND(0.050)	-
1,3-Dichlorobenzene	ug/g	12	12	ND(0.050)	ND(0.050)	ND(0.050)	-
1,4-Dichlorobenzene	ug/g	0.84	0.84	ND(0.050)	ND(0.050)	ND(0.050)	-
Methyl ethyl ketone	ug/g	88	88	ND(0.50)	ND(0.50)	ND(0.50)	-
Methyl isobutyl ketone	ug/g	210	210	ND(0.50)	ND(0.50)	ND(0.50)	-
Acetone	ug/g	28	28	ND(0.50)	ND(0.50)	ND(0.50)	-
Benzene	ug/g	0.4	0.4	ND(0.0050)	ND(0.0050)	ND(0.0050)	-
Bromodichloromethane	ug/g	18	18	ND(0.050)	ND(0.050)	ND(0.050)	-
Bromoform	ug/g	1.7	1.7	ND(0.050)	ND(0.050)	ND(0.050)	-
Bromomethane (Methyl bromide)	ug/g	0.05	0.05	ND(0.050)	ND(0.050)	ND(0.050)	-
Carbon tetrachloride	ug/g	1.5	1.5	ND(0.050)	ND(0.050)	ND(0.050)	-
Chlorobenzene	ug/g	2.7	2.7	ND(0.050)	ND(0.050)	ND(0.050)	-
Chloroform (Trichloromethane)	ug/g	0.18	0.18	ND(0.050)	ND(0.050)	ND(0.050)	-
cis-1,2-Dichloroethene	ug/g	37	37	ND(0.050)	ND(0.050)	ND(0.050)	-
cis-1,3-Dichloropropene	ug/g	NV	NV	ND(0.030)	ND(0.030)	ND(0.030)	-
cis/trans-1,3-Dichloropropene	ug/g	0.21	0.21	ND(0.05)	ND(0.05)	ND(0.05)	-
Dibromochloromethane	ug/g	13	13	ND(0.050)	ND(0.050)	ND(0.050)	-
Dichlorodifluoromethane (CFC-12)	ug/g	25	25	ND(0.050)	ND(0.050)	ND(0.050)	-
Ethylbenzene	ug/g	19	19	ND(0.015)	ND(0.015)	ND(0.015)	-
Hexane	ug/g	88	88	ND(0.050)	ND(0.050)	ND(0.050)	-
m&p-Xylenes	ug/g	NV	NV	ND(0.030)	ND(0.030)	ND(0.030)	-
Methyl tert butyl ether (MTBE)	ug/g	3.2	3.2	ND(0.040)	ND(0.040)	ND(0.040)	-
Methylene chloride	ug/g	2	2	ND(0.045)	ND(0.045)	ND(0.045)	-
o-Xylene	ug/g	NV	NV	ND(0.030)	ND(0.030)	ND(0.030)	-
Styrene	ug/g	43	43	ND(0.050)	ND(0.050)	ND(0.050)	-
Tetrachloroethene	ug/g	21	21	ND(0.050)	ND(0.050)	ND(0.050)	-
Toluene	ug/g	78	78	ND(0.050)	ND(0.050)	ND(0.050)	-
Total BTEX	ug/g	NV	NV	ND(0.1)	ND(0.1)	ND(0.1)	-
trans-1,2-Dichloroethene	ug/g	9.3	9.3	ND(0.050)	ND(0.050)	ND(0.050)	-
trans-1,3-Dichloropropene	ug/g	NV	NV	ND(0.030)	ND(0.030)	ND(0.030)	-
Trichloroethene	ug/g	0.61	0.61	ND(0.010)	ND(0.010)	ND(0.010)	-
Trichlorofluoromethane (CFC-11)	ug/g	5.8	5.8	ND(0.050)	ND(0.050)	ND(0.050)	-
Vinyl chloride	ug/g	0.25	0.25	ND(0.020)	ND(0.020)	ND(0.020)	-
Xylenes (total)	ug/g	30	30	ND(0.05)	ND(0.05)	ND(0.05)	-

Table 6

Summary of Soil Analytical Results
Phase Two Environmental Site Assessment
2524 Cawthra Road, Mississauga, Ontario
The Corporation of the City of Mississauga

			Sample Location:	**BH1-22**	**BH2-22**	**BH3-22**	
			Sample Identification:	**S-12581540-220613-JB-BH1-22-0.0-0.6**	**S-12581540-220614-JB-BH2-22-0.0-0.3**	**S-12581540-220614-JB-BH3-22-0.0-0.6**	**S-12581540-220614-JB-BH3-22-0.0-0.6X**
			Sample Date:	**06/13/2022**	**06/14/2022**	**06/14/2022**	**06/14/2022**
			Sample Depth (mBGS):	**0.00-0.60**	**0.00-0.30**	**0.00-0.60**	**0.00-0.60**
			Lab Certificate of Analysis:	**WT2205639**	**WT2205639**	**WT2205639**	**WT2205639**
Parameters	**Units**	**2011 MOE Standards**					***Field Duplicate***
		Table 3 ICC[1]	**Table 7 ICC[2]**				
Semi-Volatile Organic Compounds							
1+2-Methylnaphthalene	ug/g	85	85	ND(0.05)	-	-	-
1-Methylnaphthalene	ug/g	85	85	ND(0.030)	-	-	-
2-Methylnaphthalene	ug/g	85	85	ND(0.030)	-	-	-
Acenaphthene	ug/g	96	96	ND(0.050)	-	-	-
Acenaphthylene	ug/g	0.17	0.17	ND(0.050)	-	-	-
Anthracene	ug/g	0.74	0.74	ND(0.050)	-	-	-
Benzo(a)anthracene	ug/g	0.96	0.96	0.059	-	-	-
Benzo(a)pyrene	ug/g	0.3	0.3	0.088	-	-	-
Benzo(b/j)fluoranthene	ug/g	0.96	0.96	0.109	-	-	-
Benzo(g,h,i)perylene	ug/g	9.6	9.6	0.120	-	-	-
Benzo(k)fluoranthene	ug/g	0.96	0.96	0.050	-	-	-
Chrysene	ug/g	9.6	9.6	0.077	-	-	-
Dibenz(a,h)anthracene	ug/g	0.1	0.1	ND(0.050)	-	-	-
Fluoranthene	ug/g	9.6	9.6	0.127	-	-	-
Fluorene	ug/g	69	69	ND(0.050)	-	-	-
Indeno(1,2,3-cd)pyrene	ug/g	0.95	0.95	0.080	-	-	-
Naphthalene	ug/g	28	28	ND(0.010)	-	-	-
Phenanthrene	ug/g	16	16	0.053	-	-	-
Pyrene	ug/g	96	96	0.108	-	-	-
Metals							
Antimony	ug/g	50	50	1.28	0.70	0.92	0.96
Arsenic	ug/g	18	18	**37.0**	4.35	**406**	**170**
Barium	ug/g	670	670	83.8	58.4	134	85.7
Beryllium	ug/g	10	10	0.42	0.24	0.29	0.29
Boron	ug/g	120	120	7.5	8.1	13.6	10.6
Boron (hot water soluble)	ug/g	2	2	0.25	0.29	0.82	0.88
Cadmium	ug/g	1.9	1.9	1.34	0.464	**4.42**	**2.64**
Calcium (soluble)	mg/L	NV	NV	26.7	21.8	19.6	16.6
Chromium	ug/g	160	160	40.4	**176**	129	94.4
Chromium VI (hexavalent)	ug/g	10	10	ND(0.10)	4.70	0.76	ND(0.10)
Cobalt	ug/g	100	100	6.74	4.29	6.34	5.36
Copper	ug/g	300	300	48.3	24.9	48.4	64.3
Lead	ug/g	120	120	81.0	37.1	102	85.4
Magnesium (soluble)	mg/L	NV	NV	2.38	1.11	13.7	5.00
Mercury	ug/g	20	20	0.0972	0.0168	0.0360	0.0313
Molybdenum	ug/g	40	40	1.94	2.67	2.39	2.12
Nickel	ug/g	340	340	34.4	21.2	234	109
Selenium	ug/g	5.5	5.5	0.21	ND(0.20)	ND(0.20)	ND(0.20)
Silver	ug/g	50	50	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)
Sodium (soluble)	mg/L	NV	NV	2.91	13.6	51.1	53.9
Thallium	ug/g	3.3	3.3	0.094	0.066	0.214	0.145
Uranium	ug/g	33	33	0.431	0.415	0.694	0.559
Vanadium	ug/g	86	86	75.1	**89.3**	**360**	**145**
Zinc	ug/g	340	340	193	77.0	209	187

Table 6

Summary of Soil Analytical Results
Phase Two Environmental Site Assessment
2524 Cawthra Road, Mississauga, Ontario
The Corporation of the City of Mississauga

			Sample Location:	BH1-22	BH2-22	BH3-22	
			Sample Identification:	S-12581540-220613-JB-BH1-22-0.0-0.6	S-12581540-220614-JB-BH2-22-0.0-0.3	S-12581540-220614-JB-BH3-22-0.0-0.6	S-12581540-220614-JB-BH3-22-0.0-0.6X
			Sample Date:	06/13/2022	06/14/2022	06/14/2022	06/14/2022
			Sample Depth (mBGS):	0.00-0.60	0.00-0.30	0.00-0.60	0.00-0.60
			Lab Certificate of Analysis:	WT2205639	WT2205639	WT2205639	WT2205639
Parameters	**Units**	**2011 MOE Standards**					***Field Duplicate***
		Table 3 ICC[1]	**Table 7 ICC[2]**				
Polychlorinated Biphenyls (PCBs)							
Aroclor-1016 (PCB-1016)	ug/g	NV	NV	-	-	-	-
Aroclor-1221 (PCB-1221)	ug/g	NV	NV	-	-	-	-
Aroclor-1232 (PCB-1232)	ug/g	NV	NV	-	-	-	-
Aroclor-1242 (PCB-1242)	ug/g	NV	NV	-	-	-	-
Aroclor-1248 (PCB-1248)	ug/g	NV	NV	-	-	-	-
Aroclor-1254 (PCB-1254)	ug/g	NV	NV	-	-	-	-
Aroclor-1260 (PCB-1260)	ug/g	NV	NV	-	-	-	-
Aroclor-1262 (PCB-1262)	ug/g	NV	NV	-	-	-	-
Aroclor-1268 (PCB-1268)	ug/g	NV	NV	-	-	-	-
Total PCBs	ug/g	1.1	1.1	-	-	-	-
Petroleum Hydrocarbons (PHCs)							
PHCs F1 (C6-C10)	ug/g	65	65	ND(5.0)	ND(5.0)	ND(5.0)	-
PHCs F1 minus BTEX	ug/g	65	65	ND(5)	ND(5)	ND(5)	-
PHCs F2 (C10-C16)	ug/g	250	250	ND(10)	ND(59)	ND(33)	-
PHCs F2 minus Naphthalene	ug/g	250	250	ND(25)	-	-	-
PHCs F3 (C16-C34)	ug/g	2500	2500	143	1440	714	-
PHCs F3 minus PAH	ug/g	2500	2500	142	-	-	-
PHCs F4 (C34-C50)	ug/g	6600	6600	316	4350	1830	-
PHCs F4 gravimetric - silica gel (GHH)	ug/g	6600	6600	1290	-	-	-
Total PHCs (C6-C50)	ug/g	NV	NV	459	5790	2540	-
General Chemistry							
Conductivity	mS/cm	1.4	1.4	0.168	0.193	0.428	0.373
Cyanide, weak acid dissociable	ug/g	0.051	0.051	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Moisture	%	NV	NV	8.53	10.0	7.40	6.87
pH, soluble (1:2)	s.u.	(5-11) 5-9	(5-11) 5-9	7.68	**9.94**	**9.90**	**9.79**
Sodium adsorption ratio (SAR)	none	12	12	0.14	0.77	2.17	2.98

Notes:

(1)	Ontario Ministry of Environment (MOE) Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition for Industrial/Commercial/Community Property Use with medium to fine textured soils, April 2011
(2)	MOE, Table 7: Generic Site Condition Standards for Shallow Soils in a Non-Potable Ground Water Condition for Industrial/Commercial/Community Property Use with medium to fine textured soils, April 2011
mBGS	metres Below Ground Surface
ug/g	micrograms per gram
mS/cm	milliSiemens per centimetre
%	percent
s.u.	standard units
NV	No value
ND(0.01)	Not detected at the associated reporting limit indicated in brackets
-	Not analyzed
RED	Concentration above MOE Table 3 Standards
	Concentration above MOE Table 7 Standards

Table 6

Summary of Soil Analytical Results
Phase Two Environmental Site Assessment
2524 Cawthra Road, Mississauga, Ontario
The Corporation of the City of Mississauga

Sample Location:				**BH4-22**		**BH5-22**	**BH6-22**	**BH7-22**
Sample Identification:				**S-12581540-220614-JB-BH4-22-0.0-0.6**	**S-12581540-220614-JB-BH4-22-0.0-0.6X**	**S-12581540-220614-JB-BH5-22-0.0-0.6**	**S-12581540-220614-JB-BH6-22-0.0-0.6**	**S-12581540-220613-JB-BH7-22-0.0-0.6**
Sample Date:				**06/14/2022**	**06/14/2022**	**06/14/2022**	**06/14/2022**	**06/13/2022**
Sample Depth (mBGS):				**0.00-0.60**	**0.00-0.60**	**0.00-0.60**	**0.00-0.60**	**0.00-0.60**
Lab Certificate of Analysis:				**WT2205639**	**WT2205639**	**WT2205639**	**WT2205639**	**WT2205639**
Parameters	**Units**	**2011 MOE Standards**			***Field Duplicate***			
		Table 3 ICC[1]	**Table 7 ICC[2]**					
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	ug/g	0.11	0.11	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
1,1,1-Trichloroethane	ug/g	12	12	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
1,1,2,2-Tetrachloroethane	ug/g	0.094	0.094	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
1,1,2-Trichloroethane	ug/g	0.11	0.11	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
1,1-Dichloroethane	ug/g	21	21	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
1,1-Dichloroethene	ug/g	0.48	0.48	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
Ethylene dibromide	ug/g	0.05	0.05	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
1,2-Dichlorobenzene	ug/g	8.5	8.5	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
1,2-Dichloroethane	ug/g	0.05	0.05	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
1,2-Dichloropropane	ug/g	0.68	0.68	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
1,3-Dichlorobenzene	ug/g	12	12	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
1,4-Dichlorobenzene	ug/g	0.84	0.84	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
Methyl ethyl ketone	ug/g	88	88	ND(0.50)	-	ND(0.50)	ND(0.50)	ND(0.50)
Methyl isobutyl ketone	ug/g	210	210	ND(0.50)	-	ND(0.50)	ND(0.50)	ND(0.50)
Acetone	ug/g	28	28	ND(0.50)	-	ND(0.50)	ND(0.50)	ND(0.50)
Benzene	ug/g	0.4	0.4	ND(0.0050)	-	ND(0.0050)	ND(0.0050)	ND(0.0050)
Bromodichloromethane	ug/g	18	18	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
Bromoform	ug/g	1.7	1.7	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
Bromomethane (Methyl bromide)	ug/g	0.05	0.05	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
Carbon tetrachloride	ug/g	1.5	1.5	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
Chlorobenzene	ug/g	2.7	2.7	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
Chloroform (Trichloromethane)	ug/g	0.18	0.18	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
cis-1,2-Dichloroethene	ug/g	37	37	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
cis-1,3-Dichloropropene	ug/g	NV	NV	ND(0.030)	-	ND(0.030)	ND(0.030)	ND(0.030)
cis/trans-1,3-Dichloropropene	ug/g	0.21	0.21	ND(0.05)	-	ND(0.05)	ND(0.05)	ND(0.05)
Dibromochloromethane	ug/g	13	13	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
Dichlorodifluoromethane (CFC-12)	ug/g	25	25	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
Ethylbenzene	ug/g	19	19	ND(0.015)	-	ND(0.015)	ND(0.015)	ND(0.015)
Hexane	ug/g	88	88	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
m&p-Xylenes	ug/g	NV	NV	ND(0.030)	-	ND(0.030)	ND(0.030)	ND(0.030)
Methyl tert butyl ether (MTBE)	ug/g	3.2	3.2	ND(0.040)	-	ND(0.040)	ND(0.040)	ND(0.040)
Methylene chloride	ug/g	2	2	ND(0.045)	-	ND(0.045)	ND(0.045)	ND(0.054)
o-Xylene	ug/g	NV	NV	ND(0.030)	-	ND(0.030)	ND(0.030)	ND(0.030)
Styrene	ug/g	43	43	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
Tetrachloroethene	ug/g	21	21	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
Toluene	ug/g	78	78	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
Total BTEX	ug/g	NV	NV	ND(0.1)	-	ND(0.1)	ND(0.1)	ND(0.1)
trans-1,2-Dichloroethene	ug/g	9.3	9.3	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
trans-1,3-Dichloropropene	ug/g	NV	NV	ND(0.030)	-	ND(0.030)	ND(0.030)	ND(0.030)
Trichloroethene	ug/g	0.61	0.61	ND(0.010)	-	ND(0.010)	ND(0.010)	ND(0.010)
Trichlorofluoromethane (CFC-11)	ug/g	5.8	5.8	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
Vinyl chloride	ug/g	0.25	0.25	ND(0.020)	-	ND(0.020)	ND(0.020)	ND(0.020)
Xylenes (total)	ug/g	30	30	ND(0.05)	-	ND(0.05)	ND(0.05)	ND(0.05)

Table 6

Summary of Soil Analytical Results
Phase Two Environmental Site Assessment
2524 Cawthra Road, Mississauga, Ontario
The Corporation of the City of Mississauga

Sample Location:				**BH4-22**		**BH5-22**	**BH6-22**	**BH7-22**
Sample Identification:				**S-12581540-220614-JB-BH4-22-0.0-0.6**	**S-12581540-220614-JB-BH4-22-0.0-0.6X**	**S-12581540-220614-JB-BH5-22-0.0-0.6**	**S-12581540-220614-JB-BH6-22-0.0-0.6**	**S-12581540-220613-JB-BH7-22-0.0-0.6**
Sample Date:				**06/14/2022**	**06/14/2022**	**06/14/2022**	**06/14/2022**	**06/13/2022**
Sample Depth (mBGS):				**0.00-0.60**	**0.00-0.60**	**0.00-0.60**	**0.00-0.60**	**0.00-0.60**
Lab Certificate of Analysis:				**WT2205639**	**WT2205639**	**WT2205639**	**WT2205639**	**WT2205639**
Parameters	**Units**	**2011 MOE Standards**			***Field Duplicate***			
		Table 3 ICC[1]	**Table 7 ICC[2]**					
Semi-Volatile Organic Compounds								
1+2-Methylnaphthalene	ug/g	85	85	ND(0.05)	ND(0.05)	ND(0.05)	-	-
1-Methylnaphthalene	ug/g	85	85	ND(0.030)	ND(0.030)	ND(0.030)	-	-
2-Methylnaphthalene	ug/g	85	85	ND(0.030)	ND(0.030)	ND(0.030)	-	-
Acenaphthene	ug/g	96	96	ND(0.050)	ND(0.050)	ND(0.050)	-	-
Acenaphthylene	ug/g	0.17	0.17	ND(0.050)	ND(0.050)	ND(0.050)	-	-
Anthracene	ug/g	0.74	0.74	0.152	0.096	ND(0.050)	-	-
Benzo(a)anthracene	ug/g	0.96	0.96	0.740	0.482	0.065	-	-
Benzo(a)pyrene	ug/g	0.3	0.3	**0.834**	**0.536**	0.147	-	-
Benzo(b/j)fluoranthene	ug/g	0.96	0.96	**0.971**	0.592	0.158	-	-
Benzo(g,h,i)perylene	ug/g	9.6	9.6	0.591	0.471	0.212	-	-
Benzo(k)fluoranthene	ug/g	0.96	0.96	0.380	0.278	0.056	-	-
Chrysene	ug/g	9.6	9.6	0.913	0.651	0.203	-	-
Dibenz(a,h)anthracene	ug/g	0.1	0.1	**0.146**	**0.121**	ND(0.050)	-	-
Fluoranthene	ug/g	9.6	9.6	1.66	1.12	0.132	-	-
Fluorene	ug/g	69	69	ND(0.050)	ND(0.050)	ND(0.050)	-	-
Indeno(1,2,3-cd)pyrene	ug/g	0.95	0.95	0.376	0.353	0.114	-	-
Naphthalene	ug/g	28	28	0.022	ND(0.020)	ND(0.020)	-	-
Phenanthrene	ug/g	16	16	0.574	0.362	0.100	-	-
Pyrene	ug/g	96	96	1.53	1.05	0.175	-	-
Metals								
Antimony	ug/g	50	50	0.60	-	0.25	0.52	0.44
Arsenic	ug/g	18	18	4.79	-	**97.4**	5.19	**39.4**
Barium	ug/g	670	670	51.3	-	55.5	69.0	116
Beryllium	ug/g	10	10	0.26	-	0.19	0.30	0.46
Boron	ug/g	120	120	14.5	-	11.1	12.7	19.8
Boron (hot water soluble)	ug/g	2	2	0.93	-	0.33	1.02	0.63
Cadmium	ug/g	1.9	1.9	0.423	-	0.403	0.309	0.868
Calcium (soluble)	mg/L	NV	NV	105	-	21.8	44.4	107
Chromium	ug/g	160	160	95.8	-	127	76.9	113
Chromium VI (hexavalent)	ug/g	10	10	2.98	-	2.46	1.96	1.45
Cobalt	ug/g	100	100	3.92	-	3.39	5.16	5.52
Copper	ug/g	300	300	28.6	-	21.8	40.2	26.8
Lead	ug/g	120	120	26.0	-	22.4	30.2	48.0
Magnesium (soluble)	mg/L	NV	NV	ND(0.50)	-	12.0	ND(0.50)	0.78
Mercury	ug/g	20	20	0.0098	-	0.0081	0.0146	0.137
Molybdenum	ug/g	40	40	2.85	-	1.79	2.14	2.02
Nickel	ug/g	340	340	23.4	-	29.0	15.7	172
Selenium	ug/g	5.5	5.5	ND(0.20)	-	ND(0.20)	ND(0.20)	1.09
Silver	ug/g	50	50	ND(0.50)	-	ND(0.50)	ND(0.50)	ND(0.50)
Sodium (soluble)	mg/L	NV	NV	13.3	-	26.4	55.2	62.8
Thallium	ug/g	3.3	3.3	0.190	-	0.052	0.373	0.059
Uranium	ug/g	33	33	0.456	-	0.548	0.478	1.16
Vanadium	ug/g	86	86	67.5	-	**309**	69.4	**387**
Zinc	ug/g	340	340	112	-	106	126	145

Table 6

Summary of Soil Analytical Results
Phase Two Environmental Site Assessment
2524 Cawthra Road, Mississauga, Ontario
The Corporation of the City of Mississauga

Sample Location:				**BH4-22**		**BH5-22**	**BH6-22**	**BH7-22**
Sample Identification:				**S-12581540-220614-JB-BH4-22-0.0-0.6**	**S-12581540-220614-JB-BH4-22-0.0-0.6X**	**S-12581540-220614-JB-BH5-22-0.0-0.6**	**S-12581540-220614-JB-BH6-22-0.0-0.6**	**S-12581540-220613-JB-BH7-22-0.0-0.6**
Sample Date:				**06/14/2022**	**06/14/2022**	**06/14/2022**	**06/14/2022**	**06/13/2022**
Sample Depth (mBGS):				**0.00-0.60**	**0.00-0.60**	**0.00-0.60**	**0.00-0.60**	**0.00-0.60**
Lab Certificate of Analysis:				**WT2205639**	**WT2205639**	**WT2205639**	**WT2205639**	**WT2205639**
Parameters	**Units**	**2011 MOE Standards**			***Field Duplicate***			
		Table 3 ICC[1]	**Table 7 ICC[2]**					
Polychlorinated Biphenyls (PCBs)								
Aroclor-1016 (PCB-1016)	ug/g	NV	NV	-	-	-	-	ND(0.040)
Aroclor-1221 (PCB-1221)	ug/g	NV	NV	-	-	-	-	ND(0.040)
Aroclor-1232 (PCB-1232)	ug/g	NV	NV	-	-	-	-	ND(0.040)
Aroclor-1242 (PCB-1242)	ug/g	NV	NV	-	-	-	-	ND(0.040)
Aroclor-1248 (PCB-1248)	ug/g	NV	NV	-	-	-	-	ND(0.040)
Aroclor-1254 (PCB-1254)	ug/g	NV	NV	-	-	-	-	ND(0.040)
Aroclor-1260 (PCB-1260)	ug/g	NV	NV	-	-	-	-	ND(0.040)
Aroclor-1262 (PCB-1262)	ug/g	NV	NV	-	-	-	-	ND(0.040)
Aroclor-1268 (PCB-1268)	ug/g	NV	NV	-	-	-	-	ND(0.040)
Total PCBs	ug/g	1.1	1.1	-	-	-	-	ND(0.120)
Petroleum Hydrocarbons (PHCs)								
PHCs F1 (C6-C10)	ug/g	65	65	ND(5.0)	-	ND(5.0)	ND(5.0)	ND(5.0)
PHCs F1 minus BTEX	ug/g	65	65	ND(5)	-	ND(5)	ND(5)	ND(5)
PHCs F2 (C10-C16)	ug/g	250	250	ND(57)	-	ND(57)	ND(63)	ND(30)
PHCs F2 minus Naphthalene	ug/g	250	250	ND(57)	-	ND(57)	-	-
PHCs F3 (C16-C34)	ug/g	2500	2500	**2790**	-	1720	1400	806
PHCs F3 minus PAH	ug/g	2500	2500	**2780**	-	1720	-	-
PHCs F4 (C34-C50)	ug/g	6600	6600	5450	-	4920	3580	2330
PHCs F4 gravimetric - silica gel (GHH)	ug/g	6600	6600	**15800**	-	**13700**	**11200**	**6630**
Total PHCs (C6-C50)	ug/g	NV	NV	8240	-	6640	4980	3140
General Chemistry								
Conductivity	mS/cm	1.4	1.4	0.583	-	0.326	0.503	0.826
Cyanide, weak acid dissociable	ug/g	0.051	0.051	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
Moisture	%	NV	NV	7.23	7.26	8.36	7.46	22.0
pH, soluble (1:2)	s.u.	(5-11) 5-9	(5-11) 5-9	**10.9**	-	**10.9**	**10.7**	**10.8**
Sodium adsorption ratio (SAR)	none	12	12	0.36	-	1.13	2.28	1.66

Notes:

[1]	Ontario Ministry of Environment (MOE) Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition for Industrial/Commercial/Community Property Use with medium to fine textured soils, April 2011
[2]	MOE, Table 7: Generic Site Condition Standards for Shallow Soils in a Non-Potable Ground Water Condition for Industrial/Commercial/Community Property Use with medium to fine textured soils, April 2011
mBGS	metres Below Ground Surface
ug/g	micrograms per gram
mS/cm	milliSiemens per centimetre
%	percent
s.u.	standard units
NV	No value
ND(0.01)	Not detected at the associated reporting limit indicated in brackets
-	Not analyzed
RED	Concentration above MOE Table 3 Standards
	Concentration above MOE Table 7 Standards

Table 6

Summary of Soil Analytical Results
Phase Two Environmental Site Assessment
2524 Cawthra Road, Mississauga, Ontario
The Corporation of the City of Mississauga

Sample Location:				BH8-22		BH9-22		BH10-22
Sample Identification:				S-12581540-220614-JB-BH8-22-0.0-0.6	S-12581540-220614-JB-BH8-22-0.0-0.6X	S-12581540-220614-JB-BH9-22-0.0-0.6	S-12581540-220614-JB-BH9-22-0.0-0.6X	S-12581540-220613-JB-BH10-22-0.0-0.6
Sample Date:				06/14/2022	06/14/2022	06/14/2022	06/14/2022	06/13/2022
Sample Depth (mBGS):				0.00-0.60	0.00-0.60	0.00-0.60	0.00-0.60	0.00-0.60
Lab Certificate of Analysis:				WT2205639	WT2205639	WT2205639	WT2205639	WT2205639
Parameters	**Units**	**2011 MOE Standards**			***Field Duplicate***		***Field Duplicate***	
		Table 3 ICC[1]	**Table 7 ICC[2]**					
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	ug/g	0.11	0.11	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
1,1,1-Trichloroethane	ug/g	12	12	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
1,1,2,2-Tetrachloroethane	ug/g	0.094	0.094	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
1,1,2-Trichloroethane	ug/g	0.11	0.11	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
1,1-Dichloroethane	ug/g	21	21	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
1,1-Dichloroethene	ug/g	0.48	0.48	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
Ethylene dibromide	ug/g	0.05	0.05	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
1,2-Dichlorobenzene	ug/g	8.5	8.5	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
1,2-Dichloroethane	ug/g	0.05	0.05	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
1,2-Dichloropropane	ug/g	0.68	0.68	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
1,3-Dichlorobenzene	ug/g	12	12	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
1,4-Dichlorobenzene	ug/g	0.84	0.84	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
Methyl ethyl ketone	ug/g	88	88	ND(0.50)	-	ND(0.50)	ND(0.50)	ND(0.50)
Methyl isobutyl ketone	ug/g	210	210	ND(0.50)	-	ND(0.50)	ND(0.50)	ND(0.50)
Acetone	ug/g	28	28	ND(0.50)	-	ND(0.50)	ND(0.50)	ND(0.50)
Benzene	ug/g	0.4	0.4	ND(0.0050)	-	0.0794	0.0164	ND(0.0050)
Bromodichloromethane	ug/g	18	18	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
Bromoform	ug/g	1.7	1.7	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
Bromomethane (Methyl bromide)	ug/g	0.05	0.05	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
Carbon tetrachloride	ug/g	1.5	1.5	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
Chlorobenzene	ug/g	2.7	2.7	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
Chloroform (Trichloromethane)	ug/g	0.18	0.18	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
cis-1,2-Dichloroethene	ug/g	37	37	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
cis-1,3-Dichloropropene	ug/g	NV	NV	ND(0.030)	-	ND(0.030)	ND(0.030)	ND(0.030)
cis/trans-1,3-Dichloropropene	ug/g	0.21	0.21	ND(0.05)	-	ND(0.05)	ND(0.05)	ND(0.05)
Dibromochloromethane	ug/g	13	13	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
Dichlorodifluoromethane (CFC-12)	ug/g	25	25	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
Ethylbenzene	ug/g	19	19	ND(0.015)	-	0.408	0.066	ND(0.015)
Hexane	ug/g	88	88	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
m&p-Xylenes	ug/g	NV	NV	ND(0.030)	-	0.365	0.052	ND(0.030)
Methyl tert butyl ether (MTBE)	ug/g	3.2	3.2	ND(0.040)	-	ND(0.040)	ND(0.040)	ND(0.040)
Methylene chloride	ug/g	2	2	ND(0.045)	-	ND(0.045)	ND(0.045)	ND(0.045)
o-Xylene	ug/g	NV	NV	ND(0.030)	-	0.210	0.038	ND(0.030)
Styrene	ug/g	43	43	ND(0.050)	-	0.125	0.115	ND(0.050)
Tetrachloroethene	ug/g	21	21	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
Toluene	ug/g	78	78	ND(0.050)	-	0.393	0.083	ND(0.050)
Total BTEX	ug/g	NV	NV	ND(0.1)	-	1.46	0.26	ND(0.1)
trans-1,2-Dichloroethene	ug/g	9.3	9.3	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
trans-1,3-Dichloropropene	ug/g	NV	NV	ND(0.030)	-	ND(0.030)	ND(0.030)	ND(0.030)
Trichloroethene	ug/g	0.61	0.61	ND(0.010)	-	ND(0.010)	ND(0.010)	ND(0.010)
Trichlorofluoromethane (CFC-11)	ug/g	5.8	5.8	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
Vinyl chloride	ug/g	0.25	0.25	ND(0.020)	-	ND(0.020)	ND(0.020)	ND(0.020)
Xylenes (total)	ug/g	30	30	ND(0.05)	-	0.575	0.090	ND(0.05)

Table 6

Summary of Soil Analytical Results
Phase Two Environmental Site Assessment
2524 Cawthra Road, Mississauga, Ontario
The Corporation of the City of Mississauga

Sample Location:				BH8-22		BH9-22		BH10-22
Sample Identification:				S-12581540-220614-JB-BH8-22-0.0-0.6	S-12581540-220614-JB-BH8-22-0.0-0.6X	S-12581540-220614-JB-BH9-22-0.0-0.6	S-12581540-220614-JB-BH9-22-0.0-0.6X	S-12581540-220613-JB-BH10-22-0.0-0.6
Sample Date:				06/14/2022	06/14/2022	06/14/2022	06/14/2022	06/13/2022
Sample Depth (mBGS):				0.00-0.60	0.00-0.60	0.00-0.60	0.00-0.60	0.00-0.60
Lab Certificate of Analysis:				WT2205639	WT2205639	WT2205639	WT2205639	WT2205639
Parameters	**Units**	**2011 MOE Standards**			***Field Duplicate***		***Field Duplicate***	
		Table 3 ICC[1]	**Table 7 ICC[2]**					
Semi-Volatile Organic Compounds								
1+2-Methylnaphthalene	ug/g	85	85	0.148	0.144	-	-	0.310
1-Methylnaphthalene	ug/g	85	85	0.082	0.081	-	-	0.124
2-Methylnaphthalene	ug/g	85	85	0.066	0.063	-	-	0.186
Acenaphthene	ug/g	96	96	0.085	0.086	-	-	0.157
Acenaphthylene	ug/g	0.17	0.17	ND(0.050)	ND(0.050)	-	-	ND(0.050)
Anthracene	ug/g	0.74	0.74	0.243	0.292	-	-	0.499
Benzo(a)anthracene	ug/g	0.96	0.96	0.774	**1.09**	-	-	0.704
Benzo(a)pyrene	ug/g	0.3	0.3	**0.784**	**1.14**	-	-	**0.667**
Benzo(b/j)fluoranthene	ug/g	0.96	0.96	0.930	**1.44**	-	-	0.831
Benzo(g,h,i)perylene	ug/g	9.6	9.6	0.533	0.676	-	-	0.402
Benzo(k)fluoranthene	ug/g	0.96	0.96	0.406	0.498	-	-	0.258
Chrysene	ug/g	9.6	9.6	0.936	1.24	-	-	0.702
Dibenz(a,h)anthracene	ug/g	0.1	0.1	**0.153**	**0.190**	-	-	**0.120**
Fluoranthene	ug/g	9.6	9.6	1.89	2.63	-	-	1.67
Fluorene	ug/g	69	69	0.087	0.092	-	-	0.327
Indeno(1,2,3-cd)pyrene	ug/g	0.95	0.95	0.478	0.612	-	-	0.331
Naphthalene	ug/g	28	28	0.025	0.028	-	-	0.190
Phenanthrene	ug/g	16	16	1.04	1.36	-	-	1.83
Pyrene	ug/g	96	96	1.54	2.09	-	-	1.31
Metals								
Antimony	ug/g	50	50	0.73	-	38.6	-	0.51
Arsenic	ug/g	18	18	6.86	-	**26.5**	-	5.90
Barium	ug/g	670	670	62.0	-	90.8	-	102
Beryllium	ug/g	10	10	0.30	-	0.31	-	1.01
Boron	ug/g	120	120	11.8	-	9.7	-	14.6
Boron (hot water soluble)	ug/g	2	2	0.47	-	0.97	-	0.77
Cadmium	ug/g	1.9	1.9	0.891	-	**3.99**	-	**2.90**
Calcium (soluble)	mg/L	NV	NV	83.9	-	11.5	-	3.47
Chromium	ug/g	160	160	82.4	-	50.4	-	56.5
Chromium VI (hexavalent)	ug/g	10	10	1.48	-	ND(0.10)	-	0.18
Cobalt	ug/g	100	100	4.99	-	21.2	-	3.34
Copper	ug/g	300	300	39.6	-	26.3	-	19.0
Lead	ug/g	120	120	79.5	-	53.2	-	**286**
Magnesium (soluble)	mg/L	NV	NV	ND(0.50)	-	6.60	-	ND(0.50)
Mercury	ug/g	20	20	0.0339	-	0.310	-	0.0320
Molybdenum	ug/g	40	40	2.40	-	2.21	-	2.60
Nickel	ug/g	340	340	18.3	-	50.1	-	12.3
Selenium	ug/g	5.5	5.5	ND(0.20)	-	0.78	-	0.83
Silver	ug/g	50	50	ND(0.50)	-	ND(0.50)	-	ND(0.50)
Sodium (soluble)	mg/L	NV	NV	25.5	-	111	-	153
Thallium	ug/g	3.3	3.3	0.070	-	0.083	-	0.101
Uranium	ug/g	33	33	0.588	-	0.491	-	1.12
Vanadium	ug/g	86	86	59.9	-	71.3	-	35.8
Zinc	ug/g	340	340	**748**	-	202	-	**1310**

Table 6

Summary of Soil Analytical Results
Phase Two Environmental Site Assessment
2524 Cawthra Road, Mississauga, Ontario
The Corporation of the City of Mississauga

			Sample Location:	**BH8-22**		**BH9-22**		**BH10-22**
			Sample Identification:	**S-12581540-220614-JB-BH8-22-0.0-0.6**	**S-12581540-220614-JB-BH8-22-0.0-0.6X**	**S-12581540-220614-JB-BH9-22-0.0-0.6**	**S-12581540-220614-JB-BH9-22-0.0-0.6X**	**S-12581540-220613-JB-BH10-22-0.0-0.6**
			Sample Date:	**06/14/2022**	**06/14/2022**	**06/14/2022**	**06/14/2022**	**06/13/2022**
			Sample Depth (mBGS):	**0.00-0.60**	**0.00-0.60**	**0.00-0.60**	**0.00-0.60**	**0.00-0.60**
			Lab Certificate of Analysis:	**WT2205639**	**WT2205639**	**WT2205639**	**WT2205639**	**WT2205639**
Parameters	**Units**	**2011 MOE Standards**			***Field Duplicate***		***Field Duplicate***	
		Table 3 ICC[1]	**Table 7 ICC[2]**					
Polychlorinated Biphenyls (PCBs)								
Aroclor-1016 (PCB-1016)	ug/g	NV	NV	-	-	-	-	-
Aroclor-1221 (PCB-1221)	ug/g	NV	NV	-	-	-	-	-
Aroclor-1232 (PCB-1232)	ug/g	NV	NV	-	-	-	-	-
Aroclor-1242 (PCB-1242)	ug/g	NV	NV	-	-	-	-	-
Aroclor-1248 (PCB-1248)	ug/g	NV	NV	-	-	-	-	-
Aroclor-1254 (PCB-1254)	ug/g	NV	NV	-	-	-	-	-
Aroclor-1260 (PCB-1260)	ug/g	NV	NV	-	-	-	-	-
Aroclor-1262 (PCB-1262)	ug/g	NV	NV	-	-	-	-	-
Aroclor-1268 (PCB-1268)	ug/g	NV	NV	-	-	-	-	-
Total PCBs	ug/g	1.1	1.1	-	-	-	-	-
Petroleum Hydrocarbons (PHCs)								
PHCs F1 (C6-C10)	ug/g	65	65	ND(5.0)	-	18.4	9.1	ND(5.0)
PHCs F1 minus BTEX	ug/g	65	65	ND(5)	-	16.9	8.8	ND(5)
PHCs F2 (C10-C16)	ug/g	250	250	80	-	ND(58)	ND(30)	ND(30)
PHCs F2 minus Naphthalene	ug/g	250	250	80	-	-	-	ND(30)
PHCs F3 (C16-C34)	ug/g	2500	2500	1900	-	1120	1110	778
PHCs F3 minus PAH	ug/g	2500	2500	1890	-	-	-	770
PHCs F4 (C34-C50)	ug/g	6600	6600	3580	-	2670	2490	1660
PHCs F4 gravimetric - silica gel (GHH)	ug/g	6600	6600	**11200**	-	**8110**	**6870**	5260
Total PHCs (C6-C50)	ug/g	NV	NV	5560	-	3810	3610	2440
General Chemistry								
Conductivity	mS/cm	1.4	1.4	0.593	-	0.642	-	0.805
Cyanide, weak acid dissociable	ug/g	0.051	0.051	ND(0.050)	-	ND(0.050)	-	ND(0.050)
Moisture	%	NV	NV	8.06	7.51	7.20	9.01	6.95
pH, soluble (1:2)	s.u.	(5-11) 5-9	(5-11) 5-9	**11.1**	-	8.53	-	**10.3**
Sodium adsorption ratio (SAR)	none	12	12	0.77	-	6.46	-	**22.6**

Notes:

(1)	Ontario Ministry of Environment (MOE) Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition for Industrial/Commercial/Community Property Use with medium to fine textured soils, April 2011
(2)	MOE, Table 7: Generic Site Condition Standards for Shallow Soils in a Non-Potable Ground Water Condition for Industrial/Commercial/Community Property Use with medium to fine textured soils, April 2011
mBGS	metres Below Ground Surface
ug/g	micrograms per gram
mS/cm	milliSiemens per centimetre
%	percent
s.u.	standard units
NV	No value
ND(0.01)	Not detected at the associated reporting limit indicated in brackets
-	Not analyzed
RED	Concentration above MOE Table 3 Standards
	Concentration above MOE Table 7 Standards

Table 6

Summary of Soil Analytical Results
Phase Two Environmental Site Assessment
2524 Cawthra Road, Mississauga, Ontario
The Corporation of the City of Mississauga

Sample Location:				BH10-22		BH11-22		BH12-22
Sample Identification:				S-12581540-220613-JB-BH10-22-1.5-1.8	S-12581540-220613-JB-BH10-22-1.5-1.8X	S-12581540-220613-JB-BH11-22-0.0-0.6	S-12581540-220613-JB-BH11-22-1.5-2.1	S-12581540-220610-JB-BH12-22-0.05-0.6
Sample Date:				06/13/2022	06/13/2022	06/13/2022	06/13/2022	06/10/2022
Sample Depth (mBGS):				1.50-1.80	1.50-1.80	0.00-0.60	1.50-2.10	0.05-0.60
Lab Certificate of Analysis:				WT2205639	WT2205639	WT2205639	WT2205639	WT2205480
Parameters	**Units**	**2011 MOE Standards**			***Field Duplicate***			
		Table 3 ICC[1]	**Table 7 ICC[2]**					
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	ug/g	0.11	0.11	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	-
1,1,1-Trichloroethane	ug/g	12	12	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	-
1,1,2,2-Tetrachloroethane	ug/g	0.094	0.094	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	-
1,1,2-Trichloroethane	ug/g	0.11	0.11	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	-
1,1-Dichloroethane	ug/g	21	21	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	-
1,1-Dichloroethene	ug/g	0.48	0.48	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	-
Ethylene dibromide	ug/g	0.05	0.05	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	-
1,2-Dichlorobenzene	ug/g	8.5	8.5	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	-
1,2-Dichloroethane	ug/g	0.05	0.05	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	-
1,2-Dichloropropane	ug/g	0.68	0.68	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	-
1,3-Dichlorobenzene	ug/g	12	12	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	-
1,4-Dichlorobenzene	ug/g	0.84	0.84	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	-
Methyl ethyl ketone	ug/g	88	88	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	-
Methyl isobutyl ketone	ug/g	210	210	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	-
Acetone	ug/g	28	28	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	-
Benzene	ug/g	0.4	0.4	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	-
Bromodichloromethane	ug/g	18	18	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	-
Bromoform	ug/g	1.7	1.7	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	-
Bromomethane (Methyl bromide)	ug/g	0.05	0.05	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	-
Carbon tetrachloride	ug/g	1.5	1.5	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	-
Chlorobenzene	ug/g	2.7	2.7	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	-
Chloroform (Trichloromethane)	ug/g	0.18	0.18	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	-
cis-1,2-Dichloroethene	ug/g	37	37	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	-
cis-1,3-Dichloropropene	ug/g	NV	NV	ND(0.030)	ND(0.030)	ND(0.030)	ND(0.030)	-
cis/trans-1,3-Dichloropropene	ug/g	0.21	0.21	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	-
Dibromochloromethane	ug/g	13	13	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	-
Dichlorodifluoromethane (CFC-12)	ug/g	25	25	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	-
Ethylbenzene	ug/g	19	19	ND(0.015)	ND(0.015)	0.016	ND(0.015)	-
Hexane	ug/g	88	88	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	-
m&p-Xylenes	ug/g	NV	NV	ND(0.030)	ND(0.030)	ND(0.030)	ND(0.030)	-
Methyl tert butyl ether (MTBE)	ug/g	3.2	3.2	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	-
Methylene chloride	ug/g	2	2	ND(0.045)	ND(0.045)	ND(0.045)	ND(0.045)	-
o-Xylene	ug/g	NV	NV	ND(0.030)	ND(0.030)	ND(0.030)	ND(0.030)	-
Styrene	ug/g	43	43	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	-
Tetrachloroethene	ug/g	21	21	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	-
Toluene	ug/g	78	78	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	-
Total BTEX	ug/g	NV	NV	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)	-
trans-1,2-Dichloroethene	ug/g	9.3	9.3	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	-
trans-1,3-Dichloropropene	ug/g	NV	NV	ND(0.030)	ND(0.030)	ND(0.030)	ND(0.030)	-
Trichloroethene	ug/g	0.61	0.61	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	-
Trichlorofluoromethane (CFC-11)	ug/g	5.8	5.8	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	-
Vinyl chloride	ug/g	0.25	0.25	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	-
Xylenes (total)	ug/g	30	30	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	-

Table 6

Summary of Soil Analytical Results
Phase Two Environmental Site Assessment
2524 Cawthra Road, Mississauga, Ontario
The Corporation of the City of Mississauga

Sample Location:				BH10-22		BH11-22		BH12-22
Sample Identification:				S-12581540-220613-JB-BH10-22-1.5-1.8	S-12581540-220613-JB-BH10-22-1.5-1.8X	S-12581540-220613-JB-BH11-22-0.0-0.6	S-12581540-220613-JB-BH11-22-1.5-2.1	S-12581540-220610-JB-BH12-22-0.05-0.6
Sample Date:				06/13/2022	06/13/2022	06/13/2022	06/13/2022	06/10/2022
Sample Depth (mBGS):				1.50-1.80	1.50-1.80	0.00-0.60	1.50-2.10	0.05-0.60
Lab Certificate of Analysis:				WT2205639	WT2205639	WT2205639	WT2205639	WT2205480
Parameters	**Units**	**2011 MOE Standards**			***Field Duplicate***			
		Table 3 ICC[1]	**Table 7 ICC[2]**					
Semi-Volatile Organic Compounds								
1+2-Methylnaphthalene	ug/g	85	85	-	-	1.29	-	-
1-Methylnaphthalene	ug/g	85	85	-	-	0.670	-	-
2-Methylnaphthalene	ug/g	85	85	-	-	0.618	-	-
Acenaphthene	ug/g	96	96	-	-	1.96	-	-
Acenaphthylene	ug/g	0.17	0.17	-	-	**0.570**	-	-
Anthracene	ug/g	0.74	0.74	-	-	**8.21**	-	-
Benzo(a)anthracene	ug/g	0.96	0.96	-	-	**17.6**	-	-
Benzo(a)pyrene	ug/g	0.3	0.3	-	-	**14.8**	-	-
Benzo(b/j)fluoranthene	ug/g	0.96	0.96	-	-	**15.8**	-	-
Benzo(g,h,i)perylene	ug/g	9.6	9.6	-	-	6.16	-	-
Benzo(k)fluoranthene	ug/g	0.96	0.96	-	-	**8.73**	-	-
Chrysene	ug/g	9.6	9.6	-	-	**15.4**	-	-
Dibenz(a,h)anthracene	ug/g	0.1	0.1	-	-	**2.28**	-	-
Fluoranthene	ug/g	9.6	9.6	-	-	**39.1**	-	-
Fluorene	ug/g	69	69	-	-	3.74	-	-
Indeno(1,2,3-cd)pyrene	ug/g	0.95	0.95	-	-	**7.76**	-	-
Naphthalene	ug/g	28	28	-	-	0.958	-	-
Phenanthrene	ug/g	16	16	-	-	**30.7**	-	-
Pyrene	ug/g	96	96	-	-	29.6	-	-
Metals								
Antimony	ug/g	50	50	-	-	1.02	-	0.36
Arsenic	ug/g	18	18	-	-	7.06	-	10.2
Barium	ug/g	670	670	-	-	137	-	136
Beryllium	ug/g	10	10	-	-	0.42	-	0.33
Boron	ug/g	120	120	-	-	18.4	-	8.1
Boron (hot water soluble)	ug/g	2	2	-	-	1.57	-	0.43
Cadmium	ug/g	1.9	1.9	-	-	1.33	-	0.793
Calcium (soluble)	mg/L	NV	NV	-	-	8.05	-	12.4
Chromium	ug/g	160	160	-	-	98.1	-	15.2
Chromium VI (hexavalent)	ug/g	10	10	-	-	0.42	-	ND(0.66)
Cobalt	ug/g	100	100	-	-	6.82	-	5.88
Copper	ug/g	300	300	-	-	37.0	-	32.9
Lead	ug/g	120	120	-	-	115	-	53.5
Magnesium (soluble)	mg/L	NV	NV	-	-	0.59	-	1.34
Mercury	ug/g	20	20	-	-	0.0599	-	0.0187
Molybdenum	ug/g	40	40	-	-	3.28	-	1.05
Nickel	ug/g	340	340	-	-	18.9	-	14.0
Selenium	ug/g	5.5	5.5	-	-	0.30	-	ND(0.20)
Silver	ug/g	50	50	-	-	ND(0.50)	-	ND(0.10)
Sodium (soluble)	mg/L	NV	NV	-	-	130	-	39.7
Thallium	ug/g	3.3	3.3	-	-	0.121	-	0.086
Uranium	ug/g	33	33	-	-	0.930	-	0.392
Vanadium	ug/g	86	86	-	-	42.6	-	22.6
Zinc	ug/g	340	340	-	-	**472**	-	79.8

Table 6

Summary of Soil Analytical Results
Phase Two Environmental Site Assessment
2524 Cawthra Road, Mississauga, Ontario
The Corporation of the City of Mississauga

Sample Location:				BH10-22		BH11-22		BH12-22
Sample Identification:				S-12581540-220613-JB-BH10-22-1.5-1.8	S-12581540-220613-JB-BH10-22-1.5-1.8X	S-12581540-220613-JB-BH11-22-0.0-0.6	S-12581540-220613-JB-BH11-22-1.5-2.1	S-12581540-220610-JB-BH12-22-0.05-0.6
Sample Date:				06/13/2022	06/13/2022	06/13/2022	06/13/2022	06/10/2022
Sample Depth (mBGS):				1.50-1.80	1.50-1.80	0.00-0.60	1.50-2.10	0.05-0.60
Lab Certificate of Analysis:				WT2205639	WT2205639	WT2205639	WT2205639	WT2205480
Parameters	**Units**	**2011 MOE Standards**			***Field Duplicate***			
		Table 3 ICC[1]	**Table 7 ICC[2]**					
Polychlorinated Biphenyls (PCBs)								
Aroclor-1016 (PCB-1016)	ug/g	NV	NV	-	-	ND(0.010)	-	-
Aroclor-1221 (PCB-1221)	ug/g	NV	NV	-	-	ND(0.010)	-	-
Aroclor-1232 (PCB-1232)	ug/g	NV	NV	-	-	ND(0.010)	-	-
Aroclor-1242 (PCB-1242)	ug/g	NV	NV	-	-	ND(0.010)	-	-
Aroclor-1248 (PCB-1248)	ug/g	NV	NV	-	-	ND(0.010)	-	-
Aroclor-1254 (PCB-1254)	ug/g	NV	NV	-	-	0.055	-	-
Aroclor-1260 (PCB-1260)	ug/g	NV	NV	-	-	0.051	-	-
Aroclor-1262 (PCB-1262)	ug/g	NV	NV	-	-	ND(0.010)	-	-
Aroclor-1268 (PCB-1268)	ug/g	NV	NV	-	-	ND(0.010)	-	-
Total PCBs	ug/g	1.1	1.1	-	-	0.106	-	-
Petroleum Hydrocarbons (PHCs)								
PHCs F1 (C6-C10)	ug/g	65	65	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	-
PHCs F1 minus BTEX	ug/g	65	65	ND(5)	ND(5)	ND(5)	ND(5)	-
PHCs F2 (C10-C16)	ug/g	250	250	ND(10)	109	ND(66)	ND(62)	-
PHCs F2 minus Naphthalene	ug/g	250	250	-	-	ND(66)	-	-
PHCs F3 (C16-C34)	ug/g	2500	2500	51	ND(50)	1120	1190	-
PHCs F3 minus PAH	ug/g	2500	2500	-	-	954	-	-
PHCs F4 (C34-C50)	ug/g	6600	6600	118	ND(50)	2660	2600	-
PHCs F4 gravimetric - silica gel (GHH)	ug/g	6600	6600	-	-	**8590**	**8180**	-
Total PHCs (C6-C50)	ug/g	NV	NV	169	109	3780	3790	-
General Chemistry								
Conductivity	mS/cm	1.4	1.4	-	-	0.678	-	0.265
Cyanide, weak acid dissociable	ug/g	0.051	0.051	-	-	ND(0.050)	-	ND(0.050)
Moisture	%	NV	NV	13.2	8.69	6.62	12.8	6.08
pH, soluble (1:2)	s.u.	(5-11) 5-9	(5-11) 5-9	-	-	**9.53**	-	8.47
Sodium adsorption ratio (SAR)	none	12	12	-	-	11.9	-	2.86

Notes:

[1]	Ontario Ministry of Environment (MOE) Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition for Industrial/Commercial/Community Property Use with medium to fine textured soils, April 2011
[2]	MOE, Table 7: Generic Site Condition Standards for Shallow Soils in a Non-Potable Ground Water Condition for Industrial/Commercial/Community Property Use with medium to fine textured soils, April 2011
mBGS	metres Below Ground Surface
ug/g	micrograms per gram
mS/cm	milliSiemens per centimetre
%	percent
s.u.	standard units
NV	No value
ND(0.01)	Not detected at the associated reporting limit indicated in brackets
-	Not analyzed
RED	Concentration above MOE Table 3 Standards
	Concentration above MOE Table 7 Standards

Table 6

Summary of Soil Analytical Results
Phase Two Environmental Site Assessment
2524 Cawthra Road, Mississauga, Ontario
The Corporation of the City of Mississauga

			Sample Location:	**BH12-22**	**BH13-22**		**BH14-22**	
			Sample Identification:	**S-12581540-220610-JB-BH12-22-0.05-0.6**	**S-12581540-220610-JB-BH13-22-0.0-0.6**	**S-12581540-220610-JB-BH13-22-1.5-1.8**	**S-12581540-220610-JB-BH14-22-0.8-1.4**	**S-12581540-220610-JB-BH14-22-0.8-1.4**
			Sample Date:	**06/10/2022**	**06/10/2022**	**06/10/2022**	**06/10/2022**	**06/10/2022**
			Sample Depth (mBGS):	**0.05-0.60**	**0.00-0.60**	**1.50-1.80**	**0.80-1.40**	**0.80-1.40**
			Lab Certificate of Analysis:	**WT2205639**	**WT2205480**	**WT2205480**	**WT2205480**	**WT2205639**
Parameters	**Units**	**2011 MOE Standards**						
		Table 3 ICC[1]	**Table 7 ICC[2]**					
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	ug/g	0.11	0.11	ND(0.050)	ND(0.050)	ND(0.050)	-	ND(0.050)
1,1,1-Trichloroethane	ug/g	12	12	ND(0.050)	ND(0.050)	ND(0.050)	-	ND(0.050)
1,1,2,2-Tetrachloroethane	ug/g	0.094	0.094	ND(0.050)	ND(0.050)	ND(0.050)	-	ND(0.050)
1,1,2-Trichloroethane	ug/g	0.11	0.11	ND(0.050)	ND(0.050)	ND(0.050)	-	ND(0.050)
1,1-Dichloroethane	ug/g	21	21	ND(0.050)	ND(0.050)	ND(0.050)	-	ND(0.050)
1,1-Dichloroethene	ug/g	0.48	0.48	ND(0.050)	ND(0.050)	ND(0.050)	-	ND(0.050)
Ethylene dibromide	ug/g	0.05	0.05	ND(0.050)	ND(0.050)	ND(0.050)	-	ND(0.050)
1,2-Dichlorobenzene	ug/g	8.5	8.5	ND(0.050)	ND(0.050)	ND(0.050)	-	ND(0.050)
1,2-Dichloroethane	ug/g	0.05	0.05	ND(0.050)	ND(0.050)	ND(0.050)	-	ND(0.050)
1,2-Dichloropropane	ug/g	0.68	0.68	ND(0.050)	ND(0.050)	ND(0.050)	-	ND(0.050)
1,3-Dichlorobenzene	ug/g	12	12	ND(0.050)	ND(0.050)	ND(0.050)	-	ND(0.050)
1,4-Dichlorobenzene	ug/g	0.84	0.84	ND(0.050)	ND(0.050)	ND(0.050)	-	ND(0.050)
Methyl ethyl ketone	ug/g	88	88	ND(0.50)	ND(0.50)	ND(0.50)	-	ND(0.50)
Methyl isobutyl ketone	ug/g	210	210	ND(0.50)	ND(0.50)	ND(0.50)	-	ND(0.50)
Acetone	ug/g	28	28	ND(0.50)	ND(0.50)	ND(0.50)	-	ND(0.50)
Benzene	ug/g	0.4	0.4	ND(0.0050)	ND(0.0050)	ND(0.0050)	-	ND(0.0050)
Bromodichloromethane	ug/g	18	18	ND(0.050)	ND(0.050)	ND(0.050)	-	ND(0.050)
Bromoform	ug/g	1.7	1.7	ND(0.050)	ND(0.050)	ND(0.050)	-	ND(0.050)
Bromomethane (Methyl bromide)	ug/g	0.05	0.05	ND(0.050)	ND(0.050)	ND(0.050)	-	ND(0.050)
Carbon tetrachloride	ug/g	1.5	1.5	ND(0.050)	ND(0.050)	ND(0.050)	-	ND(0.050)
Chlorobenzene	ug/g	2.7	2.7	ND(0.050)	ND(0.050)	ND(0.050)	-	ND(0.050)
Chloroform (Trichloromethane)	ug/g	0.18	0.18	ND(0.050)	ND(0.050)	ND(0.050)	-	ND(0.050)
cis-1,2-Dichloroethene	ug/g	37	37	ND(0.050)	ND(0.050)	ND(0.050)	-	ND(0.050)
cis-1,3-Dichloropropene	ug/g	NV	NV	ND(0.030)	ND(0.030)	ND(0.030)	-	ND(0.030)
cis/trans-1,3-Dichloropropene	ug/g	0.21	0.21	ND(0.05)	ND(0.05)	ND(0.05)	-	ND(0.05)
Dibromochloromethane	ug/g	13	13	ND(0.050)	ND(0.050)	ND(0.050)	-	ND(0.050)
Dichlorodifluoromethane (CFC-12)	ug/g	25	25	ND(0.050)	ND(0.050)	ND(0.050)	-	ND(0.050)
Ethylbenzene	ug/g	19	19	ND(0.015)	ND(0.015)	ND(0.015)	-	ND(0.015)
Hexane	ug/g	88	88	ND(0.050)	ND(0.050)	ND(0.050)	-	ND(0.050)
m&p-Xylenes	ug/g	NV	NV	ND(0.030)	ND(0.030)	ND(0.030)	-	ND(0.030)
Methyl tert butyl ether (MTBE)	ug/g	3.2	3.2	ND(0.040)	ND(0.040)	ND(0.040)	-	ND(0.040)
Methylene chloride	ug/g	2	2	ND(0.045)	ND(0.045)	ND(0.045)	-	ND(0.045)
o-Xylene	ug/g	NV	NV	ND(0.030)	ND(0.030)	ND(0.030)	-	ND(0.030)
Styrene	ug/g	43	43	ND(0.050)	ND(0.050)	ND(0.050)	-	ND(0.050)
Tetrachloroethene	ug/g	21	21	ND(0.050)	ND(0.050)	ND(0.050)	-	ND(0.050)
Toluene	ug/g	78	78	ND(0.050)	ND(0.050)	ND(0.050)	-	ND(0.050)
Total BTEX	ug/g	NV	NV	ND(0.1)	ND(0.1)	ND(0.1)	-	ND(0.1)
trans-1,2-Dichloroethene	ug/g	9.3	9.3	ND(0.050)	ND(0.050)	ND(0.050)	-	ND(0.050)
trans-1,3-Dichloropropene	ug/g	NV	NV	ND(0.030)	ND(0.030)	ND(0.030)	-	ND(0.030)
Trichloroethene	ug/g	0.61	0.61	ND(0.010)	ND(0.010)	ND(0.010)	-	ND(0.010)
Trichlorofluoromethane (CFC-11)	ug/g	5.8	5.8	ND(0.050)	ND(0.050)	ND(0.050)	-	ND(0.050)
Vinyl chloride	ug/g	0.25	0.25	ND(0.020)	ND(0.020)	ND(0.020)	-	ND(0.020)
Xylenes (total)	ug/g	30	30	ND(0.05)	ND(0.05)	ND(0.05)	-	ND(0.05)

Table 6

Summary of Soil Analytical Results
Phase Two Environmental Site Assessment
2524 Cawthra Road, Mississauga, Ontario
The Corporation of the City of Mississauga

			Sample Location:	**BH12-22**	**BH13-22**		**BH14-22**	
			Sample Identification:	**S-12581540-220610-JB-BH12-22-0.05-0.6**	**S-12581540-220610-JB-BH13-22-0.0-0.6**	**S-12581540-220610-JB-BH13-22-1.5-1.8**	**S-12581540-220610-JB-BH14-22-0.8-1.4**	**S-12581540-220610-JB-BH14-22-0.8-1.4**
			Sample Date:	**06/10/2022**	**06/10/2022**	**06/10/2022**	**06/10/2022**	**06/10/2022**
			Sample Depth (mBGS):	**0.05-0.60**	**0.00-0.60**	**1.50-1.80**	**0.80-1.40**	**0.80-1.40**
			Lab Certificate of Analysis:	**WT2205639**	**WT2205480**	**WT2205480**	**WT2205480**	**WT2205639**
Parameters	**Units**	**2011 MOE Standards**						
		Table 3 ICC[1]	**Table 7 ICC[2]**					
Semi-Volatile Organic Compounds								
1+2-Methylnaphthalene	ug/g	85	85	-	ND(0.05)	-	-	-
1-Methylnaphthalene	ug/g	85	85	-	ND(0.030)	-	-	-
2-Methylnaphthalene	ug/g	85	85	-	ND(0.030)	-	-	-
Acenaphthene	ug/g	96	96	-	ND(0.050)	-	-	-
Acenaphthylene	ug/g	0.17	0.17	-	ND(0.050)	-	-	-
Anthracene	ug/g	0.74	0.74	-	ND(0.050)	-	-	-
Benzo(a)anthracene	ug/g	0.96	0.96	-	ND(0.050)	-	-	-
Benzo(a)pyrene	ug/g	0.3	0.3	-	ND(0.050)	-	-	-
Benzo(b/j)fluoranthene	ug/g	0.96	0.96	-	ND(0.050)	-	-	-
Benzo(g,h,i)perylene	ug/g	9.6	9.6	-	ND(0.050)	-	-	-
Benzo(k)fluoranthene	ug/g	0.96	0.96	-	ND(0.050)	-	-	-
Chrysene	ug/g	9.6	9.6	-	ND(0.050)	-	-	-
Dibenz(a,h)anthracene	ug/g	0.1	0.1	-	ND(0.050)	-	-	-
Fluoranthene	ug/g	9.6	9.6	-	ND(0.050)	-	-	-
Fluorene	ug/g	69	69	-	ND(0.050)	-	-	-
Indeno(1,2,3-cd)pyrene	ug/g	0.95	0.95	-	ND(0.050)	-	-	-
Naphthalene	ug/g	28	28	-	ND(0.010)	-	-	-
Phenanthrene	ug/g	16	16	-	ND(0.050)	-	-	-
Pyrene	ug/g	96	96	-	ND(0.050)	-	-	-
Metals								
Antimony	ug/g	50	50	-	0.84	-	0.18	-
Arsenic	ug/g	18	18	-	6.87	-	7.11	-
Barium	ug/g	670	670	-	130	-	164	-
Beryllium	ug/g	10	10	-	0.37	-	0.71	-
Boron	ug/g	120	120	-	9.3	-	9.3	-
Boron (hot water soluble)	ug/g	2	2	-	1.15	-	0.57	-
Cadmium	ug/g	1.9	1.9	-	0.592	-	0.089	-
Calcium (soluble)	mg/L	NV	NV	-	21.8	-	4.23	-
Chromium	ug/g	160	160	-	42.5	-	23.6	-
Chromium VI (hexavalent)	ug/g	10	10	-	ND(0.66)	-	ND(0.66)	-
Cobalt	ug/g	100	100	-	7.54	-	10.8	-
Copper	ug/g	300	300	-	27.1	-	37.9	-
Lead	ug/g	120	120	-	43.3	-	6.12	-
Magnesium (soluble)	mg/L	NV	NV	-	3.44	-	0.64	-
Mercury	ug/g	20	20	-	0.0209	-	0.0186	-
Molybdenum	ug/g	40	40	-	1.19	-	0.66	-
Nickel	ug/g	340	340	-	13.9	-	23.9	-
Selenium	ug/g	5.5	5.5	-	0.23	-	ND(0.20)	-
Silver	ug/g	50	50	-	ND(0.10)	-	ND(0.10)	-
Sodium (soluble)	mg/L	NV	NV	-	72.0	-	139	-
Thallium	ug/g	3.3	3.3	-	0.082	-	0.188	-
Uranium	ug/g	33	33	-	0.379	-	0.413	-
Vanadium	ug/g	86	86	-	41.4	-	34.7	-
Zinc	ug/g	340	340	-	75.1	-	51.9	-

Table 6

Summary of Soil Analytical Results
Phase Two Environmental Site Assessment
2524 Cawthra Road, Mississauga, Ontario
The Corporation of the City of Mississauga

			Sample Location:	**BH12-22**	**BH13-22**		**BH14-22**	
			Sample Identification:	**S-12581540-220610-JB-BH12-22-0.05-0.6**	**S-12581540-220610-JB-BH13-22-0.0-0.6**	**S-12581540-220610-JB-BH13-22-1.5-1.8**	**S-12581540-220610-JB-BH14-22-0.8-1.4**	**S-12581540-220610-JB-BH14-22-0.8-1.4**
			Sample Date:	**06/10/2022**	**06/10/2022**	**06/10/2022**	**06/10/2022**	**06/10/2022**
			Sample Depth (mBGS):	**0.05-0.60**	**0.00-0.60**	**1.50-1.80**	**0.80-1.40**	**0.80-1.40**
			Lab Certificate of Analysis:	**WT2205639**	**WT2205480**	**WT2205480**	**WT2205480**	**WT2205639**
Parameters	**Units**	**2011 MOE Standards**						
		Table 3 ICC[1]	**Table 7 ICC[2]**					
Polychlorinated Biphenyls (PCBs)								
Aroclor-1016 (PCB-1016)	ug/g	NV	NV	-	ND(0.010)	-	-	-
Aroclor-1221 (PCB-1221)	ug/g	NV	NV	-	ND(0.010)	-	-	-
Aroclor-1232 (PCB-1232)	ug/g	NV	NV	-	ND(0.010)	-	-	-
Aroclor-1242 (PCB-1242)	ug/g	NV	NV	-	ND(0.010)	-	-	-
Aroclor-1248 (PCB-1248)	ug/g	NV	NV	-	ND(0.010)	-	-	-
Aroclor-1254 (PCB-1254)	ug/g	NV	NV	-	ND(0.010)	-	-	-
Aroclor-1260 (PCB-1260)	ug/g	NV	NV	-	ND(0.010)	-	-	-
Aroclor-1262 (PCB-1262)	ug/g	NV	NV	-	ND(0.010)	-	-	-
Aroclor-1268 (PCB-1268)	ug/g	NV	NV	-	ND(0.010)	-	-	-
Total PCBs	ug/g	1.1	1.1	-	ND(0.030)	-	-	-
Petroleum Hydrocarbons (PHCs)								
PHCs F1 (C6-C10)	ug/g	65	65	ND(5.0)	ND(5.0)	ND(5.0)	-	ND(5.0)
PHCs F1 minus BTEX	ug/g	65	65	ND(5)	ND(5)	ND(5)	-	ND(5)
PHCs F2 (C10-C16)	ug/g	250	250	ND(10)	ND(60)	ND(10)	-	ND(10)
PHCs F2 minus Naphthalene	ug/g	250	250	-	ND(60)	-	-	-
PHCs F3 (C16-C34)	ug/g	2500	2500	ND(50)	630	63	-	ND(50)
PHCs F3 minus PAH	ug/g	2500	2500	-	630	-	-	-
PHCs F4 (C34-C50)	ug/g	6600	6600	ND(50)	2400	197	-	ND(50)
PHCs F4 gravimetric - silica gel (GHH)	ug/g	6600	6600	-	**10200**	880	-	-
Total PHCs (C6-C50)	ug/g	NV	NV	ND(80)	3030	260	-	ND(80)
General Chemistry								
Conductivity	mS/cm	1.4	1.4	-	0.501	-	0.690	-
Cyanide, weak acid dissociable	ug/g	0.051	0.051	-	ND(0.050)	-	ND(0.050)	-
Moisture	%	NV	NV	10.7	10.0	14.0	9.23	9.84
pH, soluble (1:2)	s.u.	(5-11) 5-9	(5-11) 5-9	-	7.17	-	8.03	-
Sodium adsorption ratio (SAR)	none	12	12	-	3.78	-	**16.6**	-

Notes:

[1]	Ontario Ministry of Environment (MOE) Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition for Industrial/Commercial/Community Property Use with medium to fine textured soils, April 2011
[2]	MOE, Table 7: Generic Site Condition Standards for Shallow Soils in a Non-Potable Ground Water Condition for Industrial/Commercial/Community Property Use with medium to fine textured soils, April 2011
mBGS	metres Below Ground Surface
ug/g	micrograms per gram
mS/cm	milliSiemens per centimetre
%	percent
s.u.	standard units
NV	No value
ND(0.01)	Not detected at the associated reporting limit indicated in brackets
-	Not analyzed
RED	Concentration above MOE Table 3 Standards
	Concentration above MOE Table 7 Standards

Table 6

Summary of Soil Analytical Results
Phase Two Environmental Site Assessment
2524 Cawthra Road, Mississauga, Ontario
The Corporation of the City of Mississauga

Sample Location:				**MW1-22**				**MW2-22**
Sample Identification:				**S-12581540-220606-JB-MW1-22-0.0 TO 0.6**	**S-12581540-220606-JB-MW1-22-0.0 TO 0.6X**	**S-12581540-220606-JB-MW1-22-1.5 TO 2.1**	**S-12581540-220606-JB-MW1-22-3.0 TO 3.3**	**S-12581540-220606-JB-MW2-22-0.0 TO 0.6**
Sample Date:				**06/06/2022**	**06/06/2022**	**06/06/2022**	**06/06/2022**	**06/06/2022**
Sample Depth (mBGS):				**0.00-0.60**	**0.00-0.60**	**1.50-2.10**	**3.00-3.30**	**0.00-0.60**
Lab Certificate of Analysis:				**WT2205302**	**WT2205302**	**WT2205302**	**WT2205302**	**WT2205302**
Parameters	**Units**	**2011 MOE Standards**			***Field Duplicate***			
		Table 3 ICC[1]	**Table 7 ICC[2]**					
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	ug/g	0.11	0.11	-	-	ND(0.050)	ND(0.050)	ND(0.050)
1,1,1-Trichloroethane	ug/g	12	12	-	-	ND(0.050)	ND(0.050)	ND(0.050)
1,1,2,2-Tetrachloroethane	ug/g	0.094	0.094	-	-	ND(0.050)	ND(0.050)	ND(0.050)
1,1,2-Trichloroethane	ug/g	0.11	0.11	-	-	ND(0.050)	ND(0.050)	ND(0.050)
1,1-Dichloroethane	ug/g	21	21	-	-	ND(0.050)	ND(0.050)	ND(0.050)
1,1-Dichloroethene	ug/g	0.48	0.48	-	-	ND(0.050)	ND(0.050)	ND(0.050)
Ethylene dibromide	ug/g	0.05	0.05	-	-	ND(0.050)	ND(0.050)	ND(0.050)
1,2-Dichlorobenzene	ug/g	8.5	8.5	-	-	ND(0.050)	ND(0.050)	ND(0.050)
1,2-Dichloroethane	ug/g	0.05	0.05	-	-	ND(0.050)	ND(0.050)	ND(0.050)
1,2-Dichloropropane	ug/g	0.68	0.68	-	-	ND(0.050)	ND(0.050)	ND(0.050)
1,3-Dichlorobenzene	ug/g	12	12	-	-	ND(0.050)	ND(0.050)	ND(0.050)
1,4-Dichlorobenzene	ug/g	0.84	0.84	-	-	ND(0.050)	ND(0.050)	ND(0.050)
Methyl ethyl ketone	ug/g	88	88	-	-	ND(0.50)	ND(0.50)	ND(0.50)
Methyl isobutyl ketone	ug/g	210	210	-	-	ND(0.50)	ND(0.50)	ND(0.50)
Acetone	ug/g	28	28	-	-	ND(0.50)	ND(0.50)	ND(0.50)
Benzene	ug/g	0.4	0.4	-	-	ND(0.0050)	0.0052	ND(0.0050)
Bromodichloromethane	ug/g	18	18	-	-	ND(0.050)	ND(0.050)	ND(0.050)
Bromoform	ug/g	1.7	1.7	-	-	ND(0.050)	ND(0.050)	ND(0.050)
Bromomethane (Methyl bromide)	ug/g	0.05	0.05	-	-	ND(0.050)	ND(0.050)	ND(0.050)
Carbon tetrachloride	ug/g	1.5	1.5	-	-	ND(0.050)	ND(0.050)	ND(0.050)
Chlorobenzene	ug/g	2.7	2.7	-	-	ND(0.050)	ND(0.050)	ND(0.050)
Chloroform (Trichloromethane)	ug/g	0.18	0.18	-	-	ND(0.050)	ND(0.050)	ND(0.050)
cis-1,2-Dichloroethene	ug/g	37	37	-	-	ND(0.050)	ND(0.050)	ND(0.050)
cis-1,3-Dichloropropene	ug/g	NV	NV	-	-	ND(0.030)	ND(0.030)	ND(0.030)
cis/trans-1,3-Dichloropropene	ug/g	0.21	0.21	-	-	ND(0.05)	ND(0.05)	ND(0.05)
Dibromochloromethane	ug/g	13	13	-	-	ND(0.050)	ND(0.050)	ND(0.050)
Dichlorodifluoromethane (CFC-12)	ug/g	25	25	-	-	ND(0.050)	ND(0.050)	ND(0.050)
Ethylbenzene	ug/g	19	19	-	-	ND(0.015)	ND(0.015)	ND(0.015)
Hexane	ug/g	88	88	-	-	ND(0.050)	ND(0.050)	ND(0.050)
m&p-Xylenes	ug/g	NV	NV	-	-	ND(0.030)	ND(0.030)	ND(0.030)
Methyl tert butyl ether (MTBE)	ug/g	3.2	3.2	-	-	ND(0.040)	ND(0.040)	ND(0.040)
Methylene chloride	ug/g	2	2	-	-	ND(0.045)	ND(0.045)	ND(0.045)
o-Xylene	ug/g	NV	NV	-	-	ND(0.030)	ND(0.030)	ND(0.030)
Styrene	ug/g	43	43	-	-	ND(0.050)	ND(0.050)	ND(0.050)
Tetrachloroethene	ug/g	21	21	-	-	ND(0.050)	ND(0.050)	ND(0.050)
Toluene	ug/g	78	78	-	-	ND(0.050)	ND(0.050)	ND(0.050)
Total BTEX	ug/g	NV	NV	-	-	ND(0.1)	ND(0.1)	ND(0.1)
trans-1,2-Dichloroethene	ug/g	9.3	9.3	-	-	ND(0.050)	ND(0.050)	ND(0.050)
trans-1,3-Dichloropropene	ug/g	NV	NV	-	-	ND(0.030)	ND(0.030)	ND(0.030)
Trichloroethene	ug/g	0.61	0.61	-	-	ND(0.010)	ND(0.010)	ND(0.010)
Trichlorofluoromethane (CFC-11)	ug/g	5.8	5.8	-	-	ND(0.050)	ND(0.050)	ND(0.050)
Vinyl chloride	ug/g	0.25	0.25	-	-	ND(0.020)	ND(0.020)	ND(0.020)
Xylenes (total)	ug/g	30	30	-	-	ND(0.05)	ND(0.05)	ND(0.05)

Table 6

Summary of Soil Analytical Results
Phase Two Environmental Site Assessment
2524 Cawthra Road, Mississauga, Ontario
The Corporation of the City of Mississauga

Sample Location:				MW1-22				MW2-22
Sample Identification:				S-12581540-220606-JB-MW1-22-0.0 TO 0.6	S-12581540-220606-JB-MW1-22-0.0 TO 0.6X	S-12581540-220606-JB-MW1-22-1.5 TO 2.1	S-12581540-220606-JB-MW1-22-3.0 TO 3.3	S-12581540-220606-JB-MW2-22-0.0 TO 0.6
Sample Date:				06/06/2022	06/06/2022	06/06/2022	06/06/2022	06/06/2022
Sample Depth (mBGS):				0.00-0.60	0.00-0.60	1.50-2.10	3.00-3.30	0.00-0.60
Lab Certificate of Analysis:				WT2205302	WT2205302	WT2205302	WT2205302	WT2205302
Parameters	**Units**	**2011 MOE Standards**			***Field Duplicate***			
		Table 3 ICC[1]	**Table 7 ICC[2]**					
Semi-Volatile Organic Compounds								
1+2-Methylnaphthalene	ug/g	85	85	-	-	ND(0.05)	-	ND(0.05)
1-Methylnaphthalene	ug/g	85	85	-	-	ND(0.030)	-	ND(0.030)
2-Methylnaphthalene	ug/g	85	85	-	-	ND(0.030)	-	ND(0.030)
Acenaphthene	ug/g	96	96	-	-	ND(0.050)	-	ND(0.050)
Acenaphthylene	ug/g	0.17	0.17	-	-	ND(0.050)	-	ND(0.050)
Anthracene	ug/g	0.74	0.74	-	-	ND(0.050)	-	ND(0.050)
Benzo(a)anthracene	ug/g	0.96	0.96	-	-	ND(0.050)	-	0.095
Benzo(a)pyrene	ug/g	0.3	0.3	-	-	ND(0.050)	-	0.137
Benzo(b/j)fluoranthene	ug/g	0.96	0.96	-	-	ND(0.050)	-	0.156
Benzo(g,h,i)perylene	ug/g	9.6	9.6	-	-	ND(0.050)	-	0.105
Benzo(k)fluoranthene	ug/g	0.96	0.96	-	-	ND(0.050)	-	0.066
Chrysene	ug/g	9.6	9.6	-	-	ND(0.050)	-	0.103
Dibenz(a,h)anthracene	ug/g	0.1	0.1	-	-	ND(0.050)	-	ND(0.050)
Fluoranthene	ug/g	9.6	9.6	-	-	ND(0.050)	-	0.180
Fluorene	ug/g	69	69	-	-	ND(0.050)	-	ND(0.050)
Indeno(1,2,3-cd)pyrene	ug/g	0.95	0.95	-	-	ND(0.050)	-	0.105
Naphthalene	ug/g	28	28	-	-	ND(0.010)	-	0.012
Phenanthrene	ug/g	16	16	-	-	ND(0.050)	-	0.077
Pyrene	ug/g	96	96	-	-	ND(0.050)	-	0.170
Metals								
Antimony	ug/g	50	50	1.26	1.58	-	-	0.74
Arsenic	ug/g	18	18	3.87	4.78	-	-	5.49
Barium	ug/g	670	670	50.2	60.3	-	-	43.1
Beryllium	ug/g	10	10	0.17	0.22	-	-	0.27
Boron	ug/g	120	120	6.2	8.0	-	-	ND(5.0)
Boron (hot water soluble)	ug/g	2	2	0.36	0.54	-	-	0.24
Cadmium	ug/g	1.9	1.9	0.266	0.288	-	-	0.504
Calcium (soluble)	mg/L	NV	NV	34.0	36.1	-	-	17.4
Chromium	ug/g	160	160	71.8	82.1	-	-	16.9
Chromium VI (hexavalent)	ug/g	10	10	1.58	1.74	-	-	1.23
Cobalt	ug/g	100	100	3.84	4.62	-	-	4.33
Copper	ug/g	300	300	44.5	48.5	-	-	27.4
Lead	ug/g	120	120	17.8	19.1	-	-	59.9
Magnesium (soluble)	mg/L	NV	NV	1.08	1.29	-	-	1.12
Mercury	ug/g	20	20	0.0072	0.0082	-	-	0.0382
Molybdenum	ug/g	40	40	3.40	3.91	-	-	1.08
Nickel	ug/g	340	340	12.9	15.6	-	-	11.1
Selenium	ug/g	5.5	5.5	ND(0.20)	ND(0.20)	-	-	ND(0.20)
Silver	ug/g	50	50	ND(0.10)	ND(0.10)	-	-	ND(0.10)
Sodium (soluble)	mg/L	NV	NV	14.4	14.9	-	-	5.80
Thallium	ug/g	3.3	3.3	0.211	0.288	-	-	0.058
Uranium	ug/g	33	33	0.297	0.358	-	-	0.434
Vanadium	ug/g	86	86	47.8	61.1	-	-	19.5
Zinc	ug/g	340	340	133	134	-	-	84.5

Table 6

Summary of Soil Analytical Results
Phase Two Environmental Site Assessment
2524 Cawthra Road, Mississauga, Ontario
The Corporation of the City of Mississauga

			Sample Location:	**MW1-22**				**MW2-22**
			Sample Identification:	**S-12581540-220606-JB-MW1-22-0.0 TO 0.6**	**S-12581540-220606-JB-MW1-22-0.0 TO 0.6X**	**S-12581540-220606-JB-MW1-22-1.5 TO 2.1**	**S-12581540-220606-JB-MW1-22-3.0 TO 3.3**	**S-12581540-220606-JB-MW2-22-0.0 TO 0.6**
			Sample Date:	**06/06/2022**	**06/06/2022**	**06/06/2022**	**06/06/2022**	**06/06/2022**
			Sample Depth (mBGS):	**0.00-0.60**	**0.00-0.60**	**1.50-2.10**	**3.00-3.30**	**0.00-0.60**
			Lab Certificate of Analysis:	**WT2205302**	**WT2205302**	**WT2205302**	**WT2205302**	**WT2205302**
Parameters	**Units**	**2011 MOE Standards**			***Field Duplicate***			
		Table 3 ICC[1]	**Table 7 ICC[2]**					
Polychlorinated Biphenyls (PCBs)								
Aroclor-1016 (PCB-1016)	ug/g	NV	NV	ND(0.100)	-	-	-	-
Aroclor-1221 (PCB-1221)	ug/g	NV	NV	ND(0.100)	-	-	-	-
Aroclor-1232 (PCB-1232)	ug/g	NV	NV	ND(0.100)	-	-	-	-
Aroclor-1242 (PCB-1242)	ug/g	NV	NV	ND(0.100)	-	-	-	-
Aroclor-1248 (PCB-1248)	ug/g	NV	NV	ND(0.100)	-	-	-	-
Aroclor-1254 (PCB-1254)	ug/g	NV	NV	ND(0.100)	-	-	-	-
Aroclor-1260 (PCB-1260)	ug/g	NV	NV	ND(0.100)	-	-	-	-
Aroclor-1262 (PCB-1262)	ug/g	NV	NV	ND(0.100)	-	-	-	-
Aroclor-1268 (PCB-1268)	ug/g	NV	NV	ND(0.100)	-	-	-	-
Total PCBs	ug/g	1.1	1.1	ND(0.300)	-	-	-	-
Petroleum Hydrocarbons (PHCs)								
PHCs F1 (C6-C10)	ug/g	65	65	-	-	ND(5.0)	ND(5.0)	ND(5.0)
PHCs F1 minus BTEX	ug/g	65	65	-	-	ND(5)	ND(5)	ND(5)
PHCs F2 (C10-C16)	ug/g	250	250	-	-	ND(10)	ND(10)	ND(10)
PHCs F2 minus Naphthalene	ug/g	250	250	-	-	ND(25)	-	ND(25)
PHCs F3 (C16-C34)	ug/g	2500	2500	-	-	ND(50)	ND(50)	571
PHCs F3 minus PAH	ug/g	2500	2500	-	-	ND(50)	-	570
PHCs F4 (C34-C50)	ug/g	6600	6600	-	-	ND(50)	ND(50)	250
PHCs F4 gravimetric - silica gel (GHH)	ug/g	6600	6600	-	-	-	-	1170
Total PHCs (C6-C50)	ug/g	NV	NV	-	-	ND(80)	ND(80)	821
General Chemistry								
Conductivity	mS/cm	1.4	1.4	0.266	0.268	-	-	0.138
Cyanide, weak acid dissociable	ug/g	0.051	0.051	ND(0.050)	ND(0.050)	-	-	ND(0.050)
Moisture	%	NV	NV	6.84	7.00	15.0	7.07	11.9
pH, soluble (1:2)	s.u.	(5-11) 5-9	(5-11) 5-9	**10.4**	7.65	-	-	**11.1**
Sodium adsorption ratio (SAR)	none	12	12	0.66	0.66	-	-	0.36

Notes:

(1)	Ontario Ministry of Environment (MOE) Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition for Industrial/Commercial/Community Property Use with medium to fine textured soils, April 2011
(2)	MOE, Table 7: Generic Site Condition Standards for Shallow Soils in a Non-Potable Ground Water Condition for Industrial/Commercial/Community Property Use with medium to fine textured soils, April 2011
mBGS	metres Below Ground Surface
ug/g	micrograms per gram
mS/cm	milliSiemens per centimetre
%	percent
s.u.	standard units
NV	No value
ND(0.01)	Not detected at the associated reporting limit indicated in brackets
-	Not analyzed
RED	Concentration above MOE Table 3 Standards
	Concentration above MOE Table 7 Standards

Table 6

Summary of Soil Analytical Results
Phase Two Environmental Site Assessment
2524 Cawthra Road, Mississauga, Ontario
The Corporation of the City of Mississauga

			Sample Location:	**MW2-22**	**MW3-22**			
			Sample Identification:	**S-12581540-220606-JB-MW2-22-0.7 TO 1.3**	**S-12581540-220606-JB-MW3-22-0.0 TO 0.6**	**S-12581540-220606-JB-MW3-22-0.0 TO 0.6X**	**S-12581540-220606-JB-MW3-22-0.7 TO 1.3**	**S-12581540-220606-JB-MW2-22-2.3 TO 2.5**
			Sample Date:	**06/06/2022**	**06/06/2022**	**06/06/2022**	**06/06/2022**	**06/06/2022**
			Sample Depth (mBGS):	**0.70-1.30**	**0.00-0.60**	**0.00-0.60**	**0.70-1.30**	**2.30-2.50**
			Lab Certificate of Analysis:	**WT2205302**	**WT2205302**	**WT2205302**	**WT2205302**	**WT2205302**
Parameters	**Units**	**2011 MOE Standards**				***Field Duplicate***		
		Table 3 ICC[1]	**Table 7 ICC[2]**					
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	ug/g	0.11	0.11	-	-	-	ND(0.050)	ND(0.050)
1,1,1-Trichloroethane	ug/g	12	12	-	-	-	ND(0.050)	ND(0.050)
1,1,2,2-Tetrachloroethane	ug/g	0.094	0.094	-	-	-	ND(0.050)	ND(0.050)
1,1,2-Trichloroethane	ug/g	0.11	0.11	-	-	-	ND(0.050)	ND(0.050)
1,1-Dichloroethane	ug/g	21	21	-	-	-	ND(0.050)	ND(0.050)
1,1-Dichloroethene	ug/g	0.48	0.48	-	-	-	ND(0.050)	ND(0.050)
Ethylene dibromide	ug/g	0.05	0.05	-	-	-	ND(0.050)	ND(0.050)
1,2-Dichlorobenzene	ug/g	8.5	8.5	-	-	-	ND(0.050)	ND(0.050)
1,2-Dichloroethane	ug/g	0.05	0.05	-	-	-	ND(0.050)	ND(0.050)
1,2-Dichloropropane	ug/g	0.68	0.68	-	-	-	ND(0.050)	ND(0.050)
1,3-Dichlorobenzene	ug/g	12	12	-	-	-	ND(0.050)	ND(0.050)
1,4-Dichlorobenzene	ug/g	0.84	0.84	-	-	-	ND(0.050)	ND(0.050)
Methyl ethyl ketone	ug/g	88	88	-	-	-	ND(0.50)	ND(0.50)
Methyl isobutyl ketone	ug/g	210	210	-	-	-	ND(0.50)	ND(0.50)
Acetone	ug/g	28	28	-	-	-	ND(0.50)	ND(0.50)
Benzene	ug/g	0.4	0.4	-	-	-	ND(0.0050)	ND(0.0050)
Bromodichloromethane	ug/g	18	18	-	-	-	ND(0.050)	ND(0.050)
Bromoform	ug/g	1.7	1.7	-	-	-	ND(0.050)	ND(0.050)
Bromomethane (Methyl bromide)	ug/g	0.05	0.05	-	-	-	ND(0.050)	ND(0.050)
Carbon tetrachloride	ug/g	1.5	1.5	-	-	-	ND(0.050)	ND(0.050)
Chlorobenzene	ug/g	2.7	2.7	-	-	-	ND(0.050)	ND(0.050)
Chloroform (Trichloromethane)	ug/g	0.18	0.18	-	-	-	ND(0.050)	ND(0.050)
cis-1,2-Dichloroethene	ug/g	37	37	-	-	-	ND(0.050)	ND(0.050)
cis-1,3-Dichloropropene	ug/g	NV	NV	-	-	-	ND(0.030)	ND(0.030)
cis/trans-1,3-Dichloropropene	ug/g	0.21	0.21	-	-	-	ND(0.05)	ND(0.05)
Dibromochloromethane	ug/g	13	13	-	-	-	ND(0.050)	ND(0.050)
Dichlorodifluoromethane (CFC-12)	ug/g	25	25	-	-	-	ND(0.050)	ND(0.050)
Ethylbenzene	ug/g	19	19	-	-	-	ND(0.015)	ND(0.015)
Hexane	ug/g	88	88	-	-	-	ND(0.050)	ND(0.050)
m&p-Xylenes	ug/g	NV	NV	-	-	-	ND(0.030)	ND(0.030)
Methyl tert butyl ether (MTBE)	ug/g	3.2	3.2	-	-	-	ND(0.040)	ND(0.040)
Methylene chloride	ug/g	2	2	-	-	-	ND(0.045)	ND(0.045)
o-Xylene	ug/g	NV	NV	-	-	-	ND(0.030)	ND(0.030)
Styrene	ug/g	43	43	-	-	-	ND(0.050)	ND(0.050)
Tetrachloroethene	ug/g	21	21	-	-	-	ND(0.050)	ND(0.050)
Toluene	ug/g	78	78	-	-	-	ND(0.050)	ND(0.050)
Total BTEX	ug/g	NV	NV	-	-	-	ND(0.1)	ND(0.1)
trans-1,2-Dichloroethene	ug/g	9.3	9.3	-	-	-	ND(0.050)	ND(0.050)
trans-1,3-Dichloropropene	ug/g	NV	NV	-	-	-	ND(0.030)	ND(0.030)
Trichloroethene	ug/g	0.61	0.61	-	-	-	ND(0.010)	ND(0.010)
Trichlorofluoromethane (CFC-11)	ug/g	5.8	5.8	-	-	-	ND(0.050)	ND(0.050)
Vinyl chloride	ug/g	0.25	0.25	-	-	-	ND(0.020)	ND(0.020)
Xylenes (total)	ug/g	30	30	-	-	-	ND(0.05)	ND(0.05)

Table 6

Summary of Soil Analytical Results
Phase Two Environmental Site Assessment
2524 Cawthra Road, Mississauga, Ontario
The Corporation of the City of Mississauga

Sample Location:				**MW2-22**	**MW3-22**			
Sample Identification:				**S-12581540-220606-JB-MW2-22-0.7 TO 1.3**	**S-12581540-220606-JB-MW3-22-0.0 TO 0.6**	**S-12581540-220606-JB-MW3-22-0.0 TO 0.6X**	**S-12581540-220606-JB-MW3-22-0.7 TO 1.3**	**S-12581540-220606-JB-MW2-22-2.3 TO 2.5**
Sample Date:				**06/06/2022**	**06/06/2022**	**06/06/2022**	**06/06/2022**	**06/06/2022**
Sample Depth (mBGS):				**0.70-1.30**	**0.00-0.60**	**0.00-0.60**	**0.70-1.30**	**2.30-2.50**
Lab Certificate of Analysis:				**WT2205302**	**WT2205302**	**WT2205302**	**WT2205302**	**WT2205302**
Parameters	**Units**	**2011 MOE Standards**				***Field Duplicate***		
		Table 3 ICC[1]	**Table 7 ICC[2]**					
Semi-Volatile Organic Compounds								
1+2-Methylnaphthalene	ug/g	85	85	-	-	-	ND(0.05)	-
1-Methylnaphthalene	ug/g	85	85	-	-	-	ND(0.030)	-
2-Methylnaphthalene	ug/g	85	85	-	-	-	ND(0.030)	-
Acenaphthene	ug/g	96	96	-	-	-	ND(0.050)	-
Acenaphthylene	ug/g	0.17	0.17	-	-	-	ND(0.050)	-
Anthracene	ug/g	0.74	0.74	-	-	-	ND(0.050)	-
Benzo(a)anthracene	ug/g	0.96	0.96	-	-	-	ND(0.050)	-
Benzo(a)pyrene	ug/g	0.3	0.3	-	-	-	ND(0.050)	-
Benzo(b/j)fluoranthene	ug/g	0.96	0.96	-	-	-	ND(0.050)	-
Benzo(g,h,i)perylene	ug/g	9.6	9.6	-	-	-	ND(0.050)	-
Benzo(k)fluoranthene	ug/g	0.96	0.96	-	-	-	ND(0.050)	-
Chrysene	ug/g	9.6	9.6	-	-	-	ND(0.050)	-
Dibenz(a,h)anthracene	ug/g	0.1	0.1	-	-	-	ND(0.050)	-
Fluoranthene	ug/g	9.6	9.6	-	-	-	0.054	-
Fluorene	ug/g	69	69	-	-	-	ND(0.050)	-
Indeno(1,2,3-cd)pyrene	ug/g	0.95	0.95	-	-	-	ND(0.050)	-
Naphthalene	ug/g	28	28	-	-	-	ND(0.010)	-
Phenanthrene	ug/g	16	16	-	-	-	ND(0.050)	-
Pyrene	ug/g	96	96	-	-	-	ND(0.050)	-
Metals								
Antimony	ug/g	50	50	-	0.39	-	-	-
Arsenic	ug/g	18	18	-	4.50	-	-	-
Barium	ug/g	670	670	-	89.6	-	-	-
Beryllium	ug/g	10	10	-	0.29	-	-	-
Boron	ug/g	120	120	-	14.8	-	-	-
Boron (hot water soluble)	ug/g	2	2	-	0.84	-	-	-
Cadmium	ug/g	1.9	1.9	-	0.429	-	-	-
Calcium (soluble)	mg/L	NV	NV	-	79.1	-	-	-
Chromium	ug/g	160	160	-	85.0	-	-	-
Chromium VI (hexavalent)	ug/g	10	10	-	2.68	-	-	-
Cobalt	ug/g	100	100	-	4.07	-	-	-
Copper	ug/g	300	300	-	27.2	-	-	-
Lead	ug/g	120	120	-	26.5	-	-	-
Magnesium (soluble)	mg/L	NV	NV	-	ND(0.50)	-	-	-
Mercury	ug/g	20	20	-	0.0149	-	-	-
Molybdenum	ug/g	40	40	-	1.87	-	-	-
Nickel	ug/g	340	340	-	12.2	-	-	-
Selenium	ug/g	5.5	5.5	-	ND(0.20)	-	-	-
Silver	ug/g	50	50	-	ND(0.10)	-	-	-
Sodium (soluble)	mg/L	NV	NV	-	87.7	-	-	-
Thallium	ug/g	3.3	3.3	-	0.069	-	-	-
Uranium	ug/g	33	33	-	0.484	-	-	-
Vanadium	ug/g	86	86	-	58.1	-	-	-
Zinc	ug/g	340	340	-	114	-	-	-

Table 6

Summary of Soil Analytical Results
Phase Two Environmental Site Assessment
2524 Cawthra Road, Mississauga, Ontario
The Corporation of the City of Mississauga

			Sample Location:	**MW2-22**	**MW3-22**			
			Sample Identification:	**S-12581540-220606-JB-MW2-22-0.7 TO 1.3**	**S-12581540-220606-JB-MW3-22-0.0 TO 0.6**	**S-12581540-220606-JB-MW3-22-0.0 TO 0.6X**	**S-12581540-220606-JB-MW3-22-0.7 TO 1.3**	**S-12581540-220606-JB-MW2-22-2.3 TO 2.5**
			Sample Date:	**06/06/2022**	**06/06/2022**	**06/06/2022**	**06/06/2022**	**06/06/2022**
			Sample Depth (mBGS):	**0.70-1.30**	**0.00-0.60**	**0.00-0.60**	**0.70-1.30**	**2.30-2.50**
			Lab Certificate of Analysis:	**WT2205302**	**WT2205302**	**WT2205302**	**WT2205302**	**WT2205302**
Parameters	**Units**	**2011 MOE Standards**				***Field Duplicate***		
		Table 3 ICC[1]	**Table 7 ICC[2]**					
Polychlorinated Biphenyls (PCBs)								
Aroclor-1016 (PCB-1016)	ug/g	NV	NV	ND(0.010)	ND(0.100)	ND(0.100)	-	-
Aroclor-1221 (PCB-1221)	ug/g	NV	NV	ND(0.010)	ND(0.100)	ND(0.100)	-	-
Aroclor-1232 (PCB-1232)	ug/g	NV	NV	ND(0.010)	ND(0.100)	ND(0.100)	-	-
Aroclor-1242 (PCB-1242)	ug/g	NV	NV	ND(0.010)	ND(0.100)	ND(0.100)	-	-
Aroclor-1248 (PCB-1248)	ug/g	NV	NV	ND(0.010)	ND(0.100)	ND(0.100)	-	-
Aroclor-1254 (PCB-1254)	ug/g	NV	NV	ND(0.010)	ND(0.100)	ND(0.100)	-	-
Aroclor-1260 (PCB-1260)	ug/g	NV	NV	ND(0.010)	ND(0.100)	ND(0.100)	-	-
Aroclor-1262 (PCB-1262)	ug/g	NV	NV	ND(0.010)	ND(0.100)	ND(0.100)	-	-
Aroclor-1268 (PCB-1268)	ug/g	NV	NV	ND(0.010)	ND(0.100)	ND(0.100)	-	-
Total PCBs	ug/g	1.1	1.1	ND(0.030)	ND(0.300)	ND(0.300)	-	-
Petroleum Hydrocarbons (PHCs)								
PHCs F1 (C6-C10)	ug/g	65	65	-	-	-	ND(5.0)	ND(5.0)
PHCs F1 minus BTEX	ug/g	65	65	-	-	-	ND(5)	ND(5)
PHCs F2 (C10-C16)	ug/g	250	250	-	-	-	ND(10)	ND(10)
PHCs F2 minus Naphthalene	ug/g	250	250	-	-	-	ND(25)	-
PHCs F3 (C16-C34)	ug/g	2500	2500	-	-	-	157	ND(50)
PHCs F3 minus PAH	ug/g	2500	2500	-	-	-	157	-
PHCs F4 (C34-C50)	ug/g	6600	6600	-	-	-	340	ND(50)
PHCs F4 gravimetric - silica gel (GHH)	ug/g	6600	6600	-	-	-	920	-
Total PHCs (C6-C50)	ug/g	NV	NV	-	-	-	497	ND(80)
General Chemistry								
Conductivity	mS/cm	1.4	1.4	-	0.817	-	-	-
Cyanide, weak acid dissociable	ug/g	0.051	0.051	-	ND(0.050)	-	-	-
Moisture	%	NV	NV	7.02	8.71	6.46	18.8	8.84
pH, soluble (1:2)	s.u.	(5-11) 5-9	(5-11) 5-9	-	7.82	-	-	-
Sodium adsorption ratio (SAR)	none	12	12	-	2.72	-	-	-

Notes:

[1]	Ontario Ministry of Environment (MOE) Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition for Industrial/Commercial/Community Property Use with medium to fine textured soils, April 2011
[2]	MOE, Table 7: Generic Site Condition Standards for Shallow Soils in a Non-Potable Ground Water Condition for Industrial/Commercial/Community Property Use with medium to fine textured soils, April 2011
mBGS	metres Below Ground Surface
ug/g	micrograms per gram
mS/cm	milliSiemens per centimetre
%	percent
s.u.	standard units
NV	No value
ND(0.01)	Not detected at the associated reporting limit indicated in brackets
-	Not analyzed
RED	Concentration above MOE Table 3 Standards
	Concentration above MOE Table 7 Standards

Table 6

Summary of Soil Analytical Results
Phase Two Environmental Site Assessment
2524 Cawthra Road, Mississauga, Ontario
The Corporation of the City of Mississauga

Sample Location:				**MW3-22**		**MW4-22**	
Sample Identification:				**S-12581540-220606-JB-MW3-22-2.3 TO 2.7**	**S-12581540-220606-JB-MW3-22-2.3 TO 2.7X**	**S-12581540-220610-JB-MW4-22-0.05-0.6**	**S-12581540-220610-JB-MW4-22-1.5-2.1**
Sample Date:				**06/06/2022**	**06/06/2022**	**06/10/2022**	**06/10/2022**
Sample Depth (mBGS):				**2.30-2.70**	**2.30-2.70**	**0.05-0.60**	**1.50-2.10**
Lab Certificate of Analysis:				**WT2205302**	**WT2205302**	**WT2205480**	**WT2205480**
Parameters	**Units**	**2011 MOE Standards**			***Field Duplicate***		
		Table 3 ICC[1]	**Table 7 ICC[2]**				
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	ug/g	0.11	0.11	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
1,1,1-Trichloroethane	ug/g	12	12	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
1,1,2,2-Tetrachloroethane	ug/g	0.094	0.094	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
1,1,2-Trichloroethane	ug/g	0.11	0.11	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
1,1-Dichloroethane	ug/g	21	21	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
1,1-Dichloroethene	ug/g	0.48	0.48	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Ethylene dibromide	ug/g	0.05	0.05	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
1,2-Dichlorobenzene	ug/g	8.5	8.5	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
1,2-Dichloroethane	ug/g	0.05	0.05	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
1,2-Dichloropropane	ug/g	0.68	0.68	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
1,3-Dichlorobenzene	ug/g	12	12	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
1,4-Dichlorobenzene	ug/g	0.84	0.84	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Methyl ethyl ketone	ug/g	88	88	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)
Methyl isobutyl ketone	ug/g	210	210	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)
Acetone	ug/g	28	28	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)
Benzene	ug/g	0.4	0.4	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Bromodichloromethane	ug/g	18	18	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Bromoform	ug/g	1.7	1.7	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Bromomethane (Methyl bromide)	ug/g	0.05	0.05	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Carbon tetrachloride	ug/g	1.5	1.5	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Chlorobenzene	ug/g	2.7	2.7	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Chloroform (Trichloromethane)	ug/g	0.18	0.18	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
cis-1,2-Dichloroethene	ug/g	37	37	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
cis-1,3-Dichloropropene	ug/g	NV	NV	ND(0.030)	ND(0.030)	ND(0.030)	ND(0.030)
cis/trans-1,3-Dichloropropene	ug/g	0.21	0.21	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
Dibromochloromethane	ug/g	13	13	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Dichlorodifluoromethane (CFC-12)	ug/g	25	25	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Ethylbenzene	ug/g	19	19	ND(0.015)	ND(0.015)	ND(0.015)	ND(0.015)
Hexane	ug/g	88	88	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
m&p-Xylenes	ug/g	NV	NV	ND(0.030)	ND(0.030)	ND(0.030)	ND(0.030)
Methyl tert butyl ether (MTBE)	ug/g	3.2	3.2	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)
Methylene chloride	ug/g	2	2	ND(0.045)	ND(0.045)	ND(0.045)	ND(0.045)
o-Xylene	ug/g	NV	NV	ND(0.030)	ND(0.030)	ND(0.030)	ND(0.030)
Styrene	ug/g	43	43	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Tetrachloroethene	ug/g	21	21	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Toluene	ug/g	78	78	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Total BTEX	ug/g	NV	NV	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)
trans-1,2-Dichloroethene	ug/g	9.3	9.3	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
trans-1,3-Dichloropropene	ug/g	NV	NV	ND(0.030)	ND(0.030)	ND(0.030)	ND(0.030)
Trichloroethene	ug/g	0.61	0.61	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Trichlorofluoromethane (CFC-11)	ug/g	5.8	5.8	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Vinyl chloride	ug/g	0.25	0.25	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
Xylenes (total)	ug/g	30	30	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)

Table 6

Summary of Soil Analytical Results
Phase Two Environmental Site Assessment
2524 Cawthra Road, Mississauga, Ontario
The Corporation of the City of Mississauga

Sample Location:				**MW3-22**		**MW4-22**	
Sample Identification:				**S-12581540-220606-JB-MW3-22-2.3 TO 2.7**	**S-12581540-220606-JB-MW3-22-2.3 TO 2.7X**	**S-12581540-220610-JB-MW4-22-0.05-0.6**	**S-12581540-220610-JB-MW4-22-1.5-2.1**
Sample Date:				**06/06/2022**	**06/06/2022**	**06/10/2022**	**06/10/2022**
Sample Depth (mBGS):				**2.30-2.70**	**2.30-2.70**	**0.05-0.60**	**1.50-2.10**
Lab Certificate of Analysis:				**WT2205302**	**WT2205302**	**WT2205480**	**WT2205480**
Parameters	**Units**	**2011 MOE Standards**			***Field Duplicate***		
		Table 3 ICC[1]	**Table 7 ICC[2]**				
Semi-Volatile Organic Compounds							
1+2-Methylnaphthalene	ug/g	85	85	-	-	ND(0.05)	-
1-Methylnaphthalene	ug/g	85	85	-	-	ND(0.030)	-
2-Methylnaphthalene	ug/g	85	85	-	-	ND(0.030)	-
Acenaphthene	ug/g	96	96	-	-	ND(0.050)	-
Acenaphthylene	ug/g	0.17	0.17	-	-	ND(0.050)	-
Anthracene	ug/g	0.74	0.74	-	-	ND(0.050)	-
Benzo(a)anthracene	ug/g	0.96	0.96	-	-	ND(0.050)	-
Benzo(a)pyrene	ug/g	0.3	0.3	-	-	ND(0.050)	-
Benzo(b/j)fluoranthene	ug/g	0.96	0.96	-	-	ND(0.050)	-
Benzo(g,h,i)perylene	ug/g	9.6	9.6	-	-	ND(0.050)	-
Benzo(k)fluoranthene	ug/g	0.96	0.96	-	-	ND(0.050)	-
Chrysene	ug/g	9.6	9.6	-	-	ND(0.050)	-
Dibenz(a,h)anthracene	ug/g	0.1	0.1	-	-	ND(0.050)	-
Fluoranthene	ug/g	9.6	9.6	-	-	ND(0.050)	-
Fluorene	ug/g	69	69	-	-	ND(0.050)	-
Indeno(1,2,3-cd)pyrene	ug/g	0.95	0.95	-	-	ND(0.050)	-
Naphthalene	ug/g	28	28	-	-	ND(0.010)	-
Phenanthrene	ug/g	16	16	-	-	ND(0.050)	-
Pyrene	ug/g	96	96	-	-	ND(0.050)	-
Metals							
Antimony	ug/g	50	50	-	-	0.28	-
Arsenic	ug/g	18	18	-	-	7.95	-
Barium	ug/g	670	670	-	-	83.0	-
Beryllium	ug/g	10	10	-	-	0.32	-
Boron	ug/g	120	120	-	-	7.9	-
Boron (hot water soluble)	ug/g	2	2	-	-	0.18	-
Cadmium	ug/g	1.9	1.9	-	-	0.455	-
Calcium (soluble)	mg/L	NV	NV	-	-	19.3	-
Chromium	ug/g	160	160	-	-	14.4	-
Chromium VI (hexavalent)	ug/g	10	10	-	-	ND(0.66)	-
Cobalt	ug/g	100	100	-	-	6.10	-
Copper	ug/g	300	300	-	-	30.2	-
Lead	ug/g	120	120	-	-	21.9	-
Magnesium (soluble)	mg/L	NV	NV	-	-	2.05	-
Mercury	ug/g	20	20	-	-	0.0134	-
Molybdenum	ug/g	40	40	-	-	1.83	-
Nickel	ug/g	340	340	-	-	13.0	-
Selenium	ug/g	5.5	5.5	-	-	ND(0.20)	-
Silver	ug/g	50	50	-	-	ND(0.10)	-
Sodium (soluble)	mg/L	NV	NV	-	-	6.02	-
Thallium	ug/g	3.3	3.3	-	-	0.094	-
Uranium	ug/g	33	33	-	-	0.389	-
Vanadium	ug/g	86	86	-	-	19.2	-
Zinc	ug/g	340	340	-	-	162	-

Table 6

Summary of Soil Analytical Results
Phase Two Environmental Site Assessment
2524 Cawthra Road, Mississauga, Ontario
The Corporation of the City of Mississauga

			Sample Location:	**MW3-22**		**MW4-22**	
			Sample Identification:	**S-12581540-220606-JB-MW3-22-2.3 TO 2.7**	**S-12581540-220606-JB-MW3-22-2.3 TO 2.7X**	**S-12581540-220610-JB-MW4-22-0.05-0.6**	**S-12581540-220610-JB-MW4-22-1.5-2.1**
			Sample Date:	**06/06/2022**	**06/06/2022**	**06/10/2022**	**06/10/2022**
			Sample Depth (mBGS):	**2.30-2.70**	**2.30-2.70**	**0.05-0.60**	**1.50-2.10**
			Lab Certificate of Analysis:	**WT2205302**	**WT2205302**	**WT2205480**	**WT2205480**
Parameters	**Units**	**2011 MOE Standards**			***Field Duplicate***		
		Table 3 ICC[1]	**Table 7 ICC[2]**				
Polychlorinated Biphenyls (PCBs)							
Aroclor-1016 (PCB-1016)	ug/g	NV	NV	-	-	ND(0.010)	-
Aroclor-1221 (PCB-1221)	ug/g	NV	NV	-	-	ND(0.010)	-
Aroclor-1232 (PCB-1232)	ug/g	NV	NV	-	-	ND(0.010)	-
Aroclor-1242 (PCB-1242)	ug/g	NV	NV	-	-	ND(0.010)	-
Aroclor-1248 (PCB-1248)	ug/g	NV	NV	-	-	ND(0.010)	-
Aroclor-1254 (PCB-1254)	ug/g	NV	NV	-	-	ND(0.010)	-
Aroclor-1260 (PCB-1260)	ug/g	NV	NV	-	-	0.064	-
Aroclor-1262 (PCB-1262)	ug/g	NV	NV	-	-	ND(0.010)	-
Aroclor-1268 (PCB-1268)	ug/g	NV	NV	-	-	ND(0.010)	-
Total PCBs	ug/g	1.1	1.1	-	-	0.064	-
Petroleum Hydrocarbons (PHCs)							
PHCs F1 (C6-C10)	ug/g	65	65	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
PHCs F1 minus BTEX	ug/g	65	65	ND(5)	ND(5)	ND(5)	ND(5)
PHCs F2 (C10-C16)	ug/g	250	250	ND(10)	ND(10)	ND(10)	ND(10)
PHCs F2 minus Naphthalene	ug/g	250	250	-	-	ND(25)	-
PHCs F3 (C16-C34)	ug/g	2500	2500	ND(50)	ND(50)	ND(50)	ND(50)
PHCs F3 minus PAH	ug/g	2500	2500	-	-	ND(50)	-
PHCs F4 (C34-C50)	ug/g	6600	6600	ND(50)	ND(50)	ND(50)	ND(50)
PHCs F4 gravimetric - silica gel (GHH)	ug/g	6600	6600	-	-	-	-
Total PHCs (C6-C50)	ug/g	NV	NV	ND(80)	ND(80)	ND(80)	ND(80)
General Chemistry							
Conductivity	mS/cm	1.4	1.4	-	-	0.175	-
Cyanide, weak acid dissociable	ug/g	0.051	0.051	-	-	ND(0.050)	-
Moisture	%	NV	NV	17.3	19.8	4.99	9.35
pH, soluble (1:2)	s.u.	(5-11) 5-9	(5-11) 5-9	-	-	7.78	-
Sodium adsorption ratio (SAR)	none	12	12	-	-	0.35	-

Notes:

(1)	Ontario Ministry of Environment (MOE) Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition for Industrial/Commercial/Community Property Use with medium to fine textured soils, April 2011
(2)	MOE, Table 7: Generic Site Condition Standards for Shallow Soils in a Non-Potable Ground Water Condition for Industrial/Commercial/Community Property Use with medium to fine textured soils, April 2011
mBGS	metres Below Ground Surface
ug/g	micrograms per gram
mS/cm	milliSiemens per centimetre
%	percent
s.u.	standard units
NV	No value
ND(0.01)	Not detected at the associated reporting limit indicated in brackets
-	Not analyzed
RED	Concentration above MOE Table 3 Standards
	Concentration above MOE Table 7 Standards

Table 6

Summary of Soil Analytical Results
Phase Two Environmental Site Assessment
2524 Cawthra Road, Mississauga, Ontario
The Corporation of the City of Mississauga

Sample Location:				Trip Blank		
Sample Identification:				S-12581540-220606-JB-TRIP BLANK	S-12581540-220610-JB-TRIP BLANK	S-12581540-220614-JB-TRIP BLANK
Sample Date:				06/06/2022	06/10/2022	06/14/2022
Sample Depth (mBGS):				-	-	-
Lab Certificate of Analysis:				WT2205302	WT2205480	WT2205639
Parameters	**Units**	**2011 MOE Standards**		*Trip Blank*	*Trip Blank*	*Trip Blank*
		Table 3 ICC[1]	**Table 7 ICC[2]**			
Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane	ug/g	0.11	0.11	ND(0.050)	ND(0.050)	ND(0.050)
1,1,1-Trichloroethane	ug/g	12	12	ND(0.050)	ND(0.050)	ND(0.050)
1,1,2,2-Tetrachloroethane	ug/g	0.094	0.094	ND(0.050)	ND(0.050)	ND(0.050)
1,1,2-Trichloroethane	ug/g	0.11	0.11	ND(0.050)	ND(0.050)	ND(0.050)
1,1-Dichloroethane	ug/g	21	21	ND(0.050)	ND(0.050)	ND(0.050)
1,1-Dichloroethene	ug/g	0.48	0.48	ND(0.050)	ND(0.050)	ND(0.050)
Ethylene dibromide	ug/g	0.05	0.05	ND(0.050)	ND(0.050)	ND(0.050)
1,2-Dichlorobenzene	ug/g	8.5	8.5	ND(0.050)	ND(0.050)	ND(0.050)
1,2-Dichloroethane	ug/g	0.05	0.05	ND(0.050)	ND(0.050)	ND(0.050)
1,2-Dichloropropane	ug/g	0.68	0.68	ND(0.050)	ND(0.050)	ND(0.050)
1,3-Dichlorobenzene	ug/g	12	12	ND(0.050)	ND(0.050)	ND(0.050)
1,4-Dichlorobenzene	ug/g	0.84	0.84	ND(0.050)	ND(0.050)	ND(0.050)
Methyl ethyl ketone	ug/g	88	88	ND(0.50)	ND(0.50)	ND(0.50)
Methyl isobutyl ketone	ug/g	210	210	ND(0.50)	ND(0.50)	ND(0.50)
Acetone	ug/g	28	28	ND(0.50)	ND(0.50)	ND(0.50)
Benzene	ug/g	0.4	0.4	ND(0.0050)	ND(0.0050)	ND(0.0050)
Bromodichloromethane	ug/g	18	18	ND(0.050)	ND(0.050)	ND(0.050)
Bromoform	ug/g	1.7	1.7	ND(0.050)	ND(0.050)	ND(0.050)
Bromomethane (Methyl bromide)	ug/g	0.05	0.05	ND(0.050)	ND(0.050)	ND(0.050)
Carbon tetrachloride	ug/g	1.5	1.5	ND(0.050)	ND(0.050)	ND(0.050)
Chlorobenzene	ug/g	2.7	2.7	ND(0.050)	ND(0.050)	ND(0.050)
Chloroform (Trichloromethane)	ug/g	0.18	0.18	ND(0.050)	ND(0.050)	ND(0.050)
cis-1,2-Dichloroethene	ug/g	37	37	ND(0.050)	ND(0.050)	ND(0.050)
cis-1,3-Dichloropropene	ug/g	NV	NV	ND(0.030)	ND(0.030)	ND(0.030)
cis/trans-1,3-Dichloropropene	ug/g	0.21	0.21	ND(0.05)	ND(0.05)	ND(0.05)
Dibromochloromethane	ug/g	13	13	ND(0.050)	ND(0.050)	ND(0.050)
Dichlorodifluoromethane (CFC-12)	ug/g	25	25	ND(0.050)	ND(0.050)	ND(0.050)
Ethylbenzene	ug/g	19	19	ND(0.015)	ND(0.015)	ND(0.015)
Hexane	ug/g	88	88	ND(0.050)	ND(0.050)	ND(0.050)
m&p-Xylenes	ug/g	NV	NV	ND(0.030)	ND(0.030)	ND(0.030)
Methyl tert butyl ether (MTBE)	ug/g	3.2	3.2	ND(0.040)	ND(0.040)	ND(0.040)
Methylene chloride	ug/g	2	2	ND(0.045)	ND(0.045)	ND(0.045)
o-Xylene	ug/g	NV	NV	ND(0.030)	ND(0.030)	ND(0.030)
Styrene	ug/g	43	43	ND(0.050)	ND(0.050)	ND(0.050)
Tetrachloroethene	ug/g	21	21	ND(0.050)	ND(0.050)	ND(0.050)
Toluene	ug/g	78	78	ND(0.050)	ND(0.050)	ND(0.050)
Total BTEX	ug/g	NV	NV	ND(0.1)	ND(0.1)	ND(0.1)
trans-1,2-Dichloroethene	ug/g	9.3	9.3	ND(0.050)	ND(0.050)	ND(0.050)
trans-1,3-Dichloropropene	ug/g	NV	NV	ND(0.030)	ND(0.030)	ND(0.030)
Trichloroethene	ug/g	0.61	0.61	ND(0.010)	ND(0.010)	ND(0.010)
Trichlorofluoromethane (CFC-11)	ug/g	5.8	5.8	ND(0.050)	ND(0.050)	ND(0.050)
Vinyl chloride	ug/g	0.25	0.25	ND(0.020)	ND(0.020)	ND(0.020)
Xylenes (total)	ug/g	30	30	ND(0.05)	ND(0.05)	ND(0.05)

Table 6

Summary of Soil Analytical Results
Phase Two Environmental Site Assessment
2524 Cawthra Road, Mississauga, Ontario
The Corporation of the City of Mississauga

Sample Location:				Trip Blank		
Sample Identification:				S-12581540-220606-JB-TRIP BLANK	S-12581540-220610-JB-TRIP BLANK	S-12581540-220614-JB-TRIP BLANK
Sample Date:				06/06/2022	06/10/2022	06/14/2022
Sample Depth (mBGS):				-	-	-
Lab Certificate of Analysis:				WT2205302	WT2205480	WT2205639
Parameters	**Units**	**2011 MOE Standards**		*Trip Blank*	*Trip Blank*	*Trip Blank*
		Table 3 ICC[1]	**Table 7 ICC[2]**			
Semi-Volatile Organic Compounds						
1+2-Methylnaphthalene	ug/g	85	85	-	-	-
1-Methylnaphthalene	ug/g	85	85	-	-	-
2-Methylnaphthalene	ug/g	85	85	-	-	-
Acenaphthene	ug/g	96	96	-	-	-
Acenaphthylene	ug/g	0.17	0.17	-	-	-
Anthracene	ug/g	0.74	0.74	-	-	-
Benzo(a)anthracene	ug/g	0.96	0.96	-	-	-
Benzo(a)pyrene	ug/g	0.3	0.3	-	-	-
Benzo(b/j)fluoranthene	ug/g	0.96	0.96	-	-	-
Benzo(g,h,i)perylene	ug/g	9.6	9.6	-	-	-
Benzo(k)fluoranthene	ug/g	0.96	0.96	-	-	-
Chrysene	ug/g	9.6	9.6	-	-	-
Dibenz(a,h)anthracene	ug/g	0.1	0.1	-	-	-
Fluoranthene	ug/g	9.6	9.6	-	-	-
Fluorene	ug/g	69	69	-	-	-
Indeno(1,2,3-cd)pyrene	ug/g	0.95	0.95	-	-	-
Naphthalene	ug/g	28	28	-	-	-
Phenanthrene	ug/g	16	16	-	-	-
Pyrene	ug/g	96	96	-	-	-
Metals						
Antimony	ug/g	50	50	-	-	-
Arsenic	ug/g	18	18	-	-	-
Barium	ug/g	670	670	-	-	-
Beryllium	ug/g	10	10	-	-	-
Boron	ug/g	120	120	-	-	-
Boron (hot water soluble)	ug/g	2	2	-	-	-
Cadmium	ug/g	1.9	1.9	-	-	-
Calcium (soluble)	mg/L	NV	NV	-	-	-
Chromium	ug/g	160	160	-	-	-
Chromium VI (hexavalent)	ug/g	10	10	-	-	-
Cobalt	ug/g	100	100	-	-	-
Copper	ug/g	300	300	-	-	-
Lead	ug/g	120	120	-	-	-
Magnesium (soluble)	mg/L	NV	NV	-	-	-
Mercury	ug/g	20	20	-	-	-
Molybdenum	ug/g	40	40	-	-	-
Nickel	ug/g	340	340	-	-	-
Selenium	ug/g	5.5	5.5	-	-	-
Silver	ug/g	50	50	-	-	-
Sodium (soluble)	mg/L	NV	NV	-	-	-
Thallium	ug/g	3.3	3.3	-	-	-
Uranium	ug/g	33	33	-	-	-
Vanadium	ug/g	86	86	-	-	-
Zinc	ug/g	340	340	-	-	-

Table 6

Summary of Soil Analytical Results
Phase Two Environmental Site Assessment
2524 Cawthra Road, Mississauga, Ontario
The Corporation of the City of Mississauga

Sample Location:				Trip Blank		
Sample Identification:				S-12581540-220606-JB-TRIP BLANK	S-12581540-220610-JB-TRIP BLANK	S-12581540-220614-JB-TRIP BLANK
Sample Date:				06/06/2022	06/10/2022	06/14/2022
Sample Depth (mBGS):				-	-	-
Lab Certificate of Analysis:				WT2205302	WT2205480	WT2205639
Parameters	**Units**	**2011 MOE Standards**		*Trip Blank*	*Trip Blank*	*Trip Blank*
		Table 3 ICC[1]	**Table 7 ICC[2]**			
Polychlorinated Biphenyls (PCBs)						
Aroclor-1016 (PCB-1016)	ug/g	NV	NV	-	-	-
Aroclor-1221 (PCB-1221)	ug/g	NV	NV	-	-	-
Aroclor-1232 (PCB-1232)	ug/g	NV	NV	-	-	-
Aroclor-1242 (PCB-1242)	ug/g	NV	NV	-	-	-
Aroclor-1248 (PCB-1248)	ug/g	NV	NV	-	-	-
Aroclor-1254 (PCB-1254)	ug/g	NV	NV	-	-	-
Aroclor-1260 (PCB-1260)	ug/g	NV	NV	-	-	-
Aroclor-1262 (PCB-1262)	ug/g	NV	NV	-	-	-
Aroclor-1268 (PCB-1268)	ug/g	NV	NV	-	-	-
Total PCBs	ug/g	1.1	1.1	-	-	-
Petroleum Hydrocarbons (PHCs)						
PHCs F1 (C6-C10)	ug/g	65	65	ND(5.0)	ND(5.0)	ND(5.0)
PHCs F1 minus BTEX	ug/g	65	65	ND(5)	ND(5)	ND(5)
PHCs F2 (C10-C16)	ug/g	250	250	-	-	-
PHCs F2 minus Naphthalene	ug/g	250	250	-	-	-
PHCs F3 (C16-C34)	ug/g	2500	2500	-	-	-
PHCs F3 minus PAH	ug/g	2500	2500	-	-	-
PHCs F4 (C34-C50)	ug/g	6600	6600	-	-	-
PHCs F4 gravimetric - silica gel (GHH)	ug/g	6600	6600	-	-	-
Total PHCs (C6-C50)	ug/g	NV	NV	-	-	-
General Chemistry						
Conductivity	mS/cm	1.4	1.4	-	-	-
Cyanide, weak acid dissociable	ug/g	0.051	0.051	-	-	-
Moisture	%	NV	NV	ND(0.25)	ND(0.25)	ND(0.25)
pH, soluble (1:2)	s.u.	(5-11) 5-9	(5-11) 5-9	-	-	-
Sodium adsorption ratio (SAR)	none	12	12	-	-	-

Notes:

(1)	Ontario Ministry of Environment (MOE) Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition for Industrial/Commercial/Community Property Use with medium to fine textured soils, April 2011
(2)	MOE, Table 7: Generic Site Condition Standards for Shallow Soils in a Non-Potable Ground Water Condition for Industrial/Commercial/Community Property Use with medium to fine textured soils, April 2011
mBGS	metres Below Ground Surface
ug/g	micrograms per gram
mS/cm	milliSiemens per centimetre
%	percent
s.u.	standard units
NV	No value
ND(0.01)	Not detected at the associated reporting limit indicated in brackets
-	Not analyzed
RED	Concentration above MOE Table 3 Standards
	Concentration above MOE Table 7 Standards

Table 7

Summary of Groundwater Analytical Results
Phase Two Environmental Site Assessment
2524 Cawthra Road, Mississauga, Ontario
The Corporation of the City of Mississauga

			Sample Location:	**MW1-22**	**MW2-22**	**MW3-22**		**MW4-22**	**Trip Blank**
			Sample Identification:	**GW-12581540-220617-SB-MW1**	**GW-12581540-220617-SB-MW2**	**GW-12581540-220617-SB-MW3**	**GW-12581540-220617-SB-MW3-DUP**	**GW-12581540-220617-SB-MW4**	**TRIP BLANK**
			Sample Date:	**06/17/2022**	**06/17/2022**	**06/17/2022**	**06/17/2022**	**06/17/2022**	**06/17/2022**
			Laboratory Certificate of Analysis:	**WT2205959**	**WT2205959**	**WT2205959**	**WT2205959**	**WT2205959**	**WT2205959**
Parameters	**Units**	**2011 MOE Standards**					***Field Duplicate***		
		Table 3 ICC[1]	**Table 7 ICC[2]**						
Volatile Organic Compounds									
1,1,1,2-Tetrachloroethane	ug/L	28	1.1	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)
1,1,1-Trichloroethane	ug/L	6700	23	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)
1,1,2,2-Tetrachloroethane	ug/L	15	0.5	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)
1,1,2-Trichloroethane	ug/L	30	0.5	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)
1,1-Dichloroethane	ug/L	3100	11	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)
1,1-Dichloroethene	ug/L	17	0.5	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)
1,2-Dibromoethane (Ethylene dibromide)	ug/L	0.83	0.2	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)
1,2-Dichlorobenzene	ug/L	9600	150	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)
1,2-Dichloroethane	ug/L	12	0.5	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)
1,2-Dichloropropane	ug/L	140	0.58	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)
1,3-Dichlorobenzene	ug/L	9600	7600	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)
1,4-Dichlorobenzene	ug/L	67	0.5	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	1500000	21000	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)
4-Methyl-2-pentanone (Methyl isobutyl keton	ug/L	580000	5200	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)
Acetone	ug/L	130000	100000	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)
Benzene	ug/L	430	0.5	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)
Bromodichloromethane	ug/L	85000	67000	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)
Bromoform	ug/L	770	5	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)
Bromomethane (Methyl bromide)	ug/L	56	0.89	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)
Carbon tetrachloride	ug/L	8.4	0.2	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)
Chlorobenzene	ug/L	630	140	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)
Chloroform (Trichloromethane)	ug/L	22	2	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)
cis-1,2-Dichloroethene	ug/L	17	1.6	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)
cis-1,3-Dichloropropene	ug/L	NV	NV	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)
cis-1,3-Dichloropropene/trans-1,3-Dichloropr	ug/L	45	0.5	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
Dibromochloromethane	ug/L	82000	65000	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)
Dichlorodifluoromethane (CFC-12)	ug/L	4400	3500	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)
Ethylbenzene	ug/L	2300	54	ND(0.50)	ND(0.50)	0.69	0.79	ND(0.50)	ND(0.50)
Hexane	ug/L	520	5	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)
m&p-Xylenes	ug/L	NV	NV	ND(0.40)	ND(0.40)	ND(0.40)	ND(0.40)	ND(0.40)	ND(0.40)
Methyl tert butyl ether (MTBE)	ug/L	1400	15	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)
Methylene chloride	ug/L	5500	26	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
o-Xylene	ug/L	NV	NV	ND(0.30)	ND(0.30)	0.80	0.89	ND(0.30)	ND(0.30)
Styrene	ug/L	9100	43	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)
Tetrachloroethene	ug/L	17	0.5	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)
Toluene	ug/L	18000	320	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)
trans-1,2-Dichloroethene	ug/L	17	1.6	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)
trans-1,3-Dichloropropene	ug/L	NV	NV	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)
Trichloroethene	ug/L	17	0.5	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)
Trichlorofluoromethane (CFC-11)	ug/L	2500	2000	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)
Vinyl chloride	ug/L	1.7	0.5	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)
Xylenes (total)	ug/L	4200	72	ND(0.50)	ND(0.50)	0.80	0.89	ND(0.50)	ND(0.50)

Table 7

Summary of Groundwater Analytical Results
Phase Two Environmental Site Assessment
2524 Cawthra Road, Mississauga, Ontario
The Corporation of the City of Mississauga

			Sample Location:	**MW1-22**	**MW2-22**	**MW3-22**		**MW4-22**	**Trip Blank**
			Sample Identification:	**GW-12581540-220617-SB-MW1**	**GW-12581540-220617-SB-MW2**	**GW-12581540-220617-SB-MW3**	**GW-12581540-220617-SB-MW3-DUP**	**GW-12581540-220617-SB-MW4**	**TRIP BLANK**
			Sample Date:	**06/17/2022**	**06/17/2022**	**06/17/2022**	**06/17/2022**	**06/17/2022**	**06/17/2022**
			Laboratory Certificate of Analysis:	**WT2205959**	**WT2205959**	**WT2205959**	**WT2205959**	**WT2205959**	**WT2205959**
Parameters	**Units**	**2011 MOE Standards**					***Field Duplicate***		
		Table 3 ICC[1]	**Table 7 ICC[2]**						
Semi-Volatile Organic Compounds									
1-Methylnaphthalene	ug/L	1800	1500	0.020	ND(0.015)	1.02	1.05	ND(0.015)	-
2-Methylnaphthalene	ug/L	1800	1500	0.020	ND(0.010)	0.829	0.851	ND(0.010)	-
1/2-Methylnaphthalene	ug/L	1800	1500	ND(0.010)	ND(0.010)	0.191	0.200	ND(0.010)	-
Acenaphthene	ug/L	1700	17	ND(0.010)	ND(0.010)	0.129	0.132	ND(0.010)	-
Acenaphthylene	ug/L	1.8	1	ND(0.010)	ND(0.010)	ND(0.011)	ND(0.014)	ND(0.010)	-
Anthracene	ug/L	2.4	1	ND(0.010)	ND(0.010)	ND(0.019)	ND(0.010)	ND(0.010)	-
Benzo(a)anthracene	ug/L	4.7	1.8	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	-
Benzo(a)pyrene	ug/L	0.81	0.81	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	-
Benzo(b/j)fluoranthene	ug/L	0.75	0.75	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	-
Benzo(g,h,i)perylene	ug/L	0.2	0.2	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	-
Benzo(k)fluoranthene	ug/L	0.4	0.4	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	-
Chrysene	ug/L	1	0.7	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	-
Dibenz(a,h)anthracene	ug/L	0.52	0.4	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	-
Fluoranthene	ug/L	130	44	ND(0.010)	ND(0.010)	0.012	0.011	ND(0.010)	-
Fluorene	ug/L	400	290	ND(0.010)	ND(0.010)	0.058	0.060	ND(0.010)	-
Indeno(1,2,3-cd)pyrene	ug/L	0.2	0.2	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	-
Naphthalene	ug/L	6400	7	ND(0.050)	ND(0.050)	0.208	0.218	ND(0.050)	-
Phenanthrene	ug/L	580	380	ND(0.020)	ND(0.020)	ND(0.144)	ND(0.116)	ND(0.020)	-
Pyrene	ug/L	68	5.7	ND(0.010)	ND(0.010)	ND(0.019)	ND(0.015)	ND(0.010)	-
Metals									
Antimony (dissolved)	ug/L	20000	16000	1.92	ND(1.00)	1.14	1.3	1.31	-
Arsenic (dissolved)	ug/L	1900	1500	3.59	ND(1.00)	271	304	1.73	-
Barium (dissolved)	ug/L	29000	23000	132	43.8	29.3	35.1	171	-
Beryllium (dissolved)	ug/L	67	53	ND(0.020)	ND(0.200)	ND(0.200)	ND(0.200)	ND(0.020)	-
Boron (dissolved)	ug/L	45000	36000	187	126	330	373	181	-
Cadmium (dissolved)	ug/L	2.7	2.1	0.0124	ND(0.0500)	ND(0.0500)	ND(0.0500)	0.0170	-
Chromium (dissolved)	ug/L	810	640	ND(0.50)	ND(5.00)	ND(5.00)	ND(5.00)	ND(0.50)	-
Chromium VI (hexavalent) (dissolved)	ug/L	140	110	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	-
Cobalt (dissolved)	ug/L	66	52	0.78	ND(1.00)	ND(1.00)	ND(1.00)	0.46	-
Copper (dissolved)	ug/L	87	69	1.87	2.51	ND(2.00)	ND(2.00)	1.03	-
Lead (dissolved)	ug/L	25	20	0.056	ND(0.500)	ND(0.500)	ND(0.500)	ND(0.050)	-
Mercury (dissolved)	ug/L	2.8	0.1	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	-
Molybdenum (dissolved)	ug/L	9200	7300	9.18	ND(0.500)	48.1	53.2	3.08	-
Nickel (dissolved)	ug/L	490	390	4.03	ND(5.00)	7.91	8.73	1.26	-
Selenium (dissolved)	ug/L	63	50	0.388	ND(0.500)	0.522	0.548	0.473	-
Silver (dissolved)	ug/L	1.5	1.2	ND(0.010)	ND(0.100)	ND(0.100)	ND(0.100)	ND(0.010)	-
Sodium (dissolved)	ug/L	2300000	1800000	174000	399000	242000	273000	147000	-
Thallium (dissolved)	ug/L	510	400	0.034	ND(0.100)	ND(0.100)	ND(0.100)	0.010	-
Uranium (dissolved)	ug/L	420	330	5.84	0.199	1.48	1.71	2.95	-
Vanadium (dissolved)	ug/L	250	200	1.16	ND(5.00)	25.7	29.1	0.64	-
Zinc (dissolved)	ug/L	1100	890	4.9	ND(10.0)	ND(10.0)	ND(10.0)	1.3	-

Table 7

Summary of Groundwater Analytical Results
Phase Two Environmental Site Assessment
2524 Cawthra Road, Mississauga, Ontario
The Corporation of the City of Mississauga

			Sample Location:	**MW1-22**	**MW2-22**	**MW3-22**		**MW4-22**	**Trip Blank**
			Sample Identification:	**GW-12581540-220617-SB-MW1**	**GW-12581540-220617-SB-MW2**	**GW-12581540-220617-SB-MW3**	**GW-12581540-220617-SB-MW3-DUP**	**GW-12581540-220617-SB-MW4**	**TRIP BLANK**
			Sample Date:	**06/17/2022**	**06/17/2022**	**06/17/2022**	**06/17/2022**	**06/17/2022**	**06/17/2022**
			Laboratory Certificate of Analysis:	**WT2205959**	**WT2205959**	**WT2205959**	**WT2205959**	**WT2205959**	**WT2205959**
Parameters	**Units**	**2011 MOE Standards**					***Field Duplicate***		
		Table 3 ICC[1]	**Table 7 ICC[2]**						
Polychlorinated Biphenyls (PCBs)									
Aroclor-1016 (PCB-1016)	ug/L	NV	NV	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	-
Aroclor-1221 (PCB-1221)	ug/L	NV	NV	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	-
Aroclor-1232 (PCB-1232)	ug/L	NV	NV	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	-
Aroclor-1242 (PCB-1242)	ug/L	NV	NV	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	-
Aroclor-1248 (PCB-1248)	ug/L	NV	NV	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	-
Aroclor-1254 (PCB-1254)	ug/L	NV	NV	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	-
Aroclor-1260 (PCB-1260)	ug/L	NV	NV	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	-
Aroclor-1262 (PCB-1262)	ug/L	NV	NV	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	-
Aroclor-1268 (PCB-1268)	ug/L	NV	NV	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	-
Total PCBs	ug/L	15	0.2	ND(0.060)	ND(0.060)	ND(0.060)	ND(0.060)	ND(0.060)	-
Petroleum Hydrocarbons (PHCs)									
PHCs F1 (C6-C10)	ug/L	750	420	ND(25)	ND(25)	ND(25)	ND(25)	ND(25)	ND(25)
PHCs F1 minus BTEX	ug/L	750	420	ND(25)	ND(25)	ND(25)	ND(25)	ND(25)	ND(25)
PHCs F2 (C10-C16)	ug/L	150	150	ND(100)	ND(100)	ND(100)	ND(100)	ND(100)	-
PHCs F2 minus Naphthalene	ug/L	150	150	ND(100)	ND(100)	ND(100)	ND(100)	ND(100)	-
PHCs F3 (C16-C34)	ug/L	500	500	ND(250)	ND(250)	ND(250)	ND(250)	ND(250)	-
PHCs F3 minus PAH	ug/L	500	500	ND(250)	ND(250)	ND(250)	ND(250)	ND(250)	-
PHCs F4 (C34-C50)	ug/L	500	500	ND(250)	ND(250)	ND(250)	ND(250)	ND(250)	-
Total PHCs (C6-C50)	ug/L	NV	NV	ND(370)	ND(370)	ND(370)	ND(370)	ND(370)	-
General Chemistry									
Chloride (dissolved)	mg/L	2300	1800	339	784	252	231	112	-
Conductivity	mS/cm	NV	NV	2.06	3.60	1.43	1.43	1.17	-
Cyanide, weak acid dissociable	ug/L	66	52	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	-
pH, lab	s.u.	NV	NV	7.64	7.20	8.60	8.59	7.68	-

Notes:

(1)	Ontario Ministry of Environment (MOE), Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition for Industrial/Commercial/Community Property Use with medium to fine textured soils, April 2011
(2)	Ontario MOE, Table 7: Generic Site Condition Standards for Shallow Soils in a Non-Potable Ground Water Condition for Industrial/Commercial/Community Property Use with medium to fine textured soils, April 2011
ug/L	micrograms per litre
mg/L	milligrams per litre
mS/cm	milliSiemens per centimetre
s.u.	standard units
NV	No value
ND(0.50)	Not detected at the associated reporting limit indicated in brackets
-	Not analyzed

Table 2

Summary of Soil Analytical Results
2524 Cawthra Road, Mississauga, Ontario
Corporation of the City of Mississauga

			Sample Location:	North Wall (02)	East Wall (03)	South Wall (06)	West Wall (07)	West Wall (07)	Floor (09)	Floor (10)
			Sample Identification:	S-12581540-072423-BLW-02	S-12581540-072423-BLW-03	S-12581540-072423-BLW-06	S-12581540-072423-BLW-07	S-12581540-072423-BLW-DUP	S-12581540-072423-BLW-09	S-12581540-072423-BLW-02
			Sample Date:	07/24/2023	07/24/2023	07/24/2023	07/24/2023	07/24/2023	07/24/2023	07/24/2023
			Sample Depth:	0.8-1.5	0.0-0.8	0.8-1.5	0.0-0.8	0.0-0.8	1.2	1.5
			Lab COA:	C3M0681	C3M0681	C3M0681	C3M0681	C3M0681 Duplicate	C3M0681	C3M0681
Parameters		**Units**	**Table 3[(1)]**							
Petroleum Hydrocarbons										
Petroleum hydrocarbons F2 (C10-C16)		ug/g	250	31	47	34	**2000**	**1300**	**360**	**640**
Petroleum hydrocarbons F3 (C16-C34)		ug/g	2500	1300	1400	1400	2100	1600	680	1600
Petroleum hydrocarbons F4 (C34-C50)		ug/g	6600	2500	2400	2600	550	620	310	1900
Gravimetric heavy hydrocarbons (F4G)		ug/g	6600	**10000**	**6700**	**7000**	1200	1900	740	4900
General Chemistry										
Moisture		%	-	8.6	10	9.1	6.5	6.9	12	7.2

Notes:

(1)	Ontario Ministry of the Environment (MOE), Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, April 15, 2011. Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition for Industrial/Commercial/Community Property Use and Medium to Fine Grained Soils
ND(0.050)	Not detected above laboratory detection limited indicated in brackets
%	Percentage
-	Not analyzed/No Standard
ug/g	microgram per gram
0.61	Concentration above the 2011 MOE Tables 3 Standards

Table 2

Summary of Soil Analytical Results
Supplementary Environmental Investigation
2524 Cawthra Road, Mississauga, Ontario
The Corporation of the City of Mississauga

			Sample Location:	**BH104-23**	**BH106-23**	**BH111-23**	**BH112-23**	**BH112**
			Sample Identification:	**S-12581540-092023-CC-BH104-2-4**	**S-12581540-092023-CC-BH106-2-4**	**S-12581540-092023-CC-BH111-6-7**	**S-12581540-092023-CC-BH112-2-4**	**S-12581540-092023-CC-BH112-6-7'6"**
			Sample Date:	**09/20/2023**	**09/20/2023**	**09/20/2023**	**09/20/2023**	**09/20/2023**
			Sample Depth (mBGS):	**0.61-1.22**	**0.61-1.22**	**1.83-2.13**	**0.61-1.22**	**1.83-2.04**
			Lab Certificate of Analysis:	**C3T2887**	**C3T2887**	**C3T2887**	**C3T2887**	**C3T2887**
Parameters	**Units**	**2011 MOE Standards**						
		Table 3 ICC[1]	**Table 7 ICC[2]**					
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	ug/g	0.11	0.11	-	-	ND(0.040)	ND(0.040)	-
1,1,1-Trichloroethane	ug/g	12	12	-	-	ND(0.040)	ND(0.040)	-
1,1,2,2-Tetrachloroethane	ug/g	0.094	0.094	-	-	ND(0.040)	ND(0.040)	-
1,1,2-Trichloroethane	ug/g	0.11	0.11	-	-	ND(0.040)	ND(0.040)	-
1,1-Dichloroethane	ug/g	21	21	-	-	ND(0.040)	ND(0.040)	-
1,1-Dichloroethene	ug/g	0.48	0.48	-	-	ND(0.040)	ND(0.040)	-
1,2-Dibromoethane (Ethylene dibromide)	ug/g	0.05	0.05	-	-	ND(0.040)	ND(0.040)	-
1,2-Dichlorobenzene	ug/g	8.5	8.5	-	-	ND(0.040)	ND(0.040)	-
1,2-Dichloroethane	ug/g	0.05	0.05	-	-	ND(0.049)	ND(0.049)	-
1,2-Dichloropropane	ug/g	0.68	0.68	-	-	ND(0.040)	ND(0.040)	-
1,3-Dichlorobenzene	ug/g	12	12	-	-	ND(0.040)	ND(0.040)	-
1,4-Dichlorobenzene	ug/g	0.84	0.84	-	-	ND(0.040)	ND(0.040)	-
2-Butanone (Methyl ethyl ketone) (MEK)	ug/g	88	88	-	-	ND(0.40)	ND(0.40)	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/g	210	210	-	-	ND(0.40)	ND(0.40)	-
Acetone	ug/g	28	28	-	-	ND(0.49)	ND(0.49)	-
Benzene	ug/g	0.4	0.4	ND(0.020)	ND(0.020)	0.013	0.030	ND(0.020)
Bromodichloromethane	ug/g	18	18	-	-	ND(0.040)	ND(0.040)	-
Bromoform	ug/g	1.7	1.7	-	-	ND(0.040)	ND(0.040)	-
Bromomethane (Methyl bromide)	ug/g	0.05	0.05	-	-	ND(0.040)	ND(0.040)	-
Carbon tetrachloride	ug/g	1.5	1.5	-	-	ND(0.040)	ND(0.040)	-
Chlorobenzene	ug/g	2.7	2.7	-	-	ND(0.040)	ND(0.040)	-
Chloroform (Trichloromethane)	ug/g	0.18	0.18	-	-	ND(0.040)	ND(0.040)	-
cis-1,2-Dichloroethene	ug/g	37	37	-	-	ND(0.040)	ND(0.040)	-
cis-1,3-Dichloropropene	ug/g	NV	NV	-	-	ND(0.030)	ND(0.030)	-
cis-1,3-Dichloropropene/trans-1,3-Dichloropropene total	ug/g	0.21	0.21	-	-	ND(0.050)	ND(0.050)	-
Dibromochloromethane	ug/g	13	13	-	-	ND(0.040)	ND(0.040)	-
Dichlorodifluoromethane (CFC-12)	ug/g	25	25	-	-	ND(0.040)	ND(0.040)	-
Ethylbenzene	ug/g	19	19	ND(0.020)	ND(0.020)	0.16	0.026	ND(0.020)
Hexane	ug/g	88	88	-	-	1.1	ND(0.040)	-
m&p-Xylenes	ug/g	NV	NV	ND(0.040)	ND(0.040)	0.17	0.10	ND(0.040)
Methyl tert butyl ether (MTBE)	ug/g	3.2	3.2	-	-	ND(0.040)	ND(0.040)	-
Methylene chloride	ug/g	2	2	-	-	ND(0.049)	ND(0.049)	-
o-Xylene	ug/g	NV	NV	ND(0.020)	ND(0.020)	0.043	0.054	ND(0.020)
Styrene	ug/g	43	43	-	-	ND(0.040)	ND(0.040)	-
Tetrachloroethene	ug/g	21	21	-	-	ND(0.040)	ND(0.040)	-
Toluene	ug/g	78	78	ND(0.020)	ND(0.020)	0.031	0.088	ND(0.020)
trans-1,2-Dichloroethene	ug/g	9.3	9.3	-	-	ND(0.040)	ND(0.040)	-
trans-1,3-Dichloropropene	ug/g	NV	NV	-	-	ND(0.040)	ND(0.040)	-
Trichloroethene	ug/g	0.61	0.61	-	-	ND(0.010)	ND(0.010)	-
Trichlorofluoromethane (CFC-11)	ug/g	5.8	5.8	-	-	ND(0.040)	ND(0.040)	-
Vinyl chloride	ug/g	0.25	0.25	-	-	ND(0.019)	ND(0.019)	-
Xylenes (total)	ug/g	30	30	ND(0.040)	ND(0.040)	0.21	0.15	ND(0.040)

Table 2

Summary of Soil Analytical Results
Supplementary Environmental Investigation
2524 Cawthra Road, Mississauga, Ontario
The Corporation of the City of Mississauga

			Sample Location:	**BH104-23**	**BH106-23**	**BH111-23**	**BH112-23**	**BH112**
			Sample Identification:	**S-12581540-092023-CC-BH104-2-4**	**S-12581540-092023-CC-BH106-2-4**	**S-12581540-092023-CC-BH111-6-7**	**S-12581540-092023-CC-BH112-2-4**	**S-12581540-092023-CC-BH112-6-7'6"**
			Sample Date:	**09/20/2023**	**09/20/2023**	**09/20/2023**	**09/20/2023**	**09/20/2023**
			Sample Depth (mBGS):	**0.61-1.22**	**0.61-1.22**	**1.83-2.13**	**0.61-1.22**	**1.83-2.04**
			Lab Certificate of Analysis:	**C3T2887**	**C3T2887**	**C3T2887**	**C3T2887**	**C3T2887**
Parameters	**Units**	**2011 MOE Standards**						
		Table 3 ICC[1]	**Table 7 ICC[2]**					
Petroleum Hydrocarbons (PHCs)								
Petroleum hydrocarbons F1 (C6-C10)	ug/g	65	65	ND(10)	ND(10)	**150**	ND(10)	ND(10)
Petroleum hydrocarbons F1 (C6-C10) - less BTEX	ug/g	65	65	ND(10)	ND(10)	**150**	ND(10)	ND(10)
Petroleum hydrocarbons F2 (C10-C16)	ug/g	250	250	32	34	**410**	80	ND(10)
Petroleum hydrocarbons F3 (C16-C34)	ug/g	2500	2500	1100	1100	1900	1900	ND(50)
Petroleum hydrocarbons F4 (C34-C50)	ug/g	6600	6600	2200	1800	660	990	ND(50)
Gravimetric heavy hydrocarbons (F4G)	ug/g	6600	6600	**7300**	5400	2200	3400	-
General Chemistry								
Moisture	%	NV	NV	8.6	14	20	14	16

Notes:

(1) Ontario Ministry of Environment (MOE) Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition for Industrial/Commercial/ Community Property Use with medium to fine textured soils, April 2011

(2) MOE, Table 7: Generic Site Condition Standards for Shallow Soils in a Non-Potable Ground Water Condition for Industrial/Commercial/ Community Property Use with medium to fine textured soils, April 2011

mBGS metres Below Ground Surface
ug/g micrograms per gram
% percent
NV No value
ND(0.01) Not detected at the associated reporting limit indicated in brackets
- Not analyzed
RED Concentration above MOE Table 3 Standards
Concentration above MOE Table 7 Standards

Table 2

Summary of Soil Analytical Results
Supplementary Environmental Investigation
2524 Cawthra Road, Mississauga, Ontario
The Corporation of the City of Mississauga

				Sample Location:	**BH113**	**BH113**	**BH113**	**BH115**	**BH117**
				Sample Identification:	**S-12581540-092023-CC-BH113-2-4**	**S-12581540-092023-CC-DUP1**	**S-12581540-092023-CC-BH113-6-8**	**S-12581540-092023-CC-BH115-2-4**	**S-12581540-092023-CC-BH117-2-4**
				Sample Date:	**09/20/2023**	**09/20/2023**	**09/20/2023**	**09/20/2023**	**09/20/2023**
				Sample Depth (mBGS):	**0.61-1.22**	**0.61-1.22**	**1.83-2.44**	**0.61-1.22**	**0.61-1.22**
				Lab Certificate of Analysis:	**C3T2887**	**C3T2887**	**C3T2887**	**C3T2887**	**C3T2887**
Parameters	**Units**	**2011 MOE Standards**				***Field Duplicate***			
		Table 3 ICC[1]	**Table 7 ICC[2]**						
Volatile Organic Compounds									
1,1,1,2-Tetrachloroethane	ug/g	0.11	0.11		ND(0.040)	ND(0.040)	-	-	-
1,1,1-Trichloroethane	ug/g	12	12		ND(0.040)	ND(0.040)	-	-	-
1,1,2,2-Tetrachloroethane	ug/g	0.094	0.094		ND(0.040)	ND(0.040)	-	-	-
1,1,2-Trichloroethane	ug/g	0.11	0.11		ND(0.040)	ND(0.040)	-	-	-
1,1-Dichloroethane	ug/g	21	21		ND(0.040)	ND(0.040)	-	-	-
1,1-Dichloroethene	ug/g	0.48	0.48		ND(0.040)	ND(0.040)	-	-	-
1,2-Dibromoethane (Ethylene dibromide)	ug/g	0.05	0.05		ND(0.040)	ND(0.040)	-	-	-
1,2-Dichlorobenzene	ug/g	8.5	8.5		ND(0.040)	ND(0.040)	-	-	-
1,2-Dichloroethane	ug/g	0.05	0.05		ND(0.049)	ND(0.049)	-	-	-
1,2-Dichloropropane	ug/g	0.68	0.68		ND(0.040)	ND(0.040)	-	-	-
1,3-Dichlorobenzene	ug/g	12	12		ND(0.040)	ND(0.040)	-	-	-
1,4-Dichlorobenzene	ug/g	0.84	0.84		ND(0.040)	ND(0.040)	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	ug/g	88	88		ND(0.40)	ND(0.40)	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/g	210	210		ND(0.40)	ND(0.40)	-	-	-
Acetone	ug/g	28	28		ND(0.49)	ND(0.49)	-	-	-
Benzene	ug/g	0.4	0.4		0.012	0.024	ND(0.020)	ND(0.020)	ND(0.020)
Bromodichloromethane	ug/g	18	18		ND(0.040)	ND(0.040)	-	-	-
Bromoform	ug/g	1.7	1.7		ND(0.040)	ND(0.040)	-	-	-
Bromomethane (Methyl bromide)	ug/g	0.05	0.05		ND(0.040)	ND(0.040)	-	-	-
Carbon tetrachloride	ug/g	1.5	1.5		ND(0.040)	ND(0.040)	-	-	-
Chlorobenzene	ug/g	2.7	2.7		ND(0.040)	ND(0.040)	-	-	-
Chloroform (Trichloromethane)	ug/g	0.18	0.18		ND(0.040)	ND(0.040)	-	-	-
cis-1,2-Dichloroethene	ug/g	37	37		ND(0.040)	ND(0.040)	-	-	-
cis-1,3-Dichloropropene	ug/g	NV	NV		ND(0.030)	ND(0.030)	-	-	-
cis-1,3-Dichloropropene/trans-1,3-Dichloropropene total	ug/g	0.21	0.21		ND(0.050)	ND(0.050)	-	-	-
Dibromochloromethane	ug/g	13	13		ND(0.040)	ND(0.040)	-	-	-
Dichlorodifluoromethane (CFC-12)	ug/g	25	25		ND(0.040)	ND(0.040)	-	-	-
Ethylbenzene	ug/g	19	19		0.070	0.14	ND(0.020)	ND(0.020)	ND(0.020)
Hexane	ug/g	88	88		0.70	1.1	-	-	-
m&p-Xylenes	ug/g	NV	NV		0.28	0.58	ND(0.040)	ND(0.040)	ND(0.040)
Methyl tert butyl ether (MTBE)	ug/g	3.2	3.2		ND(0.040)	ND(0.040)	-	-	-
Methylene chloride	ug/g	2	2		ND(0.049)	ND(0.049)	-	-	-
o-Xylene	ug/g	NV	NV		0.14	0.27	ND(0.020)	ND(0.020)	ND(0.020)
Styrene	ug/g	43	43		ND(0.040)	ND(0.040)	-	-	-
Tetrachloroethene	ug/g	21	21		ND(0.040)	ND(0.040)	-	-	-
Toluene	ug/g	78	78		0.049	0.089	ND(0.020)	ND(0.020)	ND(0.020)
trans-1,2-Dichloroethene	ug/g	9.3	9.3		ND(0.040)	ND(0.040)	-	-	-
trans-1,3-Dichloropropene	ug/g	NV	NV		ND(0.040)	ND(0.040)	-	-	-
Trichloroethene	ug/g	0.61	0.61		ND(0.010)	ND(0.010)	-	-	-
Trichlorofluoromethane (CFC-11)	ug/g	5.8	5.8		ND(0.040)	ND(0.040)	-	-	-
Vinyl chloride	ug/g	0.25	0.25		ND(0.019)	ND(0.019)	-	-	-
Xylenes (total)	ug/g	30	30		0.42	0.85	ND(0.040)	ND(0.040)	ND(0.040)

Table 2

Summary of Soil Analytical Results
Supplementary Environmental Investigation
2524 Cawthra Road, Mississauga, Ontario
The Corporation of the City of Mississauga

				Sample Location:	**BH113**	**BH113**	**BH113**	**BH115**	**BH117**
				Sample Identification:	**S-12581540-092023-CC-BH113-2-4**	**S-12581540-092023-CC-DUP1**	**S-12581540-092023-CC-BH113-6-8**	**S-12581540-092023-CC-BH115-2-4**	**S-12581540-092023-CC-BH117-2-4**
				Sample Date:	**09/20/2023**	**09/20/2023**	**09/20/2023**	**09/20/2023**	**09/20/2023**
				Sample Depth (mBGS):	**0.61-1.22**	**0.61-1.22**	**1.83-2.44**	**0.61-1.22**	**0.61-1.22**
				Lab Certificate of Analysis:	**C3T2887**	**C3T2887**	**C3T2887**	**C3T2887**	**C3T2887**
Parameters	**Units**	**2011 MOE Standards**				***Field Duplicate***			
		Table 3 ICC[1]	**Table 7 ICC[2]**						
Petroleum Hydrocarbons (PHCs)									
Petroleum hydrocarbons F1 (C6-C10)	ug/g	65	65		ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
Petroleum hydrocarbons F1 (C6-C10) - less BTEX	ug/g	65	65		ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
Petroleum hydrocarbons F2 (C10-C16)	ug/g	250	250		59	54	ND(10)	ND(10)	16
Petroleum hydrocarbons F3 (C16-C34)	ug/g	2500	2500		2300	2400	ND(50)	ND(50)	560
Petroleum hydrocarbons F4 (C34-C50)	ug/g	6600	6600		1300	1300	ND(50)	ND(50)	1000
Gravimetric heavy hydrocarbons (F4G)	ug/g	6600	6600		4100	4900	-	-	3800
General Chemistry									
Moisture	%	NV	NV		20	23	13	19	6.9

Notes:

(1) Ontario Ministry of Environment (MOE) Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition for Industrial/Commercial/ Community Property Use with medium to fine textured soils, April 2011

(2) MOE, Table 7: Generic Site Condition Standards for Shallow Soils in a Non-Potable Ground Water Condition for Industrial/Commercial/ Community Property Use with medium to fine textured soils, April 2011

mBGS metres Below Ground Surface
ug/g micrograms per gram
% percent
NV No value
ND(0.01) Not detected at the associated reporting limit indicated in brackets
- Not analyzed
RED Concentration above MOE Table 3 Standards
Concentration above MOE Table 7 Standards

Table 2

Summary of Soil Analytical Results
Supplementary Environmental Investigation
2524 Cawthra Road, Mississauga, Ontario
The Corporation of the City of Mississauga

			Sample Location:	**BH118**	**BH119**	**BH119**	**BH120**	**Trip Blank**
			Sample Identification:	**S-12581540-092023-CC-BH118-2-4**	**S-12581540-092023-CC-BH119-2-4**	**S-12581540-092023-CC-DUP2**	**S-12581540-092023-CC-BH120-2-4**	**TRIP BLANK**
			Sample Date:	**09/20/2023**	**09/20/2023**	**09/20/2023**	**09/20/2023**	**09/20/2023**
			Sample Depth (mBGS):	**0.61-1.22**	**0.61-1.22**	**0.61-1.22**	**0.61-1.22**	**-**
			Lab Certificate of Analysis:	**C3T2887**	**C3T2887**	**C3T2887**	**C3T2887**	**C3T2887**
Parameters	**Units**	**2011 MOE Standards**				***Field Duplicate***		
		Table 3 ICC[1]	**Table 7 ICC[2]**					
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	ug/g	0.11	0.11	-	-	-	-	ND(0.040)
1,1,1-Trichloroethane	ug/g	12	12	-	-	-	-	ND(0.040)
1,1,2,2-Tetrachloroethane	ug/g	0.094	0.094	-	-	-	-	ND(0.040)
1,1,2-Trichloroethane	ug/g	0.11	0.11	-	-	-	-	ND(0.040)
1,1-Dichloroethane	ug/g	21	21	-	-	-	-	ND(0.040)
1,1-Dichloroethene	ug/g	0.48	0.48	-	-	-	-	ND(0.040)
1,2-Dibromoethane (Ethylene dibromide)	ug/g	0.05	0.05	-	-	-	-	ND(0.040)
1,2-Dichlorobenzene	ug/g	8.5	8.5	-	-	-	-	ND(0.040)
1,2-Dichloroethane	ug/g	0.05	0.05	-	-	-	-	ND(0.049)
1,2-Dichloropropane	ug/g	0.68	0.68	-	-	-	-	ND(0.040)
1,3-Dichlorobenzene	ug/g	12	12	-	-	-	-	ND(0.040)
1,4-Dichlorobenzene	ug/g	0.84	0.84	-	-	-	-	ND(0.040)
2-Butanone (Methyl ethyl ketone) (MEK)	ug/g	88	88	-	-	-	-	ND(0.40)
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/g	210	210	-	-	-	-	ND(0.40)
Acetone	ug/g	28	28	-	-	-	-	ND(0.49)
Benzene	ug/g	0.4	0.4	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.0060)
Bromodichloromethane	ug/g	18	18	-	-	-	-	ND(0.040)
Bromoform	ug/g	1.7	1.7	-	-	-	-	ND(0.040)
Bromomethane (Methyl bromide)	ug/g	0.05	0.05	-	-	-	-	ND(0.040)
Carbon tetrachloride	ug/g	1.5	1.5	-	-	-	-	ND(0.040)
Chlorobenzene	ug/g	2.7	2.7	-	-	-	-	ND(0.040)
Chloroform (Trichloromethane)	ug/g	0.18	0.18	-	-	-	-	ND(0.040)
cis-1,2-Dichloroethene	ug/g	37	37	-	-	-	-	ND(0.040)
cis-1,3-Dichloropropene	ug/g	NV	NV	-	-	-	-	ND(0.030)
cis-1,3-Dichloropropene/trans-1,3-Dichloropropene total	ug/g	0.21	0.21	-	-	-	-	ND(0.050)
Dibromochloromethane	ug/g	13	13	-	-	-	-	ND(0.040)
Dichlorodifluoromethane (CFC-12)	ug/g	25	25	-	-	-	-	ND(0.040)
Ethylbenzene	ug/g	19	19	ND(0.020)	ND(0.020)	ND(0.020)	0.022	ND(0.010)
Hexane	ug/g	88	88	-	-	-	-	ND(0.040)
m&p-Xylenes	ug/g	NV	NV	ND(0.040)	ND(0.040)	ND(0.040)	0.35	ND(0.020)
Methyl tert butyl ether (MTBE)	ug/g	3.2	3.2	-	-	-	-	ND(0.040)
Methylene chloride	ug/g	2	2	-	-	-	-	ND(0.049)
o-Xylene	ug/g	NV	NV	ND(0.020)	ND(0.020)	ND(0.020)	0.056	ND(0.020)
Styrene	ug/g	43	43	-	-	-	-	ND(0.040)
Tetrachloroethene	ug/g	21	21	-	-	-	-	ND(0.040)
Toluene	ug/g	78	78	0.023	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
trans-1,2-Dichloroethene	ug/g	9.3	9.3	-	-	-	-	ND(0.040)
trans-1,3-Dichloropropene	ug/g	NV	NV	-	-	-	-	ND(0.040)
Trichloroethene	ug/g	0.61	0.61	-	-	-	-	ND(0.010)
Trichlorofluoromethane (CFC-11)	ug/g	5.8	5.8	-	-	-	-	ND(0.040)
Vinyl chloride	ug/g	0.25	0.25	-	-	-	-	ND(0.019)
Xylenes (total)	ug/g	30	30	ND(0.040)	ND(0.040)	ND(0.040)	0.40	ND(0.020)

Table 2

Summary of Soil Analytical Results
Supplementary Environmental Investigation
2524 Cawthra Road, Mississauga, Ontario
The Corporation of the City of Mississauga

			Sample Location:	**BH118**	**BH119**	**BH119**	**BH120**	**Trip Blank**
			Sample Identification:	**S-12581540-092023-CC-BH118-2-4**	**S-12581540-092023-CC-BH119-2-4**	**S-12581540-092023-CC-DUP2**	**S-12581540-092023-CC-BH120-2-4**	**TRIP BLANK**
			Sample Date:	**09/20/2023**	**09/20/2023**	**09/20/2023**	**09/20/2023**	**09/20/2023**
			Sample Depth (mBGS):	**0.61-1.22**	**0.61-1.22**	**0.61-1.22**	**0.61-1.22**	**-**
			Lab Certificate of Analysis:	**C3T2887**	**C3T2887**	**C3T2887**	**C3T2887**	**C3T2887**
Parameters	**Units**	**2011 MOE Standards**				***Field Duplicate***		
		Table 3 ICC[1]	**Table 7 ICC[2]**					
Petroleum Hydrocarbons (PHCs)								
Petroleum hydrocarbons F1 (C6-C10)	ug/g	65	65	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
Petroleum hydrocarbons F1 (C6-C10) - less BTEX	ug/g	65	65	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
Petroleum hydrocarbons F2 (C10-C16)	ug/g	250	250	ND(10)	ND(10)	ND(10)	99	-
Petroleum hydrocarbons F3 (C16-C34)	ug/g	2500	2500	ND(50)	ND(50)	ND(50)	830	-
Petroleum hydrocarbons F4 (C34-C50)	ug/g	6600	6600	ND(50)	ND(50)	ND(50)	470	-
Gravimetric heavy hydrocarbons (F4G)	ug/g	6600	6600	-	-	-	1200	-
General Chemistry								
Moisture	%	NV	NV	16	15	14	18	-

Notes:

(1) Ontario Ministry of Environment (MOE) Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition for Industrial/Commercial/ Community Property Use with medium to fine textured soils, April 2011

(2) MOE, Table 7: Generic Site Condition Standards for Shallow Soils in a Non-Potable Ground Water Condition for Industrial/Commercial/ Community Property Use with medium to fine textured soils, April 2011

mBGS metres Below Ground Surface
ug/g micrograms per gram
% percent
NV No value
ND(0.01) Not detected at the associated reporting limit indicated in brackets
- Not analyzed
RED Concentration above MOE Table 3 Standards
Concentration above MOE Table 7 Standards

100 Milverton Drive, Suite 404
Mississauga, Ontario L5R 4H1
Canada
www.ghd.com

GHD Reference No: 12581540-LTR-5

05 December 2023

Katrina MacDonald
The Corporation of the City of Mississauga
201 City Centre Drive, 8F
Mississauga, Ontario
L5B 3A3

Supplementary Environmental Investigation
2524 Cawthra Road, Mississauga, Ontario

Dear Katrina,

1. Introduction

GHD Limited (GHD) was retained by the City of Mississauga (the City) to complete a supplementary environmental investigation at 2524 Cawthra Road in Mississauga, Ontario (Site). A Site location map is presented on **Figure 1**.

A Phase One Environmental Site Assessment (ESA)[1], Phase Two ESA[2], and a Geotechnical Investigation[3] were previously completed by GHD in 2022. The works were undertaken in support of the acquisition of the Site. The Property is currently owned by the City and the City plans to redevelop the Site as a Fire Station. A small garage (used for automotive repairs) was located in the rear portion of the Property. It is GHD's understanding that during garage demolition activities in July 2023, visual evidence of impact (i.e., black staining and oily sheen) was identified by the demolition contractor (Salandria Ltd.) in the vicinity of an oil/water separator/tank that was located beneath the floor of the former garage. The separator/tank was removed under the oversight of the contractor's Qualified Person (QP) (Bruce A. Brown Associates Limited). Impacted soils were identified in the vicinity of the separator by the contractor's QP and soils were excavated and transported off Site for disposal by the Contractor. A total of 403.32 tonnes of soil was reportedly removed between July 18 and 19, 2023 to a GFL facility located at 85 Vickers Road in Toronto, Ontario. Residual impacts remain on Site. A Site location map and Site plan are presented in **Figure 1** and **Figure 2A**, respectively. A detailed plan of the oil/water separator/tank area is presented on **Figure 2B**.

[1] Phase One Environmental Site Assessment, 2524 Cawthra Road, Mississauga, Ontario. Prepared by GHD Limited, for The Corporation of the City of Mississauga, dated November 15, 2022.

[2] Phase Two Environmental Site Assessment, 2524 Cawthra Road, Mississauga, Ontario. Prepared by GHD Limited, for The Corporation of the City of Mississauga, dated November 15, 2022.

[3] Geotechnical Investigation and Design Report, 2524 Cawthra Road, Mississauga, Ontario. Prepared by GHD Limited, for The Corporation of the City of Mississauga, dated October 28, 2022.

The supplementary investigation presented herein was undertaken to further investigate/define the extent of the residual contamination present in the vicinity of the oil/water separator/tank.

2. Previous Investigations

As previously mentioned, a Phase One ESA[4] and Phase Two ESA[5], and a Geotechnical Investigation[6] were previously completed by GHD in 2022. More recently, in July 2023 GHD completed limited screening/sampling activities of the excavation sidewalls and base of the oil/water separator/tank excavation. The previous investigative/sampling locations are presented on **Figure 2A** and **Figure 2B**. The salient findings of the aforementioned investigations as they relate to environmental quality on Site are summarized below.

– The Site was previously owned by Migus Autowork Limited since 2009 prior to being acquired by the City. The Site consists of a parcel of land totaling approximately 0.62 hectares (1.5 acres) identified as parcel identification number (PIN): 13345-0060 LT (2524 Cawthra Road). The Site was first developed in the 1950s and has been utilized for a variety of industrial and commercial purposes including a disposal company (Dicarlo Disposal & Pallet Company), various automotive collision and repair shops, including Migus Autowork Limited, Hawley Collision Centre, Hank's Rentals Sales & Warehouse, and Trillium Sandblasting Ltd., as well as a machinery installation company (Great Lakes Mach Installations). The Site was developed with a storage and automotive garage in the 1960's, with an addition to the garage during the 1980's.
– In June 2022, eighteen (18) boreholes (BH1-22 through BH14-22) were advanced to depths ranging between 2.5 to 5.4 metres below ground surface (mBGS), four (4) of the boreholes were instrumented as monitoring wells (MW1-22 through MW4-22).
– The stratigraphy at the Site generally consists of fill material (mix of sand and gravel, and silty clay material up to a maximum depth of approximately 2.3 mBGS. The native soils underlying the fill consist of primarily silty clay/sandy silty clay up to a maximum depth of approximately 4.0 mBGS. Weathered shale bedrock was encountered below the native soils, at depths ranging from 2.3 mBGS to 4.0 mBGS.
– Based on water levels collected on June 17, 2022; the groundwater table at the Site is present at depths ranging from 0.42 mBGS [98.83 metres above site datum (mASD)] to 2.96 mBGS (96.149 mASD). Groundwater flow was interpreted to generally flow in a northwesterly direction.
– Soil samples were collected for laboratory analysis of one or more of the following parameters: metals/inorganics, petroleum hydrocarbon fractions (PHCs) F1 through F4, benzene, toluene, ethylbenzene and xylenes (BTEX), volatile organic compounds (VOCs), polycyclic aromatic hydrocarbons (PAHs) and/or polychlorinated biphenyls (PCBs). One representative soil sample was collected for toxicity characteristic leaching procedure (TCLP) analysis to characterize the soil for off-Site disposal at a MECP-approved waste disposal facility.
– Groundwater samples were collected for laboratory analysis of metals/inorganics, PHCs, BTEX, VOCs, PAHs and PCBs.

[4] Phase One Environmental Site Assessment, 2524 Cawthra Road, Mississauga, Ontario. Prepared by GHD Limited, for The Corporation of the City of Mississauga, dated November 15, 2022.

[5] Phase Two Environmental Site Assessment, 2524 Cawthra Road, Mississauga, Ontario. Prepared by GHD Limited, for The Corporation of the City of Mississauga, dated November 15, 2022.

[6] Geotechnical Investigation and Design Report, 2524 Cawthra Road, Mississauga, Ontario. Prepared by GHD Limited, for The Corporation of the City of Mississauga, dated October 28, 2022.

– Based on the bulk soil analytical results, all analyzed parameters had concentrations below the applicable 2011 Ministry of the Environment (MOE) Table 3 and Table 7 industrial/commercial/community (ICC) Site Condition Standards (SCS)[7] (2011 MOE Standards), with the exception of metals (including arsenic, cadmium, chromium, lead, vanadium and zinc), inorganics [pH and sodium adsorption ratio (SAR)], PAHs (Acenaphthylene, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b/j)fluoranthene, Benzo(k)fluoranthene, Chrysene, Dibenz(a,h)anthracene, Fluoranthene, Indeno(1,2,3-cd)pyrene and phenanthrene); and PHC F3 and F4G. A summary of the historical analytical results for the above noted parameters are provided on **Figure 3A** through **3C**.
– Based on the TCLP results in accordance with O. Reg. 347, Schedule 4 Leachate Quality Criteria, the soil cuttings generated during the drilling activities were classified as non-hazardous solid waste.
– Based on the groundwater results, all analyzed parameters had concentrations below the 2011 MOE Table 3 and Table 7 Standards.

During the garage demolition activities undertaken by others at the Site in July 2023, the oil/water separator/tank was removed and 403.32 tonnes of impacted soil were excavated from its vicinity.

– Soil samples were reportedly collected by others from the base and sidewalls of the tank excavation and submitted for laboratory analysis of PHCs and BTEX. All analyzed parameters were reported to have concentrations below the 2011 MOE Table 3 Standards with the exception of PHC F2 and F3 from a sample collected along one of the walls of the excavation.
– Based on a review of the Contractor's analytical results, the City retained GHD to collect screening and confirmatory soil samples from the excavation walls and floor.
– On July 24, 2023, GHD measured the final footprint of the excavation to be approximately 4.7 metres (m) in length and 4.6 m in width. The excavation was advanced to depths ranging from approximately 1.2 to 1.5 mBGS. GHD collected eighteen (18) soil screening samples from the sidewalls and floor of the excavation. Select samples were submitted for laboratory analysis based on field evidence of impact. Seven (7) soil samples [two (2) floor samples, four (4) sidewall samples and one (1) field duplicate] were submitted for laboratory analysis. The preliminary analytes included PHC F2 to PHC F4.
– Based on the soil analytical results, PHC F2 and/or F4G exceeded the 2011 MOE Table 3 Standards in all samples submitted for laboratory analysis. The previous sampling locations and a summary of analytical results are provided on **Figure 3D**. The extent of the impacts were not fully defined. PHC F4 impacts to soil were previously found widespread across the Site based on the findings of the 2022 Phase Two ESA.

3. Field Activities

3.1 Drilling

On September 20, 2023, nineteen (19) boreholes (BH101-23, BH103-23 through BH120-23) were advanced on Site to depths of up to 2.7 mBGS by Profile Drilling Inc. (Profile). Profile utilized a direct push probing unit (GeoProbe Model 9630 VTR Pro) and soil samples were retrieved continuously in 0.60-metre (2-foot) intervals using dedicated sampling equipment. BH102-23 was manually advanced by GHD utilizing a hand-auger, within the former o/w separator excavation to a depth of approximately 1.83 mBGS. The investigative locations are presented on **Figure 2B**.

[7] MOE, "Soil, Groundwater and Sediment Standards for use under Part XV.1 of the Environmental Protection Act", dated April 15, 2011, referenced in Ontario Regulation 153/04 (Records of Site Condition).

3.2 Soil Sampling Activities

Soil samples were collected from the boreholes advanced in September 2023. Soil sample collection from each borehole was facilitated through the use of disposable macro-core acetate liners or dedicated sampling equipment. Prior to use and between each borehole, the drilling and sampling equipment was thoroughly cleaned using Alconox® soap and potable water rinse.

Soil samples obtained from each borehole were qualitatively and quantitatively screened for the presence of impact. Qualitative screening was based on visual and olfactory observations, while quantitative screening was based on the presence of undifferentiated VOCs in the headspace of soil samples collected as measured using a RKI GX-6000 photoionization detector (PID). The logged soil information is summarized in the stratigraphic logs provided in **Attachment A**.

Soil samples selected for laboratory analysis were placed in laboratory-supplied glass sample containers specific to the analytical parameters which were placed in a cooler containing ice for sample preservation. Undisturbed samples for VOC analysis were placed directly in sample containers provided by the laboratory. All soil samples were collected using the required sampling techniques in accordance with O. Reg. 153/04, including the methanol field preservation method for soil sample analysis of PHC F_1 and VOCs.

Fourteen (14) soil samples (including two field duplicates) were collected from select boreholes for laboratory analysis of PHCs and BTEX. Four (4) soil samples were submitted for laboratory analysis of VOCs. A sample identification key is presented in **Table 1**. Samples selected for laboratory analysis were chosen to characterize the nature of the impact and delineate the extent of the impact.

Soil samples were submitted to a Canadian Association of Laboratory Accreditation (CALA) accredited laboratory, Bureau Veritas Laboratories (BV) for analysis.

3.3 Field Quality Assurance and Quality Control Program

Soil samples were collected in laboratory-supplied sample containers specific to the analytical parameter, transported in a cooler with ice, and submitted to BV in Mississauga, Ontario.

A Quality Assurance/Quality Control (QA/QC) program was implemented to ensure quality data was generated. In general, one QA/QC sample was submitted for analysis for every ten samples collected. The QA/QC program included the collection of two (2) field duplicate samples and a trip blank sample. The field duplicate samples were one of two samples taken from the same media (i.e., soil) at the same location and time following the same sampling procedures in an identical manner. The field duplicate samples are used to validate field and laboratory analysis. The trip blank was a sample of analyte-free media prepared by the laboratory, taken to the Site and returned to the laboratory unopened. The trip blank is used to document contamination attributable to shipping and field handling procedures. In addition to the above, QC samples were analyzed by the laboratory as required by their analytical methods.

4. Findings

4.1 Geology

Detailed descriptions of the geologic deposits encountered at each borehole location are presented on the stratigraphic logs provided in **Attachment A**. The general stratigraphy was found to consist of a layer of fill (comprised of sand/gravel) extending from surface to depths of up to 1.52 mBGS which was either underlain by fill or native deposits extending to borehole termination (2.7 mBGS).

4.2 Field Screening

Field evidence of impact (staining, odour and/or elevated PID readings) were observed during the drilling activities at BH101-23 to BH103-23; and BH107-23 through BH114-23. Petroleum hydrocarbon odours and/or black staining were noted at these locations at depths ranging between 0.61 to 2.13 mBGS. PID readings were measured to be between 0.0 and 222 parts per million (ppm), with the highest readings noted at BH105-23 (0.6 to 1.22 mBGS – 45 ppm) advanced adjacent to the southwest of the excavation; and at BH111-23 (1.8-2.13 mBGS – 222 ppm) advanced adjacent to the east of the excavation.

Deleterious material or wood debris was encountered within the fill material at BH108-23, BH110-23, BH112-23, and BH113-23 at depths of between 0.46 and 1.83 mBGS.

5. Analytical Results

5.1 Regulatory Standard

The soil analytical results were assessed to the generic standards provided in the Ministry of the Environment[8] document entitled "*Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act*", dated April 15, 2011 (hereinafter referred to as the 2011 Generic Standards). The bulk soil analytical results were assessed to the following standards:

– Table 3: Full Depth Site Condition Standards in a Non-Potable Groundwater Condition (Table 3 Generic Standards).
– Table 7: Generic Site Condition Standards for Shallow Soils in a Non-Potable Groundwater Condition (Table 7 Generic Standards).

The soil analytical data was assessed using Industrial/Commercial/Community (ICC) Property Use and medium to fine-textured soil standards.

5.1.1 Soil Quality

The data set for the September 2023 soil sampling activities is presented in **Table 2**. Laboratory certificates of analysis are presented in **Attachment B**. A summary of the analytical results for the above noted parameters is provided on **Figure 4**.

Based on the soil analytical results, all analyzed parameters had concentrations below the 2011 MOE Table 3 and 7 ICC standards, with the exception of the following:

– PHC F1 and F2 were detected at concentrations (150 µg/g and 410 µg/g, respectively), above the 2011 MOE Table 3 and Table 7 Standards at BH111-23 collected at a depth of 1.83 to 2.13 mBGS.
– PHC F4G was detected at a concentration (7,300 µg/g), above the 2011 MOE Table 3 and Table 7 Standards at BH104-23 collected at a depth of 0.61 to 1.22 mBGS.

PHC impacts to soil remain on Site in the vicinity of the oil/water separator/tank excavation area. Based on the analytical results for the outermost investigative locations advanced to west and south of the oil/water separator/tank excavation (BH119-23, BH115-23, BH116-23, BH106-23, BH120-23 and BH112-23), the impacts are delineated to the south and west. Based on the analytical results and field observations, the impacts are not fully defined to the north and east of the separator/tank excavation (refer to **Figure 4**).

[8] Currently Ministry of Environment Conservation and Parks (MECP).

6. Conclusions

Based on the findings of the supplementary environmental investigation, PHC impacts to soil remain on Site in the vicinity of the oil/water separator/tank excavation area. Based on the analytical results for the outermost investigative locations advanced to west and south of the oil/water separator/tank excavation, the impacts are delineated on Site to the south and west but are not fully defined to the north and east of the separator/tank excavation. Groundwater quality was previously investigated in 2022 as part of the Phase Two ESA and all analyzed parameters (including PHCs) were detected at concentrations below the MOE standards at that time.

We trust this meets your current needs at this time. Should you have any questions, please do not hesitate to contact the undersigned.

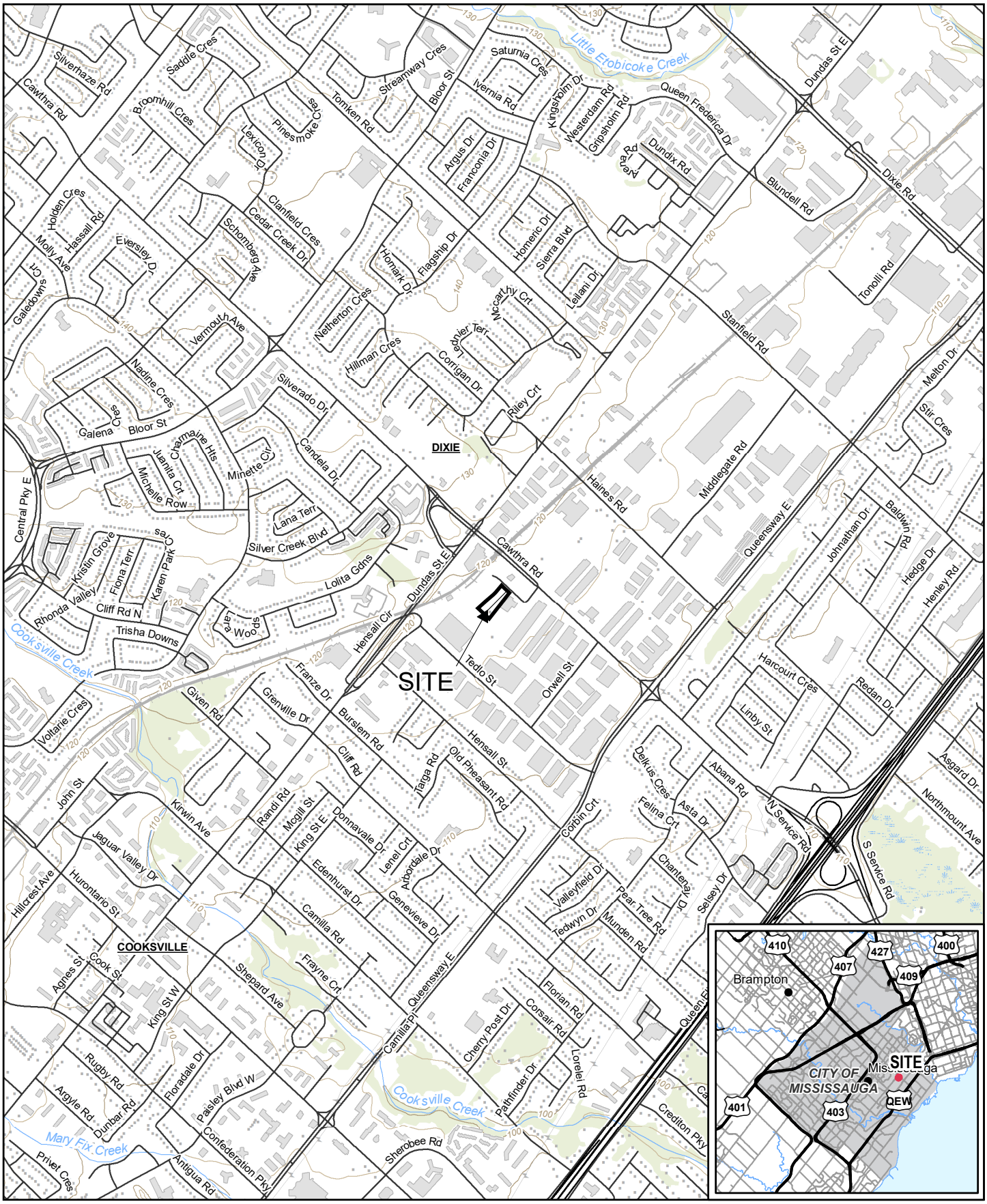
Regards,

GHD

Chanel McMahon B.Sc. **Julia Serink, P. Eng., QP_{ESA}**

Encl.

Figures



Paper Size ANSI A

0 130 260 390 520

Metres

Map Projection: Transverse Mercator
Horizontal Datum: North American 1983
Grid: NAD 1983 UTM Zone 17N

N

GHD

THE CORPORATION OF THE CITY OF MISSISSAUGA
2524 CAWTHRA ROAD, MISSISSAUGA, ONTARIO
SUPPLEMENTARY ENVIRONMENTAL INVESTIGATION

Project No. **12581540**
Revision No. **-**
Date **Nov 7, 2023**

SITE LOCATION MAP

FIGURE 1

Q:\GIS\PROJECTS\12581000s\12581540\Layouts\LTR005\12581540_202311_LTR005_GIS001.mxd
Print date: 07 Nov 2023 - 08:58

LEGEND

- PROPERTY BOUNDARY
- ABOVE GROUND STORAGE TANK
- BOREHOLE LOCATION [UP TO 2.5 mBGS (GHD, JUNE 2022)]
- BOREHOLE LOCATION [UP TO 6.0 mBGS (GHD, JUNE 2022)]
- DELINEATION BOREHOLE LOCATION [UP TO 2.7 mBGS (GHD, SEPTEMBER 2022)]
- DECOMMISIONED MONITORING WELL LOCATION (GHD 2022)
- FORMER OIL/WATER SEPERATOR EXCAVATION

0 7.5 15 22.5m

1:750

Coordinate System:
UTM with NAD83 datum, Zone 17, Meter

Plan North

N

GHD

THE CORPORATION OF THE CITY OF MISSISSAUGA
2524 CAWTHRA ROAD, MISSISSAUGA, ONTARIO
SUPPLEMENTARY ENVIRONMENTAL INVESTIGATION

SITE PLAN & INVESTIGATIVE LOCATIONS

Project No. **12581540**
Date **November 2023**

FIGURE 2A

Filename: N:\CA\Mississauga\Projects\662\12581540\Digital_Design\ACAD\Figures\LTR005\12581540-GHD-00-00-LTR-EN-D101_WA-005.DWG
Plot Date: 07 November 2023 9:51 AM

LEGEND

- PROPERTY BOUNDARY
- ABOVE GROUND STORAGE TANK
- BOREHOLE LOCATION [UP TO 2.5 mBGS (GHD, JUNE 2022)]
- BOREHOLE LOCATION [UP TO 6.0 mBGS (GHD, JUNE 2022)]
- DELINEATION BOREHOLE LOCATION [UP TO 2.7 mBGS (GHD, SEPTEMBER 2023)]
- DECOMMISIONED MONITORING WELL LOCATION (GHD 2022)
- SOIL SAMPLE LOCATION (GHD, JULY 2023)
- FORMER OIL/WATER SEPERATOR EXCAVATION

0 1.5 3 4.5m

1:150

Coordinate System:
UTM with NAD83 datum, Zone 17, Meter

Plan North

N

GHD

THE CORPORATION OF THE CITY OF MISSISSAUGA
2524 CAWTHRA ROAD, MISSISSAUGA, ONTARIO
SUPPLEMENTARY ENVIRONMENTAL INVESTIGATION

SITE PLAN & INVESTIGATIVE LOCATIONS

Project No. **12581540**
Date **November 2023**

FIGURE 2B

Filename: N:\CA\Mississauga\Projects\662\12581540\Digital_Design\ACAD\Figures\LTR005\12581540-GHD-00-00-LTR-EN-D102_WA-005.DWG
Plot Date: 07 November 2023 9:51 AM

DATA SOURCE: @2023 PLEX-EARTH - IMAGE @2023 GOOGLE MAPS

LEGEND

- PROPERTY BOUNDARY
- ABOVE GROUND STORAGE TANK
- BOREHOLE LOCATION (UP TO 2.5 mBGS)
- BOREHOLE LOCATION (UP TO 6.0 mBGS)
- MONITORING WELL LOCATION (UP TO 6.0 mBGS)

BH6-22	06/14/2022
	0.00-0.60
PHC F3 (C16-C34)	1400
PHC F4 (C34-C50)	3580
PHC F4 gravimetric - silica gel (GHH)	11200

- SAMPLE LOCATION
- SAMPLE DATE
- SAMPLE DEPTH (mBGS)
- RESULT
- PARAMETER

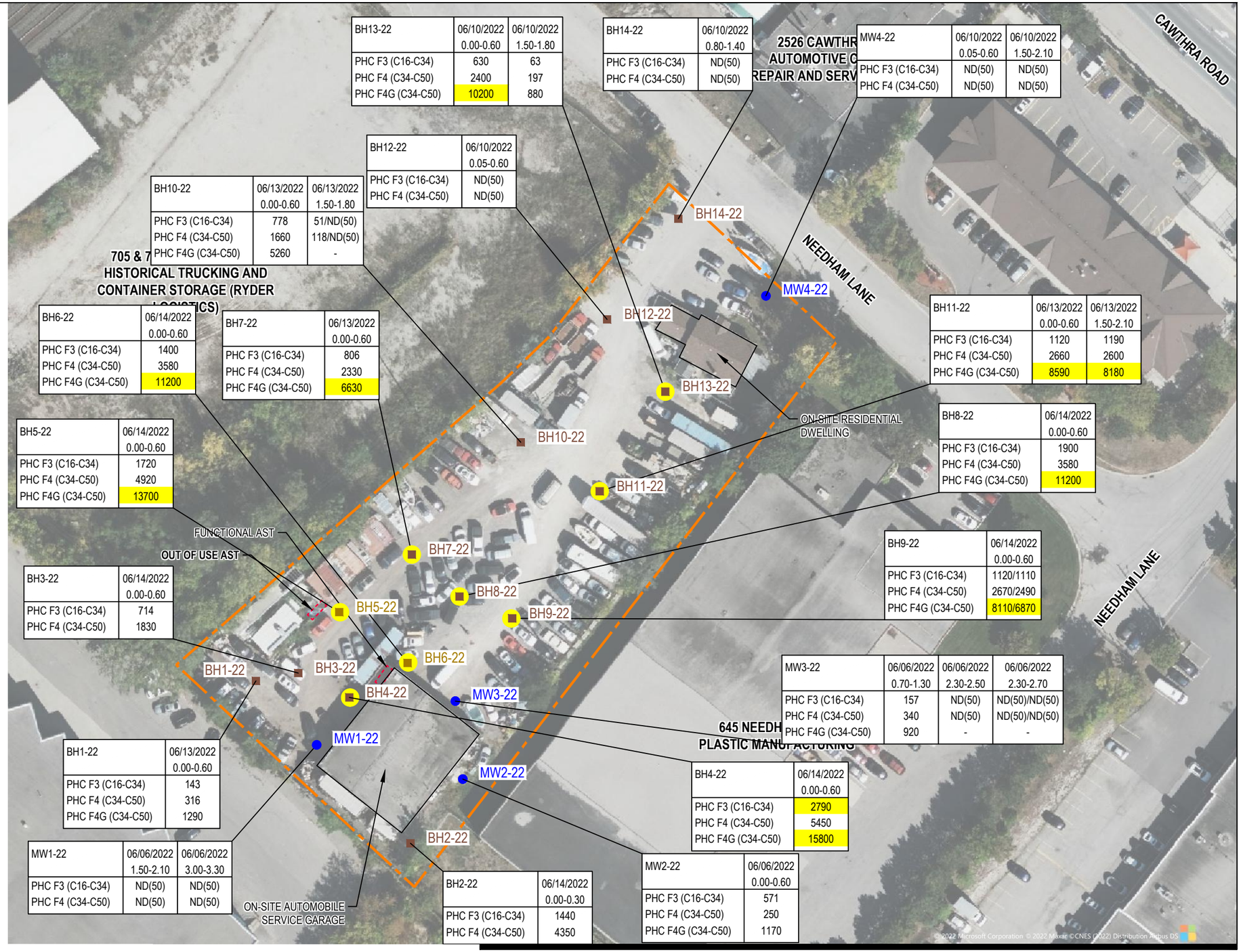
CONCENTRATION ABOVE MOE TABLE 3 & 7 STANDARDS

Parameter	Unit	Criteria Value	
		TABLE 3	TABLE 7
PHC F3 (C16-C34)	ug/g	2500	2500
PHC F4 (C34-C50)	ug/g	6600	6600
PHC F4 gravimetric - silica gel (GHH)	ug/g	6600	6600

NOTE:

(1) ONTARIO MINISTRY OF THE ENVIRONMENT (MOE), "SOIL, GROUND WATER AND SEDIMENT STANDARDS FOR USE UNDER PART XV.1 OF THE ENVIRONMENTAL PROTECTION ACT", DATED APRIL 15, 2011. TABLE 3: FULL DEPTH GENERIC SITE CONDITION STANDARDS IN A NON-POTABLE GROUNDWATER CONDITION FOR INDUSTRIAL/COMMERCIAL/COMMUNITY PROPERTY USE FOR MEDIUM-FINE TEXTURED SOILS

(2) ONTARIO MINISTRY OF THE ENVIRONMENT (MOE), "SOIL, GROUND WATER AND SEDIMENT STANDARDS FOR USE UNDER PART XV.1 OF THE ENVIRONMENTAL PROTECTION ACT", DATED APRIL 15, 2011. TABLE 7: GENERIC SITE CONDITION STANDARDS FOR SHALLOW SOILS IN A NON-POTABLE GROUNDWATER CONDITION FOR INDUSTRIAL/COMMERCIAL/COMMUNITY PROPERTY USE FOR MEDIUM-FINE TEXTURED SOILS



BH13-22	06/10/2022	06/10/2022
	0.00-0.60	1.50-1.80
PHC F3 (C16-C34)	630	63
PHC F4 (C34-C50)	2400	197
PHC F4G (C34-C50)	10200	880

BH14-22	06/10/2022
	0.80-1.40
PHC F3 (C16-C34)	ND(50)
PHC F4 (C34-C50)	ND(50)

MW4-22	06/10/2022	06/10/2022
	0.05-0.60	1.50-2.10
PHC F3 (C16-C34)	ND(50)	ND(50)
PHC F4 (C34-C50)	ND(50)	ND(50)

BH12-22	06/10/2022
	0.05-0.60
PHC F3 (C16-C34)	ND(50)
PHC F4 (C34-C50)	ND(50)

BH10-22	06/13/2022	06/13/2022
	0.00-0.60	1.50-1.80
PHC F3 (C16-C34)	778	51/ND(50)
PHC F4 (C34-C50)	1660	118/ND(50)
PHC F4G (C34-C50)	5260	-

BH6-22	06/14/2022
	0.00-0.60
PHC F3 (C16-C34)	1400
PHC F4 (C34-C50)	3580
PHC F4G (C34-C50)	11200

BH7-22	06/13/2022
	0.00-0.60
PHC F3 (C16-C34)	806
PHC F4 (C34-C50)	2330
PHC F4G (C34-C50)	6630

BH11-22	06/13/2022	06/13/2022
	0.00-0.60	1.50-2.10
PHC F3 (C16-C34)	1120	1190
PHC F4 (C34-C50)	2660	2600
PHC F4G (C34-C50)	8590	8180

BH8-22	06/14/2022
	0.00-0.60
PHC F3 (C16-C34)	1900
PHC F4 (C34-C50)	3580
PHC F4G (C34-C50)	11200

BH5-22	06/14/2022
	0.00-0.60
PHC F3 (C16-C34)	1720
PHC F4 (C34-C50)	4920
PHC F4G (C34-C50)	13700

BH9-22	06/14/2022
	0.00-0.60
PHC F3 (C16-C34)	1120/1110
PHC F4 (C34-C50)	2670/2490
PHC F4G (C34-C50)	8110/6870

BH3-22	06/14/2022
	0.00-0.60
PHC F3 (C16-C34)	714
PHC F4 (C34-C50)	1830

MW3-22	06/06/2022	06/06/2022	06/06/2022
	0.70-1.30	2.30-2.50	2.30-2.70
PHC F3 (C16-C34)	157	ND(50)	ND(50)/ND(50)
PHC F4 (C34-C50)	340	ND(50)	ND(50)/ND(50)
PHC F4G (C34-C50)	920	-	-

BH4-22	06/14/2022
	0.00-0.60
PHC F3 (C16-C34)	2790
PHC F4 (C34-C50)	5450
PHC F4G (C34-C50)	15800

BH1-22	06/13/2022
	0.00-0.60
PHC F3 (C16-C34)	143
PHC F4 (C34-C50)	316
PHC F4G (C34-C50)	1290

MW1-22	06/06/2022	06/06/2022
	1.50-2.10	3.00-3.30
PHC F3 (C16-C34)	ND(50)	ND(50)
PHC F4 (C34-C50)	ND(50)	ND(50)

BH2-22	06/14/2022
	0.00-0.30
PHC F3 (C16-C34)	1440
PHC F4 (C34-C50)	4350

MW2-22	06/06/2022
	0.00-0.60
PHC F3 (C16-C34)	571
PHC F4 (C34-C50)	250
PHC F4G (C34-C50)	1170

0 7.5 15 22.5m

1:750

Coordinate System:
UTM with NAD83 datum, Zone 17, Meter

Plan North

N

GHD

THE CORPORATION OF THE CITY OF MISSISSAUGA
2524 CAWTHRA ROAD, MISSISSAUGA, ONTARIO
SUPPLEMENTARY ENVIRONMENTAL INVESTIGATION

SUMMARY OF HISTORICAL SOIL ANALYTICAL RESULTS - PHCs

Project No. **12581540**
Date **November 2023**

FIGURE 3A

Filename: N:\CA\Mississauga\Projects\662\12581540\Digital_Design\ACAD\Figures\LTR005\12581540-GHD-00-00-LTR-EN-D105_WA-005.DWG
Plot Date: 07 November 2023 9:51 AM

LEGEND

- PROPERTY BOUNDARY
- ABOVE GROUND STORAGE TANK
- BOREHOLE LOCATION (UP TO 2.5 mBGS)
- BOREHOLE LOCATION (UP TO 6.0 mBGS)
- MONITORING WELL LOCATION (UP TO 6.0 mBGS)

BH6-22	06/14/2022 0.00-0.60
PHC F3 (C16-C34)	1400
PHC F4 (C34-C50)	3580
PHC F4 gravimetric - silica gel (GHH)	11200

- SAMPLE LOCATION
- SAMPLE DATE
- SAMPLE DEPTH (mBGS)
- RESULT (ug/g)
- PARAMETER

CONCENTRATION ABOVE MOE TABLE 3 & 7 STANDARDS

Parameter	Unit	Criteria Value	
		Table 3	Table 7
Acenaphthylene	ug/g	0.17	0.17
Anthracene	ug/g	0.74	0.74
Benzo(a)anthracene	ug/g	0.96	0.96
Benzo(a)pyrene	ug/g	0.3	0.3
Benzo(b)fluoranthene/Benzo(j)fluoranthene	ug/g	0.96	0.96
Benzo(k)fluoranthene	ug/g	0.96	0.96
Chrysene	ug/g	9.6	9.6
Dibenz(a,h)anthracene	ug/g	0.1	0.1
Fluoranthene	ug/g	9.6	9.6
Indeno(1,2,3-cd)pyrene	ug/g	0.95	0.95
Phenanthrene	ug/g	16	16

NOTE:

(1) ONTARIO MINISTRY OF THE ENVIRONMENT (MOE), "SOIL, GROUND WATER AND SEDIMENT STANDARDS FOR USE UNDER PART XV.1 OF THE ENVIRONMENTAL PROTECTION ACT", DATED APRIL 15, 2011. TABLE 3: FULL DEPTH GENERIC SITE CONDITION STANDARDS IN A NON-POTABLE GROUNDWATER CONDITION FOR INDUSTRIAL/COMMERCIAL/COMMUNITY PROPERTY USE FOR MEDIUM-FINE TEXTURED SOILS

(2) ONTARIO MINISTRY OF THE ENVIRONMENT (MOE), "SOIL, GROUND WATER AND SEDIMENT STANDARDS FOR USE UNDER PART XV.1 OF THE ENVIRONMENTAL PROTECTION ACT", DATED APRIL 15, 2011. TABLE 7: GENERIC SITE CONDITION STANDARDS FOR SHALLOW SOILS IN A NON-POTABLE GROUNDWATER CONDITION FOR INDUSTRIAL/COMMERCIAL/COMMUNITY PROPERTY USE FOR MEDIUM-FINE TEXTURED SOILS

BH10-22	06/13/2022 0.00-0.60
Acenaphthylene	ND(0.050)
Anthracene	0.499
Benzo(a)anthracene	0.704
Benzo(a)pyrene	0.667
Benzo(b/j)fluoranthene	0.831
Benzo(k)fluoranthene	0.258
Chrysene	0.702
Dibenz(a,h)anthracene	0.120
Fluoranthene	1.67
Indeno(1,2,3-cd)pyrene	0.331
Phenanthrene	1.83

BH13-22	06/10/2022 0.00-0.60
Acenaphthylene	ND(0.050)
Anthracene	ND(0.050)
Benzo(a)anthracene	ND(0.050)
Benzo(a)pyrene	ND(0.050)
Benzo(b/j)fluoranthene	ND(0.050)
Benzo(k)fluoranthene	ND(0.050)
Chrysene	ND(0.050)
Dibenz(a,h)anthracene	ND(0.050)
Fluoranthene	ND(0.050)
Indeno(1,2,3-cd)pyrene	ND(0.050)
Phenanthrene	ND(0.050)

MW4-22	06/10/2022 0.05-0.60
Acenaphthylene	ND(0.050)
Anthracene	ND(0.050)
Benzo(a)anthracene	ND(0.050)
Benzo(a)pyrene	ND(0.050)
Benzo(b/j)fluoranthene	ND(0.050)
Benzo(k)fluoranthene	ND(0.050)
Chrysene	ND(0.050)
Dibenz(a,h)anthracene	ND(0.050)
Fluoranthene	ND(0.050)
Indeno(1,2,3-cd)pyrene	ND(0.050)
Phenanthrene	ND(0.050)

BH11-22	06/13/2022 0.00-0.60
Acenaphthylene	0.570
Anthracene	8.21
Benzo(a)anthracene	17.6
Benzo(a)pyrene	14.8
Benzo(b/j)fluoranthene	15.8
Benzo(k)fluoranthene	8.73
Chrysene	15.4
Dibenz(a,h)anthracene	2.28
Fluoranthene	39.1
Indeno(1,2,3-cd)pyrene	7.76
Phenanthrene	30.7

BH8-22	06/14/2022 0.00-0.60
Acenaphthylene	ND(0.050)/ND(0.050)
Anthracene	0.243/0.292
Benzo(a)anthracene	0.774/1.09
Benzo(a)pyrene	0.784/1.14
Benzo(b/j)fluoranthene	0.930/1.44
Benzo(k)fluoranthene	0.406/0.498
Chrysene	0.936/1.24
Dibenz(a,h)anthracene	0.153/0.190
Fluoranthene	1.89/2.63
Indeno(1,2,3-cd)pyrene	0.478/0.612
Phenanthrene	1.04/1.36

BH5-22	06/14/2022 0.00-0.60
Acenaphthylene	ND(0.050)
Anthracene	ND(0.050)
Benzo(a)anthracene	0.065
Benzo(a)pyrene	0.147
Benzo(b/j)fluoranthene	0.158
Benzo(k)fluoranthene	0.056
Chrysene	0.203
Dibenz(a,h)anthracene	ND(0.050)
Fluoranthene	0.132
Indeno(1,2,3-cd)pyrene	0.114
Phenanthrene	0.100

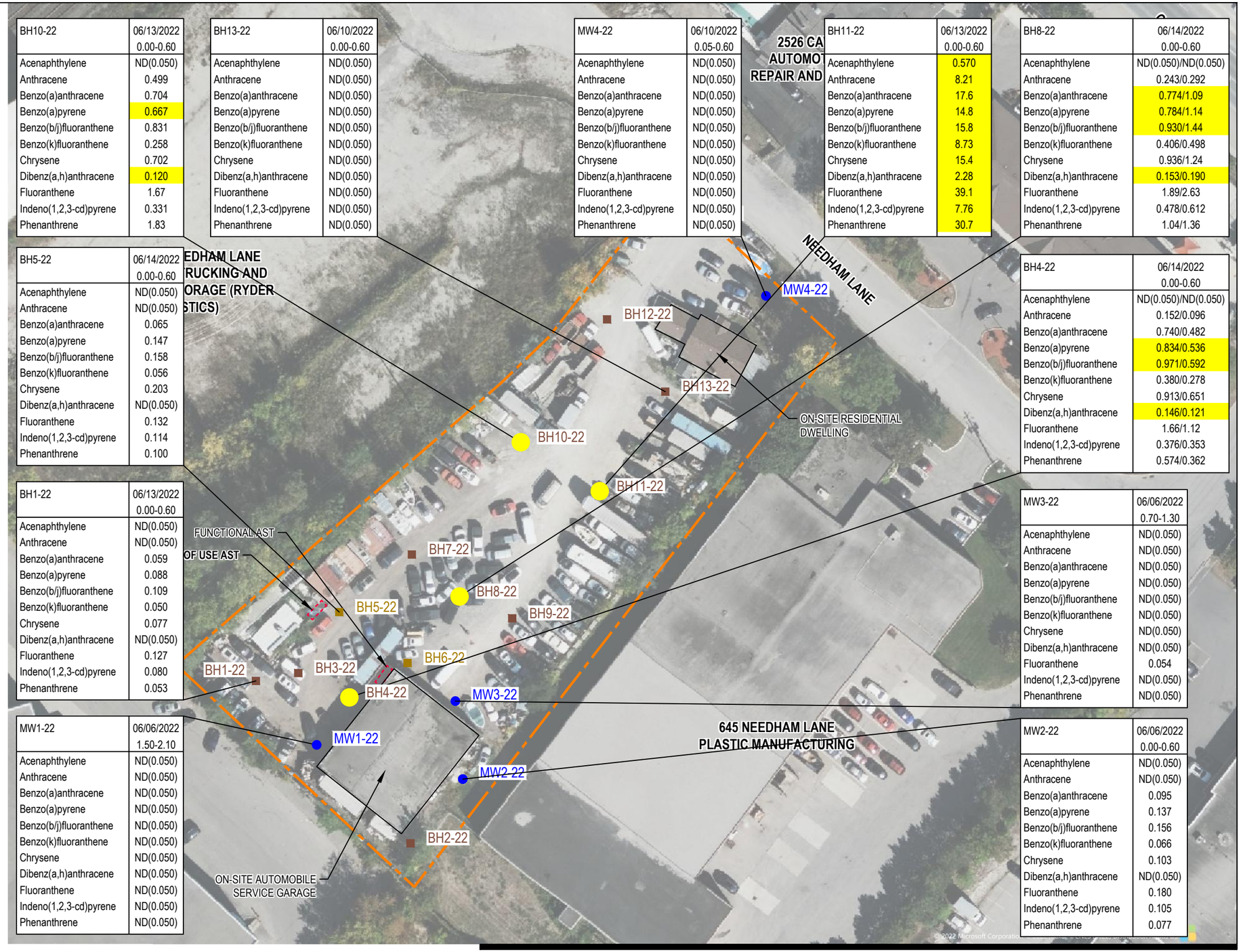
BH4-22	06/14/2022 0.00-0.60
Acenaphthylene	ND(0.050)/ND(0.050)
Anthracene	0.152/0.096
Benzo(a)anthracene	0.740/0.482
Benzo(a)pyrene	0.834/0.536
Benzo(b/j)fluoranthene	0.971/0.592
Benzo(k)fluoranthene	0.380/0.278
Chrysene	0.913/0.651
Dibenz(a,h)anthracene	0.146/0.121
Fluoranthene	1.66/1.12
Indeno(1,2,3-cd)pyrene	0.376/0.353
Phenanthrene	0.574/0.362

BH1-22	06/13/2022 0.00-0.60
Acenaphthylene	ND(0.050)
Anthracene	ND(0.050)
Benzo(a)anthracene	0.059
Benzo(a)pyrene	0.088
Benzo(b/j)fluoranthene	0.109
Benzo(k)fluoranthene	0.050
Chrysene	0.077
Dibenz(a,h)anthracene	ND(0.050)
Fluoranthene	0.127
Indeno(1,2,3-cd)pyrene	0.080
Phenanthrene	0.053

MW3-22	06/06/2022 0.70-1.30
Acenaphthylene	ND(0.050)
Anthracene	ND(0.050)
Benzo(a)anthracene	ND(0.050)
Benzo(a)pyrene	ND(0.050)
Benzo(b/j)fluoranthene	ND(0.050)
Benzo(k)fluoranthene	ND(0.050)
Chrysene	ND(0.050)
Dibenz(a,h)anthracene	ND(0.050)
Fluoranthene	0.054
Indeno(1,2,3-cd)pyrene	ND(0.050)
Phenanthrene	ND(0.050)

MW1-22	06/06/2022 1.50-2.10
Acenaphthylene	ND(0.050)
Anthracene	ND(0.050)
Benzo(a)anthracene	ND(0.050)
Benzo(a)pyrene	ND(0.050)
Benzo(b/j)fluoranthene	ND(0.050)
Benzo(k)fluoranthene	ND(0.050)
Chrysene	ND(0.050)
Dibenz(a,h)anthracene	ND(0.050)
Fluoranthene	ND(0.050)
Indeno(1,2,3-cd)pyrene	ND(0.050)
Phenanthrene	ND(0.050)

MW2-22	06/06/2022 0.00-0.60
Acenaphthylene	ND(0.050)
Anthracene	ND(0.050)
Benzo(a)anthracene	0.095
Benzo(a)pyrene	0.137
Benzo(b/j)fluoranthene	0.156
Benzo(k)fluoranthene	0.066
Chrysene	0.103
Dibenz(a,h)anthracene	ND(0.050)
Fluoranthene	0.180
Indeno(1,2,3-cd)pyrene	0.105
Phenanthrene	0.077



0 7.5 15 22.5m

1:750

Coordinate System: UTM with NAD83 datum, Zone 17, Meter

Plan North

N

GHD

THE CORPORATION OF THE CITY OF MISSISSAUGA
2524 CAWTHRA ROAD, MISSISSAUGA, ONTARIO
SUPPLEMENTARY ENVIRONMENTAL INVESTIGATION

SUMMARY OF HISTORICAL SOIL ANALYTICAL RESULTS - PAHs

Project No. **12581540**
Date **November 2023**

FIGURE 3B

Filename: N:\CA\Mississauga\Projects\662\12581540\Digital_Design\ACAD\Figures\LTR005\12581540-GHD-00-00-LTR-EN-D106_WA-005.DWG
Plot Date: 07 November 2023 9:51 AM

LEGEND

- PROPERTY BOUNDARY
- ABOVE GROUND STORAGE TANK
- BOREHOLE LOCATION (UP TO 2.5 mBGS)
- BOREHOLE LOCATION (UP TO 6.0 mBGS)
- MONITORING WELL LOCATION (UP TO 6.0 mBGS)

BH6-22	06/14/2022
	0.00-0.60
PHC F3 (C16-C34)	1400
PHC F4 (C34-C50)	3580
PHC F4 gravimetric - silica gel (GHH)	11200

- SAMPLE LOCATION
- SAMPLE DATE
- SAMPLE DEPTH (mBGS)
- RESULT (ug/g)
- PARAMETER

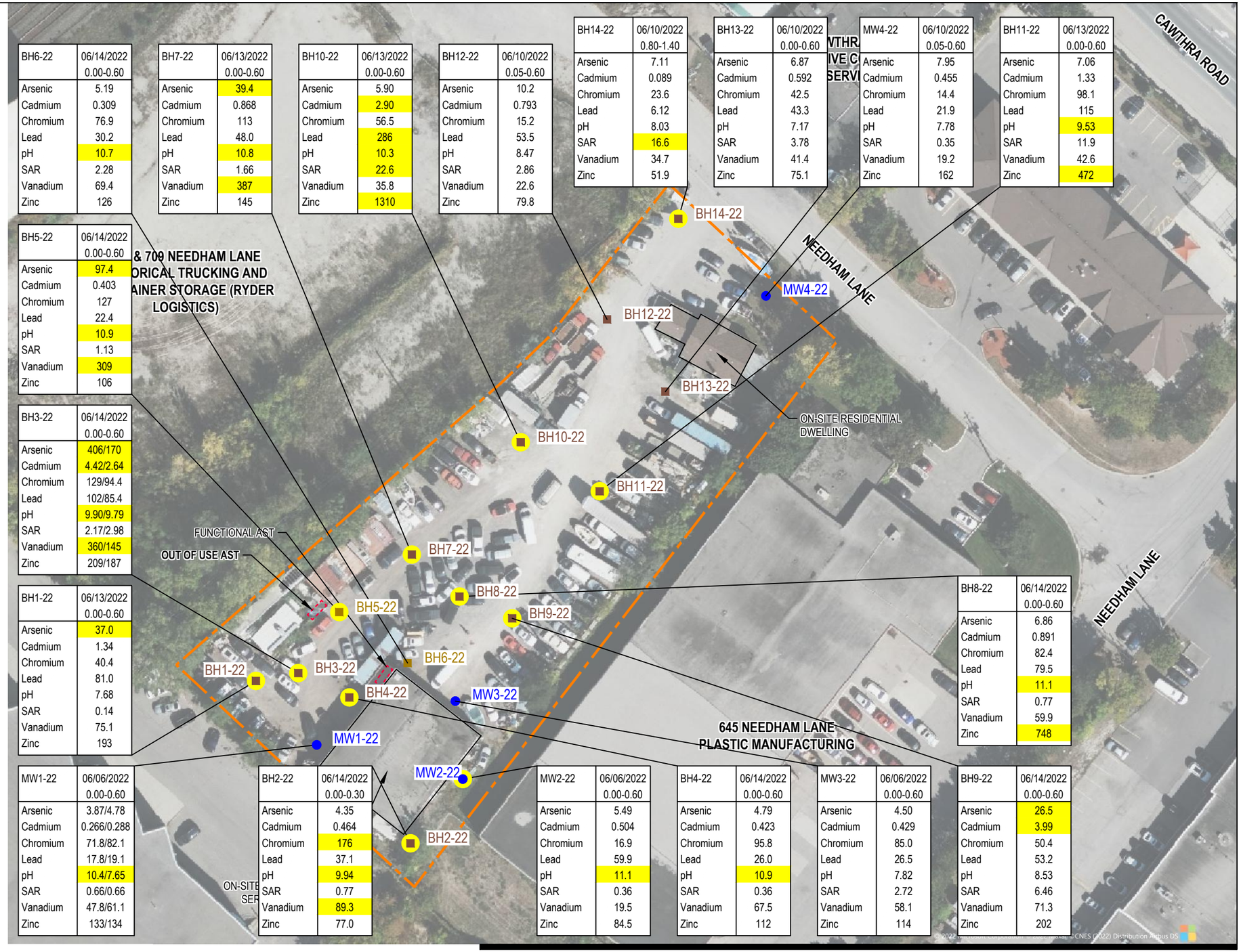
CONCENTRATION ABOVE MOE TABLE 3 & 7 STANDARDS

Parameter	Unit	Criteria Value	
		Table 3	Table 7
Arsenic	ug/g	18	18
Cadmium	ug/g	1.9	1.9
Chromium	ug/g	160	160
Lead	ug/g	120	120
pH	s.u.	5-9 ; 5-11	5-9 ; 5-11
SAR	ug/g	12	12
Vanadium	ug/g	86	86
Zinc	ug/g	340	340

NOTE:

(1) ONTARIO MINISTRY OF THE ENVIRONMENT (MOE), "SOIL, GROUND WATER AND SEDIMENT STANDARDS FOR USE UNDER PART XV.1 OF THE ENVIRONMENTAL PROTECTION ACT", DATED APRIL 15, 2011. TABLE 3: FULL DEPTH GENERIC SITE CONDITION STANDARDS IN A NON-POTABLE GROUNDWATER CONDITION FOR INDUSTRIAL/COMMERCIAL/COMMUNITY PROPERTY USE FOR MEDIUM-FINE TEXTURED SOILS

(2) ONTARIO MINISTRY OF THE ENVIRONMENT (MOE), "SOIL, GROUND WATER AND SEDIMENT STANDARDS FOR USE UNDER PART XV.1 OF THE ENVIRONMENTAL PROTECTION ACT", DATED APRIL 15, 2011. TABLE 7: GENERIC SITE CONDITION STANDARDS FOR SHALLOW SOILS IN A NON-POTABLE GROUNDWATER CONDITION FOR INDUSTRIAL/COMMERCIAL/COMMUNITY PROPERTY USE FOR MEDIUM-FINE TEXTURED SOILS



BH6-22	06/14/2022
	0.00-0.60
Arsenic	5.19
Cadmium	0.309
Chromium	76.9
Lead	30.2
pH	10.7
SAR	2.28
Vanadium	69.4
Zinc	126

BH7-22	06/13/2022
	0.00-0.60
Arsenic	39.4
Cadmium	0.868
Chromium	113
Lead	48.0
pH	10.8
SAR	1.66
Vanadium	387
Zinc	145

BH10-22	06/13/2022
	0.00-0.60
Arsenic	5.90
Cadmium	2.90
Chromium	56.5
Lead	286
pH	10.3
SAR	22.6
Vanadium	35.8
Zinc	1310

BH12-22	06/10/2022
	0.05-0.60
Arsenic	10.2
Cadmium	0.793
Chromium	15.2
Lead	53.5
pH	8.47
SAR	2.86
Vanadium	22.6
Zinc	79.8

BH14-22	06/10/2022
	0.80-1.40
Arsenic	7.11
Cadmium	0.089
Chromium	23.6
Lead	6.12
pH	8.03
SAR	16.6
Vanadium	34.7
Zinc	51.9

BH13-22	06/10/2022
	0.00-0.60
Arsenic	6.87
Cadmium	0.592
Chromium	42.5
Lead	43.3
pH	7.17
SAR	3.78
Vanadium	41.4
Zinc	75.1

MW4-22	06/10/2022
	0.05-0.60
Arsenic	7.95
Cadmium	0.455
Chromium	14.4
Lead	21.9
pH	7.78
SAR	0.35
Vanadium	19.2
Zinc	162

BH11-22	06/13/2022
	0.00-0.60
Arsenic	7.06
Cadmium	1.33
Chromium	98.1
Lead	115
pH	9.53
SAR	11.9
Vanadium	42.6
Zinc	472

BH5-22	06/14/2022
	0.00-0.60
Arsenic	97.4
Cadmium	0.403
Chromium	127
Lead	22.4
pH	10.9
SAR	1.13
Vanadium	309
Zinc	106

BH3-22	06/14/2022
	0.00-0.60
Arsenic	406/170
Cadmium	4.42/2.64
Chromium	129/94.4
Lead	102/85.4
pH	9.90/9.79
SAR	2.17/2.98
Vanadium	360/145
Zinc	209/187

BH1-22	06/13/2022
	0.00-0.60
Arsenic	37.0
Cadmium	1.34
Chromium	40.4
Lead	81.0
pH	7.68
SAR	0.14
Vanadium	75.1
Zinc	193

BH8-22	06/14/2022
	0.00-0.60
Arsenic	6.86
Cadmium	0.891
Chromium	82.4
Lead	79.5
pH	11.1
SAR	0.77
Vanadium	59.9
Zinc	748

MW1-22	06/06/2022
	0.00-0.60
Arsenic	3.87/4.78
Cadmium	0.266/0.288
Chromium	71.8/82.1
Lead	17.8/19.1
pH	10.4/7.65
SAR	0.66/0.66
Vanadium	47.8/61.1
Zinc	133/134

BH2-22	06/14/2022
	0.00-0.30
Arsenic	4.35
Cadmium	0.464
Chromium	176
Lead	37.1
pH	9.94
SAR	0.77
Vanadium	89.3
Zinc	77.0

MW2-22	06/06/2022
	0.00-0.60
Arsenic	5.49
Cadmium	0.504
Chromium	16.9
Lead	59.9
pH	11.1
SAR	0.36
Vanadium	19.5
Zinc	84.5

BH4-22	06/14/2022
	0.00-0.60
Arsenic	4.79
Cadmium	0.423
Chromium	95.8
Lead	26.0
pH	10.9
SAR	0.36
Vanadium	67.5
Zinc	112

MW3-22	06/06/2022
	0.00-0.60
Arsenic	4.50
Cadmium	0.429
Chromium	85.0
Lead	26.5
pH	7.82
SAR	2.72
Vanadium	58.1
Zinc	114

BH9-22	06/14/2022
	0.00-0.60
Arsenic	26.5
Cadmium	3.99
Chromium	50.4
Lead	53.2
pH	8.53
SAR	6.46
Vanadium	71.3
Zinc	202

0 7.5 15 22.5m

1:750

Coordinate System:
UTM with NAD83 datum, Zone 17, Meter

Plan North

N

GHD

THE CORPORATION OF THE CITY OF MISSISSAUGA
2524 CAWTHRA ROAD, MISSISSAUGA, ONTARIO
SUPPLEMENTARY ENVIRONMENTAL INVESTIGATION

SUMMARY OF HISTORICAL SOIL ANALYTICAL RESULTS - METALS & INORGANICS

Project No. **12581540**
Date **November 2023**

FIGURE 3C

Filename: N:\CA\Mississauga\Projects\662\12581540\Digital_Design\ACAD\Figures\LTR005\12581540-GHD-00-00-LTR-EN-D107_WA-005.DWG
Plot Date: 07 November 2023 9:51 AM

North Wall (02)	07/24/2023
	0.8-1.5
PHC (F4G)	10000
PHC F2 (C10-C16)	31

East Wall (03)	07/24/2023
	0.0-0.8
PHC (F4G)	6700
PHC F2 (C10-C16)	47

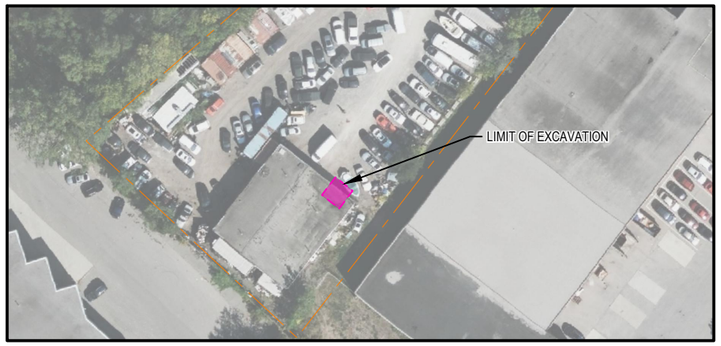
Floor (09)	07/24/2023
	1.2
PHC (F4G)	740
PHC F2 (C10-C16)	360

Floor (10)	07/24/2023
	1.5
PHC (F4G)	4900
PHC F2 (C10-C16)	640

West Wall (07)	07/24/2023
	0.0-0.8
PHC (F4G)	1200/1900
PHC F2 (C10-C16)	2000/1300

South Wall (06)	07/24/2023
	0.8-1.5
PHC (F4G)	7000
PHC F2 (C10-C16)	34

KEY MAP



CHEMICAL NAME	UNITS	2011 MOE TABLE 3 STANDARDS
PHC F2 (C10-C16)	ug/g	250
PHC (F4G)	ug/g	6600

LEGEND

- SCREENING LOCATION (GHD, JULY 2023)
- SOIL SAMPLE LOCATION (GHD, JULY 2023)
- SAMPLE CONCENTRATION ABOVE MOE TABLE 3 STANDARDS
- SAMPLE CONCENTRATION BELOW MOE TABLE 3 STANDARDS
- (1.5) DEPTH (mBGS)
- [2.6] PID READING (ppm)
- FORMER OIL/WATER SEPERATOR EXCAVATION
- CONCENTRATION ABOVE STANDARD

South Wall (06)	07/24/2023	← SAMPLE DATE
	0.8-1.5	← SAMPLE DEPTH
PHC (F4G)	7000	
PHC F2 (C10-C16)	34	← CONCENTRATION

↑ SAMPLE ID

↓ PARAMETER

NOTES:
ONTARIO MINISTRY OF THE ENVIRONMENT (MOE), "SOIL, GROUND WATER AND SEDIMENT STANDARDS FOR USE UNDER PART XV.1 OF THE ENVIRONMENTAL PROTECTION ACT," APRIL 15, 2011. TABLE 3: FULL DEPTH GENERIC SITE CONDITION STANDARDS IN A NON-POTABLE GROUNDWATER CONDITION FOR INDUSTRIAL/COMMERCIAL/COMMUNITY PROPERTY USE AND MEDIUM TO FINE GRAINED TEXTURED SOILS.

0 0.5 1 1.5m

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Coordinate System:
UTM with NAD83 datum, Zone 17, Meter

Plan North

N

GHD

THE CORPORATION OF THE CITY OF MISSISSAUGA
2524 CAWTHRA ROAD, MISSISSAUGA, ONTARIO
SUPPLEMENTARY ENVIRONMENTAL INVESTIGATION

SUMMARY OF HISTORICAL SOIL ANALYTICAL RESULTS (EXCAVATION) - PHCs

Project No. **12581540**
Date **November 2023**

FIGURE 3D

Filename: N:\CA\Mississauga\Projects\662\12581540\Digital_Design\ACAD\Figures\LTR005\12581540-GHD-00-00-LTR-EN-D108_WA-005.DWG
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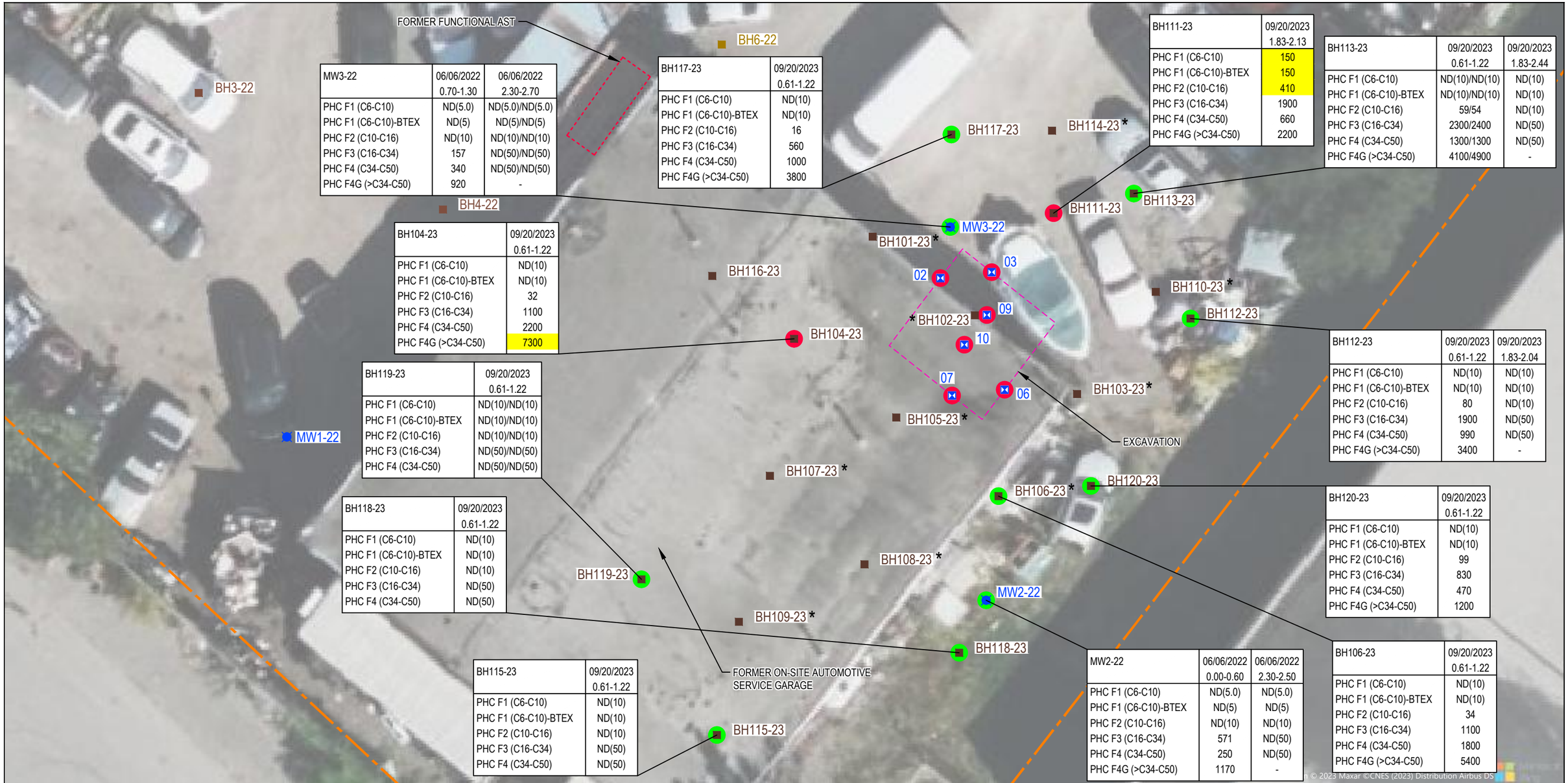

MW3-22	06/06/2022 0.70-1.30	06/06/2022 2.30-2.70
PHC F1 (C6-C10)	ND(5.0)	ND(5.0)/ND(5.0)
PHC F1 (C6-C10)-BTEX	ND(5)	ND(5)/ND(5)
PHC F2 (C10-C16)	ND(10)	ND(10)/ND(10)
PHC F3 (C16-C34)	157	ND(50)/ND(50)
PHC F4 (C34-C50)	340	ND(50)/ND(50)
PHC F4G (>C34-C50)	920	-

BH117-23	09/20/2023 0.61-1.22
PHC F1 (C6-C10)	ND(10)
PHC F1 (C6-C10)-BTEX	ND(10)
PHC F2 (C10-C16)	16
PHC F3 (C16-C34)	560
PHC F4 (C34-C50)	1000
PHC F4G (>C34-C50)	3800

BH111-23	09/20/2023 1.83-2.13
PHC F1 (C6-C10)	150
PHC F1 (C6-C10)-BTEX	150
PHC F2 (C10-C16)	410
PHC F3 (C16-C34)	1900
PHC F4 (C34-C50)	660
PHC F4G (>C34-C50)	2200

BH113-23	09/20/2023 0.61-1.22	09/20/2023 1.83-2.44
PHC F1 (C6-C10)	ND(10)/ND(10)	ND(10)
PHC F1 (C6-C10)-BTEX	ND(10)/ND(10)	ND(10)
PHC F2 (C10-C16)	59/54	ND(10)
PHC F3 (C16-C34)	2300/2400	ND(50)
PHC F4 (C34-C50)	1300/1300	ND(50)
PHC F4G (>C34-C50)	4100/4900	-

BH104-23	09/20/2023 0.61-1.22
PHC F1 (C6-C10)	ND(10)
PHC F1 (C6-C10)-BTEX	ND(10)
PHC F2 (C10-C16)	32
PHC F3 (C16-C34)	1100
PHC F4 (C34-C50)	2200
PHC F4G (>C34-C50)	7300

BH112-23	09/20/2023 0.61-1.22	09/20/2023 1.83-2.04
PHC F1 (C6-C10)	ND(10)	ND(10)
PHC F1 (C6-C10)-BTEX	ND(10)	ND(10)
PHC F2 (C10-C16)	80	ND(10)
PHC F3 (C16-C34)	1900	ND(50)
PHC F4 (C34-C50)	990	ND(50)
PHC F4G (>C34-C50)	3400	-

BH119-23	09/20/2023 0.61-1.22
PHC F1 (C6-C10)	ND(10)/ND(10)
PHC F1 (C6-C10)-BTEX	ND(10)/ND(10)
PHC F2 (C10-C16)	ND(10)/ND(10)
PHC F3 (C16-C34)	ND(50)/ND(50)
PHC F4 (C34-C50)	ND(50)/ND(50)

BH118-23	09/20/2023 0.61-1.22
PHC F1 (C6-C10)	ND(10)
PHC F1 (C6-C10)-BTEX	ND(10)
PHC F2 (C10-C16)	ND(10)
PHC F3 (C16-C34)	ND(50)
PHC F4 (C34-C50)	ND(50)

BH120-23	09/20/2023 0.61-1.22
PHC F1 (C6-C10)	ND(10)
PHC F1 (C6-C10)-BTEX	ND(10)
PHC F2 (C10-C16)	99
PHC F3 (C16-C34)	830
PHC F4 (C34-C50)	470
PHC F4G (>C34-C50)	1200

BH115-23	09/20/2023 0.61-1.22
PHC F1 (C6-C10)	ND(10)
PHC F1 (C6-C10)-BTEX	ND(10)
PHC F2 (C10-C16)	ND(10)
PHC F3 (C16-C34)	ND(50)
PHC F4 (C34-C50)	ND(50)

MW2-22	06/06/2022 0.00-0.60	06/06/2022 2.30-2.50
PHC F1 (C6-C10)	ND(5.0)	ND(5.0)
PHC F1 (C6-C10)-BTEX	ND(5)	ND(5)
PHC F2 (C10-C16)	ND(10)	ND(10)
PHC F3 (C16-C34)	571	ND(50)
PHC F4 (C34-C50)	250	ND(50)
PHC F4G (>C34-C50)	1170	-

BH106-23	09/20/2023 0.61-1.22
PHC F1 (C6-C10)	ND(10)
PHC F1 (C6-C10)-BTEX	ND(10)
PHC F2 (C10-C16)	34
PHC F3 (C16-C34)	1100
PHC F4 (C34-C50)	1800
PHC F4G (>C34-C50)	5400

LEGEND

- PROPERTY BOUNDARY
- ABOVE GROUND STORAGE TANK
- BOREHOLE LOCATION [UP TO 2.5 mBGS (GHD, JUNE 2022)]
- BOREHOLE LOCATION [UP TO 6.0 mBGS (GHD, JUNE 2022)]
- DELINEATION BOREHOLE LOCATION [UP TO 2.7 mBGS (GHD, SEPTEMBER 2023)]
- DECOMMISIONED MONITORING WELL LOCATION (GHD 2022)
- SOIL SAMPLE LOCATION (GHD, JULY 2023)
- SAMPLE CONCENTRATION ABOVE MOE TABLE 3 AND TABLE 7 STANDARDS
- SAMPLE CONCENTRATION BELOW MOE TABLE 3 AND TABLE 7 STANDARDS
- FORMER OIL/WATER SEPERATOR EXCAVATION
- * FIELD EVIDENCE OF IMPACTED OBSERVED AT SCREENING BOREHOLE LOCATION

CONCENTRATION ABOVE STANDARD

SAMPLE ID: BH115-23	09/20/2023 (SAMPLE DATE)
	0.61-1.22 (SAMPLE DEPTH)
PHC F1 (C6-C10)	ND(10)
PHC F1 (C6-C10)-BTEX	ND(10) (CONCENTRATION)
PHC F2 (C10-C16)	ND(10)
PHC F3 (C16-C34)	ND(50)
PHC F4 (C34-C50)	ND(50)
PARAMETER	

PARAMETER	UNITS	2011 MOE STANDARDS(1)	
		TABLE 3(2)	TABLE 7(3)
PHC F1 (C6-C10)-BTEX	ug/g	65	65
PHC F2 (C10-C-16)	ug/g	250	250
PHC F3 (C16-C-34)	ug/g	2500	2500
PHC F4 (C34-C-60)	ug/g	6600	6600
PHC F4g (>C34-C-50)	ug/g	6600	6600

NOTES:
1) ONTARIO MINISTRY OF THE ENVIRONMENT (MOE), "SOIL, GROUND WATER AND SEDIMENT STANDARDS FOR USE UNDER PART XV.1 OF THE ENVIRONMENTAL PROTECTION ACT," APRIL 15, 2011.
2) TABLE 3: FULL DEPTH GENERIC SITE CONDITION STANDARDS IN A NON-POTABLE GROUNDWATER CONDITION FOR INDUSTRIAL/COMMERCIAL/COMMUNITY PROPERTY USE AND MEDIUM TO FINE GRAINED TEXTURED SOILS.
3) TABLE 7 GENERIC SITE CONDITION STANDARDS FOR SHALLOW SOILS IN A NON-POTABLE GROUND WATER CONDITION FOR INDUSTRICAL/COMMERCIAL/COMMUNITY PROPERTY USE AND MEDIUM TO FINE TEXTURED SOILS.

0 1.5 3 4.5m
1:150
Coordinate System:
UTM with NAD83 datum, Zone 17, Meter

Plan North

GHD

THE CORPORATION OF THE CITY OF MISSISSAUGA
2524 CAWTHRA ROAD, MISSISSAUGA, ONTARIO
SUPPLEMENTARY ENVIRONMENTAL INVESTIGATION

SUMMARY SOIL RESULTS

Project No. **12581540**
Date **November 2023**

FIGURE 4

DATA SOURCE: @2023 PLEX-EARTH - IMAGE @2023 GOOGLE MAPS

Filename: N:\CA\Mississauga\Projects\662\12581540\Digital_Design\ACAD\Figures\LTR005\12581540-GHD-00-00-LTR-EN-D104_WA-005.DWG
Plot Date: 07 November 2023 9:51 AM

Tables

Table 1

Sample Identification Key and Analytical Parameter List
Supplementary Environmental Investigation
2425 Cawthra Road, Mississauga, Ontario
The Corporation of the City of Mississauga

Sample Location	Sample Identification[1]	Sample Date	Sample Depth (mBGS)	PID (ppm)	Laboratory Certificate of Analysis No.	PHCs/BTEX	VOCs
Soil							
BH104-23	S-12581540-092023-CC-BH104-2-4	09/20/2023	0.61-1.22	0.0	C3T2887	X	
BH106-23	S-12581540-092023-CC-BH106-2-4	9/20/2023	0.61-1.22	0.0	C3T2887	X	
BH111-23	S-12581540-092023-CC-BH111-6-7	9/20/2023	1.83-2.13	222.0	C3T2887	X	X
BH112-23	S-12581540-092023-CC-BH112-2-4	9/20/2023	0.61-1.22	0.2	C3T2887	X	X
BH112-23	S-12581540-092023-CC-BH112-6-7'6"	9/20/2023	1.83-2.04	0.1	C3T2887	X	
BH113-23	S-12581540-092023-CC-BH113-2-4	9/20/2023	0.61-1.22	24.7	C3T2887	X	X
BH113-23 (Field Duplicate)	S-12581540-092023-CC-DUP1	9/20/2023	0.61-1.22	24.7	C3T2887	X	X
BH113-23	S-12581540-092023-CC-BH113-6-8	9/20/2023	1.83-2.44	0.0	C3T2887	X	
BH115-23	S-12581540-092023-CC-BH115-2-4	9/20/2023	0.61-1.22	0.0	C3T2887	X	
BH115-23	S-12581540-092023-CC-BH115-2-4	9/20/2023	0.61-1.22	0.0	C3T2887	X	
BH117-23	S-12581540-092023-CC-BH117-2-4	9/20/2023	0.61-1.22	0.0	C3T2887	X	
BH118-23	S-12581540-092023-CC-BH118-2-4	9/20/2023	0.61-1.22	0.0	C3T2887	X	
BH119-23	S-12581540-092023-CC-BH119-2-4	9/20/2023	0.61-1.22	0.0	C3T2887	X	
BH119-23 (Field Duplicate)	S-12581540-092023-CC-DUP2	9/20/2023	0.61-1.22	0.0	C3T2887	X	
BH120-23	S-12581540-092023-CC-BH120-2-4	9/20/2023	0.61-1.22	7.2	C3T2887	X	
Trip Blank	TRIP BLANK	9/20/2023	-	-	C3T2887	X[1]	

Notes:

[1] Analyzed for F1/VOCs only

mBGS metres Below Ground Surface

PHCs Petroleum Hydrocarbons

BTEX Benzene, toluene, ethylbenzene and xylenes

VOCs Volatile Organic Compounds

PID Photoionization Detector

ppm parts per million

Table 2

Summary of Soil Analytical Results
Supplementary Environmental Investigation
2524 Cawthra Road, Mississauga, Ontario
The Corporation of the City of Mississauga

			Sample Location:	**BH104-23**	**BH106-23**	**BH111-23**	**BH112-23**	**BH112**
			Sample Identification:	**S-12581540-092023-CC-BH104-2-4**	**S-12581540-092023-CC-BH106-2-4**	**S-12581540-092023-CC-BH111-6-7**	**S-12581540-092023-CC-BH112-2-4**	**S-12581540-092023-CC-BH112-6-7'6"**
			Sample Date:	**09/20/2023**	**09/20/2023**	**09/20/2023**	**09/20/2023**	**09/20/2023**
			Sample Depth (mBGS):	**0.61-1.22**	**0.61-1.22**	**1.83-2.13**	**0.61-1.22**	**1.83-2.04**
			Lab Certificate of Analysis:	**C3T2887**	**C3T2887**	**C3T2887**	**C3T2887**	**C3T2887**
Parameters	**Units**	**2011 MOE Standards**						
		Table 3 ICC[1]	**Table 7 ICC[2]**					
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	ug/g	0.11	0.11	-	-	ND(0.040)	ND(0.040)	-
1,1,1-Trichloroethane	ug/g	12	12	-	-	ND(0.040)	ND(0.040)	-
1,1,2,2-Tetrachloroethane	ug/g	0.094	0.094	-	-	ND(0.040)	ND(0.040)	-
1,1,2-Trichloroethane	ug/g	0.11	0.11	-	-	ND(0.040)	ND(0.040)	-
1,1-Dichloroethane	ug/g	21	21	-	-	ND(0.040)	ND(0.040)	-
1,1-Dichloroethene	ug/g	0.48	0.48	-	-	ND(0.040)	ND(0.040)	-
1,2-Dibromoethane (Ethylene dibromide)	ug/g	0.05	0.05	-	-	ND(0.040)	ND(0.040)	-
1,2-Dichlorobenzene	ug/g	8.5	8.5	-	-	ND(0.040)	ND(0.040)	-
1,2-Dichloroethane	ug/g	0.05	0.05	-	-	ND(0.049)	ND(0.049)	-
1,2-Dichloropropane	ug/g	0.68	0.68	-	-	ND(0.040)	ND(0.040)	-
1,3-Dichlorobenzene	ug/g	12	12	-	-	ND(0.040)	ND(0.040)	-
1,4-Dichlorobenzene	ug/g	0.84	0.84	-	-	ND(0.040)	ND(0.040)	-
2-Butanone (Methyl ethyl ketone) (MEK)	ug/g	88	88	-	-	ND(0.40)	ND(0.40)	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/g	210	210	-	-	ND(0.40)	ND(0.40)	-
Acetone	ug/g	28	28	-	-	ND(0.49)	ND(0.49)	-
Benzene	ug/g	0.4	0.4	ND(0.020)	ND(0.020)	0.013	0.030	ND(0.020)
Bromodichloromethane	ug/g	18	18	-	-	ND(0.040)	ND(0.040)	-
Bromoform	ug/g	1.7	1.7	-	-	ND(0.040)	ND(0.040)	-
Bromomethane (Methyl bromide)	ug/g	0.05	0.05	-	-	ND(0.040)	ND(0.040)	-
Carbon tetrachloride	ug/g	1.5	1.5	-	-	ND(0.040)	ND(0.040)	-
Chlorobenzene	ug/g	2.7	2.7	-	-	ND(0.040)	ND(0.040)	-
Chloroform (Trichloromethane)	ug/g	0.18	0.18	-	-	ND(0.040)	ND(0.040)	-
cis-1,2-Dichloroethene	ug/g	37	37	-	-	ND(0.040)	ND(0.040)	-
cis-1,3-Dichloropropene	ug/g	NV	NV	-	-	ND(0.030)	ND(0.030)	-
cis-1,3-Dichloropropene/trans-1,3-Dichloropropene total	ug/g	0.21	0.21	-	-	ND(0.050)	ND(0.050)	-
Dibromochloromethane	ug/g	13	13	-	-	ND(0.040)	ND(0.040)	-
Dichlorodifluoromethane (CFC-12)	ug/g	25	25	-	-	ND(0.040)	ND(0.040)	-
Ethylbenzene	ug/g	19	19	ND(0.020)	ND(0.020)	0.16	0.026	ND(0.020)
Hexane	ug/g	88	88	-	-	1.1	ND(0.040)	-
m&p-Xylenes	ug/g	NV	NV	ND(0.040)	ND(0.040)	0.17	0.10	ND(0.040)
Methyl tert butyl ether (MTBE)	ug/g	3.2	3.2	-	-	ND(0.040)	ND(0.040)	-
Methylene chloride	ug/g	2	2	-	-	ND(0.049)	ND(0.049)	-
o-Xylene	ug/g	NV	NV	ND(0.020)	ND(0.020)	0.043	0.054	ND(0.020)
Styrene	ug/g	43	43	-	-	ND(0.040)	ND(0.040)	-
Tetrachloroethene	ug/g	21	21	-	-	ND(0.040)	ND(0.040)	-
Toluene	ug/g	78	78	ND(0.020)	ND(0.020)	0.031	0.088	ND(0.020)
trans-1,2-Dichloroethene	ug/g	9.3	9.3	-	-	ND(0.040)	ND(0.040)	-
trans-1,3-Dichloropropene	ug/g	NV	NV	-	-	ND(0.040)	ND(0.040)	-
Trichloroethene	ug/g	0.61	0.61	-	-	ND(0.010)	ND(0.010)	-
Trichlorofluoromethane (CFC-11)	ug/g	5.8	5.8	-	-	ND(0.040)	ND(0.040)	-
Vinyl chloride	ug/g	0.25	0.25	-	-	ND(0.019)	ND(0.019)	-
Xylenes (total)	ug/g	30	30	ND(0.040)	ND(0.040)	0.21	0.15	ND(0.040)

Table 2

Summary of Soil Analytical Results
Supplementary Environmental Investigation
2524 Cawthra Road, Mississauga, Ontario
The Corporation of the City of Mississauga

			Sample Location:	**BH104-23**	**BH106-23**	**BH111-23**	**BH112-23**	**BH112**
			Sample Identification:	**S-12581540-092023-CC-BH104-2-4**	**S-12581540-092023-CC-BH106-2-4**	**S-12581540-092023-CC-BH111-6-7**	**S-12581540-092023-CC-BH112-2-4**	**S-12581540-092023-CC-BH112-6-7'6"**
			Sample Date:	**09/20/2023**	**09/20/2023**	**09/20/2023**	**09/20/2023**	**09/20/2023**
			Sample Depth (mBGS):	**0.61-1.22**	**0.61-1.22**	**1.83-2.13**	**0.61-1.22**	**1.83-2.04**
			Lab Certificate of Analysis:	**C3T2887**	**C3T2887**	**C3T2887**	**C3T2887**	**C3T2887**
Parameters	**Units**	**2011 MOE Standards**						
		Table 3 ICC[1]	**Table 7 ICC[2]**					
Petroleum Hydrocarbons (PHCs)								
Petroleum hydrocarbons F1 (C6-C10)	ug/g	65	65	ND(10)	ND(10)	**150**	ND(10)	ND(10)
Petroleum hydrocarbons F1 (C6-C10) - less BTEX	ug/g	65	65	ND(10)	ND(10)	**150**	ND(10)	ND(10)
Petroleum hydrocarbons F2 (C10-C16)	ug/g	250	250	32	34	**410**	80	ND(10)
Petroleum hydrocarbons F3 (C16-C34)	ug/g	2500	2500	1100	1100	1900	1900	ND(50)
Petroleum hydrocarbons F4 (C34-C50)	ug/g	6600	6600	2200	1800	660	990	ND(50)
Gravimetric heavy hydrocarbons (F4G)	ug/g	6600	6600	**7300**	5400	2200	3400	-
General Chemistry								
Moisture	%	NV	NV	8.6	14	20	14	16

Notes:

(1) Ontario Ministry of Environment (MOE) Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition for Industrial/Commercial/ Community Property Use with medium to fine textured soils, April 2011

(2) MOE, Table 7: Generic Site Condition Standards for Shallow Soils in a Non-Potable Ground Water Condition for Industrial/Commercial/ Community Property Use with medium to fine textured soils, April 2011

mBGS	metres Below Ground Surface
ug/g	micrograms per gram
%	percent
NV	No value
ND(0.01)	Not detected at the associated reporting limit indicated in brackets
-	Not analyzed
RED	Concentration above MOE Table 3 Standards
	Concentration above MOE Table 7 Standards

Table 2

Summary of Soil Analytical Results
Supplementary Environmental Investigation
2524 Cawthra Road, Mississauga, Ontario
The Corporation of the City of Mississauga

			Sample Location:	**BH113**	**BH113**	**BH113**	**BH115**	**BH117**
			Sample Identification:	**S-12581540-092023-CC-BH113-2-4**	**S-12581540-092023-CC-DUP1**	**S-12581540-092023-CC-BH113-6-8**	**S-12581540-092023-CC-BH115-2-4**	**S-12581540-092023-CC-BH117-2-4**
			Sample Date:	**09/20/2023**	**09/20/2023**	**09/20/2023**	**09/20/2023**	**09/20/2023**
			Sample Depth (mBGS):	**0.61-1.22**	**0.61-1.22**	**1.83-2.44**	**0.61-1.22**	**0.61-1.22**
			Lab Certificate of Analysis:	**C3T2887**	**C3T2887**	**C3T2887**	**C3T2887**	**C3T2887**
Parameters	**Units**	**2011 MOE Standards**			***Field Duplicate***			
		Table 3 ICC[1]	**Table 7 ICC[2]**					
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	ug/g	0.11	0.11	ND(0.040)	ND(0.040)	-	-	-
1,1,1-Trichloroethane	ug/g	12	12	ND(0.040)	ND(0.040)	-	-	-
1,1,2,2-Tetrachloroethane	ug/g	0.094	0.094	ND(0.040)	ND(0.040)	-	-	-
1,1,2-Trichloroethane	ug/g	0.11	0.11	ND(0.040)	ND(0.040)	-	-	-
1,1-Dichloroethane	ug/g	21	21	ND(0.040)	ND(0.040)	-	-	-
1,1-Dichloroethene	ug/g	0.48	0.48	ND(0.040)	ND(0.040)	-	-	-
1,2-Dibromoethane (Ethylene dibromide)	ug/g	0.05	0.05	ND(0.040)	ND(0.040)	-	-	-
1,2-Dichlorobenzene	ug/g	8.5	8.5	ND(0.040)	ND(0.040)	-	-	-
1,2-Dichloroethane	ug/g	0.05	0.05	ND(0.049)	ND(0.049)	-	-	-
1,2-Dichloropropane	ug/g	0.68	0.68	ND(0.040)	ND(0.040)	-	-	-
1,3-Dichlorobenzene	ug/g	12	12	ND(0.040)	ND(0.040)	-	-	-
1,4-Dichlorobenzene	ug/g	0.84	0.84	ND(0.040)	ND(0.040)	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	ug/g	88	88	ND(0.40)	ND(0.40)	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/g	210	210	ND(0.40)	ND(0.40)	-	-	-
Acetone	ug/g	28	28	ND(0.49)	ND(0.49)	-	-	-
Benzene	ug/g	0.4	0.4	0.012	0.024	ND(0.020)	ND(0.020)	ND(0.020)
Bromodichloromethane	ug/g	18	18	ND(0.040)	ND(0.040)	-	-	-
Bromoform	ug/g	1.7	1.7	ND(0.040)	ND(0.040)	-	-	-
Bromomethane (Methyl bromide)	ug/g	0.05	0.05	ND(0.040)	ND(0.040)	-	-	-
Carbon tetrachloride	ug/g	1.5	1.5	ND(0.040)	ND(0.040)	-	-	-
Chlorobenzene	ug/g	2.7	2.7	ND(0.040)	ND(0.040)	-	-	-
Chloroform (Trichloromethane)	ug/g	0.18	0.18	ND(0.040)	ND(0.040)	-	-	-
cis-1,2-Dichloroethene	ug/g	37	37	ND(0.040)	ND(0.040)	-	-	-
cis-1,3-Dichloropropene	ug/g	NV	NV	ND(0.030)	ND(0.030)	-	-	-
cis-1,3-Dichloropropene/trans-1,3-Dichloropropene total	ug/g	0.21	0.21	ND(0.050)	ND(0.050)	-	-	-
Dibromochloromethane	ug/g	13	13	ND(0.040)	ND(0.040)	-	-	-
Dichlorodifluoromethane (CFC-12)	ug/g	25	25	ND(0.040)	ND(0.040)	-	-	-
Ethylbenzene	ug/g	19	19	0.070	0.14	ND(0.020)	ND(0.020)	ND(0.020)
Hexane	ug/g	88	88	0.70	1.1	-	-	-
m&p-Xylenes	ug/g	NV	NV	0.28	0.58	ND(0.040)	ND(0.040)	ND(0.040)
Methyl tert butyl ether (MTBE)	ug/g	3.2	3.2	ND(0.040)	ND(0.040)	-	-	-
Methylene chloride	ug/g	2	2	ND(0.049)	ND(0.049)	-	-	-
o-Xylene	ug/g	NV	NV	0.14	0.27	ND(0.020)	ND(0.020)	ND(0.020)
Styrene	ug/g	43	43	ND(0.040)	ND(0.040)	-	-	-
Tetrachloroethene	ug/g	21	21	ND(0.040)	ND(0.040)	-	-	-
Toluene	ug/g	78	78	0.049	0.089	ND(0.020)	ND(0.020)	ND(0.020)
trans-1,2-Dichloroethene	ug/g	9.3	9.3	ND(0.040)	ND(0.040)	-	-	-
trans-1,3-Dichloropropene	ug/g	NV	NV	ND(0.040)	ND(0.040)	-	-	-
Trichloroethene	ug/g	0.61	0.61	ND(0.010)	ND(0.010)	-	-	-
Trichlorofluoromethane (CFC-11)	ug/g	5.8	5.8	ND(0.040)	ND(0.040)	-	-	-
Vinyl chloride	ug/g	0.25	0.25	ND(0.019)	ND(0.019)	-	-	-
Xylenes (total)	ug/g	30	30	0.42	0.85	ND(0.040)	ND(0.040)	ND(0.040)

Table 2

Summary of Soil Analytical Results
Supplementary Environmental Investigation
2524 Cawthra Road, Mississauga, Ontario
The Corporation of the City of Mississauga

			Sample Location:	**BH113**	**BH113**	**BH113**	**BH115**	**BH117**
			Sample Identification:	**S-12581540-092023-CC-BH113-2-4**	**S-12581540-092023-CC-DUP1**	**S-12581540-092023-CC-BH113-6-8**	**S-12581540-092023-CC-BH115-2-4**	**S-12581540-092023-CC-BH117-2-4**
			Sample Date:	**09/20/2023**	**09/20/2023**	**09/20/2023**	**09/20/2023**	**09/20/2023**
			Sample Depth (mBGS):	**0.61-1.22**	**0.61-1.22**	**1.83-2.44**	**0.61-1.22**	**0.61-1.22**
			Lab Certificate of Analysis:	**C3T2887**	**C3T2887**	**C3T2887**	**C3T2887**	**C3T2887**
Parameters	**Units**	**2011 MOE Standards**			***Field Duplicate***			
		Table 3 ICC[1]	**Table 7 ICC**[2]					
Petroleum Hydrocarbons (PHCs)								
Petroleum hydrocarbons F1 (C6-C10)	ug/g	65	65	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
Petroleum hydrocarbons F1 (C6-C10) - less BTEX	ug/g	65	65	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
Petroleum hydrocarbons F2 (C10-C16)	ug/g	250	250	59	54	ND(10)	ND(10)	16
Petroleum hydrocarbons F3 (C16-C34)	ug/g	2500	2500	2300	2400	ND(50)	ND(50)	560
Petroleum hydrocarbons F4 (C34-C50)	ug/g	6600	6600	1300	1300	ND(50)	ND(50)	1000
Gravimetric heavy hydrocarbons (F4G)	ug/g	6600	6600	4100	4900	-	-	3800
General Chemistry								
Moisture	%	NV	NV	20	23	13	19	6.9

Notes:

(1) Ontario Ministry of Environment (MOE) Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition for Industrial/Commercial/ Community Property Use with medium to fine textured soils, April 2011

(2) MOE, Table 7: Generic Site Condition Standards for Shallow Soils in a Non-Potable Ground Water Condition for Industrial/Commercial/ Community Property Use with medium to fine textured soils, April 2011

mBGS	metres Below Ground Surface
ug/g	micrograms per gram
%	percent
NV	No value
ND(0.01)	Not detected at the associated reporting limit indicated in brackets
-	Not analyzed
RED	Concentration above MOE Table 3 Standards
	Concentration above MOE Table 7 Standards

Table 2

Summary of Soil Analytical Results
Supplementary Environmental Investigation
2524 Cawthra Road, Mississauga, Ontario
The Corporation of the City of Mississauga

			Sample Location:	**BH118**	**BH119**	**BH119**	**BH120**	**Trip Blank**
			Sample Identification:	**S-12581540-092023-CC-BH118-2-4**	**S-12581540-092023-CC-BH119-2-4**	**S-12581540-092023-CC-DUP2**	**S-12581540-092023-CC-BH120-2-4**	**TRIP BLANK**
			Sample Date:	**09/20/2023**	**09/20/2023**	**09/20/2023**	**09/20/2023**	**09/20/2023**
			Sample Depth (mBGS):	**0.61-1.22**	**0.61-1.22**	**0.61-1.22**	**0.61-1.22**	**-**
			Lab Certificate of Analysis:	**C3T2887**	**C3T2887**	**C3T2887**	**C3T2887**	**C3T2887**
Parameters	**Units**	**2011 MOE Standards**				***Field Duplicate***		
		Table 3 ICC[1]	**Table 7 ICC[2]**					
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	ug/g	0.11	0.11	-	-	-	-	ND(0.040)
1,1,1-Trichloroethane	ug/g	12	12	-	-	-	-	ND(0.040)
1,1,2,2-Tetrachloroethane	ug/g	0.094	0.094	-	-	-	-	ND(0.040)
1,1,2-Trichloroethane	ug/g	0.11	0.11	-	-	-	-	ND(0.040)
1,1-Dichloroethane	ug/g	21	21	-	-	-	-	ND(0.040)
1,1-Dichloroethene	ug/g	0.48	0.48	-	-	-	-	ND(0.040)
1,2-Dibromoethane (Ethylene dibromide)	ug/g	0.05	0.05	-	-	-	-	ND(0.040)
1,2-Dichlorobenzene	ug/g	8.5	8.5	-	-	-	-	ND(0.040)
1,2-Dichloroethane	ug/g	0.05	0.05	-	-	-	-	ND(0.049)
1,2-Dichloropropane	ug/g	0.68	0.68	-	-	-	-	ND(0.040)
1,3-Dichlorobenzene	ug/g	12	12	-	-	-	-	ND(0.040)
1,4-Dichlorobenzene	ug/g	0.84	0.84	-	-	-	-	ND(0.040)
2-Butanone (Methyl ethyl ketone) (MEK)	ug/g	88	88	-	-	-	-	ND(0.40)
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/g	210	210	-	-	-	-	ND(0.40)
Acetone	ug/g	28	28	-	-	-	-	ND(0.49)
Benzene	ug/g	0.4	0.4	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.0060)
Bromodichloromethane	ug/g	18	18	-	-	-	-	ND(0.040)
Bromoform	ug/g	1.7	1.7	-	-	-	-	ND(0.040)
Bromomethane (Methyl bromide)	ug/g	0.05	0.05	-	-	-	-	ND(0.040)
Carbon tetrachloride	ug/g	1.5	1.5	-	-	-	-	ND(0.040)
Chlorobenzene	ug/g	2.7	2.7	-	-	-	-	ND(0.040)
Chloroform (Trichloromethane)	ug/g	0.18	0.18	-	-	-	-	ND(0.040)
cis-1,2-Dichloroethene	ug/g	37	37	-	-	-	-	ND(0.040)
cis-1,3-Dichloropropene	ug/g	NV	NV	-	-	-	-	ND(0.030)
cis-1,3-Dichloropropene/trans-1,3-Dichloropropene total	ug/g	0.21	0.21	-	-	-	-	ND(0.050)
Dibromochloromethane	ug/g	13	13	-	-	-	-	ND(0.040)
Dichlorodifluoromethane (CFC-12)	ug/g	25	25	-	-	-	-	ND(0.040)
Ethylbenzene	ug/g	19	19	ND(0.020)	ND(0.020)	ND(0.020)	0.022	ND(0.010)
Hexane	ug/g	88	88	-	-	-	-	ND(0.040)
m&p-Xylenes	ug/g	NV	NV	ND(0.040)	ND(0.040)	ND(0.040)	0.35	ND(0.020)
Methyl tert butyl ether (MTBE)	ug/g	3.2	3.2	-	-	-	-	ND(0.040)
Methylene chloride	ug/g	2	2	-	-	-	-	ND(0.049)
o-Xylene	ug/g	NV	NV	ND(0.020)	ND(0.020)	ND(0.020)	0.056	ND(0.020)
Styrene	ug/g	43	43	-	-	-	-	ND(0.040)
Tetrachloroethene	ug/g	21	21	-	-	-	-	ND(0.040)
Toluene	ug/g	78	78	0.023	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
trans-1,2-Dichloroethene	ug/g	9.3	9.3	-	-	-	-	ND(0.040)
trans-1,3-Dichloropropene	ug/g	NV	NV	-	-	-	-	ND(0.040)
Trichloroethene	ug/g	0.61	0.61	-	-	-	-	ND(0.010)
Trichlorofluoromethane (CFC-11)	ug/g	5.8	5.8	-	-	-	-	ND(0.040)
Vinyl chloride	ug/g	0.25	0.25	-	-	-	-	ND(0.019)
Xylenes (total)	ug/g	30	30	ND(0.040)	ND(0.040)	ND(0.040)	0.40	ND(0.020)

Table 2

Summary of Soil Analytical Results
Supplementary Environmental Investigation
2524 Cawthra Road, Mississauga, Ontario
The Corporation of the City of Mississauga

			Sample Location:	**BH118**	**BH119**	**BH119**	**BH120**	**Trip Blank**
			Sample Identification:	**S-12581540-092023-CC-BH118-2-4**	**S-12581540-092023-CC-BH119-2-4**	**S-12581540-092023-CC-DUP2**	**S-12581540-092023-CC-BH120-2-4**	**TRIP BLANK**
			Sample Date:	**09/20/2023**	**09/20/2023**	**09/20/2023**	**09/20/2023**	**09/20/2023**
			Sample Depth (mBGS):	**0.61-1.22**	**0.61-1.22**	**0.61-1.22**	**0.61-1.22**	**-**
			Lab Certificate of Analysis:	**C3T2887**	**C3T2887**	**C3T2887**	**C3T2887**	**C3T2887**
Parameters	**Units**	**2011 MOE Standards**				***Field Duplicate***		
		Table 3 ICC[1]	**Table 7 ICC**[2]					
Petroleum Hydrocarbons (PHCs)								
Petroleum hydrocarbons F1 (C6-C10)	ug/g	65	65	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
Petroleum hydrocarbons F1 (C6-C10) - less BTEX	ug/g	65	65	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
Petroleum hydrocarbons F2 (C10-C16)	ug/g	250	250	ND(10)	ND(10)	ND(10)	99	-
Petroleum hydrocarbons F3 (C16-C34)	ug/g	2500	2500	ND(50)	ND(50)	ND(50)	830	-
Petroleum hydrocarbons F4 (C34-C50)	ug/g	6600	6600	ND(50)	ND(50)	ND(50)	470	-
Gravimetric heavy hydrocarbons (F4G)	ug/g	6600	6600	-	-	-	1200	-
General Chemistry								
Moisture	%	NV	NV	16	15	14	18	-

Notes:

(1) Ontario Ministry of Environment (MOE) Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition for Industrial/Commercial/ Community Property Use with medium to fine textured soils, April 2011

(2) MOE, Table 7: Generic Site Condition Standards for Shallow Soils in a Non-Potable Ground Water Condition for Industrial/Commercial/ Community Property Use with medium to fine textured soils, April 2011

mBGS	metres Below Ground Surface
ug/g	micrograms per gram
%	percent
NV	No value
ND(0.01)	Not detected at the associated reporting limit indicated in brackets
-	Not analyzed
RED	Concentration above MOE Table 3 Standards
	Concentration above MOE Table 7 Standards

Attachments

Attachment A

Stratigraphic and Instrumentation Logs

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Supplementary Environmental Investigation
PROJECT NUMBER: 12581540
CLIENT: City of Mississauga
LOCATION: 2524 Cawthra Road, Mississauga, Ontario

HOLE DESIGNATION: BH101-23
DATE COMPLETED: 20 September 2023
DRILLING METHOD: Direct Push
FIELD PERSONNEL: Chris Cini

DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	Borehole	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' Value	SAMPLE PID (ppm)
0.5	FILL: SAND and GRAVEL, well graded, brown			1				1.6
1.0				2				1.8
1.5			Hole Plug	3				0
	SILTY SAND , medium grained, grey, wet, PHC odour	1.52						
2.0	NATIVE: CL-CLAY, with silt, low plasticity, grey, moist	1.83		4				0.2
2.5	ML-SILT, trace sand, trace gravel, brown, moist	2.13						
	END OF BOREHOLE @ 2.44m BGS	2.44						
3.0								
3.5								
4.0								
4.5								
5.0								
5.5								
6.0								
6.5								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Supplementary Environmental Investigation
PROJECT NUMBER: 12581540
CLIENT: City of Mississauga
LOCATION: 2524 Cawthra Road, Mississauga, Ontario

HOLE DESIGNATION: BH102-23
DATE COMPLETED: 21 September 2023
DRILLING METHOD: Hand Auger
FIELD PERSONNEL: Chris Cini

DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	Borehole	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' Value	SAMPLE PID (ppm)
0.5	Excavated from 0 to 1.2 m bgs		Hole Plug					
1.0								
1.5	FILL: CLAYEY SILT, with gravel, few sand, black, very wet, slight PHC odour could not auger past 1.8 m bgs, Either dense Silt or Rock	1.22		1				7.0
2.0	END OF BOREHOLE @ 1.83m BGS	1.83						
2.5								
3.0								
3.5								
4.0								
4.5								
5.0								
5.5								
6.0								
6.5								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Supplementary Environmental Investigation
PROJECT NUMBER: 12581540
CLIENT: City of Mississauga
LOCATION: 2524 Cawthra Road, Mississauga, Ontario

HOLE DESIGNATION: BH103-23
DATE COMPLETED: 20 September 2023
DRILLING METHOD: Direct Push
FIELD PERSONNEL: Chris Cini

DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	Borehole	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' Value	SAMPLE PID (ppm)
0.5	FILL: SAND and GRAVEL, well graded, grey/brown, moist			1				0
	SANDY SILT, with gravel, grey, moist	0.46						
1.0	SILTY CLAY, trace gravel, trace sand, , low/medium plasticity, grey, moist, PHC odour	0.76	Hole Plug	2				6.0
1.5				3				1.3
2.0	NATIVE: ML-SILT, with sand, few gravel, brown, moist	1.68		4				0
2.5	END OF BOREHOLE @ 2.44m BGS	2.44						
3.0								
3.5								
4.0								
4.5								
5.0								
5.5								
6.0								
6.5								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Supplementary Environmental Investigation
PROJECT NUMBER: 12581540
CLIENT: City of Mississauga
LOCATION: 2524 Cawthra Road, Mississauga, Ontario

HOLE DESIGNATION: BH104-23
DATE COMPLETED: 20 September 2023
DRILLING METHOD: Direct Push
FIELD PERSONNEL: Chris Cini

DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	Borehole	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' Value	SAMPLE PID (ppm)
0.5	FILL: SAND and GRAVEL, well gravel, brown, moist			1				0.0
1.0				2				0.0
1.5	SILT, with sand, with gravel, dark grey, wet	1.22	Hole Plug					
2.0	NATIVE: ML-SILT, trace sand, trace gravel, brown, moist	1.52		3				5.1
2.5				4				0.0
3.0	END OF BOREHOLE @ 2.74m BGS	2.74		5				0.0
3.5								
4.0								
4.5								
5.0								
5.5								
6.0								
6.5								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (2)

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Supplementary Environmental Investigation
PROJECT NUMBER: 12581540
CLIENT: City of Mississauga
LOCATION: 2524 Cawthra Road, Mississauga, Ontario

HOLE DESIGNATION: BH105-23
DATE COMPLETED: 20 September 2023
DRILLING METHOD: Direct Push
FIELD PERSONNEL: Chris Cini

DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	Borehole	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' Value	SAMPLE PID (ppm)
0.5	FILL: SAND and GRAVEL, medium grained, few silt, brown, moist			1				0.9
1.0	wet			2				45
	NATIVE: CL-CLAY, few silt, trace sand, medium plasticity, dark grey, very moist	1.07	Hole Plug					
1.5	ML-SILT, trace sand, trace gravel, brown, moist	1.37		3				0
2.0				4				0
2.5	END OF BOREHOLE @ 2.44m BGS	2.44						
3.0								
3.5								
4.0								
4.5								
5.0								
5.5								
6.0								
6.5								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

File: \\GHDNET\GHD\CA\MISSISSAUGA\PROJECTS\662\12581540\TECH\GINT\LOG DATABASE\12581540 LOGS_ENV.GPJ Library File: GHD_ENVIRO_V08.GLB Report: OVERBURDEN LOG Date: 6/11/23

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Supplementary Environmental Investigation
PROJECT NUMBER: 12581540
CLIENT: City of Mississauga
LOCATION: 2524 Cawthra Road, Mississauga, Ontario

HOLE DESIGNATION: BH106-23
DATE COMPLETED: 20 September 2023
DRILLING METHOD: Direct Push
FIELD PERSONNEL: Chris Cini

DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	Borehole	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' Value	SAMPLE PID (ppm)
0.5	FILL: SNAD and GRAVEL, brown, moist			1				0.0
	SANDY SILT, with gravel, brown, moist	0.61		2				0.0
1.0			Hole Plug					
	CLAY, few sand, grey, wet	1.22						
1.5				3				0.0
	NATIVE: ML-SILT, trace sand, brown, moist	1.68						
2.0				4				0.0
	END OF BOREHOLE @ 2.13m BGS	2.13						
2.5								
3.0								
3.5								
4.0								
4.5								
5.0								
5.5								
6.0								
6.5								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

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STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Supplementary Environmental Investigation
PROJECT NUMBER: 12581540
CLIENT: City of Mississauga
LOCATION: 2524 Cawthra Road, Mississauga, Ontario

HOLE DESIGNATION: BH107-23
DATE COMPLETED: 20 September 2023
DRILLING METHOD: Direct Push
FIELD PERSONNEL: Chris Cini

DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	Borehole	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' Value	SAMPLE PID (ppm)
0.5	FILL: SAND and GRAVEL, well graded, brown, moist	0.15		1				2.2
	SANDY CLAY, medium grained sand, few silt, trace gravel, brown, moist, low plasticity - dark grey, wet, slight PHC odour from 0.46 to 0.91m BGS	0.91		2				2.4
1.0	NATIVE: CL-CLAY, few silt, medium plasticity, dark grey, moist, PHC odour	1.22	Hole Plug					
1.5	- dark grey at 1.22m BGS ML-SILT, trace sand, brown, moist			3				0.0
2.0				4				0.0
2.5	END OF BOREHOLE @ 2.44m BGS	2.44						
3.0								
3.5								
4.0								
4.5								
5.0								
5.5								
6.0								
6.5								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

File: \\GHDNET\GHD\CA\MISSISSAUGA\PROJECTS\662\12581540\TECH\GINT\LOG DATABASE\12581540 LOGS_ENV.GPJ Library File: GHD_ENVIRO_V08.GLB Report: OVERBURDEN LOG Date: 6/11/23

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Supplementary Environmental Investigation
PROJECT NUMBER: 12581540
CLIENT: City of Mississauga
LOCATION: 2524 Cawthra Road, Mississauga, Ontario

HOLE DESIGNATION: BH108-23
DATE COMPLETED: 20 September 2023
DRILLING METHOD: Direct Push
FIELD PERSONNEL: Chris Cini

DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	Borehole	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' Value	SAMPLE PID (ppm)
0.5	FILL: SAND and GRAVEL, well graded, brown, moist - medium grained sand, trace silt, grey, wet at 0.30m BGS			1				1.6
1.0	CLAY, with silt, trace sand, medium plasticity, grey, very moist - wood debris at 1.22m BGS	0.91 1.22	Hole Plug	2				3.2
1.5	NATIVE: ML-SANDY SILT, trace gravel, brown, moist, slight PHC odour			3				19.2
2.0				4				6.4
2.5	END OF BOREHOLE @ 2.44m BGS	2.44						
3.0								
3.5								
4.0								
4.5								
5.0								
5.5								
6.0								
6.5								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Supplementary Environmental Investigation
PROJECT NUMBER: 12581540
CLIENT: City of Mississauga
LOCATION: 2524 Cawthra Road, Mississauga, Ontario

HOLE DESIGNATION: BH109-23
DATE COMPLETED: 20 September 2023
DRILLING METHOD: Direct Push
FIELD PERSONNEL: Chris Cini

DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	Borehole	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' Value	SAMPLE PID (ppm)
0.5	FILL: SAND and GRAVEL, well graded, brown, moist - medium grained sand, trace silt, trace gravel, brown, moist at 0.30m BGS			1				0.0
1.0	CLAY, with silt, medium plasticity, dark grey, moist, PHC odour	0.91	Hole Plug	2				0.0
1.5	NATIVE: ML-SILT, trace sand, trace gravel, brow, moist, slight PHC odour - no odour at 1.83m BGS	1.52		3				0.0
2.0				4				0.0
2.5	END OF BOREHOLE @ 2.44m BGS	2.44						
3.0								
3.5								
4.0								
4.5								
5.0								
5.5								
6.0								
6.5								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Supplementary Environmental Investigation
PROJECT NUMBER: 12581540
CLIENT: City of Mississauga
LOCATION: 2524 Cawthra Road, Mississauga, Ontario

HOLE DESIGNATION: BH110-23
DATE COMPLETED: 20 September 2023
DRILLING METHOD: Direct Push
FIELD PERSONNEL: Chris Cini

DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	Borehole	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' Value	SAMPLE PID (ppm)
0.5	FILL: SAND and GRAVEL, well graded, brown, moist			1				0.0
	SANDY SILT, with gravel, brown, moist, wood debris	0.46						
1.0	CLAY, with sand, grey, PHC odour - black from 1.07 to 1.52m BGS	0.76	Hole Plug	2				1.5
1.5	NATIVE: ML-SILT, trace fine sand, brown, moist	1.52		3				7.1
2.0				4				0.0
2.5	END OF BOREHOLE @ 2.44m BGS	2.44						
3.0								
3.5								
4.0								
4.5								
5.0								
5.5								
6.0								
6.5								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

File: \\GHDNET\GHD\CA\MISSISSAUGA\PROJECTS\662\12581540\TECH\GINT\LOG DATABASE\12581540 LOGS_ENV.GPJ Library File: GHD_ENVIRO_V08.GLB Report: OVERBURDEN LOG Date: 6/11/23

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Supplementary Environmental Investigation
PROJECT NUMBER: 12581540
CLIENT: City of Mississauga
LOCATION: 2524 Cawthra Road, Mississauga, Ontario

HOLE DESIGNATION: BH111-23
DATE COMPLETED: 20 September 2023
DRILLING METHOD: Direct Push
FIELD PERSONNEL: Chris Cini

DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	Borehole	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' Value	SAMPLE PID (ppm)
0.5	FILL: SAND and GRAVEL			1				0.0
	CLAY, with silt, few sand, trace gravel, low plasticity, black, moist, PHC odour	0.61						
1.0			Hole Plug	2				22.0
	GRAVEL, with sand, with silt, black, wet, PHC odour	1.22						
1.5	NATIVE: SILTY SAND, medium grained, with gravel, black, wet, strong PHC odour	1.52		3				31.2
2.0				4				222.0
	END OF BOREHOLE @ 2.13m BGS	2.13						
2.5								
3.0								
3.5								
4.0								
4.5								
5.0								
5.5								
6.0								
6.5								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

File: \\GHDNET\GHD\CA\MISSISSAUGA\PROJECTS\662\12581540\TECH\GINT\LOG DATABASE\12581540 LOGS_ENV.GPJ Library File: GHD_ENVIRO_V08.GLB Report: OVERBURDEN LOG Date: 6/11/23

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Supplementary Environmental Investigation
PROJECT NUMBER: 12581540
CLIENT: City of Mississauga
LOCATION: 2524 Cawthra Road, Mississauga, Ontario

HOLE DESIGNATION: BH112-23
DATE COMPLETED: 20 September 2023
DRILLING METHOD: Direct Push
FIELD PERSONNEL: Chris Cini

DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	Borehole	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' Value	SAMPLE PID (ppm)
0.5	FILL: SAND and GRAVEL, brown wood debris			1				0.0
1.0	SILT, well grained sand, with gravel, black, wet, mild PHC odour	0.91	Hole Plug	2				0.2
1.5	NATIVE: CL-CLAY, few silt, low plasticity, grey, moist	1.52		3				4.7
2.0	ML-SILT, trace sand and gravel, brown, moist	1.83		4				0.1
2.5	END OF BOREHOLE @ 2.29m BGS	2.29						
3.0								
3.5								
4.0								
4.5								
5.0								
5.5								
6.0								
6.5								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Supplementary Environmental Investigation
PROJECT NUMBER: 12581540
CLIENT: City of Mississauga
LOCATION: 2524 Cawthra Road, Mississauga, Ontario

HOLE DESIGNATION: BH113-23
DATE COMPLETED: 20 September 2023
DRILLING METHOD: Direct Push
FIELD PERSONNEL: Chris Cini

DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	Borehole	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' Value	SAMPLE PID (ppm)
0.5	FILL: SAND and GRAVEL, brown, debris			1				4.4
1.0	SANDY SILT, with gravel, grey to dark grey, moist, moderated PHC odour - with clay, few sand, strong PHC odour at 1.22m BGS	0.91		2				24.7
1.5	- wood debris, wet at 1.52m BGS	1.52	Hole Plug	3				12.4
2.0	SAND and GRAVEL, brown to grey, slight PHC odour NATIVE: ML-SILT	1.83		4				0.0
2.5				55				0.0
3.0	END OF BOREHOLE @ 2.74m BGS	2.74						
3.5								
4.0								
4.5								
5.0								
5.5								
6.0								
6.5								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

File: \\GHDNET\GHD\CA\MISSISSAUGA\PROJECTS\662\12581540\TECH\GINT\LOG DATABASE\12581540 LOGS_ENV.GPJ Library File: GHD_ENVIRO_V08.GLB Report: OVERBURDEN LOG Date: 6/11/23

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Supplementary Environmental Investigation
PROJECT NUMBER: 12581540
CLIENT: City of Mississauga
LOCATION: 2524 Cawthra Road, Mississauga, Ontario

HOLE DESIGNATION: BH114-23
DATE COMPLETED: 20 September 2023
DRILLING METHOD: Direct Push
FIELD PERSONNEL: Chris Cini

DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	Borehole	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' Value	SAMPLE PID (ppm)
0.5	FILL: SAND and GRAVEL, brown			1				0.0
1.0	- grey, wet, PHC odour at 0.61m BGS			2				20.0
1.5	- Slity, brown, moist, no odour at 1.22m BGS		Hole Plug	3				2.3
2.0	NATIVE: CL-ML-CLAYEY SILT, few sand, few gravel, brown to grey, moist	1.83		4				0.8
2.5	END OF BOREHOLE @ 2.44m BGS	2.44						
3.0								
3.5								
4.0								
4.5								
5.0								
5.5								
6.0								
6.5								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

File: \\GHDNET\GHD\CA\MISSISSAUGA\PROJECTS\662\12581540\TECH\GINT\LOG DATABASE\12581540 LOGS_ENV.GPJ Library File: GHD_ENVIRO_V08.GLB Report: OVERBURDEN LOG Date: 6/11/23

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Supplementary Environmental Investigation
PROJECT NUMBER: 12581540
CLIENT: City of Mississauga
LOCATION: 2524 Cawthra Road, Mississauga, Ontario

HOLE DESIGNATION: BH115-23
DATE COMPLETED: 20 September 2023
DRILLING METHOD: Direct Push
FIELD PERSONNEL: Chris Cini

DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	Borehole	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' Value	SAMPLE PID (ppm)
0.5	FILL: SAND and GRAVEL, brown, moist			1				0.0
1.0	CLAY, with silt, few gravel, moist, low to medium plasticity	0.91	Hole Plug	2				0.0
1.5	NATIVE: ML-SILT, trace sand, brown, moist	1.22		3				0.0
2.0	END OF BOREHOLE @ 1.83m BGS	1.83						
2.5								
3.0								
3.5								
4.0								
4.5								
5.0								
5.5								
6.0								
6.5								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Supplementary Environmental Investigation
PROJECT NUMBER: 12581540
CLIENT: City of Mississauga
LOCATION: 2524 Cawthra Road, Mississauga, Ontario

HOLE DESIGNATION: BH116-23
DATE COMPLETED: 20 September 2023
DRILLING METHOD: Direct Push
FIELD PERSONNEL: Chris Cini

DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	Borehole	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' Value	SAMPLE PID (ppm)
0.5	FILL: SAND and GRAVEL			1				0.0
	SILT, with clay, low plasticity, dark grey, moist	0.61						
1.0				2				3.0
			Hole Plug					
1.5	NATIVE: ML-SILT, trace sand, trace gravel, brown, moist	1.52		3				0.0
2.0				4				0.0
2.5	END OF BOREHOLE @ 2.44m BGS	2.44						
3.0								
3.5								
4.0								
4.5								
5.0								
5.5								
6.0								
6.5								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Supplementary Environmental Investigation
PROJECT NUMBER: 12581540
CLIENT: City of Mississauga
LOCATION: 2524 Cawthra Road, Mississauga, Ontario

HOLE DESIGNATION: BH117-23
DATE COMPLETED: 20 September 2023
DRILLING METHOD: Direct Push
FIELD PERSONNEL: Chris Cini

DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	Borehole	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' Value	SAMPLE PID (ppm)
0.5	FILL: SAND and GRAVEL, silty, brown			1				0.0
1.0	- black at 0.91m BGS			2				0.0
1.5	SANDY CLAY, with silt, low plasticity, black to dark grey, wet	1.22	Hole Plug	3				0.0
2.0	NATIVE: ML-SILT, trace gravel, trace sand, brown, moist	1.83		4				0.0
2.5	END OF BOREHOLE @ 2.44m BGS	2.44						
3.0								
3.5								
4.0								
4.5								
5.0								
5.5								
6.0								
6.5								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Supplementary Environmental Investigation
PROJECT NUMBER: 12581540
CLIENT: City of Mississauga
LOCATION: 2524 Cawthra Road, Mississauga, Ontario

HOLE DESIGNATION: BH118-23
DATE COMPLETED: 20 September 2023
DRILLING METHOD: Direct Push
FIELD PERSONNEL: Chris Cini

DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	Borehole	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' Value	SAMPLE PID (ppm)
0.5	FILL: SILT, with clay, trace sand, trace gravel, brown to grey, moist			1				0.0
1.0				2				0.0
1.5			Hole Plug	3				0.0
2.0	NATIVE: ML-SILT, trace sand, trace gravel, brown, moist	1.52		4				0.0
2.5	END OF BOREHOLE @ 2.44m BGS	2.44						
3.0								
3.5								
4.0								
4.5								
5.0								
5.5								
6.0								
6.5								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

File: \\GHDNET\GHD\CA\MISSISSAUGA\PROJECTS\662\12581540\TECH\GINT\LOG DATABASE\12581540 LOGS_ENV.GPJ Library File: GHD_ENVIRO_V08.GLB Report: OVERBURDEN LOG Date: 6/11/23

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Supplementary Environmental Investigation
PROJECT NUMBER: 12581540
CLIENT: City of Mississauga
LOCATION: 2524 Cawthra Road, Mississauga, Ontario

HOLE DESIGNATION: BH119-23
DATE COMPLETED: 20 September 2023
DRILLING METHOD: Direct Push
FIELD PERSONNEL: Chris Cini

DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	Borehole	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' Value	SAMPLE PID (ppm)
0.5	FILL: SAND and GRAVEL, well graded - medium grained sand, with silt, grey from 0.30 to 0.91m BGS			1				0.0
1.0	CLAYEY SILT, with sand, grey, wet	0.91		2				0.0
	NATIVE: ML-SILT, trace sand, trace gravel, brown, moist	1.22	Hole Plug					
1.5				3				0.0
2.0				4				0.0
2.5	END OF BOREHOLE @ 2.44m BGS	2.44						
3.0								
3.5								
4.0								
4.5								
5.0								
5.5								
6.0								
6.5								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

File: \\GHDNET\GHD\CA\MISSISSAUGA\PROJECTS\662\12581540\TECH\GINT\LOG DATABASE\12581540 LOGS_ENV.GPJ Library File: GHD_ENVIRO_V08.GLB Report: OVERBURDEN LOG Date: 6/11/23

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Supplementary Environmental Investigation
PROJECT NUMBER: 12581540
CLIENT: City of Mississauga
LOCATION: 2524 Cawthra Road, Mississauga, Ontario

HOLE DESIGNATION: BH120-23
DATE COMPLETED: 20 September 2023
DRILLING METHOD: Direct Push
FIELD PERSONNEL: Chris Cini

DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	Borehole	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' Value	SAMPLE PID (ppm)
0.5	FILL: SAND and GRAVEL, well graded, brown, moist			1				0.0
	CLAYEY SILT, few gravel, trace sand, brown, moist	0.61		2				7.2
1.0			Hole Plug					
1.5				3				0.0
2.0	NATIVE: ML-SILT, trace sand, trace gravel, brown, moist	1.83		4				0.
2.5	END OF BOREHOLE @ 2.44m BGS	2.44						
3.0								
3.5								
4.0								
4.5								
5.0								
5.5								
6.0								
6.5								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

File: \\GHDNET\GHD\CA\MISSISSAUGA\PROJECTS\662\12581540\TECH\GINT\LOG DATABASE\12581540 LOGS_ENV.GPJ Library File: GHD_ENVIRO_V08.GLB Report: OVERBURDEN LOG Date: 6/11/23

Attachment B

Laboratory Certificate of Analysis

Your P.O. #: 735-007544-1
Your Project #: 12581540
Your C.O.C. #: 955078-01-01

Attention: 12581540-PO-735-007544-1

GHD Limited
455 Phillip St
Waterloo, ON
CANADA N2L 3X2

Report Date: 2023/09/28
Report #: R7836027
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C3T2887
Received: 2023/09/22, 13:26

Sample Matrix: Soil
Samples Received: 15

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
1,3-Dichloropropene Sum	5	N/A	2023/09/27		EPA 8260C m
Petroleum Hydro. CCME F1 & BTEX in Soil (1)	10	N/A	2023/09/25	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Soil (2)	14	2023/09/25	2023/09/26	CAM SOP-00316	CCME CWS m
F4G (CCME Hydrocarbons Gravimetric)	6	2023/09/27	2023/09/27	CAM SOP-00316	CCME PHC-CWS m
F4G (CCME Hydrocarbons Gravimetric)	2	2023/09/27	2023/09/28	CAM SOP-00316	CCME PHC-CWS m
Moisture	14	N/A	2023/09/25	CAM SOP-00445	Carter 2nd ed 51.2 m
Volatile Organic Compounds and F1 PHCs	5	N/A	2023/09/26	CAM SOP-00230	EPA 8260C m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCCFP, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) No lab extraction date is given for F1BTEX & VOC samples that are field preserved with methanol. Extraction date is the date sampled unless otherwise stated.
(2) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Bureau Veritas conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following “Alberta Environment’s Interpretation of the Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil Validation of Performance-Based Alternative Methods September 2003”.

Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Your P.O. #: 735-007544-1
Your Project #: 12581540
Your C.O.C. #: 955078-01-01

Attention: 12581540-PO-735-007544-1

GHD Limited
455 Phillip St
Waterloo, ON
CANADA N2L 3X2

Report Date: 2023/09/28
Report #: R7836027
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C3T2887

Received: 2023/09/22, 13:26

Documentation is available upon request. Modifications from Reference Method for the Canada-wide Standard for Petroleum Hydrocarbons in Soil-Tier 1 Method: F2/F3/F4 data reported using validated cold solvent extraction instead of Soxhlet extraction.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:
Julie Clement, Technical Account Manager
Email: Julie.CLEMENT@bureauveritas.com
Phone# (613)868-6079

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This report has been generated and distributed using a secure automated process.
Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

GHD Limited
Client Project #: 12581540
Your P.O. #: 735-007544-1
Sampler Initials: CC

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

Bureau Veritas ID		XBK372	XBK374	XBK378		
Sampling Date		2023/09/20 10:00	2023/09/20 10:40	2023/09/20 12:00		
COC Number		955078-01-01	955078-01-01	955078-01-01		
	UNITS	S-12581540-092023-CC-BH104-2-4	S-12581540-092023-CC-BH106-2-4	S-12581540-092023-CC-BH112-6-7'6''	RDL	QC Batch
BTEX & F1 Hydrocarbons						
Benzene	ug/g	<0.020	<0.020	<0.020	0.020	8937827
Toluene	ug/g	<0.020	<0.020	<0.020	0.020	8937827
Ethylbenzene	ug/g	<0.020	<0.020	<0.020	0.020	8937827
o-Xylene	ug/g	<0.020	<0.020	<0.020	0.020	8937827
p+m-Xylene	ug/g	<0.040	<0.040	<0.040	0.040	8937827
Total Xylenes	ug/g	<0.040	<0.040	<0.040	0.040	8937827
F1 (C6-C10)	ug/g	<10	<10	<10	10	8937827
F1 (C6-C10) - BTEX	ug/g	<10	<10	<10	10	8937827
F2-F4 Hydrocarbons						
F2 (C10-C16 Hydrocarbons)	ug/g	32	34	<10	10	8937992
F3 (C16-C34 Hydrocarbons)	ug/g	1100	1100	<50	50	8937992
F4 (C34-C50 Hydrocarbons)	ug/g	2200	1800	<50	50	8937992
Reached Baseline at C50	ug/g	No	No	Yes		8937992
Surrogate Recovery (%)						
1,4-Difluorobenzene	%	92	95	94		8937827
4-Bromofluorobenzene	%	113	115	108		8937827
D10-o-Xylene	%	114	102	113		8937827
D4-1,2-Dichloroethane	%	96	96	96		8937827
o-Terphenyl	%	90	95	93		8937992

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Bureau Veritas Job #: C3T2887
Report Date: 2023/09/28

GHD Limited
Client Project #: 12581540
Your P.O. #: 735-007544-1
Sampler Initials: CC

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

Bureau Veritas ID		XBK378			XBK380	XBK382		
Sampling Date		2023/09/20 12:00			2023/09/20 12:40	2023/09/20 13:00		
COC Number		955078-01-01			955078-01-01	955078-01-01		
	UNITS	S-12581540-092023-CC-BH112-6-7'6'' Lab-Dup	RDL	QC Batch	S-12581540-092023-CC-BH113-6-8	S-12581540-092023-CC-BH115-2-4	RDL	QC Batch
BTEX & F1 Hydrocarbons								
Benzene	ug/g				<0.020	<0.020	0.020	8937827
Toluene	ug/g				<0.020	<0.020	0.020	8937827
Ethylbenzene	ug/g				<0.020	<0.020	0.020	8937827
o-Xylene	ug/g				<0.020	<0.020	0.020	8937827
p+m-Xylene	ug/g				<0.040	<0.040	0.040	8937827
Total Xylenes	ug/g				<0.040	<0.040	0.040	8937827
F1 (C6-C10)	ug/g				<10	<10	10	8937827
F1 (C6-C10) - BTEX	ug/g				<10	<10	10	8937827
F2-F4 Hydrocarbons								
F2 (C10-C16 Hydrocarbons)	ug/g	<10	10	8937992	<10	<10	10	8937992
F3 (C16-C34 Hydrocarbons)	ug/g	<50	50	8937992	<50	<50	50	8937992
F4 (C34-C50 Hydrocarbons)	ug/g	<50	50	8937992	<50	<50	50	8937992
Reached Baseline at C50	ug/g	Yes		8937992	Yes	Yes		8937992
Surrogate Recovery (%)								
1,4-Difluorobenzene	%				94	96		8937827
4-Bromofluorobenzene	%				79	96		8937827
D10-o-Xylene	%				106	122		8937827
D4-1,2-Dichloroethane	%				97	98		8937827
o-Terphenyl	%	95		8937992	95	92		8937992

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

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

Bureau Veritas ID		XBK384	XBK386	XBK388	XBK390		
Sampling Date		2023/09/20 13:40	2023/09/20 14:20	2023/09/20 15:00	2023/09/20 15:40		
COC Number		955078-01-01	955078-01-01	955078-01-01	955078-01-01		
	UNITS	S-12581540-092023-CC-BH117-2-4	S-12581540-092023-CC-BH118-2-4	S-12581540-092023-CC-BH119-2-4	S-12581540-092023-CC-BH120-2-4	RDL	QC Batch
BTEX & F1 Hydrocarbons							
Benzene	ug/g	<0.020	<0.020	<0.020	<0.020	0.020	8937827
Toluene	ug/g	<0.020	0.023	<0.020	<0.020	0.020	8937827
Ethylbenzene	ug/g	<0.020	<0.020	<0.020	0.022	0.020	8937827
o-Xylene	ug/g	<0.020	<0.020	<0.020	0.056	0.020	8937827
p+m-Xylene	ug/g	<0.040	<0.040	<0.040	0.35	0.040	8937827
Total Xylenes	ug/g	<0.040	<0.040	<0.040	0.40	0.040	8937827
F1 (C6-C10)	ug/g	<10	<10	<10	<10	10	8937827
F1 (C6-C10) - BTEX	ug/g	<10	<10	<10	<10	10	8937827
F2-F4 Hydrocarbons							
F2 (C10-C16 Hydrocarbons)	ug/g	16	<10	<10	99	10	8937992
F3 (C16-C34 Hydrocarbons)	ug/g	560	<50	<50	830	50	8937992
F4 (C34-C50 Hydrocarbons)	ug/g	1000	<50	<50	470	50	8937992
Reached Baseline at C50	ug/g	No	Yes	Yes	No		8937992
Surrogate Recovery (%)							
1,4-Difluorobenzene	%	94	94	94	93		8937827
4-Bromofluorobenzene	%	101	81	111	98		8937827
D10-o-Xylene	%	107	115	116	118		8937827
D4-1,2-Dichloroethane	%	95	99	98	94		8937827
o-Terphenyl	%	94	99	90	92		8937992

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

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

Bureau Veritas ID		XBK390			XBK392		
Sampling Date		2023/09/20 15:40			2023/09/20 15:00		
COC Number		955078-01-01			955078-01-01		
	UNITS	S-12581540-092023-CC-BH120-2-4 Lab-Dup	RDL	QC Batch	S-12581540-092023-CC-DUP2	RDL	QC Batch
BTEX & F1 Hydrocarbons							
Benzene	ug/g	<0.020	0.020	8937827	<0.020	0.020	8937827
Toluene	ug/g	<0.020	0.020	8937827	<0.020	0.020	8937827
Ethylbenzene	ug/g	0.020	0.020	8937827	<0.020	0.020	8937827
o-Xylene	ug/g	0.057	0.020	8937827	<0.020	0.020	8937827
p+m-Xylene	ug/g	0.35	0.040	8937827	<0.040	0.040	8937827
Total Xylenes	ug/g	0.40	0.040	8937827	<0.040	0.040	8937827
F1 (C6-C10)	ug/g	<10	10	8937827	<10	10	8937827
F1 (C6-C10) - BTEX	ug/g	<10	10	8937827	<10	10	8937827
F2-F4 Hydrocarbons							
F2 (C10-C16 Hydrocarbons)	ug/g				<10	10	8937992
F3 (C16-C34 Hydrocarbons)	ug/g				<50	50	8937992
F4 (C34-C50 Hydrocarbons)	ug/g				<50	50	8937992
Reached Baseline at C50	ug/g				Yes		8937992
Surrogate Recovery (%)							
1,4-Difluorobenzene	%	93		8937827	92		8937827
4-Bromofluorobenzene	%	98		8937827	105		8937827
D10-o-Xylene	%	120		8937827	113		8937827
D4-1,2-Dichloroethane	%	89		8937827	97		8937827
o-Terphenyl	%				96		8937992

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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O.REG 153 VOCS BY HS & F1-F4 (SOIL)

Bureau Veritas ID		XBK376	XBK377	XBK379		
Sampling Date		2023/09/20 11:20	2023/09/20 11:40	2023/09/20 12:20		
COC Number		955078-01-01	955078-01-01	955078-01-01		
	UNITS	S-12581540-092023-CC-BH111-6-7	S-12581540-092023-CC-BH112-2-4	S-12581540-092023-CC-BH113-2-4	RDL	QC Batch
Calculated Parameters						
1,3-Dichloropropene (cis+trans)	ug/g	<0.050	<0.050	<0.050	0.050	8935494
Volatile Organics						
Acetone (2-Propanone)	ug/g	<0.49	<0.49	<0.49	0.49	8937890
Benzene	ug/g	0.013	0.030	0.012	0.0060	8937890
Bromodichloromethane	ug/g	<0.040	<0.040	<0.040	0.040	8937890
Bromoform	ug/g	<0.040	<0.040	<0.040	0.040	8937890
Bromomethane	ug/g	<0.040	<0.040	<0.040	0.040	8937890
Carbon Tetrachloride	ug/g	<0.040	<0.040	<0.040	0.040	8937890
Chlorobenzene	ug/g	<0.040	<0.040	<0.040	0.040	8937890
Chloroform	ug/g	<0.040	<0.040	<0.040	0.040	8937890
Dibromochloromethane	ug/g	<0.040	<0.040	<0.040	0.040	8937890
1,2-Dichlorobenzene	ug/g	<0.040	<0.040	<0.040	0.040	8937890
1,3-Dichlorobenzene	ug/g	<0.040	<0.040	<0.040	0.040	8937890
1,4-Dichlorobenzene	ug/g	<0.040	<0.040	<0.040	0.040	8937890
Dichlorodifluoromethane (FREON 12)	ug/g	<0.040	<0.040	<0.040	0.040	8937890
1,1-Dichloroethane	ug/g	<0.040	<0.040	<0.040	0.040	8937890
1,2-Dichloroethane	ug/g	<0.049	<0.049	<0.049	0.049	8937890
1,1-Dichloroethylene	ug/g	<0.040	<0.040	<0.040	0.040	8937890
cis-1,2-Dichloroethylene	ug/g	<0.040	<0.040	<0.040	0.040	8937890
trans-1,2-Dichloroethylene	ug/g	<0.040	<0.040	<0.040	0.040	8937890
1,2-Dichloropropane	ug/g	<0.040	<0.040	<0.040	0.040	8937890
cis-1,3-Dichloropropene	ug/g	<0.030	<0.030	<0.030	0.030	8937890
trans-1,3-Dichloropropene	ug/g	<0.040	<0.040	<0.040	0.040	8937890
Ethylbenzene	ug/g	0.16	0.026	0.070	0.010	8937890
Ethylene Dibromide	ug/g	<0.040	<0.040	<0.040	0.040	8937890
Hexane	ug/g	1.1	<0.040	0.70	0.040	8937890
Methylene Chloride(Dichloromethane)	ug/g	<0.049	<0.049	<0.049	0.049	8937890
Methyl Ethyl Ketone (2-Butanone)	ug/g	<0.40	<0.40	<0.40	0.40	8937890
Methyl Isobutyl Ketone	ug/g	<0.40	<0.40	<0.40	0.40	8937890
Methyl t-butyl ether (MTBE)	ug/g	<0.040	<0.040	<0.040	0.040	8937890
Styrene	ug/g	<0.040	<0.040	<0.040	0.040	8937890
1,1,1,2-Tetrachloroethane	ug/g	<0.040	<0.040	<0.040	0.040	8937890
1,1,2,2-Tetrachloroethane	ug/g	<0.040	<0.040	<0.040	0.040	8937890
Tetrachloroethylene	ug/g	<0.040	<0.040	<0.040	0.040	8937890

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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O.REG 153 VOCS BY HS & F1-F4 (SOIL)

Bureau Veritas ID		XBK376	XBK377	XBK379		
Sampling Date		2023/09/20 11:20	2023/09/20 11:40	2023/09/20 12:20		
COC Number		955078-01-01	955078-01-01	955078-01-01		
	UNITS	S-12581540-092023-CC-BH111-6-7	S-12581540-092023-CC-BH112-2-4	S-12581540-092023-CC-BH113-2-4	RDL	QC Batch
Toluene	ug/g	0.031	0.088	0.049	0.020	8937890
1,1,1-Trichloroethane	ug/g	<0.040	<0.040	<0.040	0.040	8937890
1,1,2-Trichloroethane	ug/g	<0.040	<0.040	<0.040	0.040	8937890
Trichloroethylene	ug/g	<0.010	<0.010	<0.010	0.010	8937890
Trichlorofluoromethane (FREON 11)	ug/g	<0.040	<0.040	<0.040	0.040	8937890
Vinyl Chloride	ug/g	<0.019	<0.019	<0.019	0.019	8937890
p+m-Xylene	ug/g	0.17	0.10	0.28	0.020	8937890
o-Xylene	ug/g	0.043	0.054	0.14	0.020	8937890
Total Xylenes	ug/g	0.21	0.15	0.42	0.020	8937890
F1 (C6-C10)	ug/g	150	<10	<10	10	8937890
F1 (C6-C10) - BTEX	ug/g	150	<10	<10	10	8937890
F2-F4 Hydrocarbons						
F2 (C10-C16 Hydrocarbons)	ug/g	410	80	59	10	8937992
F3 (C16-C34 Hydrocarbons)	ug/g	1900	1900	2300	50	8937992
F4 (C34-C50 Hydrocarbons)	ug/g	660	990	1300	50	8937992
Reached Baseline at C50	ug/g	No	No	No		8937992
Surrogate Recovery (%)						
o-Terphenyl	%	99	91	97		8937992
4-Bromofluorobenzene	%	97	96	96		8937890
D10-o-Xylene	%	98	92	92		8937890
D4-1,2-Dichloroethane	%	100	99	97		8937890
D8-Toluene	%	99	99	98		8937890

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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O.REG 153 VOCS BY HS & F1-F4 (SOIL)

Bureau Veritas ID		XBK381		
Sampling Date		2023/09/20 12:20		
COC Number		955078-01-01		
	UNITS	S-12581540-092023-CC-DUP1	RDL	QC Batch
Calculated Parameters				
1,3-Dichloropropene (cis+trans)	ug/g	<0.050	0.050	8935494
Volatile Organics				
Acetone (2-Propanone)	ug/g	<0.49	0.49	8937890
Benzene	ug/g	0.024	0.0060	8937890
Bromodichloromethane	ug/g	<0.040	0.040	8937890
Bromoform	ug/g	<0.040	0.040	8937890
Bromomethane	ug/g	<0.040	0.040	8937890
Carbon Tetrachloride	ug/g	<0.040	0.040	8937890
Chlorobenzene	ug/g	<0.040	0.040	8937890
Chloroform	ug/g	<0.040	0.040	8937890
Dibromochloromethane	ug/g	<0.040	0.040	8937890
1,2-Dichlorobenzene	ug/g	<0.040	0.040	8937890
1,3-Dichlorobenzene	ug/g	<0.040	0.040	8937890
1,4-Dichlorobenzene	ug/g	<0.040	0.040	8937890
Dichlorodifluoromethane (FREON 12)	ug/g	<0.040	0.040	8937890
1,1-Dichloroethane	ug/g	<0.040	0.040	8937890
1,2-Dichloroethane	ug/g	<0.049	0.049	8937890
1,1-Dichloroethylene	ug/g	<0.040	0.040	8937890
cis-1,2-Dichloroethylene	ug/g	<0.040	0.040	8937890
trans-1,2-Dichloroethylene	ug/g	<0.040	0.040	8937890
1,2-Dichloropropane	ug/g	<0.040	0.040	8937890
cis-1,3-Dichloropropene	ug/g	<0.030	0.030	8937890
trans-1,3-Dichloropropene	ug/g	<0.040	0.040	8937890
Ethylbenzene	ug/g	0.14	0.010	8937890
Ethylene Dibromide	ug/g	<0.040	0.040	8937890
Hexane	ug/g	1.1	0.040	8937890
Methylene Chloride(Dichloromethane)	ug/g	<0.049	0.049	8937890
Methyl Ethyl Ketone (2-Butanone)	ug/g	<0.40	0.40	8937890
Methyl Isobutyl Ketone	ug/g	<0.40	0.40	8937890
Methyl t-butyl ether (MTBE)	ug/g	<0.040	0.040	8937890
Styrene	ug/g	<0.040	0.040	8937890
1,1,1,2-Tetrachloroethane	ug/g	<0.040	0.040	8937890
1,1,2,2-Tetrachloroethane	ug/g	<0.040	0.040	8937890
Tetrachloroethylene	ug/g	<0.040	0.040	8937890

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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O.REG 153 VOCS BY HS & F1-F4 (SOIL)

Bureau Veritas ID		XBK381		
Sampling Date		2023/09/20 12:20		
COC Number		955078-01-01		
	UNITS	S-12581540-092023-CC-DUP1	RDL	QC Batch
Toluene	ug/g	0.089	0.020	8937890
1,1,1-Trichloroethane	ug/g	<0.040	0.040	8937890
1,1,2-Trichloroethane	ug/g	<0.040	0.040	8937890
Trichloroethylene	ug/g	<0.010	0.010	8937890
Trichlorofluoromethane (FREON 11)	ug/g	<0.040	0.040	8937890
Vinyl Chloride	ug/g	<0.019	0.019	8937890
p+m-Xylene	ug/g	0.58	0.020	8937890
o-Xylene	ug/g	0.27	0.020	8937890
Total Xylenes	ug/g	0.85	0.020	8937890
F1 (C6-C10)	ug/g	<10	10	8937890
F1 (C6-C10) - BTEX	ug/g	<10	10	8937890
F2-F4 Hydrocarbons				
F2 (C10-C16 Hydrocarbons)	ug/g	54	10	8937992
F3 (C16-C34 Hydrocarbons)	ug/g	2400	50	8937992
F4 (C34-C50 Hydrocarbons)	ug/g	1300	50	8937992
Reached Baseline at C50	ug/g	No		8937992
Surrogate Recovery (%)				
o-Terphenyl	%	92		8937992
4-Bromofluorobenzene	%	96		8937890
D10-o-Xylene	%	94		8937890
D4-1,2-Dichloroethane	%	100		8937890
D8-Toluene	%	98		8937890

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Bureau Veritas Job #: C3T2887
Report Date: 2023/09/28

GHD Limited
Client Project #: 12581540
Your P.O. #: 735-007544-1
Sampler Initials: CC

RESULTS OF ANALYSES OF SOIL

Bureau Veritas ID		XBK372	XBK374	XBK376	XBK377		
Sampling Date		2023/09/20 10:00	2023/09/20 10:40	2023/09/20 11:20	2023/09/20 11:40		
COC Number		955078-01-01	955078-01-01	955078-01-01	955078-01-01		
	UNITS	S-12581540-092023-CC-BH104-2-4	S-12581540-092023-CC-BH106-2-4	S-12581540-092023-CC-BH111-6-7	S-12581540-092023-CC-BH112-2-4	RDL	QC Batch
Inorganics							
Moisture	%	8.6	14	20	14	1.0	8938046

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Bureau Veritas ID		XBK378	XBK378		XBK379		
Sampling Date		2023/09/20 12:00	2023/09/20 12:00		2023/09/20 12:20		
COC Number		955078-01-01	955078-01-01		955078-01-01		
	UNITS	S-12581540-092023-CC-BH112-6-7'6''	S-12581540-092023-CC-BH112-6-7'6'' Lab-Dup	QC Batch	S-12581540-092023-CC-BH113-2-4	RDL	QC Batch
Inorganics							
Moisture	%	16	16	8938101	20	1.0	8938046

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas ID		XBK380	XBK381	XBK382	XBK384		
Sampling Date		2023/09/20 12:40	2023/09/20 12:20	2023/09/20 13:00	2023/09/20 13:40		
COC Number		955078-01-01	955078-01-01	955078-01-01	955078-01-01		
	UNITS	S-12581540-092023-CC-BH113-6-8	S-12581540-092023-CC-DUP1	S-12581540-092023-CC-BH115-2-4	S-12581540-092023-CC-BH117-2-4	RDL	QC Batch
Inorganics							
Moisture	%	13	23	19	6.9	1.0	8938046

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Bureau Veritas ID		XBK386	XBK388	XBK390	XBK392		
Sampling Date		2023/09/20 14:20	2023/09/20 15:00	2023/09/20 15:40	2023/09/20 15:00		
COC Number		955078-01-01	955078-01-01	955078-01-01	955078-01-01		
	UNITS	S-12581540-092023-CC-BH118-2-4	S-12581540-092023-CC-BH119-2-4	S-12581540-092023-CC-BH120-2-4	S-12581540-092023-CC-DUP2	RDL	QC Batch
Inorganics							
Moisture	%	16	15	18	14	1.0	8938046

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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GHD Limited
Client Project #: 12581540
Your P.O. #: 735-007544-1
Sampler Initials: CC

VOLATILE ORGANICS BY GC/MS (SOIL)

Bureau Veritas ID		XBK393		
Sampling Date		2023/09/20 10:00		
COC Number		955078-01-01		
	UNITS	TRIP BLANK	RDL	QC Batch
Calculated Parameters				
1,3-Dichloropropene (cis+trans)	ug/g	<0.050	0.050	8935494
Volatile Organics				
Acetone (2-Propanone)	ug/g	<0.49	0.49	8937890
Benzene	ug/g	<0.0060	0.0060	8937890
Bromodichloromethane	ug/g	<0.040	0.040	8937890
Bromoform	ug/g	<0.040	0.040	8937890
Bromomethane	ug/g	<0.040	0.040	8937890
Carbon Tetrachloride	ug/g	<0.040	0.040	8937890
Chlorobenzene	ug/g	<0.040	0.040	8937890
Chloroform	ug/g	<0.040	0.040	8937890
Dibromochloromethane	ug/g	<0.040	0.040	8937890
1,2-Dichlorobenzene	ug/g	<0.040	0.040	8937890
1,3-Dichlorobenzene	ug/g	<0.040	0.040	8937890
1,4-Dichlorobenzene	ug/g	<0.040	0.040	8937890
Dichlorodifluoromethane (FREON 12)	ug/g	<0.040	0.040	8937890
1,1-Dichloroethane	ug/g	<0.040	0.040	8937890
1,2-Dichloroethane	ug/g	<0.049	0.049	8937890
1,1-Dichloroethylene	ug/g	<0.040	0.040	8937890
cis-1,2-Dichloroethylene	ug/g	<0.040	0.040	8937890
trans-1,2-Dichloroethylene	ug/g	<0.040	0.040	8937890
1,2-Dichloropropane	ug/g	<0.040	0.040	8937890
cis-1,3-Dichloropropene	ug/g	<0.030	0.030	8937890
trans-1,3-Dichloropropene	ug/g	<0.040	0.040	8937890
Ethylbenzene	ug/g	<0.010	0.010	8937890
Ethylene Dibromide	ug/g	<0.040	0.040	8937890
Hexane	ug/g	<0.040	0.040	8937890
Methylene Chloride(Dichloromethane)	ug/g	<0.049	0.049	8937890
Methyl Ethyl Ketone (2-Butanone)	ug/g	<0.40	0.40	8937890
Methyl Isobutyl Ketone	ug/g	<0.40	0.40	8937890
Methyl t-butyl ether (MTBE)	ug/g	<0.040	0.040	8937890
Styrene	ug/g	<0.040	0.040	8937890
1,1,1,2-Tetrachloroethane	ug/g	<0.040	0.040	8937890
1,1,2,2-Tetrachloroethane	ug/g	<0.040	0.040	8937890
Tetrachloroethylene	ug/g	<0.040	0.040	8937890

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

VOLATILE ORGANICS BY GC/MS (SOIL)

Bureau Veritas ID		XBK393		
Sampling Date		2023/09/20 10:00		
COC Number		955078-01-01		
	UNITS	TRIP BLANK	RDL	QC Batch
Toluene	ug/g	<0.020	0.020	8937890
1,1,1-Trichloroethane	ug/g	<0.040	0.040	8937890
1,1,2-Trichloroethane	ug/g	<0.040	0.040	8937890
Trichloroethylene	ug/g	<0.010	0.010	8937890
Trichlorofluoromethane (FREON 11)	ug/g	<0.040	0.040	8937890
Vinyl Chloride	ug/g	<0.019	0.019	8937890
p+m-Xylene	ug/g	<0.020	0.020	8937890
o-Xylene	ug/g	<0.020	0.020	8937890
Total Xylenes	ug/g	<0.020	0.020	8937890
F1 (C6-C10)	ug/g	<10	10	8937890
F1 (C6-C10) - BTEX	ug/g	<10	10	8937890
Surrogate Recovery (%)				
4-Bromofluorobenzene	%	97		8937890
D10-o-Xylene	%	96		8937890
D4-1,2-Dichloroethane	%	98		8937890
D8-Toluene	%	98		8937890

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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PETROLEUM HYDROCARBONS (CCME)

Bureau Veritas ID		XBK372	XBK374	XBK376		
Sampling Date		2023/09/20 10:00	2023/09/20 10:40	2023/09/20 11:20		
COC Number		955078-01-01	955078-01-01	955078-01-01		
	UNITS	S-12581540-092023-CC-BH104-2-4	S-12581540-092023-CC-BH106-2-4	S-12581540-092023-CC-BH111-6-7	RDL	QC Batch
F2-F4 Hydrocarbons						
F4G-sg (Grav. Heavy Hydrocarbons)	ug/g	7300	5400	2200	100	8943398

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Bureau Veritas ID		XBK377	XBK379	XBK381		
Sampling Date		2023/09/20 11:40	2023/09/20 12:20	2023/09/20 12:20		
COC Number		955078-01-01	955078-01-01	955078-01-01		
	UNITS	S-12581540-092023-CC-BH112-2-4	S-12581540-092023-CC-BH113-2-4	S-12581540-092023-CC-DUP1	RDL	QC Batch
F2-F4 Hydrocarbons						
F4G-sg (Grav. Heavy Hydrocarbons)	ug/g	3400	4100	4900	100	8943398

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Bureau Veritas ID		XBK384	XBK390		
Sampling Date		2023/09/20 13:40	2023/09/20 15:40		
COC Number		955078-01-01	955078-01-01		
	UNITS	S-12581540-092023-CC-BH117-2-4	S-12581540-092023-CC-BH120-2-4	RDL	QC Batch
F2-F4 Hydrocarbons					
F4G-sg (Grav. Heavy Hydrocarbons)	ug/g	3800	1200	100	8946550

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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TEST SUMMARY

Bureau Veritas ID: XBK372 **Collected:** 2023/09/20
Sample ID: S-12581540-092023-CC-BH104-2-4 **Shipped:**
Matrix: Soil **Received:** 2023/09/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	8937827	N/A	2023/09/25	Abdikarim Ali
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8937992	2023/09/25	2023/09/26	(Kent) Maolin Li
F4G (CCME Hydrocarbons Gravimetric)	BAL	8943398	2023/09/27	2023/09/27	Rashmi Dubey
Moisture	BAL	8938046	N/A	2023/09/25	Shivani Desai

Bureau Veritas ID: XBK374 **Collected:** 2023/09/20
Sample ID: S-12581540-092023-CC-BH106-2-4 **Shipped:**
Matrix: Soil **Received:** 2023/09/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	8937827	N/A	2023/09/25	Abdikarim Ali
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8937992	2023/09/25	2023/09/26	(Kent) Maolin Li
F4G (CCME Hydrocarbons Gravimetric)	BAL	8943398	2023/09/27	2023/09/27	Rashmi Dubey
Moisture	BAL	8938046	N/A	2023/09/25	Shivani Desai

Bureau Veritas ID: XBK376 **Collected:** 2023/09/20
Sample ID: S-12581540-092023-CC-BH111-6-7 **Shipped:**
Matrix: Soil **Received:** 2023/09/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	8935494	N/A	2023/09/27	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8937992	2023/09/25	2023/09/26	(Kent) Maolin Li
F4G (CCME Hydrocarbons Gravimetric)	BAL	8943398	2023/09/27	2023/09/27	Rashmi Dubey
Moisture	BAL	8938046	N/A	2023/09/25	Shivani Desai
Volatile Organic Compounds and F1 PHCs	GC/MSFD	8937890	N/A	2023/09/26	Denis Reid

Bureau Veritas ID: XBK377 **Collected:** 2023/09/20
Sample ID: S-12581540-092023-CC-BH112-2-4 **Shipped:**
Matrix: Soil **Received:** 2023/09/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	8935494	N/A	2023/09/27	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8937992	2023/09/25	2023/09/26	(Kent) Maolin Li
F4G (CCME Hydrocarbons Gravimetric)	BAL	8943398	2023/09/27	2023/09/27	Rashmi Dubey
Moisture	BAL	8938046	N/A	2023/09/25	Shivani Desai
Volatile Organic Compounds and F1 PHCs	GC/MSFD	8937890	N/A	2023/09/26	Denis Reid

Bureau Veritas ID: XBK378 **Collected:** 2023/09/20
Sample ID: S-12581540-092023-CC-BH112-6-7'6'' **Shipped:**
Matrix: Soil **Received:** 2023/09/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	8937827	N/A	2023/09/25	Abdikarim Ali
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8937992	2023/09/25	2023/09/26	(Kent) Maolin Li
Moisture	BAL	8938101	N/A	2023/09/25	Shivani Desai

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TEST SUMMARY

Bureau Veritas ID: XBK378 Dup
Sample ID: S-12581540-092023-CC-BH112-6-7'6''
Matrix: Soil
Collected: 2023/09/20
Shipped:
Received: 2023/09/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8937992	2023/09/25	2023/09/26	(Kent) Maolin Li
Moisture	BAL	8938101	N/A	2023/09/25	Shivani Desai

Bureau Veritas ID: XBK379
Sample ID: S-12581540-092023-CC-BH113-2-4
Matrix: Soil
Collected: 2023/09/20
Shipped:
Received: 2023/09/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	8935494	N/A	2023/09/27	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8937992	2023/09/25	2023/09/26	(Kent) Maolin Li
F4G (CCME Hydrocarbons Gravimetric)	BAL	8943398	2023/09/27	2023/09/27	Rashmi Dubey
Moisture	BAL	8938046	N/A	2023/09/25	Shivani Desai
Volatile Organic Compounds and F1 PHCs	GC/MSFD	8937890	N/A	2023/09/26	Denis Reid

Bureau Veritas ID: XBK380
Sample ID: S-12581540-092023-CC-BH113-6-8
Matrix: Soil
Collected: 2023/09/20
Shipped:
Received: 2023/09/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	8937827	N/A	2023/09/25	Abdikarim Ali
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8937992	2023/09/25	2023/09/26	(Kent) Maolin Li
Moisture	BAL	8938046	N/A	2023/09/25	Shivani Desai

Bureau Veritas ID: XBK381
Sample ID: S-12581540-092023-CC-DUP1
Matrix: Soil
Collected: 2023/09/20
Shipped:
Received: 2023/09/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	8935494	N/A	2023/09/27	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8937992	2023/09/25	2023/09/26	(Kent) Maolin Li
F4G (CCME Hydrocarbons Gravimetric)	BAL	8943398	2023/09/27	2023/09/27	Rashmi Dubey
Moisture	BAL	8938046	N/A	2023/09/25	Shivani Desai
Volatile Organic Compounds and F1 PHCs	GC/MSFD	8937890	N/A	2023/09/26	Denis Reid

Bureau Veritas ID: XBK382
Sample ID: S-12581540-092023-CC-BH115-2-4
Matrix: Soil
Collected: 2023/09/20
Shipped:
Received: 2023/09/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	8937827	N/A	2023/09/25	Abdikarim Ali
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8937992	2023/09/25	2023/09/26	(Kent) Maolin Li
Moisture	BAL	8938046	N/A	2023/09/25	Shivani Desai

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TEST SUMMARY

Bureau Veritas ID: XBK384 **Collected:** 2023/09/20
Sample ID: S-12581540-092023-CC-BH117-2-4 **Shipped:**
Matrix: Soil **Received:** 2023/09/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	8937827	N/A	2023/09/25	Abdikarim Ali
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8937992	2023/09/25	2023/09/26	(Kent) Maolin Li
F4G (CCME Hydrocarbons Gravimetric)	BAL	8946550	2023/09/27	2023/09/28	Rashmi Dubey
Moisture	BAL	8938046	N/A	2023/09/25	Shivani Desai

Bureau Veritas ID: XBK386 **Collected:** 2023/09/20
Sample ID: S-12581540-092023-CC-BH118-2-4 **Shipped:**
Matrix: Soil **Received:** 2023/09/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	8937827	N/A	2023/09/25	Abdikarim Ali
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8937992	2023/09/25	2023/09/26	(Kent) Maolin Li
Moisture	BAL	8938046	N/A	2023/09/25	Shivani Desai

Bureau Veritas ID: XBK388 **Collected:** 2023/09/20
Sample ID: S-12581540-092023-CC-BH119-2-4 **Shipped:**
Matrix: Soil **Received:** 2023/09/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	8937827	N/A	2023/09/25	Abdikarim Ali
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8937992	2023/09/25	2023/09/26	(Kent) Maolin Li
Moisture	BAL	8938046	N/A	2023/09/25	Shivani Desai

Bureau Veritas ID: XBK390 **Collected:** 2023/09/20
Sample ID: S-12581540-092023-CC-BH120-2-4 **Shipped:**
Matrix: Soil **Received:** 2023/09/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	8937827	N/A	2023/09/25	Abdikarim Ali
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8937992	2023/09/25	2023/09/26	(Kent) Maolin Li
F4G (CCME Hydrocarbons Gravimetric)	BAL	8946550	2023/09/27	2023/09/28	Rashmi Dubey
Moisture	BAL	8938046	N/A	2023/09/25	Shivani Desai

Bureau Veritas ID: XBK390 Dup **Collected:** 2023/09/20
Sample ID: S-12581540-092023-CC-BH120-2-4 **Shipped:**
Matrix: Soil **Received:** 2023/09/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	8937827	N/A	2023/09/25	Abdikarim Ali

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Bureau Veritas Job #: C3T2887
Report Date: 2023/09/28

GHD Limited
Client Project #: 12581540
Your P.O. #: 735-007544-1
Sampler Initials: CC

TEST SUMMARY

Bureau Veritas ID: XBK392
Sample ID: S-12581540-092023-CC-DUP2
Matrix: Soil

Collected: 2023/09/20
Shipped:
Received: 2023/09/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	8937827	N/A	2023/09/25	Abdikarim Ali
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8937992	2023/09/25	2023/09/26	(Kent) Maolin Li
Moisture	BAL	8938046	N/A	2023/09/25	Shivani Desai

Bureau Veritas ID: XBK393
Sample ID: TRIP BLANK
Matrix: Soil

Collected: 2023/09/20
Shipped:
Received: 2023/09/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	8935494	N/A	2023/09/27	Automated Statchk
Volatile Organic Compounds and F1 PHCs	GC/MSFD	8937890	N/A	2023/09/26	Denis Reid

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GENERAL COMMENTS

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

Package 1	2.3°C

Results relate only to the items tested.

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QUALITY ASSURANCE REPORT

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8937827	1,4-Difluorobenzene	2023/09/25	84 (1)	60 - 140	88	60 - 140	98	%		
8937827	4-Bromofluorobenzene	2023/09/25	93 (1)	60 - 140	93	60 - 140	117	%		
8937827	D10-o-Xylene	2023/09/25	110 (1)	60 - 140	100	60 - 140	110	%		
8937827	D4-1,2-Dichloroethane	2023/09/25	89 (1)	60 - 140	88	60 - 140	99	%		
8937890	4-Bromofluorobenzene	2023/09/26	99	60 - 140	100	60 - 140	99	%		
8937890	D10-o-Xylene	2023/09/26	98	60 - 130	93	60 - 130	91	%		
8937890	D4-1,2-Dichloroethane	2023/09/26	102	60 - 140	100	60 - 140	99	%		
8937890	D8-Toluene	2023/09/26	100	60 - 140	98	60 - 140	99	%		
8937992	o-Terphenyl	2023/09/25	97 (4)	60 - 130	91	60 - 130	94	%		
8937827	Benzene	2023/09/25	75 (1)	50 - 140	68	50 - 140	<0.020	ug/g	NC (2)	50
8937827	Ethylbenzene	2023/09/25	100 (1)	50 - 140	88	50 - 140	<0.020	ug/g	10 (2)	50
8937827	F1 (C6-C10) - BTEX	2023/09/25					<10	ug/g	NC (2)	30
8937827	F1 (C6-C10)	2023/09/25	91 (1)	60 - 140	84	80 - 120	<10	ug/g	NC (2)	30
8937827	o-Xylene	2023/09/25	105 (1)	50 - 140	92	50 - 140	<0.020	ug/g	1.4 (2)	50
8937827	p+m-Xylene	2023/09/25	98 (1)	50 - 140	87	50 - 140	<0.040	ug/g	0 (2)	50
8937827	Toluene	2023/09/25	88 (1)	50 - 140	77	50 - 140	<0.020	ug/g	NC (2)	50
8937827	Total Xylenes	2023/09/25					<0.040	ug/g	0.20 (2)	50
8937890	1,1,1,2-Tetrachloroethane	2023/09/26	94	60 - 140	91	60 - 130	<0.040	ug/g	NC (3)	50
8937890	1,1,1-Trichloroethane	2023/09/26	90	60 - 140	86	60 - 130	<0.040	ug/g	NC (3)	50
8937890	1,1,2,2-Tetrachloroethane	2023/09/26	98	60 - 140	99	60 - 130	<0.040	ug/g	NC (3)	50
8937890	1,1,2-Trichloroethane	2023/09/26	91	60 - 140	89	60 - 130	<0.040	ug/g	NC (3)	50
8937890	1,1-Dichloroethane	2023/09/26	93	60 - 140	90	60 - 130	<0.040	ug/g	NC (3)	50
8937890	1,1-Dichloroethylene	2023/09/26	91	60 - 140	87	60 - 130	<0.040	ug/g	NC (3)	50
8937890	1,2-Dichlorobenzene	2023/09/26	91	60 - 140	88	60 - 130	<0.040	ug/g	NC (3)	50
8937890	1,2-Dichloroethane	2023/09/26	90	60 - 140	89	60 - 130	<0.049	ug/g	NC (3)	50
8937890	1,2-Dichloropropane	2023/09/26	92	60 - 140	90	60 - 130	<0.040	ug/g	NC (3)	50
8937890	1,3-Dichlorobenzene	2023/09/26	95	60 - 140	90	60 - 130	<0.040	ug/g	NC (3)	50
8937890	1,4-Dichlorobenzene	2023/09/26	103	60 - 140	99	60 - 130	<0.040	ug/g	NC (3)	50
8937890	Acetone (2-Propanone)	2023/09/26	96	60 - 140	93	60 - 140	<0.49	ug/g	NC (3)	50
8937890	Benzene	2023/09/26	85	60 - 140	83	60 - 130	<0.0060	ug/g	NC (3)	50

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8937890	Bromodichloromethane	2023/09/26	100	60 - 140	98	60 - 130	<0.040	ug/g	NC (3)	50
8937890	Bromoform	2023/09/26	84	60 - 140	84	60 - 130	<0.040	ug/g	NC (3)	50
8937890	Bromomethane	2023/09/26	91	60 - 140	88	60 - 140	<0.040	ug/g	NC (3)	50
8937890	Carbon Tetrachloride	2023/09/26	89	60 - 140	85	60 - 130	<0.040	ug/g	NC (3)	50
8937890	Chlorobenzene	2023/09/26	96	60 - 140	93	60 - 130	<0.040	ug/g	NC (3)	50
8937890	Chloroform	2023/09/26	97	60 - 140	93	60 - 130	<0.040	ug/g	NC (3)	50
8937890	cis-1,2-Dichloroethylene	2023/09/26	94	60 - 140	91	60 - 130	<0.040	ug/g	NC (3)	50
8937890	cis-1,3-Dichloropropene	2023/09/26	87	60 - 140	88	60 - 130	<0.030	ug/g	NC (3)	50
8937890	Dibromochloromethane	2023/09/26	92	60 - 140	91	60 - 130	<0.040	ug/g	NC (3)	50
8937890	Dichlorodifluoromethane (FREON 12)	2023/09/26	73	60 - 140	72	60 - 140	<0.040	ug/g	NC (3)	50
8937890	Ethylbenzene	2023/09/26	86	60 - 140	82	60 - 130	<0.010	ug/g	NC (3)	50
8937890	Ethylene Dibromide	2023/09/26	93	60 - 140	92	60 - 130	<0.040	ug/g	NC (3)	50
8937890	F1 (C6-C10) - BTEX	2023/09/26					<10	ug/g	NC (3)	30
8937890	F1 (C6-C10)	2023/09/26	85	60 - 140	87	80 - 120	<10	ug/g	NC (3)	30
8937890	Hexane	2023/09/26	83	60 - 140	79	60 - 130	<0.040	ug/g	NC (3)	50
8937890	Methyl Ethyl Ketone (2-Butanone)	2023/09/26	94	60 - 140	94	60 - 140	<0.40	ug/g	NC (3)	50
8937890	Methyl Isobutyl Ketone	2023/09/26	81	60 - 140	84	60 - 130	<0.40	ug/g	NC (3)	50
8937890	Methyl t-butyl ether (MTBE)	2023/09/26	90	60 - 140	87	60 - 130	<0.040	ug/g	NC (3)	50
8937890	Methylene Chloride(Dichloromethane)	2023/09/26	91	60 - 140	88	60 - 130	<0.049	ug/g	NC (3)	50
8937890	o-Xylene	2023/09/26	79	60 - 140	77	60 - 130	<0.020	ug/g	NC (3)	50
8937890	p+m-Xylene	2023/09/26	89	60 - 140	85	60 - 130	<0.020	ug/g	NC (3)	50
8937890	Styrene	2023/09/26	95	60 - 140	92	60 - 130	<0.040	ug/g	NC (3)	50
8937890	Tetrachloroethylene	2023/09/26	91	60 - 140	87	60 - 130	<0.040	ug/g	NC (3)	50
8937890	Toluene	2023/09/26	83	60 - 140	81	60 - 130	<0.020	ug/g	NC (3)	50
8937890	Total Xylenes	2023/09/26					<0.020	ug/g	NC (3)	50
8937890	trans-1,2-Dichloroethylene	2023/09/26	91	60 - 140	86	60 - 130	<0.040	ug/g	NC (3)	50
8937890	trans-1,3-Dichloropropene	2023/09/26	83	60 - 140	83	60 - 130	<0.040	ug/g	NC (3)	50
8937890	Trichloroethylene	2023/09/26	95	60 - 140	92	60 - 130	<0.010	ug/g	5.9 (3)	50
8937890	Trichlorofluoromethane (FREON 11)	2023/09/26	94	60 - 140	89	60 - 130	<0.040	ug/g	NC (3)	50
8937890	Vinyl Chloride	2023/09/26	84	60 - 140	83	60 - 130	<0.019	ug/g	NC (3)	50

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8937992	F2 (C10-C16 Hydrocarbons)	2023/09/26	97 (4)	60 - 130	91	80 - 120	<10	ug/g	NC (5)	30
8937992	F3 (C16-C34 Hydrocarbons)	2023/09/26	97 (4)	60 - 130	89	80 - 120	<50	ug/g	NC (5)	30
8937992	F4 (C34-C50 Hydrocarbons)	2023/09/26	97 (4)	60 - 130	91	80 - 120	<50	ug/g	NC (5)	30
8938046	Moisture	2023/09/25							1.9 (3)	20
8938101	Moisture	2023/09/25							3.2 (5)	20
8943398	F4G-sg (Grav. Heavy Hydrocarbons)	2023/09/27	91	65 - 135	101	65 - 135	<100	ug/g	0 (3)	50
8946550	F4G-sg (Grav. Heavy Hydrocarbons)	2023/09/28	101	65 - 135	101	65 - 135	<100	ug/g	3.6 (3)	50

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Matrix Spike Parent ID [XBK390-02]

(2) Duplicate Parent ID [XBK390-02]

(3) Duplicate Parent ID

(4) Matrix Spike Parent ID [XBK378-01]

(5) Duplicate Parent ID [XBK378-01]

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VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Anastassia Hamanov, Scientific Specialist

Cristina Carriere, Senior Scientific Specialist

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

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CHAIN OF CUSTODY RECORD

22-Sep-23 13:26
Julie Clement
C3T2887
WP ENV-1518

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:	
Company Name:	#3000 GHD Limited	Company Name:		Quotation #:	C30107
Attention:	(AP-735) Kory Ozgun	Attention:	12581540-PO-735-007544	P.O. #:	735-007544-1
Address:	455 Phillip St Waterloo ON N2L 3X2	Address:		Project:	12581540
				Project Name:	
Tel:	(519) 884-0510 Fax: (519) 725-1394	Tel:	Fax:	Site #:	
Email:	AccountsPayableCDN@ghd.com	Email:	NationalEDDsupport@maxxam.ca;Jennifer Balkwill <Je	Sampled By:	Chris Cini

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)
☐ Table 1 ☐ Res/Park ☐ Medium/Fine
☐ Table 2 ☐ Ind/Comm ☐ Coarse
☐ Table 3 ☐ Agri/Other ☐ For RSC
☐ Table ___

Other Regulations
☐ CCME ☐ Sanitary Sewer Bylaw
☐ Reg 558. ☐ Storm Sewer Bylaw
☐ MISA Municipality ___
☐ PWQO ☐ Reg 406 Table ___
☐ Other ___

Special Instructions

Include Criteria on Certificate of Analysis (Y/N)? ___

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

Please provide advance notice for rush projects

Regular (Standard) TAT: X
(will be applied if Rush TAT is not specified):
Standard TAT = 5-7 Working days for most tests..
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: ___ Time Required: ___ ☐
Rush Confirmation Number: ___ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	O.Reg 153 PHCs, BTEX/F1-F4	O.Reg 153 VOCs by HS	HOLD	# of Bottles	Comments
1	S-12581540-0923-CC-	BH104-2-4	09/20/23	10:00	S		X			3	only suffix on jars.
2	- - -	-BH104-6-8		10:20			X		X	3	use full label for report
3	- - -	-BH106-2-4		10:40			X			3	
4	- - -	-BH106-6-8		11:00			X		X	3	
5	- - -	-BH111-6-7		11:20			X	X		3	
6	- - -	-BH112-2-4		11:40			X	X		3	
7	- - -	-BH112-6-7.6'		12:00			X			3	
8	- - -	-BH113-2-4		12:20			X	X		3	
9	- - -	-BH113-6-8		12:40			X			3	
10	- - -	-DUP1		12:20			X	X		3	

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
Chris Cini	23/09/22	13:25	[illegible] 1127450569	23/09/22	13:26	

Laboratory Use Only
Time Sensitive | Temperature (°C) on Recei: 3/6/2 | Custody Seal Present ☐ Yes ☐ | Intact ☐ No ☐

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/COC-TERMS-AND-CONDITIONS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/CHAIN-CUSTODY-FORMS-COCS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

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CHAIN OF CUSTODY RECORD

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#3000 GHD Limited	Company Name:		Quotation #:	C30107	Bureau Veritas Job #:	Bottle Order #:
Attention:	(AP-735) Kory Ozgun	Attention:	12581540-PO-735-007544	P.O. #:	735-007544-1		955078
Address:	455 Phillip St Waterloo ON N2L 3X2	Address:		Project:	12581540	COC #:	Project Manager:
Tel:	(519) 884-0510 Fax: (519) 725-1394	Tel:	Fax:	Project Name:		C#955078-02-01	Julie Clement
Email:	AccountsPayableCDN@ghd.com	Email:	NationalEDDsupport@maxxam.ca;Jennifer Balkwill <Je	Site #:			
				Sampled By:	Chris Cini		

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)	Other Regulations	Special Instructions
☐ Table 1 ☐ Res/Park ☐ Medium/Fine ☐ Table 2 ☐ Ind/Comm ☐ Coarse ☐ Table 3 ☐ Agri/Other ☐ For RSC ☐ Table ___	☐ CCME ☐ Sanitary Sewer Bylaw ☐ Reg 558 ☐ Storm Sewer Bylaw ☐ MISA Municipality ____ ☐ PWQO ☐ Reg 406 Table ____ ☐ Other ____	

Include Criteria on Certificate of Analysis (Y/N)? ____

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

Regular (Standard) TAT: ☒
(will be applied if Rush TAT is not specified):
Standard TAT = 5-7 Working days for most tests..
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: ____ Time Required: ____ ☐
Rush Confirmation Number: ____ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	O Reg 153 PHCs, BTEX/F1-F4	O Reg 153 VOCs by HS		HOLD						# of Bottles	Comments
1	S-12581540-09[illegible]23	-CC-BH115-2-4	09/29/23	13:00	S		X									3	
2	-	-BH115-4-6		13:20			X			X						3	
3	-	-BH117-2-4		13:40			X									3	
4	-	-BH117-6-7'6"		14:00			X			X						3	
5	-	-BH118-2-4		14:20			X									3	
6	-	-BH118-6-8		14:40			X			X						3	
7	-	-BH119-2-4		15:00			X									3	
8	-	-BH119-6-8		15:20			X			X						3	
9	-	-BH120-2-4		15:40			X									3	
10	-	-BH120-6-8		16:00			X			X						3	

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Laboratory Use Only				
Chris Cini	23/09/22	15:25	See Page 1				Time Sensitive	Temperature (°C) on Recei	Custody Seal Present	Yes	No
									Intact		

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CHAIN OF CUSTODY RECORD

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#3000 GHD Limited	Company Name:		Quotation #:	C30107	Bureau Veritas Job #:	Bottle Order #:
Attention:	(AP-735) Kory Ozgun	Attention:	12581540-PO-735-007544	P.O. #:	735-007544-1		955078
Address:	455 Phillip St Waterloo ON N2L 3X2	Address:		Project:	12581540	COC #:	Project Manager:
Tel:	(519) 884-0510 Fax: (519) 725-1394	Tel:	Fax:	Project Name:		C#955078-03-01	Julie Clement
Email:	AccountsPayableCDN@ghd.com	Email:	NationalEDDsupport@maxxam.ca;Jennifer Balkwill <Je	Site #:			
				Sampled By:	Chris Cini		

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Include Criteria on Certificate of Analysis (Y/N)? ___

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

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Regular (Standard) TAT:
(will be applied if Rush TAT is not specified): ☑
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Date Required: ___ Time Required: ___ ☐
Rush Confirmation Number: ___ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	O.Reg 153 PHCs, BTEX/F1-F4	O.Reg 153 VOCs by HS	VOC/F1	# of Bottles	Comments
1	S-12581540-09	23-CC-DUP2	09/20/23	15:00	S		X			3	
2	Trip	Blank	09/20/23	10:00	S				X	2	
3											
4											
5											
6											
7											
8											
9											
10											

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Laboratory Use Only			
Chris Cini	23/09/22	13:25	See pages				Time Sensitive	Temperature (°C) on Recei	Custody Seal Present / Intact	Yes / No

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SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

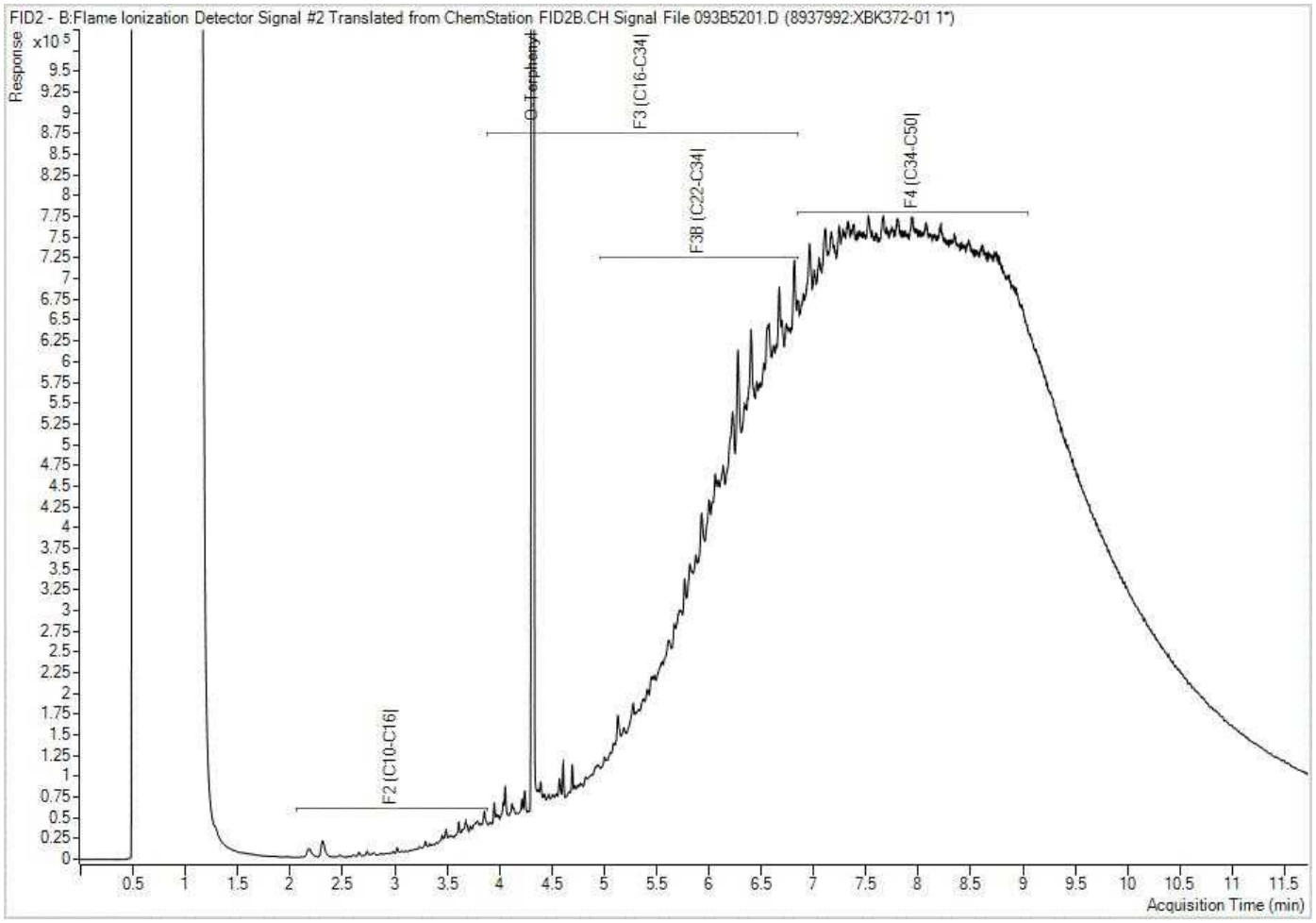
White: Bureau Veritas Yellow: Client

Bureau Veritas Canada (2019) Inc.

Bureau Veritas Job #: C3T2887
Report Date: 2023/09/28
Bureau Veritas Sample: XBK372

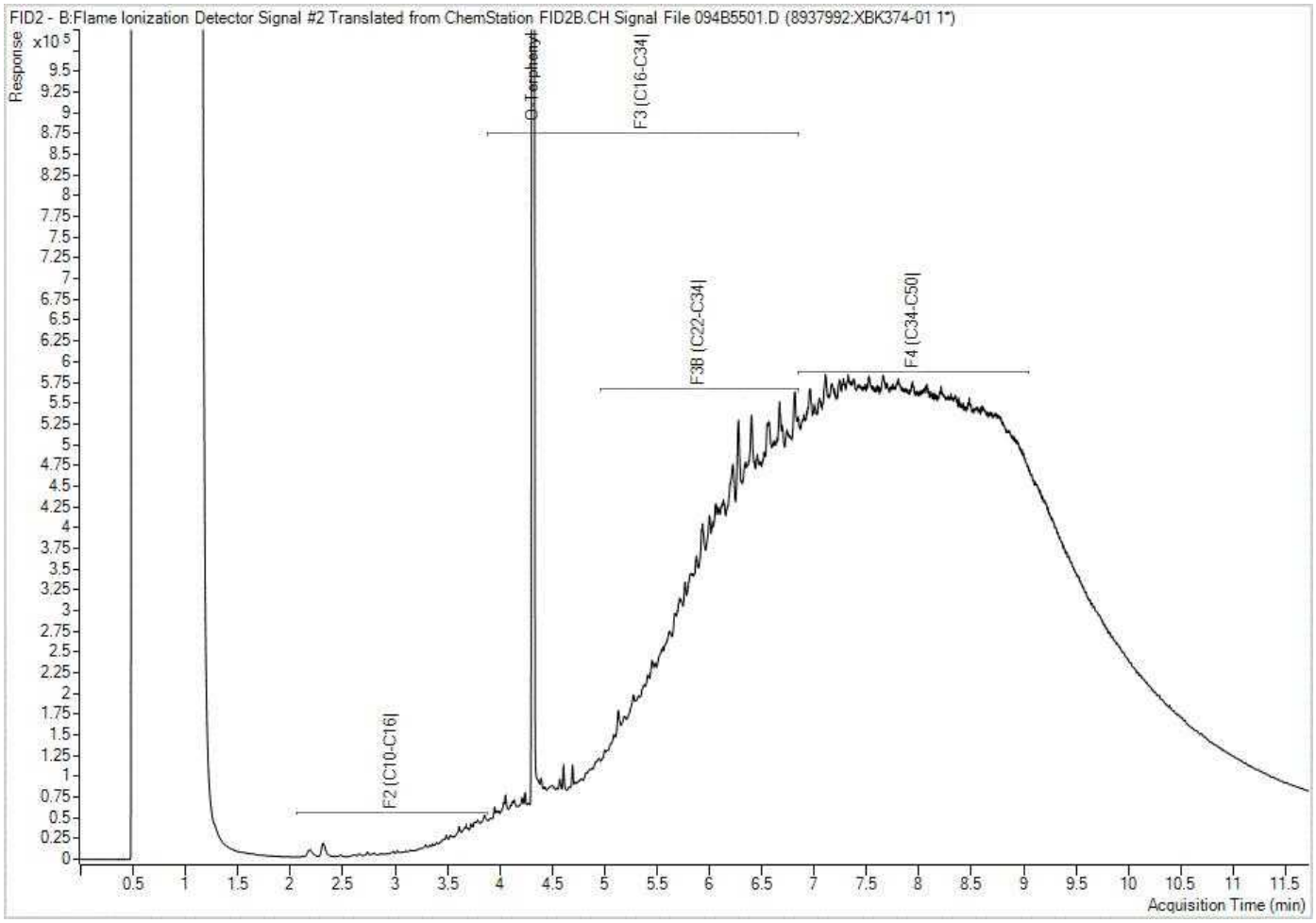
GHD Limited
Client Project #: 12581540
Client ID: S-12581540-092023-CC-BH104-2-4

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



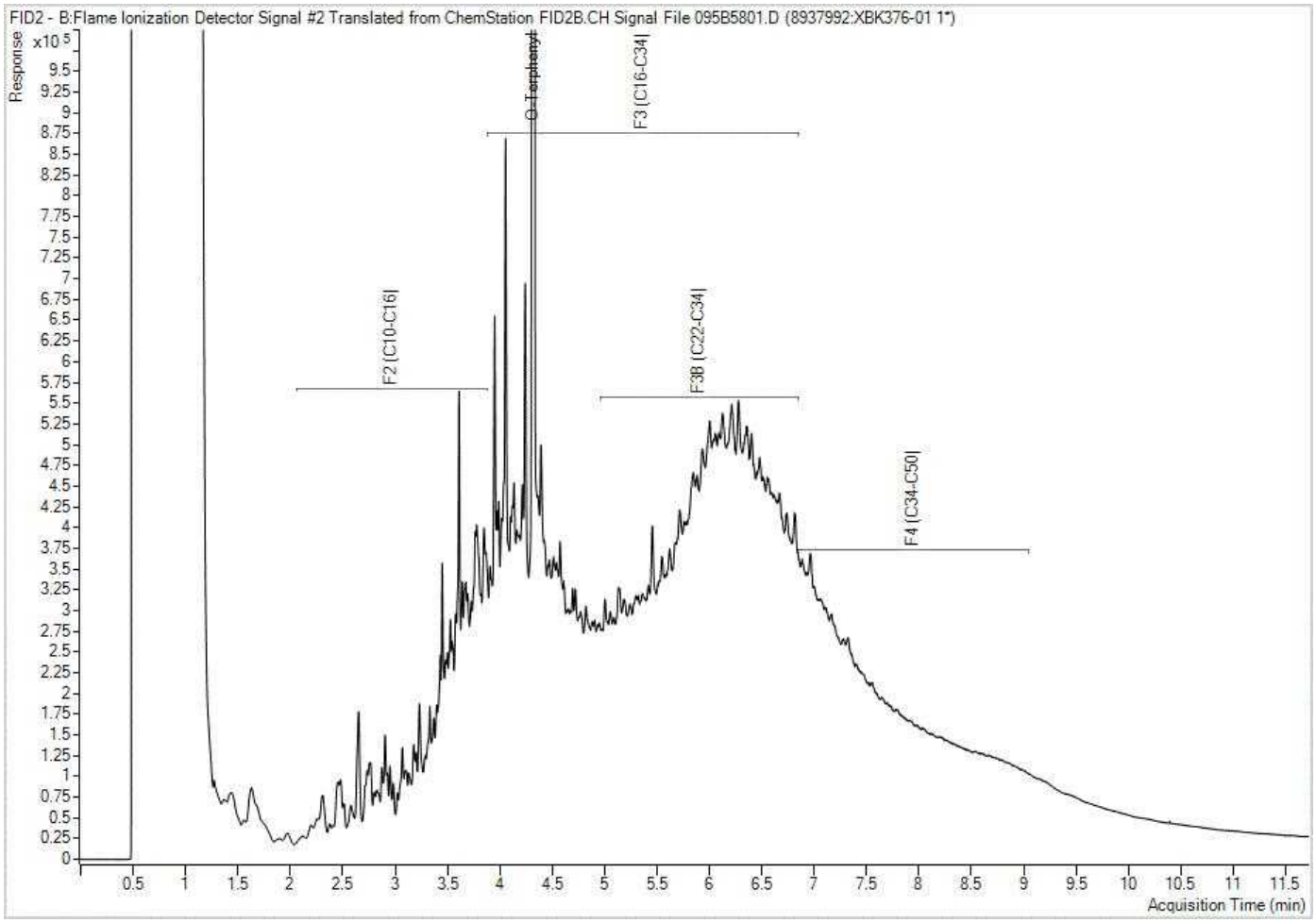
Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



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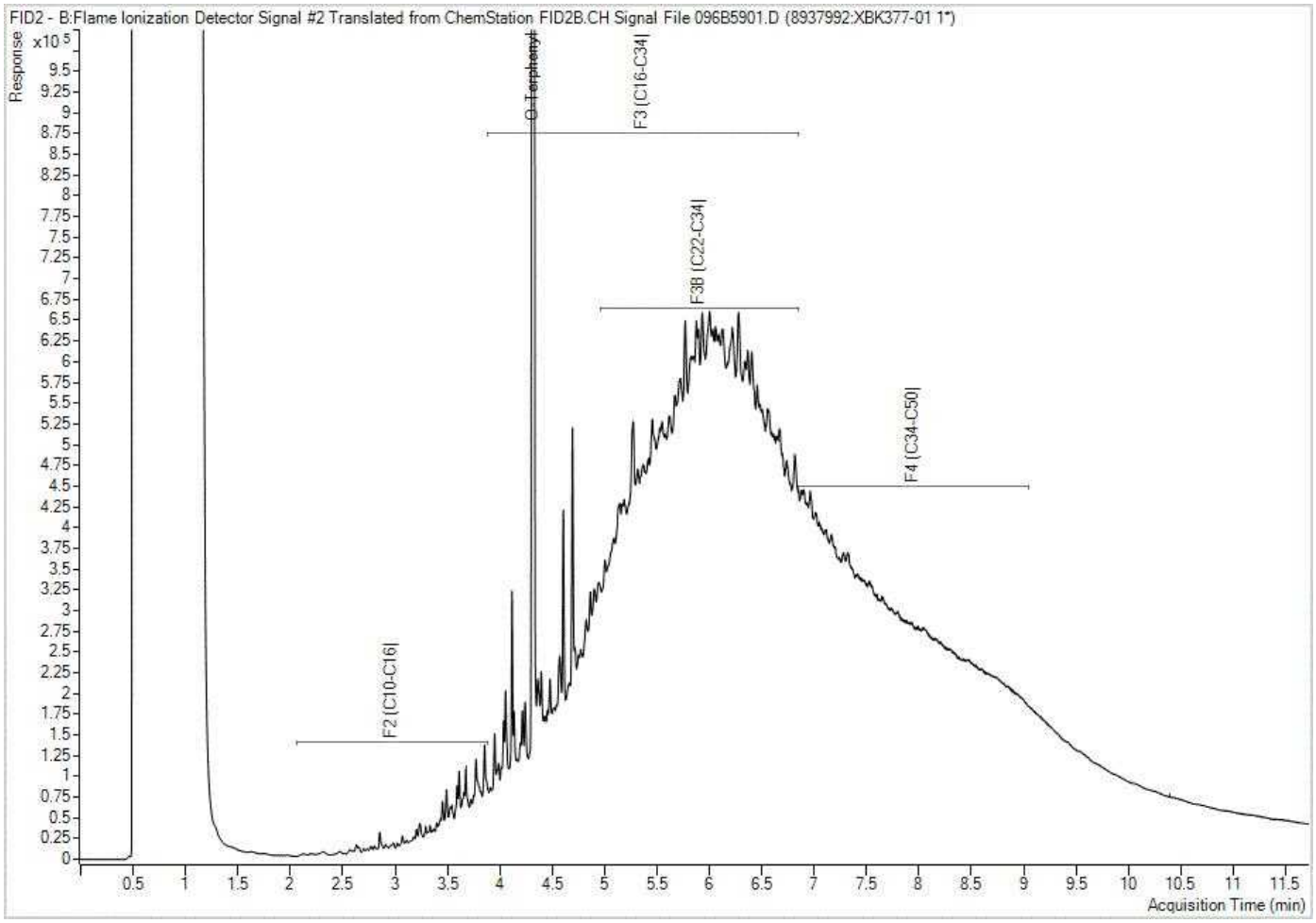
Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



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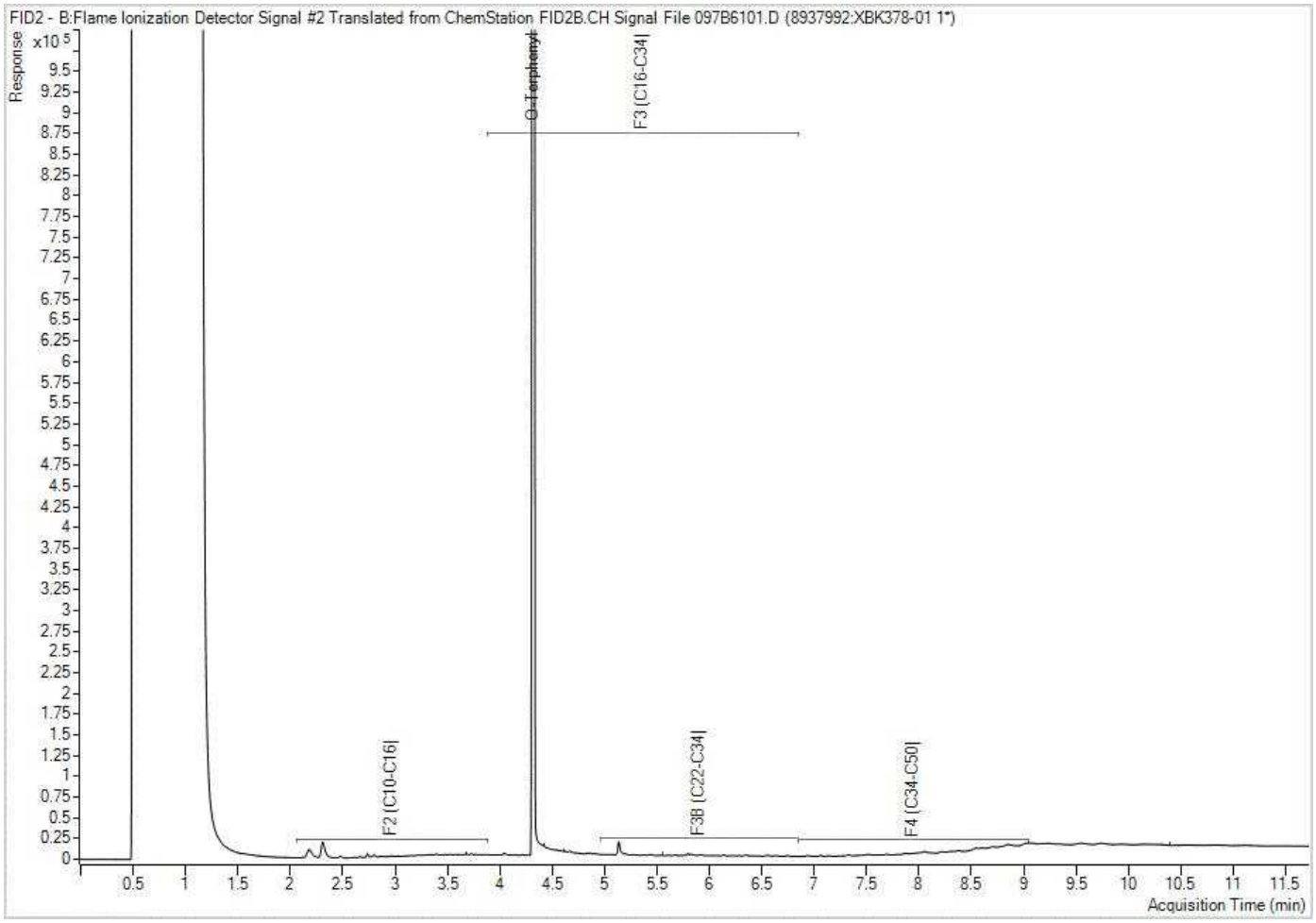
Bureau Veritas Job #: C3T2887
Report Date: 2023/09/28
Bureau Veritas Sample: XBK378

GHD Limited
Client Project #: 12581540
Client ID: S-12581540-092023-CC-BH112-6-7'6''

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

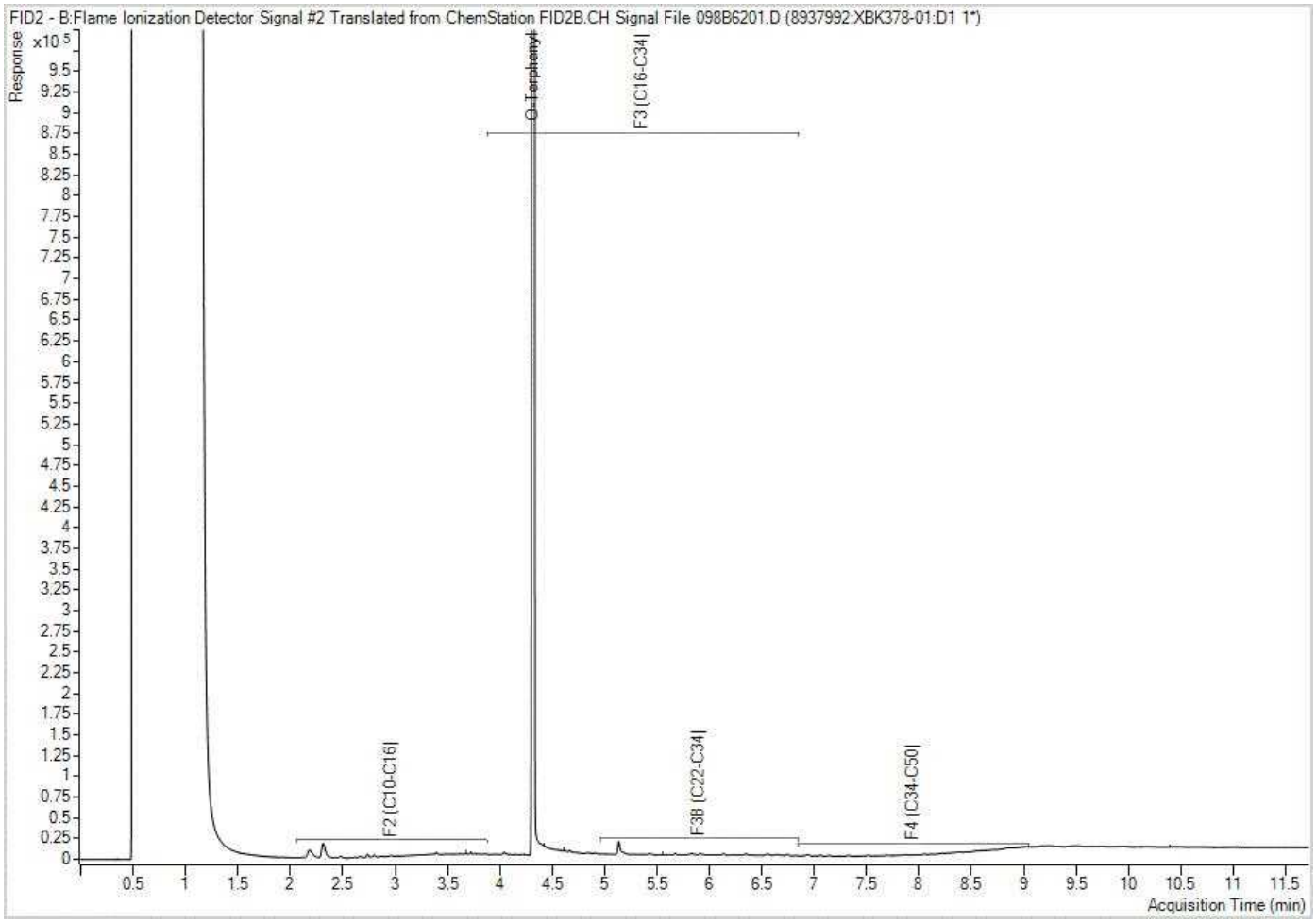


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C3T2887
Report Date: 2023/09/28
Bureau Veritas Sample: XBK378 Lab-Dup

GHD Limited
Client Project #: 12581540
Client ID: S-12581540-092023-CC-BH112-6-7'6''

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

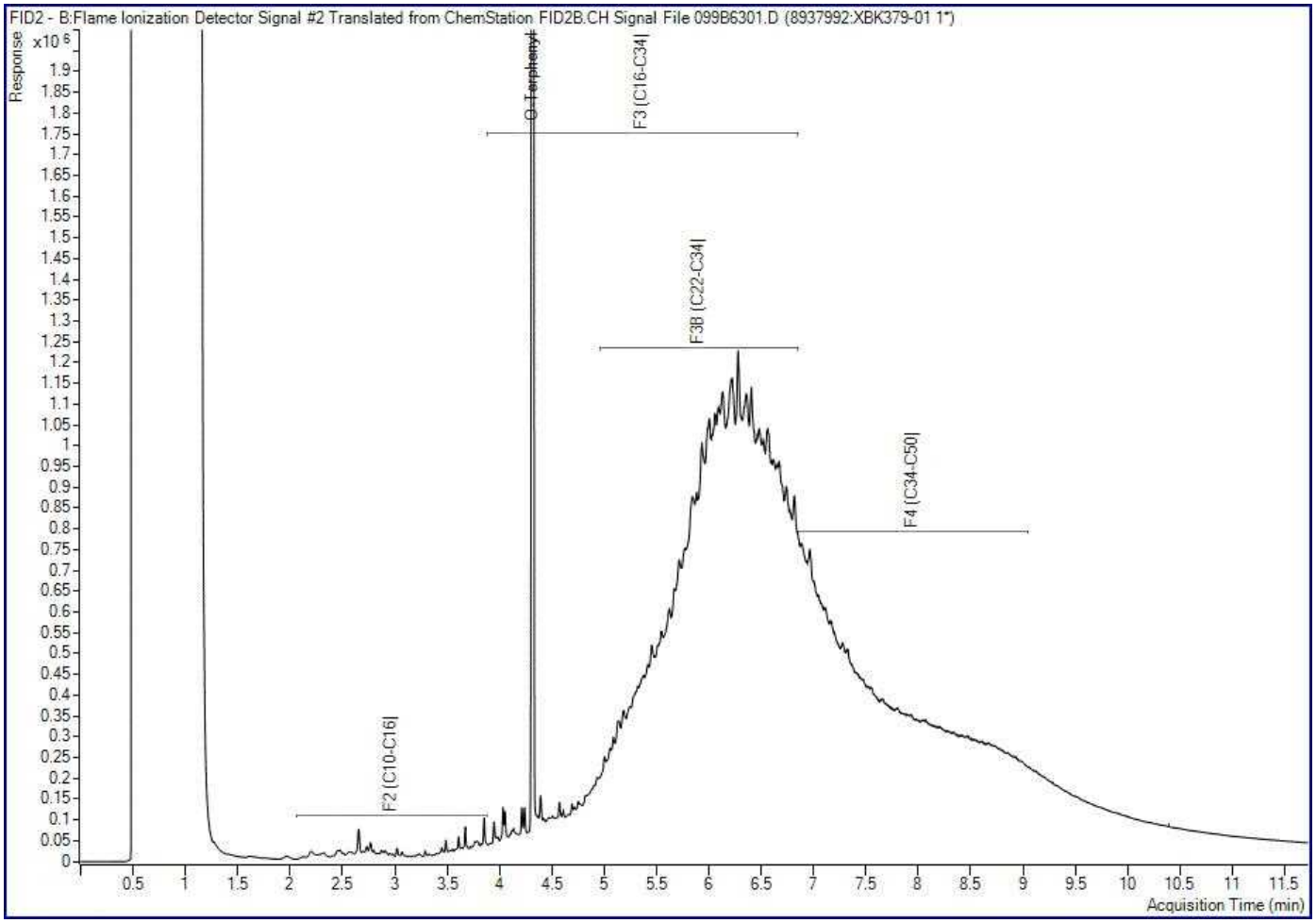


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C3T2887
Report Date: 2023/09/28
Bureau Veritas Sample: XBK379

GHD Limited
Client Project #: 12581540
Client ID: S-12581540-092023-CC-BH113-2-4

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

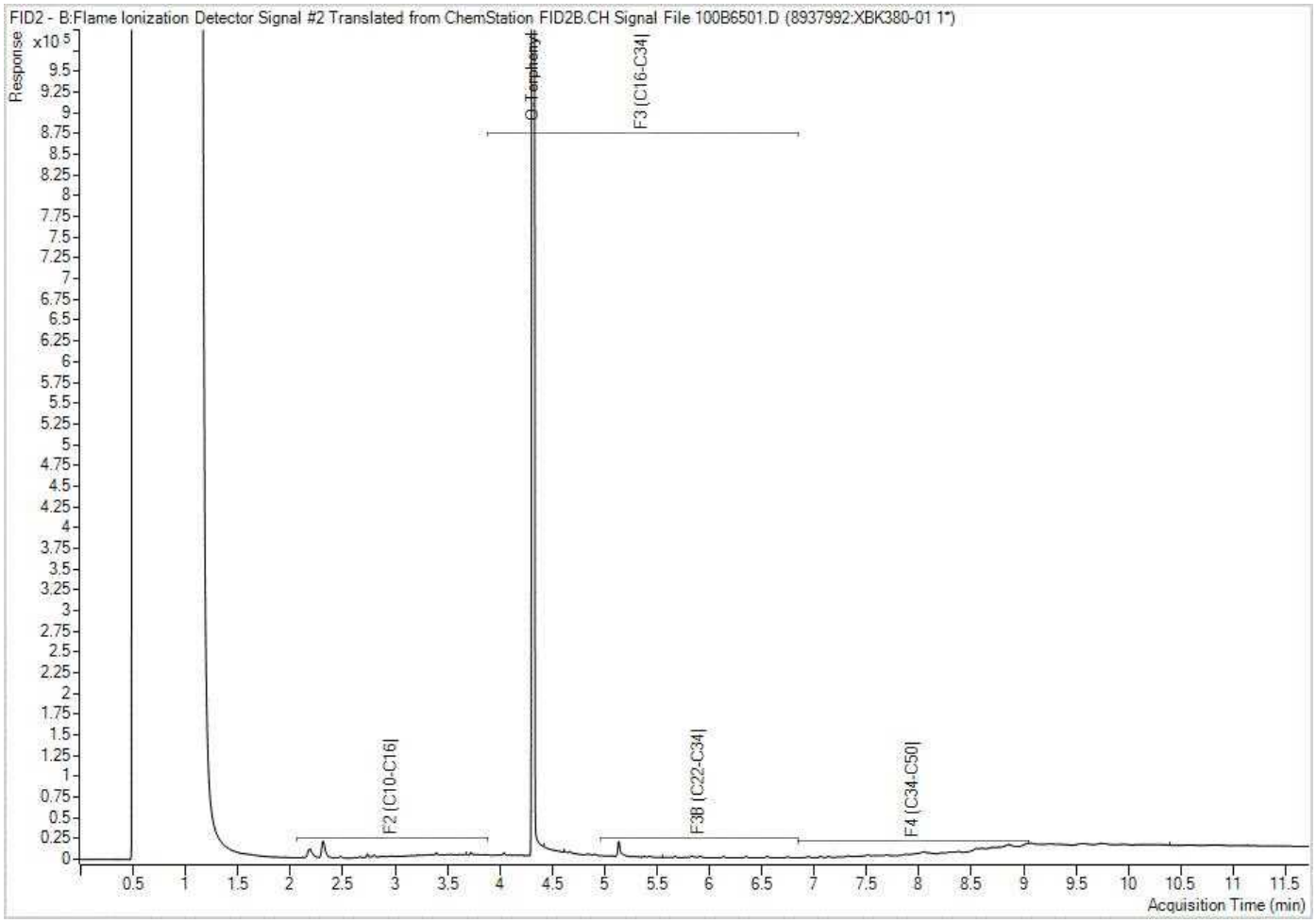


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C3T2887
Report Date: 2023/09/28
Bureau Veritas Sample: XBK380

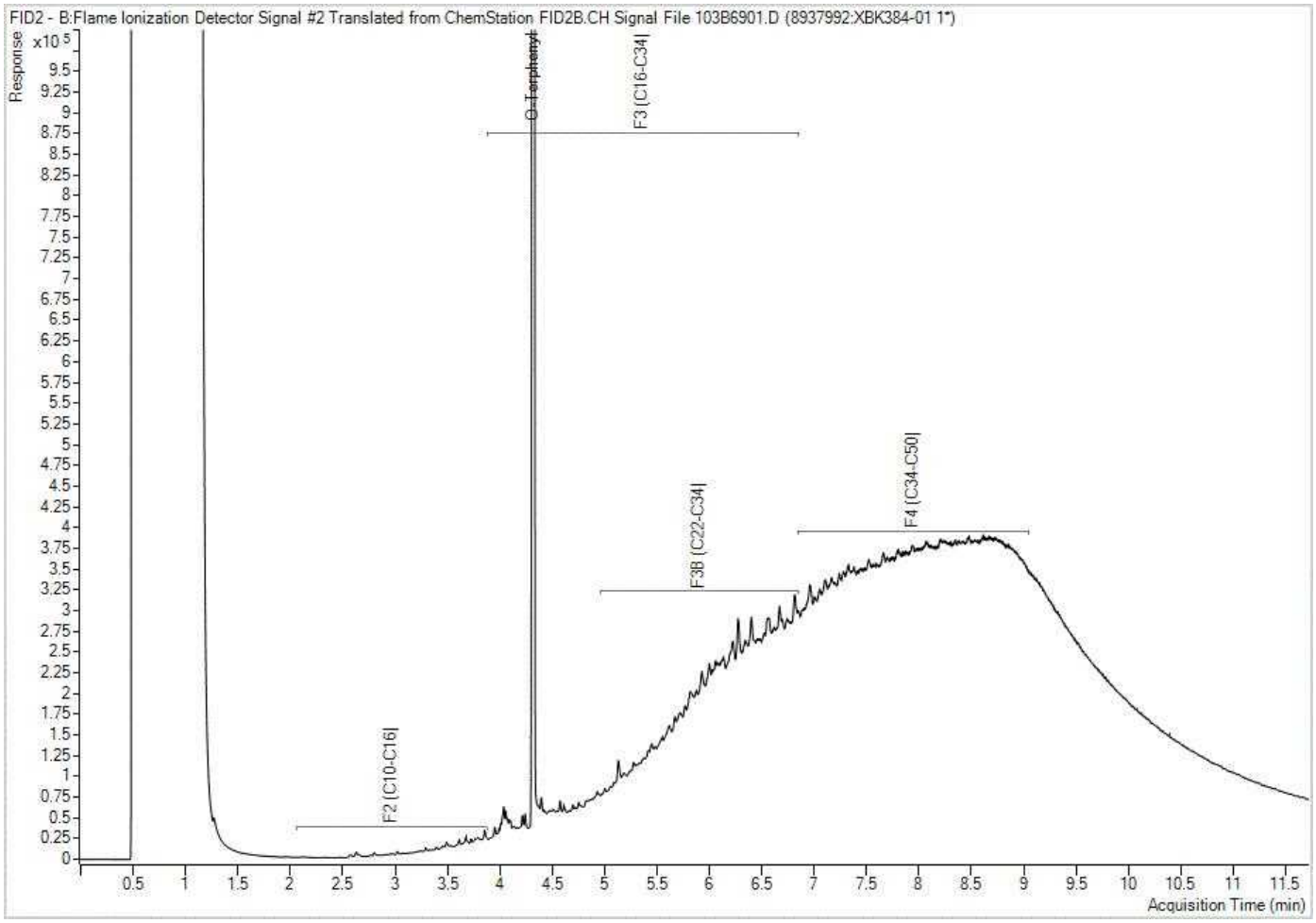
GHD Limited
Client Project #: 12581540
Client ID: S-12581540-092023-CC-BH113-6-8

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

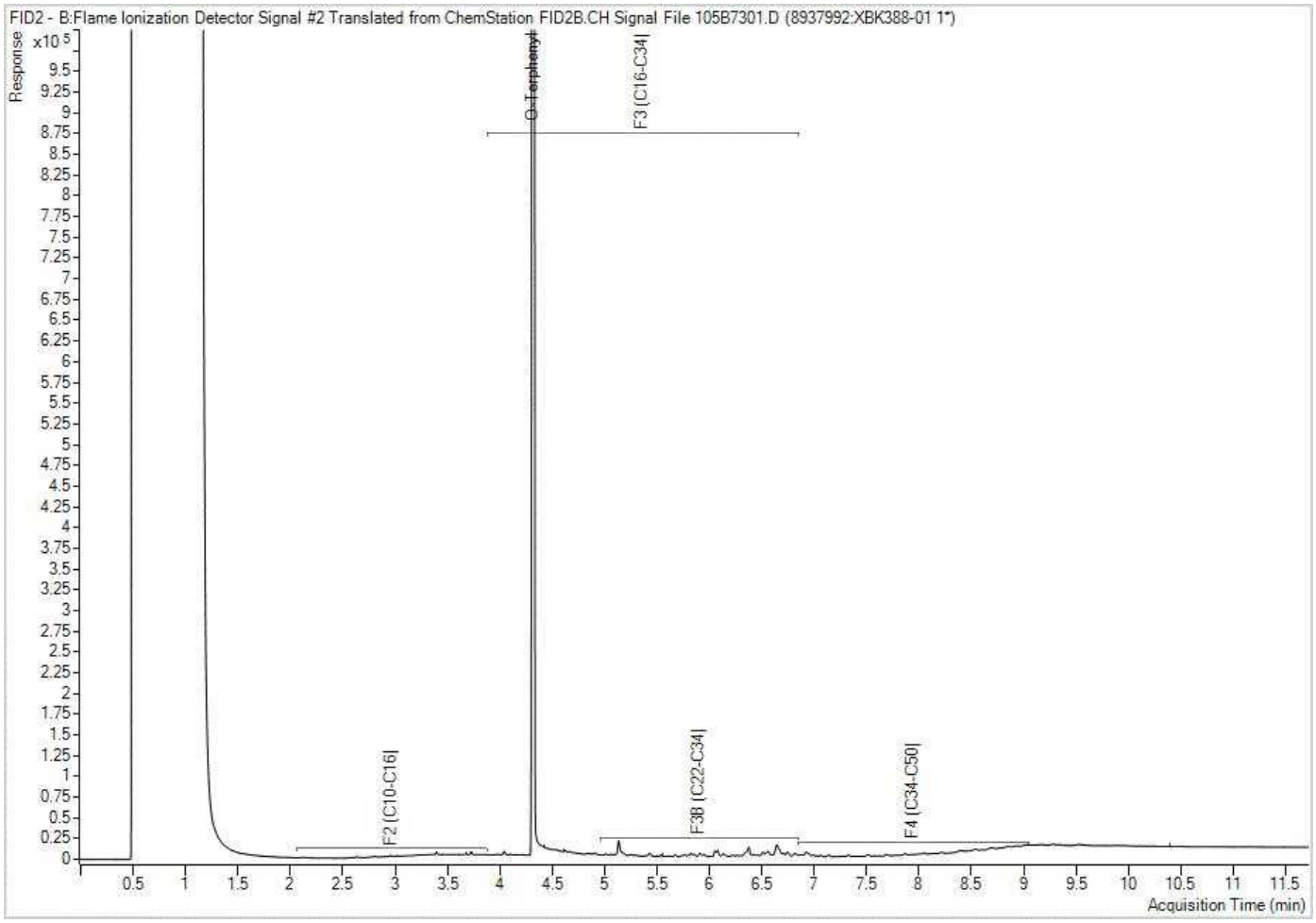


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C3T2887
Report Date: 2023/09/28
Bureau Veritas Sample: XBK388

GHD Limited
Client Project #: 12581540
Client ID: S-12581540-092023-CC-BH119-2-4

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

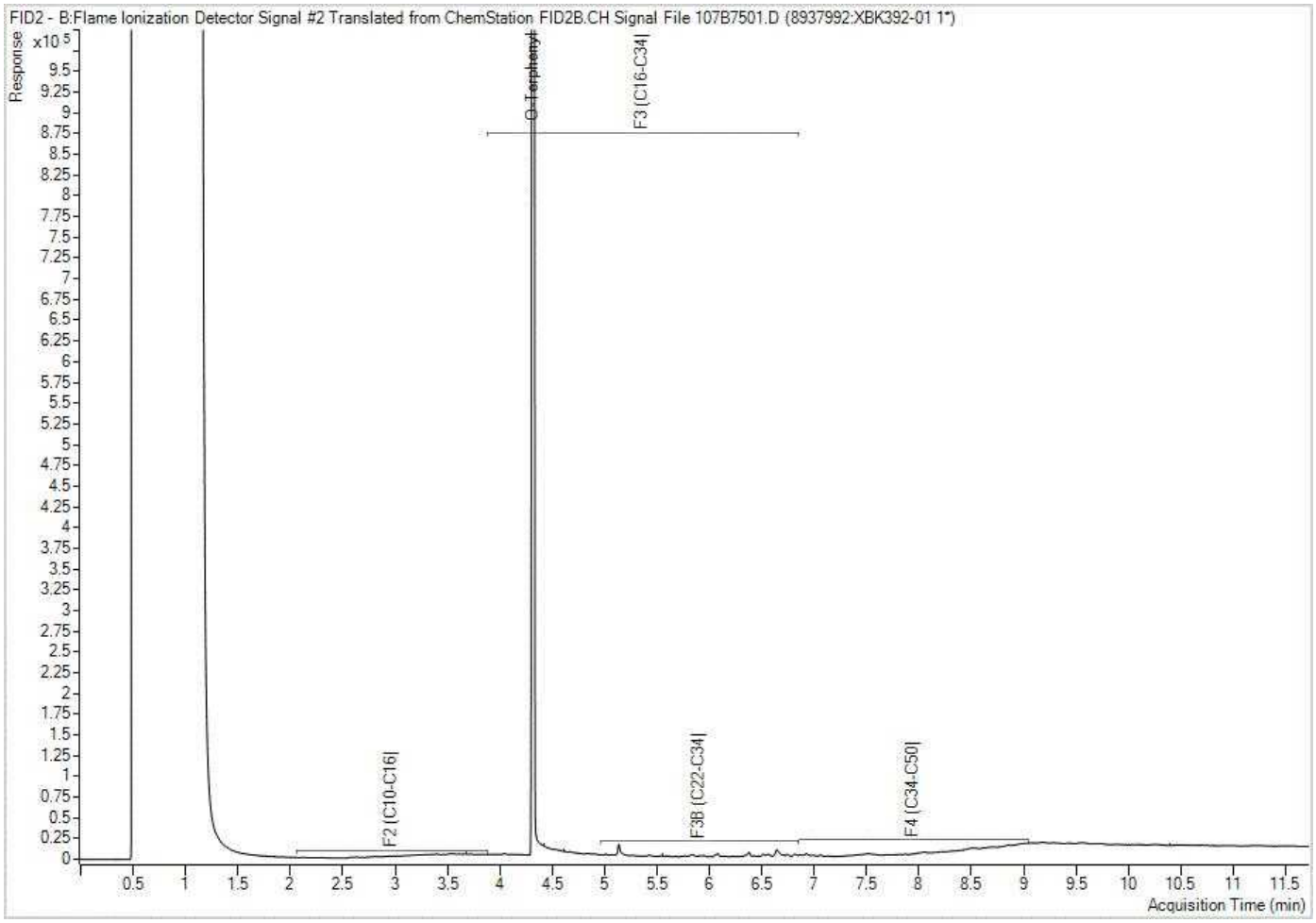


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C3T2887
Report Date: 2023/09/28
Bureau Veritas Sample: XBK392

GHD Limited
Client Project #: 12581540
Client ID: S-12581540-092023-CC-DUP2

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Phase One Environmental Site Assessment

2524 Cawthra Road, Mississauga, Ontario

The Corporation of the City of Mississauga

15 November 2022

→ **The Power of Commitment**

Contents

Figure index

Appendices

1. Executive summary

GHD Limited (GHD) was retained by the Corporation of the City of Mississauga ("Client or City") to conduct a Phase One Environmental Site Assessment (ESA) of a mixed commercial / residential property located at 2524 Cawthra Road, Ontario (herein collectively referred to as the "Site" or "Property"). The Site has been owned by Migus Autowork Limited since 2009. The Site consists of a parcel of land totaling approximately 0.62 hectares (1.5 acres) identified as parcel identification number (PIN): 13345-0060 LT (2524 Cawthra Road).

The Site was first developed in the 1950s and has been utilized for a variety of industrial and commercial purposes including a disposal company (Dicarlo Disposal & Pallet Company), various automotive collision and repair shops, including Migus Autowork Limited, Hawley Collision Centre, Hank's Rentals Sales & Warehouse, and Trillium Sandblasting Ltd., as well as a machinery installation company (Great Lakes Mach Installations). The Site was developed with a storage and automotive garage in the 1960's, with an addition to the garage during the 1980's.

It is GHD's understanding that the Phase One ESA was requested by the City to support the potential acquisition of the Site. The Site is currently being used for automotive repair and residential purposes, and the City may redevelop the Site for use as a fire station. A Record of Site Condition (RSC) is not intended to be filed for the Site.

The purpose of the Phase One ESA was to identify, through a non-intrusive investigation, the existence of any Potentially Contaminating Activities (PCAs) and Areas of Potential Environmental Concern (APECs) associated with the Site. PCAs and APECs are defined in Ontario Regulation 153/04 (O. Reg. 153/04).

Based on the results of the Phase One ESA, including the Site reconnaissance, information provided by Site representatives and regulatory agencies, documents reviewed, the review of Site history, and pending receipt and review of information provided by the MECP, the following APECs were identified to be associated with the Site.

1. **APEC #1 - Fill Quality, Historical Spill, and Historical Waste Management and Disposal (Entire Site):** a) Based on the findings of the Phase One ESA, fill of unknown quality is likely present on Site. b) A historical fire also occurred on Site in 1993 resulting in a release of oily water and confirmed soil impacts. c) The Site has also been used for various industrial/commercial purposes in the past and was occupied by a waste management and disposal company (DiCarlo Disposal & Pallet Company). The following PCAs, as defined by O. Reg. 153/04, were identified to be associated with the entire Site and identified as **APEC #1**:

   a) PCA # 30 – Importation of Fill of Unknown Quality
   b) PCA #A – Historical 1993 release
   c) PCA #58 – Historical Waste Management and Disposal, Including Thermal Treatment, Landfilling and Transfer of Waste, Other Than Use of Biosoils as Soil Conditioners

2. **APEC #2 – Garage Operations, with Oil Water Separator and Above Ground Storage Tank (On-Site):** Based on the findings of the Phase One ESA, the Site was developed with an automotive garage in the 1960's, with an addition to the garage during the 1980's. Historical operations included sandblasting and spray-painting operations. Trench drains, out-of-use in-ground hoists, and an oil/water separator are located within the garage. A waste oil AST is located within a storage container to the north of the exterior wall of the garage. The following PCAs, as defined by O. Reg. 153/04, were identified to be associated with the southwestern portion of the Site and identified as **APEC #2:**

   a) PCA #10 – Commercial Autobody Shops
   b) PCA #28 - Gasoline and Associated Products Storage in Fixed Tanks

3. **APEC #3 – Residential Dwelling with an Above Ground Storage Tank (On-Site):** Access to the residential dwelling was not available at the time of the Site inspection. However, based on a review of the 1997 records identified through OPTA, the residential dwelling was historically heated by fuel oil, which was stored in a 1,137-litre AST located in the basement. Based on discussion with Site personnel, the residential dwelling is reportedly heated by natural gas. The operation of a fuel oil AST on Site was identified as a PCA as defined by O.

Reg. 153/04 (#28 - Gasoline and Associated Products Storage in Fixed Tanks) and the eastern portion of the Site was identified as **APEC #3**.

4. **APEC #4 - 2526 Cawthra Road (Adjacent Property to the East):** Based on the findings of the Phase One ESA, an automotive collision centre is operated at 2526 Cawthra Road, an adjacent property to the east of the Site. The operation of an automotive collision centre to the east of the Site was identified as a PCA as defined by O. Reg. 153/04 (#10 – Commercial Autobody Shop) and the eastern portion of the Site was identified as **APEC #4**.
5. **APEC #5 – 560 Hensall Circle (Adjacent Property to the West):** Based on a review of the ERIS database report, the adjacent property to west was historically occupied by paper and ink manufacturing businesses. In addition, a private 22,700 litre UST was reportedly operated on the property in the past. The historical operations at 560 Hensall Circle were identified as PCAs as defined by O. Reg. 153/04 (PCA #28 – Gasoline and Associated Products Storage in Fixed Tanks, PCA #31 – Ink Manufacturing, Processing and Bulk Storage and PCA #45 – Pulp, Paper and Paperboard Manufacturing and Processing) that have the potential to contribute to an APEC on Site and the western boundary of the Site was identified as **APEC #5**.
6. **APEC #6 – 645 Needham Lane (Adjacent Property to the South):** Based on a review of the ERIS database report and Site observations, the adjacent property to the south of the Site (654 Needham Lane) has been occupied by a plastic manufacturing company (Hinspergers Poly Industries Ltd). Due to the proximity to the Site, the operations on the adjacent property to the south of the Site were identified as a PCA as defined by O. Reg. 153/04 (#43 – Plastics (including Fibreglass) Manufacturing and Processing) that has the potential to contribute to an APEC on the Site and the southern boundary of the Site was identified as **APEC #6**.
7. **APEC #7 – 705&709 Needham Lane (Adjacent Property to the North):** Based on a review of the ERIS database report and Site observations, the adjacent property to the north of the Site (707/709 Needham Lane) was historically occupied by Ryder Truck Centre Due to the proximity to the Site, the operations on the adjacent property to the north of the Site were identified as a PCA as defined by O. Reg. 153/04 (#11 – Commercial Trucking and Container Terminals) that has the potential to contribute to an APEC on the Site and the northern boundary of the Site was identified as **APEC #7**.

2. Introduction

2.1 Phase One ESA Property Information

GHD Limited (GHD) was retained by the Corporation of the City of Mississauga ("Client" or "City") to conduct a Phase One Environmental Site Assessment (ESA) of a mixed commercial / residential property located at 2524 Cawthra Road, Ontario (herein collectively referred to as the "Site" or "Property"). The Site has been owned by Migus Autowork Limited since 2009. The Site consists of a parcel of land totaling approximately 0.62 hectares (1.5 acres) identified as parcel identification number (PIN): 13345-0060 LT (2524 Cawthra Road). A Site Location Map and a Site and Surrounding Properties map are provided on **Figure 1** and **Figure 2**, respectively.

The purpose of the Phase One ESA was to identify, through a non-intrusive investigation, the existence of any Potentially Contaminating Activities (PCAs) and Areas of Potential Environmental Concern (APECs) associated with the Site. PCAs and APECs are defined in Ontario Regulation 153/04 (O. Reg. 153/04). It is GHD's understanding that the Phase One ESA was requested by the City to support a proposed property acquisition of the Site. The Site is currently being used for automotive repair and residential purposes, and the City may redevelop the Site for use as a fire station.

Contact information for the Client representative is as follows.

Katrina MacDonald, P.Eng.
Project Manager, Environmental
The Corporation of the City of Mississauga
Ph: 905 615-3200 ext.3165
katrina.macdonald@mississauga.ca

Contact information for the Property representative is as follows:

Mr. Darek Migus
Owner, Migus Autowork Ltd.
2524 Cawthra Road
Mississauga, Ontario, L5A 2X3
Ph: (705)-994-3998

3. Scope of Investigation

The Phase One ESA was conducted in general accordance with the requirements of Canadian Standards Association (CSA) Standard Z768-01 and in general accordance with Ontario Regulation 153/04, as amended (O. Reg. 153/04). Since this is not a regulatory submission (i.e., a Record of Site Condition is not required at this time), some components of an O. Reg. 153/04 Phase One ESA were excluded, including a legal survey and title search.

The Phase One ESA was conducted by Mr. Brendan Llew-Williams under the supervision of Mr. Bernard Hau and Ms. Julia Serink, Qualified Persons Environmental Site Assessment (QP_{ESA}) as defined in O. Reg. 153/04, as amended. The following tasks were conducted as part of the Phase One ESA:

- Review of an electronic environmental database search of federal, provincial, and private source databases.
- Review of available historical records including fire insurance plans, aerial photographs of the Site and surrounding area, and regional geological information.
- Review of past and current Property usage and adjacent property occupancy.
- Inspection of the facilities, equipment, utility services, operations, and associated records for the Site.
- Observations of any conditions that represented potential environmental concerns.

– Review of chemical use and storage and spill/release incidents.
– Review of aboveground and underground storage tank records.
– Review of waste handling, accumulation, storage, and disposal practices.
– Review of air emissions and wastewater discharges.
– Review of equipment that potentially contains chlorofluorocarbons.
– Review of equipment that potentially contains polychlorinated biphenyls (PCBs).
– Observations of potential asbestos-containing materials.
– Inquiries with regulatory agencies and interviews with persons knowledgeable of the Site and Site operations.

In completing the Phase One ESA, GHD relied on information received from all parties as being accurate unless contradicted by written documentation or field observations.

The following report summarizes the information gathered by GHD during the Phase One ESA and identifies any PCAs, as defined in O. Reg. 153/04, within the Phase One ESA study area as well as any APECs associated with the Site. As required by O. Reg. 153/04, this Phase One ESA also identifies any potential contamination migration pathways and receptors associated with the Property, to the extent that the data compiled allows. The PCAs and APECs identified for the Site are discussed in detail in Section 7.

This Phase One ESA report has been prepared for the use of the Client and may not be relied upon by others without the written consent of GHD and the Client.

4. Records Review

4.1 General

4.1.1 Phase One ESA Study Area Determination

The Phase One ESA study area included all properties located wholly or partially within 250 metres of the boundary of the Site, as required by O. Reg. 153/04. This area has been determined by GHD to be a sufficient study area since the assessment did not identify any properties with known environmental impact or high potential to impact the Site from a distance of greater than 250 metres.

The properties adjacent to the Site were visually inspected, without accessing the properties, for evidence of existing or potential environmental concerns related to the Phase One ESA. GHD also visually inspected all of the properties within the Phase One ESA study area that were visible from the Site or surrounding streets. The following buildings or features were located on the properties surrounding the Site (refer to **Figure 2**).

North: The Site is bounded to the north by a vacant industrial/commercial property formerly occupied by Ryder System Inc. (705 & 709 Needham Lane), and beyond by a railway track, a RONA retail store (650 Dundas Street East), and then Dundas Street East. Based on a review of the historical ERIS records (refer to Section 4.1.3 and **Appendix A**), the RONA retail store was formerly occupied by a lumber company, a home centre, and other commercial/industrial buildings.

East: The Site is bounded to the east by Needham Lane and Hawley Collision Centre (2526 Cawthra Road). Cawthra Road and Franceschini Bros. Aggregates (a division of Lafarge Canada) is located beyond at 2531 Cawthra Road. A motel/shelter is located southeast of the Site.

South: The Site is bounded to the south by Hinspergers Poly Industries (645 Needham Lane), a plastic products manufacturer. A multi-tenant commercial building (2480 Cawthra Road) is located further south of the Site.

West: The Site is bounded to the west by CJ's Skatepark, and CJ Graphics located at 560 Hensall Circle. Based on a review of the historical records, this property was occupied by various paper and ink processing companies, including Iner City Papers Ltd., Unisource Canada Inc., Veritiv, C.J. Graphics Inc. in the past (refer to Section 4.2.2). Commercial/industrial properties on Tedlo Street are located beyond.

Individuals familiar with the Site were not aware of any environmental impacts to the Site attributable to operations conducted on adjacent lands. No visual evidence of environmental impact to the Property from surrounding land uses was observed by GHD at the time of the Site reconnaissance.

Off-Site PCAs that were identified as having the potential to contribute to an APEC are presented on **Figure 4** and discussed further herein.

4.1.2 First Developed Use Determination

Based on a review of historical records and aerial photographs, the Site was developed between 1954 and 1966 with a residential dwelling. The Site was further developed with the construction of a storage and automotive garage in the 1960's, with an addition to the garage built in the 1980's. The Site has been used for various commercial/industrial operations including various automotive repair businesses and a waste disposal business. Prior to the 1954, the Site appeared to be either undeveloped, or utilized as an agricultural property with no visible building structures.

4.1.3 Fire Insurance Plans

Fire insurance information assists in the identification of historical land use and commonly indicate the existence and location of aboveground and underground storage tanks, structures, improvements, and facility operations. An OPTA Information Intelligence (OPTA) search was conducted for any available FIPs that include the area of the Site, and for all available fire insurance information for the Property (i.e., inspection reports and Site plans). OPTA identified FIPs for the Site and surrounding area dated: 1939, and Site specific inspection reports dated 1975, 1982 and 1997. A summary of the pertinent findings is presented below:

- **1939 FIPs**: Based on a review of the 1939 FIP, the Site was undeveloped. No buildings or structures were present on Site. A railway track was located to the north of the Site.
- **1975 Fire Inspection and Rate Calculation Form Report**: Based on a review of the 1975 inspection report, the Site was occupied by an unnamed truck repair shop with occasional spray painting and welding operations. The garage was used to store 100-gallon containers of spray paint for the automotive repair work.
- **1982 Commercial Property Fire Inspection Survey / Fire Rating Form Reports:** Based on a review of the 1982 reports, the Site was occupied by Trillium Sand Blasting Ltd., which was an automotive repair shop. Spray painting operations were conducted at the Site during this time. The reports also indicated that the garage building was heated by natural gas, and that paints, thinners, and reducers were stored on Site.
- **1997 Multirisk Report and Site Plan Report:** Review of the 1997 reports indicate that the Property was occupied by Dicarlo Disposal and Pallet Co. Ltd. (Dicarlo) since 1992. A garage was located at the rear (western) portion of the Site. Automotive repair work (with light parts storage) was conducted in the garage; however, no painting or body work was conducted. The residential dwelling (constructed in the 1950's) on the eastern portion of the Property was used as an office for a disposal company. The automotive garage was heated with natural gas while the residential dwelling was heated by fuel oil. A 1137-litre AST was located in the basement of the residential dwelling. The 1997 Site plan provided a layout of the Site showing the residential dwelling on the eastern portion of the Site, and the automotive garage at the rear (western) portion of the Site. A truck service bay was located in the northern portion of the automotive garage and the southern portion was used for storage.

Specific APECs related to the on-Site operations are discussed in Section 7. A copy of the OPTA documentation is provided in **Appendix B**.

4.1.4 Historical City Directories

Historical city directories generally document the occupants of a municipal address on a yearly basis. A city directory search was conducted by EcoLog Environmental Risk Information Services Ltd. (ERIS) of Polk's Halton Peel Regions Ontario, Criss-Cross Directory. Directories were reviewed for the years available, including 1966, 1971-1972, 1976, 1981, 1986, 1991, 1996, and 2001.

The Site address (2524 Cawthra Road) was listed as follows in the city directories reviewed.

Year	Occupant
2001	Di Carlo Eugenio Disposal & Pallets Co LTD
1996	Di Carlo Eugenio Disposal
1991	No listing
1986	Trillium Sandblasting
1981, 1976	Great Lake Lines
1971-1972	Hank's Rentals Sales & Warehouse
1966	Great Lakes Mach Installation

The following pertinent entities were identified within the Phase One Study Area:

Address	Year(s)	Listed Occupant(s)
709 Needham Lane (north adjacent property)	2001	Ryder Integrated Logistics (CP Rail)
2526 Cawthra Road (east adjacent property)	1966, 1971-1972, 1976, 1981 and 1986	Crestline Auto Body
560 Hensall Circle (west adjacent property)	N/A	No address listed for any years
645 Needham Lane (south adjacent property)	1986, 1991, 1996 and 2001	Hinspergers Poly Industries LTD
2480 Cawthra Road (approximately 80 m southeast of the Site)	1976 1986 1991 2001	Burnhamthorpe Automotive Surf Chemical Co Industrial Plastics Fabricators Lumark Custom Sheet Metal LTD Cawthra Auto Center
2531 Cawthra Road (approximately 105 m east of the Site)	1971-1972, 1976, 1981, 1986, 1991, 1996, 2001	Francesschini Bros Aggregates LTD
650 Dundas Street East (approximately 115 m northwest of the Site)	1986, 1991, 1996 and 2001	Lansing Build-All

Based on the relative distances and/or the inferred cross-gradient locations of the properties at 650 Dundas Street East, 2480 Cawthra Road and 2531 Cawthra Road, the operations on these properties were not considered to contribute to APECs on Site.

The operations on the north (709 Needham Lane), east (2526 Cawthra Road), and south (645 Needham Lane) adjacent properties were identified as having the potential to contribute to APECs on the Site. The PCAs associated with these properties are presented on **Figure 3** and discussed in Section 7.

A copy of the city directory search is presented in **Appendix C**.

4.1.5 Property Chain of Title Records

A title search was not completed as part of the Phase One ESA scope of work in discussion with the City and thus chain of title records were not reviewed as part of this Phase One ESA.

4.1.6 Previous Environmental Reports

No environmental reports were provided to GHD for review during this Phase One ESA.

4.2 Environmental Source Information

4.2.1 Regulatory Review

A freedom of information (FOI) request was submitted by the Client to the Region of Peel. One (1) Complaint/Spill Report was identified for the Site. According to this spill report, approximately 5,000 gallons (approximately 18,930 litres) of oily water was released at the Site due to a rubber fire that happened on February 10, 1993. The oily water was generated from water used to fight the fire. The oily water flowed into the automotive garage where it was eventually contained. This report is included in **Appendix D**.

The MECP was contacted by GHD to provide information regarding any past complaints, violations, and/or MECP directives concerning the Site. No information has been received from the MECP as of the date of this report. Typically, the MECP takes approximately 8 weeks to 12 weeks to process a file search. GHD will forward a copy of the MECP file search under separate cover to Client if the file search identifies any environmental concerns.

The Technical Standards and Safety Authority (TSSA) was contacted by GHD and asked to provide information concerning any licensed retail fuel outlets or registered private fuel outlets located at the Site. TSSA personnel provided e-mail correspondence to GHD dated July 27, 2022, indicating that they did not identify any records to be associated with the Site address.

No other concerns, complaints, notices of violation, or directives of an environmental nature issued against the Site by federal, provincial, or municipal environmental regulatory agencies have been disclosed to GHD.

4.2.2 Environmental Databases Search

An EcoLog Environmental Risk Information Services Ltd. (ERIS) search of available federal, provincial, and private environmental databases was completed as part of this Phase One ESA. Based on the municipal address of the Site, the database searches were completed to assist in the identification of environmental conditions at the Site and on adjacent properties. A summary of the pertinent findings from the database search is provided below. The complete database search report, which also identifies limitations associated with this information, is included in **Appendix A**.

Database	Number of Records	
	Site	Distance from the Site
		0-0.25 km
FEDERAL DATABASES		
Environmental Effects Monitoring (**EEM**)	None	0
Environmental Issues Inventory System (**EIIS**)	None	0

Database	Number of Records	
	Site	Distance from the Site
		0-0.25 km
Federal Convictions (**FCON**)	None	0
Federal Contaminated Sites (**FCS**)	None	0
Fisheries & Oceans Fuel Tanks (**FOFT**)	None	0
Indian & Northern Affairs Fuel Tanks (**IAFT**)	None	0
National Analysis of Trends in Emergencies System (**NATE**)	None	0
National Defence & Canadian Forces Fuel Tanks (**NDFT**)	None	0
National Defence & Canadian Forces Spills (**NDSP**)	None	0
National Defence & Canadian Forces Waste Disposal Sites (**NDWD**)	None	0
National Energy Board Pipeline Incidents **(NEBI)**	None	0
National Environmental Emergencies System (**NEES**)	None	0
National PCB Inventory (**NPCB**)	None	0
National Pollutant Release Inventory (**NPRI**)	None	18
No records were identified in the NPRI database to be associated with the Site address. Eighteen records were identified in the NPRI database to be associated with properties within 250 metres of the Site boundary.		
Parks Canada Fuel Storage Tanks (**PCFT**)	None	0
Transport Canada Fuel Storage Tanks (**TCFT**)	None	0
PROVINCIAL DATABASES		
Aggregate Inventory (**AAGR**)	None	0
Aggregate Inventory (**AGR**)	None	0
Abandoned Mines Information System (**AMIS**)	None	0
Borehole (**BORE**)	None	0
Certificates of Approval (**CA**)	None	5
No records were identified in the CA database to be associated with the Site addresses. Five records were identified in the CA database to be associated with properties within 250 metres of the Site boundary. The records were generally associated with the Certificates of Approval for the release of air, with the exception of the approval for a waste management system at Tri-Phase Environmental Inc. (2446 Cawthra Road, approximately 165 m south of the Site). Based on the relative distance of this property to the Site and location, the operations at 2446 Cawthra Road were not identified as having the potential to contribute to an APEC on the Site.		
Coal Gasification Plants (**COAL**)	None	0
Compliance and Convictions (**CONV**)	None	0
Certificates of Property Use (**CPU**)	None	0
Drill Holes (**DRL**)	None	0
Environmental Activity and Sector Report (**EASR)**	None	3
No records were identified in the EASR database to be associated with the Site. Three records were identified in the EASR database to be associated with properties within 250 metres of the Site. Two of these records were associated with an automotive refinishing facility (Hawley Collision Centre Inc.) located at 2526 Cawthra Road, adjacent to the east of the Site. The third record was associated with a printing facility known as CJ Graphic Inc., located at 560 Hensall Circle, an adjacent property to the west of the Site. The operations on the adjacent properties to the east and west of the Site were identified as having the potential to contribute to an APEC and are further discussed in Section 7.		

Database	Number of Records	
	Site	Distance from the Site
		0-0.25 km
Environmental Registry **(EBR)**	None	3
Environmental Compliance Approval (**ECA**)	None	5
No records were identified in the ECA database to be associated with the Site address. Five records were identified in the ECA database to be associated with properties within 250 metres of the Site boundary. The records were generally associated with Environmental Compliance Approvals for the release of air, with the exception of an approval for a waste management system at Tri-Phase Environmental Inc. (2446 Cawthra Road, approximately 165 m south-east of the Site).		
List of TSSA Expired Facilities **(EXP)**	None	0
Ontario Regulation 347 Waste Generators Summary **(GEN)**	1	76
One record was identified in the Ontario Regulation 347 Waste Generators Summary (GEN) database to be associated with an historical occupant of the Site (E. Dicarlo Disposal & Pallet Co.). The following waste class was identified for years of 1993-1998: Waste Oils & Lubricants (Subject Waste Class 252). 76 records were identified to be associated with properties located within the 250 metres of the Site. Relevant records pertaining to the adjacent properties are discussed below: • Two commercial and retail entities were identified for the east adjacent property located at 2526 Cawthra Road. Entities were identified as a generator of waste oils and lubricants (Subject waste class 252). • Eighteen commercial and retail entities were identified for the western adjacent property located at 560 Hensall Circle (Veritiv, Unisource Canada Inc, Iner City Papers). Entities were identified as generators of various wastes, including inorganic laboratory chemicals (Subject waste class 148), petroleum distillates (Subject waste class 213), oil skimmings & sludge (Subject waste class 251), waste oils & lubricants (Subject waste class 252), organic laboratory chemicals (Subject waste class 263), photoprocessing wastes (Subject waste class 264), acid waste – heavy metals (Subject waste class 112), alkaline wastes – other metals (Subject waste class 122), aliphatic solvents (Subject waste class 212), paints/pigments/coating residues (Subject waste class 145), organic acids (Subject waste class 267), polymeric resins (Subject waste class 232), amines (Subject waste class 268), and waste compressed gases (Subject waste class 331). GEN records strictly identify waste generation sites and not spills or releases related to Subject/Hazardous Wastes. For a complete listing of records, refer to **Appendix A**.		
TSSA Historic Incidents **(HINC)**	None	0
TSSA Incidents (**INC**)	None	0
Landfill Inventory Management Ontario (**LIMO**)	None	0
Mineral Occurrences (**MNR**)	None	0
Non-Compliance Reports (**NCPL**)	None	0
Ontario Inventory of PCB Storage Sites (**OPCB**)	None	0
Ontario Oil and Gas Wells (**OOGW**)	None	0
Orders (**ORD**)	None	0
Pesticide Register **(PES)**	None	7
No records were identified in the PES database to be associated with the Site address. Seven records were identified in the PES database for properties within 250 metres of the Site boundary. All of these records are associated with the retail business located at 650 Dundas Street East (approximately 115 m north of the Site) receiving vendor status.		
TSSA Pipeline Incidents (**PINC**)	None	0
Private and Retail Fuel Storage Tanks **(PRT)**	None	3
No records were identified in the PRT database to be associated with the Site address. Three records were identified in the PRT database for properties within 250 metres of the Site.		

Database	Number of Records	
	Site	Distance from the Site
		0-0.25 km
In one record, Iner City Papers, located at 560 Hensall Circle (adjacent to the west of the Site) was identified as an operator of a private storage tank. The operations at 560 Hensall Circle were identified as having the potential to contribute to an APEC on the Site and are further discussed in Section 7. The remaining records were associated with Franceschini Bros. Aggregates LTD., located at 2531 Cawthra Road (approximately 105 m northeast of the Site). Based on the distance and the location of 2531 Cawthra Road to the Site, the operations at 2531 Cawthra Road were not identified as having the potential to contribute to an APEC on the Site.		
Permit to Take Water (**PTTW**)	None	1
Ontario Regulation 347 Waste Receivers Summary (**REC**)	None	0
Record of Site Condition **(RSC)**	None	0
Ontario Spills **(SPL)**	1	11
One record was identified in the SPL database to be associated with the Site address. This record was associated with a container overflow of oily fire water where soil contamination was confirmed. The property was occupied by E. Dicarlo Disposal & Pallet Co. when this spill occurred in 1993. The historical release on Site was identified as a PCA contributing to an APEC on Site and is further discussed in Section 7. Eleven records were identified in the SPL database to be associated with properties within 250 metres of the Site boundary. No pertinent records were identified that are considered to have the potential to contribute to an APEC on Site.		
Wastewater Discharger Registration Database (**SRDS**)	None	0
Variances for Abandonment of Underground Storage Tanks (**VAR**)	None	0
Waste Disposal Sites - MOE CA Inventory (**WDS**)	None	0
Waste Disposal Sites - MOE 1991 Historical Approval Inventory (**WDSH)**	None	0
Water Well Information System **(WWIS)**	1	5
One record was identified in the WWIS database for the Site. The record indicates that 3 monitoring wells were installed at the Site in 2008. Gravelly fill was found from near-surface to depths ranging from approximately 0.9 mBGS. Native soils underneath the fill material consisted of clay. Shale bedrock was encountered between 3.0 mBGS to 4.5 mBGS and the water table was reported to be at approximately 3.0 mBGS. Based on discussions with Site representatives, no further details are available pertaining to the monitoring wells (see Section 4.3.5). Five (5) records were identified in the WWIS database for properties located within 250 metres of the Site.		
PRIVATE DATABASES		
Anderson's Waste Disposal Sites (**ANDR**)	None	0
Automobile Wrecking & Supplies (**AUWR**)	None	0
Commercial Fuel Oil Tanks (**CFOT**)	None	0
Chemical Register (**CHEM**)	None	0
ERIS Historical Searches **(EHS)**	2	8
Fuel Storage Tank **(FST)**	None	3
No records were identified in the FST database to be associated with the Site address. Three records were identified in the FST database for properties within 250 metres of the Site boundary. • One record was associated with Unisource Canada Inc., located at 560 Hensall Circle (adjacent to the west of the Site). This record indicated that this address contained a 22,700 litre steel UST that was installed in 1980. The operations at 560 Hensall Circle were identified as having the potential to contribute to an APEC on the Site. • The other records were associated with Franceschini Bros. Aggregates LTD., located at 2531 Cawthra Road (approximately 105 m northeast of the Site). Based on the distance of 2531 Cawthra Road to the Site, the operations at 2531 Cawthra Road were not identified as having the potential to contribute to an APEC on the Site.		
Fuel Storage Tank - Historic **(FSTH)**	None	4

Database	Number of Records	
	Site	Distance from the Site
		0-0.25 km
No records were identified in the FSTH database to be associated with the Site addresses. Four records were identified in the FST database for properties within 250 metres of the Site boundary. Two records were associated with Unisource Canada Inc., located at 560 Hensall Circle (adjacent to the west of the Site). This record indicated that this address contained a 22,700 litre steel UST that was installed in 1980. As previously mentioned above, the operations at 560 Hensall Circle were identified as having the potential to contribute to an APEC on the Site. The other two records were associated with Franceschini Bros. Aggregates LTD., located at 2531 Cawthra Road (approximately 105 m northeast of the Site).		
Canadian Mine Locations (**MINE**)	None	0
Oil and Gas Wells (**OGW**)	None	0
Canadian Pulp and Paper (**PAP**)	None	0
Retail Fuel Storage Tanks **(RST)**	None	0
Scott's Manufacturing Directory (**SCT**)	None	42
No records were identified in the SCT database associated with the Site addresses. 42 records were identified to be associated with properties located within the 250 metres of the Site boundary. Relevant records pertaining to the adjacent properties are discussed below: Three records were identified in the SCT database to be associated with the south adjacent property, occupied by Hinsperger Poly Industries LTD. (645 Needham Lane). These records are associated with the production of plastic and textile products and materials. The operations on the south adjacent property were identified as having the potential to contribute to an APEC on the Site.		
Anderson's Storage Tanks (**TANK**)	None	0

GHD also reviewed the list of unplottable properties and identified 70 listings. No relevant listings were identified for the Site.

4.3 Physical Setting

The Site is located in a predominantly mixed commercial/industrial area.

4.3.1 Aerial Photographs

Aerial photographs were reviewed to generally document the development of the Site and properties in the vicinity of the Site, and to identify the existence of any significant areas of actual or potential environmental concern at the Site. Aerial images of the Site and surrounding area were obtained by GHD for the years 1954, 1966, 1975, 1985, 1997, 2007, 2017, and 2020.

1954 Aerial Image: Review of the 1954 aerial image depicts the presence of Cawthra Road and Dundas Street East. The 1954 aerial image also depicts early development of the surrounding properties south-east of Dundas Street East, and north-east of Cawthra Road. The Site appeared to be either undeveloped, or utilized as an agricultural property with no visible building structures. A railway line was also observed at approximately 100 m to the north of the Site.

1966 Aerial Image: Review of the 1966 aerial image indicates the Site was developed with a building (inferred to be the original garage) on the southwestern portion of the Site, and a residential dwelling on the southeastern portion of the Site. Further land and vegetation clearing is visible on Site. Access to the Site appeared to be from Cawthra Road. A structure is depicted north of the Site, located at 2524 Cawthra Road. The property located at the property municipally known as 650 Dundas Street East was also developed for commercial/industrial use.

1975 Aerial Image: Review of the 1975 aerial image indicates that no significant changes had occurred on Site since 1966, with the exception that the exterior areas of the Site appeared to be disturbed. The adjacent property to the

west of the Site had been developed with a large structure (560 Hensall Circle), and further development had occurred north of the Site (south of Dundas Street East).

1985 Aerial Image: Review of the 1985 aerial image indicates that Needham Lane had been constructed east of the Site. An addition to the garage located in the southwestern portion of the Site was visible. Several containers were also visible on Site. The adjacent property to the north of the Site (705 & 709 Needham Lane) was also improved with shipping containers. The adjacent property to the south of the Site (645 Needham Lane) had also been developed.

1997 Aerial Image: Review of the 1997 aerial image indicates that the Site appeared to be occupied by a waste disposal/transfer facility. Several bins were located on Site at this time. Additions to the buildings on the adjacent property to the west of the Site and a new building on the north adjacent property had also been constructed. No other significant changes in land use had occurred on the surrounding land use since 1985.

2007 Aerial Image: Review of the 2007 aerial image indicates that no significant changes in land use on Site or the surrounding lands had occurred since 1997, with the exception that several cars were stored on the exterior portions of the Site.

2017 Aerial Image: Review of the 2017 aerial image indicates that no significant changes in land use on Site or the surrounding lands had occurred since 2007, with the exception that several cars continued to be stored on the exterior portions of the Site.

2020 Aerial Image: Review of the 2020 aerial image indicates that the exterior portions of the Site continued to be occupied by several cars and storage containers. The adjacent property to the north of the Site appeared vacant. No other significant changes in land use on the Site or surrounding lands were noted since 2017.

Copies of reviewed aerial images of the Site are presented in **Appendix D**.

4.3.2 Topography, Hydrology, Geology

Overall, the topographic gradient at the Site gently slopes south towards Lake Ontario. The elevation on Site is approximately 118 metres above mean sea level (mASL) to 125 mASL[1]. The Site is generally flat. Regional topography slopes gradually to the southeast towards Lake Ontario.

No surface water bodies are located on the Site. Lake Ontario is located approximately 4.5 kilometres south of the Property. According to the former monitoring wells installed at the Site, the approximate depth to groundwater was approximately 3.0 mBGS. Based on the general topography, groundwater in the area of the Site is inferred to flow to the south.

A review of quaternary geology for the Site indicates that the Site is located in the broad physiographic region known as Sand Plain[2]. Overburden in the vicinity of the Site consists of glaciolacustrine deposits, which consists of sand, gravelly sand and gravel, nearshore and beach deposits. The bedrock geology in the vicinity of the Site consists of Upper Ordovician Formation, which is predominantly comprised of shale, limestone, dolostone, and siltstone.

Based on a review of the well records identified through ERIS, sandy, silty, and gravely fill was found from near-surface to depths ranging from approximately 0.9 mBGS. Native soils underneath the fill material consisted of clay. Shale bedrock was encountered between 3.0 mBGS to 4.5 mBGS.

Topographic information for the Phase One ESA study area is shown on **Figure 1**. A discussion of water bodies located within the vicinity of the Site is provided in Section 4.3.4. Well records identified within the Phase One ESA study area are discussed in Section 4.3.5.

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[1] Natural Resources Canada (map). "The Atlas of Canada - Toporama", governed by version 2.3 of the Open Government License - Canada. October 19, 2015. < http://atlas.nrcan.gc.ca/toporama/en/index.html>

[2] Chapman, L. J., and D. F., Putnam (1984), "The Physiography of Southern Ontario", Ontario Geological Survey.

4.3.3 Fill Materials

Based on a review of the well records identified through ERIS, sandy, silty, and gravely fill was found from near-surface to depths ranging from approximately 0.9 mBGS. At the time of the Site visit, evidence of fill materials at surface was observed. The presence of fill of unknown quality on Site was identified as a PCA, and the entire Site was identified as an APEC (refer to Section 7).

4.3.4 Water Bodies and Areas of Natural Significance

No surface water bodies are located on the Site.

In accordance with O. Reg. 153/04, an “area of natural significance” is defined as any of the following.

1. An area reserved or set apart as a provincial park or conservation reserve under the Provincial Parks and Conservation Reserves Act, 2006.
2. An area of natural and scientific interest (life science or earth science) identified by the Ministry of Natural Resources and Forestry (MNRF) as having provincial significance.
3. A wetland identified by the MNRF as having provincial significance.
4. An area designated by a municipality in its official plan as environmentally significant, however, expressed, including designations of areas as environmentally sensitive, as being of environmental concern and as being ecologically significant.
5. An area designated as an escarpment natural area or an escarpment protection area by the Niagara Escarpment Plan under the Niagara Escarpment Planning and Development Act.
6. An area identified by the MNRF as a significant habitat of a threatened or endangered species.
7. An area which is a habitat of a species that is classified under Section 7 of the Endangered Species Act, 2007 as a threatened or endangered species.
8. Property within an area designated as a natural core area or natural linkage area within the area to which the Oak Ridges Moraine Conservation Plan under the Oak Ridges Moraine Conservation Act, 2001 applies.
9. An area set apart as a wilderness area under the Wilderness Areas Act.

A summary of GHD’s review is provided below:

1. The Site is not an area reserved or set apart as a provincial park or conservation reserve under the Provincial Parks and Conservation Reserves Act, 2006.
2. The Site is not considered to be an area of natural and scientific interest (life science or earth science) as identified by the MNRF as having provincial significance.
3. The Site is not a wetland identified by the MNRF as having provincial significance.
4. The Site is not designated by a municipality in its official plan as environmentally significant.
5. The Site is not an area designated as an escarpment natural area or an escarpment protection area by the Niagara Escarpment Plan under the Niagara Escarpment Planning and Development Act.
6. The Site and adjacent properties were developed as early as the late 1950s and located within an urban City centre. As such, the Site is not interpreted to represent a habitat of endangered or threatened species.
7. As noted above, the Site is not interpreted to represent a habitat of endangered or threatened species.
8. The Site is not located within an area designated as part of the Oak Ridges Moraine natural core area or natural linkage area to which the Oak Ridges Moraine Conservation Plan under the Oak Ridges Moraine Conservation Act, 2001 applies.
9. The Site is not an area set apart as a wilderness area under the Wilderness Areas Act.

Based on the above information and the definition of area of natural significance provided in O. Reg. 153/04, the Site is not considered to be an area of natural significance.

4.3.5 Well Records

A search of the MECP WWIS database was conducted as a component of the EcoLog ERIS database search outlined in Section 4.2.2. One record was identified in the WWIS database to be associated with the Site address.

According to the record, three monitoring wells were installed on Site in 2008. Sandy, silty, and gravely fill was reportedly found from near-surface to depths ranging from approximately 0.9 mBGS. Native soils underneath the fill material consisted of clay. Shale bedrock was encountered between 3.0 mBGS to 4.5 mBGS.

4.3.6 Site Operating Records

The Site is currently operated by Migus Autowork Ltd., who have been at the Property since 2009. No operating records were provided to GHD.

5. Interviews

As part of the Phase One ESA, GHD conducted a Site interview with the following individual:

Site Personnel	Position	Years Familiar with the Site
Mr. Darek Migus	Owner	13 (2009 – present)

The information provided to GHD by those interviewed was compared to other information sources that were reviewed by GHD. The interviews completed with Site personnel were focused on the historical and current use of the Property, and the topics listed in Sections 13 and 14 of Schedule D of O. Reg. 153/04 (as amended). Relevant information provided to GHD by those interviewed has been summarized in the following sections. No other previous owners or occupants of the Site were available during the Phase One ESA to provide information concerning the historical operations conducted at the Property.

6. Site Reconnaissance

6.1 General Requirements

Mr. Brendan Llew-Williams and Ms. Julia Serink of GHD completed a Site reconnaissance of the Property on May 2, 2022. The Site reconnaissance included a walk-through of the Property to confirm the current Site conditions and identify any current land uses, which may have or may cause actual and/or potential environmental impacts to the Site. Adjoining and neighbouring properties were observed from the Site and public access ways.

The Site inspection was completed from approximately 14:00 to 15:30. Weather conditions during the Site visit were cloudy with an ambient air temperature of approximately 10°C.

GHD was accompanied by Mr. Migus during the Site reconnaissance. Ms. MacDonald was also present on Site during the Site inspection. Access to the residential dwelling on Site was not available at the time of the Site inspection.

Photographs of the Site are included in **Appendix E**.

6.2 Specific Observations at Phase One ESA Property

6.2.1 Building and Property

The Site is located in an area of the City of Mississauga developed primarily for commercial and industrial use. The Site consists of a parcel of land totaling approximately 0.62 hectares (1.5 acres). An automotive garage, approximately 450 square metres in size is located in the southwest corner of the Property and a residential dwelling (approximate 120 square metres in size) is located in the southeast corner of the Property. The Site is identified as parcel identification number (PIN): 13345-0060 LT (2524 Cawthra Road).

The Site can be accessed via an entrance of Needham Lane. The exterior portions of the Site are largely gravel covered or consist of exposed soil. A landscaped area is located in close proximity to the residential dwelling and an asphalt paved area is located on the northeastern portion of the Site. Several derelict and out of use cars, and miscellaneous supplies and tires, are stored throughout the central and western portions of the Site. Several storage containers and trailers are also located throughout the Site. According to Site representatives, the storage containers are used for the storage of miscellaneous car parts, car body parts, tires and furniture. A representative number of storage containers were inspected by GHD at the time of the Site inspection. The exterior portions of the Site (with the exception of the extreme eastern portion of the Site, in proximity to the residential dwelling) are fenced and/or brush covered.

The automotive garage includes garage four existing garage bays. Bay doors are located on the northern and eastern sides of the building. One of the bay doors on the eastern side of the garage appears to have been removed. An office and mezzanine office area/washrooms are located in the southeastern portion of the garage. A two-storey storage area is located in the western portion of the building.

Based on a review of historical records and aerial photographs, the Site was developed between 1954 and 1966 with a residential dwelling. The Site was further developed with an automotive garage in the 1960's, with an addition to the garage during the 1980's.

6.2.2 Current/Historic Site Operations

Based on a review of historical records, business operations formerly conducted at the Site are detailed below.

2524 Cawthra Road (PIN 13345-0060 LT)

Review of the 1997 property records indicates that the residential building was developed with a single storey wood frame (metal clad) building with a basement. The automotive garage was developed in the 1970's with a single storey concrete block structure, and a steel deck class II roof. An extension was built onto the northern portion of the automotive garage in the early 1980's.

The Site address (2524 Cawthra Road) has been occupied by the following occupants.

Year	Entity
2009 – present	Migus Autowork Ltd.
Early 2000s – 2009	CNS Hawley Collision Centre
1993 – 2001	Di Carlo Eugenio Disposal & Pallets Co. Ltd.
1982 – 1986	Trillium Sandblasting
1976 – 1981	Great Lake Lines
1971 – 1972	Hank's Rentals Sales & Warehouse
1966	Great Lakes Mach Installation

6.2.3 Utility Services

According to Site personnel, the Site obtains potable water from the municipal service. The Site is also serviced with municipal sewer services. According to Site personnel, the automotive garage is serviced with an oil/water separator that is connected to the municipal system. The liquids are processed through the oil/water separator are reportedly pumped to a pump house located to the west of the residential dwelling, and subsequently pumped to the municipal service present along Needham Lane.

The Site is serviced with natural gas. The automotive garage is heated by natural-gas fired suspended heaters. Access to the residential dwelling was not available at the time of the Site inspection. However, based on a review of the 1997 records identified through OPTA, the residential dwelling was historically heated by fuel oil, which was stored in a 1137-litre AST located in the basement. Based on discussion with Site personnel, the residential dwelling is reportedly heated by natural gas.

According to Site personnel, no septic systems are known to have been present on the Site. No evidence of septic systems was observed by GHD during the Site reconnaissance.

6.2.4 Underground Storage Tanks (USTs)

Based on the Site reconnaissance, no evidence of current or historical USTs were observed at the Site. Site personnel reported that no USTs have been operated on Site to the best of their knowledge.

6.2.5 Above Ground Storage Tanks (ASTs)

At the time of the Site inspection, two ASTs were located on Site. An out of use 500-litre AST was located on the northwestern portion of the property in the exterior yard. Based on discussions with Site personnel, the AST was historically located within the southern portion of the garage and used to store new oil. However, the AST was taken out of service a few years ago and stored outside. An active 500-litre steel AST used for the storage of waste oil is located within a storage container located directly adjacent to the north exterior wall of the garage. According to Site personnel, the AST has been operated in its current location for a number of years. The AST locations are presented on **Figure 4**. Based on discussions with Site personnel, to the best of their knowledge, no other ASTs are known to have been operated on Site in the past.

6.2.6 Floor Drains, Pits, and Sumps

Trench drains are operated in the garage building. The trench drains are reportedly connected to an oil/water separator located within the interior portion of the southeastern portion of the garage building. The trench drains are located along the northern interior wall of the building and the southcentral portion of the garage.

During the Site visit, two out-of-use in-ground hoists were observed in the northern portion of the garage. Site personnel were not aware if the in-ground components (and oil in the pistons) had been removed. Based on Site observations, the in-ground components of the hoists may still be present.

6.2.7 Wastewater/Sewers

An underground oil water separator was located on the eastern corner of the automotive garage, and was connected to the garage trench system. Vent pipes associated with the oil water separator were observed on the eastern portion of the automotive garage. Based on information gained from the interview with the Site owner, the oil water separator connects to the pump house located south of the residential dwelling, and ultimately drains into the municipal wastewater system.

According to Site personnel, the toilets and sinks located in the automotive garage, and in the residential dwelling also discharged to the City of Mississauga's municipal sanitary sewer system.

6.2.8 Stormwater/Surface Water

Based on discussions with Site personnel, review of historical information, and Site observations, no stormwater/surface water drainage system comprised of catch basins and underground infrastructure is in place. Any surface water generated on Site is directed to the ground and infiltrates the ground surface.

No sources of adverse impact to stormwater generated at the Site were observed by GHD during the Site reconnaissance. Site personnel were unaware of any potential sources of stormwater impact to the Site.

6.3 Enhanced Investigation Property

The Phase One ESA property is considered to be an Enhanced Investigation property if it is currently used or has ever been used in whole or in part for industrial use, or commercial uses including a garage, a bulk liquid dispensing facility such as a gas station, or for the operation of dry-cleaning equipment.

Based on a review of historical records, the Site is considered to be an Enhanced Investigation property. All reasonable inquiries were made to obtain and review the following material with respect to the former use of the Site:

– Regulatory permits and records related to areas of potential environmental concern.
– Material safety data sheets (not available).
– Underground utility drawings (not available).
– Inventories of chemicals, chemical usage and chemical storage areas (documented in 6.3.4 and 6.3.5).
– Inventory of USTs and ASTs (documented in 6.2.4 and 6.2.5).
– Environmental monitoring data (not available).
– Waste management records (documented in 6.3.5).
– Process, production and maintenance documents (not available).
– Records of spills and discharges of contaminants (documented in 6.3.6).
– Emergency response and contingency plans (not available).
– Environmental audit reports (not available).

6.3.1 Asbestos-Containing Materials (ACM)

Based on the Site reconnaissance, ACMs may be present on Site due to the age of the buildings and the storage containers/trailers present on Site.

6.3.2 Polychlorinated Biphenyls (PCBs)

According to Site personnel, no PCB-containing equipment is currently used, stored, or handled at the Site. Site personnel also reported that no PCB wastes are stored at the Site. No evidence of PCB waste storage was observed by GHD at the time of the Site reconnaissance.

6.3.3 Solid Waste/Recyclable Materials

According to Site reconnaissance and Site personnel, various forms of soil waste materials are store and produced on Site. These materials include metal cuttings, grindings, and chips, scrap metal, oil filters, general refuse, sludge/washdown sediments (stored in the oil water separator), empty drums, used tires, and pallets. The exterior portions of the Site are used for general storage. Metal cuttings/grindings/chips, oil filters and general refuse are stored in designated containers located within the interior of the garage or in close proximity to the garage building adjacent to the eastern exterior wall.

6.3.4 Chemical and Raw Material Use and Storage

Based on discussions with Site personnel, compressed gases and petroleum oils are currently used or stored at the Site. These materials are generally stored in manufactured supplied containers within the interior of the garage. At the time of the Site reconnaissance, evidence of minor release/staining was observed on the concrete floor of the garage.

6.3.5 Subject Waste/Hazardous Waste

Based on the findings of the EcoLog ERIS database search outlined in Section 5.2.2, one record was identified in the Ontario Regulation 347 Waste Generators Summary (GEN) database to be associated with the Site.

The following waste classes were identified for 2524 Cawthra Road for the years of 1993-1998 (E. DiCarlo Disposal & Pallet Co.), which included:

– Waste Oils & Lubricants (Subject Waste Class 252).

Based on discussions with Site personnel, liquid wastes generated on Site currently include waste oil, which is stored in an AST located within a storage unit north of the garage, and clean-out sediments/sludge associated with the trench drains and oil/water separator. Site personnel were not aware of the volume of liquid waste that is generated in a given year but indicated that the AST and oil/water separator are emptied on an occasional basis.

6.3.6 Chemical Spills/Releases

During the Site reconnaissance, minor staining was observed on the concrete floor of the garage building. Site personnel indicated that they were not aware of any significant spills/releases on Site. A review of the Ontario Spills database included in the Ecolog ERIS report and information provided through the Region of Peel, indicate that a spill occurred on Site in 1993.

Based on a review of the records, approximately 5,000 gallons (approximately 18,930 litres) of oily water was released on Site in 1993 during a rubber fire that occurred on February 10, 1993. The oily water was generated from water used to fight the fire. The oily water reportedly flowed into the automotive garage where it was eventually contained. Soil contamination was reportedly confirmed. No further details were obtained regarding the 1993 release at the time of the Phase One ESA.

6.3.7 Lead-Based Paint

The amount of lead in interior paint has been regulated since 1976 through Health Canada's Hazardous Products Act. The buildings on the property were built prior to 1976 so it is possible that lead-based paint is present on Site.

6.3.8 Chlorofluorocarbons (CFCs)

Based on discussions with Site personnel and observations made by GHD during the Site reconnaissance, no equipment containing CFCs is currently operated or stored at the Site. GHD did not have access to the residential dwelling during the Site reconnaissance visit.

6.3.9 Air Emissions

Based on GHD observations and discussion with Site personnel, GHD identified a fume system in the garage that was used to release car emissions. Based on a review of historical FIPs and Site personnel interview, historical air emission sources present at the Site were limited natural gas-fired comfort heating equipment and the fuming system for the garage. Other air emission sources operated at the Site may include the heating and ventilation system associated with the residential dwelling. As previously mentioned, GHD did not have access to the residential dwelling during the Site reconnaissance visit.

6.3.10 Ionizing Radiation

At the time of the Site reconnaissance, no sources of ionizing radiation were observed by GHD at the Site.

6.4 Written Description of Investigation

The Phase One ESA included a records review, interviews with Site personnel, a Site reconnaissance, and a review and evaluation of the information obtained during the Phase One ESA. The Site reconnaissance included a walk-through of the Property to confirm the current Site conditions and identify any current land uses, which may have or may cause actual and/or potential environmental impacts to the Site. Adjoining and neighbouring properties were observed from the Site and public access ways. As previously mentioned, GHD did not have access to the residential dwelling located on the eastern portion of the Site during the Site reconnaissance visit.

The findings from the assessment carried out pursuant to Sections 13 and 14 of Schedule D of O. Reg. 153/04, as amended, were previously discussed in Section 6.0.

7. Review and Evaluation of Information

7.1 Current and Past Uses

Based on a review of historical records and aerial photographs, the Site was developed between 1954 and 1966 with a residential dwelling. The Site was further developed with an automotive garage in the 1960's, with an addition to the garage during the 1980's. The Site has been utilized for commercial and industrial uses including automotive shops, a machinery installation shop, and for waste disposal business. Prior to the 1954, the Site appeared to be either undeveloped, or utilized as an agricultural property with no visible structures. The Site is currently occupied by an automotive garage and a residential dwelling.

A summary of the current and past uses for the Site is provided below.

Table of Current and Past Uses of the Phase One Property
Phase One Environmental Site Assessment
2524 Cawthra Road, Mississauga, Ontario
(Refer to clause 16(2)(b), Schedule D, O.Reg. 153/04)

Year	Name of Occupant(s)	Description of Property Use	Property Use	Other Observations from Aerial Photographs, Fire Insurance Plans, etc.
2524 Cawthra Road				
Prior to 1954	Unknown	Agricultural or Other	Undeveloped / agricultural purposes	Based on available aerial photographs, the Site appeared to be undeveloped, or utilized as an agricultural property with no visible structures.
1954 to 1993	Various occupants, including Great Lakes Mach Installation, Hank's Rentals Sales & Warehouse, Trillium Sandblasting	Mixed Commercial/Industrial/ Residential	Commercia/ Industrial	A review of the property inspection reports indicates that the residential dwelling on the Site was developed sometime in the 1950's and was heated by fuel oil stored in an AST. Available aerial photographs, city directories search and property inspection records indicated that the Site was occupied by an automotive repair shop located on the western portion of the Site with spray painting operations.
1993 – 2001	Di Carlo Eugenio Disposal & Pallets Co. Ltd.	Mixed Commercial/Industrial/ Residential	Commercia/ Industrial	A review of the City Directory search, the ERIS historical records, and the 1997 property inspection records indicate that the Site was occupied by the Di Carlo Eugenio Disposals & Pallets Co. Ltd. between 1993 – 2001, with an automotive repair shop. The ERIS historical records revealed that a spill occurred on Site in1993 where soil contamination was confirmed.
2001 – Present	Various occupants, including CNS Hawley Collision Centre and Migus Autowork Ltd.	Mixed Commercial/Industrial/ Residential	Commercia/ Industrial	Based on discussions with Site personnel, the Site was occupied by CNS Hawley Collision Centre sometime during the early 2000's, prior to selling the Site to the current owner (Migus Autowork Ltd.) in 2009.

7.2 Potentially Contaminating Activity

The MECP provides a list of PCAs in Schedule D of O. Reg. 153/04, under the Environmental Protection Act. PCAs that have been identified to be on, in, or under the Phase One ESA Property, or located within the Phase One ESA study area and having the potential to contribute to an APEC are presented in Section 7.3.

7.3 Areas of Potential Environmental Concern

The following areas of actual or potential environmental concern have been identified by the Phase One ESA site reconnaissance and records review and are summarized in the table below. This table is used to list and describe each potentially contaminating activity at the Property and each potentially contaminating activity in the Phase One study area that may be contributing to an APEC at the Property

Table of Areas of Potential Environmental Concern
Former Commercial/Industrial Property
2524 Cawthra Road, Mississauga, Ontario
(Refer to clause 16(2)(a), Schedule D, O. Reg. 153/04)

Area of Potential Environmental Concern[1]	Location of Area of Potential Environmental Concern on Phase One Property	Potentially Contaminating Activity[2]	Location of PCA (on-Site or off-Site)	Contaminants of Potential Concern[3]	Media Potentially Impacted (Ground Water, Soil and/or Sediment)
APEC #1 : Site Wide a) Fill Material of Unknown Quality b) b) Historical Spill, and c) c)Historical Waste Management and Disposal Company Operations	Entire Site	#30 – Importation of Fill Material of Unknown Quality #58 – Waste Disposal and Waste Management Including Thermal Treatment, Landfilling and Transfer of Waste, other than use of Biosoils as Soil Conditioners #A – Historical Spill on Site	On-Site	VOCs, PHCs, PAHs, metals and inorganics, PCBs	Soil and Groundwater
APEC #2: On-Site Garage Operations (including in-ground hoists, trench drains, oil/water separator, and chemical storage, ASTs)	Automotive Garage and surrounding area (southwestern portion of the Site)	#10 – Commercial Autobody Shop #28 – Gasoline and Associated Products Storage in Fixed Tanks	On-Site	VOCs, PHCs, PAHs, metals & inorganics	Soil and Groundwater
APEC #3: Fuel Oil Storage Tank (Residential Dwelling)	Residential dwelling (eastern portion of the Site)	#28 - Gasoline and Associated Products Storage in Fixed Tanks	On-Site	PHCs, BTEX	Soil
APEC #4: 2526 Cawthra Road (Adjacent Property to the east) Automotive Collision Centre	Eastern portion of the Site	#10 – Commercial Autobody Shop	Off-Site	VOCs, PHCs	Groundwater
APEC #5: 560 Hensall Circle (Adjacent Historical Property to the west) – Fuel Outlet with Storage Tanks and Historical Paper and Ink Processing Facility	Western portion of the Site	#28 - Gasoline and Associated Products Storage in Fixed Tanks #31 - Ink Manufacturing, Processing and Bulk Storage #45 – Pulp, Paper, and Paperboard Manufacturing and Processing	Off-Site	VOCs, PHCs, PAHs, metals & inorganics	Groundwater

Area of Potential Environmental Concern[1]	Location of Area of Potential Environmental Concern on Phase One Property	Potentially Contaminating Activity[2]	Location of PCA (on-Site or off-Site)	Contaminants of Potential Concern[3]	Media Potentially Impacted (Ground Water, Soil and/or Sediment)
APEC #6: 645 Needham Lane (Adjacent Property to the south) Plastic Manufacturing	Southern portion of the Site	#43 – Plastics (Including Fiberglass) Manufacturing and Processing	Off-Site	VOCs, PHCs, PAHs, metals & inorganics	Groundwater
APEC #7: 705&709 Needham Lane (Historical Trucking & Container Storage)	Northern portion of the Site	#11 – Commercial Trucking and Container Terminals	Off-Site	PHCs, BTEX, PAHs, metals & inorganics	Groundwater

Notes:

1 APEC means the area on, in or under a phase one property where one or more contaminants are potentially present, as determined through the phase one environmental site assessment, including through:
(a) Identification of past or present uses on, in or under the phase one property.
(b) Identification of potentially contaminating activity.
2 PCA means a use or activity set out in Column A of Table 2 of Schedule D that is occurring or has occurred in a phase one study area.
3 When completing this column, identify all contaminants of potential concern using the Method Groups as identified in the "Protocol for Analytical Methods in the Assessment of Properties under Part XV.1 of the Environmental Protection Act, March 9, 2004, amended as of July 1, 2011, as specified below.

Contaminants of Concern (COCs)						
Acids, Base and Neutrals (ABNs)	Polychlorinated Biphenyls (PCBs)	Metals	Electrical Conductivity	Sodium Adsorption Ratio (SAR)	Chloride Ion (Cl-)	Organochlorine pesticides (OCs)
Chlorophenols (CPs)	Polycyclic aromatic hydrocarbons (PAHs)	Arsenic (As), Antimony (Sb), Selenium (Se)	Hexavalent Chromium (Cr (VI))	High pH	Cyanide (CN-)	Petroleum hydrocarbons (PHCs)
1,4-Dioxane	Trihalomethanes (THMs)	Sodium (Na)	Mercury (Hg)	Low pH	benzene, toluene, ethylbenzene and xylene (BTEX)	
Dioxins/Furans, Polychlorinated dibenzodioxins (PCDDs)/ Polychlorinated dibenzofurans (PCDFs)	Volatile organic compounds (VOCs)	Boron hot-water soluble (B-HWS)	Methyl Mercury		Calcium (Ca), Magnesium (Mg)	

7.4 Phase One Conceptual Site Model

The Site is located in an area of the City of Mississauga developed primarily for commercial and industrial use. The Site consists of a parcel of land totaling approximately 0.62 hectares (1.5 acres). An automotive garage, approximately 450 square metres in size is located in the southwest corner of the Property and a residential dwelling (approximate 120 square metres in size) is located in the southeast corner of the Property. The Site is identified as parcel identification number (PIN): 13345-0060 LT (2524 Cawthra Road).

The Site can be accessed via an entrance of Needham Lane. The exterior portions of the Site are largely gravel covered or consist of exposed soil. A landscaped area is located in close proximity to the residential dwelling and an asphalt paved area is located on the northeastern portion of the Site. Several derelict and out of use cars and miscellaneous supplies and tires are stored throughout the central and western portions of the Site. Several storage containers and trailers are also located throughout the Site. According to Site representatives, the storage containers are used for the storage of miscellaneous car parts, car body parts, tires, and furniture. The exterior portions of the Site (with the exception of the extreme eastern portion of the Site, in proximity to the residential dwelling) are fenced and/or brush covered.

Based on a review of historical records and aerial photographs, the Site was developed between 1954 and 1966 with a residential dwelling. The Site was further developed with the addition of a storage and automotive garage in the 1960's, with an addition to the garage during the 1980's. The Site was utilized for commercial and industrial use including automotive shops, a machinery installation shop, and for waste disposal. Prior to the 1954, the Site appeared to be either undeveloped, or utilized as an agricultural property with no visible building structures.

The Site obtains potable water from the municipal service. The Site is also serviced with municipal sewer services. According to Site personnel, the automotive garage is serviced with an oil/water separator that is connected to the municipal system. The liquids are processed through the oil/water separator are reportedly pumped to a pump house located to the west of the residential dwelling, and subsequently pumped to the municipal service present along Needham Lane. The following subsurface structures and utilities that may affect contaminant distribution and transport on Site included the following dating back to the early development of the Site: utility corridors (including the service for the oil/water separator), abandoned utility conduits, and underground infrastructure (including the oil/water separator system, trench drains and underground hoists servicing the garage).

The Site has been used for various commercial/industrial operations including various automotive repair businesses and a waste disposal business. Prior to the 1954, the Site appeared to be either undeveloped, or utilized as an agricultural property with no visible building structures. Based on a review of historical records, the Site occupants have included the following:

Year	Entity
2009 – present	Migus Autowork Ltd.
NA – 2009	CNS Hawley Collision Centre
1993 – 2001	Di Carlo Eugenio Disposal & Pallets Co. Ltd.
1982 – 1986	Trillium Sandblasting
1976 – 1981	Great Lake Lines
1971 – 1972	Hank's Rentals Sales & Warehouse
1966	Great Lakes Mach Installation

The topographic gradient at the Site gently slopes southerly towards Lake Ontario. The elevation on Site is approximately 118 mASL to 125 mASL[3]. The Site is generally flat with very little slope present. Regional topography slopes gradually to the south towards Lake Ontario.

No surface water bodies are located on the Site. Lake Ontario is located approximately 4.5 kilometres south-east of the Property.

A review of quaternary geology for the Site indicates that the Site is located in the broad physiographic region known as Sand Plain[4]. Overburden in the vicinity of the Site consists of glaciolacustrine deposits, which consists of sand, gravelly sand and gravel, nearshore and beach deposits. The bedrock geology in the vicinity of the Site consists of Upper Ordovician Formation, which is predominantly comprised of shale, limestone, dolostone, and siltstone.

Based on a review of the well records identified through ERIS, sandy, silty, and gravely fill was found from near-surface to depths ranging from approximately 0.9 mBGS. Native soils underneath the fill material consisted of clay. Shale bedrock was encountered between 3.0 mBGS to 4.5 mBGS.

Based on the above information and the definition of area of natural significance provided in O. Reg. 153/04, the Site is not considered to be an area of natural significance.

The Phase One Conceptual Site Model is shown on **Figure 4.**

8. Conclusions

Based on the results of the Phase One ESA, including the Site reconnaissance, information provided by Site representatives and regulatory agencies, documents reviewed, the review of Site history, and pending receipt and review of information provided by the MECP, the following APECs were identified to be associated with the Site.

8. **APEC #1 - Fill Quality, Historical Spill, and Historical Waste Management and Disposal (Entire Site):** a) Based on the findings of the Phase One ESA, fill of unknown quality is likely present on Site. b) A historical fire also occurred on Site in 1993 resulting in a release of oily water and confirmed soil impacts. c) The Site has also been used for various industrial/commercial purposes in the past and was occupied by a waste management and disposal company (DiCarlo Disposal & Pallet Company). The following PCAs, as defined by O. Reg. 153/04, were identified to be associated with the entire Site and identified as **APEC #1**:

    a) PCA # 30 – Importation of Fill of Unknown Quality
    b) PCA #A – Historical 1993 release
    c) PCA #58 – Historical Waste Management and Disposal, Including Thermal Treatment, Landfilling and Transfer of Waste, Other Than Use of Biosoils as Soil Conditioners

9. **APEC #2 – Garage Operations, with Oil Water Separator and Above Ground Storage Tank (On-Site):** Based on the findings of the Phase One ESA, the Site was developed with an automotive garage in the 1960's, with an addition to the garage during the 1980's. Historical operations included sandblasting and spray-painting operations. Trench drains, out-of-use in-ground hoists, and an oil/water separator are located within the garage. A waste oil AST is located within a storage container to the north of the exterior wall of the garage. The following PCAs, as defined by O. Reg. 153/04, were identified to be associated with the southwestern portion of the Site and identified as **APEC #2:**

    a) PCA #10 – Commercial Autobody Shops
    b) PCA #28 - Gasoline and Associated Products Storage in Fixed Tanks

[3] Natural Resources Canada (map). "The Atlas of Canada - Toporama", governed by version 2.3 of the Open Government License - Canada. October 19, 2015. < http://atlas.nrcan.gc.ca/toporama/en/index.html>

[4] Chapman, L. J., and D. F., Putnam (1984), "The Physiography of Southern Ontario", Ontario Geological Survey.

10. **APEC #3 – Residential Dwelling with an Above Ground Storage Tank (On-Site):** Access to the residential dwelling was not available at the time of the Site inspection. However, based on a review of the 1997 records identified through OPTA, the residential dwelling was historically heated by fuel oil, which was stored in a 1,137-litre AST located in the basement. Based on discussion with Site personnel, the residential dwelling is reportedly heated by natural gas. The operation of a fuel oil AST on Site was identified as a PCA as defined by O. Reg. 153/04 (#28 - Gasoline and Associated Products Storage in Fixed Tanks) and the eastern portion of the Site was identified as **APEC #3**.

11. **APEC #4 - 2526 Cawthra Road (Adjacent Property to the East):** Based on the findings of the Phase One ESA, an automotive collision centre is operated at 2526 Cawthra Road, an adjacent property to the east of the Site. The operation of an automotive collision centre to the east of the Site was identified as a PCA as defined by O. Reg. 153/04 (#10 – Commercial Autobody Shop) and the eastern portion of the Site was identified as **APEC #4**.

12. **APEC #5 – 560 Hensall Circle (Adjacent Property to the West):** Based on a review of the ERIS database report, the adjacent property to west was historically occupied by paper and ink manufacturing businesses. In addition, a private 22,700 litre UST was reportedly operated on the property in the past. The historical operations at 560 Hensall Circle were identified as PCAs as defined by O. Reg. 153/04 (PCA #28 – Gasoline and Associated Products Storage in Fixed Tanks, PCA #31 – Ink Manufacturing, Processing and Bulk Storage and PCA #45 – Pulp, Paper and Paperboard Manufacturing and Processing) that have the potential to contribute to an APEC on Site and the western boundary of the Site was identified as **APEC #5**.

13. **APEC #6 – 645 Needham Lane (Adjacent Property to the South):** Based on a review of the ERIS database report and Site observations, the adjacent property to the south of the Site (654 Needham Lane) has been occupied by a plastic manufacturing company (Hinspergers Poly Industries Ltd). Due to the proximity to the Site, the operations on the adjacent property to the south of the Site were identified as a PCA as defined by O. Reg. 153/04 (#43 – Plastics (including Fibreglass) Manufacturing and Processing) that has the potential to contribute to an APEC on the Site and the southern boundary of the Site was identified as **APEC #6**.

14. **APEC #7 – 705&709 Needham Lane (Adjacent Property to the North):** Based on a review of the ERIS database report and Site observations, the adjacent property to the north of the Site (707/709 Needham Lane) was historically occupied by Ryder Truck Centre Due to the proximity to the Site, the operations on the adjacent property to the north of the Site were identified as a PCA as defined by O. Reg. 153/04 (#11 – Commercial Trucking and Container Terminals) that has the potential to contribute to an APEC on the Site and the northern boundary of the Site was identified as **APEC #7**.

8.1 Requirement for Phase Two ESA before RSC can be Submitted

Based on the information obtained in completing the Phase One ESA, a Phase Two ESA is recommended to address the identified APECs at the Site. It is GHD's understanding that the Phase One ESA was completed to document environmental conditions at the Site, and to support a proposed property acquisition of the Site.

All of Which is Respectfully Submitted,

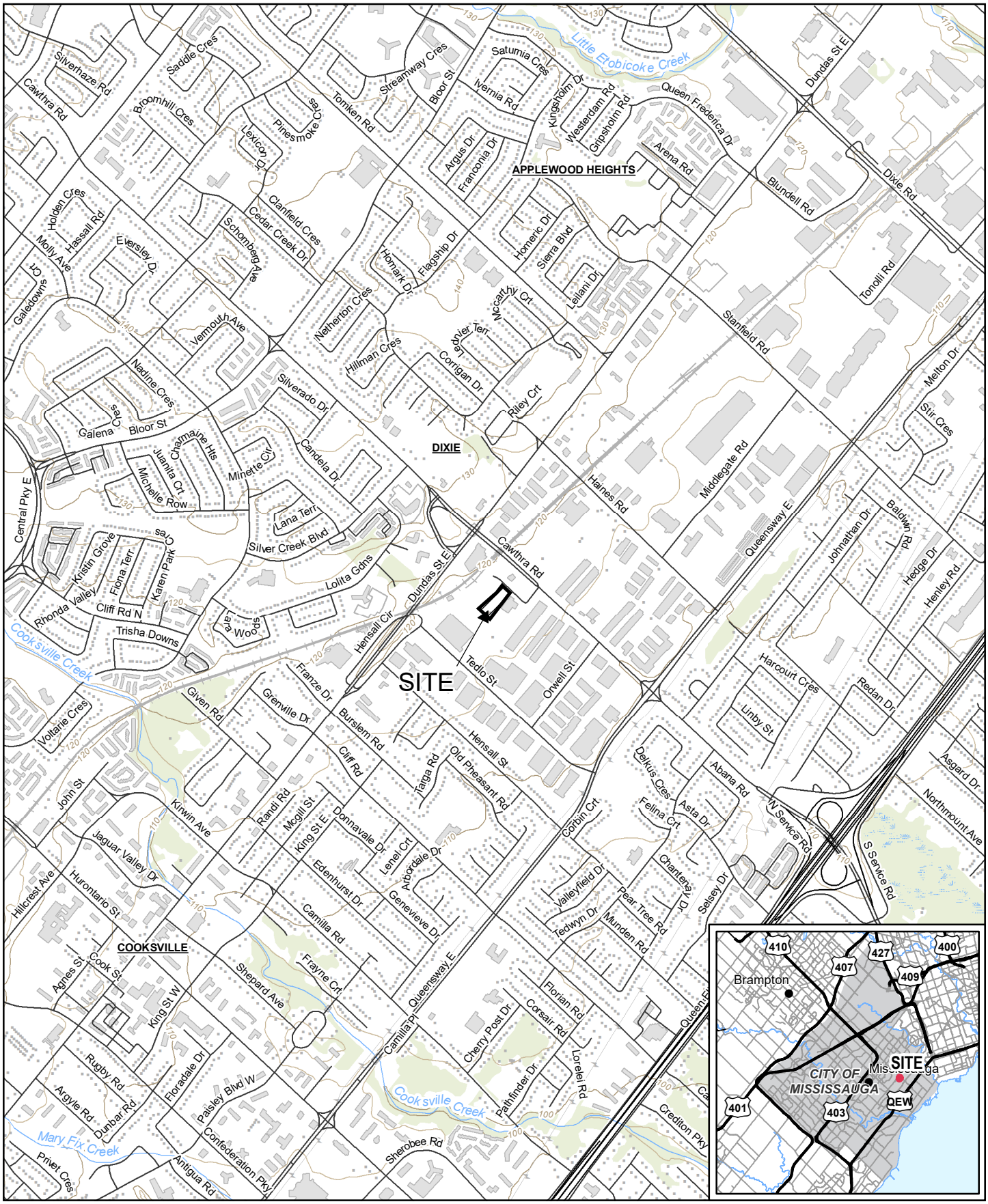
GHD

Brendan Llew-Williams, GIT, MSc.

Bernard Hau, P. Geo.

Julia Serink, P. Eng., QP_{ESA}

Figures



Paper Size ANSI A

0 130 260 390 520

Metres

Map Projection: Transverse Mercator
Horizontal Datum: North American 1983
Grid: NAD 1983 UTM Zone 17N

N

GHD

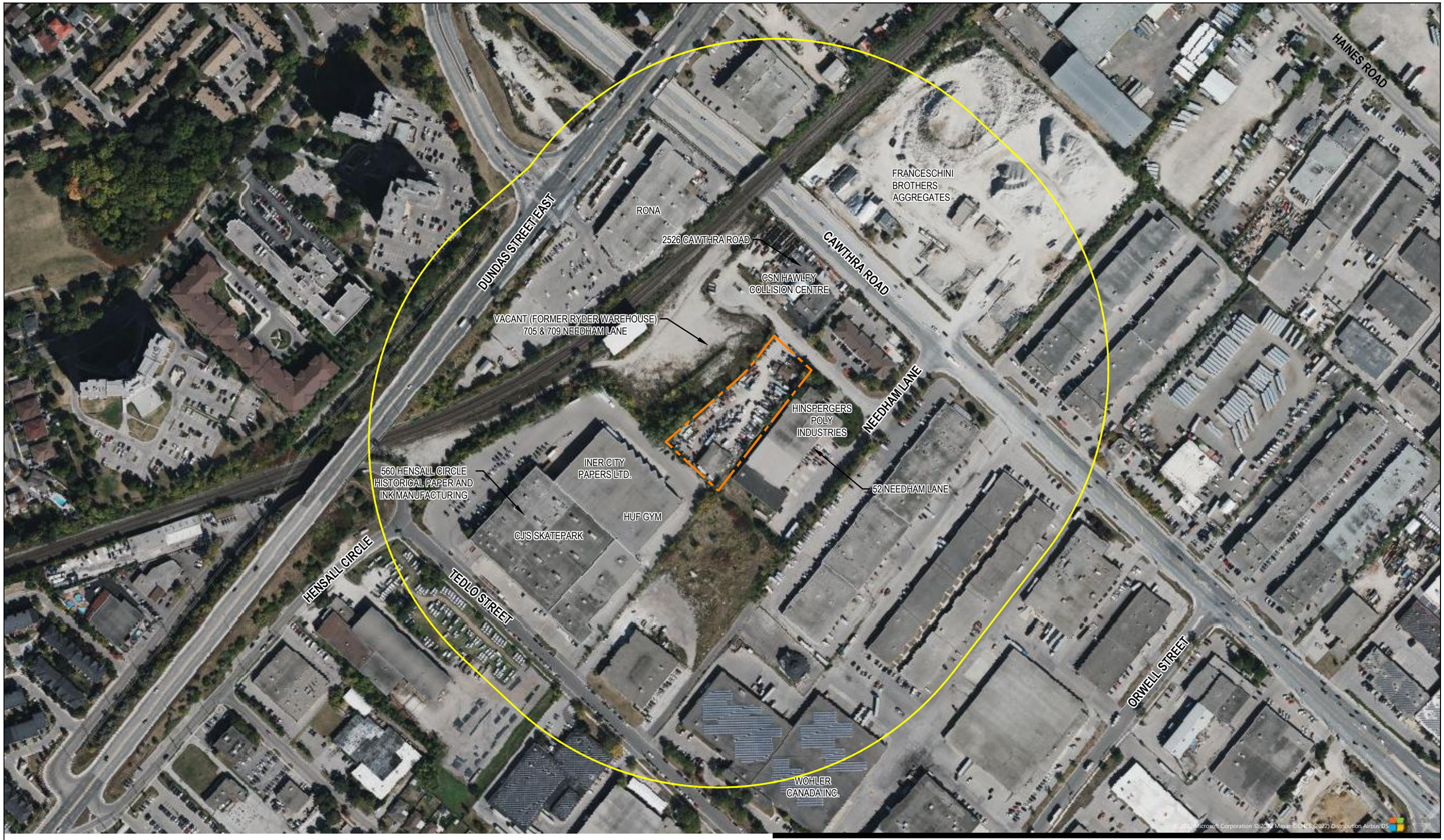
THE CORPORATION OF THE CITY OF MISSISSAUGA
2524 CAWTHRA ROAD, MISSISSAUGA, ONTARIO
PHASE ONE ENVIRONMENTAL SITE ASSESSMENT

Project No. **12581540**
Revision No. **-**
Date **May 13, 2022**

SITE LOCATION MAP

FIGURE 1

O:\GIS\PROJECTS\12581000s\12581540\Layouts\052022_RPT-PhaseONE_ESA\12581540_052022_RPT-PhaseONE_ESA_GIS001.mxd
Print date: 13 May 2022 - 09:43



LEGEND

PROPERTY BOUNDARY

PHASE ONE ESA STUDY AREA

0 30 60 90m

1:3000

Coordinate System:
UTM with NAD83 datum, Zone 17, Meter

N

GHD

THE CORPORATION OF THE CITY OF MISSISSAUGA
2524 CAWTHRA ROAD, MISSISSAUGA, ONTARIO
PHASE ONE ENVIRONMENTAL SITE ASSESSMENT

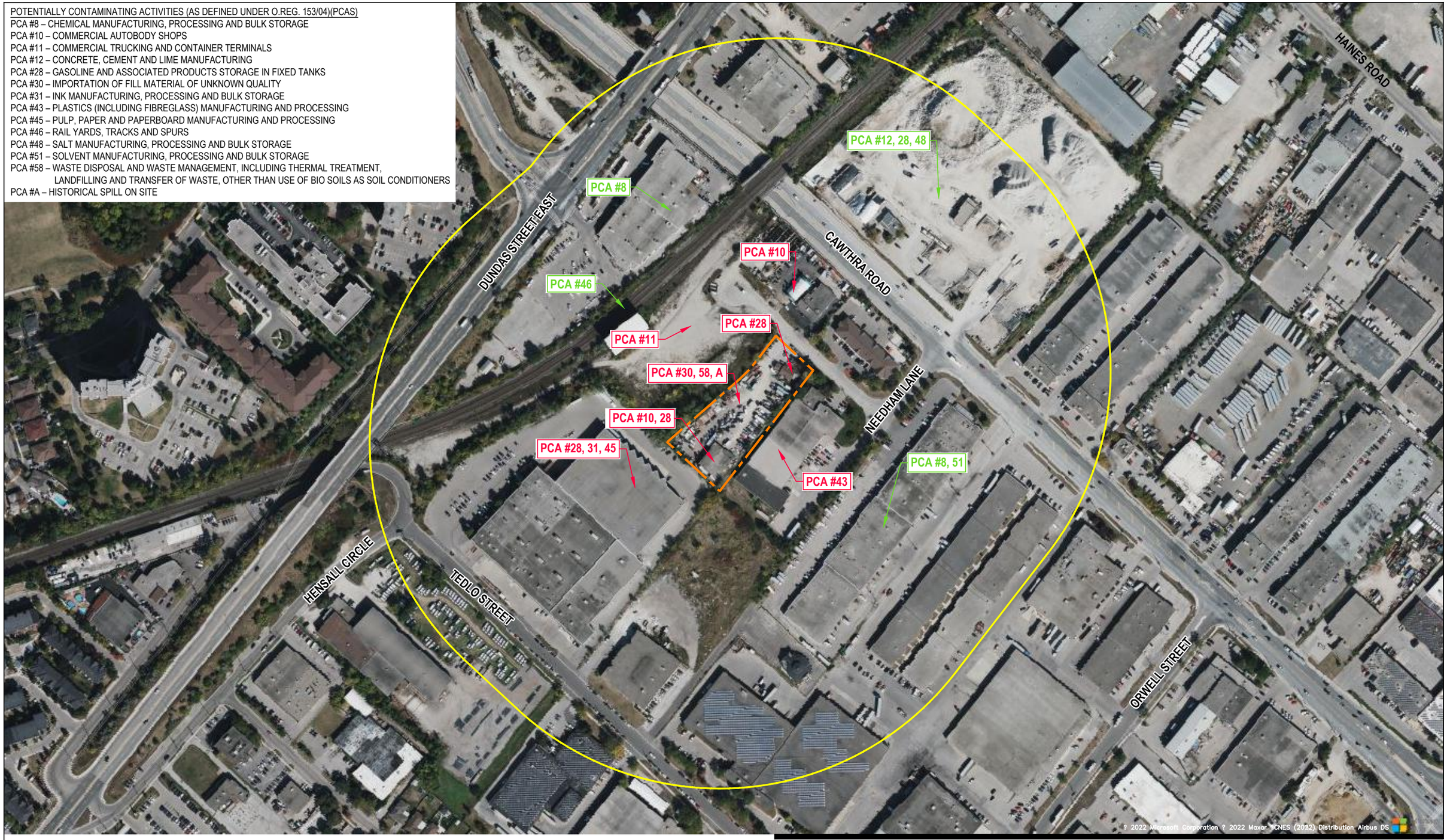
SITE AND SURROUNDING PROPERTIES

Project No. **12581540**
Date **July 2022**

FIGURE 2

Filename: N:\CA\Mississauga\Projects\662\12581540\Digital_Design\ACAD\Figures\RPT-PhaseONE_ESA\12581540-GHD-00-00-RPT-EN-D101_WA-001-PhaseONE_ESA.dwg
Plot Date: 27 July 2022 1:07 PM

POTENTIALLY CONTAMINATING ACTIVITIES (AS DEFINED UNDER O.REG. 153/04)(PCAS)
PCA #8 – CHEMICAL MANUFACTURING, PROCESSING AND BULK STORAGE
PCA #10 – COMMERCIAL AUTOBODY SHOPS
PCA #11 – COMMERCIAL TRUCKING AND CONTAINER TERMINALS
PCA #12 – CONCRETE, CEMENT AND LIME MANUFACTURING
PCA #28 – GASOLINE AND ASSOCIATED PRODUCTS STORAGE IN FIXED TANKS
PCA #30 – IMPORTATION OF FILL MATERIAL OF UNKNOWN QUALITY
PCA #31 – INK MANUFACTURING, PROCESSING AND BULK STORAGE
PCA #43 – PLASTICS (INCLUDING FIBREGLASS) MANUFACTURING AND PROCESSING
PCA #45 – PULP, PAPER AND PAPERBOARD MANUFACTURING AND PROCESSING
PCA #46 – RAIL YARDS, TRACKS AND SPURS
PCA #48 – SALT MANUFACTURING, PROCESSING AND BULK STORAGE
PCA #51 – SOLVENT MANUFACTURING, PROCESSING AND BULK STORAGE
PCA #58 – WASTE DISPOSAL AND WASTE MANAGEMENT, INCLUDING THERMAL TREATMENT, LANDFILLING AND TRANSFER OF WASTE, OTHER THAN USE OF BIO SOILS AS SOIL CONDITIONERS
PCA #A – HISTORICAL SPILL ON SITE



LEGEND

PROPERTY BOUNDARY

PHASE ONE ESA STUDY AREA

PCA #46 NOT CONTRIBUTING TO APEC

PCA #28 CONTRIBUTING TO APEC

0 30 60 90m

1:3000

Coordinate System:
UTM with NAD83 datum, Zone 17, Meter

N

GHD

THE CORPORATION OF THE CITY OF MISSISSAUGA
2524 CAWTHRA ROAD, MISSISSAUGA, ONTARIO
PHASE ONE ENVIRONMENTAL SITE ASSESSMENT

POTENTIALLY CONTAMINATING ACTIVITIES

Project No. **12581540**
Date **November 2022**

FIGURE 3

Filename: N:\CA\Mississauga\Projects\662\12581540\Digital_Design\ACAD\Figures\RPT-PhaseONE_ESA\12581540-GHD-00-00-RPT-EN-D103_WA-001-PhaseONE_ESA.dwg
Plot Date: 15 November 2022 7:32 AM

ON-SITE PCAs POTENTIALLY CONTRIBUTING TO APECs ON THE SITE
PCA #10 – COMMERCIAL AUTOBODY SHOPS
PCA #11 – COMMERCIAL TRUCKING AND CONTAINER TERMINALS
PCA #12 – CONCRETE, CEMENT AND LIME MANUFACTURING
PCA #28 – GASOLINE AND ASSOCIATED PRODUCTS STORAGE IN FIXED TANKS
PCA #30 – IMPORTATION OF FILL MATERIAL OF UNKNOWN QUALITY
PCA #31 – INK MANUFACTURING, PROCESSING AND BULK STORAGE
PCA #43 – PLASTICS (INCLUDING FIBREGLASS) MANUFACTURING AND PROCESSING
PCA #45 – PULP, PAPER AND PAPERBOARD MANUFACTURING AND PROCESSING

PCA #58 – WASTE DISPOSAL AND WASTE MANAGEMENT, INCLUDING THERMAL TREATMENT, LANDFILLING AND TRANSFER OF WASTE, OTHER THAN USE OF BIOSOILS AS SOIL CONDITIONERS
PCA #A – HISTORICAL SPILL ON SITE

LEGEND

PROPERTY BOUNDARY

ABOVE GROUND STORAGE TANK

APEC #1
- FILL QUALITY (ENTIRE SITE) (PCA #30)
- HISTORICAL SPILL (ENTIRE SITE) (PCA #A)
- HISTORICAL WASTE MANAGEMENT AND DISPOSAL (DICARLO EUGENE DISPOSAL) (ENTIRE SITE) (PCA #58)

APEC #2
- GARAGE AND MAINTENANCE AREA, WITH OIL WATER SEPARATOR (PCA #10)
- ABOVE GROUND STORAGE TANK (PCA #28)

APEC #3
- RESIDENTIAL HOME - ABOVE GROUND STORAGE TANK (PCA #28)

APEC #4
- ·2526 CAWTHRA ROAD - AUTOMOTIVE COLLISION CENTRE (PCA #10)

APEC #5
- 560 HENSALL CIRCLE HISTORICAL OPERATIONS - FUEL OUTLET WITH STORAGE TANKS (PCA #28)
- 560 HENSALL CIRCLE OPERATIONS - HISTORICAL PAPER AND INK PROCESSING FACILITY (PCA # 45 AND 31)

APEC #6
- 645 NEEDHAM LANE (PLASTICS MANUFACTURING (PCA # 43)

APEC #7
- 705/709 NEEDHAM LANE - HISTORICAL TRUCKING AND CONTAINER STORAGE (PCA #11)

0 7.5 15 22.5m

1:750

Coordinate System:
UTM with NAD83 datum, Zone 17, Meter

N

GHD

THE CORPORATION OF THE CITY OF MISSISSAUGA
2524 CAWTHRA ROAD, MISSISSAUGA, ONTARIO
PHASE ONE ENVIRONMENTAL SITE ASSESSMENT

PHASE ONE CONCEPTUAL SITE MODEL

Project No. **12581540**
Date **November 2022**

FIGURE 4

Filename: N:\CA\Mississauga\Projects\662\12581540\Digital_Design\ACAD\Figures\RPT-PhaseONE_ESA\12581540-GHD-00-00-RPT-EN-D102_WA-001-PhaseONE_ESA.dwg
Plot Date: 15 November 2022 7:47 AM

Appendices

Appendix A

ERIS Report

DATABASE REPORT

Project Property:	*2524 Cawthra Road* *2524 Cawthra Road* *Mississauga ON L5A 2X3*
Project No:	*12581540*
Report Type:	*Standard Report*
Order No:	*22042501364*
Requested by:	*GHD Services Inc.*
Date Completed:	*April 28, 2022*

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

Table of Contents

Executive Summary

Property Information:

Project Property:	*2524 Cawthra Road* *2524 Cawthra Road Mississauga ON L5A 2X3*
Project No:	*12581540*

Coordinates:

Latitude:	*43.5921*
Longitude:	*-79.59913*
UTM Northing:	*4,827,523.20*
UTM Easting:	*613,080.67*
UTM Zone:	*17T*

Elevation:	*386 FT* *117.79 M*

Order Information:

Order No:	*22042501364*
Date Requested:	*April 25, 2022*
Requested by:	*GHD Services Inc.*
Report Type:	*Standard Report*

Historical/Products:

City Directory Search	*CD - Subject Site*
ERIS Xplorer	*ERIS Xplorer*
Insurance Products	*Fire Insurance Maps/Inspection Reports/Site Plans*

Executive Summary: Report Summary

Database	Name	Searched	Project Property	Within 0.25 km	Total
AAGR	Abandoned Aggregate Inventory	Y	0	0	0
AGR	Aggregate Inventory	Y	0	0	0
AMIS	Abandoned Mine Information System	Y	0	0	0
ANDR	Anderson's Waste Disposal Sites	Y	0	0	0
AST	Aboveground Storage Tanks	Y	0	0	0
AUWR	Automobile Wrecking & Supplies	Y	0	0	0
BORE	Borehole	Y	0	0	0
CA	Certificates of Approval	Y	0	5	5
CDRY	Dry Cleaning Facilities	Y	0	0	0
CFOT	Commercial Fuel Oil Tanks	Y	0	0	0
CHEM	Chemical Manufacturers and Distributors	Y	0	0	0
CHM	Chemical Register	Y	0	0	0
CNG	Compressed Natural Gas Stations	Y	0	0	0
COAL	Inventory of Coal Gasification Plants and Coal Tar Sites	Y	0	0	0
CONV	Compliance and Convictions	Y	0	0	0
CPU	Certificates of Property Use	Y	0	0	0
DRL	Drill Hole Database	Y	0	0	0
DTNK	Delisted Fuel Tanks	Y	0	3	3
EASR	Environmental Activity and Sector Registry	Y	0	3	3
EBR	Environmental Registry	Y	0	3	3
ECA	Environmental Compliance Approval	Y	0	5	5
EEM	Environmental Effects Monitoring	Y	0	0	0
EHS	ERIS Historical Searches	Y	2	8	10
EIIS	Environmental Issues Inventory System	Y	0	0	0
EMHE	Emergency Management Historical Event	Y	0	0	0
EPAR	Environmental Penalty Annual Report	Y	0	0	0
EXP	List of Expired Fuels Safety Facilities	Y	0	0	0
FCON	Federal Convictions	Y	0	0	0
FCS	Contaminated Sites on Federal Land	Y	0	0	0
FOFT	Fisheries & Oceans Fuel Tanks	Y	0	0	0
FRST	Federal Identification Registry for Storage Tank Systems (FIRSTS)	Y	0	0	0
FST	Fuel Storage Tank	Y	0	3	3
FSTH	Fuel Storage Tank - Historic	Y	0	4	4
GEN	Ontario Regulation 347 Waste Generators Summary	Y	1	76	77
GHG	Greenhouse Gas Emissions from Large Facilities	Y	0	0	0
HINC	TSSA Historic Incidents	Y	0	0	0
IAFT	Indian & Northern Affairs Fuel Tanks	Y	0	0	0

Database	Name	Searched	Project Property	Within 0.25 km	Total
INC	Fuel Oil Spills and Leaks	Y	0	0	0
LIMO	Landfill Inventory Management Ontario	Y	0	0	0
MINE	Canadian Mine Locations	Y	0	0	0
MNR	Mineral Occurrences	Y	0	0	0
NATE	National Analysis of Trends in Emergencies System (NATES)	Y	0	0	0
NCPL	Non-Compliance Reports	Y	0	0	0
NDFT	National Defense & Canadian Forces Fuel Tanks	Y	0	0	0
NDSP	National Defense & Canadian Forces Spills	Y	0	0	0
NDWD	National Defence & Canadian Forces Waste Disposal Sites	Y	0	0	0
NEBI	National Energy Board Pipeline Incidents	Y	0	0	0
NEBP	National Energy Board Wells	Y	0	0	0
NEES	National Environmental Emergencies System (NEES)	Y	0	0	0
NPCB	National PCB Inventory	Y	0	0	0
NPRI	National Pollutant Release Inventory	Y	0	18	18
OGWE	Oil and Gas Wells	Y	0	0	0
OOGW	Ontario Oil and Gas Wells	Y	0	0	0
OPCB	Inventory of PCB Storage Sites	Y	0	0	0
ORD	Orders	Y	0	0	0
PAP	Canadian Pulp and Paper	Y	0	0	0
PCFT	Parks Canada Fuel Storage Tanks	Y	0	0	0
PES	Pesticide Register	Y	0	7	7
PINC	Pipeline Incidents	Y	0	0	0
PRT	Private and Retail Fuel Storage Tanks	Y	0	3	3
PTTW	Permit to Take Water	Y	0	1	1
REC	Ontario Regulation 347 Waste Receivers Summary	Y	0	0	0
RSC	Record of Site Condition	Y	0	0	0
RST	Retail Fuel Storage Tanks	Y	0	0	0
SCT	Scott's Manufacturing Directory	Y	0	42	42
SPL	Ontario Spills	Y	1	11	12
SRDS	Wastewater Discharger Registration Database	Y	0	0	0
TANK	Anderson's Storage Tanks	Y	0	0	0
TCFT	Transport Canada Fuel Storage Tanks	Y	0	0	0
VAR	Variances for Abandonment of Underground Storage Tanks	Y	0	0	0
WDS	Waste Disposal Sites - MOE CA Inventory	Y	0	0	0
WDSH	Waste Disposal Sites - MOE 1991 Historical Approval Inventory	Y	0	0	0
WWIS	Water Well Information System	Y	0	5	5
	Total:		4	197	201

Executive Summary: Site Report Summary - Project Property

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev diff (m)	Page Number
1	SPL	E. DICARLO DISPOSAL & PALLET C	2524 CAWTHRA ROAD MISSISSAUGA SITE 2524 CAWTHRA ROAD MISSISSAUGA CITY ON L5A 2X3	-/0.0	0.00	46
1	GEN	E. DICARLO DISPOSAL & PALLET CO. 49-171	LTD. 2524 CAWTHRA RD. MISSISSAUGA ON L5A 2X3	-/0.0	0.00	46
1	EHS		2524 Cawthra Rd Mississauga ON L5A 2X3	-/0.0	0.00	46
1	EHS		2524 Cawthra Road Mississauga ON L5A 2X3	-/0.0	0.00	47

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
2	SCT	HINSPERGER POLY INDUSTRIES LTD	645 NEEDHAM LANE MISSISSAUGA ON L5A 1T9	SE/49.2	-1.28	47
2	SCT	Hinspergers Poly Industries	645 Needham Lane Mississauga ON L5A 1T9	SE/49.2	-1.28	47
2	SCT	Hinspergers Poly Industries Ltd.	645 Needham Lane Mississauga ON L5A 1T9	SE/49.2	-1.28	48
3	WWIS		2526 CAWTHRA RD. MISSISSAUGA ON ***Well ID:*** 7116747	NE/76.3	0.14	48
4	EBR	Hawley Pontiac Buick Cadillac (1983) Ltd.	2526 Cawthra Road CITY OF MISSISSAUGA ON	NE/111.2	-0.77	51
4	EBR	Hawley Pontiac Buick Cadillac (1983) Ltd.	2526 Cawthra Road Mississauga Ontario L5A 2X3 Mississauga ON	NE/111.2	-0.77	51
4	CA	Hawley Pontiac Buick Cadillac (1983) Ltd.	2526 Cawthra Road Mississauga ON L5A 2X3	NE/111.2	-0.77	52
4	EASR	HAWLEY COLLISION CENTRE INC.	2526 CAWTHRA RD MISSISSAUGA ON L5A 2X3	NE/111.2	-0.77	52
4	EASR	HAWLEY COLLISION CENTRE INC.	2526 CAWTHRA RD MISSISSAUGA ON L5A 2X3	NE/111.2	-0.77	52
4	ECA	Hawley Pontiac Buick Cadillac (1983) Ltd.	2526 Cawthra Road Mississauga ON L5A 2X3	NE/111.2	-0.77	53
4	GEN	IMPRO Construction Services Ltd	2526 Cawthra Rd Mississauga ON L5A 3P2	NE/111.2	-0.77	53
4	GEN	IMPRO Construction Services Ltd	2526 Cawthra Rd Mississauga ON L5A 3P2	NE/111.2	-0.77	53

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
5	CA	The Regional Municipality of Peel	2500 Cawthra Rd Mississauga ON L5A 2X3	ENE/118.5	-0.88	53
5	ECA	The Regional Municipality of Peel	2500 Cawthra Rd Mississauga ON L6T 4B9	ENE/118.5	-0.88	54
6	NPRI	LAFARGE CONSTRUCTION & MATERIALS	2530 CAWTHRA Road MISSISSAUGA ON L5A2W7	NNE/159.1	0.73	54
6	NPRI	LAFARGE CONSTRUCTION & MATERIALS	2530 CAWTHRA Road MISSISSAUGA ON L5A2W7	NNE/159.1	0.73	55
6	NPRI	LAFARGE CONSTRUCTION & MATERIALS	2530 CAWTHRA Road MISSISSAUGA ON L5A2W7	NNE/159.1	0.73	57
7	CA	INDUSTRIAL PLASTIC FABRICATORS LTD.	2480 CAWTHRA ROAD, UNIT # 25 MISSISSAUGA CITY ON L5A 2X2	SE/162.4	-2.91	58
7	SCT	DRIVER-BIT TOOLS	2480 CAWTHRA RD UNIT 17 MISSISSAUGA ON L5A 2X2	SE/162.4	-2.91	59
7	SCT	Casa Toste Ltd.	2480 Cawthra Rd Unit 2-3 Mississauga ON L5A 2X2	SE/162.4	-2.91	59
7	SCT	VALUE PRINTING SERVICE	2480 CAWTHRA RD UNIT 11 MISSISSAUGA ON L5A 2X2	SE/162.4	-2.91	59
7	SCT	GBS BARBECUES INC.	2480 CAWTHRA RD UNIT 27 MISSISSAUGA ON L5A 2X2	SE/162.4	-2.91	59
7	SCT	Costa Produce Ltd.	2480 Cawthra Rd Unit 8-9 Mississauga ON L5A 2X2	SE/162.4	-2.91	60
7	SCT	CONCEPT CAPITAL INC.	2480 CAWTHRA RD UNIT 27 MISSISSAUGA ON L5A 2X2	SE/162.4	-2.91	60
7	SCT	ASTROGRAPHIC PRINTING	2480 CAWTHRA RD MISSISSAUGA ON L5A 2X2	SE/162.4	-2.91	60

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
7	SCT	F GARCIA MEAT PRODUCTS	2480 CAWTHRA RD MISSISSAUGA ON L5A 2X2	SE/162.4	-2.91	61
7	SCT	Toste Wholesale Food Products	2480 Cawthra Rd Unit 3 Mississauga ON L5A 2X2	SE/162.4	-2.91	61
7	SCT	Associated Sanitation Inc.	2480 Cawthra Rd Unit 26 Mississauga ON L5A 2X2	SE/162.4	-2.91	61
7	GEN	MACHINE TOOL TECH.	DIVISION OF PROCOR LTD. 2480 CAWTHRA RD. UNIT 17 MISSISSAUGA ON L5A 2X2	SE/162.4	-2.91	61
7	GEN	MACHINE (SEE&USE ON0150902)	ROBERTSON WHITEHOUSE 2480 CAWTHRA RD. UNIT 17 MISSISSAUGA ON L5A 2X2	SE/162.4	-2.91	62
7	GEN	MACHINE (SEE&USE ON0150902) 25-409	ROBERTSON WHITEHOUSE 2480 CAWTHRA RD. UNIT 17 MISSISSAUGA ON L5A 2X2	SE/162.4	-2.91	62
7	GEN	MACHINE TOOL TECH-DIV. OF	ROBERTSON WHITEHOUSE INC. 2480 CAWTHRA RD. UNIT 17 MISSISSAUGA ON L5A 2X2	SE/162.4	-2.91	62
7	GEN	MAC TOOL TECHNOLOGIES	2480 CAWTHRA ROAD, UNIT 17 MISSISSAUGA ON L5A 2X2	SE/162.4	-2.91	63
7	GEN	MACHINE TOOL TECH-DIV. OF 25-407	ROBERTSON WHITEHOUSE INC. 2480 CAWTHRA RD. UNIT 17 MISSISSAUGA ON L5A 2X2	SE/162.4	-2.91	63
7	GEN	MAC TOOL TECHNOLOGIES	2480 CAWTHRA ROAD UNIT 17 MISSISSAUGA ON L5A 2X2	SE/162.4	-2.91	63
7	GEN	MAC TOO(OUT OF BUSINESS)	2480 CAWTHRA ROAD UNIT 17 MISSISSAUGA ON L5A 2X2	SE/162.4	-2.91	64
7	GEN	NORDTECH INC.	2480 CAWTHRA RD. MISSISSAUGA ON L5A 2X2	SE/162.4	-2.91	64

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
7	GEN	NORDTECH INC.(OUT OF BUSINESS) 28-370	2480 CAWTHRA RD. MISSISSAUGA ON L5A 2X2	SE/162.4	-2.91	64
7	GEN	MACHINE TOOL (SEE & USE ON0143405)	2480 CAWTHRA RD., UNIT 17 MISSISSAUGA ON L5A 2X2	SE/162.4	-2.91	65
7	GEN	MACHINE TOOL (SEE & USE ON0143405)25-409	2480 CAWTHRA RD., UNIT 17 MISSISSAUGA ON L5A 2X2	SE/162.4	-2.91	65
7	GEN	VALUE PRINTING SERVICE	2480 CAWTHRA ROAD, UNIT #11 MISSISSAUGA ON L5A 2X2	SE/162.4	-2.91	65
7	GEN	VALUE PRINTING SERVICE	2480 CAWTHRA ROAD, UNIT 11 MISSISSAUGA ON L5A 2X2	SE/162.4	-2.91	65
7	SPL	Costa Produce Ltd.	2480 Cawthra Road 2480 CAWTHRA ROAD Mississauga ON L5A 2X2	SE/162.4	-2.91	66
7	SCT	Toste Bakery Ltd.	2480 Cawthra Rd Unit 2 Mississauga ON L5A 2X2	SE/162.4	-2.91	66
7	SCT	Mississauga Hydraulics Ltd.	2480 Cawthra Rd Unit 32 Mississauga ON L5A 2X2	SE/162.4	-2.91	66
7	SPL		2480 Cawthra Road Mississauga ON	SE/162.4	-2.91	67
7	SPL		2480 Cawthra Road Mississauga ON	SE/162.4	-2.91	67
7	SPL	Mahmoud Bdeir at Al-Amana Wholesale	Unit 19 - 2480 Cawthra Rd Mississauga ON L5A 2X2	SE/162.4	-2.91	68
7	SPL		2480 Cawthra Rd. Unit #19 Mississauga ON	SE/162.4	-2.91	68
8	PES	LANSING LUMBER (DUNDAS) LTD.	650 DUNDAS STREET EAST MISSISSAUGA ON L5A 3Y6	NW/165.3	2.06	69

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
8	EHS		650 Dundas St. E Mississauga ON L5A 3Y6	NW/165.3	2.06	69
8	PES	REVY HOME CENTRES INC.	650 DUNDAS STREET EAST MISSISSAUGA ON L5A3Y6	NW/165.3	2.06	69
8	PES	RONA INC	650 DUNDAS ST E MISSISSAUGA ON L5A3Y6	NW/165.3	2.06	70
8	GEN	LANSING BUILDALL	650 DUNDAS STREET EAST MISSISSAUGA ON L5A 3Y6	NW/165.3	2.06	70
8	GEN	RONA ONTARIO INC.	RONA-LANSING 650 DUNDAS STREET EAST MISSISSAUGA ON L5A 3Y6	NW/165.3	2.06	71
8	PES	RONA ONTARIO INC	650 DUNDAS ST E MISSISSAUGA ON L5A 3Y6	NW/165.3	2.06	71
8	CA	Rona Ontario Inc.	650 Dundas Street East Mississauga ON L5A 3Y6	NW/165.3	2.06	71
8	PES	4536631 CANADA INC	650 DUNDAS ST E MISSISSAUGA ON L5A 3Y6	NW/165.3	2.06	72
8	NPRI	RONA INC.	650 Dundas Street East Mississauga ON L5A3Y6	NW/165.3	2.06	72
8	GEN	RONA Inc.	650 DUNDAS STREET EAST MISSISSAUGA ON	NW/165.3	2.06	73
8	EHS		650 Dundas St E Mississauga ON L5A3Y6	NW/165.3	2.06	74
8	ECA	Rona Ontario Inc.	650 Dundas St E Mississauga ON J4B 8H7	NW/165.3	2.06	74
8	GEN	RONA Inc.	650 DUNDAS STREET EAST MISSISSAUGA ON L5A 3V6	NW/165.3	2.06	74

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
8	GEN	RONA Inc.	650 DUNDAS STREET EAST MISSISSAUGA ON L5A 3V6	NW/165.3	2.06	75
8	GEN	RONA Inc.	650 DUNDAS STREET EAST MISSISSAUGA ON L5A 3V6	NW/165.3	2.06	75
8	GEN	RONA Inc.	650 DUNDAS STREET EAST MISSISSAUGA ON L5A 3V6	NW/165.3	2.06	76
8	PES	LANSING LUMBER (DUNDAS) LTD.	650 DUNDAS STREET EAST MISSISSAUGA ON L5A3S6	NW/165.3	2.06	77
8	GEN	RONA Inc.	650 DUNDAS STREET EAST MISSISSAUGA ON L5A 3V6	NW/165.3	2.06	77
8	GEN	RONA Inc.	650 DUNDAS STREET EAST MISSISSAUGA ON L5A 3V6	NW/165.3	2.06	78
8	PES		650 DUNDAS ST E MISSISSAUGA ON L5A 3Y6	NW/165.3	2.06	80
9	PRT	INER CITY PAPERS LTD	560 HENSHALL CIR MISSISSAUGA ON L5A 1Y1	WSW/174.1	0.13	80
9	GEN	INTER CITY PAPERS LTD	560 HENSALL CIRCLE MISSISSAUGA ON L5A 1Y1	WSW/174.1	0.13	80
9	GEN	INTER CITY PAPERS 21-058	560 HENSALL CIRCLE MISSISSAUGA ON L5A 1Y1	WSW/174.1	0.13	81
9	GEN	INTER CITY PAPERS LTD 21-058	560 HENSALL CIRCLE MISSISSAUGA ON L5A 1Y1	WSW/174.1	0.13	81
9	GEN	INTER CITY PAPERS	560 HENSALL CIRCLE MISSISSAUGA ON L5A 1Y1	WSW/174.1	0.13	82
9	GEN	INTER (SEE & UE ON1732903)	560 HENSALL CIRCLE MISSISSAUGA ON L5A 1Y1	WSW/174.1	0.13	82

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
9	GEN	UNISOURCE CANADA INC.	560 HENSALL CIRCLE MISSISSAUGA ON L5A 1Y1	WSW/174.1	0.13	83
9	FSTH	UNISOURCE	560 HENSALL CIR MISSISSAUGA ON L5A 1Y1	WSW/174.1	0.13	84
9	FSTH	UNISOURCE	560 HENSALL CIR MISSISSAUGA ON L5A 1Y1	WSW/174.1	0.13	84
9	GEN	UNISOURCE CANADA INC.	560 HENSALL CIRCLE MISSISSAUGA ON L5A 1Y1	WSW/174.1	0.13	84
9	GEN	UNISOURCE CANADA INC.	560 HENSALL CIRCLE MISSISSAUGA ON L5A 1Y1	WSW/174.1	0.13	85
9	GEN	UNISOURCE CANADA INC.	560 HENSALL CIRCLE MISSISSAUGA ON L5A 1Y1	WSW/174.1	0.13	86
9	GEN	UNISOURCE CANADA INC.	560 HENSALL CIRCLE MISSISSAUGA ON L5A 1Y1	WSW/174.1	0.13	87
9	GEN	UNISOURCE CANADA INC.	560 HENSALL CIRCLE MISSISSAUGA ON	WSW/174.1	0.13	88
9	EHS		560 Hensall Cir Mississauga ON L5A1Y1	WSW/174.1	0.13	89
9	GEN	UNISOURCE CANADA INC.	560 HENSALL CIRCLE MISSISSAUGA ON L5A 1Y1	WSW/174.1	0.13	89
9	GEN	UNISOURCE CANADA INC.	560 HENSALL CIRCLE MISSISSAUGA ON L5A 1Y1	WSW/174.1	0.13	90
9	GEN	VERITIV	560 HENSALL CIRCLE MISSISSAUGA ON L5A 1Y1	WSW/174.1	0.13	91
9	GEN	VERITIV	560 HENSALL CIRCLE MISSISSAUGA ON L5A 1Y1	WSW/174.1	0.13	92

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
9	GEN	C.J. Graphics Inc.	560 Hensall Circle MISSISSAUGA ON L5A 1Y1	WSW/174.1	0.13	93
9	EASR	C J GRAPHICS INC.	560 HENSALL CIR MISSISSAUGA ON L5A 1Y1	WSW/174.1	0.13	94
9	GEN	C.J. Graphics Inc.	560 Hensall Circle MISSISSAUGA ON L5A 1Y1	WSW/174.1	0.13	94
9	EHS		560 Hensall Circle Mississauga ON L5A 1Y1	WSW/174.1	0.13	95
10	FST	UNISOURCE	560 HENSALL CIR MISSISSAUGA L5A 1Y1 ON CA ON	WSW/174.2	0.03	95
10	GEN	C.J. Graphics Inc.	560 Hensall Circle MISSISSAUGA ON L5A 1Y1	WSW/174.2	0.03	95
11	EHS		2526 Cawthra Rd Mississauga ON L5A2W7	ENE/177.5	-0.73	96
12	WWIS		ON ***Well ID:*** 7240692	WNW/180.6	2.06	96
13	PRT	FRANCESCHINI BROS AGGREGATES LIMITED	2531 CAWTHRA RD MISSISSAUGA ON L5A 2W7	NE/204.0	2.06	97
13	PRT	FRANCESCHINI BROS AGGREGATES LIMITED	2531 CAWTHRA RD MISSISSAUGA ON L5A 2W7	NE/204.0	2.06	97
13	SCT	FRANCESCHINI BROS AGGREGATES	2531 CAWTHRA RD MISSISSAUGA ON L5A 2W7	NE/204.0	2.06	97
13	SCT	Franceschini Bros. Aggregates Ltd.	2531 Cawthra Rd Mississauga ON L5A 2W7	NE/204.0	2.06	98
13	PTTW	Franceschini Bros. Aggregates Ltd.	2531 Cawthra Road, Mississauga, Ontario, L5A 2W7 ON	NE/204.0	2.06	98

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
13	GEN	FRANCESCHINI BROS. AGGREGATES LTD.	2531 CAWTHRA ROAD MISSISSAUGA ON L5A 2W7	NE/204.0	2.06	98
13	GEN	FRANCESCHINI BROS. AGGREGATES LTD.	2531 CAWTHRA ROAD MISSISSAUGA ON L5A 2W7	NE/204.0	2.06	99
13	GEN	FRANCESCHINI BROS. AGGREGATES LTD.15-157	2531 CAWTHRA ROAD MISSISSAUGA ON L5A 2W7	NE/204.0	2.06	99
13	GEN	FRANCESCHINI BROS AGGREGATES LTD	2531 CAWTHRA ROAD MISSISSAUGA ON L5A 2W7	NE/204.0	2.06	99
13	GEN	FRANCESCHINI BROS AGGREGATES LTD.	2531 CAWTHRA ROAD MISSISSAUGA ON L5A 2W7	NE/204.0	2.06	100
13	GEN	Lafarge Canada Inc.	2531 Cawthra Road Mississauga ON L5A 2W7	NE/204.0	2.06	100
13	SCT	Franceschini Bros. Aggregates	2531 Cawthra Rd Mississauga ON L5A 2W7	NE/204.0	2.06	100
13	FSTH	FRANCESCHINI BROS AGGREGATES LIMITED	2531 CAWTHRA RD MISSISSAUGA ON L5A 2W7	NE/204.0	2.06	101
13	NPRI	FRANCESCHINI BROS. AGGREGATES	2531 CAWTHRA ROAD NOT AVAILABLE MISSISSAUGA ON L5A2W7	NE/204.0	2.06	101
13	NPRI	FRANCESCHINI BROS. AGGREGATES	2531 CAWTHRA ROAD NOT AVAILABLE MISSISSAUGA ON L5A2W7	NE/204.0	2.06	102
13	FSTH	FRANCESCHINI BROS AGGREGATES LIMITED	2531 CAWTHRA RD MISSISSAUGA ON L5A 2W7	NE/204.0	2.06	103
13	NPRI	FRANCESCHINI BROS. AGGREGATES	2531 CAWTHRA ROAD NOT AVAILABLE MISSISSAUGA ON L5A2W7	NE/204.0	2.06	103
13	NPRI	FRANCESCHINI BROS. AGGREGATES	2531 CAWTHRA ROAD NOT AVAILABLE MISSISSAUGA ON L5A2W7	NE/204.0	2.06	104

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
13	NPRI	FRANCESCHINI BROS. AGGREGATES	2531 CAWTHRA Road MISSISSAUGA ON L5A 2W7	NE/204.0	2.06	105
13	SPL	Lafarge Canada Inc.	2531 Cawthra Rd Mississauga ON L5A 2W7	NE/204.0	2.06	105
13	DTNK	FRANCESCHINI BROS AGGREGATES LIMITED	2531 CAWTHRA RD MISSISSAUGA ON	NE/204.0	2.06	106
13	DTNK	FRANCESCHINI BROS AGGREGATES LIMITED	2531 CAWTHRA RD MISSISSAUGA ON	NE/204.0	2.06	106
13	GEN	Lafarge Canada Inc.	2531 Cawthra Road Mississauga ON L5A 2W7	NE/204.0	2.06	107
13	NPRI	FRANCESCHINI BROS. AGGREGATES	2531 CAWTHRA ROAD NOT AVAILABLE MISSISSAUGA ON L7K3L3	NE/204.0	2.06	107
13	GEN	Lafarge Canada Inc.	2531 Cawthra Road Mississauga ON L5A 2W7	NE/204.0	2.06	109
13	GEN	Lafarge Canada Inc.	2531 Cawthra Road Mississauga ON L5A 2W7	NE/204.0	2.06	109
13	GEN	Lafarge Canada Inc.	2531 Cawthra Road Mississauga ON L5A 2W7	NE/204.0	2.06	110
13	NPRI	FRANCESCHINI BROS. AGGREGATES	2531 CAWTHRA ROAD NOT AVAILABLE MISSISSAUGA ON L7K3L3	NE/204.0	2.06	110
13	NPRI	FRANCESCHINI BROS. AGGREGATES	2531 CAWTHRA Road MISSISSAUGA ON L5A2W7	NE/204.0	2.06	111
13	NPRI	FRANCESCHINI BROS. AGGREGATES	2531 CAWTHRA Road MISSISSAUGA ON L5A2W7	NE/204.0	2.06	112
13	NPRI	FRANCESCHINI BROS. AGGREGATES	2531 CAWTHRA Road MISSISSAUGA ON L5A2W7	NE/204.0	2.06	113

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
13	NPRI	FRANCESCHINI BROS. AGGREGATES	2531 CAWTHRA Road MISSISSAUGA ON L5A2W7	NE/204.0	2.06	115
13	NPRI	FRANCESCHINI BROS. AGGREGATES	2531 CAWTHRA Road MISSISSAUGA ON L5A2W7	NE/204.0	2.06	116
13	NPRI	FRANCESCHINI BROS. AGGREGATES	2531 CAWTHRA Road MISSISSAUGA ON L5A2W7	NE/204.0	2.06	117
13	NPRI	FRANCESCHINI BROS. AGGREGATES	2531 CAWTHRA Road MISSISSAUGA ON L5A2W7	NE/204.0	2.06	119
13	GEN	Lafarge Canada Inc.	2531 Cawthra Road Mississauga ON	NE/204.0	2.06	122
13	DTNK	FRANCESCHINI BROS AGGREGATES LIMITED	2531 CAWTHRA RD MISSISSAUGA L5A 2W7 ON CA ON	NE/204.0	2.06	122
13	SPL	Lafarge Canada Inc.	2531 Cawthra Road Mississauga ON	NE/204.0	2.06	123
13	SPL	Lafarge Canada Inc.	2531 Cawthra Rd Mississauga ON NA	NE/204.0	2.06	123
13	GEN	Lafarge Canada Inc.	2531 Cawthra Road Mississauga ON L5A 2W7	NE/204.0	2.06	124
13	GEN	Lafarge Canada Inc.	2531 Cawthra Road Mississauga ON L5A 2W7	NE/204.0	2.06	124
13	GEN	Lafarge Canada Inc.	2531 Cawthra Road Mississauga ON L5A 2W7	NE/204.0	2.06	125
13	GEN	Lafarge Canada Inc.	2531 Cawthra Road Mississauga ON L5A 2W7	NE/204.0	2.06	125
13	SPL	Lafarge Canada Inc.	2531 Cawthra Road Mississauga ON	NE/204.0	2.06	125

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
13	GEN	Lafarge Canada Inc.	2531 Cawthra Road Mississauga ON L5A 2W7	NE/204.0	2.06	126
13	SPL	Franceschini Bros. Aggregates Ltd.	2531 Cawthra Rd Mississauga ON NA	NE/204.0	2.06	126
14	FST	FRANCESCHINI BROS AGGREGATES LIMITED	2531 CAWTHRA RD MISSISSAUGA L5A 2W7 ON CA ON	NE/204.2	2.06	127
14	FST	FRANCESCHINI BROS AGGREGATES LIMITED	2531 CAWTHRA RD MISSISSAUGA L5A 2W7 ON CA ON	NE/204.2	2.06	127
14	EBR	Lafarge Canada Inc.	2531 Cawthra Road Mississauga , ON Canada ON	NE/204.2	2.06	128
14	GEN	Lafarge Canada Inc.	2531 Cawthra Road Mississauga ON L5A 2W7	NE/204.2	2.06	128
14	ECA	Lafarge Canada Inc.	2531 Cawthra Rd Mississauga ON L4V 1S7	NE/204.2	2.06	129
15	SCT	Beaverbrook Cabinets Ltd.	2446 Cawthra Rd Unit 3 Mississauga ON L5A 3K6	ESE/208.7	-4.10	129
15	SCT	Bryant Electric Inc.	2446 Cawthra Rd Unit 5 Mississauga ON L5A 3K6	ESE/208.7	-4.10	129
15	SCT	DELI FACTORY LTD.	2446 CAWTHRA RD UNIT 8 MISSISSAUGA ON L5A 3K6	ESE/208.7	-4.10	130
15	SCT	Aloumac Custom Welding Ltd.	2446 Cawthra Rd Unit 10 Mississauga ON L5A 3K6	ESE/208.7	-4.10	130
15	SCT	SHOOTING CHRONY INC	2446 CAWTHRA RD BLDG 1 UNIT 10 MISSISSAUGA ON L5A 3K6	ESE/208.7	-4.10	130
15	SCT	Beaverbrook Custom Cabinets	2446 Cawthra Rd Unit 3 Mississauga ON L5A 3K6	ESE/208.7	-4.10	131

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
15	SCT	COLOUR DISPLAY COMPANY LIMITED	2446 CAWTHRA RD BLDG 3 UNIT 5-6 MISSISSAUGA ON L5A 3K6	ESE/208.7	-4.10	131
15	SCT	Sunkim Industries Ltd	2446 Cawthra Rd Unit 6 Mississauga ON L5A 3K6	ESE/208.7	-4.10	131
15	SCT	TRANS MEDIA GRAPHICS LTD.	2446 CAWTHRA RD BLDG 2 UNIT 4 MISSISSAUGA ON L5A 3K6	ESE/208.7	-4.10	131
15	SCT	Nustef Foods Ltd.	2446 Cawthra Rd Unit 1 Mississauga ON L5A 3K6	ESE/208.7	-4.10	132
15	SCT	SUMMAR FOODS LTD	2446 CAWTHRA RD BLDG 3 UNIT 7 MISSISSAUGA ON L5A 3K6	ESE/208.7	-4.10	132
15	SCT	E. & A. IMAGE TREND LTD	2446 CAWTHRA RD BLDG 4 UNIT 8 MISSISSAUGA ON L5A 3K6	ESE/208.7	-4.10	132
15	SCT	Glenholme Printing Inc	2446 Cawthra Rd Unit 7 Mississauga ON L5A 3K6	ESE/208.7	-4.10	132
15	SCT	E. & A. IMAGE TREND LTD.	2446 Cawthra Rd Bldg 4 Unit 8 Mississauga ON L5A 3K6	ESE/208.7	-4.10	133
15	SCT	Summar Foods Ltd.	2446 Cawthra Rd Unit 7 Mississauga ON L5A 3K6	ESE/208.7	-4.10	133
15	SCT	Shooting Chrony Inc.	2446 Cawthra Rd Unit 10 Mississauga ON L5A 3K6	ESE/208.7	-4.10	133
15	SCT	Multi-Scales Charge Ltd.	2446 Cawthra Rd Unit 10 Mississauga ON L5A 3K6	ESE/208.7	-4.10	134
15	SCT	A A MACHINING KEY SEAT & APPL.	2446 Cawthra Rd Bldg 4 Unit 1 Mississauga ON L5A 3K6	ESE/208.7	-4.10	134
15	SCT	5 STAR WHOLESALE SMOKED MEAT	2446 Cawthra Rd Bldg 2 Unit 8 Mississauga ON L5A 3K6	ESE/208.7	-4.10	134

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
15	SCT	Glenholme Printing Inc.	2446 Cawthra Rd Bldg 4 Unit 7 Mississauga ON L5A 3K6	ESE/208.7	-4.10	134
15	SCT	Sunkim Industries Ltd.	2446 Cawthra Rd Bldg 1 Unit 6 Mississauga ON L5A 3K6	ESE/208.7	-4.10	134
15	SCT	5 Star Wholesale Smoked Meat & Sausages	2446 Cawthra Rd Bldg 2 Unit 8 Mississauga ON L5A 3K6	ESE/208.7	-4.10	134
15	SCT	Ali Food	2446 Cawthra Rd Unit 6 Mississauga ON L5A 3K6	ESE/208.7	-4.10	135
15	GEN	CONSOLIDATED SALVAGE CO. LTD.	2446 CAWTHRA RD. BLDG 2, UNIT 2 MISSISSAUGA ON L5A 3K6	ESE/208.7	-4.10	135
15	GEN	CONSOLIDATED SALVAGE CO. LTD. 08-812	2446 CAWTHRA RD. BLDG 2, UNIT 2 MISSISSAUGA ON L5A 3K6	ESE/208.7	-4.10	135
15	GEN	Shooting Chrony Inc.	2446 Cawthra Rd. Bldg. 1 Unit 10 Mississauga ON L5A 3K6	ESE/208.7	-4.10	136
15	GEN	CONSOLIDATED SALVAGE CO. LTD	2446 CAWTHRA ROAD BLDG. 3 UNITS # 1 & 2 MISSISSAUGA ON L5A 3K6	ESE/208.7	-4.10	136
15	CA	Tri-Phase Environmental Inc.	2446 Cawthra Rd. Bldg 2 Mississauga ON L5A 3K6	ESE/208.7	-4.10	136
15	SCT	Aloumac Custom Welding Ltd.	2446 Cawthra Rd Unit 10 Mississauga ON L5A 3K6	ESE/208.7	-4.10	136
15	GEN	CONSOLIDATED SALVAGE CO. LTD	2446 CAWTHRA ROAD BLDG. 3 UNITS # 1 & 2 MISSISSAUGA ON L5A 3K6	ESE/208.7	-4.10	137
15	GEN	CONSOLIDATED SALVAGE CO. LTD	2446 CAWTHRA ROAD BLDG. 3 UNITS # 1 & 2 MISSISSAUGA ON L5A 3K6	ESE/208.7	-4.10	137
15	GEN	CONSOLIDATED SALVAGE CO. LTD	2446 CAWTHRA ROAD BLDG. 3 UNITS # 1 & 2 MISSISSAUGA ON L5A 3K6	ESE/208.7	-4.10	137

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
15	GEN	CONSOLIDATED SALVAGE CO. LTD	2446 CAWTHRA ROAD BLDG. 3 UNITS # 1 & 2 MISSISSAUGA ON L5A 3K6	ESE/208.7	-4.10	138
15	GEN	CONSOLIDATED SALVAGE CO. LTD. SALVAGE CO. LTD	2446 CAWTHRA ROAD BLDG. 3 UNITS # 1 & 2 MISSISSAUGA ON	ESE/208.7	-4.10	138
15	ECA	Tri-Phase Environmental Inc.	2446 Cawthra Rd. Bldg 2 Mississauga ON L5A 4K4	ESE/208.7	-4.10	138
15	GEN	CONSOLIDATED SALVAGE CO. LTD. SALVAGE CO. LTD	2446 CAWTHRA ROAD BLDG. 3 UNITS # 1 - 5 MISSISSAUGA ON L5A 3K6	ESE/208.7	-4.10	138
15	GEN	CONSOLIDATED SALVAGE CO. LTD. SALVAGE CO. LTD	2446 CAWTHRA ROAD BLDG. 3 UNITS # 1 - 5 MISSISSAUGA ON L5A 3K6	ESE/208.7	-4.10	139
15	GEN	CONSOLIDATED SALVAGE CO. LTD. SALVAGE CO. LTD	2446 CAWTHRA ROAD BLDG. 3 UNITS # 1 - 5 MISSISSAUGA ON L5A 3K6	ESE/208.7	-4.10	139
15	GEN	CONSOLIDATED SALVAGE CO. LTD. SALVAGE CO. LTD	2446 CAWTHRA ROAD BLDG. 3 UNITS # 1 - 8 MISSISSAUGA ON L5A 3K6	ESE/208.7	-4.10	140
15	GEN	CONSOLIDATED SALVAGE CO. LTD. SALVAGE CO. LTD	2446 CAWTHRA ROAD BLDG. 3 UNITS # 1 - 8 MISSISSAUGA ON L5A 3K6	ESE/208.7	-4.10	140
15	GEN	CONSOLIDATED SALVAGE CO. LTD. SALVAGE CO. LTD	2446 CAWTHRA ROAD BLDG. 3 UNITS # 1 - 8 MISSISSAUGA ON L5A 3K6	ESE/208.7	-4.10	141
15	EHS		2446 Cawthra Road Mississauga ON L5A 3K6	ESE/208.7	-4.10	142
16	WWIS		ON ***Well ID:*** 7188911	S/210.6	-3.06	142
17	EHS		2521 Tedlo Street Mississauga ON L5A 4A8	SSE/214.1	-2.99	143

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
18	EHS		2446 Cawthra Road Mississauga ON L5A 3K6	ESE/219.5	-4.63	143
19	WWIS		2524 CAWTHRU RD. Mississauga ON ***Well ID:*** 7107064	SSW/219.6	-1.84	143
20	WWIS		2460 TEDLO ST Mississauga ON ***Well ID:*** 7281880	S/234.3	-2.97	153
21	SPL	Impro Construction Services<UNOFFICIAL>	On Cawthra Road at Dundas St E, underneath CN bridge Mississauga ON	NW/244.5	4.40	156
22	GEN	SKYLINE COMMERCIAL MANAGEMENT INC.	2565 TEDLO STREET MISSISSAUGA ON L5A 1Y1	WSW/244.7	1.19	156

Executive Summary: Summary By Data Source

CA - Certificates of Approval

A search of the CA database, dated 1985-Oct 30, 2011* has found that there are 5 CA site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
Rona Ontario Inc.	650 Dundas Street East Mississauga ON L5A 3Y6	NW	165.27	8

Lower Elevation	Address	Direction	Distance (m)	Map Key
Hawley Pontiac Buick Cadillac (1983) Ltd.	2526 Cawthra Road Mississauga ON L5A 2X3	NE	111.18	4
The Regional Municipality of Peel	2500 Cawthra Rd Mississauga ON L5A 2X3	ENE	118.54	5
INDUSTRIAL PLASTIC FABRICATORS LTD.	2480 CAWTHRA ROAD, UNIT # 25 MISSISSAUGA CITY ON L5A 2X2	SE	162.39	7
Tri-Phase Environmental Inc.	2446 Cawthra Rd. Bldg 2 Mississauga ON L5A 3K6	ESE	208.74	15

DTNK - Delisted Fuel Tanks

A search of the DTNK database, dated Feb 28, 2022 has found that there are 3 DTNK site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
FRANCESCHINI BROS AGGREGATES LIMITED	2531 CAWTHRA RD MISSISSAUGA L5A 2W7 ON CA ON	NE	203.98	13
FRANCESCHINI BROS AGGREGATES LIMITED	2531 CAWTHRA RD MISSISSAUGA ON	NE	203.98	13

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
FRANCESCHINI BROS AGGREGATES LIMITED	2531 CAWTHRA RD MISSISSAUGA ON	NE	203.98	13

EASR - Environmental Activity and Sector Registry

A search of the EASR database, dated Oct 2011- Mar 31, 2022 has found that there are 3 EASR site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
C J GRAPHICS INC.	560 HENSALL CIR MISSISSAUGA ON L5A 1Y1	WSW	174.07	9

Lower Elevation	Address	Direction	Distance (m)	Map Key
HAWLEY COLLISION CENTRE INC.	2526 CAWTHRA RD MISSISSAUGA ON L5A 2X3	NE	111.18	4
HAWLEY COLLISION CENTRE INC.	2526 CAWTHRA RD MISSISSAUGA ON L5A 2X3	NE	111.18	4

EBR - Environmental Registry

A search of the EBR database, dated 1994 - Mar 31, 2022 has found that there are 3 EBR site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
Lafarge Canada Inc.	2531 Cawthra Road Mississauga , ON Canada ON	NE	204.24	14

Lower Elevation	Address	Direction	Distance (m)	Map Key
Hawley Pontiac Buick Cadillac (1983) Ltd.	2526 Cawthra Road Mississauga Ontario L5A 2X3 Mississauga ON	NE	111.18	4
Hawley Pontiac Buick Cadillac (1983) Ltd.	2526 Cawthra Road CITY OF MISSISSAUGA ON	NE	111.18	4

ECA - Environmental Compliance Approval

A search of the ECA database, dated Oct 2011- Mar 31, 2022 has found that there are 5 ECA site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
Rona Ontario Inc.	650 Dundas St E Mississauga ON J4B 8H7	NW	165.27	8
Lafarge Canada Inc.	2531 Cawthra Rd Mississauga ON L4V 1S7	NE	204.24	14

Lower Elevation	Address	Direction	Distance (m)	Map Key
Hawley Pontiac Buick Cadillac (1983) Ltd.	2526 Cawthra Road Mississauga ON L5A 2X3	NE	111.18	4
The Regional Municipality of Peel	2500 Cawthra Rd Mississauga ON L6T 4B9	ENE	118.54	5
Tri-Phase Environmental Inc.	2446 Cawthra Rd. Bldg 2 Mississauga ON L5A 4K4	ESE	208.74	15

EHS - ERIS Historical Searches

A search of the EHS database, dated 1999-Nov 30, 2021 has found that there are 10 EHS site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
	2524 Cawthra Road Mississauga ON L5A 2X3	-	0.00	1
	2524 Cawthra Rd Mississauga ON L5A 2X3	-	0.00	1
	650 Dundas St. E Mississauga ON L5A 3Y6	NW	165.27	8

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
	650 Dundas St E Mississauga ON L5A3Y6	NW	165.27	8
	560 Hensall Circle Mississauga ON L5A 1Y1	WSW	174.07	9
	560 Hensall Cir Mississauga ON L5A1Y1	WSW	174.07	9

Lower Elevation	Address	Direction	Distance (m)	Map Key
	2526 Cawthra Rd Mississauga ON L5A2W7	ENE	177.50	11
	2446 Cawthra Road Mississauga ON L5A 3K6	ESE	208.74	15
	2521 Tedlo Street Mississauga ON L5A 4A8	SSE	214.10	17
	2446 Cawthra Road Mississauga ON L5A 3K6	ESE	219.54	18

FST - Fuel Storage Tank

A search of the FST database, dated Feb 28, 2022 has found that there are 3 FST site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
UNISOURCE	560 HENSALL CIR MISSISSAUGA L5A 1Y1 ON CA ON	WSW	174.17	10
FRANCESCHINI BROS AGGREGATES LIMITED	2531 CAWTHRA RD MISSISSAUGA L5A 2W7 ON CA ON	NE	204.24	14
FRANCESCHINI BROS AGGREGATES LIMITED	2531 CAWTHRA RD MISSISSAUGA L5A 2W7 ON CA ON	NE	204.24	14

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key

FSTH - Fuel Storage Tank - Historic

A search of the FSTH database, dated Pre-Jan 2010* has found that there are 4 FSTH site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
UNISOURCE	560 HENSALL CIR MISSISSAUGA ON L5A 1Y1	WSW	174.07	9
UNISOURCE	560 HENSALL CIR MISSISSAUGA ON L5A 1Y1	WSW	174.07	9
FRANCESCHINI BROS AGGREGATES LIMITED	2531 CAWTHRA RD MISSISSAUGA ON L5A 2W7	NE	203.98	13
FRANCESCHINI BROS AGGREGATES LIMITED	2531 CAWTHRA RD MISSISSAUGA ON L5A 2W7	NE	203.98	13

GEN - Ontario Regulation 347 Waste Generators Summary

A search of the GEN database, dated 1986-Nov 30, 2021 has found that there are 77 GEN site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
E. DICARLO DISPOSAL & PALLET CO. 49-171	LTD. 2524 CAWTHRA RD. MISSISSAUGA ON L5A 2X3	-	0.00	1
LANSING BUILDALL	650 DUNDAS STREET EAST MISSISSAUGA ON L5A 3Y6	NW	165.27	8
RONA ONTARIO INC.	RONA-LANSING 650 DUNDAS STREET EAST MISSISSAUGA ON L5A 3Y6	NW	165.27	8
RONA Inc.	650 DUNDAS STREET EAST MISSISSAUGA ON	NW	165.27	8

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
RONA Inc.	650 DUNDAS STREET EAST MISSISSAUGA ON L5A 3V6	NW	165.27	8
RONA Inc.	650 DUNDAS STREET EAST MISSISSAUGA ON L5A 3V6	NW	165.27	8
RONA Inc.	650 DUNDAS STREET EAST MISSISSAUGA ON L5A 3V6	NW	165.27	8
RONA Inc.	650 DUNDAS STREET EAST MISSISSAUGA ON L5A 3V6	NW	165.27	8
RONA Inc.	650 DUNDAS STREET EAST MISSISSAUGA ON L5A 3V6	NW	165.27	8
RONA Inc.	650 DUNDAS STREET EAST MISSISSAUGA ON L5A 3V6	NW	165.27	8
UNISOURCE CANADA INC.	560 HENSALL CIRCLE MISSISSAUGA ON L5A 1Y1	WSW	174.07	9
VERITIV	560 HENSALL CIRCLE MISSISSAUGA ON L5A 1Y1	WSW	174.07	9
VERITIV	560 HENSALL CIRCLE MISSISSAUGA ON L5A 1Y1	WSW	174.07	9
C.J. Graphics Inc.	560 Hensall Circle MISSISSAUGA ON L5A 1Y1	WSW	174.07	9
C.J. Graphics Inc.	560 Hensall Circle MISSISSAUGA ON L5A 1Y1	WSW	174.07	9
INTER CITY PAPERS LTD	560 HENSALL CIRCLE MISSISSAUGA ON L5A 1Y1	WSW	174.07	9

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
INTER CITY PAPERS 21-058	560 HENSALL CIRCLE MISSISSAUGA ON L5A 1Y1	WSW	174.07	9
INTER CITY PAPERS LTD 21-058	560 HENSALL CIRCLE MISSISSAUGA ON L5A 1Y1	WSW	174.07	9
INTER CITY PAPERS	560 HENSALL CIRCLE MISSISSAUGA ON L5A 1Y1	WSW	174.07	9
INTER (SEE & UE ON1732903)	560 HENSALL CIRCLE MISSISSAUGA ON L5A 1Y1	WSW	174.07	9
UNISOURCE CANADA INC.	560 HENSALL CIRCLE MISSISSAUGA ON L5A 1Y1	WSW	174.07	9
UNISOURCE CANADA INC.	560 HENSALL CIRCLE MISSISSAUGA ON L5A 1Y1	WSW	174.07	9
UNISOURCE CANADA INC.	560 HENSALL CIRCLE MISSISSAUGA ON L5A 1Y1	WSW	174.07	9
UNISOURCE CANADA INC.	560 HENSALL CIRCLE MISSISSAUGA ON L5A 1Y1	WSW	174.07	9
UNISOURCE CANADA INC.	560 HENSALL CIRCLE MISSISSAUGA ON L5A 1Y1	WSW	174.07	9
UNISOURCE CANADA INC.	560 HENSALL CIRCLE MISSISSAUGA ON	WSW	174.07	9
UNISOURCE CANADA INC.	560 HENSALL CIRCLE MISSISSAUGA ON L5A 1Y1	WSW	174.07	9

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
C.J. Graphics Inc.	560 Hensall Circle MISSISSAUGA ON L5A 1Y1	WSW	174.17	10
FRANCESCHINI BROS. AGGREGATES LTD.	2531 CAWTHRA ROAD MISSISSAUGA ON L5A 2W7	NE	203.98	13
FRANCESCHINI BROS. AGGREGATES LTD.	2531 CAWTHRA ROAD MISSISSAUGA ON L5A 2W7	NE	203.98	13
FRANCESCHINI BROS. AGGREGATES LTD.15-157	2531 CAWTHRA ROAD MISSISSAUGA ON L5A 2W7	NE	203.98	13
FRANCESCHINI BROS AGGREGATES LTD	2531 CAWTHRA ROAD MISSISSAUGA ON L5A 2W7	NE	203.98	13
FRANCESCHINI BROS AGGREGATES LTD.	2531 CAWTHRA ROAD MISSISSAUGA ON L5A 2W7	NE	203.98	13
Lafarge Canada Inc.	2531 Cawthra Road Mississauga ON L5A 2W7	NE	203.98	13
Lafarge Canada Inc.	2531 Cawthra Road Mississauga ON L5A 2W7	NE	203.98	13
Lafarge Canada Inc.	2531 Cawthra Road Mississauga ON L5A 2W7	NE	203.98	13
Lafarge Canada Inc.	2531 Cawthra Road Mississauga ON L5A 2W7	NE	203.98	13
Lafarge Canada Inc.	2531 Cawthra Road Mississauga ON	NE	203.98	13
Lafarge Canada Inc.	2531 Cawthra Road Mississauga ON L5A 2W7	NE	203.98	13

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
Lafarge Canada Inc.	2531 Cawthra Road Mississauga ON L5A 2W7	NE	203.98	13
Lafarge Canada Inc.	2531 Cawthra Road Mississauga ON L5A 2W7	NE	203.98	13
Lafarge Canada Inc.	2531 Cawthra Road Mississauga ON L5A 2W7	NE	203.98	13
Lafarge Canada Inc.	2531 Cawthra Road Mississauga ON L5A 2W7	NE	203.98	13
Lafarge Canada Inc.	2531 Cawthra Road Mississauga ON L5A 2W7	NE	203.98	13
Lafarge Canada Inc.	2531 Cawthra Road Mississauga ON L5A 2W7	NE	204.24	14
SKYLINE COMMERCIAL MANAGEMENT INC.	2565 TEDLO STREET MISSISSAUGA ON L5A 1Y1	WSW	244.71	22

Lower Elevation	Address	Direction	Distance (m)	Map Key
IMPRO Construction Services Ltd	2526 Cawthra Rd Mississauga ON L5A 3P2	NE	111.18	4
IMPRO Construction Services Ltd	2526 Cawthra Rd Mississauga ON L5A 3P2	NE	111.18	4
MACHINE TOOL TECH.	DIVISION OF PROCOR LTD. 2480 CAWTHRA RD. UNIT 17 MISSISSAUGA ON L5A 2X2	SE	162.39	7
MACHINE (SEE&USE ON0150902)	ROBERTSON WHITEHOUSE 2480 CAWTHRA RD. UNIT 17 MISSISSAUGA ON L5A 2X2	SE	162.39	7

MACHINE (SEE&USE ON0150902) 25-409	ROBERTSON WHITEHOUSE 2480 CAWTHRA RD. UNIT 17 MISSISSAUGA ON L5A 2X2	SE	162.39	7
MACHINE TOOL TECH-DIV. OF	ROBERTSON WHITEHOUSE INC. 2480 CAWTHRA RD. UNIT 17 MISSISSAUGA ON L5A 2X2	SE	162.39	7
MAC TOOL TECHNOLOGIES	2480 CAWTHRA ROAD, UNIT 17 MISSISSAUGA ON L5A 2X2	SE	162.39	7
MACHINE TOOL TECH-DIV. OF 25-407	ROBERTSON WHITEHOUSE INC. 2480 CAWTHRA RD. UNIT 17 MISSISSAUGA ON L5A 2X2	SE	162.39	7
MAC TOOL TECHNOLOGIES	2480 CAWTHRA ROAD UNIT 17 MISSISSAUGA ON L5A 2X2	SE	162.39	7
MAC TOO(OUT OF BUSINESS)	2480 CAWTHRA ROAD UNIT 17 MISSISSAUGA ON L5A 2X2	SE	162.39	7
NORDTECH INC.	2480 CAWTHRA RD. MISSISSAUGA ON L5A 2X2	SE	162.39	7
NORDTECH INC.(OUT OF BUSINESS) 28-370	2480 CAWTHRA RD. MISSISSAUGA ON L5A 2X2	SE	162.39	7
MACHINE TOOL (SEE & USE ON0143405)	2480 CAWTHRA RD., UNIT 17 MISSISSAUGA ON L5A 2X2	SE	162.39	7
MACHINE TOOL (SEE & USE ON0143405)25-409	2480 CAWTHRA RD., UNIT 17 MISSISSAUGA ON L5A 2X2	SE	162.39	7
VALUE PRINTING SERVICE	2480 CAWTHRA ROAD, UNIT #11 MISSISSAUGA ON L5A 2X2	SE	162.39	7
VALUE PRINTING SERVICE	2480 CAWTHRA ROAD, UNIT 11 MISSISSAUGA ON L5A 2X2	SE	162.39	7

CONSOLIDATED SALVAGE CO. LTD.	2446 CAWTHRA RD. BLDG 2, UNIT 2 MISSISSAUGA ON L5A 3K6	ESE	208.74	15
CONSOLIDATED SALVAGE CO. LTD. 08-812	2446 CAWTHRA RD. BLDG 2, UNIT 2 MISSISSAUGA ON L5A 3K6	ESE	208.74	15
Shooting Chrony Inc.	2446 Cawthra Rd. Bldg. 1 Unit 10 Mississauga ON L5A 3K6	ESE	208.74	15
CONSOLIDATED SALVAGE CO. LTD	2446 CAWTHRA ROAD BLDG. 3 UNITS # 1 & 2 MISSISSAUGA ON L5A 3K6	ESE	208.74	15
CONSOLIDATED SALVAGE CO. LTD	2446 CAWTHRA ROAD BLDG. 3 UNITS # 1 & 2 MISSISSAUGA ON L5A 3K6	ESE	208.74	15
CONSOLIDATED SALVAGE CO. LTD	2446 CAWTHRA ROAD BLDG. 3 UNITS # 1 & 2 MISSISSAUGA ON L5A 3K6	ESE	208.74	15
CONSOLIDATED SALVAGE CO. LTD	2446 CAWTHRA ROAD BLDG. 3 UNITS # 1 & 2 MISSISSAUGA ON L5A 3K6	ESE	208.74	15
CONSOLIDATED SALVAGE CO. LTD	2446 CAWTHRA ROAD BLDG. 3 UNITS # 1 & 2 MISSISSAUGA ON L5A 3K6	ESE	208.74	15
CONSOLIDATED SALVAGE CO. LTD. SALVAGE CO. LTD	2446 CAWTHRA ROAD BLDG. 3 UNITS # 1 & 2 MISSISSAUGA ON	ESE	208.74	15
CONSOLIDATED SALVAGE CO. LTD. SALVAGE CO. LTD	2446 CAWTHRA ROAD BLDG. 3 UNITS # 1 - 5 MISSISSAUGA ON L5A 3K6	ESE	208.74	15
CONSOLIDATED SALVAGE CO. LTD. SALVAGE CO. LTD	2446 CAWTHRA ROAD BLDG. 3 UNITS # 1 - 5 MISSISSAUGA ON L5A 3K6	ESE	208.74	15
CONSOLIDATED SALVAGE CO. LTD. SALVAGE CO. LTD	2446 CAWTHRA ROAD BLDG. 3 UNITS # 1 - 5 MISSISSAUGA ON L5A 3K6	ESE	208.74	15

CONSOLIDATED SALVAGE CO. LTD. SALVAGE CO. LTD	2446 CAWTHRA ROAD BLDG. 3 UNITS # 1 - 8 MISSISSAUGA ON L5A 3K6	ESE	208.74	15
CONSOLIDATED SALVAGE CO. LTD. SALVAGE CO. LTD	2446 CAWTHRA ROAD BLDG. 3 UNITS # 1 - 8 MISSISSAUGA ON L5A 3K6	ESE	208.74	15
CONSOLIDATED SALVAGE CO. LTD. SALVAGE CO. LTD	2446 CAWTHRA ROAD BLDG. 3 UNITS # 1 - 8 MISSISSAUGA ON L5A 3K6	ESE	208.74	15

NPRI - National Pollutant Release Inventory

A search of the NPRI database, dated 1993-May 2017 has found that there are 18 NPRI site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
LAFARGE CONSTRUCTION & MATERIALS	2530 CAWTHRA Road MISSISSAUGA ON L5A2W7	NNE	159.06	6
LAFARGE CONSTRUCTION & MATERIALS	2530 CAWTHRA Road MISSISSAUGA ON L5A2W7	NNE	159.06	6
LAFARGE CONSTRUCTION & MATERIALS	2530 CAWTHRA Road MISSISSAUGA ON L5A2W7	NNE	159.06	6
RONA INC.	650 Dundas Street East Mississauga ON L5A3Y6	NW	165.27	8
FRANCESCHINI BROS. AGGREGATES	2531 CAWTHRA ROAD NOT AVAILABLE MISSISSAUGA ON L7K3L3	NE	203.98	13
FRANCESCHINI BROS. AGGREGATES	2531 CAWTHRA Road MISSISSAUGA ON L5A 2W7	NE	203.98	13
FRANCESCHINI BROS. AGGREGATES	2531 CAWTHRA Road MISSISSAUGA ON L5A2W7	NE	203.98	13
FRANCESCHINI BROS. AGGREGATES	2531 CAWTHRA Road MISSISSAUGA ON L5A2W7	NE	203.98	13

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
FRANCESCHINI BROS. AGGREGATES	2531 CAWTHRA Road MISSISSAUGA ON L5A2W7	NE	203.98	13
FRANCESCHINI BROS. AGGREGATES	2531 CAWTHRA Road MISSISSAUGA ON L5A2W7	NE	203.98	13
FRANCESCHINI BROS. AGGREGATES	2531 CAWTHRA Road MISSISSAUGA ON L5A2W7	NE	203.98	13
FRANCESCHINI BROS. AGGREGATES	2531 CAWTHRA Road MISSISSAUGA ON L5A2W7	NE	203.98	13
FRANCESCHINI BROS. AGGREGATES	2531 CAWTHRA ROAD NOT AVAILABLE MISSISSAUGA ON L7K3L3	NE	203.98	13
FRANCESCHINI BROS. AGGREGATES	2531 CAWTHRA ROAD NOT AVAILABLE MISSISSAUGA ON L5A2W7	NE	203.98	13
FRANCESCHINI BROS. AGGREGATES	2531 CAWTHRA ROAD NOT AVAILABLE MISSISSAUGA ON L5A2W7	NE	203.98	13
FRANCESCHINI BROS. AGGREGATES	2531 CAWTHRA ROAD NOT AVAILABLE MISSISSAUGA ON L5A2W7	NE	203.98	13
FRANCESCHINI BROS. AGGREGATES	2531 CAWTHRA ROAD NOT AVAILABLE MISSISSAUGA ON L5A2W7	NE	203.98	13
FRANCESCHINI BROS. AGGREGATES	2531 CAWTHRA Road MISSISSAUGA ON L5A2W7	NE	203.98	13

PES - Pesticide Register

A search of the PES database, dated Oct 2011- Mar 31, 2022 has found that there are 7 PES site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
LANSING LUMBER (DUNDAS) LTD.	650 DUNDAS STREET EAST MISSISSAUGA ON L5A 3Y6	NW	165.27	8
REVY HOME CENTRES INC.	650 DUNDAS STREET EAST MISSISSAUGA ON L5A3Y6	NW	165.27	8
RONA INC	650 DUNDAS ST E MISSISSAUGA ON L5A3Y6	NW	165.27	8
RONA ONTARIO INC	650 DUNDAS ST E MISSISSAUGA ON L5A 3Y6	NW	165.27	8
4536631 CANADA INC	650 DUNDAS ST E MISSISSAUGA ON L5A 3Y6	NW	165.27	8
LANSING LUMBER (DUNDAS) LTD.	650 DUNDAS STREET EAST MISSISSAUGA ON L5A3S6	NW	165.27	8
	650 DUNDAS ST E MISSISSAUGA ON L5A 3Y6	NW	165.27	8

PRT - Private and Retail Fuel Storage Tanks

A search of the PRT database, dated 1989-1996* has found that there are 3 PRT site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
INER CITY PAPERS LTD	560 HENSHALL CIR MISSISSAUGA ON L5A 1Y1	WSW	174.07	9
FRANCESCHINI BROS AGGREGATES LIMITED	2531 CAWTHRA RD MISSISSAUGA ON L5A 2W7	NE	203.98	13
FRANCESCHINI BROS AGGREGATES LIMITED	2531 CAWTHRA RD MISSISSAUGA ON L5A 2W7	NE	203.98	13

PTTW - Permit to Take Water

A search of the PTTW database, dated 1994 - Mar 31, 2022 has found that there are 1 PTTW site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
Franceschini Bros. Aggregates Ltd.	2531 Cawthra Road, Mississauga, Ontario, L5A 2W7 ON	NE	203.98	13

SCT - Scott's Manufacturing Directory

A search of the SCT database, dated 1992-Mar 2011* has found that there are 42 SCT site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
Franceschini Bros. Aggregates	2531 Cawthra Rd Mississauga ON L5A 2W7	NE	203.98	13
Franceschini Bros. Aggregates Ltd.	2531 Cawthra Rd Mississauga ON L5A 2W7	NE	203.98	13
FRANCESCHINI BROS AGGREGATES	2531 CAWTHRA RD MISSISSAUGA ON L5A 2W7	NE	203.98	13

Lower Elevation	Address	Direction	Distance (m)	Map Key
HINSPERGER POLY INDUSTRIES LTD	645 NEEDHAM LANE MISSISSAUGA ON L5A 1T9	SE	49.21	2
Hinspergers Poly Industries	645 Needham Lane Mississauga ON L5A 1T9	SE	49.21	2
Hinspergers Poly Industries Ltd.	645 Needham Lane Mississauga ON L5A 1T9	SE	49.21	2
Mississauga Hydraulics Ltd.	2480 Cawthra Rd Unit 32 Mississauga ON L5A 2X2	SE	162.39	7

Toste Bakery Ltd.	2480 Cawthra Rd Unit 2 Mississauga ON L5A 2X2	SE	162.39	7
Associated Sanitation Inc.	2480 Cawthra Rd Unit 26 Mississauga ON L5A 2X2	SE	162.39	7
Toste Wholesale Food Products	2480 Cawthra Rd Unit 3 Mississauga ON L5A 2X2	SE	162.39	7
DRIVER-BIT TOOLS	2480 CAWTHRA RD UNIT 17 MISSISSAUGA ON L5A 2X2	SE	162.39	7
Casa Toste Ltd.	2480 Cawthra Rd Unit 2-3 Mississauga ON L5A 2X2	SE	162.39	7
VALUE PRINTING SERVICE	2480 CAWTHRA RD UNIT 11 MISSISSAUGA ON L5A 2X2	SE	162.39	7
GBS BARBECUES INC.	2480 CAWTHRA RD UNIT 27 MISSISSAUGA ON L5A 2X2	SE	162.39	7
Costa Produce Ltd.	2480 Cawthra Rd Unit 8-9 Mississauga ON L5A 2X2	SE	162.39	7
CONCEPT CAPITAL INC.	2480 CAWTHRA RD UNIT 27 MISSISSAUGA ON L5A 2X2	SE	162.39	7
ASTROGRAPHIC PRINTING	2480 CAWTHRA RD MISSISSAUGA ON L5A 2X2	SE	162.39	7
F GARCIA MEAT PRODUCTS	2480 CAWTHRA RD MISSISSAUGA ON L5A 2X2	SE	162.39	7
DELI FACTORY LTD.	2446 CAWTHRA RD UNIT 8 MISSISSAUGA ON L5A 3K6	ESE	208.74	15
Sunkim Industries Ltd	2446 Cawthra Rd Unit 6 Mississauga ON L5A 3K6	ESE	208.74	15

TRANS MEDIA GRAPHICS LTD.	2446 CAWTHRA RD BLDG 2 UNIT 4 MISSISSAUGA ON L5A 3K6	ESE	208.74	15
Nustef Foods Ltd.	2446 Cawthra Rd Unit 1 Mississauga ON L5A 3K6	ESE	208.74	15
SUMMAR FOODS LTD	2446 CAWTHRA RD BLDG 3 UNIT 7 MISSISSAUGA ON L5A 3K6	ESE	208.74	15
E. & A. IMAGE TREND LTD	2446 CAWTHRA RD BLDG 4 UNIT 8 MISSISSAUGA ON L5A 3K6	ESE	208.74	15
Glenholme Printing Inc	2446 Cawthra Rd Unit 7 Mississauga ON L5A 3K6	ESE	208.74	15
E. & A. IMAGE TREND LTD.	2446 Cawthra Rd Bldg 4 Unit 8 Mississauga ON L5A 3K6	ESE	208.74	15
Summar Foods Ltd.	2446 Cawthra Rd Unit 7 Mississauga ON L5A 3K6	ESE	208.74	15
Shooting Chrony Inc.	2446 Cawthra Rd Unit 10 Mississauga ON L5A 3K6	ESE	208.74	15
Multi-Scales Charge Ltd.	2446 Cawthra Rd Unit 10 Mississauga ON L5A 3K6	ESE	208.74	15
A A MACHINING KEY SEAT & APPL.	2446 Cawthra Rd Bldg 4 Unit 1 Mississauga ON L5A 3K6	ESE	208.74	15
Glenholme Printing Inc.	2446 Cawthra Rd Bldg 4 Unit 7 Mississauga ON L5A 3K6	ESE	208.74	15
Sunkim Industries Ltd.	2446 Cawthra Rd Bldg 1 Unit 6 Mississauga ON L5A 3K6	ESE	208.74	15

5 Star Wholesale Smoked Meat & Sausages	2446 Cawthra Rd Bldg 2 Unit 8 Mississauga ON L5A 3K6	ESE	208.74	15
Ali Food	2446 Cawthra Rd Unit 6 Mississauga ON L5A 3K6	ESE	208.74	15
Aloumac Custom Welding Ltd.	2446 Cawthra Rd Unit 10 Mississauga ON L5A 3K6	ESE	208.74	15
Beaverbrook Cabinets Ltd.	2446 Cawthra Rd Unit 3 Mississauga ON L5A 3K6	ESE	208.74	15
Bryant Electric Inc.	2446 Cawthra Rd Unit 5 Mississauga ON L5A 3K6	ESE	208.74	15
Aloumac Custom Welding Ltd.	2446 Cawthra Rd Unit 10 Mississauga ON L5A 3K6	ESE	208.74	15
SHOOTING CHRONY INC	2446 CAWTHRA RD BLDG 1 UNIT 10 MISSISSAUGA ON L5A 3K6	ESE	208.74	15
Beaverbrook Custom Cabinets	2446 Cawthra Rd Unit 3 Mississauga ON L5A 3K6	ESE	208.74	15
COLOUR DISPLAY COMPANY LIMITED	2446 CAWTHRA RD BLDG 3 UNIT 5-6 MISSISSAUGA ON L5A 3K6	ESE	208.74	15
5 STAR WHOLESALE SMOKED MEAT	2446 Cawthra Rd Bldg 2 Unit 8 Mississauga ON L5A 3K6	ESE	208.74	15

SPL - Ontario Spills

A search of the SPL database, dated 1988-Sep 2020; Dec 2020-Mar 2021 has found that there are 12 SPL site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
E. DICARLO DISPOSAL & PALLET C	2524 CAWTHRA ROAD MISSISSAUGA SITE 2524 CAWTHRA ROAD MISSISSAUGA CITY ON L5A 2X3	-	0.00	1

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
Franceschini Bros. Aggregates Ltd.	2531 Cawthra Rd Mississauga ON NA	NE	203.98	13
Lafarge Canada Inc.	2531 Cawthra Road Mississauga ON	NE	203.98	13
Lafarge Canada Inc.	2531 Cawthra Rd Mississauga ON L5A 2W7	NE	203.98	13
Lafarge Canada Inc.	2531 Cawthra Road Mississauga ON	NE	203.98	13
Lafarge Canada Inc.	2531 Cawthra Rd Mississauga ON NA	NE	203.98	13
Impro Construction Services<UNOFFICIAL>	On Cawthra Road at Dundas St E, underneath CN bridge Mississauga ON	NW	244.49	21

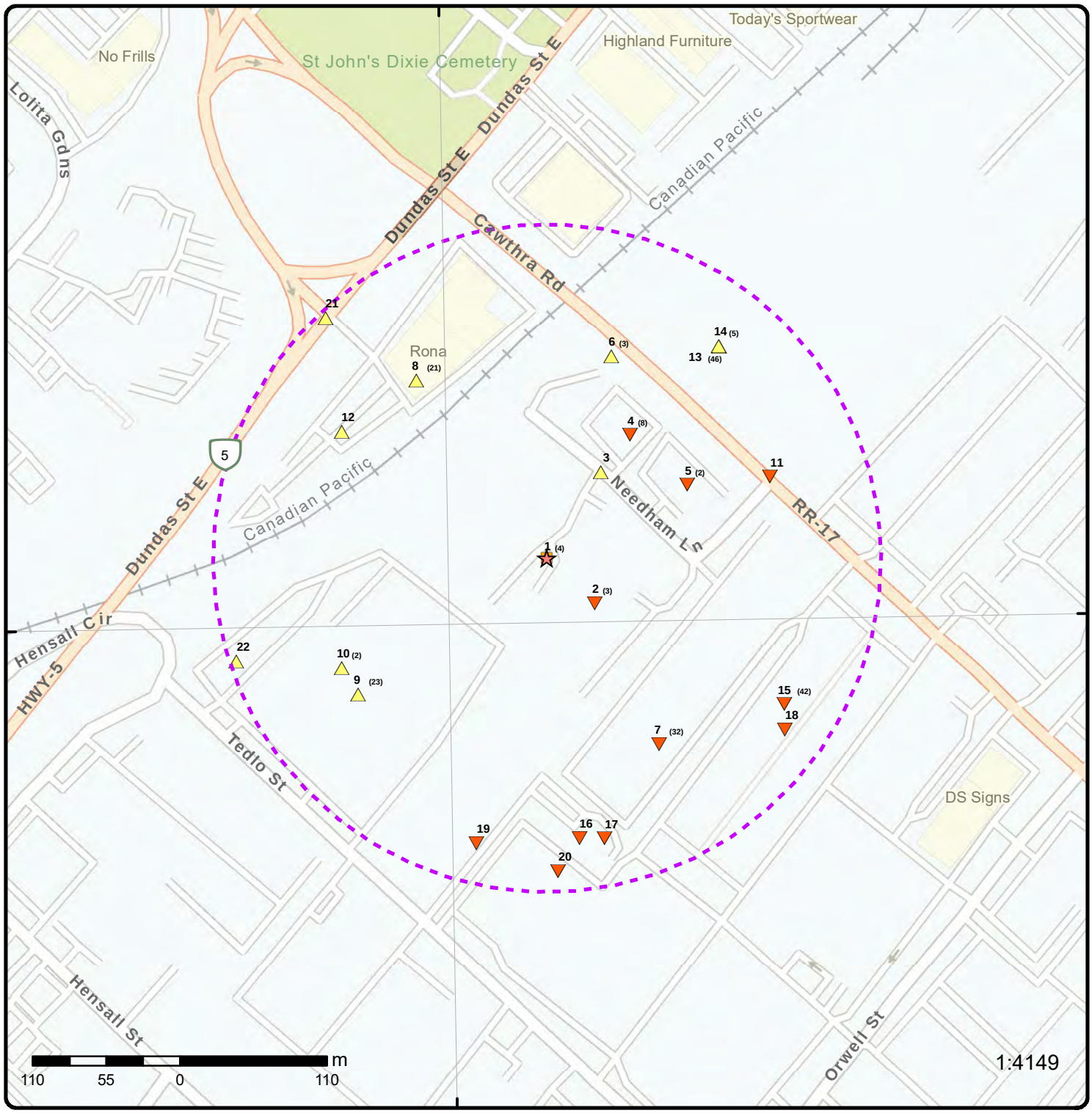
Lower Elevation	Address	Direction	Distance (m)	Map Key
	2480 Cawthra Rd. Unit #19 Mississauga ON	SE	162.39	7
Mahmoud Bdeir at Al-Amana Wholesale	Unit 19 - 2480 Cawthra Rd Mississauga ON L5A 2X2	SE	162.39	7
	2480 Cawthra Road Mississauga ON	SE	162.39	7
	2480 Cawthra Road Mississauga ON	SE	162.39	7
Costa Produce Ltd.	2480 Cawthra Road 2480 CAWTHRA ROAD Mississauga ON L5A 2X2	SE	162.39	7

WWIS - Water Well Information System

A search of the WWIS database, dated Sep 30, 2021 has found that there are 5 WWIS site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
	2526 CAWTHRA RD. MISSISSAUGA ON ***Well ID:*** 7116747	NE	76.32	3
	ON ***Well ID:*** 7240692	WNW	180.56	12

Lower Elevation	Address	Direction	Distance (m)	Map Key
	ON ***Well ID:*** 7188911	S	210.61	16
	2524 CAWTHRU RD. Mississauga ON ***Well ID:*** 7107064	SSW	219.61	19
	2460 TEDLO ST Mississauga ON ***Well ID:*** 7281880	S	234.35	20



Map: 0.25 Kilometer Radius

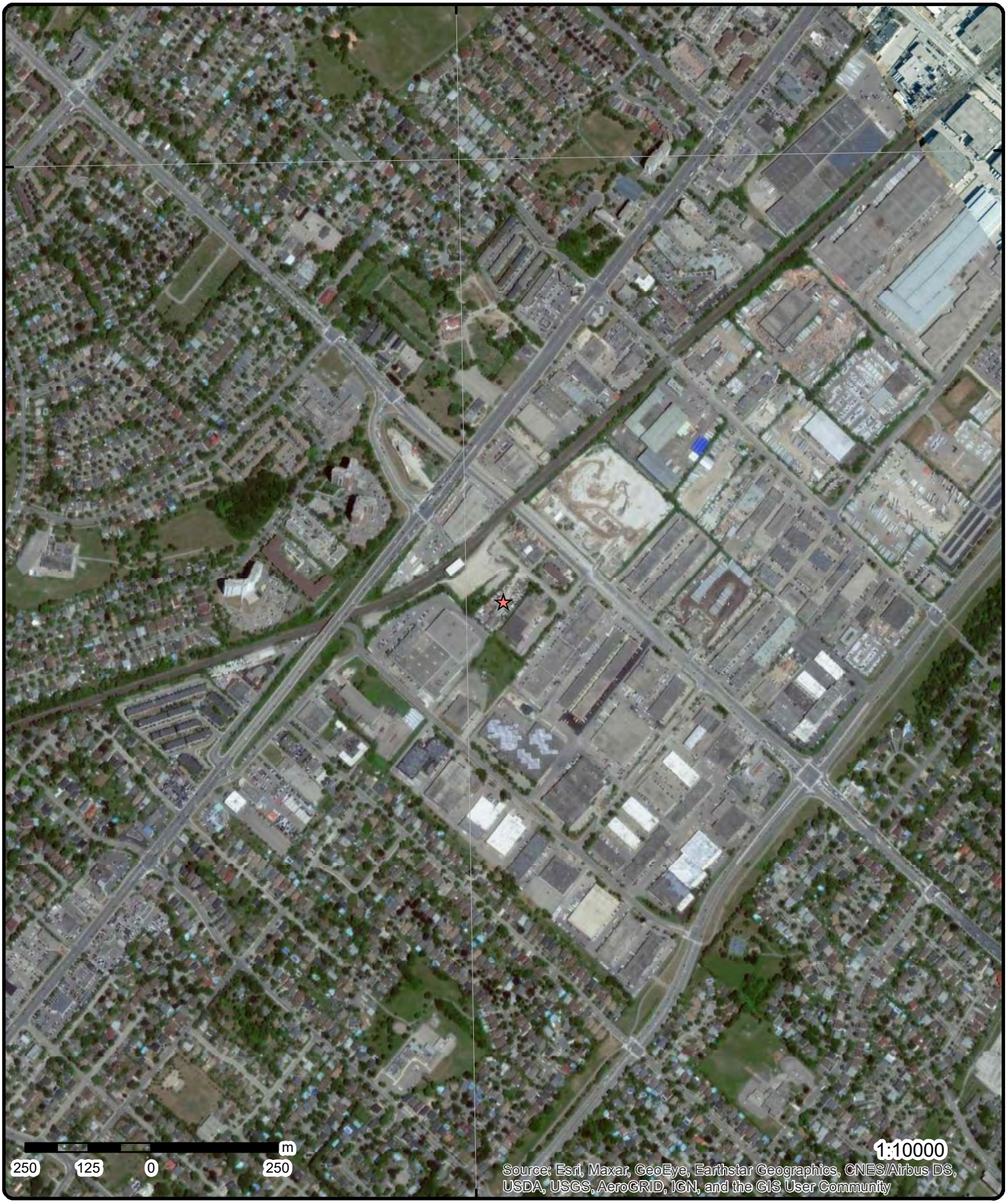
Order Number: 22042501364

Address: 2524 Cawthra Road, Mississauga, ON

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

79°36'W

43°36'N



43°36'N

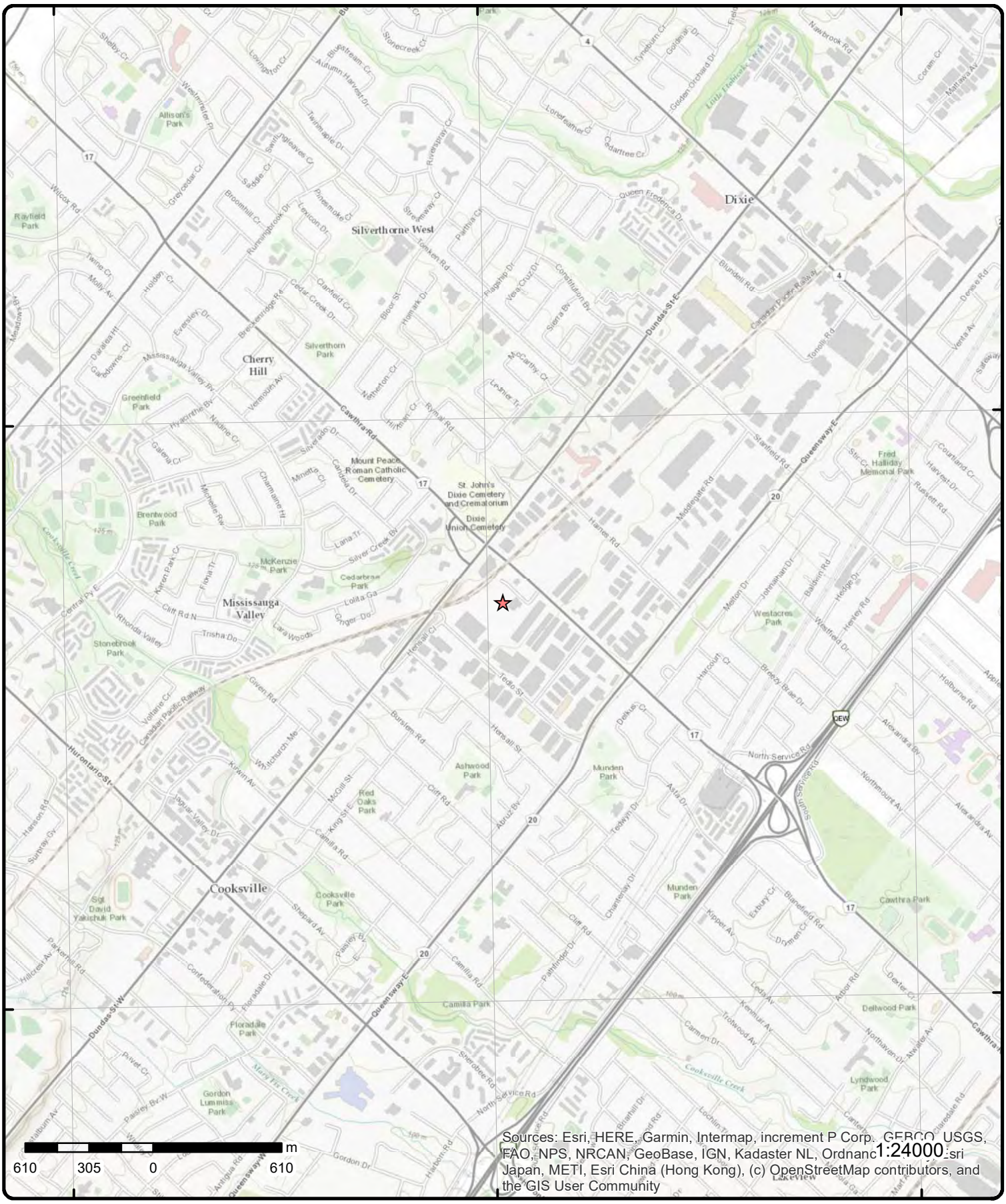
Aerial

Year: 2018

Order Number: 22042501364

Address: 2524 Cawthra Road, Mississauga, ON

Source: ESRI World Imagery



Topographic Map

Address: 2524 Cawthra Road, ON

Source: ESRI World Topographic Map

Order Number: 22042501364

Detail Report

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
1	1 of 4	-/0.0	117.8 / 0.00	E. DICARLO DISPOSAL & PALLET C 2524 CAWTHRA ROAD MISSISSAUGA SITE 2524 CAWTHRA ROAD MISSISSAUGA CITY ON L5A 2X3	SPL

Ref No:	81743	**Discharger Report:**	
Site No:		**Material Group:**	
Incident Dt:	2/10/1993	**Health/Env Conseq:**	
Year:		**Client Type:**	
Incident Cause:	CONTAINER OVERFLOW	**Sector Type:**	
Incident Event:		**Agency Involved:**	
Contaminant Code:		**Nearest Watercourse:**	
Contaminant Name:		**Site Address:**	
Contaminant Limit 1:		**Site District Office:**	
Contam Limit Freq 1:		**Site Postal Code:**	
Contaminant UN No 1:		**Site Region:**	
Environment Impact:	CONFIRMED	**Site Municipality:**	21102
Nature of Impact:	Soil contamination	**Site Lot:**	
Receiving Medium:	LAND / AIR	**Site Conc:**	
Receiving Env:		**Northing:**	
MOE Response:		**Easting:**	FIRE DEPT, REGION OF PEEL
Dt MOE Arvl on Scn:		**Site Geo Ref Accu:**	
MOE Reported Dt:	2/10/1993	**Site Map Datum:**	
Dt Document Closed:		**SAC Action Class:**	
Incident Reason:	FIRE/EXPLOSION	**Source Type:**	
Site Name:			
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	E.DICARLO DISPOSAL: OILY FIRE WATER TO LAND DUE TOLUGGER BOX FIRE.		
Contaminant Qty:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
1	2 of 4	-/0.0	117.8 / 0.00	E. DICARLO DISPOSAL & PALLET CO. 49-171 LTD. 2524 CAWTHRA RD. MISSISSAUGA ON L5A 2X3	GEN

Generator No:	ON1728200	**Status:**	
SIC Code:	4564	**Co Admin:**	
SIC Description:	BULK DRY TRUCKING	**Choice of Contact:**	
Approval Years:	93,94,95,96,97,98	**Phone No Admin:**	
PO Box No:		**Contam. Facility:**	
Country:		**MHSW Facility:**	

Detail(s)

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

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
1	3 of 4	-/0.0	117.8 / 0.00	2524 Cawthra Rd Mississauga ON L5A 2X3	EHS

Order No:	20080425008	**Nearest Intersection:**	Needham Lane & Cawthra Rd

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

Status:	C	**Municipality:**	Peel
Report Type:	Complete Report	**Client Prov/State:**	BC
Report Date:	5/5/2008	**Search Radius (km):**	0.25
Date Received:	4/25/2008	**X:**	-79.599161
Previous Site Name:		**Y:**	43.591975
Lot/Building Size:			

Additional Info Ordered: Fire Insur. Maps And /or Site Plans

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
1	4 of 4	-/0.0	117.8 / 0.00	**2524 Cawthra Road** **Mississauga ON L5A 2X3**	EHS

Order No:	20090717028	**Nearest Intersection:**	Needham Lane and Cawthra Rd
Status:	C	**Municipality:**	Missauaga
Report Type:	Standard Report	**Client Prov/State:**	ON
Report Date:	7/28/2009	**Search Radius (km):**	0.25
Date Received:	7/17/2009	**X:**	-79.599118
Previous Site Name:		**Y:**	43.592629
Lot/Building Size:	1.5 Acres		

Additional Info Ordered: City Directory

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
2	1 of 3	SE/49.2	116.5 / -1.28	**HINSPERGER POLY INDUSTRIES LTD** **645 NEEDHAM LANE** **MISSISSAUGA ON L5A 1T9**	SCT

Established: 1976
Plant Size (ft²): 85000
Employment: 80

--Details--
Description: PLASTICS PRODUCTS, NOT ELSEWHERE CLASSIFIED
SIC/NAICS Code: 3089

Description: PLASTICS MATERIALS AND BASIC FORMS AND SHAPES
SIC/NAICS Code: 5162

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
2	2 of 3	SE/49.2	116.5 / -1.28	**Hinspergers Poly Industries** **645 Needham Lane** **Mississauga ON L5A 1T9**	SCT

Established: 01-AUG-76
Plant Size (ft²): 85000
Employment:

--Details--
Description: All Other Textile Product Mills
SIC/NAICS Code: 314990

Description: Textile Bag and Canvas Mills
SIC/NAICS Code: 314910

Description: All Other Plastic Product Manufacturing
SIC/NAICS Code: 326198

Description: Plastic Film and Sheet Manufacturing
SIC/NAICS Code: 326114

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
2	3 of 3	SE/49.2	116.5 / -1.28	Hinspergers Poly Industries Ltd. 645 Needham Lane Mississauga ON L5A 1T9	SCT

Established: 1976
Plant Size (ft²): 85000
Employment: 80

--Details--
Description: Textile Bag and Canvas Mills
SIC/NAICS Code: 314910

Description: All Other Textile Product Mills
SIC/NAICS Code: 314990

Description: Unsupported Plastic Film and Sheet Manufacturing
SIC/NAICS Code: 326114

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
3	1 of 1	NE/76.3	117.9 / 0.14	2526 CAWTHRA RD. MISSISSAUGA ON	WWIS

Well ID: 7116747
Construction Date:
Primary Water Use: Test Hole
Sec. Water Use:
Final Well Status: Test Hole
Water Type:
Casing Material:
Audit No: Z81549
Tag: A068052
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src:
Date Received: 12/18/2008
Selected Flag: TRUE
Abandonment Rec:
Contractor: 7215
Form Version: 7
Owner:
Street Name: 2526 CAWTHRA RD.
County: PEEL
Municipality: MISSISSAUGA CITY
Site Info:
Lot:
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/711\7116747.pdf

Additional Detail(s) (Map)

Well Completed Date: 2008/09/18
Year Completed: 2008
Depth (m): 3.6576
Latitude: 43.5926771795202
Longitude: -79.5986170364258
Path: 711\7116747.pdf

Bore Hole Information

Bore Hole ID: 1001912146
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:

Elevation:
Elevrc:
Zone: 17
East83: 613121.00
North83: 4827588.00
Org CS: UTM83
UTMRC: 3

Date Completed: 18-Sep-2008 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:
UTMRC Desc: margin of error : 10 - 30 m
Location Method: wwr

Overburden and Bedrock Materials Interval

Formation ID: 1002026481
Layer: 2
Color: 2
General Color: GREY
Mat1: 17
Most Common Material: SHALE
Mat2: 92
Mat2 Desc: WEATHERED
Mat3: 05
Mat3 Desc: CLAY
Formation Top Depth: 5.0
Formation End Depth: 11.5
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1002026480
Layer: 1
Color: 6
General Color: BROWN
Mat1: 01
Most Common Material: FILL
Mat2: 28
Mat2 Desc: SAND
Mat3: 91
Mat3 Desc: WATER-BEARING
Formation Top Depth: 0.0
Formation End Depth: 5.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1002026482
Layer: 3
Color: 2
General Color: GREY
Mat1: 26
Most Common Material: ROCK
Mat2:
Mat2 Desc:
Mat3: 91
Mat3 Desc: WATER-BEARING
Formation Top Depth: 11.5
Formation End Depth: 12.0
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1002026486
Layer: 3
Plug From: 1.0
Plug To: 0.0
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1002026484
Layer: 1
Plug From: 12.0
Plug To: 6.0
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1002026485
Layer: 2
Plug From: 6.0
Plug To: 1.0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 1002026491
Method Construction Code: 2
Method Construction: Rotary (Convent.)
Other Method Construction:

Pipe Information

Pipe ID: 1002026479
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1002026488
Layer:
Material:
Open Hole or Material:
Depth From:
Depth To:
Casing Diameter:
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 1002026489
Layer: 1
Slot: 10
Screen Top Depth: 7.0
Screen End Depth: 12.0
Screen Material: 5
Screen Depth UOM: ft

Screen Diameter UOM: inch
Screen Diameter: 2.0

Water Details

Water ID: 1002026487
Layer:
Kind Code:
Kind:
Water Found Depth:
Water Found Depth UOM: ft

Hole Diameter

Hole ID: 1002026483
Diameter: 4.0
Depth From: 12.0
Depth To: 0.0
Hole Depth UOM: ft
Hole Diameter UOM: inch

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4 | ***1 of 8*** | ***NE/111.2*** | ***117.0 / -0.77*** | ***Hawley Pontiac Buick Cadillac (1983) Ltd.***
2526 Cawthra Road CITY OF MISSISSAUGA
ON | ***EBR***

EBR Registry No: IA9E1727
Ministry Ref No: 8339599
Notice Type: Instrument Decision
Notice Stage:
Notice Date: April 04, 2000
Proposal Date: November 09, 1999
Year: 1999
Instrument Type: (EPA s. 9) - Approval for discharge into the natural environment other than water (i.e. Air)
Off Instrument Name:
Posted By:
Company Name: Hawley Pontiac Buick Cadillac (1983) Ltd.
Site Address:
Location Other:
Proponent Name:
Proponent Address: 225 Dundas Highway, East, Mississauga Ontario, L5A 1E8
Comment Period:
URL:

Site Location Details:

2526 Cawthra Road CITY OF MISSISSAUGA

Decision Posted:
Exception Posted:
Section:
Act 1:
Act 2:
Site Location Map:

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4 | ***2 of 8*** | ***NE/111.2*** | ***117.0 / -0.77*** | ***Hawley Pontiac Buick Cadillac (1983) Ltd.***
2526 Cawthra Road Mississauga Ontario L5A 2X3 Mississauga
ON | ***EBR***

EBR Registry No: IA05E0085
Ministry Ref No: 5057-68RRMB
Notice Type: Instrument Decision
Notice Stage:
Notice Date: October 24, 2006
Proposal Date: January 20, 2005
Year: 2005
Instrument Type: (EPA s. 9) - Approval for discharge into the natural environment other than water (i.e. Air)
Off Instrument Name:

Decision Posted:
Exception Posted:
Section:
Act 1:
Act 2:
Site Location Map:

Posted By:
Company Name: Hawley Pontiac Buick Cadillac (1983) Ltd.
Site Address:
Location Other:
Proponent Name:
Proponent Address: 225 Dundas Street East, Mississauga Ontario, L5A 1W8
Comment Period:
URL:

Site Location Details:

2526 Cawthra Road Mississauga Ontario L5A 2X3 Mississauga

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4 | ***3 of 8*** | ***NE/111.2*** | ***117.0 / -0.77*** | ***Hawley Pontiac Buick Cadillac (1983) Ltd.***
2526 Cawthra Road
Mississauga ON L5A 2X3 | ***CA***

Certificate #: 9925-6EWRH8
Application Year: 2005
Issue Date: 8/11/2005
Approval Type: Air
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

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4 | ***4 of 8*** | ***NE/111.2*** | ***117.0 / -0.77*** | ***HAWLEY COLLISION CENTRE INC.***
2526 CAWTHRA RD
MISSISSAUGA ON L5A 2X3 | ***EASR***

Approval No: R-001-6260393326
Status: REGISTERED
Date: 2012-10-27
Record Type: EASR
Link Source: MOFA
Project Type: Automotive Refinishing Facility
Full Address:
Approval Type: EASR-Automotive Refinishing Facility
SWP Area Name: Credit Valley
PDF URL:
PDF Site Location:

MOE District: Halton-Peel
Municipality: MISSISSAUGA
Latitude: 43.593086
Longitude: -79.598564
Geometry X:
Geometry Y:

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4 | ***5 of 8*** | ***NE/111.2*** | ***117.0 / -0.77*** | ***HAWLEY COLLISION CENTRE INC.***
2526 CAWTHRA RD
MISSISSAUGA ON L5A 2X3 | ***EASR***

Approval No: R-001-2260405981
Status: REGISTERED
Date: 2012-10-27
Record Type: EASR
Link Source: MOFA
Project Type: Automotive Refinishing Facility
Full Address:
Approval Type: EASR-Automotive Refinishing Facility

MOE District: Halton-Peel
Municipality: MISSISSAUGA
Latitude: 43.593086
Longitude: -79.598564
Geometry X:
Geometry Y:

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

SWP Area Name: Credit Valley
PDF URL:
PDF Site Location:

---

4 **6 of 8** **NE/111.2** **117.0 / -0.77** **Hawley Pontiac Buick Cadillac (1983) Ltd.** **ECA**
2526 Cawthra Road
Mississauga ON L5A 2X3

Approval No: 9925-6EWRH8
Approval Date: 2005-08-11
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name: Credit Valley
Approval Type: ECA-AIR
Project Type: AIR
Business Name: Hawley Pontiac Buick Cadillac (1983) Ltd.
Address: 2526 Cawthra Road
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/5057-68RRMB-14.pdf
PDF Site Location:

MOE District: Halton-Peel
City:
Longitude: -79.598564
Latitude: 43.593086
Geometry X:
Geometry Y:

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4 **7 of 8** **NE/111.2** **117.0 / -0.77** **IMPRO Construction Services Ltd** **GEN**
2526 Cawthra Rd
Mississauga ON L5A 3P2

Generator No: ON3694578
SIC Code:
SIC Description:
Approval Years: As of Jul 2020
PO Box No:
Country: Canada

Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 252 L
Waste Class Desc: Waste crankcase oils and lubricants

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4 **8 of 8** **NE/111.2** **117.0 / -0.77** **IMPRO Construction Services Ltd** **GEN**
2526 Cawthra Rd
Mississauga ON L5A 3P2

Generator No: ON3694578
SIC Code:
SIC Description:
Approval Years: As of Jan 2021
PO Box No:
Country: Canada

Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 252 L
Waste Class Desc: Waste crankcase oils and lubricants

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5 **1 of 2** **ENE/118.5** **116.9 / -0.88** **The Regional Municipality of Peel** **CA**
2500 Cawthra Rd
Mississauga ON L5A 2X3

Certificate #: 7915-7X2R33

Application Year:	2009
Issue Date:	10/22/2009
Approval Type:	Air
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

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5 | ***2 of 2*** | ***ENE/118.5*** | ***116.9 / -0.88*** | ***The Regional Municipality of Peel***
2500 Cawthra Rd
Mississauga ON L6T 4B9 | ***ECA***

Approval No:	7915-7X2R33	**MOE District:**	Halton-Peel
Approval Date:	2009-10-22	**City:**	
Status:	Approved	**Longitude:**	-79.597855
Record Type:	ECA	**Latitude:**	43.592644
Link Source:	IDS	**Geometry X:**	
SWP Area Name:	Credit Valley	**Geometry Y:**	
Approval Type:	ECA-AIR		
Project Type:	AIR		
Business Name:	The Regional Municipality of Peel		
Address:	2500 Cawthra Rd		
Full Address:			
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/2673-7UZLBQ-14.pdf		
PDF Site Location:			

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6 | ***1 of 3*** | ***NNE/159.1*** | ***118.5 / 0.73*** | ***LAFARGE CONSTRUCTION & MATERIALS***
2530 CAWTHRA Road
MISSISSAUGA ON L5A2W7 | ***NPRI***

NPRI ID:	8800000113	**Org ID:**	
Other ID:	*	**Submit Date:**	
No Other ID:		**Last Modified:**	
Track ID:		**Contact ID:**	
Report ID:		**Cont Type:**	
Report Type:		**Contact Title:**	
Rpt Type ID:		**Cont First Name:**	
Report Year:	2009	**Cont Last Name:**	
Not-Current Rpt?:		**Contact Position:**	
Yr of Last Filed Rpt:		**Contact Fax:**	
Fac ID:		**Contact Ph.:**	
Fac Name:	PETCH AGG SITE	**Cont Area Code:**	
Fac Address1:		**Contact Tel.:**	
Fac Address2:		**Contact Ext.:**	
Fac Postal Zip:		**Cont Fax Area Cde:**	
Facility Lat:		**Contact Fax:**	
Facility Long:		**Contact Email:**	
DLS (Last Filed Rpt):		**Latitude:**	
Facility DLS:		**Longitude:**	
Datum:		**UTM Zone:**	
Facility Cmnts:	No	**UTM Northing:**	
URL:		**UTM Easting:**	
No of Empl.:	0	**Waste Streams:**	No
Parent Co.:	*	**No Streams:**	
No Parent Co.:		**Waste Off Sites:**	No
Pollut Prev Cmnts:	No	**No Off Sites:**	
Stacks:	No	**Shutdown:**	No

No of Stacks: ***No of Shutdown:***
Canadian SIC Code (2 digit):
Canadian SIC Code:
SIC Code Description:
American SIC Code:
NAICS Code (2 digit):
NAICS 2 Description:
NAICS Code (4 digit):
NAICS 4 Description:
NAICS Code (6 digit):
NAICS 6 Description:

---

6 | ***2 of 3*** | ***NNE/159.1*** | ***118.5 / 0.73*** | ***LAFARGE CONSTRUCTION & MATERIALS***
2530 CAWTHRA Road
MISSISSAUGA ON L5A2W7 | ***NPRI***

NPRI ID:	8800001097	***Org ID:***	
Other ID:		***Submit Date:***	
No Other ID:		***Last Modified:***	
Track ID:		***Contact ID:***	
Report ID:		***Cont Type:***	MED
Report Type:		***Contact Title:***	Mr.
Rpt Type ID:		***Cont First Name:***	TOM
Report Year:	2004	***Cont Last Name:***	BAUMGARTEN
Not-Current Rpt?:		***Contact Position:***	Environmental Compliance Manager
Yr of Last Filed Rpt:		***Contact Fax:***	
Fac ID:		***Contact Ph.:***	
Fac Name:	PETCH AGG SITE	***Cont Area Code:***	905
Fac Address1:		***Contact Tel.:***	7387070
Fac Address2:		***Contact Ext.:***	
Fac Postal Zip:		***Cont Fax Area Cde:***	905
Facility Lat:		***Contact Fax:***	7387080
Facility Long:		***Contact Email:***	tom.baumgarten@lafarge-na.com
DLS (Last Filed Rpt):		***Latitude:***	
Facility DLS:		***Longitude:***	
Datum:		***UTM Zone:***	
Facility Cmnts:		***UTM Northing:***	
URL:		***UTM Easting:***	
No of Empl.:	2	***Waste Streams:***	
Parent Co.:		***No Streams:***	
No Parent Co.:		***Waste Off Sites:***	
Pollut Prev Cmnts:		***No Off Sites:***	
Stacks:		***Shutdown:***	
No of Stacks:		***No of Shutdown:***	
Canadian SIC Code (2 digit):			
Canadian SIC Code:			
SIC Code Description:			
American SIC Code:			
NAICS Code (2 digit):	21		
NAICS 2 Description:	Mining, Quarrying, and Oil and Gas Extraction		
NAICS Code (4 digit):	2123		
NAICS 4 Description:	Non-Metallic Mineral Mining and Quarrying		
NAICS Code (6 digit):	212323		
NAICS 6 Description:	Sand and Gravel Mining and Quarrying		

Substance Release Report

CAS No:	7446-09-5
Report ID:	
Rpt Period:	2004
Subst Released:	Sulphur dioxide
Air:	
Water:	
Land:	

Total Releases:
Units: tonnes

CAS No: 74-82-8
Report ID:
Rpt Period: 2004
Subst Released: Methane
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: 630-08-0
Report ID:
Rpt Period: 2004
Subst Released: Carbon monoxide
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: 811-97-2
Report ID:
Rpt Period: 2004
Subst Released: HFC-134a Hydrofluorocarbon
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: NA - M10
Report ID:
Rpt Period: 2004
Subst Released: PM2.5 - Particulate Matter <= 2.5 Microns
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: 124-38-9
Report ID:
Rpt Period: 2004
Subst Released: Carbon dioxide
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: 10024-97-2
Report ID:
Rpt Period: 2004
Subst Released: Nitrous oxide
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: NA - M16
Report ID:
Rpt Period: 2004

Subst Released:	Volatile Organic Compounds (VOCs)
Air:	
Water:	
Land:	
Total Releases:	
Units:	tonnes
CAS No:	11104-93-1
Report ID:	
Rpt Period:	2004
Subst Released:	Nitrogen oxides (expressed as NO2)
Air:	
Water:	
Land:	
Total Releases:	
Units:	tonnes
CAS No:	NA - M09
Report ID:	
Rpt Period:	2004
Subst Released:	PM10 - Particulate Matter <= 10 Microns
Air:	.011
Water:	
Land:	
Total Releases:	.011
Units:	tonnes
CAS No:	NA - M08
Report ID:	
Rpt Period:	2004
Subst Released:	PM - Total Particulate Matter
Air:	
Water:	
Land:	
Total Releases:	
Units:	tonnes

6 | ***3 of 3*** | ***NNE/159.1*** | ***118.5 / 0.73*** | ***LAFARGE CONSTRUCTION & MATERIALS***
2530 CAWTHRA Road
MISSISSAUGA ON L5A2W7 | ***NPRI***

NPRI ID:	8800000050	**Org ID:**	
Other ID:		**Submit Date:**	
No Other ID:		**Last Modified:**	
Track ID:		**Contact ID:**	
Report ID:		**Cont Type:**	MED
Report Type:		**Contact Title:**	Mr.
Rpt Type ID:		**Cont First Name:**	TOM
Report Year:	2006	**Cont Last Name:**	BAUMGARTEN
Not-Current Rpt?:		**Contact Position:**	Environmental Compliance Manager
Yr of Last Filed Rpt:		**Contact Fax:**	
Fac ID:		**Contact Ph.:**	
Fac Name:	PETCH AGG SITE	**Cont Area Code:**	905
Fac Address1:		**Contact Tel.:**	7387070
Fac Address2:		**Contact Ext.:**	
Fac Postal Zip:		**Cont Fax Area Cde:**	905
Facility Lat:		**Contact Fax:**	7387080
Facility Long:		**Contact Email:**	tom.baumgarten@lafarge-na.com
DLS (Last Filed Rpt):		**Latitude:**	
Facility DLS:		**Longitude:**	
Datum:		**UTM Zone:**	
Facility Cmnts:		**UTM Northing:**	
URL:		**UTM Easting:**	
No of Empl.:	2	**Waste Streams:**	
Parent Co.:		**No Streams:**	

No Parent Co.: ***Waste Off Sites:***
Pollut Prev Cmnts: ***No Off Sites:***
Stacks: ***Shutdown:***
No of Stacks: ***No of Shutdown:***
Canadian SIC Code (2 digit):
Canadian SIC Code:
SIC Code Description:
American SIC Code:
NAICS Code (2 digit): 21
NAICS 2 Description: Mining, Quarrying, and Oil and Gas Extraction
NAICS Code (4 digit): 2123
NAICS 4 Description: Non-Metallic Mineral Mining and Quarrying
NAICS Code (6 digit): 212323
NAICS 6 Description: Sand and Gravel Mining and Quarrying

Substance Release Report

CAS No: NA - M09
Report ID:
Rpt Period: 2006
Subst Released: PM10 - Particulate Matter <= 10 Microns
Air:
Water:
Land:
Total Releases: 0
Units: tonnes

CAS No: NA - M08
Report ID:
Rpt Period: 2006
Subst Released: PM - Total Particulate Matter
Air:
Water:
Land:
Total Releases: 0
Units: tonnes

CAS No: NA - M10
Report ID:
Rpt Period: 2006
Subst Released: PM2.5 - Particulate Matter <= 2.5 Microns
Air:
Water:
Land:
Total Releases: 0
Units: tonnes

7	*1 of 32*	*SE/162.4*	*114.9 / -2.91*	***INDUSTRIAL PLASTIC FABRICATORS LTD.*** ***2480 CAWTHRA ROAD, UNIT # 25*** ***MISSISSAUGA CITY ON L5A 2X2***	*CA*

Certificate #: 8-3300-90-
Application Year: 90
Issue Date: 1/14/1991
Approval Type: Industrial air
Status: Approved in 1991
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description: LOCAL VENT. OF FIBERGLASS LAM. AREA
Contaminants: Styrene
Emission Control: No Controls

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
7	2 of 32	SE/162.4	114.9 / -2.91	DRIVER-BIT TOOLS 2480 CAWTHRA RD UNIT 17 MISSISSAUGA ON L5A 2X2	SCT

Established: 0000
Plant Size (ft²): 9000
Employment: 9

--Details--
Description: Cutlery and Hand Tool Manufacturing
SIC/NAICS Code: 332210

Description: Other Metalworking Machinery Manufacturing
SIC/NAICS Code: 333519

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
7	3 of 32	SE/162.4	114.9 / -2.91	Casa Toste Ltd. 2480 Cawthra Rd Unit 2-3 Mississauga ON L5A 2X2	SCT

Established: 1990
Plant Size (ft²):
Employment: 3

--Details--
Description: Seafood Product Preparation and Packaging
SIC/NAICS Code: 311710

Description: Commercial Bakeries and Frozen Bakery Product Manufacturing
SIC/NAICS Code: 311814

Description: Other Specialty-Line Food Wholesaler-Distributors
SIC/NAICS Code: 413190

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
7	4 of 32	SE/162.4	114.9 / -2.91	VALUE PRINTING SERVICE 2480 CAWTHRA RD UNIT 11 MISSISSAUGA ON L5A 2X2	SCT

Established: 1986
Plant Size (ft²): 3000
Employment: 3

--Details--
Description: COMMERCIAL PRINTING, NOT ELSEWHERE CLASSIFIED
SIC/NAICS Code: 2759

Description: TYPESETTING
SIC/NAICS Code: 2791

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
7	5 of 32	SE/162.4	114.9 / -2.91	GBS BARBECUES INC. 2480 CAWTHRA RD UNIT 27 MISSISSAUGA ON L5A 2X2	SCT

Established: 1990
Plant Size (ft²): 3000
Employment: 10

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

--Details--
Description: Commercial and Service Industry Machinery Manufacturing
SIC/NAICS Code: 333310

Description: Other Major Appliance Manufacturing
SIC/NAICS Code: 335229

Description: SERVICE INDUSTRY MACHINERY, NOT ELSEWHERE CLASSIFIED
SIC/NAICS Code: 3589

Description: HOUSEHOLD COOKING EQUIPMENT
SIC/NAICS Code: 3631

Description: COMMERCIAL EQUIPMENT, NOT ELSEWHERE CLASSIFIED
SIC/NAICS Code: 5046

Description: NONDURABLE GOODS, NOT ELSEWHERE CLASSIFIED
SIC/NAICS Code: 5199

7	***6 of 32***	***SE/162.4***	***114.9 / -2.91***	***Costa Produce Ltd.*** ***2480 Cawthra Rd Unit 8-9*** ***Mississauga ON L5A 2X2***	***SCT***

Established: 01-AUG-94
Plant Size (ft²): 6000
Employment:

--Details--
Description: All Other Food Manufacturing
SIC/NAICS Code: 311990

7	***7 of 32***	***SE/162.4***	***114.9 / -2.91***	***CONCEPT CAPITAL INC.*** ***2480 CAWTHRA RD UNIT 27*** ***MISSISSAUGA ON L5A 2X2***	***SCT***

Established: 1990
Plant Size (ft²): 0
Employment: 120

--Details--
Description: FABRICATED RUBBER PRODUCTS, NOT ELSEWHERE CLASSIFIED
SIC/NAICS Code: 3069

Description: PLASTICS PRODUCTS, NOT ELSEWHERE CLASSIFIED
SIC/NAICS Code: 3089

Description: SHEET METAL WORK
SIC/NAICS Code: 3444

7	***8 of 32***	***SE/162.4***	***114.9 / -2.91***	***ASTROGRAPHIC PRINTING*** ***2480 CAWTHRA RD*** ***MISSISSAUGA ON L5A 2X2***	***SCT***

Established: 1973
Plant Size (ft²): 7000
Employment: 4

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

--Details--
Description: COMMERCIAL PRINTING, LITHOGRAPHIC
SIC/NAICS Code: 2752

Description: COMMERCIAL PRINTING, N.E.C.
SIC/NAICS Code: 2759

7	9 of 32	SE/162.4	114.9 / -2.91	F GARCIA MEAT PRODUCTS 2480 CAWTHRA RD MISSISSAUGA ON L5A 2X2	SCT

Established: 1988
Plant Size (ft²): 2500
Employment: 3

--Details--
Description: SAUSAGES & OTHER PREPARED MEAT PRODUCTS
SIC/NAICS Code: 2013

7	10 of 32	SE/162.4	114.9 / -2.91	Toste Wholesale Food Products 2480 Cawthra Rd Unit 3 Mississauga ON L5A 2X2	SCT

Established: 1989
Plant Size (ft²):
Employment:

--Details--
Description: Commercial Bakeries and Frozen Bakery Product Manufacturing
SIC/NAICS Code: 311814

Description: Other Specialty-Line Food Wholesaler-Distributors
SIC/NAICS Code: 413190

7	11 of 32	SE/162.4	114.9 / -2.91	Associated Sanitation Inc. 2480 Cawthra Rd Unit 26 Mississauga ON L5A 2X2	SCT

Established: 01-AUG-78
Plant Size (ft²): 5000
Employment:

--Details--
Description: Soap and Cleaning Compound Manufacturing
SIC/NAICS Code: 325610

Description: Soap and Cleaning Compound Manufacturing
SIC/NAICS Code: 325610

Description: Toiletries, Cosmetics and Sundries Wholesaler-Distributors
SIC/NAICS Code: 414520

7	12 of 32	SE/162.4	114.9 / -2.91	MACHINE TOOL TECH. DIVISION OF PROCOR LTD. 2480 CAWTHRA RD. UNIT 17	GEN

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
				MISSISSAUGA ON L5A 2X2	

Generator No: ON0143405
SIC Code: 3081
SIC Description: MACHINE SHOP IND.
Approval Years: 88
PO Box No:
Country:

Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

7	13 of 32	SE/162.4	114.9 / -2.91	MACHINE (SEE&USE ON0150902) ROBERTSON WHITEHOUSE 2480 CAWTHRA RD. UNIT 17 MISSISSAUGA ON L5A 2X2	GEN

Generator No: ON0143405
SIC Code: 3081
SIC Description: MACHINE SHOP IND.
Approval Years: 89,90,98
PO Box No:
Country:

Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

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

7	14 of 32	SE/162.4	114.9 / -2.91	MACHINE (SEE&USE ON0150902) 25-409 ROBERTSON WHITEHOUSE 2480 CAWTHRA RD. UNIT 17 MISSISSAUGA ON L5A 2X2	GEN

Generator No: ON0143405
SIC Code: 3081
SIC Description: MACHINE SHOP IND.
Approval Years: 92,93,94,95,96,97
PO Box No:
Country:

Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

7	15 of 32	SE/162.4	114.9 / -2.91	MACHINE TOOL TECH-DIV. OF ROBERTSON WHITEHOUSE INC. 2480 CAWTHRA RD. UNIT 17 MISSISSAUGA ON L5A 2X2	GEN

Generator No: ON0150902
SIC Code: 3081
SIC Description: MACHINE SHOP IND.
Approval Years: 89,90
PO Box No:
Country:

Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

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

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

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

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7 **16 of 32** **SE/162.4** **114.9 / -2.91** **GEN**

MAC TOOL TECHNOLOGIES
2480 CAWTHRA ROAD, UNIT 17
MISSISSAUGA ON L5A 2X2

Generator No: ON0150902
SIC Code: 3081
SIC Description: MACHINE SHOP IND.
Approval Years: 92,93,96,97
PO Box No:
Country:

Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

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

Waste Class: 253
Waste Class Desc: EMULSIFIED OILS

---

7 **17 of 32** **SE/162.4** **114.9 / -2.91** **GEN**

MACHINE TOOL TECH-DIV. OF 25-407
ROBERTSON WHITEHOUSE INC. 2480
CAWTHRA RD. UNIT 17
MISSISSAUGA ON L5A 2X2

Generator No: ON0150902
SIC Code: 3081
SIC Description: MACHINE SHOP IND.
Approval Years: 94,95
PO Box No:
Country:

Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

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

Waste Class: 253
Waste Class Desc: EMULSIFIED OILS

---

7 **18 of 32** **SE/162.4** **114.9 / -2.91** **GEN**

MAC TOOL TECHNOLOGIES
2480 CAWTHRA ROAD UNIT 17
MISSISSAUGA ON L5A 2X2

Generator No: ON0150902
SIC Code: 3081
SIC Description: MACHINE SHOP IND.
Approval Years: 98
PO Box No:
Country:

Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

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

Detail(s)

Waste Class: 253
Waste Class Desc: EMULSIFIED OILS

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

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

---

7 ***19 of 32*** ***SE/162.4*** ***114.9 / -2.91*** ***MAC TOO(OUT OF BUSINESS)*** ***GEN***
2480 CAWTHRA ROAD UNIT 17
MISSISSAUGA ON L5A 2X2

Generator No: ON0150902
SIC Code: 3081
SIC Description: MACHINE SHOP IND.
Approval Years: 99,00
PO Box No:
Country:

Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

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

Waste Class: 253
Waste Class Desc: EMULSIFIED OILS

---

7 ***20 of 32*** ***SE/162.4*** ***114.9 / -2.91*** ***NORDTECH INC.*** ***GEN***
2480 CAWTHRA RD.
MISSISSAUGA ON L5A 2X2

Generator No: ON0859700
SIC Code: 3081
SIC Description: MACHINE SHOP IND.
Approval Years: 86,87,88,89,90
PO Box No:
Country:

Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

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

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7 ***21 of 32*** ***SE/162.4*** ***114.9 / -2.91*** ***NORDTECH INC.(OUT OF BUSINESS) 28-370*** ***GEN***
2480 CAWTHRA RD.
MISSISSAUGA ON L5A 2X2

Generator No: ON0859700
SIC Code: 3081
SIC Description: MACHINE SHOP IND.
Approval Years: 92,93,94,95,96,97,98
PO Box No:
Country:

Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

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

Detail(s)

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

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

---

7 ***22 of 32*** ***SE/162.4*** ***114.9 / -2.91*** ***MACHINE TOOL (SEE & USE ON0143405)***
2480 CAWTHRA RD., UNIT 17
MISSISSAUGA ON L5A 2X2 ***GEN***

Generator No: ON1003300
SIC Code: 3081
SIC Description: MACHINE SHOP IND.
Approval Years: 88,89,90
PO Box No:
Country:

Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

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7 ***23 of 32*** ***SE/162.4*** ***114.9 / -2.91*** ***MACHINE TOOL (SEE & USE ON0143405)25-409***
2480 CAWTHRA RD., UNIT 17
MISSISSAUGA ON L5A 2X2 ***GEN***

Generator No: ON1003300
SIC Code: 3081
SIC Description: MACHINE SHOP IND.
Approval Years: 92,93,94,95,96,97,98
PO Box No:
Country:

Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

---

7 ***24 of 32*** ***SE/162.4*** ***114.9 / -2.91*** ***VALUE PRINTING SERVICE***
2480 CAWTHRA ROAD, UNIT #11
MISSISSAUGA ON L5A 2X2 ***GEN***

Generator No: ON1927100
SIC Code: 2821
SIC Description: PLATEMAKING, ETC.
Approval Years: 94,95,96,97,98
PO Box No:
Country:

Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 264
Waste Class Desc: PHOTOPROCESSING WASTES

---

7 ***25 of 32*** ***SE/162.4*** ***114.9 / -2.91*** ***VALUE PRINTING SERVICE***
2480 CAWTHRA ROAD, UNIT 11
MISSISSAUGA ON L5A 2X2 ***GEN***

Generator No: ON1927100
SIC Code: 2821
SIC Description: PLATEMAKING, ETC.

Status:
Co Admin:
Choice of Contact:

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

Approval Years: 99,00,01
PO Box No:
Country:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 264
Waste Class Desc: PHOTOPROCESSING WASTES

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7 | **26 of 32** | **SE/162.4** | **114.9 / -2.91** | **Costa Produce Ltd.**
2480 Cawthra Road 2480 CAWTHRA ROAD
Mississauga ON L5A 2X2 | **SPL**

Ref No: 0726-6PPQUH
Site No:
Incident Dt: 5/11/2006
Year:
Incident Cause: Other Discharges
Incident Event:
Contaminant Code: 45
Contaminant Name: Sanitary sewage
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Environment Impact: Possible
Nature of Impact: Surface Water Pollution
Receiving Medium: Water
Receiving Env:
MOE Response:
Dt MOE Arvl on Scn:
MOE Reported Dt: 5/11/2006
Dt Document Closed:
Incident Reason: Unknown - Reason not determined
Site Name: 2480 CAWTHRA ROAD
Site County/District:
Site Geo Ref Meth:
Incident Summary: Mississauga: Sanitary H2O surging out of manhole
Contaminant Qty: not specified not specified

Discharger Report:
Material Group: Wastes
Health/Env Conseq:
Client Type:
Sector Type: Sewer
Agency Involved:
Nearest Watercourse:
Site Address: 2480 CAWTHRA ROAD
Site District Office: Halton-Peel
Site Postal Code:
Site Region:
Site Municipality: Mississauga
Site Lot:
Site Conc:
Northing: NA
Easting: NA
Site Geo Ref Accu:
Site Map Datum:
SAC Action Class:
Source Type:

---

7 | **27 of 32** | **SE/162.4** | **114.9 / -2.91** | **Toste Bakery Ltd.**
2480 Cawthra Rd Unit 2
Mississauga ON L5A 2X2 | **SCT**

Established: 9/1/1989
Plant Size (ft²):
Employment:

--Details--
Description: Other Specialty-Line Food Wholesaler-Distributors
SIC/NAICS Code: 413190

Description: Other Specialty-Line Food Wholesaler-Distributors
SIC/NAICS Code: 413190

Description: Commercial Bakeries and Frozen Bakery Product Manufacturing
SIC/NAICS Code: 311814

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7 | **28 of 32** | **SE/162.4** | **114.9 / -2.91** | **Mississauga Hydraulics Ltd.**
2480 Cawthra Rd Unit 32
Mississauga ON L5A 2X2 | **SCT**

Established: 01-JUN-88
Plant Size (ft²): 6000
Employment:

--Details--
Description: Industrial Machinery, Equipment and Supplies Wholesaler-Distributors
SIC/NAICS Code: 417230

Description: All Other General-Purpose Machinery Manufacturing
SIC/NAICS Code: 333990

Description: Metal Valve Manufacturing
SIC/NAICS Code: 332910

Description: All Other General-Purpose Machinery Manufacturing
SIC/NAICS Code: 333990

Description: Measuring, Medical and Controlling Devices Manufacturing
SIC/NAICS Code: 334512

Description: Commercial and Industrial Machinery and Equipment (except Automotive and Electronic) Repair and Maintenance
SIC/NAICS Code: 811310

Description: Engineering Services
SIC/NAICS Code: 541330

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7 | **29 of 32** | **SE/162.4** | **114.9 / -2.91** | **2480 Cawthra Road Mississauga ON** | **SPL**

Ref No: 2235-AAPREN
Site No: NA
Incident Dt: 2016/06/07
Year:
Incident Cause:
Incident Event: Leak/Break
Contaminant Code: 99
Contaminant Name: WATER
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Environment Impact:
Nature of Impact:
Receiving Medium:
Receiving Env: Land
MOE Response: No
Dt MOE Arvl on Scn:
MOE Reported Dt: 2016/06/07
Dt Document Closed:
Incident Reason: Unknown / N/A
Site Name: Manhole<UNOFFICIAL>
Site County/District:
Site Geo Ref Meth:
Incident Summary: Manhole overflow due to clogged street line
Contaminant Qty: 0 other - see incident description

Discharger Report:
Material Group:
Health/Env Conseq:
Client Type:
Sector Type: Unknown / N/A
Agency Involved:
Nearest Watercourse:
Site Address: 2480 Cawthra Road
Site District Office:
Site Postal Code:
Site Region:
Site Municipality: Mississauga
Site Lot:
Site Conc:
Northing:
Easting:
Site Geo Ref Accu:
Site Map Datum:
SAC Action Class: Watercourse Spills
Source Type:

---

7 | **30 of 32** | **SE/162.4** | **114.9 / -2.91** | **2480 Cawthra Road Mississauga ON** | **SPL**

Ref No: 3481-ABNM8N
Site No: NA
Incident Dt: 2016/07/08

Discharger Report:
Material Group:
Health/Env Conseq:

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

Year:		**Client Type:**	
Incident Cause:		**Sector Type:**	Miscellaneous Industrial
Incident Event:	Overflow/Surcharge	**Agency Involved:**	
Contaminant Code:	44	**Nearest Watercourse:**	
Contaminant Name:	SEWAGE,RAW UNCHLORINATED	**Site Address:**	2480 Cawthra Road
Contaminant Limit 1:		**Site District Office:**	
Contam Limit Freq 1:		**Site Postal Code:**	
Contaminant UN No 1:		**Site Region:**	
Environment Impact:		**Site Municipality:**	Mississauga
Nature of Impact:		**Site Lot:**	
Receiving Medium:		**Site Conc:**	
Receiving Env:	Surface Water; Source Water Zone	**Northing:**	4827486
MOE Response:	No	**Easting:**	613243
Dt MOE Arvl on Scn:		**Site Geo Ref Accu:**	
MOE Reported Dt:	2016/07/08	**Site Map Datum:**	
Dt Document Closed:	2016/07/14	**SAC Action Class:**	Watercourse Spills
Incident Reason:	Unknown / N/A	**Source Type:**	
Site Name:	municipal infrastructure<UNOFFICIAL>		
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	RofPeel: WWC sanitary main surcharge; cntnd & investigating		
Contaminant Qty:	0 other - see incident description		

7	31 of 32	SE/162.4	114.9 / -2.91	**Mahmoud Bdeir at Al-Amana Wholesale** **Unit 19 - 2480 Cawthra Rd** **Mississauga ON L5A 2X2**	SPL

Ref No:	6660-BCMVGA	**Discharger Report:**	
Site No:	0353-6PQRJS	**Material Group:**	
Incident Dt:	5/29/2019	**Health/Env Conseq:**	2 - Minor Environment
Year:		**Client Type:**	Other (Describe)
Incident Cause:		**Sector Type:**	Unknown / N/A
Incident Event:	Leak/Break	**Agency Involved:**	
Contaminant Code:	46	**Nearest Watercourse:**	
Contaminant Name:	BRINE WATER	**Site Address:**	Unit 19 - 2480 Cawthra Rd
Contaminant Limit 1:		**Site District Office:**	Halton-Peel
Contam Limit Freq 1:		**Site Postal Code:**	L5A 2X2
Contaminant UN No 1:	n/a	**Site Region:**	Central
Environment Impact:		**Site Municipality:**	Mississauga
Nature of Impact:		**Site Lot:**	
Receiving Medium:		**Site Conc:**	NA
Receiving Env:	Land	**Northing:**	NA
MOE Response:	No	**Easting:**	NA
Dt MOE Arvl on Scn:		**Site Geo Ref Accu:**	NA
MOE Reported Dt:	5/29/2019	**Site Map Datum:**	NA
Dt Document Closed:		**SAC Action Class:**	Land Spills
Incident Reason:	Material Failure - Poor Design/Substandard Material	**Source Type:**	Container/Drum/Tote
Site Name:	2480 Cawthra Road		
Site County/District:	Regional Municipality of Peel		
Site Geo Ref Meth:	NA		
Incident Summary:	Al-Amana Wholesale: ~ 100 L of pickel huice to ground and prvt CB, clnd		
Contaminant Qty:	100 L		

7	32 of 32	SE/162.4	114.9 / -2.91	**2480 Cawthra Rd. Unit #19** **Mississauga ON**	SPL

Ref No:	8385-BCMPQ5	**Discharger Report:**	
Site No:	NA	**Material Group:**	
Incident Dt:	5/29/2019	**Health/Env Conseq:**	
Year:		**Client Type:**	
Incident Cause:		**Sector Type:**	

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

Incident Event:		**Agency Involved:**	
Contaminant Code:		**Nearest Watercourse:**	
Contaminant Name:		**Site Address:**	2480 Cawthra Rd. Unit #19
Contaminant Limit 1:		**Site District Office:**	Halton-Peel
Contam Limit Freq 1:		**Site Postal Code:**	
Contaminant UN No 1:		**Site Region:**	Central
Environment Impact:		**Site Municipality:**	Mississauga
Nature of Impact:		**Site Lot:**	
Receiving Medium:		**Site Conc:**	
Receiving Env:		**Northing:**	
MOE Response:	No	**Easting:**	
Dt MOE Arvl on Scn:		**Site Geo Ref Accu:**	
MOE Reported Dt:	5/29/2019	**Site Map Datum:**	
Dt Document Closed:	5/30/2019	**SAC Action Class:**	Pollution Incident Reports (PIRs) and "Other" calls
Incident Reason:		**Source Type:**	
Site Name:	Residential Rental Units<UNOFFICIAL>		
Site County/District:	Regional Municipality of Peel		
Site Geo Ref Meth:			
Incident Summary:	PIR: Tenant Dumping Rotting Food into Bin, Bin Leaking into Drain		
Contaminant Qty:			

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8 **1 of 21** **NW/165.3** **119.8 / 2.06** **LANSING LUMBER (DUNDAS) LTD.**
650 DUNDAS STREET EAST
MISSISSAUGA ON L5A 3Y6 **PES**

Detail Licence No:		**Operator Box:**	
Licence No:		**Operator Class:**	
Status:		**Operator No:**	
Approval Date:		**Operator Type:**	
Report Source:		**Oper Area Code:**	
Licence Type:	Vendor	**Oper Phone No:**	
Licence Type Code:		**Operator Ext:**	
Licence Class:		**Operator Lot:**	
Licence Control:		**Oper Concession:**	
Latitude:		**Operator Region:**	
Longitude:		**Operator District:**	
Lot:		**Operator County:**	
Concession:		**Op Municipality:**	
Region:		**Post Office Box:**	
District:		**MOE District:**	
County:		**SWP Area Name:**	
Trade Name:			
PDF Link:			
PDF Site Location:			

---

8 **2 of 21** **NW/165.3** **119.8 / 2.06** **650 Dundas St. E**
Mississauga ON L5A 3Y6 **EHS**

Order No:	20010515008	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Basic Report	**Client Prov/State:**	ON
Report Date:	5/25/01	**Search Radius (km):**	0.25
Date Received:	5/15/01	**X:**	-79.600372
Previous Site Name:		**Y:**	43.594128
Lot/Building Size:			
Additional Info Ordered:			

---

8 **3 of 21** **NW/165.3** **119.8 / 2.06** **REVY HOME CENTRES INC.**
650 DUNDAS STREET EAST **PES**

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

MISSISSAUGA ON L5A3Y6

Detail Licence No:	23-01-11434-0	***Operator Box:***	
Licence No:	11434	***Operator Class:***	
Status:		***Operator No:***	
Approval Date:		***Operator Type:***	
Report Source:	Legacy Licenses (Excluding TS)	***Oper Area Code:***	905
Licence Type:	Limited Vendor	***Oper Phone No:***	2766350
Licence Type Code:	23	***Operator Ext:***	
Licence Class:	01	***Operator Lot:***	
Licence Control:	0	***Oper Concession:***	
Latitude:		***Operator Region:***	3
Longitude:		***Operator District:***	1
Lot:		***Operator County:***	28
Concession:		***Op Municipality:***	
Region:		***Post Office Box:***	
District:		***MOE District:***	
County:		***SWP Area Name:***	
Trade Name:			
PDF Link:			
PDF Site Location:			

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8 ***4 of 21*** ***NW/165.3*** ***119.8 / 2.06*** ***RONA INC*** ***PES***
650 DUNDAS ST E
MISSISSAUGA ON L5A3Y6

Detail Licence No:		***Operator Box:***	
Licence No:	12146	***Operator Class:***	
Status:		***Operator No:***	
Approval Date:		***Operator Type:***	
Report Source:	Legacy Licenses (Excluding TS)	***Oper Area Code:***	905
Licence Type:	Limited Vendor	***Oper Phone No:***	2766350
Licence Type Code:	23	***Operator Ext:***	
Licence Class:	01	***Operator Lot:***	
Licence Control:		***Oper Concession:***	
Latitude:		***Operator Region:***	
Longitude:		***Operator District:***	
Lot:		***Operator County:***	
Concession:		***Op Municipality:***	
Region:		***Post Office Box:***	
District:		***MOE District:***	
County:		***SWP Area Name:***	
Trade Name:			
PDF Link:			
PDF Site Location:			

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8 ***5 of 21*** ***NW/165.3*** ***119.8 / 2.06*** ***LANSING BUILDALL*** ***GEN***
650 DUNDAS STREET EAST
MISSISSAUGA ON L5A 3Y6

Generator No:	ON2475104	***Status:***	
SIC Code:	5211	***Co Admin:***	
SIC Description:	CONFECTIONERY, WH.	***Choice of Contact:***	
Approval Years:	99,00,01	***Phone No Admin:***	
PO Box No:		***Contam. Facility:***	
Country:		***MHSW Facility:***	

Detail(s)

Waste Class:	148
Waste Class Desc:	INORGANIC LABORATORY CHEMICALS

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

Waste Class: 242
Waste Class Desc: HALOGENATED PESTICIDES

Waste Class: 263
Waste Class Desc: ORGANIC LABORATORY CHEMICALS

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8 **6 of 21** **NW/165.3** **119.8 / 2.06**

RONA ONTARIO INC.
RONA-LANSING 650 DUNDAS STREET EAST
MISSISSAUGA ON L5A 3Y6

GEN

Generator No: ON2475104
SIC Code:
SIC Description:
Approval Years: 02,03,04
PO Box No:
Country:

Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 242
Waste Class Desc: HALOGENATED PESTICIDES

Waste Class: 263
Waste Class Desc: ORGANIC LABORATORY CHEMICALS

---

8 **7 of 21** **NW/165.3** **119.8 / 2.06**

RONA ONTARIO INC
650 DUNDAS ST E
MISSISSAUGA ON L5A 3Y6

PES

Detail Licence No:
Licence No:
Status:
Approval Date:
Report Source:
Licence Type: Vendor
Licence Type Code:
Licence Class:
Licence Control:
Latitude:
Longitude:
Lot:
Concession:
Region:
District:
County:
Trade Name:
PDF Link:
PDF Site Location:

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

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8 **8 of 21** **NW/165.3** **119.8 / 2.06**

Rona Ontario Inc.
650 Dundas Street East
Mississauga ON L5A 3Y6

CA

Certificate #: 4187-6T5N2U
Application Year: 2006
Issue Date: 8/29/2006
Approval Type: Air
Status: Approved

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

Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

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8 | **9 of 21** | **NW/165.3** | **119.8 / 2.06** | **4536631 CANADA INC**
650 DUNDAS ST E
MISSISSAUGA ON L5A 3Y6 | **PES**

Detail Licence No:
Licence No:
Status:
Approval Date:
Report Source:
Licence Type: Vendor
Licence Type Code:
Licence Class:
Licence Control:
Latitude:
Longitude:
Lot:
Concession:
Region:
District:
County:
Trade Name:
PDF Link:
PDF Site Location:

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

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8 | **10 of 21** | **NW/165.3** | **119.8 / 2.06** | **RONA INC.**
650 Dundas Street East
Mississauga ON L5A3Y6 | **NPRI**

NPRI ID: 8800001680
Other ID:
No Other ID:
Track ID:
Report ID:
Report Type:
Rpt Type ID:
Report Year: 2004
Not-Current Rpt?:
Yr of Last Filed Rpt:
Fac ID:
Fac Name: RONA LANSING STORE # 55010
Fac Address1:
Fac Address2:
Fac Postal Zip:
Facility Lat:
Facility Long:
DLS (Last Filed Rpt):
Facility DLS:
Datum:
Facility Cmnts:
URL:
No of Empl.: 79
Parent Co.:
No Parent Co.:

Org ID:
Submit Date:
Last Modified:
Contact ID:
Cont Type: MED
Contact Title:
Cont First Name:
Cont Last Name:
Contact Position:
Contact Fax:
Contact Ph.:
Cont Area Code:
Contact Tel.:
Contact Ext.:
Cont Fax Area Cde:
Contact Fax:
Contact Email:
Latitude:
Longitude:
UTM Zone:
UTM Northing:
UTM Easting:
Waste Streams:
No Streams:
Waste Off Sites:

Pollut Prev Cmnts: ***No Off Sites:***
Stacks: ***Shutdown:***
No of Stacks: ***No of Shutdown:***
Canadian SIC Code (2 digit):
Canadian SIC Code:
SIC Code Description:
American SIC Code:
NAICS Code (2 digit): 53
NAICS 2 Description: Real Estate and Rental and Leasing
NAICS Code (4 digit): 5311
NAICS 4 Description: Lessors of Real Estate
NAICS Code (6 digit): 531120
NAICS 6 Description: Lessors of Non-Residential Buildings (except Mini-Warehouses)

Substance Release Report

CAS No: 811-97-2
Report ID:
Rpt Period: 2004
Subst Released: HFC-134a Hydrofluorocarbon
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: 10102-43-9
Report ID:
Rpt Period: 2004
Subst Released: Oxides of nitrogen (expressed as NO)
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: 7446-09-5
Report ID:
Rpt Period: 2004
Subst Released: Sulphur dioxide
Air:
Water:
Land:
Total Releases:
Units: tonnes

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8 ***11 of 21*** ***NW/165.3*** ***119.8 / 2.06*** ***RONA Inc.***
650 DUNDAS STREET EAST
MISSISSAUGA ON ***GEN***

Generator No: ON5202396 ***Status:***
SIC Code: 452991 ***Co Admin:***
SIC Description: HOME AND AUTO SUPPLIES STORES ***Choice of Contact:***
Approval Years: 2013 ***Phone No Admin:***
PO Box No: ***Contam. Facility:***
Country: ***MHSW Facility:***

Detail(s)

Waste Class: 122
Waste Class Desc: ALKALINE WASTES - OTHER METALS

Waste Class: 242

Waste Class Desc: HALOGENATED PESTICIDES

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

Waste Class: 263
Waste Class Desc: ORGANIC LABORATORY CHEMICALS

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

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8 | **12 of 21** | **NW/165.3** | **119.8 / 2.06** | **650 Dundas St E, Mississauga ON L5A3Y6** | **EHS**

Order No: 20141020069
Status: C
Report Type: Standard Report
Report Date: 27-OCT-14
Date Received: 20-OCT-14
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -79.600296
Y: 43.593635

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8 | **13 of 21** | **NW/165.3** | **119.8 / 2.06** | **Rona Ontario Inc., 650 Dundas St E, Mississauga ON J4B 8H7** | **ECA**

Approval No: 4187-6T5N2U
Approval Date: 2006-08-29
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
Approval Type: ECA-AIR
Project Type: AIR
Business Name: Rona Ontario Inc.
Address: 650 Dundas St E
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/5610-6R5PB3-14.pdf
PDF Site Location:

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

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8 | **14 of 21** | **NW/165.3** | **119.8 / 2.06** | **RONA Inc., 650 DUNDAS STREET EAST, MISSISSAUGA ON L5A 3V6** | **GEN**

Generator No: ON5202396
SIC Code: 452991
SIC Description: HOME AND AUTO SUPPLIES STORES
Approval Years: 2016
PO Box No:
Country: Canada

Status:
Co Admin:
Choice of Contact: CO_OFFICIAL
Phone No Admin:
Contam. Facility: No
MHSW Facility: No

Detail(s)

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

Waste Class: 148

Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 242
Waste Class Desc: HALOGENATED PESTICIDES

Waste Class: 122
Waste Class Desc: ALKALINE WASTES - OTHER METALS

Waste Class: 263
Waste Class Desc: ORGANIC LABORATORY CHEMICALS

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

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8 ***15 of 21*** ***NW/165.3*** ***119.8 / 2.06*** ***RONA Inc.***
650 DUNDAS STREET EAST
MISSISSAUGA ON L5A 3V6 ***GEN***

Generator No: ON5202396
SIC Code: 452991
SIC Description: HOME AND AUTO SUPPLIES STORES
Approval Years: 2015
PO Box No:
Country: Canada

Status:
Co Admin:
Choice of Contact: CO_OFFICIAL
Phone No Admin:
Contam. Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

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

Waste Class: 242
Waste Class Desc: HALOGENATED PESTICIDES

Waste Class: 122
Waste Class Desc: ALKALINE WASTES - OTHER METALS

Waste Class: 263
Waste Class Desc: ORGANIC LABORATORY CHEMICALS

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8 ***16 of 21*** ***NW/165.3*** ***119.8 / 2.06*** ***RONA Inc.***
650 DUNDAS STREET EAST
MISSISSAUGA ON L5A 3V6 ***GEN***

Generator No: ON5202396
SIC Code: 452991
SIC Description: HOME AND AUTO SUPPLIES STORES
Approval Years: 2014
PO Box No:
Country: Canada

Status:
Co Admin:
Choice of Contact: CO_OFFICIAL
Phone No Admin:
Contam. Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 122
Waste Class Desc: ALKALINE WASTES - OTHER METALS

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 263
Waste Class Desc: ORGANIC LABORATORY CHEMICALS

Waste Class: 242
Waste Class Desc: HALOGENATED PESTICIDES

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

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

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8 | **17 of 21** | **NW/165.3** | **119.8 / 2.06** | **RONA Inc.**
650 DUNDAS STREET EAST
MISSISSAUGA ON L5A 3V6 | **GEN**

Generator No: ON5202396
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada

Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 122 C
Waste Class Desc: Alkaline slutions - containing other metals and non-metals (not cyanide)

Waste Class: 145 I
Waste Class Desc: Wastes from the use of pigments, coatings and paints

Waste Class: 145 L
Waste Class Desc: Wastes from the use of pigments, coatings and paints

Waste Class: 146 T
Waste Class Desc: Other specified inorganic sludges, slurries or solids

Waste Class: 148 A
Waste Class Desc: Misc. wastes and inorganic chemicals

Waste Class: 148 C
Waste Class Desc: Misc. wastes and inorganic chemicals

Waste Class: 148 I
Waste Class Desc: Misc. wastes and inorganic chemicals

Waste Class: 148 T
Waste Class Desc: Misc. wastes and inorganic chemicals

Waste Class: 212 I
Waste Class Desc: Aliphatic solvents and residues

Waste Class: 221 I
Waste Class Desc: Light fuels

Waste Class: 242 A
Waste Class Desc: Halogenated pesticides and herbicides

Waste Class: 242 T
Waste Class Desc: Halogenated pesticides and herbicides

Waste Class: 252 L
Waste Class Desc: Waste crankcase oils and lubricants

Waste Class:	262 L
Waste Class Desc:	Detergents and soaps
Waste Class:	263 A
Waste Class Desc:	Misc. waste organic chemicals
Waste Class:	263 I
Waste Class Desc:	Misc. waste organic chemicals
Waste Class:	263 L
Waste Class Desc:	Misc. waste organic chemicals
Waste Class:	263 T
Waste Class Desc:	Misc. waste organic chemicals
Waste Class:	269 T
Waste Class Desc:	Organic non-halogenated pesticide and herbicide wastes
Waste Class:	331 I
Waste Class Desc:	Waste compressed gases including cylinders
Waste Class:	331 L
Waste Class Desc:	Waste compressed gases including cylinders

8 **18 of 21** **NW/165.3** **119.8 / 2.06** **LANSING LUMBER (DUNDAS) LTD.**
650 DUNDAS STREET EAST
MISSISSAUGA ON L5A3S6 **PES**

Detail Licence No:		**Operator Box:**	
Licence No:	08888	**Operator Class:**	
Status:		**Operator No:**	
Approval Date:		**Operator Type:**	
Report Source:	Legacy Licenses (Excluding TS)	**Oper Area Code:**	416
Licence Type:	Retail Vendor Class 03	**Oper Phone No:**	2766350
Licence Type Code:	21	**Operator Ext:**	
Licence Class:	03	**Operator Lot:**	
Licence Control:		**Oper Concession:**	
Latitude:		**Operator Region:**	
Longitude:		**Operator District:**	
Lot:		**Operator County:**	
Concession:		**Op Municipality:**	
Region:		**Post Office Box:**	
District:		**MOE District:**	
County:		**SWP Area Name:**	
Trade Name:			
PDF Link:			
PDF Site Location:			

8 **19 of 21** **NW/165.3** **119.8 / 2.06** **RONA Inc.**
650 DUNDAS STREET EAST
MISSISSAUGA ON L5A 3V6 **GEN**

Generator No:	ON5202396	**Status:**	Registered
SIC Code:		**Co Admin:**	
SIC Description:		**Choice of Contact:**	
Approval Years:	As of Jul 2020	**Phone No Admin:**	
PO Box No:		**Contam. Facility:**	
Country:	Canada	**MHSW Facility:**	

Detail(s)

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

Waste Class:	122 C
Waste Class Desc:	Alkaline slutions - containing other metals and non-metals (not cyanide)
Waste Class:	148 A
Waste Class Desc:	Misc. wastes and inorganic chemicals
Waste Class:	331 L
Waste Class Desc:	Waste compressed gases including cylinders
Waste Class:	263 A
Waste Class Desc:	Misc. waste organic chemicals
Waste Class:	212 I
Waste Class Desc:	Aliphatic solvents and residues
Waste Class:	242 T
Waste Class Desc:	Halogenated pesticides and herbicides
Waste Class:	263 T
Waste Class Desc:	Misc. waste organic chemicals
Waste Class:	148 C
Waste Class Desc:	Misc. wastes and inorganic chemicals
Waste Class:	252 L
Waste Class Desc:	Waste crankcase oils and lubricants
Waste Class:	145 I
Waste Class Desc:	Wastes from the use of pigments, coatings and paints
Waste Class:	146 T
Waste Class Desc:	Other specified inorganic sludges, slurries or solids
Waste Class:	221 I
Waste Class Desc:	Light fuels
Waste Class:	262 L
Waste Class Desc:	Detergents and soaps
Waste Class:	242 A
Waste Class Desc:	Halogenated pesticides and herbicides
Waste Class:	263 L
Waste Class Desc:	Misc. waste organic chemicals
Waste Class:	331 I
Waste Class Desc:	Waste compressed gases including cylinders
Waste Class:	263 I
Waste Class Desc:	Misc. waste organic chemicals
Waste Class:	269 T
Waste Class Desc:	Organic non-halogenated pesticide and herbicide wastes
Waste Class:	145 L
Waste Class Desc:	Wastes from the use of pigments, coatings and paints
Waste Class:	148 T
Waste Class Desc:	Misc. wastes and inorganic chemicals
Waste Class:	148 I
Waste Class Desc:	Misc. wastes and inorganic chemicals

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
8	20 of 21	NW/165.3	119.8 / 2.06	RONA Inc. 650 DUNDAS STREET EAST	GEN

MISSISSAUGA ON L5A 3V6

Generator No:	ON5202396	***Status:***	Registered
SIC Code:		***Co Admin:***	
SIC Description:		***Choice of Contact:***	
Approval Years:	As of Nov 2021	***Phone No Admin:***	
PO Box No:		***Contam. Facility:***	
Country:	Canada	***MHSW Facility:***	

Detail(s)

Waste Class:	148 T
Waste Class Desc:	Misc. wastes and inorganic chemicals
Waste Class:	242 T
Waste Class Desc:	Halogenated pesticides and herbicides
Waste Class:	263 A
Waste Class Desc:	Misc. waste organic chemicals
Waste Class:	221 I
Waste Class Desc:	Light fuels
Waste Class:	252 L
Waste Class Desc:	Waste crankcase oils and lubricants
Waste Class:	146 T
Waste Class Desc:	Other specified inorganic sludges, slurries or solids
Waste Class:	263 I
Waste Class Desc:	Misc. waste organic chemicals
Waste Class:	331 I
Waste Class Desc:	Waste compressed gases including cylinders
Waste Class:	263 T
Waste Class Desc:	Misc. waste organic chemicals
Waste Class:	242 A
Waste Class Desc:	Halogenated pesticides and herbicides
Waste Class:	148 A
Waste Class Desc:	Misc. wastes and inorganic chemicals
Waste Class:	122 C
Waste Class Desc:	Alkaline slutions - containing other metals and non-metals (not cyanide)
Waste Class:	263 L
Waste Class Desc:	Misc. waste organic chemicals
Waste Class:	148 I
Waste Class Desc:	Misc. wastes and inorganic chemicals
Waste Class:	148 C
Waste Class Desc:	Misc. wastes and inorganic chemicals
Waste Class:	269 T
Waste Class Desc:	Organic non-halogenated pesticide and herbicide wastes
Waste Class:	145 L
Waste Class Desc:	Wastes from the use of pigments, coatings and paints
Waste Class:	145 I
Waste Class Desc:	Wastes from the use of pigments, coatings and paints

Waste Class: 331 L
Waste Class Desc: Waste compressed gases including cylinders

Waste Class: 212 I
Waste Class Desc: Aliphatic solvents and residues

Waste Class: 262 L
Waste Class Desc: Detergents and soaps

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8 | **21 of 21** | **NW/165.3** | **119.8 / 2.06** | **650 DUNDAS ST E**
MISSISSAUGA ON L5A 3Y6 | **PES**

Detail Licence No:
Licence No: L-232-1132233863
Status: Active
Approval Date: 2021-05-31
Report Source: PEST-Limited Vendor
Licence Type: Limited Vendor
Licence Type Code:
Licence Class:
Licence Control:
Latitude: 43.59388889
Longitude: -79.60083333
Lot:
Concession:
Region:
District:
County:
Trade Name:
PDF Link: http://www.accessenvironment.ene.gov.on.ca/AEWeb/ae/ViewDocument.action?documentRefID=2407593
PDF Site Location:

Operator Box:
Operator Class:
Operator No:
Operator Type:
Oper Area Code:
Oper Phone No:
Operator Ext:
Operator Lot:
Oper Concession:
Operator Region:
Operator District:
Operator County:
Op Municipality:
Post Office Box:
MOE District: Halton-Peel
SWP Area Name: Credit Valley

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9 | **1 of 23** | **WSW/174.1** | **117.9 / 0.13** | **INER CITY PAPERS LTD**
560 HENSHALL CIR
MISSISSAUGA ON L5A 1Y1 | **PRT**

Location ID: 9105
Type: private
Expiry Date:
Capacity (L): 22700.00
Licence #: 0001032141

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9 | **2 of 23** | **WSW/174.1** | **117.9 / 0.13** | **INTER CITY PAPERS LTD**
560 HENSALL CIRCLE
MISSISSAUGA ON L5A 1Y1 | **GEN**

Generator No: ON0377300
SIC Code: 2799
SIC Description: OTHER CONVERTED PAP.
Approval Years: 86,87,88,89,90
PO Box No:
Country:

Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

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

Waste Class: 262
Waste Class Desc: DETERGENTS/SOAPS

---

9 **3 of 23** **WSW/174.1** **117.9 / 0.13** **INTER CITY PAPERS 21-058** **GEN**
560 HENSALL CIRCLE
MISSISSAUGA ON L5A 1Y1

Generator No: ON0377300
SIC Code: 2799
SIC Description: OTHER CONVERTED PAP.
Approval Years: 92,93,95,96
PO Box No:
Country:

Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

Waste Class: 251
Waste Class Desc: OIL SKIMMINGS & SLUDGES

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

Waste Class: 262
Waste Class Desc: DETERGENTS/SOAPS

Waste Class: 263
Waste Class Desc: ORGANIC LABORATORY CHEMICALS

Waste Class: 264
Waste Class Desc: PHOTOPROCESSING WASTES

---

9 **4 of 23** **WSW/174.1** **117.9 / 0.13** **INTER CITY PAPERS LTD 21-058** **GEN**
560 HENSALL CIRCLE
MISSISSAUGA ON L5A 1Y1

Generator No: ON0377300
SIC Code: 2799
SIC Description: OTHER CONVERTED PAP.
Approval Years: 94
PO Box No:
Country:

Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

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

Waste Class: 262
Waste Class Desc: DETERGENTS/SOAPS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
9	5 of 23	WSW/174.1	117.9 / 0.13	INTER CITY PAPERS 560 HENSALL CIRCLE MISSISSAUGA ON L5A 1Y1	GEN

Generator No: ON0377300
SIC Code: 2799
SIC Description: OTHER CONVERTED PAP.
Approval Years: 97,98,99
PO Box No:
Country:

Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

Waste Class: 251
Waste Class Desc: OIL SKIMMINGS & SLUDGES

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

Waste Class: 262
Waste Class Desc: DETERGENTS/SOAPS

Waste Class: 263
Waste Class Desc: ORGANIC LABORATORY CHEMICALS

Waste Class: 264
Waste Class Desc: PHOTOPROCESSING WASTES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
9	6 of 23	WSW/174.1	117.9 / 0.13	INTER (SEE & UE ON1732903) 560 HENSALL CIRCLE MISSISSAUGA ON L5A 1Y1	GEN

Generator No: ON0377300
SIC Code: 2799
SIC Description: OTHER CONVERTED PAP.
Approval Years: 00,01
PO Box No:
Country:

Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

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

Waste Class: 262
Waste Class Desc: DETERGENTS/SOAPS

Waste Class: 263
Waste Class Desc: ORGANIC LABORATORY CHEMICALS

Waste Class: 264
Waste Class Desc: PHOTOPROCESSING WASTES

Waste Class: 251
Waste Class Desc: OIL SKIMMINGS & SLUDGES

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9 | **7 of 23** | **WSW/174.1** | **117.9 / 0.13** | **UNISOURCE CANADA INC.**
560 HENSALL CIRCLE
MISSISSAUGA ON L5A 1Y1 | **GEN**

Generator No: ON1732903
SIC Code: 2799
SIC Description: OTHER CONVERTED PAP.
Approval Years: 00,01,02,03,04,05,06,07,08
PO Box No:
Country:

Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

Waste Class: 251
Waste Class Desc: OIL SKIMMINGS & SLUDGES

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

Waste Class: 262
Waste Class Desc: DETERGENTS/SOAPS

Waste Class: 263
Waste Class Desc: ORGANIC LABORATORY CHEMICALS

Waste Class: 112
Waste Class Desc: ACID WASTE - HEAVY METALS

Waste Class: 122
Waste Class Desc: ALKALINE WASTES - OTHER METALS

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 265
Waste Class Desc: GRAPHIC ART WASTES

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

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

Waste Class: 264
Waste Class Desc: PHOTOPROCESSING WASTES

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9 | **8 of 23** | **WSW/174.1** | **117.9 / 0.13** | **UNISOURCE**
560 HENSALL CIR
MISSISSAUGA ON L5A 1Y1 | **FSTH**

License Issue Date: 9/14/1990
Tank Status: Licensed
Tank Status As Of: August 2007
Operation Type: Private Fuel Outlet
Facility Type: Gasoline Station - Self Serve

--Details--
Status: Active
Year of Installation: 1980
Corrosion Protection:
Capacity: 22700
Tank Fuel Type: Liquid Fuel Single Wall UST - Diesel

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9 | **9 of 23** | **WSW/174.1** | **117.9 / 0.13** | **UNISOURCE**
560 HENSALL CIR
MISSISSAUGA ON L5A 1Y1 | **FSTH**

License Issue Date: 9/14/1990
Tank Status: Licensed
Tank Status As Of: December 2008
Operation Type: Private Fuel Outlet
Facility Type: Gasoline Station - Self Serve

--Details--
Status: Active
Year of Installation: 1980
Corrosion Protection:
Capacity: 22700
Tank Fuel Type: Liquid Fuel Single Wall UST - Diesel

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9 | **10 of 23** | **WSW/174.1** | **117.9 / 0.13** | **UNISOURCE CANADA INC.**
560 HENSALL CIRCLE
MISSISSAUGA ON L5A 1Y1 | **GEN**

Generator No: ON1732903
SIC Code: 325910
SIC Description: Printing Ink Manufacturing
Approval Years: 2009
PO Box No:
Country:

Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 112
Waste Class Desc: ACID WASTE - HEAVY METALS

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 122
Waste Class Desc: ALKALINE WASTES - OTHER METALS

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

Waste Class: 251
Waste Class Desc: OIL SKIMMINGS & SLUDGES

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

Waste Class: 262
Waste Class Desc: DETERGENTS/SOAPS

Waste Class: 263
Waste Class Desc: ORGANIC LABORATORY CHEMICALS

Waste Class: 264
Waste Class Desc: PHOTOPROCESSING WASTES

Waste Class: 265
Waste Class Desc: GRAPHIC ART WASTES

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

9	11 of 23	WSW/174.1	117.9 / 0.13	UNISOURCE CANADA INC. 560 HENSALL CIRCLE MISSISSAUGA ON L5A 1Y1	GEN

Generator No: ON1732903
SIC Code: 325910
SIC Description: Printing Ink Manufacturing
Approval Years: 2010
PO Box No:
Country:

Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 251
Waste Class Desc: OIL SKIMMINGS & SLUDGES

Waste Class: 122
Waste Class Desc: ALKALINE WASTES - OTHER METALS

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

Waste Class: 267
Waste Class Desc: ORGANIC ACIDS

Waste Class: 262
Waste Class Desc: DETERGENTS/SOAPS

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

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

Waste Class: 265
Waste Class Desc: GRAPHIC ART WASTES

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

Waste Class: 264
Waste Class Desc: PHOTOPROCESSING WASTES

Waste Class: 263
Waste Class Desc: ORGANIC LABORATORY CHEMICALS

Waste Class: 112
Waste Class Desc: ACID WASTE - HEAVY METALS

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

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9 | **12 of 23** | **WSW/174.1** | **117.9 / 0.13** | **UNISOURCE CANADA INC.**
560 HENSALL CIRCLE
MISSISSAUGA ON L5A 1Y1 | **GEN**

Generator No: ON1732903
SIC Code: 325910
SIC Description: Printing Ink Manufacturing
Approval Years: 2011
PO Box No:
Country:

Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 263
Waste Class Desc: ORGANIC LABORATORY CHEMICALS

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

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 262
Waste Class Desc: DETERGENTS/SOAPS

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

Waste Class: 251
Waste Class Desc: OIL SKIMMINGS & SLUDGES

Waste Class: 267
Waste Class Desc: ORGANIC ACIDS

Waste Class:	331
Waste Class Desc:	WASTE COMPRESSED GASES
Waste Class:	212
Waste Class Desc:	ALIPHATIC SOLVENTS
Waste Class:	146
Waste Class Desc:	OTHER SPECIFIED INORGANICS
Waste Class:	264
Waste Class Desc:	PHOTOPROCESSING WASTES
Waste Class:	112
Waste Class Desc:	ACID WASTE - HEAVY METALS
Waste Class:	265
Waste Class Desc:	GRAPHIC ART WASTES
Waste Class:	122
Waste Class Desc:	ALKALINE WASTES - OTHER METALS

9 **13 of 23** **WSW/174.1** **117.9 / 0.13** **UNISOURCE CANADA INC.**
560 HENSALL CIRCLE
MISSISSAUGA ON L5A 1Y1 **GEN**

Generator No:	ON1732903	**Status:**	
SIC Code:	325910	**Co Admin:**	
SIC Description:	Printing Ink Manufacturing	**Choice of Contact:**	
Approval Years:	2012	**Phone No Admin:**	
PO Box No:		**Contam. Facility:**	
Country:		**MHSW Facility:**	

Detail(s)

Waste Class:	262
Waste Class Desc:	DETERGENTS/SOAPS
Waste Class:	212
Waste Class Desc:	ALIPHATIC SOLVENTS
Waste Class:	148
Waste Class Desc:	INORGANIC LABORATORY CHEMICALS
Waste Class:	112
Waste Class Desc:	ACID WASTE - HEAVY METALS
Waste Class:	252
Waste Class Desc:	WASTE OILS & LUBRICANTS
Waste Class:	213
Waste Class Desc:	PETROLEUM DISTILLATES
Waste Class:	122
Waste Class Desc:	ALKALINE WASTES - OTHER METALS
Waste Class:	146
Waste Class Desc:	OTHER SPECIFIED INORGANICS
Waste Class:	264
Waste Class Desc:	PHOTOPROCESSING WASTES
Waste Class:	145
Waste Class Desc:	PAINT/PIGMENT/COATING RESIDUES

Waste Class: 265
Waste Class Desc: GRAPHIC ART WASTES

Waste Class: 263
Waste Class Desc: ORGANIC LABORATORY CHEMICALS

Waste Class: 267
Waste Class Desc: ORGANIC ACIDS

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

Waste Class: 251
Waste Class Desc: OIL SKIMMINGS & SLUDGES

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9 | **14 of 23** | **WSW/174.1** | **117.9 / 0.13** | **UNISOURCE CANADA INC.**
560 HENSALL CIRCLE
MISSISSAUGA ON | **GEN**

Generator No: ON1732903
SIC Code: 325910
SIC Description: PRINTING INK MANUFACTURING
Approval Years: 2013
PO Box No:
Country:

Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 264
Waste Class Desc: PHOTOPROCESSING WASTES

Waste Class: 232
Waste Class Desc: POLYMERIC RESINS

Waste Class: 122
Waste Class Desc: ALKALINE WASTES - OTHER METALS

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

Waste Class: 262
Waste Class Desc: DETERGENTS/SOAPS

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

Waste Class: 263
Waste Class Desc: ORGANIC LABORATORY CHEMICALS

Waste Class: 312
Waste Class Desc: PATHOLOGICAL WASTES

Waste Class: 251
Waste Class Desc: OIL SKIMMINGS & SLUDGES

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

Waste Class: 265
Waste Class Desc: GRAPHIC ART WASTES

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 268
Waste Class Desc: AMINES

Waste Class: 112
Waste Class Desc: ACID WASTE - HEAVY METALS

Waste Class: 267
Waste Class Desc: ORGANIC ACIDS

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9 | **15 of 23** | **WSW/174.1** | **117.9 / 0.13** | **560 Hensall Cir**
Mississauga ON L5A1Y1 | **EHS**

Order No: 20160617028
Status: C
Report Type: Standard Report
Report Date: 23-JUN-16
Date Received: 17-JUN-16
Previous Site Name:
Lot/Building Size:
Additional Info Ordered: City Directory; Aerial Photos

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -79.601146
Y: 43.591365

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9 | **16 of 23** | **WSW/174.1** | **117.9 / 0.13** | **UNISOURCE CANADA INC.**
560 HENSALL CIRCLE
MISSISSAUGA ON L5A 1Y1 | **GEN**

Generator No: ON1732903
SIC Code: 325910
SIC Description: PRINTING INK MANUFACTURING
Approval Years: 2015
PO Box No:
Country: Canada

Status:
Co Admin: Crystal G Watts
Choice of Contact: CO_OFFICIAL
Phone No Admin: 9052768524 Ext.
Contam. Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 263
Waste Class Desc: ORGANIC LABORATORY CHEMICALS

Waste Class: 122
Waste Class Desc: ALKALINE WASTES - OTHER METALS

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 264
Waste Class Desc: PHOTOPROCESSING WASTES

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

Waste Class: 232
Waste Class Desc: POLYMERIC RESINS

Waste Class: 146

Waste Class Desc:	OTHER SPECIFIED INORGANICS
Waste Class:	148
Waste Class Desc:	INORGANIC LABORATORY CHEMICALS
Waste Class:	251
Waste Class Desc:	OIL SKIMMINGS & SLUDGES
Waste Class:	252
Waste Class Desc:	WASTE OILS & LUBRICANTS
Waste Class:	265
Waste Class Desc:	GRAPHIC ART WASTES
Waste Class:	112
Waste Class Desc:	ACID WASTE - HEAVY METALS
Waste Class:	268
Waste Class Desc:	AMINES
Waste Class:	212
Waste Class Desc:	ALIPHATIC SOLVENTS
Waste Class:	267
Waste Class Desc:	ORGANIC ACIDS
Waste Class:	213
Waste Class Desc:	PETROLEUM DISTILLATES
Waste Class:	312
Waste Class Desc:	PATHOLOGICAL WASTES
Waste Class:	262
Waste Class Desc:	DETERGENTS/SOAPS

9 | ***17 of 23*** | ***WSW/174.1*** | ***117.9 / 0.13*** | ***UNISOURCE CANADA INC.***
560 HENSALL CIRCLE
MISSISSAUGA ON L5A 1Y1 | ***GEN***

Generator No:	ON1732903	**Status:**	
SIC Code:	325910	**Co Admin:**	Crystal G Watts
SIC Description:	PRINTING INK MANUFACTURING	**Choice of Contact:**	CO_OFFICIAL
Approval Years:	2014	**Phone No Admin:**	9052768524 Ext.
PO Box No:		**Contam. Facility:**	No
Country:	Canada	**MHSW Facility:**	No

Detail(s)

Waste Class:	251
Waste Class Desc:	OIL SKIMMINGS & SLUDGES
Waste Class:	312
Waste Class Desc:	PATHOLOGICAL WASTES
Waste Class:	148
Waste Class Desc:	INORGANIC LABORATORY CHEMICALS
Waste Class:	145
Waste Class Desc:	PAINT/PIGMENT/COATING RESIDUES
Waste Class:	232
Waste Class Desc:	POLYMERIC RESINS
Waste Class:	265

Waste Class Desc:	GRAPHIC ART WASTES
Waste Class:	262
Waste Class Desc:	DETERGENTS/SOAPS
Waste Class:	263
Waste Class Desc:	ORGANIC LABORATORY CHEMICALS
Waste Class:	146
Waste Class Desc:	OTHER SPECIFIED INORGANICS
Waste Class:	267
Waste Class Desc:	ORGANIC ACIDS
Waste Class:	252
Waste Class Desc:	WASTE OILS & LUBRICANTS
Waste Class:	212
Waste Class Desc:	ALIPHATIC SOLVENTS
Waste Class:	264
Waste Class Desc:	PHOTOPROCESSING WASTES
Waste Class:	331
Waste Class Desc:	WASTE COMPRESSED GASES
Waste Class:	268
Waste Class Desc:	AMINES
Waste Class:	112
Waste Class Desc:	ACID WASTE - HEAVY METALS
Waste Class:	213
Waste Class Desc:	PETROLEUM DISTILLATES
Waste Class:	122
Waste Class Desc:	ALKALINE WASTES - OTHER METALS

9 **18 of 23** **WSW/174.1** **117.9 / 0.13** **VERITIV**
560 HENSALL CIRCLE
MISSISSAUGA ON L5A 1Y1 **GEN**

Generator No:	ON1732903	**Status:**	Registered
SIC Code:		**Co Admin:**	
SIC Description:		**Choice of Contact:**	
Approval Years:	As of Dec 2017	**Phone No Admin:**	
PO Box No:		**Contam. Facility:**	
Country:	Canada	**MHSW Facility:**	

Detail(s)

Waste Class:	264 L
Waste Class Desc:	Photoprocessing wastes
Waste Class:	122 C
Waste Class Desc:	Alkaline slutions - containing other metals and non-metals (not cyanide)
Waste Class:	265 L
Waste Class Desc:	Graphic arts wastes
Waste Class:	112 C
Waste Class Desc:	Acid solutions - containing heavy metals
Waste Class:	312 P

Waste Class Desc:	Pathological wastes
Waste Class:	252 L
Waste Class Desc:	Waste crankcase oils and lubricants
Waste Class:	213 I
Waste Class Desc:	Petroleum distillates
Waste Class:	263 I
Waste Class Desc:	Misc. waste organic chemicals
Waste Class:	262 L
Waste Class Desc:	Detergents and soaps
Waste Class:	145 L
Waste Class Desc:	Wastes from the use of pigments, coatings and paints
Waste Class:	267 C
Waste Class Desc:	Organic acids
Waste Class:	221 L
Waste Class Desc:	Light fuels
Waste Class:	148 T
Waste Class Desc:	Misc. wastes and inorganic chemicals
Waste Class:	212 L
Waste Class Desc:	Aliphatic solvents and residues
Waste Class:	264 C
Waste Class Desc:	Photoprocessing wastes
Waste Class:	263 L
Waste Class Desc:	Misc. waste organic chemicals
Waste Class:	331 I
Waste Class Desc:	Waste compressed gases including cylinders
Waste Class:	148 C
Waste Class Desc:	Misc. wastes and inorganic chemicals
Waste Class:	268 C
Waste Class Desc:	Amines
Waste Class:	232 L
Waste Class Desc:	Polymeric resins
Waste Class:	145 I
Waste Class Desc:	Wastes from the use of pigments, coatings and paints

9 **19 of 23** **WSW/174.1** **117.9 / 0.13** **GEN**

VERITIV
560 HENSALL CIRCLE
MISSISSAUGA ON L5A 1Y1

Generator No:	ON1732903	**Status:**	
SIC Code:	325910	**Co Admin:**	Crystal G Watts
SIC Description:	PRINTING INK MANUFACTURING	**Choice of Contact:**	CO_OFFICIAL
Approval Years:	2016	**Phone No Admin:**	9052768524 Ext.
PO Box No:		**Contam. Facility:**	No
Country:	Canada	**MHSW Facility:**	No

Detail(s)

Waste Class:	221

Waste Class Desc:	LIGHT FUELS
Waste Class:	263
Waste Class Desc:	ORGANIC LABORATORY CHEMICALS
Waste Class:	232
Waste Class Desc:	POLYMERIC RESINS
Waste Class:	122
Waste Class Desc:	ALKALINE WASTES - OTHER METALS
Waste Class:	268
Waste Class Desc:	AMINES
Waste Class:	252
Waste Class Desc:	WASTE OILS & LUBRICANTS
Waste Class:	146
Waste Class Desc:	OTHER SPECIFIED INORGANICS
Waste Class:	331
Waste Class Desc:	WASTE COMPRESSED GASES
Waste Class:	262
Waste Class Desc:	DETERGENTS/SOAPS
Waste Class:	267
Waste Class Desc:	ORGANIC ACIDS
Waste Class:	112
Waste Class Desc:	ACID WASTE - HEAVY METALS
Waste Class:	264
Waste Class Desc:	PHOTOPROCESSING WASTES
Waste Class:	148
Waste Class Desc:	INORGANIC LABORATORY CHEMICALS
Waste Class:	265
Waste Class Desc:	GRAPHIC ART WASTES
Waste Class:	213
Waste Class Desc:	PETROLEUM DISTILLATES
Waste Class:	312
Waste Class Desc:	PATHOLOGICAL WASTES
Waste Class:	212
Waste Class Desc:	ALIPHATIC SOLVENTS
Waste Class:	251
Waste Class Desc:	OIL SKIMMINGS & SLUDGES
Waste Class:	145
Waste Class Desc:	PAINT/PIGMENT/COATING RESIDUES

9	***20 of 23***	***WSW/174.1***	***117.9 / 0.13***	***C.J. Graphics Inc.*** ***560 Hensall Circle*** ***MISSISSAUGA ON L5A 1Y1***	***GEN***

Generator No:	ON8440784	***Status:***	Registered
SIC Code:		***Co Admin:***	
SIC Description:		***Choice of Contact:***	
Approval Years:	As of Dec 2018	***Phone No Admin:***	
PO Box No:		***Contam. Facility:***	

Country: Canada ***MHSW Facility:***

Detail(s)

Waste Class: 145 I
Waste Class Desc: Wastes from the use of pigments, coatings and paints

Waste Class: 145 L
Waste Class Desc: Wastes from the use of pigments, coatings and paints

Waste Class: 213 I
Waste Class Desc: Petroleum distillates

Waste Class: 251 L
Waste Class Desc: Waste oils/sludges (petroleum based)

Waste Class: 252 L
Waste Class Desc: Waste crankcase oils and lubricants

Waste Class: 264 L
Waste Class Desc: Photoprocessing wastes

Waste Class: 265 L
Waste Class Desc: Graphic arts wastes

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9 ***21 of 23*** ***WSW/174.1*** ***117.9 / 0.13*** ***C J GRAPHICS INC.*** ***EASR***
560 HENSALL CIR
MISSISSAUGA ON L5A 1Y1

Approval No: R-005-6110504533
Status: REGISTERED
Date: 2018-06-19
Record Type: EASR
Link Source: MOFA
Project Type: Printing Facility
Full Address:
Approval Type: EASR-Printing Facility
SWP Area Name: Credit Valley
PDF URL:
PDF Site Location:

MOE District: Halton-Peel
Municipality: MISSISSAUGA
Latitude: 43.59138889
Longitude: -79.60083333
Geometry X:
Geometry Y:

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9 ***22 of 23*** ***WSW/174.1*** ***117.9 / 0.13*** ***C.J. Graphics Inc.*** ***GEN***
560 Hensall Circle
MISSISSAUGA ON L5A 1Y1

Generator No: ON8440784
SIC Code:
SIC Description:
Approval Years: As of Jul 2020
PO Box No:
Country: Canada

Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 145 L
Waste Class Desc: Wastes from the use of pigments, coatings and paints

Waste Class: 264 L
Waste Class Desc: Photoprocessing wastes

Waste Class: 145 I
Waste Class Desc: Wastes from the use of pigments, coatings and paints

Waste Class: 252 L
Waste Class Desc: Waste crankcase oils and lubricants

Waste Class: 251 L
Waste Class Desc: Waste oils/sludges (petroleum based)

Waste Class: 265 L
Waste Class Desc: Graphic arts wastes

Waste Class: 213 I
Waste Class Desc: Petroleum distillates

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9 | **23 of 23** | **WSW/174.1** | **117.9 / 0.13** | **560 Hensall Circle**
Mississauga ON L5A 1Y1 | **EHS**

Order No: 21101800052
Status: C
Report Type: Standard Report
Report Date: 21-OCT-21
Date Received: 18-OCT-21
Previous Site Name:
Lot/Building Size:
Additional Info Ordered: Fire Insur. Maps and/or Site Plans; City Directory

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -79.6009003
Y: 43.5912055

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10 | **1 of 2** | **WSW/174.2** | **117.8 / 0.03** | **UNISOURCE**
560 HENSALL CIR MISSISSAUGA L5A 1Y1 ON CA
ON | **FST**

Instance No: 10856514
Status:
Cont Name:
Instance Type: FS Liquid Fuel Tank
Item:
Item Description: FS Liquid Fuel Tank
Tank Type: Single Wall UST
Install Date: 9/10/1990
Install Year: 1980
Years in Service:
Model: NULL
Description:
Capacity: 22700
Tank Material: Steel
Corrosion Protect: Impressed Current
Overfill Protect:

Manufacturer:
Serial No:
Ulc Standard:
Quantity:
Unit of Measure:
Fuel Type: Diesel
Fuel Type2: NULL
Fuel Type3: NULL
Piping Steel:
Piping Galvanized:
Tanks Single Wall St:
Piping Underground:
No Underground:
Panam Related:
Panam Venue:

Facility Type: FS Liquid Fuel Tank
Parent Facility Type: Fuels Safety Private Fuel Outlet - Self Serve
Facility Location:
Device Installed Location: 560 HENSALL CIR MISSISSAUGA L5A 1Y1 ON CA

Liquid Fuel Tank Details

Overfill Protection:
Owner Account Name: UNISOURCE
Item: FS LIQUID FUEL TANK

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10 | **2 of 2** | **WSW/174.2** | **117.8 / 0.03** | **C.J. Graphics Inc.**
560 Hensall Circle
MISSISSAUGA ON L5A 1Y1 | **GEN**

Generator No: ON8440784
Status: Registered

SIC Code:		**Co Admin:**	
SIC Description:		**Choice of Contact:**	
Approval Years:	As of Nov 2021	**Phone No Admin:**	
PO Box No:		**Contam. Facility:**	
Country:	Canada	**MHSW Facility:**	

Detail(s)

Waste Class:	264 L
Waste Class Desc:	Photoprocessing wastes
Waste Class:	252 L
Waste Class Desc:	Waste crankcase oils and lubricants
Waste Class:	213 I
Waste Class Desc:	Petroleum distillates
Waste Class:	145 L
Waste Class Desc:	Wastes from the use of pigments, coatings and paints
Waste Class:	251 L
Waste Class Desc:	Waste oils/sludges (petroleum based)
Waste Class:	145 I
Waste Class Desc:	Wastes from the use of pigments, coatings and paints
Waste Class:	265 L
Waste Class Desc:	Graphic arts wastes

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11 | ***1 of 1*** | ***ENE/177.5*** | ***117.1 / -0.73*** | ***2526 Cawthra Rd Mississauga ON L5A2W7*** | ***EHS***

Order No:	20140925001	**Nearest Intersection:**	
Status:	C	**Municipality:**	Peel Region - Mississauga
Report Type:	Standard Report	**Client Prov/State:**	ON
Report Date:	01-OCT-14	**Search Radius (km):**	.25
Date Received:	25-SEP-14	**X:**	-79.597052
Previous Site Name:		**Y:**	43.592622
Lot/Building Size:	0.45 Hectares		
Additional Info Ordered:	Title Searches		

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12 | ***1 of 1*** | ***WNW/180.6*** | ***119.8 / 2.06*** | ***ON*** | ***WWIS***

Well ID:	7240692	**Data Entry Status:**	Yes
Construction Date:		**Data Src:**	
Primary Water Use:		**Date Received:**	4/27/2015
Sec. Water Use:		**Selected Flag:**	TRUE
Final Well Status:		**Abandonment Rec:**	
Water Type:		**Contractor:**	7464
Casing Material:		**Form Version:**	8
Audit No:	C24761	**Owner:**	
Tag:	A165977	**Street Name:**	
Construction Method:		**County:**	PEEL
Elevation (m):		**Municipality:**	MISSISSAUGA CITY
Elevation Reliability:		**Site Info:**	
Depth to Bedrock:		**Lot:**	
Well Depth:		**Concession:**	
Overburden/Bedrock:		**Concession Name:**	
Pump Rate:		**Easting NAD83:**	
Static Water Level:		**Northing NAD83:**	
Flowing (Y/N):		**Zone:**	

Flow Rate: ***UTM Reliability:***
Clear/Cloudy:

PDF URL (Map):

Additional Detail(s) (Map)

Well Completed Date: 2014/11/24
Year Completed: 2014
Depth (m):
Latitude: 43.5929766551289
Longitude: -79.6010134142931
Path:

Bore Hole Information

Bore Hole ID: 1005330616 ***Elevation:***
DP2BR: ***Elevrc:***
Spatial Status: ***Zone:*** 17
Code OB: ***East83:*** 612927.00
Code OB Desc: ***North83:*** 4827618.00
Open Hole: ***Org CS:*** UTM83
Cluster Kind: ***UTMRC:*** 4
Date Completed: 24-Nov-2014 00:00:00 ***UTMRC Desc:*** margin of error : 30 m - 100 m
Remarks: ***Location Method:*** wwr
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

13	*1 of 46*	*NE/204.0*	*119.8 / 2.06*	***FRANCESCHINI BROS AGGREGATES LIMITED*** ***2531 CAWTHRA RD*** ***MISSISSAUGA ON L5A 2W7***	*PRT*

Location ID: 8998
Type: private
Expiry Date:
Capacity (L): 10000.00
Licence #: 0001002652

13	*2 of 46*	*NE/204.0*	*119.8 / 2.06*	***FRANCESCHINI BROS AGGREGATES LIMITED*** ***2531 CAWTHRA RD*** ***MISSISSAUGA ON L5A 2W7***	*PRT*

Location ID: 8998
Type: retail
Expiry Date:
Capacity (L): 9092
Licence #: 0001039845

13	*3 of 46*	*NE/204.0*	*119.8 / 2.06*	***FRANCESCHINI BROS AGGREGATES*** ***2531 CAWTHRA RD*** ***MISSISSAUGA ON L5A 2W7***	*SCT*

Established: 1946
Plant Size (ft²): 0
Employment: 28

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

--Details--
Description: MINERALS AND EARTHS, GROUND OR OTHERWISE TREATED
SIC/NAICS Code: 3295

Description: BRICK, STONE, AND RELATED CONSTRUCTION MATERIALS
SIC/NAICS Code: 5032

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13 | ***4 of 46*** | ***NE/204.0*** | ***119.8 / 2.06*** | ***Franceschini Bros. Aggregates Ltd.***
2531 Cawthra Rd
Mississauga ON L5A 2W7 | ***SCT***

Established: 1946
Plant Size (ft²):
Employment: 33

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

Description: Agricultural Chemical and Other Farm Supplies Wholesaler-Distributors
SIC/NAICS Code: 418390

Description: Other Concrete Product Manufacturing
SIC/NAICS Code: 327390

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13 | ***5 of 46*** | ***NE/204.0*** | ***119.8 / 2.06*** | ***Franceschini Bros. Aggregates Ltd.***
2531 Cawthra Road, Mississauga, Ontario, L5A 2W7
ON | ***PTTW***

EBR Registry No: IA8E0291
Ministry Ref No: 98P3006
Notice Type: Instrument\sDecision
Notice Stage:
Notice Date: August\s09,\s2001
Proposal Date: March\s03,\s1998
Year: 1998
Instrument Type: (OWRA\ss.\s34)\s-\sPermit\sto\sTake\sWater
Off Instrument Name:
Posted By:
Company Name: Franceschini\sBros.\sAggregates\sLtd.
Site Address:
Location Other:
Proponent Name:
Proponent Address: Lot\s15,\sconc.5\sW.H.S.,\s593\sCharleston\sSideroad,\s2535\sCawthra\sRoad,\sMississauga\sOntario, \sL5A\s2W7
Comment Period:
URL:
Decision Posted:
Exception Posted:
Section:
Act 1:
Act 2:
Site Location Map:

Site Location Details:

2531 Cawthra Road, Mississauga, Ontario, L5A 2W7

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13 | ***6 of 46*** | ***NE/204.0*** | ***119.8 / 2.06*** | ***FRANCESCHINI BROS. AGGREGATES LTD.***
2531 CAWTHRA ROAD
MISSISSAUGA ON L5A 2W7 | ***GEN***

Generator No: ON0570600
Status:

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

SIC Code: 0821
SIC Description: SAND & GRAVEL PITS
Approval Years: 86,87,88
PO Box No:
Country:
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

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

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13 | ***7 of 46*** | ***NE/204.0*** | ***119.8 / 2.06*** | ***FRANCESCHINI BROS. AGGREGATES LTD.***
2531 CAWTHRA ROAD
MISSISSAUGA ON L5A 2W7 | ***GEN***

Generator No: ON0570600
SIC Code: 0821
SIC Description: SAND & GRAVEL PITS
Approval Years: 89,90
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 221
Waste Class Desc: LIGHT FUELS

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

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13 | ***8 of 46*** | ***NE/204.0*** | ***119.8 / 2.06*** | ***FRANCESCHINI BROS. AGGREGATES LTD.15-157***
2531 CAWTHRA ROAD
MISSISSAUGA ON L5A 2W7 | ***GEN***

Generator No: ON0570600
SIC Code: 0821
SIC Description: SAND & GRAVEL PITS
Approval Years: 92,93,94,95,96
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 221
Waste Class Desc: LIGHT FUELS

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

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13 | ***9 of 46*** | ***NE/204.0*** | ***119.8 / 2.06*** | ***FRANCESCHINI BROS AGGREGATES LTD***
2531 CAWTHRA ROAD
MISSISSAUGA ON L5A 2W7 | ***GEN***

Generator No: ON0570600
SIC Code: 0821
SIC Description: SAND & GRAVEL PITS
Approval Years: 97
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

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

Detail(s)

Waste Class: 221
Waste Class Desc: LIGHT FUELS

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

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13 | ***10 of 46*** | ***NE/204.0*** | ***119.8 / 2.06*** | ***FRANCESCHINI BROS AGGREGATES LTD.***
2531 CAWTHRA ROAD
MISSISSAUGA ON L5A 2W7 | ***GEN***

Generator No: ON0570600
SIC Code: 0821
SIC Description: SAND & GRAVEL PITS
Approval Years: 98,99,00,01
PO Box No:
Country:

Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

Waste Class: 221
Waste Class Desc: LIGHT FUELS

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

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13 | ***11 of 46*** | ***NE/204.0*** | ***119.8 / 2.06*** | ***Lafarge Canada Inc.***
2531 Cawthra Road
Mississauga ON L5A 2W7 | ***GEN***

Generator No: ON0570600
SIC Code:
SIC Description:
Approval Years: 02,03,04,05,06,07,08
PO Box No:
Country:

Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

Waste Class: 221
Waste Class Desc: LIGHT FUELS

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

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13 | ***12 of 46*** | ***NE/204.0*** | ***119.8 / 2.06*** | ***Franceschini Bros. Aggregates***
2531 Cawthra Rd
Mississauga ON L5A 2W7 | ***SCT***

Established: 01-JUN-46
Plant Size (ft²):
Employment:

--Details--
Description: Other Concrete Product Manufacturing
SIC/NAICS Code: 327390

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

Description: Agricultural Chemical and Other Farm Supplies Wholesaler-Distributors
SIC/NAICS Code: 418390

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

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13 | ***13 of 46*** | ***NE/204.0*** | ***119.8 / 2.06*** | ***FRANCESCHINI BROS AGGREGATES LIMITED***
2531 CAWTHRA RD
MISSISSAUGA ON L5A 2W7 | ***FSTH***

License Issue Date: 11/8/1990
Tank Status: Licensed
Tank Status As Of: August 2007
Operation Type: Private Fuel Outlet
Facility Type: Gasoline Station - Self Serve

--Details--
Status: Active
Year of Installation: 1989
Corrosion Protection:
Capacity: 9092
Tank Fuel Type: Liquid Fuel Single Wall UST - Diesel

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13 | ***14 of 46*** | ***NE/204.0*** | ***119.8 / 2.06*** | ***FRANCESCHINI BROS. AGGREGATES***
2531 CAWTHRA ROAD NOT AVAILABLE
MISSISSAUGA ON L5A2W7 | ***NPRI***

NPRI ID: 11406
Other ID: N
No Other ID:
Track ID: 42737
Report ID: 103580
Report Type: NPRI
Rpt Type ID: 1
Report Year: 2006
Not-Current Rpt?: No

Yr of Last Filed Rpt: 2009
Fac ID: 158343
Fac Name: PIT NO. 2 (SMITH)
Fac Address1: 2531 CAWTHRA ROAD
Fac Address2: NOT AVAILABLE
Fac Postal Zip: L5A2W7
Facility Lat: 43.8126
Facility Long: -80.0431
DLS (Last Filed Rpt):
Facility DLS:
Datum: 1983
Facility Cmnts: Fals

Org ID: 48891
Submit Date: 4/26/2007
Last Modified: 5/29/2015 3:28:24 PM
Contact ID: 221739
Cont Type: MED
Contact Title:
Cont First Name: TOM
Cont Last Name: BAUMGARTEN
Contact Position: DIRECTOR, ENVIRONMENT AND PUBLIC AFFAIRS
Contact Fax:
Contact Ph.: 9057387070
Cont Area Code: 905
Contact Tel.: 57387070
Contact Ext.:
Cont Fax Area Cde:
Contact Fax:
Contact Email: TOM.BAUMGARTEN@LAFARGE-NA.COM
Latitude: 43.8126
Longitude: -80.0431
UTM Zone:
UTM Northing:

URL:		**UTM Easting:**	
No of Empl.:	2	**Waste Streams:**	True¿
Parent Co.:	N	**No Streams:**	
No Parent Co.:		**Waste Off Sites:**	False
Pollut Prev Cmnts:	False	**No Off Sites:**	
Stacks:	True	**Shutdown:**	
No of Stacks:		**No of Shutdown:**	

Canadian SIC Code (2 digit):	
Canadian SIC Code:	
SIC Code Description:	
American SIC Code:	
NAICS Code (2 digit):	21
NAICS 2 Description:	Mining and Oil and Gas Extraction
NAICS Code (4 digit):	2123
NAICS 4 Description:	Non-metallic mineral mining and quarrying
NAICS Code (6 digit):	212323
NAICS 6 Description:	Sand and gravel mining and quarrying

Substance Release Report

Category Type ID:	13
Category Type Desc:	All Media
Category Type Desc (fr):	Rejets à tous les médias
Grouping:	Total All Media<1t
Trans Code:	
Chem:	PM10 - Particulate Matter <= 10 Microns
Chem (fr):	PM10 - Matière particulaire <= 10 microns
Quantity:	.453
Unit:	tonnes
Basis of Estimate Cd:	
Basis of Estimate Desc:	

Category Type ID:	13
Category Type Desc:	All Media
Category Type Desc (fr):	Rejets à tous les médias
Grouping:	Total All Media<1t
Trans Code:	
Chem:	PM2.5 - Particulate Matter <= 2.5 Microns
Chem (fr):	PM2,5 - Matière particulaire <= 2,5 microns
Quantity:	.424
Unit:	tonnes
Basis of Estimate Cd:	
Basis of Estimate Desc:	

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13 | ***15 of 46*** | ***NE/204.0*** | ***119.8 / 2.06*** | ***FRANCESCHINI BROS. AGGREGATES***
2531 CAWTHRA ROAD NOT AVAILABLE
MISSISSAUGA ON L5A2W7 | ***NPRI***

NPRI ID:	11406	**Org ID:**	48891
Other ID:	*	**Submit Date:**	5/31/2008
No Other ID:		**Last Modified:**	5/29/2015 3:28:24 PM
Track ID:	58616	**Contact ID:**	
Report ID:	82412	**Cont Type:**	
Report Type:	DNMC	**Contact Title:**	
Rpt Type ID:	2	**Cont First Name:**	
Report Year:	2007	**Cont Last Name:**	
Not-Current Rpt?:	No	**Contact Position:**	
Yr of Last Filed Rpt:	2009	**Contact Fax:**	
Fac ID:	158343	**Contact Ph.:**	
Fac Name:	PIT NO. 2 (SMITH)	**Cont Area Code:**	
Fac Address1:	2531 CAWTHRA ROAD	**Contact Tel.:**	
Fac Address2:	NOT AVAILABLE	**Contact Ext.:**	
Fac Postal Zip:	L5A2W7	**Cont Fax Area Cde:**	
Facility Lat:	43.8126	**Contact Fax:**	

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

Facility Long:	-80.0431	**Contact Email:**	
DLS (Last Filed Rpt):		**Latitude:**	43.8126
Facility DLS:		**Longitude:**	-80.0431
Datum:	1983	**UTM Zone:**	
Facility Cmnts:	False	**UTM Northing:**	
URL:		**UTM Easting:**	
No of Empl.:	0	**Waste Streams:**	True¿
Parent Co.:	*	**No Streams:**	
No Parent Co.:		**Waste Off Sites:**	True¿
Pollut Prev Cmnts:	False	**No Off Sites:**	
Stacks:	True	**Shutdown:**	
No of Stacks:		**No of Shutdown:**	
Canadian SIC Code (2 digit):			
Canadian SIC Code:			
SIC Code Description:			
American SIC Code:			
NAICS Code (2 digit):	21		
NAICS 2 Description:	Mining, quarrying, and oil and gas extraction		
NAICS Code (4 digit):	2123		
NAICS 4 Description:	Non-metallic mineral mining and quarrying		
NAICS Code (6 digit):	212323		
NAICS 6 Description:	Sand and gravel mining and quarrying		

13	***16 of 46***	***NE/204.0***	***119.8 / 2.06***	***FRANCESCHINI BROS AGGREGATES LIMITED*** ***2531 CAWTHRA RD*** ***MISSISSAUGA ON L5A 2W7***	***FSTH***

License Issue Date:	11/8/1990
Tank Status:	Licensed
Tank Status As Of:	December 2008
Operation Type:	Private Fuel Outlet
Facility Type:	Gasoline Station - Self Serve

--Details--

Status:	Active
Year of Installation:	1989
Corrosion Protection:	
Capacity:	9092
Tank Fuel Type:	Liquid Fuel Single Wall UST - Diesel

13	***17 of 46***	***NE/204.0***	***119.8 / 2.06***	***FRANCESCHINI BROS. AGGREGATES*** ***2531 CAWTHRA ROAD NOT AVAILABLE*** ***MISSISSAUGA ON L5A2W7***	***NPRI***

NPRI ID:	11406	**Org ID:**	48891
Other ID:	*	**Submit Date:**	5/26/2009
No Other ID:		**Last Modified:**	5/29/2015 3:28:24 PM
Track ID:	63999	**Contact ID:**	
Report ID:	124662	**Cont Type:**	
Report Type:	DNMC	**Contact Title:**	
Rpt Type ID:	2	**Cont First Name:**	
Report Year:	2008	**Cont Last Name:**	
Not-Current Rpt?:	No	**Contact Position:**	
Yr of Last Filed Rpt:	2009	**Contact Fax:**	
Fac ID:	158343	**Contact Ph.:**	
Fac Name:	PIT NO. 2 (SMITH)	**Cont Area Code:**	
Fac Address1:	2531 CAWTHRA ROAD	**Contact Tel.:**	
Fac Address2:	NOT AVAILABLE	**Contact Ext.:**	
Fac Postal Zip:	L5A2W7	**Cont Fax Area Cde:**	
Facility Lat:	43.8126	**Contact Fax:**	
Facility Long:	-80.0431	**Contact Email:**	
DLS (Last Filed Rpt):		**Latitude:**	43.8126

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

Facility DLS:		**Longitude:**	-80.0431
Datum:	1983	**UTM Zone:**	
Facility Cmnts:	No	**UTM Northing:**	
URL:		**UTM Easting:**	
No of Empl.:	0	**Waste Streams:**	No
Parent Co.:	*	**No Streams:**	
No Parent Co.:		**Waste Off Sites:**	No
Pollut Prev Cmnts:	No	**No Off Sites:**	
Stacks:	No	**Shutdown:**	No
No of Stacks:		**No of Shutdown:**	
Canadian SIC Code (2 digit):			
Canadian SIC Code:			
SIC Code Description:			
American SIC Code:			
NAICS Code (2 digit):	21		
NAICS 2 Description:	Mining, quarrying, and oil and gas extraction		
NAICS Code (4 digit):	2123		
NAICS 4 Description:	Non-metallic mineral mining and quarrying		
NAICS Code (6 digit):	212323		
NAICS 6 Description:	Sand and gravel mining and quarrying		

13	18 of 46	NE/204.0	119.8 / 2.06	**FRANCESCHINI BROS. AGGREGATES** **2531 CAWTHRA ROAD NOT AVAILABLE** **MISSISSAUGA ON L5A2W7**	NPRI

NPRI ID:	11406	**Org ID:**	48891
Other ID:	*	**Submit Date:**	5/25/2010
No Other ID:		**Last Modified:**	5/29/2015 3:28:24 PM
Track ID:	87171	**Contact ID:**	
Report ID:	141142	**Cont Type:**	
Report Type:	DNMC	**Contact Title:**	
Rpt Type ID:	2	**Cont First Name:**	
Report Year:	2009	**Cont Last Name:**	
Not-Current Rpt?:	No	**Contact Position:**	
Yr of Last Filed Rpt:	2009	**Contact Fax:**	
Fac ID:	158343	**Contact Ph.:**	
Fac Name:	PIT NO. 2 (SMITH)	**Cont Area Code:**	
Fac Address1:	2531 CAWTHRA ROAD	**Contact Tel.:**	
Fac Address2:	NOT AVAILABLE	**Contact Ext.:**	
Fac Postal Zip:	L5A2W7	**Cont Fax Area Cde:**	
Facility Lat:	43.8126	**Contact Fax:**	
Facility Long:	-80.0431	**Contact Email:**	
DLS (Last Filed Rpt):		**Latitude:**	43.8126
Facility DLS:		**Longitude:**	-80.0431
Datum:	1983	**UTM Zone:**	
Facility Cmnts:	No	**UTM Northing:**	
URL:		**UTM Easting:**	
No of Empl.:	0	**Waste Streams:**	No
Parent Co.:	*	**No Streams:**	
No Parent Co.:		**Waste Off Sites:**	No
Pollut Prev Cmnts:	No	**No Off Sites:**	
Stacks:	No	**Shutdown:**	No
No of Stacks:		**No of Shutdown:**	
Canadian SIC Code (2 digit):			
Canadian SIC Code:			
SIC Code Description:			
American SIC Code:			
NAICS Code (2 digit):	21		
NAICS 2 Description:	Mining, quarrying, and oil and gas extraction		
NAICS Code (4 digit):	2123		
NAICS 4 Description:	Non-metallic mineral mining and quarrying		
NAICS Code (6 digit):	212323		
NAICS 6 Description:	Sand and gravel mining and quarrying		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
13	19 of 46	NE/204.0	119.8 / 2.06	FRANCESCHINI BROS. AGGREGATES 2531 CAWTHRA Road MISSISSAUGA ON L5A 2W7	NPRI

NPRI ID:	8800000114	**Org ID:**	
Other ID:	*	**Submit Date:**	
No Other ID:		**Last Modified:**	
Track ID:		**Contact ID:**	
Report ID:		**Cont Type:**	
Report Type:		**Contact Title:**	
Rpt Type ID:		**Cont First Name:**	
Report Year:	2009	**Cont Last Name:**	
Not-Current Rpt?:		**Contact Position:**	
Yr of Last Filed Rpt:		**Contact Fax:**	
Fac ID:		**Contact Ph.:**	
Fac Name:	PIT NO. 1 (DODDS) AGG SITE	**Cont Area Code:**	
Fac Address1:		**Contact Tel.:**	
Fac Address2:		**Contact Ext.:**	
Fac Postal Zip:		**Cont Fax Area Cde:**	
Facility Lat:		**Contact Fax:**	
Facility Long:		**Contact Email:**	
DLS (Last Filed Rpt):		**Latitude:**	
Facility DLS:		**Longitude:**	
Datum:		**UTM Zone:**	
Facility Cmnts:	No	**UTM Northing:**	
URL:		**UTM Easting:**	
No of Empl.:	0	**Waste Streams:**	No
Parent Co.:	*	**No Streams:**	
No Parent Co.:		**Waste Off Sites:**	No
Pollut Prev Cmnts:	No	**No Off Sites:**	
Stacks:	No	**Shutdown:**	No
No of Stacks:		**No of Shutdown:**	
Canadian SIC Code (2 digit):			
Canadian SIC Code:			
SIC Code Description:			
American SIC Code:			
NAICS Code (2 digit):			
NAICS 2 Description:			
NAICS Code (4 digit):			
NAICS 4 Description:			
NAICS Code (6 digit):			
NAICS 6 Description:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
13	20 of 46	NE/204.0	119.8 / 2.06	Lafarge Canada Inc. 2531 Cawthra Rd Mississauga ON L5A 2W7	SPL

Ref No:	8738-8EK9N2	**Discharger Report:**	
Site No:		**Material Group:**	
Incident Dt:	3/1/2011	**Health/Env Conseq:**	
Year:		**Client Type:**	
Incident Cause:	Discharge Or Bypass To A Watercourse	**Sector Type:**	Other
Incident Event:		**Agency Involved:**	
Contaminant Code:	13	**Nearest Watercourse:**	
Contaminant Name:	DIESEL FUEL	**Site Address:**	2531 Cawthra Rd
Contaminant Limit 1:		**Site District Office:**	
Contam Limit Freq 1:		**Site Postal Code:**	
Contaminant UN No 1:		**Site Region:**	
Environment Impact:	Possible	**Site Municipality:**	Mississauga
Nature of Impact:	Soil Contamination; Surface Water Pollution	**Site Lot:**	
Receiving Medium:		**Site Conc:**	
Receiving Env:		**Northing:**	NA
MOE Response:		**Easting:**	NA
Dt MOE Arvl on Scn:		**Site Geo Ref Accu:**	
MOE Reported Dt:	3/2/2011	**Site Map Datum:**	

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

Dt Document Closed:		**SAC Action Class:**	Watercourse Spills
Incident Reason:	Spill	**Source Type:**	
Site Name:	2531 Cawthra Road		
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	LaFarge Cnd: 150L Diesel to grave/cb; cont.		
Contaminant Qty:	150 L		

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13 **21 of 46** **NE/204.0** **119.8 / 2.06** **FRANCESCHINI BROS AGGREGATES LIMITED** **DTNK**
2531 CAWTHRA RD
MISSISSAUGA ON

Delisted Expired Fuel Safety Facilities

Instance No:	9215014	**Expired Date:**	
Status:	EXPIRED	**Max Hazard Rank:**	
Instance ID:	381883	**Facility Location:**	
Instance Type:	FS Facility	**Facility Type:**	
Instance Creation Dt:		**Fuel Type 2:**	
Instance Install Dt:		**Fuel Type 3:**	
Item Description:		**Panam Related:**	
Manufacturer:		**Panam Venue Nm:**	
Model:		**External Identifier:**	
Serial No:		**Item:**	
ULC Standard:		**Piping Steel:**	
Quantity:		**Piping Galvanized:**	
Unit of Measure:		**Tank Single Wall St:**	
Overfill Prot Type:		**Piping Underground:**	
Creation Date:		**Tank Underground:**	
Next Periodic Str DT:		**Source:**	
TSSA Base Sched Cycle 2:			
TSSAMax Hazard Rank 1:			
TSSA Risk Based Periodic Yn:			
TSSA Volume of Directives:			
TSSA Periodic Exempt:			
TSSA Statutory Interval:			
TSSA Recd Insp Interva:			
TSSA Recd Tolerance:			
TSSA Program Area:			
TSSA Program Area 2:			
Description:	Fuels Safety Private Fuel Outlet - Self Serve		
Original Source:	EXP		
Record Date:	Up to Mar 2012		

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13 **22 of 46** **NE/204.0** **119.8 / 2.06** **FRANCESCHINI BROS AGGREGATES LIMITED** **DTNK**
2531 CAWTHRA RD
MISSISSAUGA ON

Delisted Expired Fuel Safety Facilities

Instance No:	10853101	**Expired Date:**	
Status:	EXPIRED	**Max Hazard Rank:**	
Instance ID:	45275	**Facility Location:**	
Instance Type:	FS Piping	**Facility Type:**	
Instance Creation Dt:		**Fuel Type 2:**	
Instance Install Dt:		**Fuel Type 3:**	
Item Description:		**Panam Related:**	
Manufacturer:		**Panam Venue Nm:**	

Model:		**External Identifier:**	
Serial No:		**Item:**	
ULC Standard:		**Piping Steel:**	
Quantity:		**Piping Galvanized:**	
Unit of Measure:		**Tank Single Wall St:**	
Overfill Prot Type:		**Piping Underground:**	
Creation Date:		**Tank Underground:**	
Next Periodic Str DT:		**Source:**	
TSSA Base Sched Cycle 2:			
TSSAMax Hazard Rank 1:			
TSSA Risk Based Periodic Yn:			
TSSA Volume of Directives:			
TSSA Periodic Exempt:			
TSSA Statutory Interval:			
TSSA Recd Insp Interva:			
TSSA Recd Tolerance:			
TSSA Program Area:			
TSSA Program Area 2:			
Description:	FS Piping		
Original Source:	EXP		
Record Date:	Up to Mar 2012		

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13 | **23 of 46** | **NE/204.0** | **119.8 / 2.06** | **Lafarge Canada Inc.**
2531 Cawthra Road
Mississauga ON L5A 2W7 | **GEN**

Generator No:	ON0570600	**Status:**	
SIC Code:	339990	**Co Admin:**	
SIC Description:	All Other Miscellaneous Manufacturing	**Choice of Contact:**	
Approval Years:	2009	**Phone No Admin:**	
PO Box No:		**Contam. Facility:**	
Country:		**MHSW Facility:**	

Detail(s)

Waste Class:	212
Waste Class Desc:	ALIPHATIC SOLVENTS
Waste Class:	213
Waste Class Desc:	PETROLEUM DISTILLATES
Waste Class:	221
Waste Class Desc:	LIGHT FUELS
Waste Class:	252
Waste Class Desc:	WASTE OILS & LUBRICANTS

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13 | **24 of 46** | **NE/204.0** | **119.8 / 2.06** | **FRANCESCHINI BROS. AGGREGATES**
2531 CAWTHRA ROAD NOT AVAILABLE
MISSISSAUGA ON L7K3L3 | **NPRI**

NPRI ID:	25236	**Org ID:**	48893
Other ID:		**Submit Date:**	6/29/2012
No Other ID:		**Last Modified:**	5/29/2015 3:28:24 PM
Track ID:	103060	**Contact ID:**	
Report ID:	8315	**Cont Type:**	
Report Type:	NPRI	**Contact Title:**	
Rpt Type ID:	1	**Cont First Name:**	
Report Year:	2011	**Cont Last Name:**	
Not-Current Rpt?:	No	**Contact Position:**	
Yr of Last Filed Rpt:	2012	**Contact Fax:**	
Fac ID:	207265	**Contact Ph.:**	
Fac Name:	PIT NO. 1 (DODDS) AGG SITE	**Cont Area Code:**	

Fac Address1:	2531 CAWTHRA ROAD	***Contact Tel.:***	
Fac Address2:	NOT AVAILABLE	***Contact Ext.:***	
Fac Postal Zip:	L7K3L3	***Cont Fax Area Cde:***	
Facility Lat:	0	***Contact Fax:***	
Facility Long:	0	***Contact Email:***	
DLS (Last Filed Rpt):		***Latitude:***	43.593718
Facility DLS:		***Longitude:***	-79.596612
Datum:	1983	***UTM Zone:***	
Facility Cmnts:		***UTM Northing:***	
URL:		***UTM Easting:***	
No of Empl.:	21	***Waste Streams:***	
Parent Co.:		***No Streams:***	
No Parent Co.:		***Waste Off Sites:***	
Pollut Prev Cmnts:		***No Off Sites:***	
Stacks:		***Shutdown:***	
No of Stacks:		***No of Shutdown:***	
Canadian SIC Code (2 digit):			
Canadian SIC Code:			
SIC Code Description:			
American SIC Code:			
NAICS Code (2 digit):	21		
NAICS 2 Description:	Mining, quarrying, and oil and gas extraction		
NAICS Code (4 digit):	2123		
NAICS 4 Description:	Non-metallic mineral mining and quarrying		
NAICS Code (6 digit):	212315		
NAICS 6 Description:	Limestone mining and quarrying		

Substance Release Report

Category Type ID:	6
Category Type Desc:	Road dust
Category Type Desc (fr):	Poussières de routes
Grouping:	Total Air
Trans Code:	
Chem:	PM10 - Particulate Matter <= 10 Microns
Chem (fr):	PM10 - Matière particulaire <= 10 microns
Quantity:	29.4498
Unit:	tonnes
Basis of Estimate Cd:	E2
Basis of Estimate Desc:	E2- Published Emission Factors - In use from 2003 and onward

Category Type ID:	3
Category Type Desc:	Fugitive
Category Type Desc (fr):	Émissions fugitives
Grouping:	Total Air
Trans Code:	VOCs
Chem:	PM2.5 - Particulate Matter <= 2.5 Microns
Chem (fr):	PM2,5 - Matière particulaire <= 2,5 microns
Quantity:	1.7592
Unit:	tonnes
Basis of Estimate Cd:	E2
Basis of Estimate Desc:	E2- Published Emission Factors - In use from 2003 and onward

Category Type ID:	3
Category Type Desc:	Fugitive
Category Type Desc (fr):	Émissions fugitives
Grouping:	Total Air
Trans Code:	VOCs
Chem:	PM - Total Particulate Matter
Chem (fr):	PM - Particules totales
Quantity:	16.4783
Unit:	tonnes
Basis of Estimate Cd:	E2
Basis of Estimate Desc:	E2- Published Emission Factors - In use from 2003 and onward

Category Type ID:	3
Category Type Desc:	Fugitive
Category Type Desc (fr):	Émissions fugitives
Grouping:	Total Air
Trans Code:	VOCs
Chem:	PM10 - Particulate Matter <= 10 Microns
Chem (fr):	PM10 - Matière particulaire <= 10 microns
Quantity:	8.0909
Unit:	tonnes
Basis of Estimate Cd:	E2
Basis of Estimate Desc:	E2- Published Emission Factors - In use from 2003 and onward

Category Type ID:	6
Category Type Desc:	Road dust
Category Type Desc (fr):	Poussières de routes
Grouping:	Total Air
Trans Code:	
Chem:	PM2.5 - Particulate Matter <= 2.5 Microns
Chem (fr):	PM2,5 - Matière particulaire <= 2,5 microns
Quantity:	2.945
Unit:	tonnes
Basis of Estimate Cd:	E2
Basis of Estimate Desc:	E2- Published Emission Factors - In use from 2003 and onward

Category Type ID:	6
Category Type Desc:	Road dust
Category Type Desc (fr):	Poussières de routes
Grouping:	Total Air
Trans Code:	
Chem:	PM - Total Particulate Matter
Chem (fr):	PM - Particules totales
Quantity:	103.5639
Unit:	tonnes
Basis of Estimate Cd:	E2
Basis of Estimate Desc:	E2- Published Emission Factors - In use from 2003 and onward

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Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
13	25 of 46	NE/204.0	119.8 / 2.06	**Lafarge Canada Inc.** **2531 Cawthra Road** **Mississauga ON L5A 2W7**	GEN

Generator No:	ON0570600	**Status:**	
SIC Code:	339990	**Co Admin:**	
SIC Description:	All Other Miscellaneous Manufacturing	**Choice of Contact:**	
Approval Years:	2010	**Phone No Admin:**	
PO Box No:		**Contam. Facility:**	
Country:		**MHSW Facility:**	

Detail(s)

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

Waste Class:	212
Waste Class Desc:	ALIPHATIC SOLVENTS

Waste Class:	213
Waste Class Desc:	PETROLEUM DISTILLATES

Waste Class:	221
Waste Class Desc:	LIGHT FUELS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
13	26 of 46	NE/204.0	119.8 / 2.06	**Lafarge Canada Inc.** **2531 Cawthra Road**	GEN

Mississauga ON L5A 2W7

Generator No:	ON0570600	***Status:***	
SIC Code:	339990	***Co Admin:***	
SIC Description:	All Other Miscellaneous Manufacturing	***Choice of Contact:***	
Approval Years:	2011	***Phone No Admin:***	
PO Box No:		***Contam. Facility:***	
Country:		***MHSW Facility:***	

Detail(s)

Waste Class:	213
Waste Class Desc:	PETROLEUM DISTILLATES
Waste Class:	221
Waste Class Desc:	LIGHT FUELS
Waste Class:	252
Waste Class Desc:	WASTE OILS & LUBRICANTS
Waste Class:	212
Waste Class Desc:	ALIPHATIC SOLVENTS

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13 ***27 of 46*** ***NE/204.0*** ***119.8 / 2.06*** ***GEN***

Lafarge Canada Inc.
2531 Cawthra Road
Mississauga ON L5A 2W7

Generator No:	ON0570600	***Status:***	
SIC Code:	339990	***Co Admin:***	
SIC Description:	All Other Miscellaneous Manufacturing	***Choice of Contact:***	
Approval Years:	2012	***Phone No Admin:***	
PO Box No:		***Contam. Facility:***	
Country:		***MHSW Facility:***	

Detail(s)

Waste Class:	221
Waste Class Desc:	LIGHT FUELS
Waste Class:	212
Waste Class Desc:	ALIPHATIC SOLVENTS
Waste Class:	213
Waste Class Desc:	PETROLEUM DISTILLATES
Waste Class:	252
Waste Class Desc:	WASTE OILS & LUBRICANTS

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13 ***28 of 46*** ***NE/204.0*** ***119.8 / 2.06*** ***NPRI***

FRANCESCHINI BROS. AGGREGATES
2531 CAWTHRA ROAD NOT AVAILABLE
MISSISSAUGA ON L7K3L3

NPRI ID:	25236	***Org ID:***	48893
Other ID:		***Submit Date:***	5/1/2013
No Other ID:		***Last Modified:***	5/29/2015 3:28:24 PM
Track ID:	110090	***Contact ID:***	
Report ID:	14664	***Cont Type:***	
Report Type:	DNMC	***Contact Title:***	
Rpt Type ID:	2	***Cont First Name:***	
Report Year:	2012	***Cont Last Name:***	
Not-Current Rpt?:	No	***Contact Position:***	
Yr of Last Filed Rpt:	2012	***Contact Fax:***	

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

Fac ID:	207265	**Contact Ph.:**	
Fac Name:	PIT NO. 1 (DODDS) AGG SITE	**Cont Area Code:**	
Fac Address1:	2531 CAWTHRA ROAD	**Contact Tel.:**	
Fac Address2:	NOT AVAILABLE	**Contact Ext.:**	
Fac Postal Zip:	L7K3L3	**Cont Fax Area Cde:**	
Facility Lat:	0	**Contact Fax:**	
Facility Long:	0	**Contact Email:**	
DLS (Last Filed Rpt):		**Latitude:**	43.593718
Facility DLS:		**Longitude:**	-79.596612
Datum:	1983	**UTM Zone:**	
Facility Cmnts:		**UTM Northing:**	
URL:		**UTM Easting:**	
No of Empl.:		**Waste Streams:**	
Parent Co.:		**No Streams:**	
No Parent Co.:		**Waste Off Sites:**	
Pollut Prev Cmnts:		**No Off Sites:**	
Stacks:		**Shutdown:**	
No of Stacks:		**No of Shutdown:**	
Canadian SIC Code (2 digit):			
Canadian SIC Code:			
SIC Code Description:			
American SIC Code:			
NAICS Code (2 digit):	21		
NAICS 2 Description:	Mining, quarrying, and oil and gas extraction		
NAICS Code (4 digit):	2123		
NAICS 4 Description:	Non-metallic mineral mining and quarrying		
NAICS Code (6 digit):	212315		
NAICS 6 Description:	Limestone mining and quarrying		

13	29 of 46	NE/204.0	119.8 / 2.06	**FRANCESCHINI BROS. AGGREGATES** **2531 CAWTHRA Road** **MISSISSAUGA ON L5A2W7**	NPRI

NPRI ID:	8800000190	**Org ID:**	
Other ID:		**Submit Date:**	
No Other ID:		**Last Modified:**	
Track ID:		**Contact ID:**	
Report ID:		**Cont Type:**	MED
Report Type:		**Contact Title:**	Mr.
Rpt Type ID:		**Cont First Name:**	TOM
Report Year:	2005	**Cont Last Name:**	BAUMGARTEN
Not-Current Rpt?:		**Contact Position:**	Environmental Compliance Manager
Yr of Last Filed Rpt:		**Contact Fax:**	
Fac ID:		**Contact Ph.:**	
Fac Name:	PIT NO. 2 (SMITH)	**Cont Area Code:**	905
Fac Address1:		**Contact Tel.:**	7387070
Fac Address2:		**Contact Ext.:**	
Fac Postal Zip:		**Cont Fax Area Cde:**	905
Facility Lat:		**Contact Fax:**	7387080
Facility Long:		**Contact Email:**	tom.baumgarten@lafarge-na.com
DLS (Last Filed Rpt):		**Latitude:**	
Facility DLS:		**Longitude:**	
Datum:		**UTM Zone:**	
Facility Cmnts:		**UTM Northing:**	
URL:		**UTM Easting:**	
No of Empl.:	2	**Waste Streams:**	
Parent Co.:		**No Streams:**	
No Parent Co.:		**Waste Off Sites:**	
Pollut Prev Cmnts:		**No Off Sites:**	
Stacks:		**Shutdown:**	
No of Stacks:		**No of Shutdown:**	
Canadian SIC Code (2 digit):			
Canadian SIC Code:			
SIC Code Description:			
American SIC Code:			

NAICS Code (2 digit):	21
NAICS 2 Description:	Mining, Quarrying, and Oil and Gas Extraction
NAICS Code (4 digit):	2123
NAICS 4 Description:	Non-Metallic Mineral Mining and Quarrying
NAICS Code (6 digit):	212323
NAICS 6 Description:	Sand and Gravel Mining and Quarrying

Substance Release Report

CAS No:	NA - M09
Report ID:	
Rpt Period:	2005
Subst Released:	PM10 - Particulate Matter <= 10 Microns
Air:	
Water:	
Land:	
Total Releases:	0
Units:	tonnes

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13 | ***30 of 46*** | ***NE/204.0*** | ***119.8 / 2.06*** | ***FRANCESCHINI BROS. AGGREGATES***
2531 CAWTHRA Road
MISSISSAUGA ON L5A2W7 | ***NPRI***

NPRI ID:	8800000042	**Org ID:**	
Other ID:		**Submit Date:**	
No Other ID:		**Last Modified:**	
Track ID:		**Contact ID:**	
Report ID:		**Cont Type:**	MED
Report Type:		**Contact Title:**	Mr.
Rpt Type ID:		**Cont First Name:**	TOM
Report Year:	2006	**Cont Last Name:**	BAUMGARTEN
Not-Current Rpt?:		**Contact Position:**	Environmental Compliance Manager
Yr of Last Filed Rpt:		**Contact Fax:**	
Fac ID:		**Contact Ph.:**	
Fac Name:	PIT NO. 1 (DODDS) AGG SITE	**Cont Area Code:**	905
Fac Address1:		**Contact Tel.:**	7387070
Fac Address2:		**Contact Ext.:**	
Fac Postal Zip:		**Cont Fax Area Cde:**	905
Facility Lat:		**Contact Fax:**	7387080
Facility Long:		**Contact Email:**	tom.baumgarten@lafarge-na.com
DLS (Last Filed Rpt):		**Latitude:**	
Facility DLS:		**Longitude:**	
Datum:		**UTM Zone:**	
Facility Cmnts:		**UTM Northing:**	
URL:		**UTM Easting:**	
No of Empl.:	2	**Waste Streams:**	
Parent Co.:		**No Streams:**	
No Parent Co.:		**Waste Off Sites:**	
Pollut Prev Cmnts:		**No Off Sites:**	
Stacks:		**Shutdown:**	
No of Stacks:		**No of Shutdown:**	
Canadian SIC Code (2 digit):			
Canadian SIC Code:			
SIC Code Description:			
American SIC Code:			
NAICS Code (2 digit):	21		
NAICS 2 Description:	Mining, Quarrying, and Oil and Gas Extraction		
NAICS Code (4 digit):	2123		
NAICS 4 Description:	Non-Metallic Mineral Mining and Quarrying		
NAICS Code (6 digit):	212323		
NAICS 6 Description:	Sand and Gravel Mining and Quarrying		

Substance Release Report

CAS No: NA - M09
Report ID:
Rpt Period: 2006
Subst Released: PM10 - Particulate Matter <= 10 Microns
Air:
Water:
Land:
Total Releases: 0
Units: tonnes

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13 | **31 of 46** | **NE/204.0** | **119.8 / 2.06** | **FRANCESCHINI BROS. AGGREGATES**
2531 CAWTHRA Road
MISSISSAUGA ON L5A2W7 | **NPRI**

NPRI ID: 8800001101
Other ID:
No Other ID:
Track ID:
Report ID:
Report Type:
Rpt Type ID:
Report Year: 2004
Not-Current Rpt?:
Yr of Last Filed Rpt:
Fac ID:
Fac Name: PRESSWOOD PIT
Fac Address1:
Fac Address2:
Fac Postal Zip:
Facility Lat:
Facility Long:
DLS (Last Filed Rpt):
Facility DLS:
Datum:
Facility Cmnts:
URL:
No of Empl.: 2
Parent Co.:
No Parent Co.:
Pollut Prev Cmnts:
Stacks:
No of Stacks:
Canadian SIC Code (2 digit):
Canadian SIC Code:
SIC Code Description:
American SIC Code:
NAICS Code (2 digit): 21
NAICS 2 Description: Mining, Quarrying, and Oil and Gas Extraction
NAICS Code (4 digit): 2123
NAICS 4 Description: Non-Metallic Mineral Mining and Quarrying
NAICS Code (6 digit): 212323
NAICS 6 Description: Sand and Gravel Mining and Quarrying

Org ID:
Submit Date:
Last Modified:
Contact ID:
Cont Type: MED
Contact Title: Mr.
Cont First Name: TOM
Cont Last Name: BAUMGARTEN
Contact Position: Environmental Compliance Manager
Contact Fax:
Contact Ph.:
Cont Area Code: 905
Contact Tel.: 7387070
Contact Ext.:
Cont Fax Area Cde: 905
Contact Fax: 7387080
Contact Email: tom.baumgarten@lafarge-na.com
Latitude:
Longitude:
UTM Zone:
UTM Northing:
UTM Easting:
Waste Streams:
No Streams:
Waste Off Sites:
No Off Sites:
Shutdown:
No of Shutdown:

Substance Release Report

CAS No: 10024-97-2
Report ID:
Rpt Period: 2004
Subst Released: Nitrous oxide
Air:
Water:
Land:
Total Releases:

Units:	tonnes
CAS No:	11104-93-1
Report ID:	
Rpt Period:	2004
Subst Released:	Nitrogen oxides (expressed as NO2)
Air:	
Water:	
Land:	
Total Releases:	
Units:	tonnes
CAS No:	7446-09-5
Report ID:	
Rpt Period:	2004
Subst Released:	Sulphur dioxide
Air:	
Water:	
Land:	
Total Releases:	
Units:	tonnes
CAS No:	124-38-9
Report ID:	
Rpt Period:	2004
Subst Released:	Carbon dioxide
Air:	
Water:	
Land:	
Total Releases:	
Units:	tonnes
CAS No:	74-82-8
Report ID:	
Rpt Period:	2004
Subst Released:	Methane
Air:	
Water:	
Land:	
Total Releases:	
Units:	tonnes
CAS No:	NA - M09
Report ID:	
Rpt Period:	2004
Subst Released:	PM10 - Particulate Matter <= 10 Microns
Air:	.091
Water:	
Land:	
Total Releases:	.091
Units:	tonnes
CAS No:	811-97-2
Report ID:	
Rpt Period:	2004
Subst Released:	HFC-134a Hydrofluorocarbon
Air:	
Water:	
Land:	
Total Releases:	
Units:	tonnes
CAS No:	NA - M08
Report ID:	
Rpt Period:	2004
Subst Released:	PM - Total Particulate Matter

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

Air:	
Water:	
Land:	
Total Releases:	
Units:	tonnes
CAS No:	NA - M10
Report ID:	
Rpt Period:	2004
Subst Released:	PM2.5 - Particulate Matter <= 2.5 Microns
Air:	
Water:	
Land:	
Total Releases:	
Units:	tonnes
CAS No:	630-08-0
Report ID:	
Rpt Period:	2004
Subst Released:	Carbon monoxide
Air:	
Water:	
Land:	
Total Releases:	
Units:	tonnes
CAS No:	NA - M16
Report ID:	
Rpt Period:	2004
Subst Released:	Volatile Organic Compounds (VOCs)
Air:	
Water:	
Land:	
Total Releases:	
Units:	tonnes

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13 | ***32 of 46*** | ***NE/204.0*** | ***119.8 / 2.06*** | ***FRANCESCHINI BROS. AGGREGATES***
2531 CAWTHRA Road
MISSISSAUGA ON L5A2W7 | ***NPRI***

NPRI ID:	8800000052	**Org ID:**	
Other ID:		**Submit Date:**	
No Other ID:		**Last Modified:**	
Track ID:		**Contact ID:**	
Report ID:		**Cont Type:**	MED
Report Type:		**Contact Title:**	Mr.
Rpt Type ID:		**Cont First Name:**	TOM
Report Year:	2006	**Cont Last Name:**	BAUMGARTEN
Not-Current Rpt?:		**Contact Position:**	Environmental Compliance Manager
Yr of Last Filed Rpt:		**Contact Fax:**	
Fac ID:		**Contact Ph.:**	
Fac Name:	PRESSWOOD PIT	**Cont Area Code:**	905
Fac Address1:		**Contact Tel.:**	7387070
Fac Address2:		**Contact Ext.:**	
Fac Postal Zip:		**Cont Fax Area Cde:**	905
Facility Lat:		**Contact Fax:**	7387080
Facility Long:		**Contact Email:**	tom.baumgarten@lafarge-na.com
DLS (Last Filed Rpt):		**Latitude:**	
Facility DLS:		**Longitude:**	
Datum:		**UTM Zone:**	
Facility Cmnts:		**UTM Northing:**	
URL:		**UTM Easting:**	
No of Empl.:	0	**Waste Streams:**	
Parent Co.:		**No Streams:**	
No Parent Co.:		**Waste Off Sites:**	

Pollut Prev Cmnts:		**No Off Sites:**	
Stacks:		**Shutdown:**	
No of Stacks:		**No of Shutdown:**	
Canadian SIC Code (2 digit):			
Canadian SIC Code:			
SIC Code Description:			
American SIC Code:			
NAICS Code (2 digit):	21		
NAICS 2 Description:	Mining, Quarrying, and Oil and Gas Extraction		
NAICS Code (4 digit):	2123		
NAICS 4 Description:	Non-Metallic Mineral Mining and Quarrying		
NAICS Code (6 digit):	212323		
NAICS 6 Description:	Sand and Gravel Mining and Quarrying		

Substance Release Report

CAS No:	NA - M08
Report ID:	
Rpt Period:	2006
Subst Released:	PM - Total Particulate Matter
Air:	
Water:	
Land:	
Total Releases:	
Units:	tonnes

---

13 | ***33 of 46*** | ***NE/204.0*** | ***119.8 / 2.06*** | ***FRANCESCHINI BROS. AGGREGATES***
2531 CAWTHRA Road
MISSISSAUGA ON L5A2W7 | ***NPRI***

NPRI ID:	8800000189	**Org ID:**	
Other ID:		**Submit Date:**	
No Other ID:		**Last Modified:**	
Track ID:		**Contact ID:**	
Report ID:		**Cont Type:**	MED
Report Type:		**Contact Title:**	Mr.
Rpt Type ID:		**Cont First Name:**	TOM
Report Year:	2005	**Cont Last Name:**	BAUMGARTEN
Not-Current Rpt?:		**Contact Position:**	Environmental Compliance Manager
Yr of Last Filed Rpt:		**Contact Fax:**	
Fac ID:		**Contact Ph.:**	
Fac Name:	PIT NO. 1 (DODDS) AGG SITE	**Cont Area Code:**	905
Fac Address1:		**Contact Tel.:**	7387070
Fac Address2:		**Contact Ext.:**	
Fac Postal Zip:		**Cont Fax Area Cde:**	905
Facility Lat:		**Contact Fax:**	7387080
Facility Long:		**Contact Email:**	tom.baumgarten@lafarge-na.com
DLS (Last Filed Rpt):		**Latitude:**	
Facility DLS:		**Longitude:**	
Datum:		**UTM Zone:**	
Facility Cmnts:		**UTM Northing:**	
URL:		**UTM Easting:**	
No of Empl.:	2	**Waste Streams:**	
Parent Co.:		**No Streams:**	
No Parent Co.:		**Waste Off Sites:**	
Pollut Prev Cmnts:		**No Off Sites:**	
Stacks:		**Shutdown:**	
No of Stacks:		**No of Shutdown:**	
Canadian SIC Code (2 digit):			
Canadian SIC Code:			
SIC Code Description:			
American SIC Code:			
NAICS Code (2 digit):	21		
NAICS 2 Description:	Mining, Quarrying, and Oil and Gas Extraction		

NAICS Code (4 digit):	2123
NAICS 4 Description:	Non-Metallic Mineral Mining and Quarrying
NAICS Code (6 digit):	212323
NAICS 6 Description:	Sand and Gravel Mining and Quarrying

Substance Release Report

CAS No:	NA - M09
Report ID:	
Rpt Period:	2005
Subst Released:	PM10 - Particulate Matter <= 10 Microns
Air:	
Water:	
Land:	
Total Releases:	0
Units:	tonnes

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13 | ***34 of 46*** | ***NE/204.0*** | ***119.8 / 2.06*** | ***FRANCESCHINI BROS. AGGREGATES***
2531 CAWTHRA Road
MISSISSAUGA ON L5A2W7 | ***NPRI***

NPRI ID:	8800001098	***Org ID:***	
Other ID:		***Submit Date:***	
No Other ID:		***Last Modified:***	
Track ID:		***Contact ID:***	
Report ID:		***Cont Type:***	MED
Report Type:		***Contact Title:***	Mr.
Rpt Type ID:		***Cont First Name:***	TOM
Report Year:	2004	***Cont Last Name:***	BAUMGARTEN
Not-Current Rpt?:		***Contact Position:***	Environmental Compliance Manager
Yr of Last Filed Rpt:		***Contact Fax:***	
Fac ID:		***Contact Ph.:***	
Fac Name:	PIT NO. 1 (DODDS) AGG SITE	***Cont Area Code:***	905
Fac Address1:		***Contact Tel.:***	7387070
Fac Address2:		***Contact Ext.:***	
Fac Postal Zip:		***Cont Fax Area Cde:***	905
Facility Lat:		***Contact Fax:***	7387080
Facility Long:		***Contact Email:***	tom.baumgarten@lafarge-na.com
DLS (Last Filed Rpt):		***Latitude:***	
Facility DLS:		***Longitude:***	
Datum:		***UTM Zone:***	
Facility Cmnts:		***UTM Northing:***	
URL:		***UTM Easting:***	
No of Empl.:	2	***Waste Streams:***	
Parent Co.:		***No Streams:***	
No Parent Co.:		***Waste Off Sites:***	
Pollut Prev Cmnts:		***No Off Sites:***	
Stacks:		***Shutdown:***	
No of Stacks:		***No of Shutdown:***	
Canadian SIC Code (2 digit):			
Canadian SIC Code:			
SIC Code Description:			
American SIC Code:			

NAICS Code (2 digit):	21
NAICS 2 Description:	Mining, Quarrying, and Oil and Gas Extraction
NAICS Code (4 digit):	2123
NAICS 4 Description:	Non-Metallic Mineral Mining and Quarrying
NAICS Code (6 digit):	212323
NAICS 6 Description:	Sand and Gravel Mining and Quarrying

Substance Release Report

CAS No:	74-82-8

Report ID:
Rpt Period: 2004
Subst Released: Methane
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: 124-38-9
Report ID:
Rpt Period: 2004
Subst Released: Carbon dioxide
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: 10024-97-2
Report ID:
Rpt Period: 2004
Subst Released: Nitrous oxide
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: 11104-93-1
Report ID:
Rpt Period: 2004
Subst Released: Nitrogen oxides (expressed as NO2)
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: 630-08-0
Report ID:
Rpt Period: 2004
Subst Released: Carbon monoxide
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: 811-97-2
Report ID:
Rpt Period: 2004
Subst Released: HFC-134a Hydrofluorocarbon
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: NA - M08
Report ID:
Rpt Period: 2004
Subst Released: PM - Total Particulate Matter
Air:
Water:
Land:

Total Releases:	
Units:	tonnes
CAS No:	NA - M16
Report ID:	
Rpt Period:	2004
Subst Released:	Volatile Organic Compounds (VOCs)
Air:	
Water:	
Land:	
Total Releases:	
Units:	tonnes
CAS No:	7446-09-5
Report ID:	
Rpt Period:	2004
Subst Released:	Sulphur dioxide
Air:	
Water:	
Land:	
Total Releases:	
Units:	tonnes
CAS No:	NA - M09
Report ID:	
Rpt Period:	2004
Subst Released:	PM10 - Particulate Matter <= 10 Microns
Air:	.028
Water:	
Land:	
Total Releases:	.028
Units:	tonnes
CAS No:	NA - M10
Report ID:	
Rpt Period:	2004
Subst Released:	PM2.5 - Particulate Matter <= 2.5 Microns
Air:	
Water:	
Land:	
Total Releases:	
Units:	tonnes

13	35 of 46	NE/204.0	119.8 / 2.06	**FRANCESCHINI BROS. AGGREGATES** **2531 CAWTHRA Road** **MISSISSAUGA ON L5A2W7**	NPRI

NPRI ID:	8800001100	**Org ID:**	
Other ID:		**Submit Date:**	
No Other ID:		**Last Modified:**	
Track ID:		**Contact ID:**	
Report ID:		**Cont Type:**	MED
Report Type:		**Contact Title:**	Mr.
Rpt Type ID:		**Cont First Name:**	TOM
Report Year:	2004	**Cont Last Name:**	BAUMGARTEN
Not-Current Rpt?:		**Contact Position:**	Environmental Compliance Manager
Yr of Last Filed Rpt:		**Contact Fax:**	
Fac ID:		**Contact Ph.:**	
Fac Name:	PIT NO. 2 (SMITH)	**Cont Area Code:**	905
Fac Address1:		**Contact Tel.:**	7387070
Fac Address2:		**Contact Ext.:**	
Fac Postal Zip:		**Cont Fax Area Cde:**	905
Facility Lat:		**Contact Fax:**	7387080
Facility Long:		**Contact Email:**	tom.baumgarten@lafarge-na.com
DLS (Last Filed Rpt):		**Latitude:**	

Facility DLS: ***Longitude:***
Datum: ***UTM Zone:***
Facility Cmnts: ***UTM Northing:***
URL: ***UTM Easting:***
No of Empl.: 2 ***Waste Streams:***
Parent Co.: ***No Streams:***
No Parent Co.: ***Waste Off Sites:***
Pollut Prev Cmnts: ***No Off Sites:***
Stacks: ***Shutdown:***
No of Stacks: ***No of Shutdown:***
Canadian SIC Code (2 digit):
Canadian SIC Code:
SIC Code Description:
American SIC Code:
NAICS Code (2 digit): 21
NAICS 2 Description: Mining, Quarrying, and Oil and Gas Extraction
NAICS Code (4 digit): 2123
NAICS 4 Description: Non-Metallic Mineral Mining and Quarrying
NAICS Code (6 digit): 212323
NAICS 6 Description: Sand and Gravel Mining and Quarrying

Substance Release Report

CAS No: 630-08-0
Report ID:
Rpt Period: 2004
Subst Released: Carbon monoxide
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: 74-82-8
Report ID:
Rpt Period: 2004
Subst Released: Methane
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: 7446-09-5
Report ID:
Rpt Period: 2004
Subst Released: Sulphur dioxide
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: 811-97-2
Report ID:
Rpt Period: 2004
Subst Released: HFC-134a Hydrofluorocarbon
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: 10024-97-2
Report ID:

Rpt Period: 2004
Subst Released: Nitrous oxide
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: 11104-93-1
Report ID:
Rpt Period: 2004
Subst Released: Nitrogen oxides (expressed as NO2)
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: NA - M10
Report ID:
Rpt Period: 2004
Subst Released: PM2.5 - Particulate Matter <= 2.5 Microns
Air: .301
Water:
Land:
Total Releases: .301
Units: tonnes

CAS No: NA - M16
Report ID:
Rpt Period: 2004
Subst Released: Volatile Organic Compounds (VOCs)
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: 124-38-9
Report ID:
Rpt Period: 2004
Subst Released: Carbon dioxide
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: NA - M08
Report ID:
Rpt Period: 2004
Subst Released: PM - Total Particulate Matter
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: NA - M09
Report ID:
Rpt Period: 2004
Subst Released: PM10 - Particulate Matter <= 10 Microns
Air: .941
Water:
Land:
Total Releases: .941

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Units:		tonnes			

13 **36 of 46** **NE/204.0** **119.8 / 2.06** **Lafarge Canada Inc.** **GEN**
2531 Cawthra Road
Mississauga ON

Generator No: ON0570600
SIC Code: 339990
SIC Description: ALL OTHER MISCELLANEOUS MANUFACTURING
Approval Years: 2013
PO Box No:
Country:

Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

Waste Class: 251
Waste Class Desc: OIL SKIMMINGS & SLUDGES

Waste Class: 221
Waste Class Desc: LIGHT FUELS

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

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

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13 **37 of 46** **NE/204.0** **119.8 / 2.06** **FRANCESCHINI BROS AGGREGATES LIMITED** **DTNK**
2531 CAWTHRA RD MISSISSAUGA L5A 2W7 ON
CA
ON

Delisted Expired Fuel Safety Facilities

Instance No: 10853092
Status: EXPIRED
Instance ID:
Instance Type:
Instance Creation Dt: 7/19/2000 8:15:15 PM
Instance Install Dt: 7/13/2003
Item Description: FS Liquid Fuel Tank
Manufacturer: NULL
Model: NULL
Serial No: NULL
ULC Standard: NULL
Quantity: 1
Unit of Measure: EA
Overfill Prot Type: NULL
Creation Date: 7/5/2009 1:21:32 AM
Next Periodic Str DT: NULL
TSSA Base Sched Cycle 2: NULL
TSSAMax Hazard Rank 1: NULL
TSSA Risk Based Periodic Yn: NULL
TSSA Volume of Directives: NULL
TSSA Periodic Exempt: NULL
TSSA Statutory Interval: NULL

Expired Date:
Max Hazard Rank: NULL
Facility Location: 2531 CAWTHRA RD MISSISSAUGA L5A 2W7 ON CA
Facility Type: FS LIQUID FUEL TANK
Fuel Type 2: NULL
Fuel Type 3: NULL
Panam Related: NULL
Panam Venue Nm: NULL
External Identifier: NULL
Item:
Piping Steel:
Piping Galvanized:
Tank Single Wall St:
Piping Underground:
Tank Underground:
Source: FS Liquid Fuel Tank

TSSA Recd Insp Interva:	NULL
TSSA Recd Tolerance:	NULL
TSSA Program Area:	NULL
TSSA Program Area 2:	NULL
Description:	UNDERGROUND TANK**cnxld per PRL Env Serv. letter- Paul Loney P. Eng/ UST's removed on JUne 13/03
Original Source:	EXP
Record Date:	31-JUL-2020

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13 | **38 of 46** | **NE/204.0** | **119.8 / 2.06** | **Lafarge Canada Inc.**
2531 Cawthra Road
Mississauga ON | **SPL**

Ref No:	4214-AE9Q6V	**Discharger Report:**	
Site No:	NA	**Material Group:**	
Incident Dt:	9/29/2016	**Health/Env Conseq:**	
Year:		**Client Type:**	
Incident Cause:		**Sector Type:**	Industrial Minerals
Incident Event:	Leak/Break	**Agency Involved:**	
Contaminant Code:	15	**Nearest Watercourse:**	
Contaminant Name:	HYDRAULIC OIL	**Site Address:**	2531 Cawthra Road
Contaminant Limit 1:		**Site District Office:**	
Contam Limit Freq 1:		**Site Postal Code:**	
Contaminant UN No 1:		**Site Region:**	
Environment Impact:		**Site Municipality:**	Mississauga
Nature of Impact:		**Site Lot:**	
Receiving Medium:		**Site Conc:**	
Receiving Env:	Land	**Northing:**	4827681
MOE Response:		**Easting:**	613209
Dt MOE Arvl on Scn:		**Site Geo Ref Accu:**	
MOE Reported Dt:	9/29/2016	**Site Map Datum:**	
Dt Document Closed:		**SAC Action Class:**	Land Spills
Incident Reason:	Equipment Failure	**Source Type:**	
Site Name:	Franceschini Brothers Aggregates<UNOFFICIAL>		
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	Franceschini Bros: ~ 200 L of hydraulic oil to land, cntd & clnd		
Contaminant Qty:	200 L		

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13 | **39 of 46** | **NE/204.0** | **119.8 / 2.06** | **Lafarge Canada Inc.**
2531 Cawthra Rd
Mississauga ON NA | **SPL**

Ref No:	8108-ADYR4F	**Discharger Report:**	
Site No:	2698-6U8LQ6	**Material Group:**	
Incident Dt:	9/20/2016	**Health/Env Conseq:**	
Year:		**Client Type:**	
Incident Cause:		**Sector Type:**	Miscellaneous Industrial
Incident Event:	Leak/Break	**Agency Involved:**	
Contaminant Code:	15	**Nearest Watercourse:**	
Contaminant Name:	HYDRAULIC OIL	**Site Address:**	2531 Cawthra Rd
Contaminant Limit 1:		**Site District Office:**	
Contam Limit Freq 1:		**Site Postal Code:**	NA
Contaminant UN No 1:		**Site Region:**	
Environment Impact:		**Site Municipality:**	Mississauga
Nature of Impact:		**Site Lot:**	
Receiving Medium:		**Site Conc:**	
Receiving Env:	Land	**Northing:**	4827567
MOE Response:		**Easting:**	613302
Dt MOE Arvl on Scn:		**Site Geo Ref Accu:**	NA
MOE Reported Dt:	9/20/2016	**Site Map Datum:**	NA
Dt Document Closed:	10/3/2016	**SAC Action Class:**	Land Spills
Incident Reason:	Equipment Failure	**Source Type:**	
Site Name:	2531 Cawthra Road		

Site County/District:
Site Geo Ref Meth: NA
Incident Summary: LaFarge: 200L hydraulic oil to grnd, cnted, clned.
Contaminant Qty: 200 L

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13 | **40 of 46** | **NE/204.0** | **119.8 / 2.06** | **Lafarge Canada Inc.**
2531 Cawthra Road
Mississauga ON L5A 2W7 | **GEN**

Generator No: ON0570600
SIC Code: 339990
SIC Description: ALL OTHER MISCELLANEOUS MANUFACTURING
Approval Years: 2016
PO Box No:
Country: Canada

Status:
Co Admin: Amanda Kiu
Choice of Contact: CO_OFFICIAL
Phone No Admin: 905-738-2997 Ext.
Contam. Facility: No
MHSW Facility: No

Detail(s)

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

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 251
Waste Class Desc: OIL SKIMMINGS & SLUDGES

Waste Class: 221
Waste Class Desc: LIGHT FUELS

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

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13 | **41 of 46** | **NE/204.0** | **119.8 / 2.06** | **Lafarge Canada Inc.**
2531 Cawthra Road
Mississauga ON L5A 2W7 | **GEN**

Generator No: ON0570600
SIC Code: 339990
SIC Description: ALL OTHER MISCELLANEOUS MANUFACTURING
Approval Years: 2015
PO Box No:
Country: Canada

Status:
Co Admin: Angelo Sorce
Choice of Contact: CO_OFFICIAL
Phone No Admin: 905-738-7070 Ext.
Contam. Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 221
Waste Class Desc: LIGHT FUELS

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

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

Waste Class: 251
Waste Class Desc: OIL SKIMMINGS & SLUDGES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
13	42 of 46	NE/204.0	119.8 / 2.06	**Lafarge Canada Inc.** **2531 Cawthra Road** **Mississauga ON L5A 2W7**	GEN

Generator No: ON0570600
SIC Code: 339990
SIC Description: ALL OTHER MISCELLANEOUS MANUFACTURING
Approval Years: 2014
PO Box No:
Country: Canada

Status:
Co Admin: Angelo Sorce
Choice of Contact: CO_ADMIN
Phone No Admin: 905-738-7070 Ext.
Contam. Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

Waste Class: 251
Waste Class Desc: OIL SKIMMINGS & SLUDGES

Waste Class: 221
Waste Class Desc: LIGHT FUELS

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

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
13	43 of 46	NE/204.0	119.8 / 2.06	**Lafarge Canada Inc.** **2531 Cawthra Road** **Mississauga ON L5A 2W7**	GEN

Generator No: ON0570600
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada

Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 212 L
Waste Class Desc: Aliphatic solvents and residues

Waste Class: 213 I
Waste Class Desc: Petroleum distillates

Waste Class: 221 I
Waste Class Desc: Light fuels

Waste Class: 251 L
Waste Class Desc: Waste oils/sludges (petroleum based)

Waste Class: 252 L
Waste Class Desc: Waste crankcase oils and lubricants

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
13	44 of 46	NE/204.0	119.8 / 2.06	**Lafarge Canada Inc.** **2531 Cawthra Road** **Mississauga ON**	SPL

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

Ref No:	3158-AXNW5A	**Discharger Report:**	
Site No:	NA	**Material Group:**	
Incident Dt:	2018/04/09	**Health/Env Conseq:**	2 - Minor Environment
Year:		**Client Type:**	Corporation
Incident Cause:		**Sector Type:**	Miscellaneous Industrial
Incident Event:	Leak/Break	**Agency Involved:**	
Contaminant Code:	15	**Nearest Watercourse:**	
Contaminant Name:	HYDRAULIC OIL	**Site Address:**	2531 Cawthra Road
Contaminant Limit 1:		**Site District Office:**	Halton-Peel
Contam Limit Freq 1:		**Site Postal Code:**	
Contaminant UN No 1:	n/a	**Site Region:**	Central
Environment Impact:		**Site Municipality:**	Mississauga
Nature of Impact:		**Site Lot:**	
Receiving Medium:		**Site Conc:**	
Receiving Env:	Land	**Northing:**	4827795
MOE Response:	No	**Easting:**	613025
Dt MOE Arvl on Scn:		**Site Geo Ref Accu:**	
MOE Reported Dt:	2018/04/09	**Site Map Datum:**	
Dt Document Closed:		**SAC Action Class:**	Land Spills
Incident Reason:	Equipment Failure	**Source Type:**	Valve/Fitting/Piping

Site Name: France Schini Brother Aggregates Depot <UNOFFICIAL>
Site County/District: Regional Municipality of Peel
Site Geo Ref Meth:
Incident Summary: LaFarge Canada: 120L hydraulic oil to grnd, cnted, clned.
Contaminant Qty: 120 L

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13 | ***45 of 46*** | ***NE/204.0*** | ***119.8 / 2.06*** | ***Lafarge Canada Inc.***
2531 Cawthra Road
Mississauga ON L5A 2W7 | ***GEN***

Generator No:	ON0570600	**Status:**	Registered
SIC Code:		**Co Admin:**	
SIC Description:		**Choice of Contact:**	
Approval Years:	As of Jul 2020	**Phone No Admin:**	
PO Box No:		**Contam. Facility:**	
Country:	Canada	**MHSW Facility:**	

Detail(s)

Waste Class: 221 I
Waste Class Desc: Light fuels

Waste Class: 212 L
Waste Class Desc: Aliphatic solvents and residues

Waste Class: 213 I
Waste Class Desc: Petroleum distillates

Waste Class: 252 L
Waste Class Desc: Waste crankcase oils and lubricants

Waste Class: 251 L
Waste Class Desc: Waste oils/sludges (petroleum based)

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13 | ***46 of 46*** | ***NE/204.0*** | ***119.8 / 2.06*** | ***Franceschini Bros. Aggregates Ltd.***
2531 Cawthra Rd
Mississauga ON NA | ***SPL***

Ref No:	3553-BC8KLA	**Discharger Report:**	
Site No:	2698-6U8LQ6	**Material Group:**	
Incident Dt:	5/15/2019	**Health/Env Conseq:**	2 - Minor Environment
Year:		**Client Type:**	Corporation

Incident Cause:		**Sector Type:**	
Incident Event:		**Agency Involved:**	
Contaminant Code:		**Nearest Watercourse:**	
Contaminant Name:		**Site Address:**	2531 Cawthra Rd
Contaminant Limit 1:		**Site District Office:**	Halton-Peel
Contam Limit Freq 1:		**Site Postal Code:**	NA
Contaminant UN No 1:		**Site Region:**	Central
Environment Impact:		**Site Municipality:**	Mississauga
Nature of Impact:		**Site Lot:**	
Receiving Medium:		**Site Conc:**	NA
Receiving Env:		**Northing:**	4827567
MOE Response:	No	**Easting:**	613302
Dt MOE Arvl on Scn:		**Site Geo Ref Accu:**	NA
MOE Reported Dt:	5/16/2019	**Site Map Datum:**	NA
Dt Document Closed:		**SAC Action Class:**	
Incident Reason:		**Source Type:**	

Site Name: 2531 Cawthra Road
Site County/District: Regional Municipality of Peel
Site Geo Ref Meth: NA
Incident Summary: Franceschini Brothers Agregates: Dust complaint
Contaminant Qty:

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14 **1 of 5** **NE/204.2** **119.8 / 2.06** **FRANCESCHINI BROS AGGREGATES LIMITED** **FST**
2531 CAWTHRA RD MISSISSAUGA L5A 2W7 ON CA
ON

Instance No:	10853110	**Manufacturer:**	
Status:		**Serial No:**	
Cont Name:		**Ulc Standard:**	
Instance Type:	FS Liquid Fuel Tank	**Quantity:**	
Item:		**Unit of Measure:**	
Item Description:	FS Liquid Fuel Tank	**Fuel Type:**	Diesel
Tank Type:	Single Wall UST	**Fuel Type2:**	NULL
Install Date:	11/7/1990	**Fuel Type3:**	NULL
Install Year:	1989	**Piping Steel:**	
Years in Service:		**Piping Galvanized:**	
Model:	NULL	**Tanks Single Wall St:**	
Description:		**Piping Underground:**	
Capacity:	9092	**No Underground:**	
Tank Material:	Fiberglass (FRP)	**Panam Related:**	
Corrosion Protect:	Fiberglass	**Panam Venue:**	
Overfill Protect:			

Facility Type: FS Liquid Fuel Tank
Parent Facility Type: Fuels Safety Private Fuel Outlet - Self Serve
Facility Location:
Device Installed Location: 2531 CAWTHRA RD MISSISSAUGA L5A 2W7 ON CA

Liquid Fuel Tank Details

Overfill Protection:
Owner Account Name: FRANCESCHINI BROS AGGREGATES LIMITED
Item: FS LIQUID FUEL TANK

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14 **2 of 5** **NE/204.2** **119.8 / 2.06** **FRANCESCHINI BROS AGGREGATES LIMITED** **FST**
2531 CAWTHRA RD MISSISSAUGA L5A 2W7 ON CA
ON

Instance No:	10853092	**Manufacturer:**	
Status:		**Serial No:**	
Cont Name:		**Ulc Standard:**	

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

Instance Type:		**Quantity:**	
Item:		**Unit of Measure:**	
Item Description:	FS Liquid Fuel Tank	**Fuel Type:**	Diesel
Tank Type:	Liquid Fuel Single Wall UST	**Fuel Type2:**	NULL
Install Date:	7/13/2003	**Fuel Type3:**	NULL
Install Year:	1989	**Piping Steel:**	
Years in Service:		**Piping Galvanized:**	
Model:	NULL	**Tanks Single Wall St:**	
Description:		**Piping Underground:**	
Capacity:	10000	**No Underground:**	
Tank Material:	Steel	**Panam Related:**	
Corrosion Protect:	Coating	**Panam Venue:**	
Overfill Protect:			

Facility Type: FS Liquid Fuel Tank
Parent Facility Type:
Facility Location:
Device Installed Location: 2531 CAWTHRA RD MISSISSAUGA L5A 2W7 ON CA

Liquid Fuel Tank Details

Overfill Protection:
Owner Account Name: FRANCESCHINI BROS AGGREGATES LIMITED
Item: FS LIQUID FUEL TANK

14	3 of 5	NE/204.2	119.8 / 2.06	***Lafarge Canada Inc.*** ***2531 Cawthra Road Mississauga , ON Canada*** ***ON***	EBR

EBR Registry No:	019-2585	**Decision Posted:**	
Ministry Ref No:	7304-BN9QAN	**Exception Posted:**	
Notice Type:	Instrument	**Section:**	Part II.1 (20.3 or 20.5)
Notice Stage:	Proposal Updated	**Act 1:**	Environmental Protection Act, R.S.O. 1990
Notice Date:		**Act 2:**	Environmental Protection Act
Proposal Date:	October 16, 2020	**Site Location Map:**	43.593675,-79.596686
Year:	2020		

Instrument Type: Environmental Compliance Approval (air)
Off Instrument Name: Environmental Compliance Approval (air) (EPA s.9)
Posted By: Ministry of the Environment, Conservation and Parks
Company Name:
Site Address: 2531 Cawthra Road Mississauga , ON Canada
Location Other:
Proponent Name: Lafarge Canada Inc.
Proponent Address: Lafarge Canada Inc. 6509 Airport Road Mississauga, ON L4V 1S7 Canada
Comment Period: October 16, 2020 - November 30, 2020 (45 days) Closed
URL: https://ero.ontario.ca/notice/019-2585

Site Location Details:

14	4 of 5	NE/204.2	119.8 / 2.06	***Lafarge Canada Inc.*** ***2531 Cawthra Road*** ***Mississauga ON L5A 2W7***	GEN

Generator No:	ON0570600	**Status:**	Registered
SIC Code:		**Co Admin:**	
SIC Description:		**Choice of Contact:**	
Approval Years:	As of Nov 2021	**Phone No Admin:**	
PO Box No:		**Contam. Facility:**	
Country:	Canada	**MHSW Facility:**	

Detail(s)

Waste Class: 212 L
Waste Class Desc: Aliphatic solvents and residues

Waste Class: 251 L
Waste Class Desc: Waste oils/sludges (petroleum based)

Waste Class: 213 I
Waste Class Desc: Petroleum distillates

Waste Class: 221 I
Waste Class Desc: Light fuels

Waste Class: 252 L
Waste Class Desc: Waste crankcase oils and lubricants

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14 | **5 of 5** | **NE/204.2** | **119.8 / 2.06** | **Lafarge Canada Inc.**
2531 Cawthra Rd
Mississauga ON L4V 1S7 | **ECA**

Approval No: 5299-BYZQ9Q
Approval Date: March 29, 2022
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name: Credit Valley
Approval Type: ECA-AIR
Project Type: AIR
Business Name: Lafarge Canada Inc.
Address: 2531 Cawthra Rd
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/7304-BN9QAN-13.pdf
PDF Site Location: 2531 Cawthra Road
Mississauga City, Regional Municipality of Peel

MOE District: Halton-Peel
City:
Longitude: -79.59862
Latitude: 43.593507
Geometry X: -8860877.8462000005
Geometry Y: 5402750.443099997

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15 | **1 of 42** | **ESE/208.7** | **113.7 / -4.10** | **Beaverbrook Cabinets Ltd.**
2446 Cawthra Rd Unit 3
Mississauga ON L5A 3K6 | **SCT**

Established: 9/1/1985
Plant Size (ft²): 7000
Employment:

--Details--
Description: Finish Carpentry Contractors
SIC/NAICS Code: 238350

Description: Wood Kitchen Cabinet and Counter Top Manufacturing
SIC/NAICS Code: 337110

Description: Wood Kitchen Cabinet and Counter Top Manufacturing
SIC/NAICS Code: 337110

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15 | **2 of 42** | **ESE/208.7** | **113.7 / -4.10** | **Bryant Electric Inc.**
2446 Cawthra Rd Unit 5
Mississauga ON L5A 3K6 | **SCT**

Established: 1981
Plant Size (ft²): 4000
Employment:

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

--Details--
Description: Switchgear and Switchboard, and Relay and Industrial Control Apparatus Manufacturing
SIC/NAICS Code: 335315

Description: Electrical Contractors
SIC/NAICS Code: 238210

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15 | ***3 of 42*** | ***ESE/208.7*** | ***113.7 / -4.10*** | ***DELI FACTORY LTD.***
2446 CAWTHRA RD UNIT 8
MISSISSAUGA ON L5A 3K6 | ***SCT***

Established: 0000
Plant Size (ft²): 0
Employment: 2

--Details--
Description: Rendering and Meat Processing from Carcasses
SIC/NAICS Code: 311614

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15 | ***4 of 42*** | ***ESE/208.7*** | ***113.7 / -4.10*** | ***Aloumac Custom Welding Ltd.***
2446 Cawthra Rd Unit 10
Mississauga ON L5A 3K6 | ***SCT***

Established: 1975
Plant Size (ft²): 6000
Employment: 6

--Details--
Description: Other Plate Work and Fabricated Structural Product Manufacturing
SIC/NAICS Code: 332319

Description: All Other Miscellaneous Fabricated Metal Product Manufacturing
SIC/NAICS Code: 332999

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15 | ***5 of 42*** | ***ESE/208.7*** | ***113.7 / -4.10*** | ***SHOOTING CHRONY INC***
2446 CAWTHRA RD BLDG 1 UNIT 10
MISSISSAUGA ON L5A 3K6 | ***SCT***

Established: 1987
Plant Size (ft²): 3000
Employment: 10

--Details--
Description: LABORATORY AND ANALYTICAL INSTRUMENTS
SIC/NAICS Code: 3826

Description: MEASURING AND CONTROLLING DEVICES, NOT ELSEWHERE CLASSIFIED
SIC/NAICS Code: 3829

Description: WATCHES, CLOCKS, CLOCKWORK OPERATED DEVICES, AND PARTS
SIC/NAICS Code: 3873

Description: PROFESSIONAL EQUIPMENT AND SUPPLIES, NOT ELSEWHERE CLASSIFIED
SIC/NAICS Code: 5049

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
15	6 of 42	ESE/208.7	113.7 / -4.10	Beaverbrook Custom Cabinets 2446 Cawthra Rd Unit 3 Mississauga ON L5A 3K6	SCT

Established: 01-AUG-85
Plant Size (ft²): 7000
Employment:

--Details--
Description: Finish Carpentry Contractors
SIC/NAICS Code: 238350

Description: Wood Kitchen Cabinet and Counter Top Manufacturing
SIC/NAICS Code: 337110

Description: Wood Kitchen Cabinet and Counter Top Manufacturing
SIC/NAICS Code: 337110

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
15	7 of 42	ESE/208.7	113.7 / -4.10	COLOUR DISPLAY COMPANY LIMITED 2446 CAWTHRA RD BLDG 3 UNIT 5-6 MISSISSAUGA ON L5A 3K6	SCT

Established: 1970
Plant Size (ft²): 5500
Employment: 10

--Details--
Description: FABRICATED TEXTILE PRODUCTS, NOT ELSEWHERE CLASSIFIED
SIC/NAICS Code: 2399

Description: SPORTING AND ATHLETIC GOODS, NOT ELSEWHERE CLASSIFIED
SIC/NAICS Code: 3949

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
15	8 of 42	ESE/208.7	113.7 / -4.10	Sunkim Industries Ltd 2446 Cawthra Rd Unit 6 Mississauga ON L5A 3K6	SCT

Established: 01-AUG-74
Plant Size (ft²): 2000
Employment:

--Details--
Description: All Other Miscellaneous Manufacturing
SIC/NAICS Code: 339990

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
15	9 of 42	ESE/208.7	113.7 / -4.10	TRANS MEDIA GRAPHICS LTD. 2446 CAWTHRA RD BLDG 2 UNIT 4 MISSISSAUGA ON L5A 3K6	SCT

Established: 1976
Plant Size (ft²): 5000
Employment: 16

--Details--
Description: COMMERCIAL PRINTING, LITHOGRAPHIC
SIC/NAICS Code: 2752

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Description:		COMMERCIAL PRINTING, NOT ELSEWHERE CLASSIFIED			
SIC/NAICS Code:		2759			
Description:		TYPESETTING			
SIC/NAICS Code:		2791			

15	10 of 42	ESE/208.7	113.7 / -4.10	**Nustef Foods Ltd.** **2446 Cawthra Rd Unit 1** **Mississauga ON L5A 3K6**	SCT

Established:	1986
Plant Size (ft²):	3500
Employment:	
--Details--	
Description:	Cookie and Cracker Manufacturing
SIC/NAICS Code:	311821

15	11 of 42	ESE/208.7	113.7 / -4.10	**SUMMAR FOODS LTD** **2446 CAWTHRA RD BLDG 3 UNIT 7** **MISSISSAUGA ON L5A 3K6**	SCT

Established:	1988
Plant Size (ft²):	10000
Employment:	20
--Details--	
Description:	CHOCOLATE AND COCOA PRODUCTS
SIC/NAICS Code:	2066

15	12 of 42	ESE/208.7	113.7 / -4.10	**E. & A. IMAGE TREND LTD** **2446 CAWTHRA RD BLDG 4 UNIT 8** **MISSISSAUGA ON L5A 3K6**	SCT

Established:	1989
Plant Size (ft²):	2400
Employment:	2
--Details--	
Description:	PLEATING, DECORATIVE AND NOVELTY STITCHING, AND TUCKING FOR THE TRADE
SIC/NAICS Code:	2395

15	13 of 42	ESE/208.7	113.7 / -4.10	**Glenholme Printing Inc** **2446 Cawthra Rd Unit 7** **Mississauga ON L5A 3K6**	SCT

Established:	01-JUN-68
Plant Size (ft²):	5000
Employment:	
--Details--	
Description:	Digital Printing
SIC/NAICS Code:	323115
Description:	Quick Printing

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

SIC/NAICS Code: 323114

Description: Other Printing
SIC/NAICS Code: 323119

Description: Quick Printing
SIC/NAICS Code: 323114

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
15	14 of 42	ESE/208.7	113.7 / -4.10	E. & A. IMAGE TREND LTD. 2446 Cawthra Rd Bldg 4 Unit 8 Mississauga ON L5A 3K6	SCT

Established: 1989
Plant Size (ft²): 2400
Employment: 1

--Details--
Description: All Other Wholesaler-Distributors
SIC/NAICS Code: 418990

Description: All Other Textile Product Mills
SIC/NAICS Code: 314990

Description: Other Printing
SIC/NAICS Code: 323119

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
15	15 of 42	ESE/208.7	113.7 / -4.10	Summar Foods Ltd. 2446 Cawthra Rd Unit 7 Mississauga ON L5A 3K6	SCT

Established: 01-JUN-88
Plant Size (ft²): 10000
Employment:

--Details--
Description: Chocolate and Confectionery Manufacturing from Cacao Beans
SIC/NAICS Code: 311320

Description: Chocolate and Confectionery Manufacturing from Cacao Beans
SIC/NAICS Code: 311320

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
15	16 of 42	ESE/208.7	113.7 / -4.10	Shooting Chrony Inc. 2446 Cawthra Rd Unit 10 Mississauga ON L5A 3K6	SCT

Established: 01-AUG-87
Plant Size (ft²): 3000
Employment:

--Details--
Description: Measuring, Medical and Controlling Devices Manufacturing
SIC/NAICS Code: 334512

Description: Measuring, Medical and Controlling Devices Manufacturing
SIC/NAICS Code: 334512

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
15	17 of 42	ESE/208.7	113.7 / -4.10	Multi-Scales Charge Ltd. 2446 Cawthra Rd Unit 10 Mississauga ON L5A 3K6	SCT

Established: 01-AUG-82
Plant Size (ft²):
Employment:

--Details--
Description: Measuring, Medical and Controlling Devices Manufacturing
SIC/NAICS Code: 334512

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
15	18 of 42	ESE/208.7	113.7 / -4.10	A A MACHINING KEY SEAT & APPL. 2446 Cawthra Rd Bldg 4 Unit 1 Mississauga ON L5A 3K6	SCT

Established: 1991
Plant Size (ft²): 0
Employment: 2

--Details--
Description: Machine Shops
SIC/NAICS Code: 332710

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
15	19 of 42	ESE/208.7	113.7 / -4.10	5 STAR WHOLESALE SMOKED MEAT 2446 Cawthra Rd Bldg 2 Unit 8 Mississauga ON L5A 3K6	SCT

Established: 2000
Plant Size (ft²): 0
Employment: 2

--Details--
Description: Rendering and Meat Processing from Carcasses
SIC/NAICS Code: 311614

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
15	20 of 42	ESE/208.7	113.7 / -4.10	Glenholme Printing Inc. 2446 Cawthra Rd Bldg 4 Unit 7 Mississauga ON L5A 3K6	SCT

Established: 1968
Plant Size (ft²): 5000
Employment: 8

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
15	21 of 42	ESE/208.7	113.7 / -4.10	Sunkim Industries Ltd. 2446 Cawthra Rd Bldg 1 Unit 6 Mississauga ON L5A 3K6	SCT

Established: 1974
Plant Size (ft²): 2000
Employment: 3

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
15	22 of 42	ESE/208.7	113.7 / -4.10	5 Star Wholesale Smoked Meat & Sausages 2446 Cawthra Rd Bldg 2 Unit 8	SCT

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
				Mississauga ON L5A 3K6	

Established: 2000
Plant Size (ft²):
Employment: 2

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15 **23 of 42** **ESE/208.7** **113.7 / -4.10** **Ali Food** **SCT**
2446 Cawthra Rd Unit 6
Mississauga ON L5A 3K6

Established: 1996
Plant Size (ft²): 3500
Employment: 4

--Details--
Description: Flour Milling
SIC/NAICS Code: 311211

Description: Retail Bakeries
SIC/NAICS Code: 311811

Description: Flour Mixes and Dough Manufacturing from Purchased Flour
SIC/NAICS Code: 311822

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15 **24 of 42** **ESE/208.7** **113.7 / -4.10** **CONSOLIDATED SALVAGE CO. LTD.** **GEN**
2446 CAWTHRA RD. BLDG 2, UNIT 2
MISSISSAUGA ON L5A 3K6

Generator No: ON1377300
SIC Code: 6591
SIC Description: 2ND HAND MERCHANDISE
Approval Years: 90
PO Box No:
Country:

Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 232
Waste Class Desc: POLYMERIC RESINS

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15 **25 of 42** **ESE/208.7** **113.7 / -4.10** **CONSOLIDATED SALVAGE CO. LTD. 08-812** **GEN**
2446 CAWTHRA RD. BLDG 2, UNIT 2
MISSISSAUGA ON L5A 3K6

Generator No: ON1377300
SIC Code: 6591
SIC Description: 2ND HAND MERCHANDISE
Approval Years: 92,93,94,95,96,97,98
PO Box No:
Country:

Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 232
Waste Class Desc: POLYMERIC RESINS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
15	26 of 42	ESE/208.7	113.7 / -4.10	Shooting Chrony Inc. 2446 Cawthra Rd. Bldg. 1 Unit 10 Mississauga ON L5A 3K6	GEN

Generator No: ON7109848
SIC Code: 332999
SIC Description: All Other Miscellaneous Fabricated Metal Product Manufacturing
Approval Years: 05,06
PO Box No:
Country:

Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 211
Waste Class Desc: AROMATIC SOLVENTS

Waste Class: 241
Waste Class Desc: HALOGENATED SOLVENTS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
15	27 of 42	ESE/208.7	113.7 / -4.10	CONSOLIDATED SALVAGE CO. LTD 2446 CAWTHRA ROAD BLDG. 3 UNITS # 1 & 2 MISSISSAUGA ON L5A 3K6	GEN

Generator No: ON8349906
SIC Code: 453999
SIC Description: All Other Miscellaneous Store Retailers (except Be
Approval Years: 06,07,08
PO Box No:
Country:

Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
15	28 of 42	ESE/208.7	113.7 / -4.10	Tri-Phase Environmental Inc. 2446 Cawthra Rd. Bldg 2 Mississauga ON L5A 3K6	CA

Certificate #: 3651-5VNTBK
Application Year: 2004
Issue Date: 2/23/2004
Approval Type: Waste Management Systems
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
15	29 of 42	ESE/208.7	113.7 / -4.10	Aloumac Custom Welding Ltd. 2446 Cawthra Rd Unit 10 Mississauga ON L5A 3K6	SCT

Established: 01-AUG-76
Plant Size (ft²): 4650

Employment:

--Details--
Description: Other Plate Work and Fabricated Structural Product Manufacturing
SIC/NAICS Code: 332319

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15 ***30 of 42*** ***ESE/208.7*** ***113.7 / -4.10*** ***CONSOLIDATED SALVAGE CO. LTD*** ***GEN***
2446 CAWTHRA ROAD BLDG. 3 UNITS # 1 & 2
MISSISSAUGA ON L5A 3K6

Generator No: ON8349906
SIC Code: 453999
SIC Description: All Other Miscellaneous Store Retailers (except Beer and Wine-Making Supplies Stores)
Approval Years: 2009
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

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15 ***31 of 42*** ***ESE/208.7*** ***113.7 / -4.10*** ***CONSOLIDATED SALVAGE CO. LTD*** ***GEN***
2446 CAWTHRA ROAD BLDG. 3 UNITS # 1 & 2
MISSISSAUGA ON L5A 3K6

Generator No: ON8349906
SIC Code: 453999
SIC Description: All Other Miscellaneous Store Retailers (except Beer and Wine-Making Supplies Stores)
Approval Years: 2010
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

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15 ***32 of 42*** ***ESE/208.7*** ***113.7 / -4.10*** ***CONSOLIDATED SALVAGE CO. LTD*** ***GEN***
2446 CAWTHRA ROAD BLDG. 3 UNITS # 1 & 2
MISSISSAUGA ON L5A 3K6

Generator No: ON8349906
SIC Code: 453999
SIC Description: All Other Miscellaneous Store Retailers (except Beer and Wine-Making Supplies Stores)
Approval Years: 2011
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
15	33 of 42	ESE/208.7	113.7 / -4.10	CONSOLIDATED SALVAGE CO. LTD 2446 CAWTHRA ROAD BLDG. 3 UNITS # 1 & 2 MISSISSAUGA ON L5A 3K6	GEN

Generator No: ON8349906
SIC Code: 453999
SIC Description: All Other Miscellaneous Store Retailers (except Beer and Wine-Making Supplies Stores)
Approval Years: 2012
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
15	34 of 42	ESE/208.7	113.7 / -4.10	CONSOLIDATED SALVAGE CO. LTD. SALVAGE CO. LTD 2446 CAWTHRA ROAD BLDG. 3 UNITS # 1 & 2 MISSISSAUGA ON	GEN

Generator No: ON8349906
SIC Code: 453999
SIC Description: ALL OTHER MISCELLANEOUS STORE RETAILERS (EXCEPT BEER AND WINE-MAKING SUPPLIES STORES)
Approval Years: 2013
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
15	35 of 42	ESE/208.7	113.7 / -4.10	Tri-Phase Environmental Inc. 2446 Cawthra Rd. Bldg 2 Mississauga ON L5A 4K4	ECA

Approval No: 3651-5VNTBK
Approval Date: 2004-02-23
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name: Credit Valley
Approval Type: ECA-WASTE MANAGEMENT SYSTEMS
Project Type: WASTE MANAGEMENT SYSTEMS
Business Name: Tri-Phase Environmental Inc.
Address: 2446 Cawthra Rd. Bldg 2
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/8401-5AJTFL-14.pdf
PDF Site Location:
MOE District: Halton-Peel
City:
Longitude: -79.59685
Latitude: 43.590828
Geometry X:
Geometry Y:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
15	36 of 42	ESE/208.7	113.7 / -4.10	CONSOLIDATED SALVAGE CO. LTD. SALVAGE CO. LTD 2446 CAWTHRA ROAD BLDG. 3 UNITS # 1 - 5 MISSISSAUGA ON L5A 3K6	GEN

Generator No:	ON8349906	**Status:**	
SIC Code:	453999	**Co Admin:**	Pam R. Rayner Dziuba
SIC Description:	ALL OTHER MISCELLANEOUS STORE RETAILERS (EXCEPT BEER AND WINE-MAKING SUPPLIES STORES)	**Choice of Contact:**	CO_ADMIN
Approval Years:	2016	**Phone No Admin:**	905-276-4230 Ext.
PO Box No:		**Contam. Facility:**	No
Country:	Canada	**MHSW Facility:**	No

Detail(s)

Waste Class:	263
Waste Class Desc:	ORGANIC LABORATORY CHEMICALS
Waste Class:	331
Waste Class Desc:	WASTE COMPRESSED GASES
Waste Class:	145
Waste Class Desc:	PAINT/PIGMENT/COATING RESIDUES
Waste Class:	148
Waste Class Desc:	INORGANIC LABORATORY CHEMICALS

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15 | ***37 of 42*** | ***ESE/208.7*** | ***113.7 / -4.10*** | ***CONSOLIDATED SALVAGE CO. LTD. SALVAGE CO. LTD***
2446 CAWTHRA ROAD BLDG. 3 UNITS # 1 - 5
MISSISSAUGA ON L5A 3K6 | ***GEN***

Generator No:	ON8349906	**Status:**	
SIC Code:	453999	**Co Admin:**	Pam R. Rayner Dziuba
SIC Description:	ALL OTHER MISCELLANEOUS STORE RETAILERS (EXCEPT BEER AND WINE-MAKING SUPPLIES STORES)	**Choice of Contact:**	CO_ADMIN
Approval Years:	2015	**Phone No Admin:**	905-276-4230 Ext.
PO Box No:		**Contam. Facility:**	No
Country:	Canada	**MHSW Facility:**	No

Detail(s)

Waste Class:	263
Waste Class Desc:	ORGANIC LABORATORY CHEMICALS
Waste Class:	148
Waste Class Desc:	INORGANIC LABORATORY CHEMICALS
Waste Class:	145
Waste Class Desc:	PAINT/PIGMENT/COATING RESIDUES
Waste Class:	331
Waste Class Desc:	WASTE COMPRESSED GASES

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15 | ***38 of 42*** | ***ESE/208.7*** | ***113.7 / -4.10*** | ***CONSOLIDATED SALVAGE CO. LTD. SALVAGE CO. LTD***
2446 CAWTHRA ROAD BLDG. 3 UNITS # 1 - 5
MISSISSAUGA ON L5A 3K6 | ***GEN***

Generator No:	ON8349906	**Status:**	
SIC Code:	453999	**Co Admin:**	Pam R. Rayner Dziuba
SIC Description:	ALL OTHER MISCELLANEOUS STORE RETAILERS (EXCEPT BEER AND WINE-MAKING SUPPLIES STORES)	**Choice of Contact:**	CO_ADMIN
Approval Years:	2014	**Phone No Admin:**	905-276-4230 Ext.

PO Box No: | ***Contam. Facility:*** No
Country: Canada | ***MHSW Facility:*** No

Detail(s)

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 145
Waste Class Desc: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

Waste Class: 263
Waste Class Desc: ORGANIC LABORATORY CHEMICALS

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15 | ***39 of 42*** | ***ESE/208.7*** | ***113.7 / -4.10*** | ***CONSOLIDATED SALVAGE CO. LTD. SALVAGE CO. LTD***
2446 CAWTHRA ROAD BLDG. 3 UNITS # 1 - 8
MISSISSAUGA ON L5A 3K6 | ***GEN***

Generator No: ON8349906 | ***Status:*** Registered
SIC Code: | ***Co Admin:***
SIC Description: | ***Choice of Contact:***
Approval Years: As of Dec 2018 | ***Phone No Admin:***
PO Box No: | ***Contam. Facility:***
Country: Canada | ***MHSW Facility:***

Detail(s)

Waste Class: 145 I
Waste Class Desc: Wastes from the use of pigments, coatings and paints

Waste Class: 145 L
Waste Class Desc: Wastes from the use of pigments, coatings and paints

Waste Class: 148 C
Waste Class Desc: Misc. wastes and inorganic chemicals

Waste Class: 148 I
Waste Class Desc: Misc. wastes and inorganic chemicals

Waste Class: 263 I
Waste Class Desc: Misc. waste organic chemicals

Waste Class: 263 L
Waste Class Desc: Misc. waste organic chemicals

Waste Class: 263 T
Waste Class Desc: Misc. waste organic chemicals

Waste Class: 331 I
Waste Class Desc: Waste compressed gases including cylinders

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15 | ***40 of 42*** | ***ESE/208.7*** | ***113.7 / -4.10*** | ***CONSOLIDATED SALVAGE CO. LTD. SALVAGE CO. LTD***
2446 CAWTHRA ROAD BLDG. 3 UNITS # 1 - 8
MISSISSAUGA ON L5A 3K6 | ***GEN***

Generator No: ON8349906 | ***Status:*** Registered
SIC Code: | ***Co Admin:***
SIC Description: | ***Choice of Contact:***

Approval Years:	As of Jul 2020	**Phone No Admin:**	
PO Box No:		**Contam. Facility:**	
Country:	Canada	**MHSW Facility:**	

Detail(s)

Waste Class:	145 I
Waste Class Desc:	Wastes from the use of pigments, coatings and paints
Waste Class:	263 I
Waste Class Desc:	Misc. waste organic chemicals
Waste Class:	263 T
Waste Class Desc:	Misc. waste organic chemicals
Waste Class:	331 I
Waste Class Desc:	Waste compressed gases including cylinders
Waste Class:	148 C
Waste Class Desc:	Misc. wastes and inorganic chemicals
Waste Class:	148 I
Waste Class Desc:	Misc. wastes and inorganic chemicals
Waste Class:	263 L
Waste Class Desc:	Misc. waste organic chemicals
Waste Class:	145 L
Waste Class Desc:	Wastes from the use of pigments, coatings and paints

15	41 of 42	ESE/208.7	113.7 / -4.10	**CONSOLIDATED SALVAGE CO. LTD. SALVAGE CO. LTD** **2446 CAWTHRA ROAD BLDG. 3 UNITS # 1 - 8** **MISSISSAUGA ON L5A 3K6**	GEN

Generator No:	ON8349906	**Status:**	Registered
SIC Code:		**Co Admin:**	
SIC Description:		**Choice of Contact:**	
Approval Years:	As of Nov 2021	**Phone No Admin:**	
PO Box No:		**Contam. Facility:**	
Country:	Canada	**MHSW Facility:**	

Detail(s)

Waste Class:	331 I
Waste Class Desc:	Waste compressed gases including cylinders
Waste Class:	263 L
Waste Class Desc:	Misc. waste organic chemicals
Waste Class:	148 I
Waste Class Desc:	Misc. wastes and inorganic chemicals
Waste Class:	148 C
Waste Class Desc:	Misc. wastes and inorganic chemicals
Waste Class:	263 I
Waste Class Desc:	Misc. waste organic chemicals
Waste Class:	145 I
Waste Class Desc:	Wastes from the use of pigments, coatings and paints
Waste Class:	145 L

Waste Class Desc: Wastes from the use of pigments, coatings and paints

Waste Class: 263 T
Waste Class Desc: Misc. waste organic chemicals

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15 | **42 of 42** | **ESE/208.7** | **113.7 / -4.10** | **2446 Cawthra Road Mississauga ON L5A 3K6** | **EHS**

Order No: 21102101305
Status: C
Report Type: Site Report
Report Date: 26-OCT-21
Date Received: 21-OCT-21
Previous Site Name:
Lot/Building Size:
Additional Info Ordered: Fire Insur. Maps and/or Site Plans; City Directory

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .001
X: -79.5969508
Y: 43.59108873

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16 | **1 of 1** | **S/210.6** | **114.7 / -3.06** | **ON** | **WWIS**

Well ID: 7188911
Construction Date:
Primary Water Use:
Sec. Water Use:
Final Well Status:
Water Type:
Casing Material:
Audit No: C18354
Tag: A123943
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status: Yes
Data Src:
Date Received: 8/23/2012
Selected Flag: TRUE
Abandonment Rec:
Contractor: 6946
Form Version: 8
Owner:
Street Name:
County: PEEL
Municipality: MISSISSAUGA CITY
Site Info:
Lot:
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/718\7188911.pdf

Additional Detail(s) (Map)

Well Completed Date: 2012/07/20
Year Completed: 2012
Depth (m):
Latitude: 43.5902132090926
Longitude: -79.5988724211944
Path: 718\7188911.pdf

Bore Hole Information

Bore Hole ID: 1004198285
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 20-Jul-2012 00:00:00

Elevation:
Elevrc:
Zone: 17
East83: 613105.00
North83: 4827314.00
Org CS: UTM83
UTMRC: 4
UTMRC Desc: margin of error : 30 m - 100 m

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

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

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17 | **1 of 1** | **SSE/214.1** | **114.8 / -2.99** | **2521 Tedlo Street Mississauga ON L5A 4A8** | **EHS**

Order No: 20120703047
Status: C
Report Type: Standard Select Report
Report Date: 12-JUL-12
Date Received: 03-JUL-12
Previous Site Name:
Lot/Building Size:
Additional Info Ordered: Aerial Photos
Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -79.598638
Y: 43.590206

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18 | **1 of 1** | **ESE/219.5** | **113.2 / -4.63** | **2446 Cawthra Road Mississauga ON L5A 3K6** | **EHS**

Order No: 21121400171
Status: C
Report Type: Standard Express Report
Report Date: 14-DEC-21
Date Received: 14-DEC-21
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:
Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -79.5969508
Y: 43.5909178

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19 | **1 of 1** | **SSW/219.6** | **115.9 / -1.84** | **2524 CAWTHRU RD. Mississauga ON** | **WWIS**

Well ID: 7107064
Construction Date:
Primary Water Use: Monitoring
Sec. Water Use:
Final Well Status: Other Status
Water Type:
Casing Material:
Audit No: M01785
Tag: A069711
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:
Data Entry Status:
Data Src:
Date Received: 6/25/2008
Selected Flag: TRUE
Abandonment Rec:
Contractor: 6607
Form Version: 5
Owner:
Street Name: 2524 CAWTHRU RD.
County: PEEL
Municipality: MISSISSAUGA CITY
Site Info:
Lot:
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/710\7107064.pdf

Additional Detail(s) (Map)

Well Completed Date: 2008/05/15

Year Completed: 2008
Depth (m):
Latitude: 43.5898607391399
Longitude: -79.5994999817107
Path: 710\7107064.pdf

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/710\7107064.pdf

Additional Detail(s) (Map)

Well Completed Date: 2008/05/15
Year Completed: 2008
Depth (m): 4.5
Latitude: 43.5361798307895
Longitude: -79.6010773683683
Path: 710\7107064.pdf

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/710\7107064.pdf

Additional Detail(s) (Map)

Well Completed Date: 2008/05/16
Year Completed: 2008
Depth (m):
Latitude: 43.5901888882624
Longitude: -79.5998268397604
Path: 710\7107064.pdf

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/710\7107064.pdf

Additional Detail(s) (Map)

Well Completed Date: 2008/05/15
Year Completed: 2008
Depth (m):
Latitude: 43.5898042522995
Longitude: -79.6000339601987
Path: 710\7107064.pdf

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/710\7107064.pdf

Additional Detail(s) (Map)

Well Completed Date: 2008/05/15
Year Completed: 2008
Depth (m):
Latitude: 43.5903192068064
Longitude: -79.5994397980563
Path: 710\7107064.pdf

Bore Hole Information

Bore Hole ID: 1002712179
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind: This is a record from cluster log sheet
Date Completed: 15-May-2008 00:00:00
Remarks:
Elevrc Desc:

Elevation:
Elevrc:
Zone: 17
East83: 613055.00
North83: 4827274.00
Org CS: UTM83
UTMRC: 3
UTMRC Desc: margin of error : 10 - 30 m
Location Method: wwr

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

Annular Space/Abandonment Sealing Record

Plug ID: 1002712183
Layer:
Plug From:
Plug To:
Plug Depth UOM:

Method of Construction & Well Use

Method Construction ID: 1002712182
Method Construction Code:
Method Construction:
Other Method Construction: BORING

Pipe Information

Pipe ID: 1002712184
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1002712186
Layer:
Material: 5
Open Hole or Material: PLASTIC
Depth From:
Depth To: 1.5
Casing Diameter:
Casing Diameter UOM:
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1002712185
Layer:
Slot:
Screen Top Depth: 1.5
Screen End Depth: 4.5
Screen Material:
Screen Depth UOM: m
Screen Diameter UOM:
Screen Diameter:

Results of Well Yield Testing

Pump Test ID: 1002712187
Pump Set At:
Static Level:
Final Level After Pumping:
Recommended Pump Depth:

Pumping Rate:
Flowing Rate:
Recommended Pump Rate:
Levels UOM:
Rate UOM:
Water State After Test Code:
Water State After Test:
Pumping Test Method:
Pumping Duration HR:
Pumping Duration MIN:
Flowing:

Hole Diameter

Hole ID: 1002712181
Diameter: 15.0
Depth From:
Depth To: 4.5
Hole Depth UOM: m
Hole Diameter UOM: cm

Bore Hole Information

Bore Hole ID: 1001627724
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole: No
Cluster Kind:
Date Completed: 15-May-2008 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83: 613028.00
North83: 4821310.00
Org CS: UTM83
UTMRC: 3
UTMRC Desc: margin of error : 10 - 30 m
Location Method: wwr

Overburden and Bedrock Materials Interval

Formation ID: 1002712216
Layer: 1
Color: 6
General Color: BROWN
Mat1: 01
Most Common Material: FILL
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 0.8999999761581421
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1002712217
Layer: 2
Color: 6

General Color:	BROWN
Mat1:	05
Most Common Material:	CLAY
Mat2:	06
Mat2 Desc:	SILT
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.8999999761581421
Formation End Depth:	3.0
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1002712218
Layer:	3
Color:	1
General Color:	WHITE
Mat1:	17
Most Common Material:	SHALE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	3.0
Formation End Depth:	4.5
Formation End Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1002712220
Layer:	1
Plug From:	0.0
Plug To:	1.5
Plug Depth UOM:	m

Method of Construction & Well Use

Method Construction ID:	1002712225
Method Construction Code:	6
Method Construction:	Boring
Other Method Construction:	

Pipe Information

Pipe ID:	1002712215
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1002712222
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	0.0
Depth To:	
Casing Diameter:	5.099999904632568
Casing Diameter UOM:	cm

Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1002712223
Layer: 1
Slot: 20
Screen Top Depth:
Screen End Depth:
Screen Material: 5
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter: 6.400000095367432

Water Details

Water ID: 1002712221
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 3.0
Water Found Depth UOM: m

Hole Diameter

Hole ID: 1002712219
Diameter: 15.0
Depth From: 0.0
Depth To: 4.5
Hole Depth UOM: m
Hole Diameter UOM: cm

Bore Hole Information

Bore Hole ID: 1002712206
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind: This is a record from cluster log sheet
Date Completed: 16-May-2008 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83: 613028.00
North83: 4827310.00
Org CS: UTM83
UTMRC: 3
UTMRC Desc: margin of error : 10 - 30 m
Location Method: wwr

Annular Space/Abandonment Sealing Record

Plug ID: 1002712210
Layer:
Plug From:
Plug To:
Plug Depth UOM:

Method of Construction & Well Use

Method Construction ID: 1002712209
Method Construction Code:
Method Construction:
Other Method Construction: BORING

Pipe Information

Pipe ID: 1002712211
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1002712213
Layer:
Material: 5
Open Hole or Material: PLASTIC
Depth From:
Depth To: 1.5
Casing Diameter:
Casing Diameter UOM:
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1002712212
Layer:
Slot:
Screen Top Depth: 1.5
Screen End Depth: 4.5
Screen Material:
Screen Depth UOM: m
Screen Diameter UOM:
Screen Diameter:

Results of Well Yield Testing

Pump Test ID: 1002712214
Pump Set At:
Static Level:
Final Level After Pumping:
Recommended Pump Depth:
Pumping Rate:
Flowing Rate:
Recommended Pump Rate:
Levels UOM:
Rate UOM:
Water State After Test Code:
Water State After Test:
Pumping Test Method:
Pumping Duration HR:
Pumping Duration MIN:
Flowing:

Hole Diameter

Hole ID: 1002712208
Diameter: 15.0
Depth From:
Depth To: 4.5

Hole Depth UOM: m
Hole Diameter UOM: cm

Bore Hole Information

Bore Hole ID:	1002712197	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	613012.00
Code OB Desc:		***North83:***	4827267.00
Open Hole:		***Org CS:***	UTM83
Cluster Kind:	This is a record from cluster log sheet	***UTMRC:***	3
Date Completed:	15-May-2008 00:00:00	***UTMRC Desc:***	margin of error : 10 - 30 m
Remarks:		***Location Method:***	wwr

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

Annular Space/Abandonment Sealing Record

Plug ID: 1002712201
Layer:
Plug From:
Plug To:
Plug Depth UOM:

Method of Construction & Well Use

Method Construction ID: 1002712200
Method Construction Code:
Method Construction:
Other Method Construction: BORING

Pipe Information

Pipe ID: 1002712202
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1002712204
Layer:
Material: 5
Open Hole or Material: PLASTIC
Depth From:
Depth To: 1.5
Casing Diameter:
Casing Diameter UOM:
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1002712203
Layer:

Slot:
Screen Top Depth: 1.5
Screen End Depth: 4.5
Screen Material:
Screen Depth UOM: m
Screen Diameter UOM:
Screen Diameter:

Results of Well Yield Testing

Pump Test ID: 1002712205
Pump Set At:
Static Level:
Final Level After Pumping:
Recommended Pump Depth:
Pumping Rate:
Flowing Rate:
Recommended Pump Rate:
Levels UOM:
Rate UOM:
Water State After Test Code:
Water State After Test:
Pumping Test Method:
Pumping Duration HR:
Pumping Duration MIN:
Flowing:

Hole Diameter

Hole ID: 1002712199
Diameter: 15.0
Depth From:
Depth To: 4.5
Hole Depth UOM: m
Hole Diameter UOM: cm

Bore Hole Information

Bore Hole ID: 1002712188
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind: This is a record from cluster log sheet
Date Completed: 15-May-2008 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:
Elevation:
Elevrc:
Zone: 17
East83: 613059.00
North83: 4827325.00
Org CS: UTM83
UTMRC: 3
UTMRC Desc: margin of error : 10 - 30 m
Location Method: wwr

Annular Space/Abandonment Sealing Record

Plug ID: 1002712192
Layer:
Plug From:
Plug To:
Plug Depth UOM:

Method of Construction & Well Use

Method Construction ID:	1002712191
Method Construction Code:	
Method Construction:	
Other Method Construction:	BORING

Pipe Information

Pipe ID:	1002712193
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1002712195
Layer:	
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	
Depth To:	1.5
Casing Diameter:	
Casing Diameter UOM:	
Casing Depth UOM:	m

Construction Record - Screen

Screen ID:	1002712194
Layer:	
Slot:	
Screen Top Depth:	1.5
Screen End Depth:	4.5
Screen Material:	
Screen Depth UOM:	m
Screen Diameter UOM:	
Screen Diameter:	

Results of Well Yield Testing

Pump Test ID:	1002712196
Pump Set At:	
Static Level:	
Final Level After Pumping:	
Recommended Pump Depth:	
Pumping Rate:	
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	
Rate UOM:	
Water State After Test Code:	
Water State After Test:	
Pumping Test Method:	
Pumping Duration HR:	
Pumping Duration MIN:	
Flowing:	

Hole Diameter

Hole ID: 1002712190
Diameter: 15.0
Depth From:
Depth To: 4.5
Hole Depth UOM: m
Hole Diameter UOM: cm

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20 | **1 of 1** | **S/234.3** | **114.8 / -2.97** | **2460 TEDLO ST Mississauga ON** | **WWIS**

Well ID: 7281880
Construction Date:
Primary Water Use: Test Hole
Sec. Water Use: Monitoring
Final Well Status: Monitoring and Test Hole
Water Type:
Casing Material:
Audit No: Z253345
Tag: A185753
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src:
Date Received: 2/24/2017
Selected Flag: TRUE
Abandonment Rec:
Contractor: 7241
Form Version: 7
Owner:
Street Name: 2460 TEDLO ST
County: PEEL
Municipality: MISSISSAUGA CITY
Site Info:
Lot:
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map):

Additional Detail(s) (Map)

Well Completed Date: 2017/01/26
Year Completed: 2017
Depth (m): 5.4864
Latitude: 43.5899906012615
Longitude: -79.5990757889831
Path:

Bore Hole Information

Bore Hole ID: 1006358711
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 26-Jan-2017 00:00:00
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83: 613089.00
North83: 4827289.00
Org CS: UTM83
UTMRC: 4
UTMRC Desc: margin of error : 30 m - 100 m
Location Method: wwr

Overburden and Bedrock Materials Interval

Formation ID: 1006603681
Layer: 3
Color: 6
General Color: BROWN
Mat1: 06
Most Common Material: SILT
Mat2: 28
Mat2 Desc: SAND
Mat3:
Mat3 Desc:
Formation Top Depth: 4.0
Formation End Depth: 6.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1006603680
Layer: 2
Color: 6
General Color: BROWN
Mat1: 28
Most Common Material: SAND
Mat2: 11
Mat2 Desc: GRAVEL
Mat3: 66
Mat3 Desc: DENSE
Formation Top Depth: 3.0
Formation End Depth: 4.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1006603682
Layer: 4
Color: 2
General Color: GREY
Mat1: 17
Most Common Material: SHALE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 6.0
Formation End Depth: 18.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1006603679
Layer: 1
Color: 8
General Color: BLACK
Mat1:
Most Common Material:
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0

Formation End Depth: 3.0
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1006603690
Layer: 1
Plug From: 0.0
Plug To: 6.0
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1006603691
Layer: 2
Plug From: 6.0
Plug To: 7.0
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1006603692
Layer: 3
Plug From: 7.0
Plug To: 18.0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 1006603689
Method Construction Code: 2
Method Construction: Rotary (Convent.)
Other Method Construction: DIRECT PUSH

Pipe Information

Pipe ID: 1006603678
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1006603685
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0.0
Depth To: 8.0
Casing Diameter: 2.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 1006603686

Layer:	1
Slot:	10
Screen Top Depth:	8.0
Screen End Depth:	18.0
Screen Material:	5
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	2.25

Water Details

Water ID:	1006603684
Layer:	
Kind Code:	
Kind:	
Water Found Depth:	
Water Found Depth UOM:	ft

Hole Diameter

Hole ID:	1006603683
Diameter:	6.0
Depth From:	0.0
Depth To:	18.0
Hole Depth UOM:	ft
Hole Diameter UOM:	inch

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21 | ***1 of 1*** | ***NW/244.5*** | ***122.2 / 4.40*** | ***Impro Construction Services<UNOFFICIAL>*** ***On Cawthra Road at Dundas St E, underneath CN bridge*** ***Mississauga ON*** | ***SPL***

Ref No:	5327-BRMLVQ	**Discharger Report:**	
Site No:	NA	**Material Group:**	
Incident Dt:	2020/07/18	**Health/Env Conseq:**	2 - Minor Environment
Year:		**Client Type:**	
Incident Cause:		**Sector Type:**	Miscellaneous Industrial
Incident Event:	Leak/Break	**Agency Involved:**	
Contaminant Code:	15	**Nearest Watercourse:**	
Contaminant Name:	HYDRAULIC OIL	**Site Address:**	On Cawthra Road at Dundas St E, underneath CN bridge
Contaminant Limit 1:		**Site District Office:**	Halton-Peel
Contam Limit Freq 1:		**Site Postal Code:**	
Contaminant UN No 1:	n/a	**Site Region:**	Central
Environment Impact:		**Site Municipality:**	Mississauga
Nature of Impact:		**Site Lot:**	
Receiving Medium:		**Site Conc:**	
Receiving Env:	Land	**Northing:**	4827703
MOE Response:	No	**Easting:**	612915
Dt MOE Arvl on Scn:		**Site Geo Ref Accu:**	
MOE Reported Dt:	2020/07/18	**Site Map Datum:**	
Dt Document Closed:	2020/07/29	**SAC Action Class:**	Land Spills
Incident Reason:	Equipment Failure	**Source Type:**	Truck - Transport/Hauling
Site Name:	Accident site<UNOFFICIAL>		
Site County/District:	Regional Municipality of Peel		
Site Geo Ref Meth:			
Incident Summary:	Impro Const: ~ 100 L hydraulic oil to roadway, cb, cntd & clng		
Contaminant Qty:	100 L		

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22 | ***1 of 1*** | ***WSW/244.7*** | ***119.0 / 1.19*** | ***SKYLINE COMMERCIAL MANAGEMENT INC.*** ***2565 TEDLO STREET*** | ***GEN***

MISSISSAUGA ON L5A 1Y1

Generator No:	ON7021839	***Status:***	Registered
SIC Code:		***Co Admin:***	
SIC Description:		***Choice of Contact:***	
Approval Years:	As of Dec 2017	***Phone No Admin:***	
PO Box No:		***Contam. Facility:***	
Country:	Canada	***MHSW Facility:***	

Detail(s)

Waste Class:	150 L
Waste Class Desc:	Inert organic wastes

Unplottable Summary

Total: 70 Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
CA	JANELAND DEV. INC.- PT. LOT 33, CONC. 2	SOUTH OF DUNDAS ST.	MISSISSAUGA CITY ON	
CA	R.M. OF PEEL	CAWTHRA RD.	MISSISSAUGA CITY ON	
CA	The Regional Municipality of Peel	Cawthra Road	Mississauga ON	
CA	Terano Properties Inc.	Lots 8, 9, and Part of Lot 10, Reg. Plan 334	Mississauga ON	
CA	Firas Hikmat E Al-Jazrawi	Part of Lot 3, Range 2, South of Dundas Street	Mississauga ON	
CA	Hindu Maha Sabha (Mississauga)	Lot 11, Concession 1 South of Dundas Street	Mississauga ON	
CA	Cactus Gate and Crimson King Circle	Part of Lot 11 and 12	Mississauga ON	
CA	Eastgate & Dixie District Station	Part of Lot 6, Concession 2, Dundas St. N.	MISSISSAUGA ON	
CA	Central Parkway Gate Station	Part Lot 13, Conc. 2, N. Dundas Street	Mississauga ON	
CA	Along Erin Mills Parkway	Part of Lot 32, Concession 2, North of Dundas St.	Mississauga ON	
CA		Dundas Street	Mississauga ON	
CA	Silver Birch Trail Sewage Pumping Station	Concession 3, South of Dundas Street	Mississauga ON	
CA		Dundas Street	Mississauga ON	
CA		Part of Lot 31, Conc. 1 South of Dundas St.	Mississauga ON	
CA		Part of Lot 31, Conc. 1 South of Dundas St.	Mississauga ON	
CA		Pt Lot 14, Reg. Plan 393 & Pt Lot 8 Racey Tract, Rge 1 S of Dundas St	Mississauga ON	
CA	Derry Meadows, Phase 1	Part of Lot 11 & 12	Mississauga ON	
CA	Derry Meadows, Phase 1	Part of Lot 11 & 12	Mississauga ON	

CA	Derry Meadows, Phase 1	Part of Lot 11 & 12	Mississauga ON	
CA	Elias Subdivision	Part Lot 14, Concession 2, North of Dundas Street	Mississauga ON	
CA	Elias Subdivision	Part Lot 14, Concession 2, North of Dundas Street	Mississauga ON	
CA	ONTARIO HYDRO, TOMKEN T. S.	LOTS 7-10/C-2, N. DUNDAS ST.	MISSISSAUGA CITY ON	
CA	RICHARD OCHSHORN C/O DUNTOM HOLDINGS INC	COMM. DEVELOP. DUNDAS ST. E.	MISSISSAUGA CITY ON	
CA	R.M. OF PEEL	CAWTHRA RD.	MISSISSAUGA CITY ON	
CA	JORDAN ENTERPRISES INC.	DUNDAS STREET EAST	MISSISSAUGA CITY ON	
CA	Tri-Phase Environmental Inc.	Mobile Facility	Mississauga ON	
CA	RICHARD OCHSHORN C/O DUNTOM HOLDINGS INC	COMM. DEVELOP. DUNDAS ST. E.	MISSISSAUGA CITY ON	
EBR	Lafarge Canada Inc.	Mobile Facility Mississauga, Regional Municipality of Peel CITY OF MISSISSAUGA	ON	
EBR	Lafarge Canada Inc.	Mobile Mississauga, Regional Municipality Of Peel CITY OF MISSISSAUGA	ON	
EBR	Lafarge Canada Inc.	Mobile Facility Mississauga, Regional Municipality of Peel CITY OF MISSISSAUGA	ON	
EBR	Tri-Phase Environmental Inc.	Mobile Facility Mississauga, Regional Municipality of Peel CITY OF MISSISSAUGA	ON	
EBR	Petro-Canada Products	Lot 32/conc.3, Dundas St. s. CITY OF MISSISSAUGA	ON	
EBR	1068342 Ontario Limited	Lot 11, Concession 1 CITY OF MISSISSAUGA	ON	
EBR	Lafarge Canada Inc.	Portable Facility Mississauga Regional Municipality of Peel CITY OF MISSISSAUGA	ON	
EBR	Lafarge Canada Inc.	Mobile Facility CITY OF MISSISSAUGA	ON	
EBR	Lafarge Canada Inc.	Mobile Facility Mississauga, Regional Municipality of Peel CITY OF MISSISSAUGA	ON	
EBR	Lafarge Canada Inc.	Mobile Facility Mississauga, Regional Municipality of Peel CITY OF MISSISSAUGA	ON	
ECA	Lafarge Canada Inc.	Mobile Facility	Mississauga ON	L4V 1S7
ECA	Lafarge Canada Inc.	Portable Facility	Mississauga ON	L4V 1S7
ECA	Lafarge Canada Inc.	Mobile Facility	Mississauga ON	L4V 1S7

ECA	Lafarge Canada Inc.	Mobile Facility	Mississauga ON	L4V 1S7
ECA	The Regional Municipality of Peel	Cawthra Rd (From Bloor Street to Dundas Street)	Mississauga ON	L6T 4B9
ECA	Lafarge Canada Inc.	Portable Facility	Mississauga ON	L4V 1S7
ECA	Lafarge Canada Inc.	Mobile Facility	Mississauga ON	L4V 1S7
ECA	Tri-Phase Environmental Inc.	Mobile Facility	Mississauga ON	L5J 2Z7
ECA	Lafarge Canada Inc.	Mobile Facility	Mississauga ON	L4V 1S7
ECA	Terano Properties Inc.	Lots 8 9 and Part of Lot 10 Reg. Plan 334	Mississauga ON	L4L 8G7
ECA	Terano Properties Inc.	Lots 8 9 and Part of Lot 10 Reg. Plan 334	Mississauga ON	L4L 8G7
ECA	Lafarge Canada Inc.	Mobile Facility	Mississauga ON	L4V 1S7
ECA	Lafarge Canada Inc.	Mobile Facility	Mississauga ON	L4V 1S7
ECA	Lafarge Canada Inc.	Mobile Facility	Mississauga ON	L4V 1S7
ECA	Lafarge Canada Inc.	Mobile Facility	Mississauga ON	L4V 1S7
ECA	Lafarge Canada Inc.	Mobile Facility	Mississauga ON	L4V 1S7
GEN	Trans-Northern Pipelines Inc.	Lot 31, Concession 2, South of Dundas St	Mississauga ON	L5J 2Z2
GEN	Trans Northern Pipelines Inc.	Lot 14, Concession 1 South of Dundas Street	Mississauga ON	L5A2J9
GEN	Enbridge Gas Distribution Inc.	Part of Lot 35, Conc. 1, South of Dundas St. E side of Winston Churchill, N of Sheridan Park Dr	Mississauga ON	
GEN	Trans Northern Pipelines Inc.	Lot 31, Plan 727, Lot 17, Plan 537 S of Dundas St	Mississauga ON	L4Y 1W3
GEN	Trans Northern Pipelines Inc.	Lot 32, Concession 2, South Of Dundas St	Mississauga ON	L5J 0B3
GEN	Trans Northern Pipelines Inc.	Lot 10, Concession 1, South of Dundas Street	Mississauga ON	L4Y 5C5
PTTW	Derrydale Golf Course Ltd.	Lot 11, Concession 1 Mississauga	ON	
SPL		Cawthra Road on ramp for westbound QEW	Mississauga ON	
SPL		Cawthra Rd south of Burnhamthorpe	Mississauga ON	
SPL		East of Dundas Street	Mississauga ON	

WDS		NORTH OF DUNDAS ST.	MISSISSAUGA ON	
WDS		NORTH OF DUNDAS ST.	MISSISSAUGA ON	
WDS		NORTH OF DUNDAS ST.	MISSISSAUGA ON	
WDS	JANNOCK LIMITED	NORTH OF DUNDAS ST.	MISSISSAUGA ON	
WDS	Tri-Phase Environmental Inc.	Mobile Facility	Mississauga ON	L5J 2Z7
WDS		NORTH OF DUNDAS ST.	MISSISSAUGA ON	
WDS	JANNOCK LIMITED	NORTH OF DUNDAS ST.	MISSISSAUGA ON	

Unplottable Report

Site: ***JANELAND DEV. INC.- PT. LOT 33, CONC. 2***
SOUTH OF DUNDAS ST. MISSISSAUGA CITY ON

Database: ***CA***

Certificate #:	3-1973-90-
Application Year:	90
Issue Date:	11/7/1990
Approval Type:	Municipal sewage
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***R.M. OF PEEL***
CAWTHRA RD. MISSISSAUGA CITY ON

Database: ***CA***

Certificate #:	3-0880-86-
Application Year:	86
Issue Date:	7/10/1986
Approval Type:	Municipal sewage
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***The Regional Municipality of Peel***
Cawthra Road Mississauga ON

Database: ***CA***

Certificate #:	8941-5FVQSM
Application Year:	2002
Issue Date:	11/15/2002
Approval Type:	Municipal and Private Sewage Works
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Site: ***Terano Properties Inc.***
Lots 8, 9, and Part of Lot 10, Reg. Plan 334 Mississauga ON

Database: ***CA***

Certificate #:	7549-5SHNF6
Application Year:	2003

Issue Date: 10/21/2003
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Firas Hikmat E Al-Jazrawi***
Part of Lot 3, Range 2, South of Dundas Street Mississauga ON

Database: ***CA***

Certificate #: 7216-7HARDE
Application Year: 2008
Issue Date: 8/8/2008
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Hindu Maha Sabha (Mississauga)***
Lot 11, Concession 1 South of Dundas Street Mississauga ON

Database: ***CA***

Certificate #: 6482-5F6GUT
Application Year: 2002
Issue Date: 10/24/2002
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Cactus Gate and Crimson King Circle***
Part of Lot 11 and 12 Mississauga ON

Database: ***CA***

Certificate #: 1454-575LU4
Application Year: 02
Issue Date: 2/13/02
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name: Pepperglen Estates Inc.
Client Address: 40 Sheppard Avenue West, Suite 700
Client City: Toronto
Client Postal Code: M2N 6K9
Project Description: This application is for approval to install sanitary and storm sewers and foundation collectors on Cactus Gate and King Circle
Contaminants:
Emission Control:

Site: ***Eastgate & Dixie District Station***
Part of Lot 6, Concession 2, Dundas St. N. MISSISSAUGA ON

Database: ***CA***

Certificate #:	8861-4FUP8S
Application Year:	00
Issue Date:	2/23/00
Approval Type:	Industrial air
Status:	Approved
Application Type:	New Certificate of Approval
Client Name:	Enbridge Consumers Gas
Client Address:	500 Consumers Road
Client City:	NORTH YORK
Client Postal Code:	M2J 1P8
Project Description:	This application is for the installation of one emergency generator and one boiler, both fired by natural gas.
Contaminants:	
Emission Control:	

Site: ***Central Parkway Gate Station***
Part Lot 13, Conc. 2, N. Dundas Street Mississauga ON

Database: ***CA***

Certificate #:	3842-4FQT56
Application Year:	00
Issue Date:	1/21/00
Approval Type:	Industrial air
Status:	Approved
Application Type:	New Certificate of Approval
Client Name:	Enbridge Consumers Gas
Client Address:	500 Consumers Road
Client City:	North York
Client Postal Code:	M2J 1P8
Project Description:	Installation of an emergency generator and a natural gas fired boiler
Contaminants:	
Emission Control:	

Site: ***Along Erin Mills Parkway***
Part of Lot 32, Concession 2, North of Dundas St. Mississauga ON

Database: ***CA***

Certificate #:	7643-54JJNG
Application Year:	01
Issue Date:	11/16/01
Approval Type:	Municipal & Private water
Status:	Approved
Application Type:	New Certificate of Approval
Client Name:	The Corporation of the Regional Municipality of Peel
Client Address:	10 Peel Centre Drive, Fourth Floor
Client City:	Brampton
Client Postal Code:	L6T 4B9
Project Description:	Watermain construction
Contaminants:	
Emission Control:	

Site:
Dundas Street Mississauga ON

Database: ***CA***

Certificate #:	6626-4LYMZ6
Application Year:	00
Issue Date:	7/7/00
Approval Type:	Municipal & Private sewage
Status:	Approved
Application Type:	New Certificate of Approval
Client Name:	Corporation of the Regional Municipality of Peel
Client Address:	10 Peel Centre Drive
Client City:	Brampton
Client Postal Code:	L6T 4B9

Project Description: Construction of a sanitary sewer on Dundas Street.
Contaminants:
Emission Control:

Site: ***Silver Birch Trail Sewage Pumping Station***
Concession 3, South of Dundas Street Mississauga ON

Database: ***CA***

Certificate #: 7003-4LKNQE
Application Year: 00
Issue Date: 6/23/00
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name: Corporation of the Regional Municipality of Peel
Client Address: 10 Peel Centre Drive
Client City: Brampton
Client Postal Code: L6T 4B9
Project Description: Upgrade of Sewage Pumping Station
Contaminants:
Emission Control:

Site:
Dundas Street Mississauga ON

Database: ***CA***

Certificate #: 0230-4LYLE7
Application Year: 00
Issue Date: 7/7/00
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name: Corporation of the City of Mississauga
Client Address: 3185 Mavis Road
Client City: Mississauga
Client Postal Code: L5C 1T7
Project Description: Construction of storm sewers on Dundas Street.
Contaminants:
Emission Control:

Site:
Part of Lot 31, Conc. 1 South of Dundas St. Mississauga ON

Database: ***CA***

Certificate #: 4360-4KDLZC
Application Year: 00
Issue Date: 5/17/00
Approval Type: Municipal & Private water
Status: Approved
Application Type: New Certificate of Approval
Client Name: Delpark Homes Ltd.
Client Address: 4000 Steeles Ave. West, Suite 204
Client City: Woodbridge
Client Postal Code: L4L 4V9
Project Description: Watermains to be constructed
Contaminants:
Emission Control:

Site:
Part of Lot 31, Conc. 1 South of Dundas St. Mississauga ON

Database: ***CA***

Certificate #: 0851-4KDNAF
Application Year: 00
Issue Date: 5/17/00
Approval Type: Municipal & Private sewage
Status: Approved

Application Type: New Certificate of Approval
Client Name: Delpark Homes Ltd.
Client Address: 4000 Steeles Ave. West, Suite 204
Client City: Woodbridge
Client Postal Code: L4L 4V9
Project Description: Storm and sanitary sewers to be constructed.
Contaminants:
Emission Control:

Site: ***Database:*** ***CA***
Pt Lot 14, Reg. Plan 393 & Pt Lot 8 Racey Tract, Rge 1 S of Dundas St Mississauga ON

Certificate #: 4844-4Q2PJ9
Application Year: 00
Issue Date: 10/13/00
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name: 1128 Dundas West Ltd.
Client Address: 111 Ortona Court
Client City: Vaughan
Client Postal Code: L4K 3M3
Project Description: Construction of storm sewers on Sharon Crescent, and on two Easements.
Contaminants:
Emission Control:

Site: ***Derry Meadows, Phase 1*** ***Database:*** ***CA***
Part of Lot 11 & 12 Mississauga ON

Certificate #: 7132-4RKRK4
Application Year: 00
Issue Date: 12/1/00
Approval Type: Municipal & Private water
Status: Approved
Application Type: New Certificate of Approval
Client Name: Durbanpoint Developments Ltd.
Client Address: Royalpark Way, Suite 65, Woodbridge
Client City: Vaughan
Client Postal Code: L4H 1J5
Project Description: Watermains to be constructed in the City of Mississauga.
Contaminants:
Emission Control:

Site: ***Derry Meadows, Phase 1*** ***Database:*** ***CA***
Part of Lot 11 & 12 Mississauga ON

Certificate #: 0681-4RKR8W
Application Year: 00
Issue Date: 12/1/00
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name: Durbanpoint Developments Ltd.
Client Address: Royalpark Way, Suite 65, Woodbridge
Client City: Vaughan
Client Postal Code: L4H 1J5
Project Description: Storm, sanitary and FDC sewers to be constructed in the City of Mississauga.
Contaminants:
Emission Control:

Site: ***Derry Meadows, Phase 1*** ***Database:*** ***CA***
Part of Lot 11 & 12 Mississauga ON

Certificate #: 0772-4WENAL
Application Year: 01
Issue Date: 5/11/01
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name: Durbanpoint Developments Ltd.
Client Address: Royalpark Way, Suite 65, Woodbridge
Client City: Vaughan
Client Postal Code: L4H 1J5
Project Description: Sanitary and storm sewers, and foundation drain collectors to be constructed on Tenth Line West, Cactus Gate, Watergrove Road and Lowville Heights
Contaminants:
Emission Control:

Site: ***Elias Subdivision***
Part Lot 14, Concession 2, North of Dundas Street Mississauga ON

Database: ***CA***

Certificate #: 1063-4WELMJ
Application Year: 01
Issue Date: 5/14/01
Approval Type: Municipal & Private water
Status: Approved
Application Type: New Certificate of Approval
Client Name: Woodhaven Investments (1996) Incorporated
Client Address: 1 Eva Road, Suite 412
Client City: Toronto
Client Postal Code:
Project Description: Installation of Watermains at Elias Subdivision
Contaminants:
Emission Control:

Site: ***Elias Subdivision***
Part Lot 14, Concession 2, North of Dundas Street Mississauga ON

Database: ***CA***

Certificate #: 8114-4WEL4J
Application Year: 01
Issue Date: 5/14/01
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name: Woodhaven Investments (1996) Incorporated
Client Address: 1 Eva Road, Suite 412
Client City: Toronto
Client Postal Code:
Project Description: Installation of Sanitary and Storm Sewers at Elias Subdivision
Contaminants:
Emission Control:

Site: ***ONTARIO HYDRO, TOMKEN T.S.***
LOTS 7-10/C-2, N. DUNDAS ST. MISSISSAUGA CITY ON

Database: ***CA***

Certificate #: 4-0113-95-006
Application Year: 95
Issue Date: 10/24/95
Approval Type: Industrial wastewater
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description: SPILL CONT. FOR TRANSFORMERS 3T3 & 3T4
Contaminants:
Emission Control:

Site: ***RICHARD OCHSHORN C/O DUNTOM HOLDINGS INC***
COMM. DEVELOP. DUNDAS ST. E. MISSISSAUGA CITY ON

Database: ***CA***

Certificate #: 7-1319-89-
Application Year: 89
Issue Date: 8/14/1989
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***R.M. OF PEEL***
CAWTHRA RD. MISSISSAUGA CITY ON

Database: ***CA***

Certificate #: 7-0704-86-
Application Year: 86
Issue Date: 7/10/1986
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***JORDAN ENTERPRISES INC.***
DUNDAS STREET EAST MISSISSAUGA CITY ON

Database: ***CA***

Certificate #: 7-0114-87-
Application Year: 87
Issue Date: 2/24/1987
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Tri-Phase Environmental Inc.***
Mobile Facility Mississauga ON

Database: ***CA***

Certificate #: 0901-8LQQ2K
Application Year: 2011
Issue Date: 10/26/2011
Approval Type: Air
Status: Approved
Application Type:
Client Name:
Client Address:

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

Site: ***RICHARD OCHSHORN C/O DUNTOM HOLDINGS INC***
COMM. DEVELOP. DUNDAS ST. E. MISSISSAUGA CITY ON

Database: ***CA***

Certificate #: 3-1587-89-
Application Year: 89
Issue Date: 8/14/1989
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Lafarge Canada Inc.***
Mobile Facility Mississauga, Regional Municipality of Peel CITY OF MISSISSAUGA ON

Database: ***EBR***

EBR Registry No: 012-1229
Ministry Ref No: 4414-9FVPMZ
Notice Type: Instrument Decision
Notice Stage:
Notice Date: March 22, 2017
Proposal Date: March 10, 2014
Year: 2014
Decision Posted:
Exception Posted:
Section:
Act 1:
Act 2:
Site Location Map:
Instrument Type: (EPA Part II.1-air) - Environmental Compliance Approval (project type: air)
Off Instrument Name:
Posted By:
Company Name: Lafarge Canada Inc.
Site Address:
Location Other:
Proponent Name:
Proponent Address: 6509 Airport Road, Mississauga Ontario, Canada L4V 1S7
Comment Period:
URL:

Site Location Details:

Mobile Facility Mississauga, Regional Municipality of Peel CITY OF MISSISSAUGA

Site: ***Lafarge Canada Inc.***
Mobile Mississauga, Regional Municipality Of Peel CITY OF MISSISSAUGA ON

Database: ***EBR***

EBR Registry No: 012-1090
Ministry Ref No: 3068-9FFKME
Notice Type: Instrument Decision
Notice Stage:
Notice Date: March 06, 2017
Proposal Date: February 14, 2014
Year: 2014
Decision Posted:
Exception Posted:
Section:
Act 1:
Act 2:
Site Location Map:
Instrument Type: (EPA Part II.1-air) - Environmental Compliance Approval (project type: air)
Off Instrument Name:
Posted By:
Company Name: Lafarge Canada Inc.
Site Address:
Location Other:

Proponent Name:
Proponent Address: 6509 Airport Road, Mississauga Ontario, Canada L4V 1S7
Comment Period:
URL:

Site Location Details:

Mobile Mississauga, Regional Municipality Of Peel CITY OF MISSISSAUGA

Site: ***Lafarge Canada Inc.*** ***Database:*** ***EBR***
Mobile Facility Mississauga, Regional Municipality of Peel CITY OF MISSISSAUGA ON

EBR Registry No: 012-0865 ***Decision Posted:***
Ministry Ref No: 1030-9DTKGN ***Exception Posted:***
Notice Type: Instrument Decision ***Section:***
Notice Stage: ***Act 1:***
Notice Date: March 20, 2017 ***Act 2:***
Proposal Date: January 20, 2014 ***Site Location Map:***
Year: 2014
Instrument Type: (EPA Part II.1-air) - Environmental Compliance Approval (project type: air)
Off Instrument Name:
Posted By:
Company Name: Lafarge Canada Inc.
Site Address:
Location Other:
Proponent Name:
Proponent Address: 6509 Airport Road, Mississauga Ontario, Canada L4V 1S7
Comment Period:
URL:

Site Location Details:

Mobile Facility Mississauga, Regional Municipality of Peel CITY OF MISSISSAUGA

Site: ***Tri-Phase Environmental Inc.*** ***Database:*** ***EBR***
Mobile Facility Mississauga, Regional Municipality of Peel CITY OF MISSISSAUGA ON

EBR Registry No: 011-3636 ***Decision Posted:***
Ministry Ref No: 1830-8GDRT9 ***Exception Posted:***
Notice Type: Instrument Decision ***Section:***
Notice Stage: ***Act 1:***
Notice Date: November 02, 2011 ***Act 2:***
Proposal Date: May 24, 2011 ***Site Location Map:***
Year: 2011
Instrument Type: (EPA s. 9) - Approval for discharge into the natural environment other than water (i.e. Air)
Off Instrument Name:
Posted By:
Company Name: Tri-Phase Environmental Inc.
Site Address:
Location Other:
Proponent Name:
Proponent Address: 446 Hazelhurst Road, Mississauga Ontario, Canada L5J 2Z7
Comment Period:
URL:

Site Location Details:

Mobile Facility Mississauga, Regional Municipality of Peel CITY OF MISSISSAUGA

Site: ***Petro-Canada Products*** ***Database:*** ***EBR***
Lot 32/conc.3, Dundas St. s. CITY OF MISSISSAUGA ON

EBR Registry No: IA8E0358
Ministry Ref No: 8359293 19980313
Notice Type: Instrument Decision
Notice Stage:
Notice Date: June 05, 1998
Proposal Date: March 16, 1998
Year: 1998
Instrument Type: (EPA s. 9) - Approval for discharge into the natural environment other than water (i.e. Air)
Off Instrument Name:
Posted By:
Company Name: Petro-Canada Products
Site Address:
Location Other:
Proponent Name:
Proponent Address: Central Region Business Centre, 3275 Rebecca St., Oakville Ontario, L6L 6N5
Comment Period:
URL:

Site Location Details:

Lot 32/conc.3, Dundas St. s. CITY OF MISSISSAUGA

Site: ***1068342 Ontario Limited***
Lot 11, Concession 1 CITY OF MISSISSAUGA ON

Database: ***EBR***

EBR Registry No: IA7E1116
Ministry Ref No: A680260
Notice Type: Instrument Decision
Notice Stage:
Notice Date: February 03, 1997
Proposal Date: July 30, 1997
Year: 1997
Instrument Type: (EPA s. 27) - Approval for a waste disposal site.
Off Instrument Name:
Posted By:
Company Name: 1068342 Ontario Limited
Site Address:
Location Other:
Proponent Name:
Proponent Address: 2524 Cawthra Road, Mississauga Ontario, L5A 2X3
Comment Period:
URL:

Site Location Details:

Lot 11, Concession 1 CITY OF MISSISSAUGA

Site: ***Lafarge Canada Inc.***
Portable Facility Mississauga Regional Municipality of Peel CITY OF MISSISSAUGA ON

Database: ***EBR***

EBR Registry No: 012-8311
Ministry Ref No: 5294-ABRJXY
Notice Type: Instrument Decision
Notice Stage:
Notice Date: November 14, 2017
Proposal Date: August 02, 2016
Year: 2016
Instrument Type: (EPA Part II.1-air) - Environmental Compliance Approval (project type: air)
Off Instrument Name:
Posted By:
Company Name: Lafarge Canada Inc.
Site Address:
Location Other:
Proponent Name:
Proponent Address: 6509 Airport Road, Mississauga Ontario, Canada L4V 1S7

Comment Period:
URL:

Site Location Details:

Portable Facility Mississauga Regional Municipality of Peel CITY OF MISSISSAUGA

Site: ***Lafarge Canada Inc.***
Mobile Facility CITY OF MISSISSAUGA ON

Database: ***EBR***

EBR Registry No: 012-2498
Ministry Ref No: 9796-9MKHED
Notice Type: Instrument Decision
Notice Stage:
Notice Date: September 18, 2017
Proposal Date: September 05, 2014
Year: 2014
Instrument Type: (EPA Part II.1-air) - Environmental Compliance Approval (project type: air)
Off Instrument Name:
Posted By:
Company Name: Lafarge Canada Inc.
Site Address:
Location Other:
Proponent Name:
Proponent Address: 6509 Airport Road, Mississauga Ontario, Canada L4V 1S7
Comment Period:
URL:

Decision Posted:
Exception Posted:
Section:
Act 1:
Act 2:
Site Location Map:

Site Location Details:

Mobile Facility CITY OF MISSISSAUGA

Site: ***Lafarge Canada Inc.***
Mobile Facility Mississauga, Regional Municipality of Peel CITY OF MISSISSAUGA ON

Database: ***EBR***

EBR Registry No: 012-1278
Ministry Ref No: 2130-9GYSD6
Notice Type: Instrument Decision
Notice Stage:
Notice Date: March 21, 2017
Proposal Date: March 12, 2014
Year: 2014
Instrument Type: (EPA Part II.1-air) - Environmental Compliance Approval (project type: air)
Off Instrument Name:
Posted By:
Company Name: Lafarge Canada Inc.
Site Address:
Location Other:
Proponent Name:
Proponent Address: 6509 Airport Road, Mississauga Ontario, Canada L4V 1S7
Comment Period:
URL:

Decision Posted:
Exception Posted:
Section:
Act 1:
Act 2:
Site Location Map:

Site Location Details:

Mobile Facility Mississauga, Regional Municipality of Peel CITY OF MISSISSAUGA

Site: ***Lafarge Canada Inc.***
Mobile Facility Mississauga, Regional Municipality of Peel CITY OF MISSISSAUGA ON

Database: ***EBR***

EBR Registry No: 012-1272
Ministry Ref No: 3574-9GHPUV

Decision Posted:
Exception Posted:

Notice Type: Instrument Decision
Notice Stage:
Notice Date: March 06, 2017
Proposal Date: March 12, 2014
Year: 2014
Instrument Type: (EPA Part II.1-air) - Environmental Compliance Approval (project type: air)
Off Instrument Name:
Posted By:
Company Name: Lafarge Canada Inc.
Site Address:
Location Other:
Proponent Name:
Proponent Address: 6509 Airport Road, Mississauga Ontario, Canada L4V 1S7
Comment Period:
URL:

Site Location Details:

Mobile Facility Mississauga, Regional Municipality of Peel CITY OF MISSISSAUGA

Site: ***Lafarge Canada Inc.***
Mobile Facility Mississauga ON L4V 1S7

Database: ***ECA***

Approval No: 7506-AK9RVS
Approval Date: 2017-03-14
Status: Revoked and/or Replaced
Record Type: ECA
Link Source: IDS
SWP Area Name:
Approval Type: ECA-Air
Project Type: Air
Business Name: Lafarge Canada Inc.
Address: Mobile Facility
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/1030-9DTKGN-14.pdf
PDF Site Location:

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

Site: ***Lafarge Canada Inc.***
Portable Facility Mississauga ON L4V 1S7

Database: ***ECA***

Approval No: 8072-AYSHZ7
Approval Date: 2018-05-16
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
Approval Type: ECA-AIR
Project Type: AIR
Business Name: Lafarge Canada Inc.
Address: Portable Facility
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/9585-AX5Q95-14.pdf
PDF Site Location:

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

Site: ***Lafarge Canada Inc.***
Mobile Facility Mississauga ON L4V 1S7

Database: ***ECA***

Approval No: 1555-AJSQPB
Approval Date: 2017-02-28
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
Approval Type: ECA-AIR

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

Project Type: AIR
Business Name: Lafarge Canada Inc.
Address: Mobile Facility
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/3574-9GHPUV-13.pdf
PDF Site Location:

Site: ***Lafarge Canada Inc.***
Mobile Facility Mississauga ON L4V 1S7

Database: ***ECA***

Approval No: 9617-AQSK56
Approval Date: 2017-09-12
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:
Approval Type: ECA-AIR
Project Type: AIR
Business Name: Lafarge Canada Inc.
Address: Mobile Facility
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/9796-9MKHED-14.pdf
PDF Site Location:

Site: ***The Regional Municipality of Peel***
Cawthra Rd (From Bloor Street to Dundas Street) Mississauga ON L6T 4B9

Database: ***ECA***

Approval No: 9142-ASNH4X
Approval Date: 2017-11-01
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: The Regional Municipality of Peel
Address: Cawthra Rd (From Bloor Street to Dundas Street)
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/4913-ASERFT-14.pdf
PDF Site Location:

Site: ***Lafarge Canada Inc.***
Portable Facility Mississauga ON L4V 1S7

Database: ***ECA***

Approval No: 1143-ASMHQV
Approval Date: 2017-11-08
Status: Revoked and/or Replaced
Record Type: ECA
Link Source: IDS
SWP Area Name:
MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:
Approval Type: ECA-AIR
Project Type: AIR
Business Name: Lafarge Canada Inc.
Address: Portable Facility
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/5294-ABRJXY-14.pdf
PDF Site Location:

Site: ***Lafarge Canada Inc.***
Mobile Facility Mississauga ON L4V 1S7

Database: ***ECA***

Approval No: undefined
Approval Date: 1970-01-01
MOE District: undefined
City:

Status:	Approved	***Longitude:***	0.000000000000000
Record Type:	ECA	***Latitude:***	0.000000000000000
Link Source:	IDS	***Geometry X:***	
SWP Area Name:	undefined	***Geometry Y:***	
Approval Type:	ECA-Air		
Project Type:	Air		
Business Name:	Lafarge Canada Inc.		
Address:	Mobile Facility		
Full Address:			
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/3574-9GHPUV-13.pdf		
PDF Site Location:			

Site: ***Tri-Phase Environmental Inc.***
Mobile Facility Mississauga ON L5J 2Z7

Database: ***ECA***

Approval No:	0901-8LQQ2K	***MOE District:***	
Approval Date:	2011-10-26	***City:***	
Status:	Approved	***Longitude:***	
Record Type:	ECA	***Latitude:***	
Link Source:	IDS	***Geometry X:***	
SWP Area Name:		***Geometry Y:***	
Approval Type:	ECA-AIR		
Project Type:	AIR		
Business Name:	Tri-Phase Environmental Inc.		
Address:	Mobile Facility		
Full Address:			
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/1830-8GDRT9-13.pdf		
PDF Site Location:			

Site: ***Lafarge Canada Inc.***
Mobile Facility Mississauga ON L4V 1S7

Database: ***ECA***

Approval No:		***MOE District:***	
Approval Date:		***City:***	
Status:	Approved	***Longitude:***	
Record Type:	ECA	***Latitude:***	
Link Source:	IDS	***Geometry X:***	
SWP Area Name:		***Geometry Y:***	
Approval Type:	ECA-Air		
Project Type:	Air		
Business Name:	Lafarge Canada Inc.		
Address:	Mobile Facility		
Full Address:			
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/3574-9GHPUV-13.pdf		
PDF Site Location:			

Site: ***Terano Properties Inc.***
Lots 8 9 and Part of Lot 10 Reg. Plan 334 Mississauga ON L4L 8G7

Database: ***ECA***

Approval No:	7549-5SHNF6	***MOE District:***	
Approval Date:	2003-10-21	***City:***	
Status:	Approved	***Longitude:***	
Record Type:	ECA	***Latitude:***	
Link Source:	IDS	***Geometry X:***	
SWP Area Name:		***Geometry Y:***	
Approval Type:	ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS		
Project Type:	MUNICIPAL AND PRIVATE SEWAGE WORKS		
Business Name:	Terano Properties Inc.		
Address:	Lots 8 9 and Part of Lot 10 Reg. Plan 334		
Full Address:			
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/0494-5S6P8T-14.pdf		
PDF Site Location:			

Site: ***Terano Properties Inc.***
Lots 8 9 and Part of Lot 10 Reg. Plan 334 Mississauga ON L4L 8G7

Database: ***ECA***

Approval No:	8436-5SEL65	***MOE District:***	
Approval Date:	2003-10-21	***City:***	
Status:	Approved	***Longitude:***	
Record Type:	ECA	***Latitude:***	
Link Source:	IDS	***Geometry X:***	
SWP Area Name:		***Geometry Y:***	
Approval Type:	ECA-Municipal Drinking Water Systems		
Project Type:	Municipal Drinking Water Systems		
Business Name:	Terano Properties Inc.		
Address:	Lots 8 9 and Part of Lot 10 Reg. Plan 334		
Full Address:			
Full PDF Link:			
PDF Site Location:			

Site: ***Lafarge Canada Inc.***
Mobile Facility Mississauga ON L4V 1S7

Database: ***ECA***

Approval No:	8847-AKJQZE	***MOE District:***	
Approval Date:	2017-03-17	***City:***	
Status:	Approved	***Longitude:***	
Record Type:	ECA	***Latitude:***	
Link Source:	IDS	***Geometry X:***	
SWP Area Name:		***Geometry Y:***	
Approval Type:	ECA-AIR		
Project Type:	AIR		
Business Name:	Lafarge Canada Inc.		
Address:	Mobile Facility		
Full Address:			
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/2257-AKHFKF-14.pdf		
PDF Site Location:			

Site: ***Lafarge Canada Inc.***
Mobile Facility Mississauga ON L4V 1S7

Database: ***ECA***

Approval No:	0478-BJHLBL	***MOE District:***	
Approval Date:	2019-12-13	***City:***	
Status:	Approved	***Longitude:***	
Record Type:	ECA	***Latitude:***	
Link Source:	IDS	***Geometry X:***	
SWP Area Name:		***Geometry Y:***	
Approval Type:	ECA-AIR		
Project Type:	AIR		
Business Name:	Lafarge Canada Inc.		
Address:	Mobile Facility		
Full Address:			
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/2101-B8UJNB-14.pdf		
PDF Site Location:			

Site: ***Lafarge Canada Inc.***
Mobile Facility Mississauga ON L4V 1S7

Database: ***ECA***

Approval No:	5284-AJEK9T	***MOE District:***	
Approval Date:	2017-02-28	***City:***	
Status:	Approved	***Longitude:***	
Record Type:	ECA	***Latitude:***	
Link Source:	IDS	***Geometry X:***	
SWP Area Name:		***Geometry Y:***	
Approval Type:	ECA-AIR		
Project Type:	AIR		
Business Name:	Lafarge Canada Inc.		
Address:	Mobile Facility		
Full Address:			

Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/3068-9FFKME-14.pdf
PDF Site Location:

Site: ***Lafarge Canada Inc.***
Mobile Facility Mississauga ON L4V 1S7

Database: ***ECA***

Approval No: 9893-AKGLQX
Approval Date: 2017-03-17
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
Approval Type: ECA-Air
Project Type: Air
Business Name: Lafarge Canada Inc.
Address: Mobile Facility
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/4414-9FVPMZ-14.pdf
PDF Site Location:

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

Site: ***Lafarge Canada Inc.***
Mobile Facility Mississauga ON L4V 1S7

Database: ***ECA***

Approval No: 8428-AKFRS8
Approval Date: 2017-03-16
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
Approval Type: ECA-AIR
Project Type: AIR
Business Name: Lafarge Canada Inc.
Address: Mobile Facility
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/2130-9GYSD6-14.pdf
PDF Site Location:

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

Site: ***Trans-Northern Pipelines Inc.***
Lot 31, Concession 2, South of Dundas St Mississauga ON L5J 2Z2

Database: ***GEN***

Generator No: ON3791892
SIC Code:
SIC Description:
Approval Years: As of Oct 2019
PO Box No:
Country: Canada

Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 146 L
Waste Class Desc: Other specified inorganic sludges, slurries or solids

---

Site: ***Trans Northern Pipelines Inc.***
Lot 14, Concession 1 South of Dundas Street Mississauga ON L5A2J9

Database: ***GEN***

Generator No: ON6595136
SIC Code:
SIC Description:
Approval Years: As of Oct 2019
PO Box No:
Country: Canada

Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 146 L
Waste Class Desc: Other specified inorganic sludges, slurries or solids

---

Site: ***Enbridge Gas Distribution Inc.***
Part of Lot 35, Conc. 1, South of Dundas St. E side of Winston Churchill, N of Sheridan Park Dr Mississauga ON

Database: ***GEN***

Generator No: ON6134180
SIC Code: 221210
SIC Description: NATURAL GAS DISTRIBUTION
Approval Years: 2013
PO Box No:
Country:

Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 243
Waste Class Desc: PCBS

Waste Class: 251
Waste Class Desc: OIL SKIMMINGS & SLUDGES

Site: ***Trans Northern Pipelines Inc.***
Lot 31, Plan 727, Lot 17, Plan 537 S of Dundas St Mississauga ON L4Y 1W3

Database: ***GEN***

Generator No: ON5140497
SIC Code:
SIC Description:
Approval Years: As of Oct 2019
PO Box No:
Country: Canada

Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 146 L
Waste Class Desc: Other specified inorganic sludges, slurries or solids

---

Site: ***Trans Northern Pipelines Inc.***
Lot 32, Concession 2, South Of Dundas St Mississauga ON L5J 0B3

Database: ***GEN***

Generator No: ON4222299
SIC Code:
SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada

Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 146 L
Waste Class Desc: Other specified inorganic sludges, slurries or solids

---

Site: ***Trans Northern Pipelines Inc.***
Lot 10, Concession 1, South of Dundas Street Mississauga ON L4Y 5C5

Database: ***GEN***

Generator No: ON7170827
SIC Code:
SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada

Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contam. Facility:
MHSW Facility:

Detail(s)

Waste Class: 146 L
Waste Class Desc: Other specified inorganic sludges, slurries or solids

---

Site: ***Derrydale Golf Course Ltd.***
Lot 11, Concession 1 Mississauga ON

Database: ***PTTW***

EBR Registry No: IA01E0901
Ministry Ref No: 01-P-3040
Notice Type: Instrument\sDecision
Notice Stage:
Notice Date: May\s17,\s2005
Proposal Date: July\s12,\s2001
Year: 2001
Instrument Type: (OWRA\ss.\s34)\s-\sPermit\sto\sTake\sWater
Off Instrument Name:
Posted By:
Company Name: Derrydale\sGolf\sCourse\sLtd.
Site Address:
Location Other:
Proponent Name:
Proponent Address: 185\sDerry\sRoad\sWest,\sMississauga\sOntario,\sL5M\s2B5
Comment Period:
URL:

Decision Posted:
Exception Posted:
Section:
Act 1:
Act 2:
Site Location Map:

Site Location Details:

Lot 11, Concession 1 Mississauga

Site:
Cawthra Road on ramp for westbound QEW Mississauga ON

Database: ***SPL***

Ref No: 4252-7YMV29
Site No:
Incident Dt:
Year:
Incident Cause:
Incident Event:
Contaminant Code:
Contaminant Name:
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Environment Impact:
Nature of Impact:
Receiving Medium:
Receiving Env:
MOE Response: No Field Response
Dt MOE Arvl on Scn:
MOE Reported Dt: 12/11/2009
Dt Document Closed:
Incident Reason:
Site Name: Cawthra Road on ramp for westbound QEW<UNOFFICIAL>
Site County/District:
Site Geo Ref Meth:
Incident Summary: QEW: TT 120L of diesel to ground, cleaned.
Contaminant Qty:

Discharger Report:
Material Group:
Health/Env Conseq:
Client Type:
Sector Type:
Agency Involved:
Nearest Watercourse:
Site Address:
Site District Office:
Site Postal Code:
Site Region:
Site Municipality:
Site Lot:
Site Conc:
Northing:
Easting:
Site Geo Ref Accu:
Site Map Datum:
SAC Action Class: Pollution Incident Reports (PIRs) and ¿Other¿ calls
Source Type:

Site:
Cawthra Rd south of Burnhamthorpe Mississauga ON

Database: ***SPL***

Ref No: 2885-8GHP8Z
Site No:
Incident Dt: 5/3/2011
Year:

Discharger Report:
Material Group:
Health/Env Conseq:
Client Type:

Incident Cause:	Pipe Or Hose Leak	***Sector Type:***	Motor Vehicle
Incident Event:		***Agency Involved:***	
Contaminant Code:	15	***Nearest Watercourse:***	
Contaminant Name:	HYDRAULIC OIL	***Site Address:***	Cawthra Rd south of Burnhamthorpe
Contaminant Limit 1:		***Site District Office:***	
Contam Limit Freq 1:		***Site Postal Code:***	
Contaminant UN No 1:		***Site Region:***	
Environment Impact:	Confirmed	***Site Municipality:***	Mississauga
Nature of Impact:	Soil Contamination	***Site Lot:***	
Receiving Medium:		***Site Conc:***	
Receiving Env:		***Northing:***	
MOE Response:		***Easting:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	
MOE Reported Dt:	5/3/2011	***Site Map Datum:***	
Dt Document Closed:		***SAC Action Class:***	Land Spills
Incident Reason:		***Source Type:***	
Site Name:	Cawthra Rd<UNOFFICIAL>		
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	Cawthra Rd: 40 L hydraulic fluid to curbside, cleaned		
Contaminant Qty:	40 L		

Site: ***Database:*** ***SPL***

East of Dundas Street Mississauga ON

Ref No:	7253-8WZCEH	***Discharger Report:***	
Site No:		***Material Group:***	
Incident Dt:	09-AUG-12	***Health/Env Conseq:***	
Year:		***Client Type:***	
Incident Cause:	Other Transport Accident	***Sector Type:***	Transport Truck
Incident Event:		***Agency Involved:***	
Contaminant Code:	13	***Nearest Watercourse:***	
Contaminant Name:	DIESEL FUEL	***Site Address:***	East of Dundas Street
Contaminant Limit 1:		***Site District Office:***	
Contam Limit Freq 1:		***Site Postal Code:***	
Contaminant UN No 1:		***Site Region:***	
Environment Impact:	Not Anticipated	***Site Municipality:***	Mississauga
Nature of Impact:	Soil Contamination	***Site Lot:***	
Receiving Medium:		***Site Conc:***	
Receiving Env:		***Northing:***	
MOE Response:	No Field Response	***Easting:***	
Dt MOE Arvl on Scn:		***Site Geo Ref Accu:***	
MOE Reported Dt:	09-AUG-12	***Site Map Datum:***	
Dt Document Closed:		***SAC Action Class:***	Highway Spills (usually highway accidents)
Incident Reason:	Spill	***Source Type:***	
Site Name:	Highway 403 Westbound (Right shoulder)<UNOFFICIAL>		
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	Hwy 403, TT dsl tank ruptured, dsl to shoulder/ditch		
Contaminant Qty:	367 L		

Site: ***Database:*** ***WDS***

NORTH OF DUNDAS ST. MISSISSAUGA ON

Approval No:	A220113	***Total Area (ha):***	0
Mob Unit Cert No:		***Landfill Cap (m³):***	0
EBR Registry No:		***Transfer Area (ha):***	0
Status:	Approved	***Transfer Cap (m³):***	0
Facility Type:	Landfill	***Transfer Cert No:***	
Record Type:		***Inciner. Area (ha):***	0
Link Source:		***Inciner. Cap (t):***	0
Project Type:		***Process Area (m³):***	0
Application Status:		***Process Cap (m³/d):***	0
Issue Date:	08/18/1981	***Process Vol (m³):***	0
Input Date:	4/25/97	***Process Feed (m³):***	0
Date Received:	7/18/80	***Site Concession:***	1
Est Closure Date:		***Site Region/County:***	

Mobile Capacity: 0
Mobile Units:
Mobile Description:
Prop City: MISSISSAUGA, ONTARIO
Prop Postal: L5C-1T7
Prop Phone:
Serial Link: 220113
Approval Type:
Proponent: DOMTAR INC.
Prop Address: 3065 MAVIS ROAD
Proponent County/District:
Full Address:
Site Lot: 18, 19 AND 20,PT
Waste Class Code:
Waste Class:
Waste Type:
Waste Type Other: No
Waste Description:
Landfill Monitoring:
Landfill Ctrl Type:
Site Closing Description:
Project Description:
Municipalities Served:
Approval Description:
Other Approvals/Permits:
PDF URL:
PDF Site Location:

SWP Area Name:
MOE District:
District Office: Halton-Peel
Latitude:
Longitude:
Geometry X:
Geometry Y:

Site:
NORTH OF DUNDAS ST. MISSISSAUGA ON

Database: ***WDS***

Approval No: A220113
Mob Unit Cert No:
EBR Registry No:
Status: Approved
Facility Type: Landfill
Record Type:
Link Source:
Project Type:
Application Status:
Issue Date: 07/14/1982
Input Date: 4/25/97
Date Received:
Est Closure Date:
Mobile Capacity: 0
Mobile Units:
Mobile Description:
Prop City: MISSISSAUGA, ONTARIO
Prop Postal: L5C-1T7
Prop Phone:
Serial Link: 220113
Approval Type:
Proponent: DOMTAR INC.
Prop Address: 3065 MAVIS ROAD
Proponent County/District:
Full Address:
Site Lot: 18, 19 AND 20,PT
Waste Class Code:
Waste Class:
Waste Type:
Waste Type Other: No
Waste Description:
Landfill Monitoring:
Landfill Ctrl Type:
Site Closing Description:
Project Description:
Municipalities Served:
Approval Description:

Total Area (ha): 0
Landfill Cap (m³): 0
Transfer Area (ha): 0
Transfer Cap (m³): 0
Transfer Cert No:
Inciner. Area (ha): 0
Inciner. Cap (t): 0
Process Area (m³): 0
Process Cap (m³/d): 0
Process Vol (m³): 0
Process Feed (m³): 0
Site Concession: 1
Site Region/County:
SWP Area Name:
MOE District:
District Office: Halton-Peel
Latitude:
Longitude:
Geometry X:
Geometry Y:

Other Approvals/Permits:
PDF URL:
PDF Site Location:

Site: **Database:** ***WDS***

NORTH OF DUNDAS ST. MISSISSAUGA ON

Approval No:	A220113	***Total Area (ha):***	0
Mob Unit Cert No:		***Landfill Cap (m³):***	0
EBR Registry No:		***Transfer Area (ha):***	0
Status:	Approved	***Transfer Cap (m³):***	0
Facility Type:	Landfill	***Transfer Cert No:***	
Record Type:		***Inciner. Area (ha):***	0
Link Source:		***Inciner. Cap (t):***	0
Project Type:		***Process Area (m³):***	0
Application Status:		***Process Cap (m³/d):***	0
Issue Date:	12/16/1983	***Process Vol (m³):***	0
Input Date:	4/25/97	***Process Feed (m³):***	0
Date Received:		***Site Concession:***	1
Est Closure Date:		***Site Region/County:***	
Mobile Capacity:	0	***SWP Area Name:***	
Mobile Units:		***MOE District:***	
Mobile Description:		***District Office:***	Halton-Peel
Prop City:	MISSISSAUGA, ONTARIO	***Latitude:***	
Prop Postal:	L5C-1T7	***Longitude:***	
Prop Phone:		***Geometry X:***	
Serial Link:	220113	***Geometry Y:***	
Approval Type:			
Proponent:	DOMTAR INC.		
Prop Address:	3065 MAVIS ROAD		
Proponent County/District:			
Full Address:			
Site Lot:	18, 19 AND 20,PT		
Waste Class Code:			
Waste Class:			
Waste Type:			
Waste Type Other:	No		
Waste Description:			
Landfill Monitoring:			
Landfill Ctrl Type:			
Site Closing Description:			
Project Description:			
Municipalities Served:			
Approval Description:			
Other Approvals/Permits:			
PDF URL:			
PDF Site Location:			

Site: ***JANNOCK LIMITED*** **Database:** ***WDS***

NORTH OF DUNDAS ST. MISSISSAUGA ON

Approval No:	A220113	***Total Area (ha):***	0
Mob Unit Cert No:		***Landfill Cap (m³):***	0
EBR Registry No:		***Transfer Area (ha):***	0
Status:	Approved	***Transfer Cap (m³):***	0
Facility Type:	Landfill	***Transfer Cert No:***	
Record Type:		***Inciner. Area (ha):***	0
Link Source:		***Inciner. Cap (t):***	0
Project Type:		***Process Area (m³):***	0
Application Status:		***Process Cap (m³/d):***	0
Issue Date:	12/30/1985	***Process Vol (m³):***	0
Input Date:	4/25/97	***Process Feed (m³):***	0
Date Received:		***Site Concession:***	1
Est Closure Date:		***Site Region/County:***	PEEL
Mobile Capacity:	0	***SWP Area Name:***	
Mobile Units:		***MOE District:***	
Mobile Description:		***District Office:***	Halton-Peel

Prop City:	MISSISSAUGA, ONTARIO	***Latitude:***	
Prop Postal:	L5C-1T7	***Longitude:***	
Prop Phone:		***Geometry X:***	
Serial Link:	220113	***Geometry Y:***	
Approval Type:			
Proponent:	CANADA BRICK COMPANY/JANNOCK		
Prop Address:	3065 MAVIS ROAD		
Proponent County/District:			
Full Address:			
Site Lot:	18, 19 AND 20,PT		
Waste Class Code:			
Waste Class:			
Waste Type:			
Waste Type Other:	No		
Waste Description:			
Landfill Monitoring:			
Landfill Ctrl Type:			
Site Closing Description:			
Project Description:			
Municipalities Served:			
Approval Description:			
Other Approvals/Permits:			
PDF URL:			
PDF Site Location:			

Site: ***Tri-Phase Environmental Inc.***
Mobile Facility Mississauga ON L5J 2Z7

Database: ***WDS***

Approval No:	8719-5VNRQJ	***Total Area (ha):***	
Mob Unit Cert No:		***Landfill Cap (m³):***	
EBR Registry No:		***Transfer Area (ha):***	
Status:	Approved	***Transfer Cap (m³):***	
Facility Type:		***Transfer Cert No:***	
Record Type:	ECA	***Inciner. Area (ha):***	
Link Source:	IDS	***Inciner. Cap (t):***	
Project Type:	WASTE DISPOSAL SITES	***Process Area (m³):***	
Application Status:		***Process Cap (m³/d):***	
Issue Date:	2010-02-05	***Process Vol (m³):***	
Input Date:		***Process Feed (m³):***	
Date Received:		***Site Concession:***	
Est Closure Date:		***Site Region/County:***	
Mobile Capacity:		***SWP Area Name:***	
Mobile Units:		***MOE District:***	
Mobile Description:		***District Office:***	
Prop City:		***Latitude:***	
Prop Postal:		***Longitude:***	
Prop Phone:		***Geometry X:***	
Serial Link:		***Geometry Y:***	
Approval Type:	ECA-WASTE DISPOSAL SITES		
Proponent:			
Prop Address:			
Proponent County/District:			
Full Address:	Mobile Facility		
Site Lot:			
Waste Class Code:			
Waste Class:			
Waste Type:			
Waste Type Other:			
Waste Description:			
Landfill Monitoring:			
Landfill Ctrl Type:			
Site Closing Description:			
Project Description:			
Municipalities Served:			
Approval Description:			
Other Approvals/Permits:			
PDF URL:	https://www.accessenvironment.ene.gov.on.ca/instruments/3998-7ZVSJ8-14.pdf		
PDF Site Location:			

Site:
NORTH OF DUNDAS ST. MISSISSAUGA ON

Database: ***WDS***

Approval No:	A220113	***Total Area (ha):***	0
Mob Unit Cert No:		***Landfill Cap (m³):***	0
EBR Registry No:		***Transfer Area (ha):***	0
Status:	Approved	***Transfer Cap (m³):***	0
Facility Type:	Landfill	***Transfer Cert No:***	
Record Type:		***Inciner. Area (ha):***	0
Link Source:		***Inciner. Cap (t):***	0
Project Type:		***Process Area (m³):***	0
Application Status:		***Process Cap (m³/d):***	0
Issue Date:	12/15/1981	***Process Vol (m³):***	0
Input Date:	4/25/97	***Process Feed (m³):***	0
Date Received:		***Site Concession:***	1
Est Closure Date:		***Site Region/County:***	
Mobile Capacity:	0	***SWP Area Name:***	
Mobile Units:		***MOE District:***	
Mobile Description:		***District Office:***	Halton-Peel
Prop City:	MISSISSAUGA, ONTARIO	***Latitude:***	
Prop Postal:	L5C-1T7	***Longitude:***	
Prop Phone:		***Geometry X:***	
Serial Link:	220113	***Geometry Y:***	
Approval Type:			
Proponent:	DOMTAR INC.		
Prop Address:	3065 MAVIS ROAD		
Proponent County/District:			
Full Address:			
Site Lot:	18, 19 AND 20,PT		
Waste Class Code:			
Waste Class:			
Waste Type:			
Waste Type Other:	No		
Waste Description:			
Landfill Monitoring:			
Landfill Ctrl Type:			
Site Closing Description:			
Project Description:			
Municipalities Served:			
Approval Description:			
Other Approvals/Permits:			
PDF URL:			
PDF Site Location:			

Site: ***JANNOCK LIMITED***
NORTH OF DUNDAS ST. MISSISSAUGA ON

Database: ***WDS***

Approval No:	A220113	***Total Area (ha):***	0
Mob Unit Cert No:		***Landfill Cap (m³):***	0
EBR Registry No:		***Transfer Area (ha):***	0
Status:	Approved	***Transfer Cap (m³):***	0
Facility Type:	Landfill	***Transfer Cert No:***	
Record Type:		***Inciner. Area (ha):***	0
Link Source:		***Inciner. Cap (t):***	0
Project Type:		***Process Area (m³):***	0
Application Status:		***Process Cap (m³/d):***	0
Issue Date:	09/18/1998	***Process Vol (m³):***	0
Input Date:	9/18/98	***Process Feed (m³):***	0
Date Received:	4/25/97	***Site Concession:***	1
Est Closure Date:		***Site Region/County:***	PEEL
Mobile Capacity:	0	***SWP Area Name:***	
Mobile Units:		***MOE District:***	
Mobile Description:		***District Office:***	Halton-Peel
Prop City:	MISSISSAUGA, ONTARIO	***Latitude:***	
Prop Postal:	L5C-1T7	***Longitude:***	
Prop Phone:		***Geometry X:***	

Serial Link: 220113
Approval Type:
Proponent: JANNOCK LIMITED
Prop Address: 3065 MAVIS ROAD
Proponent County/District:
Full Address:
Site Lot: 18, 19 AND 20,PT
Waste Class Code:
Waste Class:
Waste Type:
Waste Type Other: No
Waste Description:
Landfill Monitoring:
Landfill Ctrl Type:
Site Closing Description:
Project Description:
Municipalities Served:
Approval Description:
Other Approvals/Permits:
PDF URL:
PDF Site Location:
Geometry Y:

Appendix: Database Descriptions

Environmental Risk Information Services (ERIS) can search the following databases. The extent of historical information varies with each database and current information is determined by what is publicly available to ERIS at the time of update. ***Note:*** *Databases denoted with " * " indicates that the database will no longer be updated. See the individual database description for more information.*

Abandoned Aggregate Inventory: Provincial AAGR

The MAAP Program maintains a database of abandoned pits and quarries. Please note that the database is only referenced by lot and concession and city/town location. The database provides information regarding the location, type, size, land use, status and general comments.*

Government Publication Date: Sept 2002*

Aggregate Inventory: Provincial AGR

The Ontario Ministry of Natural Resources maintains a database of all active pits and quarries. The database provides information regarding the registered owner/operator, location name, operation type, approval type, and maximum annual tonnage.

Government Publication Date: Up to Nov 2021

Abandoned Mine Information System: Provincial AMIS

The Abandoned Mines Information System contains data on known abandoned and inactive mines located on both Crown and privately held lands. The information was provided by the Ministry of Northern Development and Mines (MNDM), with the following disclaimer: "the database provided has been compiled from various sources, and the Ministry of Northern Development and Mines makes no representation and takes no responsibility that such information is accurate, current or complete". Reported information includes official mine name, status, background information, mine start/end date, primary commodity, mine features, hazards and remediation.

Government Publication Date: 1800-Oct 2018

Anderson's Waste Disposal Sites: Private ANDR

The information provided in this database was collected by examining various historical documents which aimed to characterize the likely position of former waste disposal sites from 1860 to present. The research initiative behind the creation of this database was to identify those sites that are missing from the Ontario MOE Waste Disposal Site Inventory, as well as to provide revisions and corrections to the positions and descriptions of sites currently listed in the MOE inventory. In addition to historic waste disposal facilities, the database also identifies certain auto wreckers and scrap yards that have been extrapolated from documentary sources. Please note that the data is not warranted to be complete, exhaustive or authoritative. The information was collected for research purposes only.

Government Publication Date: 1860s-Present

Aboveground Storage Tanks: Provincial AST

Historical listing of aboveground storage tanks made available by the Department of Natural Resources and Forestry. Includes tanks used to hold water or petroleum. This dataset has been retired as of September 25, 2014 and will no longer be updated.

Government Publication Date: May 31, 2014

Automobile Wrecking & Supplies: Private AUWR

This database provides an inventory of known locations that are involved in the scrap metal, automobile wrecking/recycling, and automobile parts & supplies industry. Information is provided on the company name, location and business type.

Government Publication Date: 1999-Sep 30, 2021

Borehole: Provincial BORE

A borehole is the generalized term for any narrow shaft drilled in the ground, either vertically or horizontally. The information here includes geotechnical investigations or environmental site assessments, mineral exploration, or as a pilot hole for installing piers or underground utilities. Information is from many sources such as the Ministry of Transportation (MTO) boreholes from engineering reports and projects from the 1950 to 1990's in Southern Ontario. Boreholes from the Ontario Geological Survey (OGS) including The Urban Geology Analysis Information System (UGAIS) and the York Peel Durham Toronto (YPDT) database of the Conservation Authority Moraine Coalition. This database will include fields such as location, stratigraphy, depth, elevation, year drilled, etc. For all water well data or oil and gas well data for Ontario please refer to WWIS and OOGW.

Government Publication Date: 1875-Jul 2018

Certificates of Approval: Provincial CA

This database contains the following types of approvals: Air & Noise, Industrial Sewage, Municipal & Private Sewage, Waste Management Systems and Renewable Energy Approvals. The MOE in Ontario states that any facility that releases emissions to the atmosphere, discharges contaminants to ground or surface water, provides potable water supplies, or stores, transports or disposes of waste, must have a Certificate of Approval before it can operate lawfully. Fields include approval number, business name, address, approval date, approval type and status. This database will no longer be updated, as CofA's have been replaced by either Environmental Activity and Sector Registry (EASR) or Environmental Compliance Approval (ECA). Please refer to those individual databases for any information after Oct.31, 2011.

Government Publication Date: 1985-Oct 30, 2011*

Dry Cleaning Facilities: Federal CDRY

List of dry cleaning facilities made available by Environment and Climate Change Canada. Environment and Climate Change Canada's Tetrachloroethylene (Use in Dry Cleaning and Reporting Requirements) Regulations (SOR/2003-79) are intended to reduce releases of tetrachloroethylene to the environment from dry cleaning facilities.

Government Publication Date: Jan 2004-Dec 2019

Commercial Fuel Oil Tanks: Provincial CFOT

Locations of commercial underground fuel oil tanks. This is not a comprehensive or complete inventory of commercial fuel tanks in the province; this listing is a copy of records of registered commercial underground fuel oil tanks obtained under Access to Public Information.
Note that the following types of tanks do not require registration: waste oil tanks in apartments, office buildings, residences, etc.; aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: Feb 28, 2022

Chemical Manufacturers and Distributors: Private CHEM

This database includes information from both a one time study conducted in 1992 and private source and is a listing of facilities that manufacture or distribute chemicals. The production of these chemical substances may involve one or more chemical reactions and/or chemical separation processes (i.e. fractionation, solvent extraction, crystallization, etc.).

Government Publication Date: 1999-Jan 31, 2020

Chemical Register: Private CHM

This database includes a listing of locations of facilities within the Province or Territory that either manufacture and/or distributes chemicals.

Government Publication Date: 1999-Sep 30, 2021

Compressed Natural Gas Stations: Private CNG

Canada has a network of public access compressed natural gas (CNG) refuelling stations. These stations dispense natural gas in compressed form at 3,000 pounds per square inch (psi), the pressure which is allowed within the current Canadian codes and standards. The majority of natural gas refuelling is located at existing retail gasoline that have a separate refuelling island for natural gas. This list of stations is made available by the Canadian Natural Gas Vehicle Alliance.

Government Publication Date: Dec 2012 -Nov 2021

Inventory of Coal Gasification Plants and Coal Tar Sites: Provincial COAL

This inventory includes both the "Inventory of Coal Gasification Plant Waste Sites in Ontario-April 1987" and the Inventory of Industrial Sites Producing or Using Coal Tar and Related Tars in Ontario-November 1988) collected by the MOE. It identifies industrial sites that produced and continue to produce or use coal tar and other related tars. Detailed information is available and includes: facility type, size, land use, information on adjoining properties, soil condition, site operators/occupants, site description, potential environmental impacts and historic maps available. This was a one-time inventory.*

Government Publication Date: Apr 1987 and Nov 1988*

Compliance and Convictions: Provincial CONV

This database summarizes the fines and convictions handed down by the Ontario courts beginning in 1989. Companies and individuals named here have been found guilty of environmental offenses in Ontario courts of law.

Government Publication Date: 1989-Jan 2022

Certificates of Property Use: Provincial CPU

This is a subset taken from Ontario's Environmental Registry (EBR) database. It will include all CPU's on the registry such as (EPA s. 168.6) - Certificate of Property Use.

Government Publication Date: 1994 - Mar 31, 2022

Drill Hole Database: Provincial DRL

The Ontario Drill Hole Database contains information on more than 113,000 percussion, overburden, sonic and diamond drill holes from assessment files on record with the department of Mines and Minerals. Please note that limited data is available for southern Ontario, as it was the last area to be completed. The database was created when surveys submitted to the Ministry were converted in the Assessment File Research Image Database (AFRI) project. However, the degree of accuracy (coordinates) as to the exact location of drill holes is dependent upon the source document submitted to the MNDM. Levels of accuracy used to locate holes are: centering on the mining claim; a sketch of the mining claim; a 1:50,000 map; a detailed company map; or from submitted a "Report of Work".

Government Publication Date: 1886 - Sep 2020

Delisted Fuel Tanks: Provincial DTNK

List of fuel storage tank sites that were once found in - and have since been removed from - the list of fuel storage tanks made available by the regulatory agency under Access to Public Information.

Government Publication Date: Feb 28, 2022

Environmental Activity and Sector Registry: Provincial EASR

On October 31, 2011, a smarter, faster environmental approvals system came into effect in Ontario. The EASR allows businesses to register certain activities with the ministry, rather than apply for an approval. The registry is available for common systems and processes, to which preset rules of operation can be applied. The EASR is currently available for: heating systems, standby power systems and automotive refinishing. Businesses whose activities aren't subject to the EASR may apply for an ECA (Environmental Compliance Approval), Please see our ECA database.

Government Publication Date: Oct 2011- Mar 31, 2022

Environmental Registry: Provincial EBR

The Environmental Registry lists proposals, decisions and exceptions regarding policies, Acts, instruments, or regulations that could significantly affect the environment. Through the Registry, thirteen provincial ministries notify the public of upcoming proposals and invite their comments. For example, if a local business is requesting a permit, license, or certificate of approval to release substances into the air or water; these are notified on the registry. Data includes: Approval for discharge into the natural environment other than water (i.e. Air) - EPA s. 9, Approval for sewage works - OWRA s. 53(1), and EPA s. 27 - Approval for a waste disposal site. For information regarding Permit to Take Water (PTTW), Certificate of Property Use (CPU) and (ORD) Orders please refer to those individual databases.

Government Publication Date: 1994 - Mar 31, 2022

Environmental Compliance Approval: Provincial ECA

On October 31, 2011, a smarter, faster environmental approvals system came into effect in Ontario. In the past, a business had to apply for multiple approvals (known as certificates of approval) for individual processes and pieces of equipment. Today, a business either registers itself, or applies for a single approval, depending on the types of activities it conducts. Businesses whose activities aren't subject to the EASR may apply for an ECA. A single ECA addresses all of a business's emissions, discharges and wastes. Separate approvals for air, noise and waste are no longer required. This database will also include Renewable Energy Approvals. For certificates of approval prior to Nov 1st, 2011, please refer to the CA database. For all Waste Disposal Sites please refer to the WDS database.

Government Publication Date: Oct 2011- Mar 31, 2022

Environmental Effects Monitoring: Federal EEM

The Environmental Effects Monitoring program assesses the effects of effluent from industrial or other sources on fish, fish habitat and human usage of fisheries resources. Since 1992, pulp and paper mills have been required to conduct EEM studies under the Pulp and Paper Effluent Regulations. This database provides information on the mill name, geographical location and sub-lethal toxicity data.

Government Publication Date: 1992-2007*

ERIS Historical Searches: Private EHS

ERIS has compiled a database of all environmental risk reports completed since March 1999. Available fields for this database include: site location, date of report, type of report, and search radius. As per all other databases, the ERIS database can be referenced on both the map and "Statistical Profile" page.

Government Publication Date: 1999-Nov 30, 2021

Environmental Issues Inventory System: Federal EIIS

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

Government Publication Date: 1992-2001*

Emergency Management Historical Event: Provincial EMHE

List of locations of historical occurrences of emergency events, including those assigned to the Ministry of Natural Resources by Order-In-Council (OIC) under the Emergency Management and Civil Protection Act, as well as events where MNR provided requested emergency response assistance. Many of these events will have involved community evacuations, significant structural loss, and/or involvement of MNR emergency response staff. These events fall into one of ten (10) type categories: Dam Failure; Drought / Low Water; Erosion; Flood; Forest Fire; Soil and Bedrock Instability; Petroleum Resource Center Event, EMO Requested Assistance, Continuity of Operations Event, Other Requested Assistance. EMHE record details are reproduced by ERIS under License with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2017.

Government Publication Date: Dec 31, 2016

Environmental Penalty Annual Report: Provincial EPAR

This database contains data from Ontario's annual environmental penalty report published by the Ministry of the Environment and Climate Change. These reports provide information on environmental penalties for land or water violations issued to companies in one of the nine industrial sectors covered by the Municipal Industrial Strategy for Abatement (MISA) regulations.

Government Publication Date: Jan 1, 2011 - Dec 31, 2021

List of Expired Fuels Safety Facilities: Provincial EXP

List of facilities and tanks for which there was once a fuel registration. This is not a comprehensive or complete inventory of expired tanks/tank facilities in the province; this listing is a copy of previously registered tanks and facilities obtained under Access to Public Information. Includes private fuel outlets, bulk plants, fuel oil tanks, gasoline stations, marinas, propane filling stations, liquid fuel tanks, piping systems, etc; includes tanks which have been removed from the ground.
Notes: registration was not required for private fuel underground/aboveground storage tanks prior to January 1990, nor for furnace oil tanks prior to May 1, 2002; registration is not required for waste oil tanks in apartments, office buildings, residences, etc., or aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: Feb 28, 2022

Federal Convictions: Federal FCON

Environment Canada maintains a database referred to as the "Environmental Registry" that details prosecutions under the Canadian Environmental Protection Act (CEPA) and the Fisheries Act (FA). Information is provided on the company name, location, charge date, offence and penalty.

Government Publication Date: 1988-Jun 2007*

Contaminated Sites on Federal Land: Federal FCS

The Federal Contaminated Sites Inventory includes information on known federal contaminated sites under the custodianship of departments, agencies and consolidated Crown corporations as well as those that are being or have been investigated to determine whether they have contamination arising from past use that could pose a risk to human health or the environment. The inventory also includes non-federal contaminated sites for which the Government of Canada has accepted some or all financial responsibility. It does not include sites where contamination has been caused by, and which are under the control of, enterprise Crown corporations, private individuals, firms or other levels of government. Includes fire training sites and sites at which Per- and Polyfluoroalkyl Substances (PFAS) are a concern.

Government Publication Date: Jun 2000-Nov 2021

Fisheries & Oceans Fuel Tanks: Federal FOFT

Fisheries & Oceans Canada maintains an inventory of aboveground & underground fuel storage tanks located on Fisheries & Oceans property or controlled by DFO. Our inventory provides information on the site name, location, tank owner, tank operator, facility type, storage tank location, tank contents & capacity, and date of tank installation.

Government Publication Date: 1964-Sep 2019

Federal Identification Registry for Storage Tank Systems (FIRSTS): Federal FRST

A list of federally regulated Storage tanks from the Federal Identification Registry for Storage Tank Systems (FIRSTS). FIRSTS is Environment and Climate Change Canada's database of storage tank systems subject to the Storage Tank for Petroleum Products and Allied Petroleum Products Regulations. The main objective of the Regulations is to prevent soil and groundwater contamination from storage tank systems located on federal and aboriginal lands. Storage tank systems that do not have a valid identification number displayed in a readily visible location on or near the storage tank system may be refused product delivery.

Government Publication Date: May 31, 2018

Fuel Storage Tank: Provincial FST

List of registered private and retail fuel storage tanks. This is not a comprehensive or complete inventory of private and retail fuel storage tanks in the province; this listing is a copy of registered private and retail fuel storage tanks, obtained under Access to Public Information.
Notes: registration was not required for private fuel underground/aboveground storage tanks prior to January 1990, nor for furnace oil tanks prior to May 1, 2002; registration is not required for waste oil tanks in apartments, office buildings, residences, etc., or aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: Feb 28, 2022

Fuel Storage Tank - Historic: Provincial FSTH

The Fuels Safety Branch of the Ontario Ministry of Consumer and Commercial Relations maintained a database of all registered private fuel storage tanks. Public records of private fuel storage tanks are only available since the registration became effective in September 1989. This information is now collected by the Technical Standards and Safety Authority.

Government Publication Date: Pre-Jan 2010*

Ontario Regulation 347 Waste Generators Summary: Provincial GEN

Regulation 347 of the Ontario EPA defines a waste generation site as any site, equipment and/or operation involved in the production, collection, handling and/or storage of regulated wastes. A generator of regulated waste is required to register the waste generation site and each waste produced, collected, handled, or stored at the site. This database contains the registration number, company name and address of registered generators including the types of hazardous wastes generated. It includes data on waste generating facilities such as: drycleaners, waste treatment and disposal facilities, machine shops, electric power distribution etc. This information is a summary of all years from 1986 including the most currently available data. Some records may contain, within the company name, the phrase "See & Use..." followed by a series of letters and numbers. This occurs when one company is amalgamated with or taken over by another registered company. The number listed as "See & Use", refers to the new ownership and the other identification number refers to the original ownership. This phrase serves as a link between the 2 companies until operations have been fully transferred.

Government Publication Date: 1986-Nov 30, 2021

Greenhouse Gas Emissions from Large Facilities: Federal GHG

List of greenhouse gas emissions from large facilities made available by Environment Canada. Greenhouse gas emissions in kilotonnes of carbon dioxide equivalents (kt CO2 eq).

Government Publication Date: 2013-Dec 2019

TSSA Historic Incidents: Provincial HINC

List of historic incidences of spills and leaks of diesel, fuel oil, gasoline, natural gas, propane, and hydrogen recorded by the TSSA in their previous incident tracking system. The TSSA's Fuels Safety Program administers the Technical Standards & Safety Act 2000, providing fuel-related safety services associated with the safe transportation, storage, handling and use of fuels such as gasoline, diesel, propane, natural gas and hydrogen. Under this Act, the TSSA regulates fuel suppliers, storage facilities, transport trucks, pipelines, contractors and equipment or appliances that use fuels. Records are not verified for accuracy or completeness. This is not a comprehensive or complete inventory of historical fuel spills and leaks in the province. This listing is a copy of the data captured at one moment in time and is hence limited by the record date provided here.

Government Publication Date: 2006-June 2009*

Indian & Northern Affairs Fuel Tanks: Federal IAFT

The Department of Indian & Northern Affairs Canada (INAC) maintains an inventory of aboveground & underground fuel storage tanks located on both federal and crown land. Our inventory provides information on the reserve name, location, facility type, site/facility name, tank type, material & ID number, tank contents & capacity, and date of tank installation.

Government Publication Date: 1950-Aug 2003*

Fuel Oil Spills and Leaks: Provincial INC

Listing of spills and leaks of diesel, fuel oil, gasoline, natural gas, propane, and hydrogen reported to the Spills Action Centre (SAC). This is not a comprehensive or complete inventory of fuel-related leaks, spills, and incidents in the province; this listing in a copy of incidents reported to the SAC, obtained under Access to Public Information. Includes incidents from fuel-related hazards such as spills, fires, and explosions. Records are not verified for accuracy or completeness.

Government Publication Date: Feb 28, 2022

Landfill Inventory Management Ontario: Provincial LIMO

The Landfill Inventory Management Ontario (LIMO) database is updated every year, as the Ministry of the Environment, Conservation and Parks compiles new and updated information. Includes small and large landfills currently operating as well as those which are closed and historic. Operators of larger landfills provide landfill information for the previous operating year to the ministry for LIMO including: estimated amount of total waste received, landfill capacity, estimated total remaining landfill capacity, fill rates, engineering designs, reporting and monitoring details, size of location, service area, approved waste types, leachate of site treatment, contaminant attenuation zone and more. The small landfills include information such as site owner, site location and certificate of approval # and status.

Government Publication Date: Feb 28, 2019

Canadian Mine Locations: Private MINE

This information is collected from the Canadian & American Mines Handbook. The Mines database is a national database that provides over 290 listings on mines (listed as public companies) dealing primarily with precious metals and hard rocks. Listed are mines that are currently in operation, closed, suspended, or are still being developed (advanced projects). Their locations are provided as geographic coordinates (x, y and/or longitude, latitude). As of 2002, data pertaining to Canadian smelters and refineries has been appended to this database.

Government Publication Date: 1998-2009*

Mineral Occurrences: Provincial MNR

In the early 70's, the Ministry of Northern Development and Mines created an inventory of approximately 19,000 mineral occurrences in Ontario, in regard to metallic and industrial minerals, as well as some information on building stones and aggregate deposits. Please note that the "Horizontal Positional Accuracy" is approximately +/- 200 m. Many reference elements for each record were derived from field sketches using pace or chain/tape measurements against claim posts or topographic features in the area. The primary limiting factor for the level of positional accuracy is the scale of the source material. The testing of horizontal accuracy of the source materials was accomplished by comparing the plan metric (X and Y) coordinates of that point with the coordinates of the same point as defined from a source of higher accuracy.

Government Publication Date: 1846-Feb 2022

National Analysis of Trends in Emergencies System (NATES): Federal NATE

In 1974 Environment Canada established the National Analysis of Trends in Emergencies System (NATES) database, for the voluntary reporting of significant spill incidents. The data was to be used to assist in directing the work of the emergencies program. NATES ran from 1974 to 1994. Extensive information is available within this database including company names, place where the spill occurred, date of spill, cause, reason and source of spill, damage incurred, and amount, concentration, and volume of materials released.

Government Publication Date: 1974-1994*

Non-Compliance Reports: Provincial NCPL

The Ministry of the Environment provides information about non-compliant discharges of contaminants to air and water that exceed legal allowable limits, from regulated industrial and municipal facilities. A reported non-compliance failure may be in regard to a Control Order, Certificate of Approval, Sectoral Regulation or specific regulation/act.

Government Publication Date: Dec 31, 2020

National Defense & Canadian Forces Fuel Tanks: Federal NDFT

The Department of National Defense and the Canadian Forces maintains an inventory of all aboveground & underground fuel storage tanks located on DND lands. Our inventory provides information on the base name, location, tank type & capacity, tank contents, tank class, date of tank installation, date tank last used, and status of tank as of May 2001. This database will no longer be updated due to the new National Security protocols which have prohibited any release of this database.

Government Publication Date: Up to May 2001*

National Defense & Canadian Forces Spills: Federal NDSP

The Department of National Defense and the Canadian Forces maintains an inventory of spills to land and water. All spill sites have been classified under the "Transportation of Dangerous Goods Act - 1992". Our inventory provides information on the facility name, location, spill ID #, spill date, type of spill, as well as the quantity of substance spilled & recovered.

Government Publication Date: Mar 1999-Apr 2018

National Defence & Canadian Forces Waste Disposal Sites: Federal NDWD

The Department of National Defence and the Canadian Forces maintains an inventory of waste disposal sites located on DND lands. Where available, our inventory provides information on the base name, location, type of waste received, area of site, depth of site, year site opened/closed and status.

Government Publication Date: 2001-Apr 2007*

National Energy Board Pipeline Incidents: Federal NEBI

Locations of pipeline incidents from 2008 to present, made available by the Canada Energy Regulator (CER) - previously the National Energy Board (NEB). Includes incidents reported under the Onshore Pipeline Regulations and the Processing Plant Regulations related to pipelines under federal jurisdiction, does not include incident data related to pipelines under provincial or territorial jurisdiction.

Government Publication Date: 2008-Jun 30, 2021

National Energy Board Wells: Federal NEBP

The NEBW database contains information on onshore & offshore oil and gas wells that are outside provincial jurisdiction(s) and are thereby regulated by the National Energy Board. Data is provided regarding the operator, well name, well ID No./UWI, status, classification, well depth, spud and release date.

Government Publication Date: 1920-Feb 2003*

National Environmental Emergencies System (NEES): Federal NEES

In 2000, the Emergencies program implemented NEES, a reporting system for spills of hazardous substances. For the most part, this system only captured data from the Atlantic Provinces, some from Quebec and Ontario and a portion from British Columbia. Data for Alberta, Saskatchewan, Manitoba and the Territories was not captured. However, NEES is also a repository for previous Environment Canada spill datasets. NEES is composed of the historic datasets ' or Trends ' which dates from approximately 1974 to present. NEES Trends is a compilation of historic databases, which were merged and includes data from NATES (National Analysis of Trends in Emergencies System), ARTS (Atlantic Regional Trends System), and NEES. In 2001, the Emergencies Program determined that variations in reporting regimes and requirements between federal and provincial agencies made national spill reporting and trend analysis difficult to achieve. As a consequence, the department has focused efforts on capturing data on spills of substances which fall under its legislative authority only (CEPA and FA). As such, the NEES database will be decommissioned in December 2004.

Government Publication Date: 1974-2003*

National PCB Inventory: Federal NPCB

Environment Canada's National PCB inventory includes information on in-use PCB containing equipment in Canada including federal, provincial and private facilities. Federal out-of-service PCB containing equipment and PCB waste owned by the federal government or by federally regulated industries such as airlines, railway companies, broadcasting companies, telephone and telecommunications companies, pipeline companies, etc. are also listed. Although it is not Environment Canada's mandate to collect data on non-federal PCB waste, the National PCB inventory includes some information on provincial and private PCB waste and storage sites. Some addresses provided may be Head Office addresses and are not necessarily the location of where the waste is being used or stored.

Government Publication Date: 1988-2008*

National Pollutant Release Inventory: Federal NPRI

Environment Canada has defined the National Pollutant Release Inventory ("NPRI") as a federal government initiative designed to collect comprehensive national data regarding releases to air, water, or land, and waste transfers for recycling for more than 300 listed substances.

Government Publication Date: 1993-May 2017

Oil and Gas Wells: Private OGWE

The Nickle's Energy Group (publisher of the Daily Oil Bulletin) collects information on drilling activity including operator and well statistics. The well information database includes name, location, class, status and depth. The main Nickle's database is updated on a daily basis, however, this database is updated on a monthly basis. More information is available at www.nickles.com.

Government Publication Date: 1988-Feb 28, 2022

Ontario Oil and Gas Wells: Provincial OOGW

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

Government Publication Date: 1800-Jan 2021

Inventory of PCB Storage Sites: Provincial OPCB

The Ontario Ministry of Environment, Waste Management Branch, maintains an inventory of PCB storage sites within the province. Ontario Regulation 11/82 (Waste Management - PCB) and Regulation 347 (Generator Waste Management) under the Ontario EPA requires the registration of inactive PCB storage equipment and/or disposal sites of PCB waste with the Ontario Ministry of Environment. This database contains information on: 1) waste quantities; 2) major and minor sites storing liquid or solid waste; and 3) a waste storage inventory.

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

Orders: Provincial ORD

This is a subset taken from Ontario's Environmental Registry (EBR) database. It will include all Orders on the registry such as (EPA s. 17) - Order for remedial work, (EPA s. 18) - Order for preventative measures, (EPA s. 43) - Order for removal of waste and restoration of site, (EPA s. 44) - Order for conformity with Act for waste disposal sites, (EPA s. 136) - Order for performance of environmental measures.

Government Publication Date: 1994 - Feb 28, 2022

Canadian Pulp and Paper: Private PAP

This information is part of the Pulp and Paper Canada Directory. The Directory provides a comprehensive listing of the locations of pulp and paper mills and the products that they produce.

Government Publication Date: 1999, 2002, 2004, 2005, 2009-2014

Parks Canada Fuel Storage Tanks: Federal PCFT

Canadian Heritage maintains an inventory of known fuel storage tanks operated by Parks Canada, in both National Parks and at National Historic Sites. The database details information on site name, location, tank install/removal date, capacity, fuel type, facility type, tank design and owner/operator.

Government Publication Date: 1920-Jan 2005*

Pesticide Register: Provincial PES

The Ontario Ministry of the Environment and Climate Change maintains a database of licensed operators and vendors of registered pesticides.

Government Publication Date: Oct 2011- Mar 31, 2022

Pipeline Incidents: Provincial PINC

List of pipeline incidents (strikes, leaks, spills). This is not a comprehensive or complete inventory of pipeline incidents in the province; this listing in an historical copy of records previously obtained under Access to Public Information. Records are not verified for accuracy or completeness.

Government Publication Date: Feb 28, 2021

Private and Retail Fuel Storage Tanks: Provincial PRT

The Fuels Safety Branch of the Ontario Ministry of Consumer and Commercial Relations maintained a database of all registered private fuel storage tanks and licensed retail fuel outlets. This database includes an inventory of locations that have gasoline, oil, waste oil, natural gas and/or propane storage tanks on their property. The MCCR no longer collects this information. This information is now collected by the Technical Standards and Safety Authority (TSSA).

Government Publication Date: 1989-1996*

Permit to Take Water: Provincial PTTW

This is a subset taken from Ontario's Environmental Registry (EBR) database. It will include all PTTW's on the registry such as OWRA s. 34 - Permit to take water.

Government Publication Date: 1994 - Mar 31, 2022

Ontario Regulation 347 Waste Receivers Summary: Provincial REC

Part V of the Ontario Environmental Protection Act ("EPA") regulates the disposal of regulated waste through an operating waste management system or a waste disposal site operated or used pursuant to the terms and conditions of a Certificate of Approval or a Provisional Certificate of Approval. Regulation 347 of the Ontario EPA defines a waste receiving site as any site or facility to which waste is transferred by a waste carrier. A receiver of regulated waste is required to register the waste receiving facility. This database represents registered receivers of regulated wastes, identified by registration number, company name and address, and includes receivers of waste such as: landfills, incinerators, transfer stations, PCB storage sites, sludge farms and water pollution control plants. This information is a summary of all years from 1986 including the most currently available data.

Government Publication Date: 1986-1990, 1992-2019

Record of Site Condition: Provincial RSC

The Record of Site Condition (RSC) is part of the Ministry of the Environment's Brownfields Environmental Site Registry. Protection from environmental cleanup orders for property owners is contingent upon documentation known as a record of site condition (RSC) being filed in the Environmental Site Registry. In order to file an RSC, the property must have been properly assessed and shown to meet the soil, sediment and groundwater standards appropriate for the use (such as residential) proposed to take place on the property. The Record of Site Condition Regulation (O. Reg. 153/04) details requirements related to site assessment and clean up.
RSCs filed after July 1, 2011 will also be included as part of the new (O.Reg. 511/09).

Government Publication Date: 1997-Sept 2001, Oct 2004-Mar 2022

Retail Fuel Storage Tanks: Private RST

This database includes an inventory of retail fuel outlet locations (including marinas) that have on their property gasoline, oil, waste oil, natural gas and / or propane storage tanks.

Government Publication Date: 1999-Sep 30, 2021

Scott's Manufacturing Directory: Private SCT

Scott's Directories is a data bank containing information on over 200,000 manufacturers across Canada. Even though Scott's listings are voluntary, it is the most comprehensive database of Canadian manufacturers available. Information concerning a company's address, plant size, and main products are included in this database.

Government Publication Date: 1992-Mar 2011*

Ontario Spills: Provincial SPL

List of spills and incidents made available the Ministry of the Environment, Conservation and Parks. This database identifies information such as location (approximate), type and quantity of contaminant, date of spill, environmental impact, cause, nature of impact, etc. Information from 1988-2002 was part of the ORIS (Occurrence Reporting Information System). The SAC (Spills Action Centre) handles all spills reported in Ontario. Regulations for spills in Ontario are part of the MOE's Environmental Protection Act, Part X. The Ministry of the Environment, Conservation and Parks cites the coronavirus pandemic as an explanation for delays in releasing data pursuant to requests.

Government Publication Date: 1988-Sep 2020; Dec 2020-Mar 2021

Wastewater Discharger Registration Database: Provincial SRDS

Information under this heading is combination of the following 2 programs. The Municipal/Industrial Strategy for Abatement (MISA) division of the Ontario Ministry of Environment maintained a database of all direct dischargers of toxic pollutants within nine sectors including: Electric Power Generation; Mining; Petroleum Refining; Organic Chemicals; Inorganic Chemicals; Pulp & Paper; Metal Casting; Iron & Steel; and Quarries. All sampling information is now collected and stored within the Sample Result Data Store (SRDS).

Government Publication Date: 1990-Dec 31, 2019

Anderson's Storage Tanks: Private TANK

The information provided in this database was collected by examining various historical documents, which identified the location of former storage tanks, containing substances such as fuel, water, gas, oil, and other various types of miscellaneous products. Information is available in regard to business operating at tank site, tank location, permit year, permit & installation type, no. of tanks installed & configuration and tank capacity. Data contained within this database pertains only to the city of Toronto and is not warranted to be complete, exhaustive or authoritative. The information was collected for research purposes only.

Government Publication Date: 1915-1953*

Transport Canada Fuel Storage Tanks: Federal TCFT

List of fuel storage tanks currently or previously owned or operated by Transport Canada. This inventory also includes tanks on The Pickering Lands, which refers to 7,530 hectares (18,600 acres) of land in Pickering, Markham, and Uxbridge owned by the Government of Canada since 1972; properties on this land has been leased by the government since 1975, and falls under the Site Management Policy of Transport Canada, but is administered by Public Works and Government Services Canada. This inventory provides information on the site name, location, tank age, capacity and fuel type.

Government Publication Date: 1970 - Dec 2020

Variances for Abandonment of Underground Storage Tanks: Provincial VAR

Listing of variances granted for storage tank abandonment. This is not a comprehensive or complete inventory of tank abandonment variances in the province; this listing is a copy of tank abandonment variance records previously obtained under Access to Public Information. In Ontario, registered underground storage tanks must be removed within two years of disuse; if removal of a tank is not feasible, an application may be sought for a variance from this code requirement.
Records are not verified for accuracy or completeness.

Government Publication Date: Feb 28, 2022

Waste Disposal Sites - MOE CA Inventory: Provincial WDS

The Ontario Ministry of Environment, Waste Management Branch, maintains an inventory of known open (active or inactive) and closed disposal sites in the Province of Ontario. Active sites maintain a Certificate of Approval, are approved to receive and are receiving waste. Inactive sites maintain Certificate(s) of Approval but are not receiving waste. Closed sites are not receiving waste. The data contained within this database was compiled from the MOE's Certificate of Approval database. Locations of these sites may be cross-referenced to the Anderson database described under ERIS's Private Source Database section, by the CA number. All new Environmental Compliance Approvals handed out after Oct 31, 2011 for Waste Disposal Sites will still be found in this database.

Government Publication Date: Oct 2011- Mar 31, 2022

Waste Disposal Sites - MOE 1991 Historical Approval Inventory: Provincial WDSH

In June 1991, the Ontario Ministry of Environment, Waste Management Branch, published the "June 1991 Waste Disposal Site Inventory", of all known active and closed waste disposal sites as of October 30st, 1990. For each "active" site as of October 31st 1990, information is provided on site location, site/CA number, waste type, site status and site classification. For each "closed" site as of October 31st 1990, information is provided on site location, site/CA number, closure date and site classification. Locations of these sites may be cross-referenced to the Anderson database described under ERIS's Private Source Database section, by the CA number.

Government Publication Date: Up to Oct 1990*

Water Well Information System: Provincial WWIS

This database describes locations and characteristics of water wells found within Ontario in accordance with Regulation 903. It includes such information as coordinates, construction date, well depth, primary and secondary use, pump rate, static water level, well status, etc. Also included are detailed stratigraphy information, approximate depth to bedrock and the approximate depth to the water table.

Government Publication Date: Sep 30, 2021

Definitions

Database Descriptions: This section provides a detailed explanation for each database including: source, information available, time coverage, and acronyms used. They are listed in alphabetic order.

Detail Report: This is the section of the report which provides the most detail for each individual record. Records are summarized by location, starting with the project property followed by records in closest proximity.

Distance: The distance value is the distance between plotted points, not necessarily the distance between the sites' boundaries. All values are an approximation.

Direction: The direction value is the compass direction of the site in respect to the project property and/or center point of the report.

Elevation: The elevation value is taken from the location at which the records for the site address have been plotted. All values are an approximation. Source: Google Elevation API.

Executive Summary: This portion of the report is divided into 3 sections:

'Report Summary'- Displays a chart indicating how many records fall on the project property and, within the report search radii.

'Site Report Summary'-Project Property'- This section lists all the records which fall on the project property. For more details, see the 'Detail Report' section.

'Site Report Summary-Surrounding Properties'- This section summarizes all records on adjacent properties, listing them in order of proximity from the project property. For more details, see the 'Detail Report' section.

Map Key: The map key number is assigned according to closest proximity from the project property. Map Key numbers always start at #1. The project property will always have a map key of '1' if records are available. If there is a number in brackets beside the main number, this will indicate the number of records on that specific property. If there is no number in brackets, there is only one record for that property.

The symbol and colour used indicates 'elevation': the red inverted triangle will dictate 'ERIS Sites with Lower Elevation', the yellow triangle will dictate 'ERIS Sites with Higher Elevation' and the orange square will dictate 'ERIS Sites with Same Elevation.'

Unplottables: These are records that could not be mapped due to various reasons, including limited geographic information. These records may or may not be in your study area, and are included as reference.

Appendix B

Fire Insurance Information

opta
INFORMATION INTELLIGENCE

enviroscan

An SCM Company

175 Commerce Valley Drive W
Markham, Ontario L3T 7Z3

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

Report Completed By:

Midori

Site Address:

2524 Cawthra Road, Mississauga, ON

Project No:

22042501364

Opta Order ID:

108523

Requested by:

Eleanor Goolab
ERIS

Date Completed:

5/2/2022 8:56:14 AM

Project Name: 2524 Cawthra Road

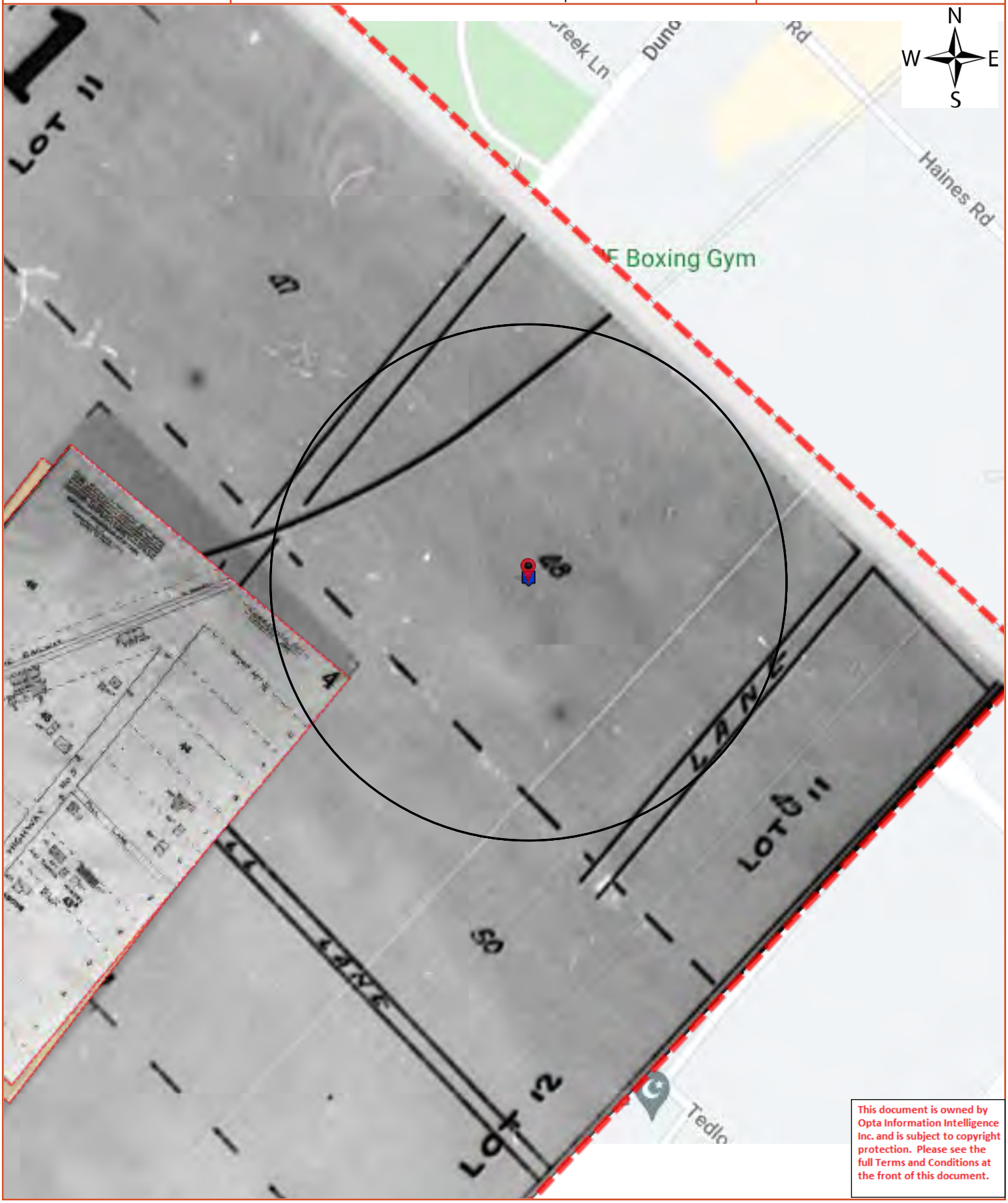
Project #: 22042501364
P.O. #: 12581540

ENVIROSCAN Report

Search Area: 2524 Cawthra Road, Mississauga, ON

Requested by:
Eleanor Goolab
Date Completed: 05/02/2022 08:56:14

enviroscan
OPTA INFORMATION INTELLIGENCE



Opta Historical Environmental Services Enviroscan™ Terms and Conditions

Report

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

Disclaimer

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

Entire Agreement

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

Governing Document

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

Law

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

ENVIROSCAN Report

Report Index

OPTA INFORMATION INTELLIGENCE

Page **Report Title**

Project Name: 2524 Cawthra Road

Project #: 22042501364
P.O. #: 12581540

ENVIROSCAN Report

1939 Volume: Ontario Miscellaneous Firemap: 1
Cooksville Plan: 471 (1939)
Sheet: 1 (1939)

Requested by:
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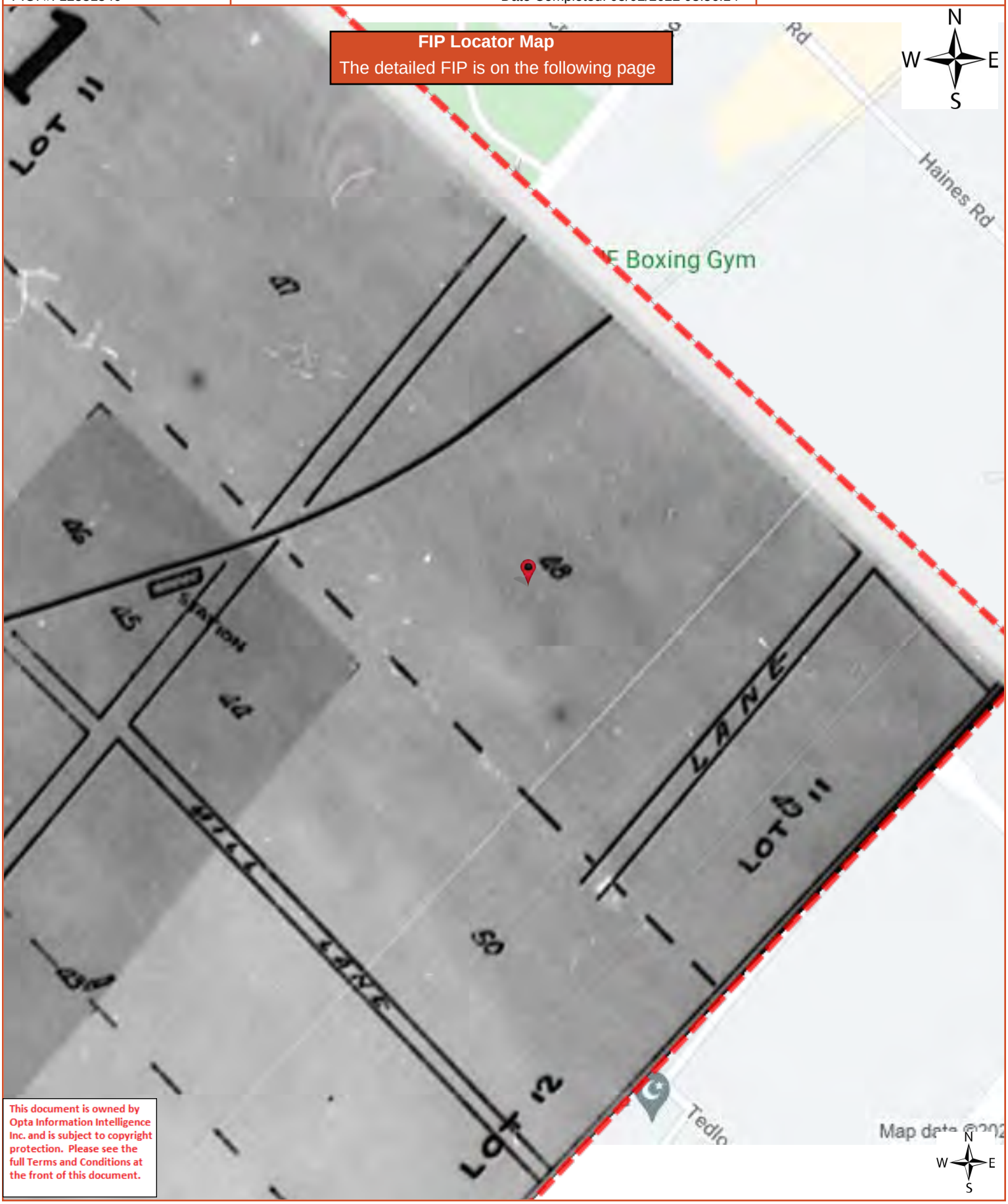
enviroscan
OPTA INFORMATION INTELLIGENCE

FIP Locator Map
The detailed FIP is on the following page



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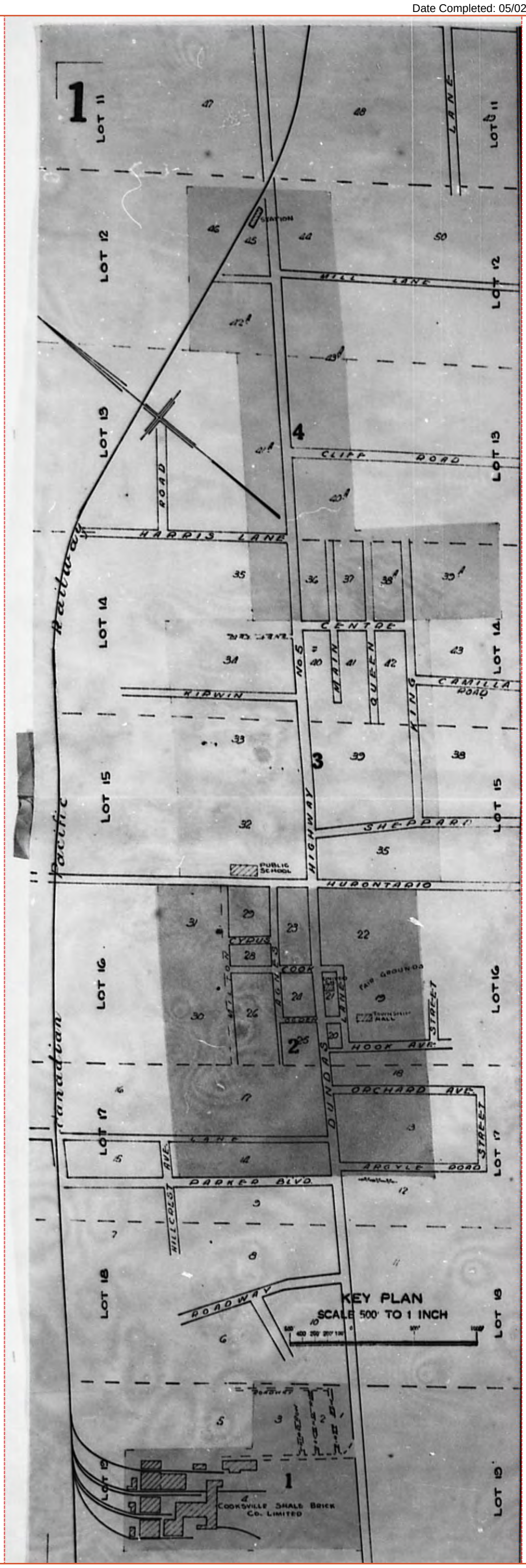

Project Name: 2524 Cawthra Road

Project #: 22042501364
P.O. #: 12581540

ENVIROSCAN Report

1939 Volume: Cooksville Firemap: 4
Cooksville Plan: 471 (1939)
Sheet: 4 (1939)

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enviroscan
OPTA INFORMATION INTELLIGENCE

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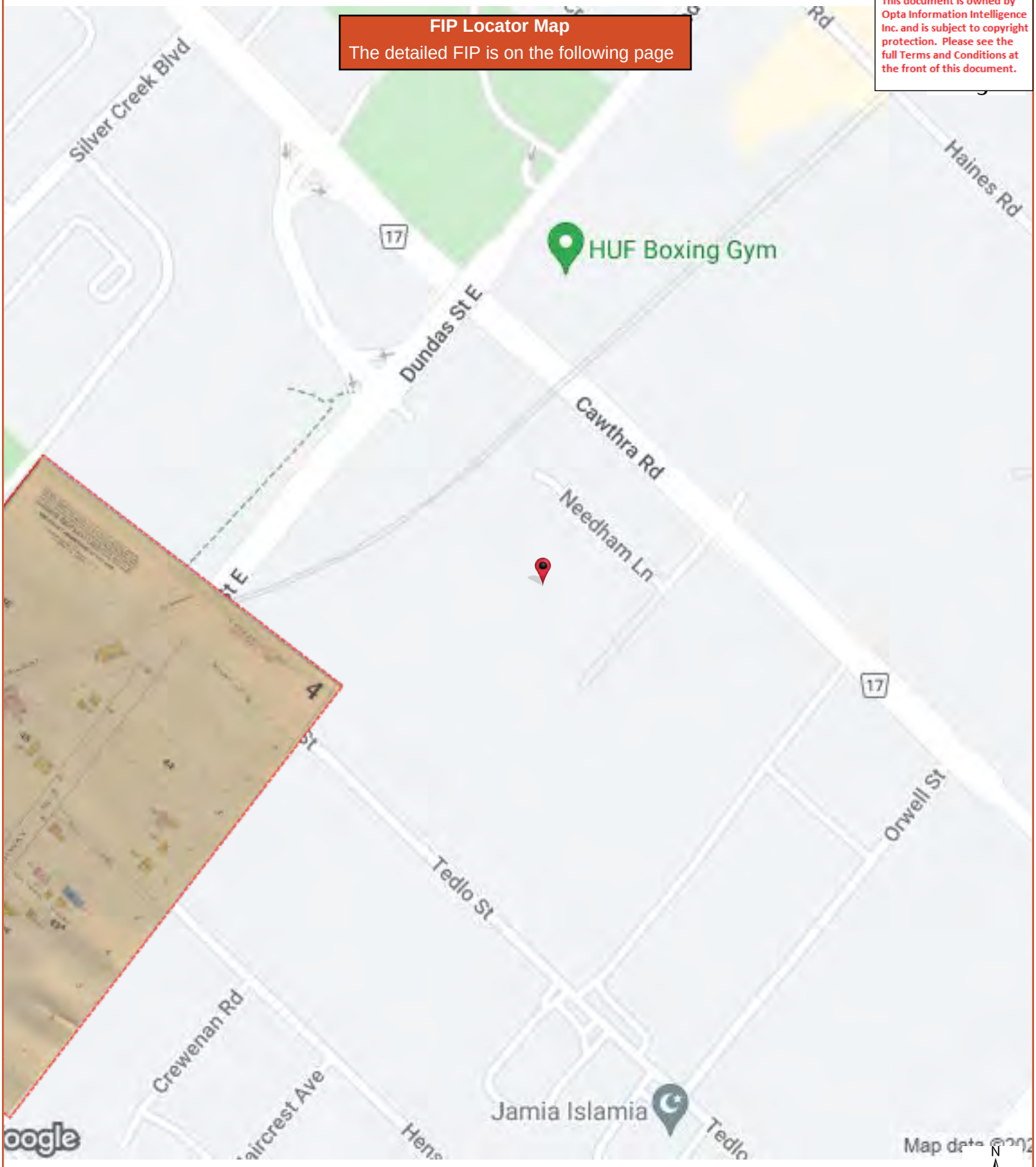

ENVIROSCAN Report

1939 Volume: Cooksville Firemap: 4
Cooksville Plan: 471 (1939)
Sheet: 4 (1939)

— COOKSVILLE, ONT. —
— JANUARY 1939 —

4

TO TORONTO

CANADIAN PACIFIC RAILWAY

COOKSVILLE RUBBER CO

RUBBER MFG

STATION

536

520

520A

502

504

500

45

494A

494

46

44

505

505A

505B

BARN

7

6

TOWNSHIP LOT 11
" " 12

10

9

8

No. 5 HIGHWAY

MILL LANE

481

5

471

471A

471C

471B

VAULT

ALEX THOMAS WINERY

4

43A

F.F. SAYERS & SON BUILDERS SUPPLIES

COAL SHEDS

OIL TANKS

472

470

468

WOOD CUTTING

STORAGE

WH'SE

466

469

458

456

AUTOS

460

462

VAC

42A

454

453

4153A

CONTINUED FROM ABOVE

3

DUNDAS

440

433

430

430A

2

TOWNSHIP LOT 12
" " 13

1

SCALE 100 FT. = 1 INCH
0 50' 100' 200' 300'

66'

Project Name: 2524 Cawthra Road

Project #: 22042501364
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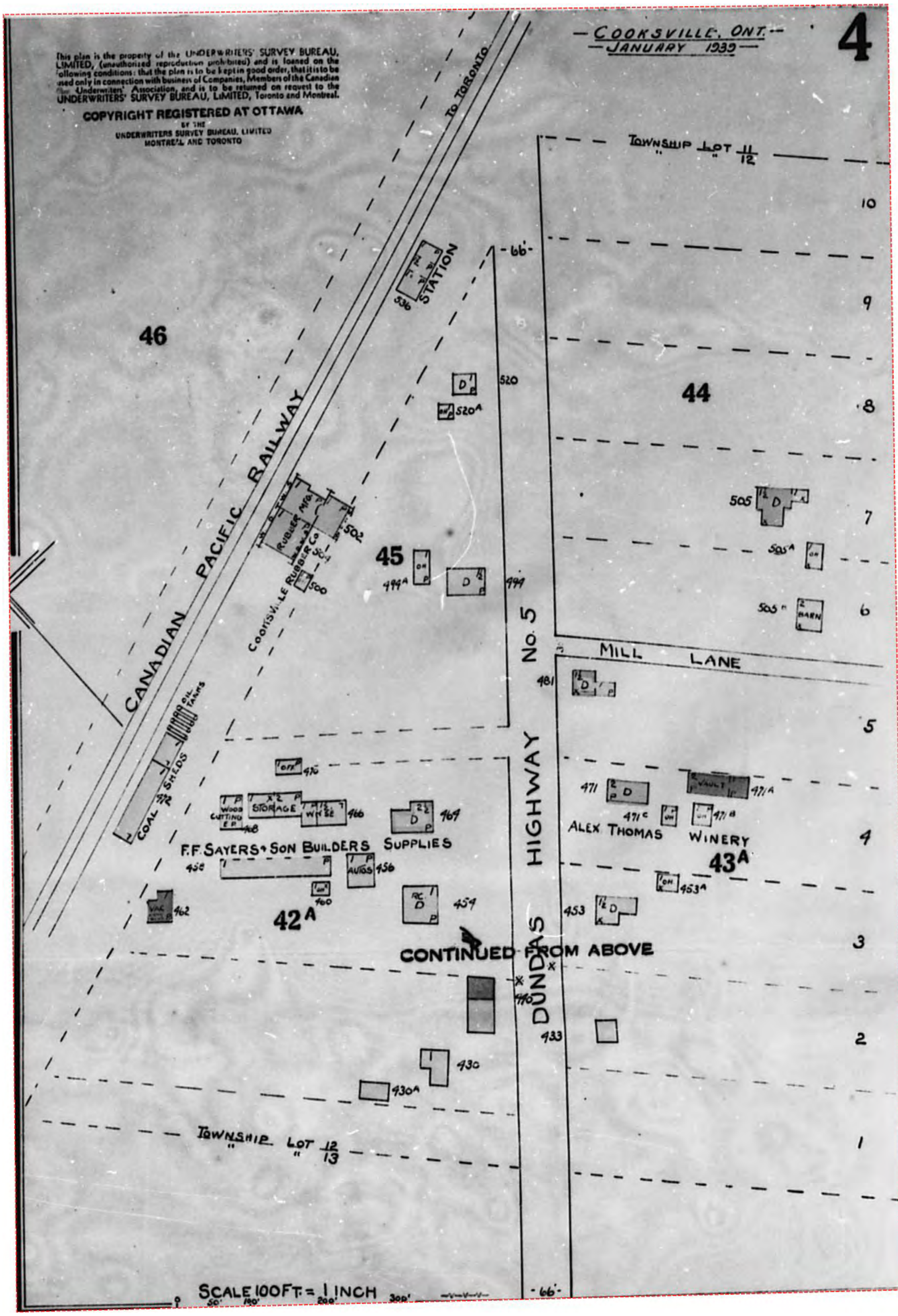


Multirisk Report - 1997 DICARLO DISPOSAL & PALLET CO. LTD. (OFFICE) 2524 Cawthra Road Mississauga ON L5A2X3

Ontario Branch
Confidential Report

MULTIRISK SURVEY

Insured:	DICARLO DISPOSAL & PALLET CO. LTD.
Location Surveyed:	2524 CAWTHRA RD MISSISSAUGA, ONTARIO L5A 2X3
Person Contacted:	Mr. Carlo Dicarlo
Telephone Number:	(905) 270-3333
Policy Number:	
AIS Reference:	10386848
Surveyed by:	P.C. Tomlinson
Date of Survey:	1997.03.19

Committed to Service Excellence

NOTE: The sole purpose of this report is to provide insurance pricing and underwriting information about the particular insured and location named. Only the person requesting this survey will receive a copy of the report, and IAO asks that it be kept strictly confidential. This report does not guarantee compliance with any standards or with any federal, provincial or municipal codes, ordinances or regulations. Tests of fire and other protection equipment have not been conducted or witnessed during this survey.

IAO reports, prepared in compliance with commonly accepted risk control standards existing at the time services are rendered, are developed from a survey of the premises and/or from data supplied by or on behalf of the Purchaser. IAO does not purport to list all hazards. While changes and modifications, referred to in the reports are designed to upgrade protection and loss prevention of the premises, IAO assumes no responsibility for management and control of these activities. IAO will not be responsible to the Purchaser for any loss or damages, whether consequential or other, however caused, incurred or suffered, as a result of the services being provided.

M U L T I R I S K - F I R E, L I A B I L I T Y A N D B A S I C C R I M E

OCCUPANCY:

The insured is an owner/occupant at this location. They have been in operation since 1972 and at this location for 5 year(s). They occupy 111 sq. m and are the major occupant, having 7 employees. The premises are in good condition. The insured is interested in loss prevention, however there have not been any losses during the last 3 years.

* Occupancy Description (Insured / major tenant if insured is non-occupant)

  The insured occupies this building for a office for a disposal company. The basement area is not used except for old storage. All operations are conducted on the first floor. This is a older building in which the insured has owned for many years, but has only occupied since 1992.

* Other Classes of Occupants

  None

* Undersirable Features

  Lack of portable fire extinguishers

Risk is Rateable under the Commercial Property Fire Schedule.
It is recommended that this location be resurveyed in 1 year(s).

BUILDING:

* Built - 1950's (est.) Height: Storey(s) (excluding basement) - 1
* There are no additions.
* There are no renovations.
* Building condition - Good

* Area: Ground Floor - 55 sq. m Total (including basement) - 111 sq. m

---

BASIC CONSTRUCTION:

* Walls - 100% patent clad - Wood frame metal clad

* Floors - (excluding basement) 100% Wood joist

* Roof - 100% - Wood joist
  - Surface material(s) - Asphalt shingles
  - Original roof.

INTERIOR FINISH:

* Walls - 100% combustible - Wood Sheathing

* Ceilings - 100% non-combustible

BASEMENTS:

* Number of basements - 1
* Total Area - 55 sq. m
* Finished - 0% Unfinished - 100%

VERTICAL OPENINGS:

* Stairs - Protection open

MEZZANINE: None

OUTBUILDINGS: None

HEATING:

* Hot Water/Steam - 100% - Oil
  - Original installation.
  - Installation appears safe

* Fuel Tanks/Supply:
  - Supply - Fuel Oil Tank
  - Fuel Tank Capacity (litres) - 1137
  - Location - Inside

* Chimneys:
  - Masonry - Standard

ELECTRICAL:

* Condition - Good and appeared safe at the time of the survey.
* Wiring - BX, Non-Metallic
* Overcurrent protection - Ordinary Fuses.
* Electrical system - Original installation.

PLUMBING:

* Condition - Good at the time of the survey.
* Piping is Copper, Galvanized Steel
* Plumbing - Original installation.

EXPOSURES: (within 15m of the risk):

* FRONT: OPEN

* LEFT: TO BUILDING
  Construction - Masonry.
  Occupancy - Manufacturer.
  Distance - 15 m Height - 1 storeys
  Protection - Automatic Sprinklers Grading - Light

* REAR: OPEN

* RIGHT: OPEN

MUNICIPAL PROTECTION:

* The FUS Public Fire Protection Classification is 2
* Responding (career) fire department Mississauga
* Distance from risk Less than 2.5 km
* Access via Paved roads. Year-round.

* The building itself is easily accesible to the fire department.
* Two hydrants within 155m (standard)

* No private protection at this location at the time of the survey.
* Protable fire extinguishers are not available.
* There is no automatic sprinkler system.

M U L T I R I S K - L I A B I L I T Y

OCCUPANCY - GENERAL INFORMATION

* Neighbourhood is predominantly industrial, commercial
* Insured - owner/occupant Area occupied - 111 sq. m
* 20% accessible to public. Public access is considered moderate
* Gross revenue - could not be determined at the time of the survey

---

PREMISES information at the time of this survey

* The following appeared to be SATISFACTORY:

  Stairs, ramps, handrails; Floor surfaces & coverings; Wall & ceilings; Inerior Lighting; Exterior Lighting; Emergency Lighting; Interior Housekeeping; Exterior Housekeeping; Washrooms; Sidewalks, Yards & Parking Lots; Snow & ice removal; Signs & Awnings; Fire exits

* Elevating devices in operation - none

M U L T I R I S K - B A S I C C R I M E

NEIGHBOURHOOD:

* Predominantly industrial, commercial
* Stable
* Best described as having a low crime rate

BUSINESS:

* Description - Office
* Hours of Operation - 6.00am-6.00pm 5 days
* Typical Stock - Office furniture and fixtures
* Smash and Grab exposure is low
* There is no safe on the premises

GENERAL PROTECTION at the time of this survey:

* The following appeared to be SATISFACTORY:

  Exterior Lighting, Interior Lighting, Roof Accessability, Police Patrols

* Security Alarm System - None

PHYSICAL PROTECTION (TENANT or OWNER/OCCUPANT):

* The exterior locks at this location are spring, slide bolt
* The windows are not barred

This report section is designed to provide basic crime information only. More detailed crime information can be obtained by ordering an Expanded Crime Supplement.

M U L T I R I S K
R E M A R K S / R E C O M M E N D A T I O N S

REMARKS:

* Fire, Liability & Basic Crime - This is a small building formerly a dwelling converted to office space for the insured's disposal business. The building consists of two private offices, and one general office, and a kitchen with only domestic cooking equipment. The basement for all intents and purposes is not used. Portable fire extinguishers are not provided. (Rec Made). The insured is co-operative, and interested in loss control. Housekeeping is considered satisfactory. It should be noted that although the building faces Needham's Lane, the address is still 2524 Cawthra Road.

RECOMMENDATIONS:

* 97-1 Fire, Liability & Basic Crime - One 2a10BC ULC labelled portable fire extinguisher should be posted on the first floor. All portable fire extinguishers should be serviced and tagged annually so as to ensure their reliability and proper working order.

Multirisk Report - 1997 DI CARLO DISPOSAL & PALLET CO. LTD (STORAGE & MAINTENACE GARAGE) 2524 Cawthra Road Mississauga ON L5A2X3

Ontario Branch
Confidential Report

MULTIRISK SURVEY

Insured:	DI CARLO DISPOSAL & PALLET CO. LTD
Location Surveyed:	2524 CAWTHRA RD MISSISSAUGA, ONTARIO L5A 2X3
Person Contacted:	Carlo Dicarlo
Telephone Number:	(905) 270-3333
Policy Number:	
AIS Reference:	10386848
Surveyed by:	P.C. Tomlinson
Date of Survey:	1997.03.19

Committed to Service Excellence

NOTE: The sole purpose of this report is to provide insurance pricing and underwriting information about the particular insured and location named. Only the person requesting this survey will receive a copy of the report, and IAO asks that it be kept strictly confidential. This report does not guarantee compliance with any standards or with any federal, provincial or municipal codes, ordinances or regulations. Tests of fire and other protection equipment have not been conducted or witnessed during this survey.

IAO reports, prepared in compliance with commonly accepted risk control standards existing at the time services are rendered, are developed from a survey of the premises and/or from data supplied by or on behalf of the Purchaser. IAO does not purport to list all hazards. While changes and modifications, referred to in the reports are designed to upgrade protection and loss prevention of the premises, IAO assumes no responsibility for management and control of these activities. IAO will not be responsible to the Purchaser for any loss or damages, whether consequential or other, however caused, incurred or suffered, as a result of the services being provided.

DI CARLO DISPOSAL & PALLET CO. LTD
2524 RD CAWTHRA; MISSISSAUGA, ONTARIO

M U L T I R I S K - F I R E, L I A B I L I T Y A N D B A S I C C R I M E

OCCUPANCY:

The insured is an owner/occupant at this location. They have been in operation since 1972 and at this location for 5 year(s). They occupy 371 sq. m and are the major occupant, having 7 employees. The premises are in good condition. The insured is interested in loss prevention, however there have not been any losses during the last 3 years.

* Occupancy Description (Insured / major tenant if insured is non-occupant)

  The insured occupies this building for storage purposes and for the maintenance garage for a disposal company. Storage is light consisting of auto parts a few tires etc. Service work is limited to mechanical work, with no spray painting or body work conducted. Equipment utilized in the process is mostly hand tools with some welding cutting equipment.

* Other Classes of Occupants

  None

* Undersirable Features

  Stairway to mezzanine without handrails

Risk is Rateable under the Commercial Property Fire Schedule.
It is recommended that this location be resurveyed in 1 year(s).

BUILDING:

* Built - 1970's (est.) Height: Storey(s) (excluding basement) - 1
* There are no additions.
* There are no renovations.
* Building condition - Good

* Area: Ground Floor - 376 sq. m Total (including basement) - 376 sq. m

---

BASIC CONSTRUCTION:

* Walls - 100% Masonry - Concrete blocks

* Floors - (excluding basement) 100% Concrete

* Roof - 100% - Steel Deck Class II
  - Surface material(s) - Tar and gravel
  - Original roof.

INTERIOR FINISH:

* Walls - 100% open

* Ceilings - 100% open

BASEMENTS: None

VERTICAL OPENINGS: None

MEZZANINE:

* Construction - Wood
* Occupancy - Storage
* Area - 10 sq. m

OUTBUILDINGS: None

HEATING:

* Suspended Unit Heaters - 100% - Natural gas
  - Original installation.
  - Installation appears safe

* Chimneys:
  - Type B Gas Vent, ULC Labelled - Standard

ELECTRICAL:

* Condition - Good and appeared safe at the time of the survey.
* Wiring - BX, Non-Metallic
* Overcurrent protection - Ordinary Fuses.
* Electrical system - Original installation.

PLUMBING:

* This risk has no plumbing.

EXPOSURES: (within 15m of the risk):

* FRONT: OPEN

* REAR: OPEN

* LEFT: TO BUILDING
  Construction - Masonry.
  Occupancy - Manufacturer.
  Distance - 15 m Height - 1 storeys
  Protection - Automatic Sprinklers Grading - Light

* RIGHT: OPEN

MUNICIPAL PROTECTION:

* The FUS Public Fire Protection Classification is 2
* Responding (career) fire department Mississauga
* Distance from risk Less than 2.5 km
* Access via Paved roads. Year-round.

* The building itself is not easily accesible to the fire department.
* One hydrant within 155m

PRIVATE PROTECTION at this location includes the following:

* Standard extinguishers

* An automatic sprinkler system is not present.

M U L T I R I S K - L I A B I L I T Y

OCCUPANCY - GENERAL INFORMATION

* Neighbourhood is predominantly industrial, commercial
* Insured - owner/occupant Area occupied - 376 sq. m
* % accessible to the public could not be determined
* Gross revenue - could not be determined at the time of the survey

---

PREMISES information at the time of this survey

* The following appeared to be SATISFACTORY:

  Floor surfaces & coverings; Wall & ceilings; Inerior Lighting; Exterior Lighting; Emergency Lighting; Interior Housekeeping; Exterior Housekeeping; Washrooms; Sidewalks, Yards & Parking Lots; Snow & ice removal; Signs & Awnings; Fire exits

* The following were found to be UNSATISFACTORY, (refer to the Remarks and Recommendations for further details):

  Stairs, ramps, handrails

* Explanation of Unsatisfactory Features, (refer to the Remarks and Recommendations for further details):

  Stairs to mezzanine without handrails

* Elevating devices in operation - none

M U L T I R I S K - B A S I C C R I M E

NEIGHBOURHOOD:

* Predominantly industrial, commercial
* Stable
* Best described as having a low crime rate

BUSINESS:

* Description - Repair Garage
* Hours of Operation - 6.00am-6.00pm 5 days
* Typical Stock - Auto parts
* Smash and Grab exposure is low
* There is no safe on the premises

GENERAL PROTECTION at the time of this survey:

* The following appeared to be SATISFACTORY:

  Exterior Lighting, Interior Lighting, Roof Accessability, Police Patrols

* Security Alarm System - None

PHYSICAL PROTECTION (TENANT or OWNER/OCCUPANT):

* The exterior locks at this location are deadbolt, slide bolt
* The windows are not barred

This report section is designed to provide basic crime information only. More detailed crime information can be obtained by ordering an Expanded Crime Supplement.

M U L T I R I S K
R E M A R K S / R E C O M M E N D A T I O N S

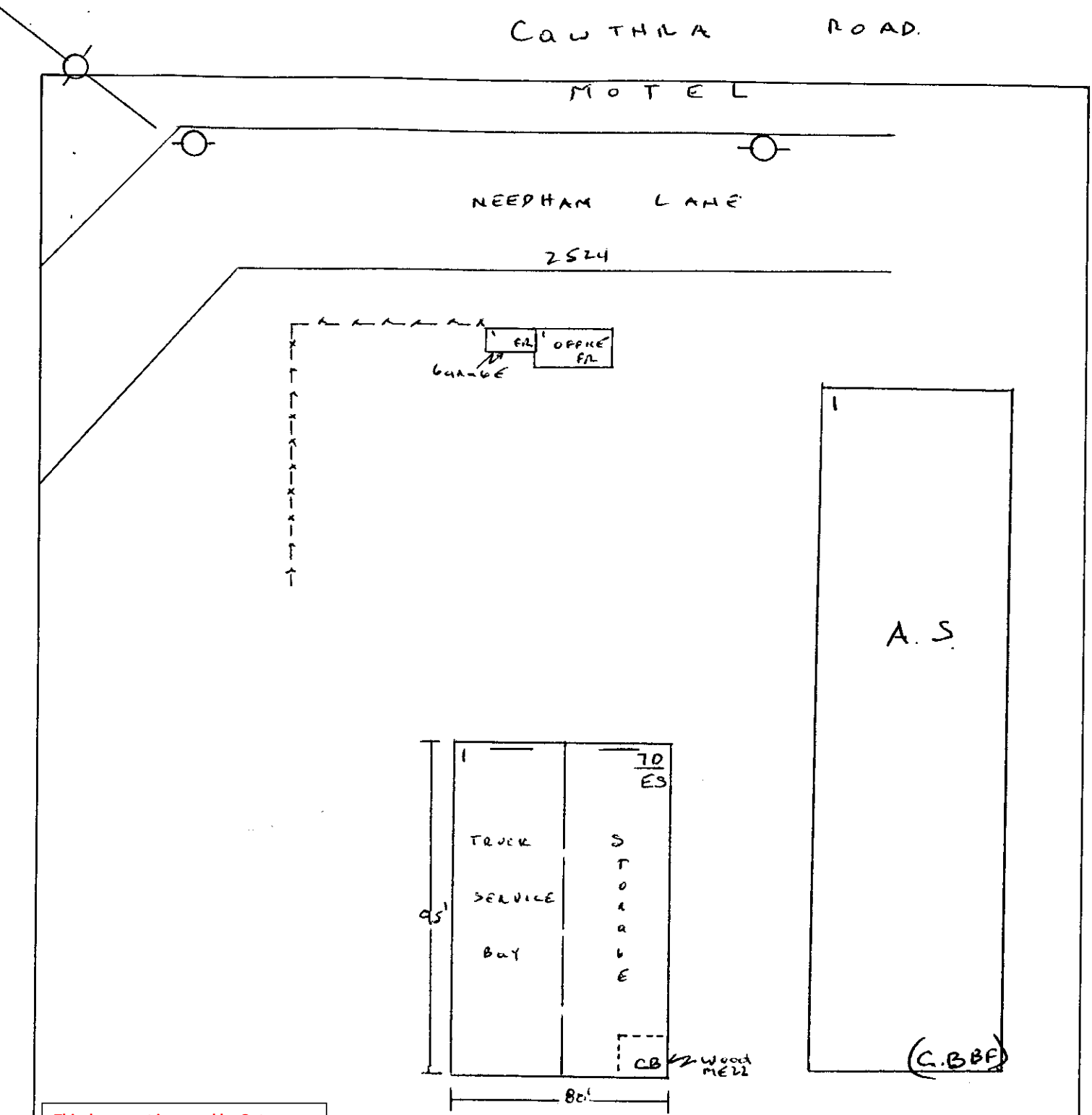
REMARKS:

* Fire, Liability & Basic Crime - This building is the truck repair garage with some minor storage. Most of the processes include oil and tire changes, tune ups, etc. Mostly hand tools are used in the process. It should be noted that the fire hydrant protection is non-standard due to the distance from this building to hydrants on Needham's Lane, however there is a hydrant behind the insured's building, on neighouring property. Also due to the rear location accessiblilty to the fire department may be slightly affected. Overall this building is in satisfactory condition and housekeeping considered average for this type of occupancy. Portable fire extinguishers are standard with updated service tags attached. The mezzanine is used for generaly storage of odds and ends and has a wooden stairway with no handrails. This is only a minor deficiency as the old people using this stair, are the employees. (Rec Made)

RECOMMENDATIONS:

* 97-1 Fire, Liability & Basic Crime - Consideration should be given to providing a sturdy handrail for the stairs used to access the mezzanine. This would help to reduce theinherent potential for falling accidents.

Siteplan Report - 1997 DICARLO DISPOSAL & PALLET CO. LTD. 2524 Cawthra Road Mississauga ON L5A2X3



INSURED: DiCarlo Disposal & Pallet Co, Ltd

LOCATION: 2524 Cawthra Road
Mississauga Ontario

SCALE: 1" = 50' 0" / 1cm = 6m FILE NO. MERCENTILE

Insurers' Advisory Organization Inc.

REPRESENTATIVE: P.C. Tomlinson

DATE: MARCH 19 1997

LCED.301.0796

Commercial Property Fire Inspection Survey Form Report - 1982 TRILLIUM SANDBLASTING LTD 2524 Cawthra Road Mississauga ON L5A2X3

INSURERS' ADVISORY ORGANIZATION OF CANADA

ONTARIO REGION

☑ Mercantile Risk
☐ Miscellaneous Risk

COMMERCIAL PROPERTY FIRE INSPECTION SURVEY FORM

(Use this form for all Non-Manufacturing risks, and some Manufacturing risks with five hands or less, of all construction, but excluding Sprinklered properties)

Address : No. 2524 Street/Road Etc.. CAWTHRA ROAD.

Municipality MISSISSAUGA (Formerly) _____

Owned by: TRILLIUM SANDBLASTING LTD Occupied by: THE SAME.

Age of building (Built in) 1962 : _____ : _____. Additions (Built in) _____ : _____ : _____ : _____ : _____.

Is building completely finished & out of workmens hands? Yes ☑; No ☐ IBC Code: Terr: 91 Ind: 55 Cons: 2 Prot: 2

BASIC CONSTRUCTION - (SECTION II)

- EXTERIOR WALLS:

(Refers to compass point direction of wall, i.e. North, South, East or West)

NSEW	NSEW	NSEW	NSEW	NSEW
☑ INDEPENDENT	☑ BEARING	☐ NON-BEARING	☐ PARTY	☐ PARAPET

(Describe material & thickness of all walls including make-up of combustible walls & any fire retardant impregnation. Also, check off appropriate wall supports below:)

HZ 250 mm

COLUMNS OF WOOD ☐; HEAVY WOOD (min. 150mm x 300mm) ☐; UNPROTECTED STEEL ☐; PROTECTED STEEL ☐. protected by N/A having a fire-resistance rating of _____ hrs.

PANELS of Non-Combustible material or GLASS ☑; COMBUSTIBLE ☐ (describe) G.G.S.J.

Wall: N. 5 %; S. 5 %; E. 5 %; W. 0 %

- FLOORS & ROOF: (Describe Floor & Roof Materials Including Thickness & Nature Of Supports)

Floor Level	% Aut. Spk. Sec	Fire Resistive & Masonry	Fire Res. in Hrs.	Non-Combustible	Combustible
Grade		200 mm hollow	2		
Roof					STEEL ON STEEL

COMBUSTIBLE FLR. on Lowest BASEMENT Level: Yes ☐; No ☐. If Yes, Describe & Give Percentage - _____

SECONDARY CONSTRUCTION - (SECTION III)

- HEIGHT: (Nbr.) 1 Storeys High; Basement: Yes ☐; No ☑. (Nbr.) ____ Combustible Storeys Without Ground Level Access.

- VERTICAL OPENINGS: Elevators ☐; Stairs ☐; Other ☐ (describe) _____.

(Describe Construction & Type of Enclosure (s) & Door (s) Fully)

Elv., S'way or Other	Nbr.	From:	To:	ENCLOSURE(S)	DOOR(S)
				NIL	

- AREA:

Basement :	____	x	____	; ____	x	____	= ____ m^2
1st. Floor :	21.36 m	x	15.24 m	; ____	x	____	= 325.55 m^2
2nd. Floor :	____	x	____	; ____	x	____	= ____ m^2
3rd(& Other):	____	x	____	; ____	x	____	= ____ m^2

EFFECTIVE AREA: 325.55 m^2

Separation Walls ☐ (describe) N/A. Total Area 325.55 m^2

- ROOF SURFACE: Non-Combustible ☐ (describe) METAL. Combustible ☐ (describe) _____.

Patent ( ). FALSE ROOF over Masonry or Fire Resistive Roof ( ) (describe) _____.

- COMBUSTIBLE CONCEALED SPACES: Combustible Space In Roof ☐, &/or Ceiling ☐. If In Roof, Is This An Attic ☐, Cut Off ☐, Shut Off ☐, With Access Limited By Trap(s)/Hatchway(s) ☐. In Proportion To Total Roof/Ceiling Area COMBUSTIBLE CONCEALED SPACE Comprises ____ % In ROOF &/or ____ % In CEILING. Describe N/A.

- continued -

- COMBUSTIBLE INTERIOR CONSTRUCTION: Floor Surfacing ☐ (describe & give % of total floor area affected) _____.
Partitions/Walls ☐ (describe & give % of total interior wall area) N/A.
Mezzanines/Decks ☐ (describe & give % of total area of floors & roof) _____.

- INTERIOR FINISH or INSULATION: (Specify Where SPECIAL DAMAGE Materials Are Used)

Specify FLOOR	TILE.					
Walls:	PLAS/W.					
Ceiling:	OPEN.					
Interior Partitions	—					
Smoke Developed	—					
Flame Spread	—					

Ordinary Damage Materials Attached To Fire Resistive or Non-Combustible Walls ☐ and/or Ceiling ☐.

- COMB. EXTERIOR ATTACHMENTS OR FINISH: Attachments ☐ Comprise Of (describe & give chargeable %) _____.
Finish ☐ Comprises Of (describe & give chargeable %) N/A.
Smoke Developed - 200 or Less ☐; Over 200 ☐; Flame Spread Rating _____.
None Of The Above ☐. Are Attachments/Finish Attached/Applied To Fire Resistive or Non-Comb., Walls or Roof? Yes ☐; No ☐.

- BUILDING CONDITION: Moderate ☐, Major ☐, Extreme Deficiencies ☐. Describe Sub-Standard Structural Conditions AVERAGE.

COMMON HAZARDS - (SECTION VII, Items 720-724)

- HEATING:
Building Heated? Yes (✓); No ☐. Borrowed Heat ☐. Describe Heating System Including Controls & Fuel Used: NATURAL GAS FIRED F.W.A CEILING MOUNTED UNIT HEATER.
Describe Chimney(s) & Deficiencies If Any: _____.

- ELECTRICAL: FUSES: Type "S" ☐; Type "C" & Rejector System ☐; Circuit Breakers (✓); ORDINARY ☐; Used Exclusively ☐.
Aluminum Wiring ☐; Rigid Conduit (✓); Other (✓) (describe) EMT. Open ☐.
Electrical Equipment Defects: None (✓); Minor ☐; Moderate ☐; Major ☐; Serious ☐. Describe Condition: _____.

- HOUSEKEEPING: See General Underwriting Comments Section (Page 3)

MUNICIPAL PROTECTION - (SECTION IX)

- FIRE DEPARTMENT: Risk Within 2.5 km Of Nearest Fire Hall? Yes (✓); No ☐. If No - State Distance To Fire Hall: _____km.

- HYDRANTS: Two Hydrants Within 155m of Risk? Yes ☐; No (✓). And All Parts Of Building Within 155m Of At Least One Hydrant? Yes (✓); No ☐. MAINS - 150mm ☐; 200mm (✓); 300mm ☐. Other (describe) _____.
Circulating (✓); and/or Dead End ☐ Mains. Describe Deficiency (if any): _____.

- ACCESSIBILITY: Risk Accessible At Least On One Side By Street 15m In Width? Yes (✓); No ☐. If No - Describe _____.

- CONGESTED AREA: Congested/Conflagration Hazard Prevails? Yes ☐; No (✓). If Yes, Describe Under General Underwriting Comments.

- PRIVATE PROTECTION: Is There Exclusive Private Protection ☐. Or Supplement To Municipal Protection ( ). Describe N/A.

INTERNAL PROTECTION - (SECTION XI)

- MANUAL FIRE FIGHTING EQUIPMENT: Standard (✓); Non-Standard ☐. (See Occupancy Section, page 3).

- WATCHMAN SERVICE: Standard ☐. Including Proprietary Supervision ☐. Including Central Station Supervisory Ser. ☐.
Describe: N/A.

- AUTOMATIC FIRE DETECTION SYSTEM: Full Protection ☐; Partial Protection (i.e. Minimum Requirements) ☐; Describe (& Attach Form No. 2184-6/80, for Automatic Fire Alarm Detection Systems, After Completion) N/A.

- PARTIAL AUTOMATIC SPRINKLER SYSTEMS: Acceptable Waterflow Alarm To Approved CENTRAL STATION ☐. No Such Alarm ☐. Total area Protected by Automatic Sprinklers Comprises _____ M^2.

- OTHER LIMITED AUTOMATIC FIRE PROTECTION SYSTEMS: (Other Than A.S.) Area Protected by: HALON ☐; CO_2 ☐; HIGH EXPANSION FOAM ☐; Other (describe) N/A, Comprises _____ m^2.

- continued -

- continued

COMMERCIAL PROPERTY FIRE INSPECTION SURVEY FORM
OCCUPANCY & SPECIAL HAZARDS - (SECTIONS IV, V, VI & VII)

- SEPARATED OCCUPANCY: Is There Any Occupant(s) Cut-Off VERTICALLY ☐ /HORIZONTALLY ☐? Yes ☐; No ☑.
If Yes - Such Occupant Occupies ______ m^2, Comprising ______ % Of The Total Floor Area;

Describe: ______________________________.

OCCUPANCY DETAILS: Indicate: 1) Business Name Of Each Tenant, 2) Special Hazards Including Process Operation(s) And Faults Of Management, 3) Number, Type and Location Of Manual Fire Fighting Equipment, 4) Any Other Exceptional Features Of The Risk Not Discussed Elsewhere, and 5) Any Vacant Section(s).

CIVIC NO.	FLOOR LEVEL	AREA (m^2)	IBC IND. CODE	
2524	Main	371.5	~~[illegible]~~ 551	TRILLIUM SAND BLASTING LIMITED:- FOUR HANDS ARE EMPLOYED IN THE REPAIRING OF TRUCKS & TRAILERS INCLUDING BODY WORK. SPRAY PAINTING IS CARRIED OUT IN A STANDARD SPRAY PAINTING ROOM, PROTECTED BY A CO2 SYSTEM. 3/2A-20BC + 2/2A-10BC EXTINGUISHERS.
				FLAMMABLE LIQUIDS:-
				TEN 22.7 L CONTAINERS OF REDUCER F.P. 24.4 C.
				FIFTEEN 22.7 L CONTAINERS OF THINNERS F.P. 23.3 °C
				THIRTY 4.5 L CONTAINERS OF PAINT F.P. 35 °C.
Total Floor Area		371.5	~~[illegible]~~ 551	← (Building Owner's Interest) - Continued on attached sheet ☐ -

GENERAL UNDERWRITING COMMENTS

- HOUSEKEEPING & MAINTENANCE: Excellent ☐; Good ☐; Average ☑; Poor ☐ (describe) ______________________________

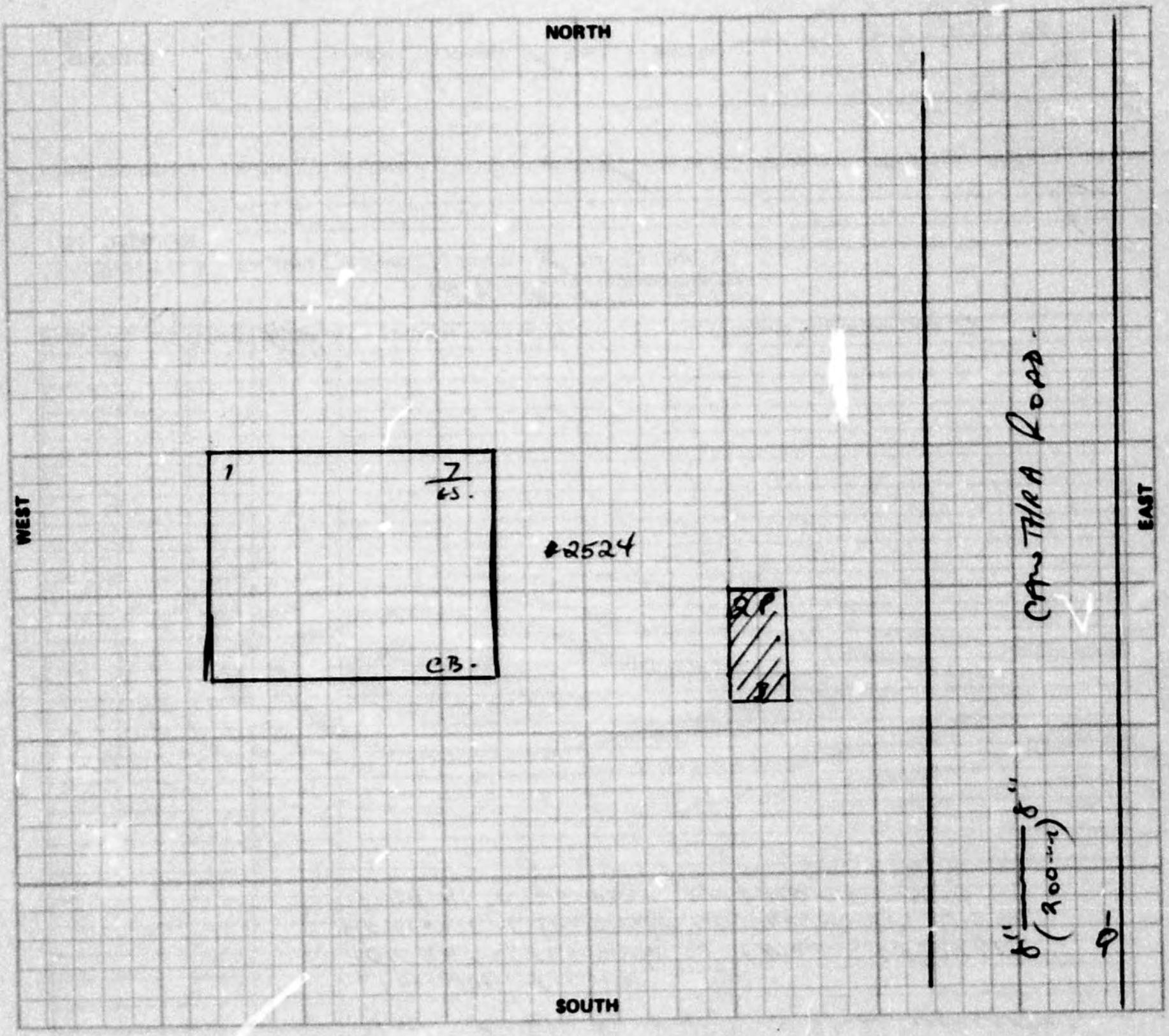
- NEIGHBOURHOOD: Isolated ☐; Residential ☐; Commercial ☑; Industrial ☐; Congested/Conflagration Hazard ☐ (describe) ______________________________

- OPINION OF RISK: Excellent ☐; Good ☐; Average ☑; Poor ☐ (describe) ______________________________

ONT. 2000c - 9/81

- continued -

DIAGRAM **IAO PLAN:** Sheet No. —; Block No. —; Plan No. ——; NOP ☑; Scale: 1cm = 6m ☐ 1cm = 12m ☐



EXPOSURE - (SECTION VIII)

WALL OF BUILDING BEING RATED					BETWEEN BLDGS.		FACING WALL OF EXPOSURE						
Direction	Blnk.	Comb. & Non-Comb	Msnry. Up	Msnry. Sp	Distance	Party Wall	Blnk.	Msnry. Sp	Msnry. Up	Non-Comb.	Comb.	Occ'y Haz.	Length / Height
NORTH	Clear												
SOUTH	Clear												
EAST			✓		24 ft				✓			2c	24 ft
WEST	Clear												

Requested by: Comm Mailer

Sig. Of Insp. Michael A Peart

Dt. 9.11.82 (Inspected) / 29-11-82 (Written Up)

Report Date: _____ (Dt. Request Recd. In IAO Service Office)

Revised By: _____

Dt. _____ / _____

ONT. 2000c - 9/81

Commercial Property Fire Rating Form Report - 1982 TRILLIUM SAND BLASTING LTD 2524 Cawthra Road Mississauga ON L5A2X3

COMMERCIAL PROPERTY FIRE RATING FORM

CODING			
IND.	TERR.	CONS.	PROT.
59	11	2	2

LOCATION Mississauga NAME Trillium Sand Blasting Ltd FILE NO. Merc

ADDRESS 2524 Cantera Road Insp'd. by M. Gesel Date 19/11/82

Rated by A. Jamieson Date 6/12/82

BASIC CONSTRUCTION: (SECTION II) Construction Class 2 Bldg. Comb. Class M3

WALLS (ITEMS 210-215)

WALL AREA	MASONRY Wall Type	MASONRY Wall Thick.	FIRE RES. Dam. Type	FIRE RES. Fire Res.	NON COMB	COMB	DETAIL OF WALL CONSTRUCTION	% OF WALL PERIM	POINTS	CHARGES
	W-1	250 mm	D-	HR			HCB	100 % x	0 =	—
	W-		D-	HR				% x	=	
	W-		D-	HR				% x	=	
	W-		D-	HR				% x	=	
	W-		D-	HR				% x	=	
								% x	=	
								% x	=	
								% x	=	

Columns in (or adjacent to) non-bearing masonry walls: Unprot. metal ☐ Comb. ☐

Panels in masonry or fire resistive walls: Comb. ☐ Non-comb. ☐ Glass ☐ Slow burning ☐

Special Conditions (Describe).....

FLOOR(S) AND ROOF (ITEMS 220-223)

LEVEL	DIMENSIONS	MAS. or F.R. Dam. Type	MAS. or F.R. Fire Res.	NON COMB	COMB	DETAILS OF FLOOR/ROOF MATERIALS	% of Total Floor/Roof Area	POINTS	CHARGES
Grade		D-1	½HR			Conc/Grade 200 mm+	50 % x	0 =	—
		D-	HR				% x	=	
		D-	HR				% x	=	
		D-	HR				% x	=	
Roof		D-	HR	✓		STEEL/STEEL Exposed	50 % x	17 =	85

Total Basic Construction Charges: 85

Schedule Base ..... + 150

Building Base ..... = 235

Building Base x 1.0 Comb. Modifier (ITEM 230) x .001 = **BASIC BUILDING RATE:** .235

(carried fwd. overleaf) •

SECONDARY CONSTRUCTION: (SECTION III)

	% CHARGE
Height: (ITEM 300) Nbr. Storeys 1 Basement NIL Comb. Stories (Without ground level access) NIL	—
Vertical Openings: (ITEM 310) Type / Fm / To / Enclosure / Doors / % Chge. 1st. + + — N/A	
Area: (ITEM 320) ____ x ____, ____ x ____, ____ x ____, ...	—
Grade Floor Area 371.55 m² Total Area 371.55 m² Effective Area 371.55 m²	
Roof Surface: (ITEM 330) Approved ☐ Other (Described)	
Combustible Concealed Spaces: (ITEM 340) Roof Space; Percentage of total roof area ____ %	
Ceiling Space; Percentage of total floor area ____ %	
Combustible Interior Construction: (ITEM 350)	
Floor Surfacing; Percentage of total floor area ____ %	
Interior Walls or Partitions; Percentage of total exterior wall area ____ %	
Mezzanines or Decks; Percentage of total floor/roof area ____ %	
Combustible Interior Finish or Insulation: (ITEM 360)	
Walls: Percentage of total area of exterior walls; Ord. Dam. ____ % Spec. Dam. ____ %	
Roof & Floor(s): Percentage of total area of ceilings; Ord. Dam. ____ % Spec. Dam. ____ %	
Combustible Exterior Finish or Attachments: (ITEM 370)	—
Building Condition: (ITEM 380) Good ☐; Average ☑; Poor ☐;	—
Total Secondary Construction Charges:	

(carried fwd. overleaf) ••

OCCUPANCY: (SECTION IV, V, VI & VII)

St. No. Floor	Floor Area	% of Total Area	Occ'y Item No.	Name and Description of Occupancy and Hazards	Basic Occ'y Charge	Hazard Charges	Sep'd. Occ'y Factor	Total Occ'y Charge	Comb. Cl.	Susc. Cl.	Ind. Code
Common Hazards Applicable to Building				N.C. CEILING UNIT HTRS.		3					
14	3714.55 m2	100%	50f d.	TRILLIUM SAND BLASTING LTD 4 BAYS REPAIRING TRUCKS & TRAILERS INCL BODY WORK	75		—		M3	S3	551
(730-21	3 C.1.(b) x 0.5	(710)=11)		SPRAY PAINTING IN STANDARD BOOTH, PROTECTED BY CO2 SYSTEM		11					
(730-2	C.4.(c))	→		227 L ADHESIVE Fl 29.4°C 360.5L) THINNERS Fl 23.3°C CIC 135 L) PAINT Fl 35°C CIC (3/BA-20BC & 2/BA-10BC EXTS)		24		110			
TOTAL									Building IND. CODE		551

Major Occupancy Charge (largest occupant, by area occupied) ..... 110 %
20% of — (next 10 highest additional Total Occupancy Charges) ..... — %
Common Hazards applicable to the Building ..... 3 %
Net Occupancy Charge ..... 113 %
L1, L2 Area 0 %
Net Occupancy Charge x N/A Occ'y Mod. Factor (ITEM 418) ..... = 113 %
**Total Secondary Construction Charge (brought forward from overleaf) ..... + — %

EXPOSURE: (SECTION VIII) Non Chargeable ☑

Facing Wall of Exposure						Facing Wall of Risk		Exposure Distance
Masonry Semi Prot.	Masonry Unprot.	Non-Comb.	Comb.	Comb. Cl.	Lth./Ht.	Comb. & Non-Comb.	Masonry Unprot.	

Exposure Charge ..... + — %
Party Wall Exposure Charge (ITEM 831) ..... + — %
Communication Charge (ITEM 832) ..... + — %
+ 100 %

• (brought forward from overleaf) BASIC BUILDING RATE .235 x 213 % = UNPROTECTED BLDG. RATE .501

MUNICIPAL PROTECTION: (SECTION IX)
F.U.S. Prot. Class 3 Revised Prot. Class 4
Dist. to Hydrants: Stdr. ☐ Non Stdr. ☑ .....m. Accessibility: Good ☑ Poor ☐
Dist. to Fire Hall: Stdr. ☑ Non Stdr. ☐ .....km. Congested Area: Yes ☐ No ☑
Unprotected Bldg. Rate x .47 Protection Class Factor ..... = PROTECTED BLDG. RATE .235

BUILDING ADJUSTMENT FACTOR: (SECTION X)
Protected Bldg. Rate x 1.06 Building Adjustment Factor ..... = GROSS BLDG. RATE .249

INTERNAL PROTECTION: (SECTION XI)
Extinguishers Stdr. ☑ 3 % Credit W. & C. Stdr. ☐ ____ % Credit
S.P. & H. Stdr. ☐ ____ % Credit Automatic Fire Detection System Stdr. ☐ ____ % Credit
Automatic Sprinklers ☐ (Describe) ..... ____ % Credit
Other Auto. Protection ☐ (Describe) ..... ____ % Credit
GROSS BLDG. RATE .249 Less 3 % = .242 Less ____ % = ____ Less ____ % =

RATES CAPPED ± 25%

FINAL BLDG. RATE .242

(2) INCL CHGE EXCESS FLAMMABLES

CONTENTS RATES (SECTION XII)

ITEM →	1200		1210		1220												
Ind. Code	Susc. Class	OCCUPANCY	Susc. Charge		Hazards Adj.		Conts. Adj. Factor		Adj. Conts. Charge		Gross Bldg. Rate		Gross Conts. Rate		Int. Prot. Factor		FINAL CONTS. RATE
551	S3	TRUCK REPAIR GARAGE	.400	x	1.35	x	.80	=	.432	+	.249	=	.681	x	.95	=	.647
				x		x		=		+		=		x		=	
				x		x		=		+		=		x		=	
				x		x		=		+		=		x		=	
				x		x		=		+		=		x		=	
				x		x		=		+		=		x		=	

6/11/82

Fire Inspection and Rate Calculation Form Report - 1975 2524 Cawthra Road Mississauga ON L5A2X3

IAO
ONTARIO BRANCH

PROPERTY DEPARTMENT
MERCANTILE DIVISION

1.

FIRE INSPECTION AND RATE CALCULATION FORM

(Use this form for risks of all construction (excluding fire resistive) rated from the Mercantile Masonry Schedule or the Mercantile Brick Veneer – Frame Schedule.)

LOCATION: MISSISSAUGA
ADDRESS: 2524 CANTARA ROAD.
(Formerly) .....
IAO PLAN – Sheet No.: ..... ; Block No.: ..... ; Plan No.: ..... ; NOP ☒; See Attached Diagram ☒

		Charges	Ded.
WALLS:	IND. ☒; PARTY ☐; B.B/H.B., S.CONC., HCB., H.T., B.V., R.C., M.C., AS.C., P.C., FR.	N/C	—
	EXPOSED WALL (NOT PARAPETTED) – L., R., F., B.		
	GLASS/METAL PANELS – L. ....%, R. ....%, F. ....%, B. ....%		
	STEEL (or ASBESTOS) on STEEL FRAMEWORK, etc., ...		
	MIXED CONSTRUCTION: Masonry ....%; Brick Veneer ....%; Metal or Rigid Asbestos clad ....%; Other ....%		
HEIGHT:	1 Storey(s); Basement: YES ☐ NO ☒	N/C	—
AREA:	BT. .... x ...., ... x ...., ... x .... = ... sq.ft.		
	1st. 80 x 100, ... x ...., ... x .... = 8000 sq.ft.		
	2nd. .... x ...., ... x ...., ... x .... = ... sq.ft.		
	3rd. .... x ...., ... x ...., ... x .... = ... sq.ft.		
	4th. .... x ...., ... x ...., ... x .... = ... sq.ft.		
	Total (All Floors) 8000 sq.ft.		
	FLOOR AREA CHARGE .02 ¢. less (Curtain Walls) .... %	.02	—
KEY RATE:	.55 ¢, (Total Principal Charges .02 – 0 (deductions) = .02 ¢ for determining Key Rate)	.55	
	Hydrant Deficiency YES 1-500' 8"	.02	
FOUNDATION:	MASONRY ENCLOSED ☒ CONCRETE PAD ☐ POSTS ☐		
ATTACHMENTS:	(Describe) NIL		
ACCESSIBILITY:	Fire fighting restricted by: REAR	.05	
ROOF:	Blind Space .... ft. Used for ....; Joist ☐; Other ☒ (Specify) [illegible]		
	Mansard: Left ☐, Right ☐, Front ☐, Back ☐;		
	Covering: Wood Shingles ☐; Tarpaper ☐; Patent ☒; Other ☒ (Specify) METAL N/C	—	—
ELECTRIC WIRING:	Used Exclusively – Type "S" Fuses ☐; Type "C" Fuses & Rejector System ☐; Circuit Breakers ☐; Ordinary Fuses ☒		
FLOORS:	Grade floor CONCRETE ☒, Basement: YES ☐, NO ☒; Steel Supports: YES ☐, NO ☐		.20
	Supporting Steel adequately protected: YES ☐ NO ☐;		
	Heavy Wood floor(s), with floor opening(s) protected – each floor ..... YES ☐ NO ☐		
EXPOSED STEEL:	COLUMNS & BEAMS – BT.Nbr. ....; 1st.Nbr. ....; 2nd.Nbr. ....; 3rd.Nbr. ....; 4th.Nbr.		
HEATING:	No heat ☐; Stoves ☐ Nbr. .... O.G.C.W.; Quebec Heaters ☐ Nbr. .... O.G.C.W.;		
	Furnace (Convection) ☐ Nbr. .... O.G.C.W.; Furnace (Forced Air) ☐ Nbr. .... O.G.C.W.;		
	Hot Water, Steam ☐ Nbr. .... O.G.C.W.; Fire Resistive Room YES ☐ NO ☐;		
	Suspended Ceiling Units ☒ Nbr. 1 O.C.;	.05	
	Electric Heating: Portable ☐, Permanently installed ☐;		
	Salamanders, Oil Drums, etc. (Describe)		
	Oil Burners – Listed YES ☐ NO ☐; Fuel Oil Tanks – Listed YES ☐ NO ☐		
CHIMNEYS:	SOLID BRICK FROM GROUND ☐ Nbr. ....; LISTED FACTORY BUILT ☒ Nbr. 1 N/C	—	—
	BRACKET ☐ Nbr. ...., Outside Bldg. ☐, Inside Bldg. Supported by floor or roof joists ☐;		
	METAL STACKS ☐ Nbr. ....; GAUGE STEEL .... Ins., FOUNDATION ....;		
	SMOKEPIPE DEFICIENCIES (Describe): ....;		
	STOVEPIPE CHIMNEYS ☐ Nbr. ....; CLAY, CEMENT & ASBESTOS PIPES ☐ Nbr. ....;		
	DEFICIENCIES (Describe):		
	SUB-TOTAL ..... (Carried forward)	69	20

– Continued –

(Total brought fwd.) .....

POWER: AIR CONDITIONING, COMPRESSORS, REFRIGERATION, 1/2 H.P. Sup'vd. ☐ Unsup'vd. ☒;
OTHER ELEC. MOTORS ....., H.P. MANUALLY CONTROLLED YES ☐ NO ☐;
PROCESS BOILERS ☐, Nbr. ..... O.G.C.W., CLEARANCE .....,
In Fire Resistive Room YES ☐ NO ☐ .....,
STACK ....., CLEARANCE .....

INTERIOR FINISH:

	BT.	1st.	2nd.	3rd.	4th.
WALLS		HCBN			
CEILINGS		SLTN			
PARTITIONS		GYP			

VERTICAL OPENINGS:
Masonry shafts with Class "B" self-closing doors – Nbr. N/A From N/A To N/A;
Self-closing trap doors ..... inches thick – Nbr. N/A From N/A To N/A;
Sub-standard shaft or doors with self-cloring doors – Nbr. N/A From N/A To N/A;
Other than above or open stairs – Nbr. ..... From ..... To .....;

INTERNAL PROTECTION:

	BT.	1st.	2nd.	3rd.	4th
Extinguishers		2-2½ 1A 10BC	INSUFFICIENT		NIC
Standpipe & Hose					

WATCHMAN & CLOCK: Standard ☐ Non-standard ☐ .....;
SPRINKLERED BASEMENT: YES ☐ NO ☐, Approved installation YES ☐ NO ☐;
AUTOMATIC FIRE DETECTION SYSTEM: Local ☐ or otherwise – state.....;
Partial Sprinkler System (in Hazardous areas): YES ☐ NO ☐ .....

ESTIMATE 40150

OCCUPANCY & PROCESS: Item # 15-2 AUTO REPAIR GARAGE
50% SPRAY PAINTING OCCASIONAL 50x50% =
50% OCASIONAL WELDING REPAIRING +10 +10

TENANTS & PROCESS: Item # NIL

FAULTS OF MANAGEMENT: EXCESS OF FLAMMABLE LIQUIDS FLASH POINT OVER 100° UNDER 135° GAL

EXPOSURE: NIL

Co-Insurance Credit: Bldg. 15 20 %; Contents 15 %. No. Co. Bldg. Rate →

Occ'y. Code	Construction & Protection Code: 2	Contents Extra	No. Co.	80% Co.	No. Co.	80% Co.	No. Co.	80% Co.
151	Building 1-B/HRB-P		144	122		1.501	84	67
151	AUTO REPAIR SHOP AND GARAGE STOCK	40	184	156		1.919	124	105
							84-21	
							105	
151	Machinery Furniture & Fixtures (Equipment)	20	164	139			104	88
	Dwelling Contents							
		Initial	ASU				OK	
Requested by SAFECO INSUR.	Report No.	Date	OCT 16/75				9	

Charges	Ded.
69	20
15	
	03
	02
—	—
40	
25	
20	
NIC	
169	36
25	
144	
144	

M. Table 1.23

estimate as truck service garage with minor repairs no spray
R. CRAWFORD – SAFECO.

2. OCCUPANCY & PROCESS

NAME OF RISK: (Most hazardous tenant) TRUCK REPAIR SHOP

LOCATION: (i.e. Municipal address) No. REAR OF 2524 CAWTHRA ROAD.
MISSISSAUGA

Sheet No. .....
Block No. .....
Plan No. .....
NOP ☒ See Diagram ☒

OCCUPANCY BY FLOOR: Indicate by "Business" name and also report briefly on:
(indicate any vacant section(s))
(i) Heating and location; (ii) Special hazards and processes if any; (iii) Location, number and type of extinguishers;
(iv) Any other exceptional feature of the risk, including heavy exposures.

Basement: NIL

1st. Floor: TRUCK REPAIR GARAGE WITH SPRAY PAINTING - SEE FORM
2 HG'S USING 100 GAL PAINT STORED IN IKEB 1515015 ROOF 3C CLASS A DOOR
OCCASIONAL WELDING
NO MAJOR TRUCK ENGINE REPAIRS

2nd. Floor: ~~X~~

3rd. Floor: ~~X~~

Other Floors: ~~X~~

3. GENERAL UNDERWRITING COMMENTS

(a) **HOUSEKEEPING & MAINTENANCE:** Excellent ☐; Good ☐; Average ☒; Poor ☐, (If so, describe): (see charges under Faults of Management ☐);

(b) **NEIGHBOURHOOD:** Residential ☒; Commercial ☐; Industrial ☒; Congested Area ☐, (If so, describe):

(c) **OPINION OF RISK:** Excellent ☐; Good ☐; Average ☒; Poor ☐, (If so, describe): Number of Fire Divisions .....; (show on Plan and indicate openings)

(d) **APPROXIMATE AGE OF BUILDING:** 10 years. Additions; none

4.

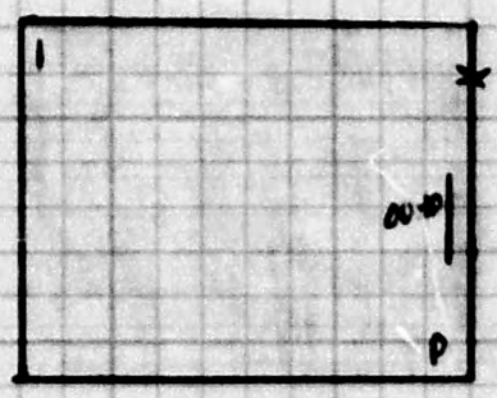
DIAGRAM

(Scale 1" = 50" ☒, or 1" = 100' ☐)

NORTH

WEST

EAST



#REAR 2524

CAWTHRA ROAD.

SOUTH

EXPOSURE: **Note** – These questions must be answered fully.

NORTH	–	ft. to building built of	–	–	stories high, occupied as		OPEN
SOUTH	–	" "	–	–	" "		OPEN
EAST	–	" "	–	–	" "		OPEN
WEST	–	" "	–	–	" "		OPEN

Requested by: SAFECO.

Signature of Inspector: [signature]

Date: OCT 16 19 75

Appendix C

City Directory Search Results

ENVIRONMENTAL RISK INFORMATION SERVICES

CITY DIRECTORY

Project Property: *2524 Cawthra Road, Mississauga, Ontario*
Report Type: *City Directory*
Order No: *22042501364*
Information Source: *Polk's Halton Peel Regions Ontario, Criss-Cross Directory (TRL)*
Date Completed: *May 10, 2022*

City Directory Information Source

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

PROJECT NUMBER: 22042501364	
Site Address:	2524 Cawthra Road, Mississauga, Ontario
Year: 2001	
Site Listing:	-Di Carlo Eugenio Disposal & Pallets CO LTD
Adjacent Properties:	
Cawthra Road (2425-2535)	2427-Tim Horton's Donuts 2440-Canadian Porcelain Products INC 2446-A-A Machining & Keys & Appliance SVC -Ali Foods -Aloumac Custom Welding LTD -Amcan Bearing Co -Beaverbrook Cabinets -Bob's Furniture Refinishing -Bryant Electric INC -Consolidated Salvage Co LTD -Deli Factory LTD -Dixie Cool Heat Co -E&A Image Trend -East India Co -Glenholme Printing -Haifa Import & Export

	-MIG INC -Mississauga Lawn Stork -Multi Scale Charge LTD -Northern Star Enterprises INC -Nustef Foods LTD -Mississauga Lawn Signs -Summar Foods LTD -Sunkim Industries LTD -Value Group INC 2455-734483 Ontario LTD -Ackland Appraisals -Al-Mughtarib Newspaper -Coming Generation -Commercial Plastics -Coulas Real Estate -David Cox Photography -Ettab Video -Furniture Exchange -Helen's Home Style -Kennedy Fabricating & Installations LTD -Maraca Canada INC -Marcon International -National Auto Parts -New Concepts Canada -Ontario District Sales OFC -QMP LTD -Renewable Office Concepts INC

	-Romlo Custom Tailor -Shamrock Petroleum Brothers LTD -Systelligence Systems INC -TFX-The Furniture Exchange -Ulrick Forest Products LTD -V&L Gifts -Wendy Passmore -Willard Meat Brokers LTD -Z Design Co 2465-Acoustic Design Group -Arnscott Electronics -ATK International -Canadian Safety Equipment INC -Canadian Wiping Cloth Co -Curwood Construction LTD -FS Logistics International -Feedback Promotions -Horizon International -Igomatt Industries -Jerusalem Fund For Human Services -Kol Computers -Lieber's Interiors -Marvic Machine Co -N Aes-North American Engineering SVC INC -Owen Tri-Cut LTD -Portlink Transport LTD -RMR SVC

	-S&K Enterprises Canada INC -Salco and Assoc -Shade Enterprises -Trans Orient Freight Forwarding INC -Triple Eagle Container Line LTD -TV SVC Station -Videohome -WBI-Business Interiors -Yustin Interiors LTD 2480-CC's Patio & Restaurant -Canadian Baker's Equipment -Cawthra Auto Center -Cawthra Meats Wholesale & Retail -Cooksville Tire LTD -Costa Produce LTD -Driverbit Tools LTD -Fernando Video Rentals & Sales -Garcia Meats -Garlic Intl -GBS Barbecues INC -Homes Development LTD -Primo Jardin -Rider Computer -Toste Wholesale Food Products -Value Printing LTD 2500-Arrival Inns 2524-Di Carlo Eugenio Disposal & Pallets Co LTD

	2531-Francesschini Bros Aggregates LTD
Dundas Street East (650-700 Even)	650-Lansing Build-All 700-ADS Driving School -Aimco Labour Lease INC -Construction Distribution & Supply -Creative Computerizing Accounting -Design 8000 Hair Styling School -Discounter's Warehouse -Wl Mundo Latino News -The Floor Shop -L&L Adjusting INC -Neale Insurance -Plumbing Mart -Rattan Furniture Center -Stone Consulting -Residential (2 Tenants)
560 Hensall Circle	-Address Not Listed
Needham Lane (All)	588-Lakshmi Mandir Hindu Maha Sabha 645-Hinspergers Poly Industries LTD 709-Ryder Integrated Logistics (CP Rail)
Tedlo Street (2475-2525)	2475-Quest Plastics LTD 2480-2nd Stage -Jason Sound

	-M&K Machine Co LTD -Westsun Toronto INC 2500-Banting Property Mgmt INC -Trans-Border Transport Consultants LTD 2525-Harwell Electric Supply Co LTD -Novacrete Technology INC -Novex Fibreforce/Novex Systems Intl LTD

PROJECT NUMBER: 22042501364	
Site Address:	2524 Cawthra Road, Mississauga, Ontario
Year: 1996	
Site Listing:	-Di Carlo Eugenio Disposal
Adjacent Properties:	
Cawthra Road (2425-2535)	2440-Clark Porcelain LTD 2446-A-A Machining & Keys & Appliance SVC -Aloumac Custom Welding LTD -Beaverbrook Cabinets -Bob's Furniture Refinishing -Bryant Electric INC -Colour Display Co LTD -Consolidated Salvage Co LTD -Cremona Foods LTD -Dynamic Sealing Devices LTD

	-E&A Image Trend -East India Co -Glenholme Printing -Herbalife INC -Hey's Intl -M&M Sales & Assoc -Muslim Investment Group INC -Nustef Foods LTD -Summar Foods LTD -Sunkim Industries LTD -Tasdeer Intl Holdings -Transmedia Graphics 2455-Continental Marking Products -Coulas Real Estate -David Cox Photography -Ettab Video -Helen's Home Style Foods -Mampay Screw Works LTD -Maraca Canada INC -MDB Mechanical Contractors -MNR Seals & Sales LTD -National Auto Parts -Netcomp Business Systems -New Concepts Canada -Printech Web & Sheetfed PTG -QMP LTD -Renewable Office Concepts INC

	-Rev Automotive Products -Romlo Custom Tailor -SR Taylor Enterprises -Southern Safety Equipment INC -Souvenirs & Coats of Arms -Trillium Photo SVC LTD -Ulrick Forest Products LTD -V&L Gifts -Willard Meat Brokers LTD 2465-Accomptax SVC -Arnscott Electronics -BGR Machinery Co LTD -Homecraft Interiors -JJD Consultants LTD ERY -Kare &Hope INC -Mallozzi & Assoc -Marvic Machine Co -Owen Tri-Cut LTD -Portlink Transport LTD -Salco & Assoc -Yustin Interiors LTD -111 Canadian Safety Equipment INC -Horizon International Elects -Kol Computer Systems -TV SVC Station -Trans Orient Freight Forwarding -120 Videohome

	-WBI Williams Business INTRS -Alfa Industrial Machinery 2480-A to Z Ceramics Astrogrpahic Printing -CC's Patio & Restaurant -Canadian Baker's Equipment -Cawthra Meats Wholesale & Retail -Cooksville Tire LTD -Costa Produce LTD -Fernando Video Rentals & Sales -Garcia Meats -GBS Barbecues INC -Homes Development LTD -CPA -Primo Jardin -Toste Wholesale Food Products -Value Group INC -Value Printing SVC -Residential (1 Tenant) 2500-Arrival Inns 2524-Di Carlo Eugenio Disposal 2531-Francesschini Bros Aggregates LTD
Dundas Street East (650-700 Even)	650-Lansing Build-All 700-Aimco Labour Lease INC -Allstate Insurance -Construction Distribution & Supply

	-Design 8000 Hair Styling School -The Floor Shop -GL Stone Enterprises -L&L Adjusting INC -Insurance Brokers -Cooney CPA -Neale Insurance -Plumbing Mart -Rattan Furniture Center -Residential (1 Tenant)
560 Hensall Circle	-Address Not Listed
Needham Lane (All)	645-Hinspergers Poly Industries LTD
Tedlo Street (2475-2525)	2475-CES Exhibits INC -Titan Wood Products LTD 2480-Firkon Industries LTD -M&K Machine Co LTD 2500-Gumpert's LTD 2510-Acme Chemicals LTD -Acme Industrial -Techswan INC 2525-Harwell Electric Supply Co LTD

Year: 1991	
Site Listing:	-Residential (1 Tenant)
Adjacent Properties:	
Cawthra Road (2425-2535)	2440-Clark Porcelain LTD 2446-Aloumac Custom Welding LTD -BEST Corp -Beaverbrook Cabinets -Bob's Furniture Refinishing -Bryant Engineering INC -Colour Display Co LTD -Consolidated Salvage Co LTD -Cressco Data INC -Custom Landscaping Shop -Dixie Cool Heat Co -Dixie Dell Meat Packers -Dryline Systems INC -Dynamic Sealing Devices LTD -East India Co -Glenholme Printing -Interface Solutions INC -Justin's Art Gallery -KJ Enterprise -Mississauga Floral Delivery

	-The Muffin People INC -Multi Scale Charge -Muslim Investment Group INC -No Dip Furniture Stripping -Nustef Foods LTD -Summar Foods LTD -Sunkim Industries LTD -Transmedia Graphics -Turbo Computer Systems -Wharton Way Caters 2455-Automotive & Heavy Equipment Mechanics Associated -Bestway Office Supplies -Bestway Office SVC -Installation SVC INC -Calderwood Web & Sheetfed Printing -Castleguard Security Systems -Commercial Plastics & Supply Corp -Continental Rubber Stamp Co -Comsearch Intl INC -Coulas Real Estate -Design Tech Graphic Design -Emergi Lite -Eriez of Canada LTD -Great Canadian Promotion Co -Gurneau Research Associates INC -Hybrid Screens INC -JW Fastener Products LTD

	-Key Tech Data Center -MNR Seals & Sales -M Upholstery Drapery & Garment Co -Mampay Screw Works -Market Development LTD -Media Banx Research Group INC -Menex Engineering LTD -National Tire Supply -Premier Knitwear -Pyrofax Intl -Revv Automobile Products -Robertson Douglas Intl INC -Romolo the Tailor -Souvenirs & Coats of Arms Unlimited INC -Taylor Enterprises -Tower Investments -Treasure Homes & Industrial Plazas -Ulrick Forest Products -Walach INC -Wendy Passmore 2465-Acoustic Design Group INC -Arnscott Electronics -BGR Machining Co LTD -Canadian Medical Supply -Desktop Tech -Details Unlimited INC -Horizon Travels & Tours

	-Imperial Property Mgmt -Location Photography -MDB Mechanical -Marvic Machine Co -Mini Metal SVC INC -Nu World Dynamic -Insurance Agencies INC -Owen Tri Cut -PM Management SVC -Salco and Assoc -Ted Roach Advertising Distributing Enterprises Lt -Trans Orient Express INC -Videohome -WBI -Westel & Cziraky -Yustin Interiors LTD 2480-A to Z Ceramics -Astrogrpahic Printing -Combustion instruments LTD -Cooksville Tire LTD -De Turse Studios -Delamere Williams Co -Dominion Saw LTD -Driverbit Tools LTD -Engsol Corp -Garcias & Luis LTD -Industrial Plastics Fabricators

	-Irish Eyes Pub and Eatery -K Flex Systems -Knight Shipping & Mailing -Kodi PE Graphic Systems -Lumark Custom Sheet Metal LTD -Multi Shelf -Newco Foods -Nordtech INC -PL Studio -Primo Jardin -Prolar Food Products -Scott Enterprises -Sheth Trading Co -Shooting Chrony INC -Spend Less INC -Wholesale Cash & Carry Janitorial -Tracom LTD -Value Printing SVC -Water Loss Survey Group INC 2500-Galtcam Construction INC 2531-Francesschini Bros Aggregates LTD
Dundas Street East (650-700 Even)	650-Lansing Build-All 700-Almco Labour Lease INC -Brasstique Sleep Shoppes -Chiu Bros Co LTD -Chartered Accountant

	-Deck N Den -GL Stone Enterprises -Insurance Broker LTD -L&L Adjusting INC -Icuc Local 121 -Neale Insurance -Plumbing Mart -Sincere Driving School -Taylor Shay Agencies -Realty Office
560 Hensall Circle	-Address Not Listed
Needham Lane (All)	**-Cooksville Rail Transfer 588-Classic Marble Fireplaces INC -TG5 Forming LTD -Residential (1 Tenant) 645-Hinspergers Poly Industries LTD
Tedlo Street (2475-2525)	2475-Regent Leisure 2480-Firkon Industries LTD -M&K Machine Co LTD 2485-Glenora Crafts LTD 2500-Gumpert's LTD 2510-Acme Chemicals LTD -Continental Royal Appliances INC 2525-Harwell Electric Supply Co LTD

	-Brad Hall & Co LTD

PROJECT NUMBER: 22042501364	
Site Address:	2524 Cawthra Road, Mississauga, Ontario
Year: 1986	
Site Listing:	-Trillum Sandblasting LTD -Residential (2 Tenants)
Adjacent Properties:	
Cawthra Road (2425-2535)	2440-Clark Porcelain LTD 2446-Aloumac Custom Welding LTD -BEST Corp -Beaverbrook Cabinets -Bayfield marketing Co LTD -Canadian Food Corp -Colour Display Co LTD -Complete Mobile Trailer SVC -East India Co -Glenholme Printing -Jacob's Well Church Supplies LTD -Mircon Fluid -Novak Hydraulics LTD -Planet Electric Co LTD -Prince Sweets Restaurant

	-Provincial Drapery Mfg LTD -Shoufani Group -Silcom Consultants LTD -Sunkin Industries LTD -Transmedia Graphics -VA Mechanical Systems LTD -Von Peter -Wharton Way Caterers 2455-Babel Invesment Co -Bonni Kaester Real Estate -Canadian Plastics & Rubber Machinery LTD -Centrad Corp -Chaar Mfg Commercial Plastic & Supply Corp -Curran Valve Supply LTD -Delaney Personnel Servs -Eriz of Canada LTD -Geminy Machine & Tool Co -Independent Child Care -MNR Seals & Sales LTD -MR Salvage LTD -Mampay Screw Works LTD -Monarch Industries LTD -Murphys Consultants -Douglas Intl INC -Romlo Custom Tailoring -Trillium Photo SVC -Waller J Contracting

	-West Park Marketing INC -World Movers INC 2465-BGR Machining Co LTD -CL Power SVC INC -Cambrian Engineering Group LTD -FM Travel -Homecraft Interiors -Horizon Travel & Tours -Horizon International Electronics LTD -MDR Telemanagement -Marvic Machine Co -Mini-Metal SVC LTD -Owen Tri-Cut LTD -PM Mgmt -Right Season Renovations -Salco and Associates -Soot Busters -Speelman Consultant Geologist -TV SVC Station -Ted Roach Advertising -Telcost LTD -Williams Business Interiors 2480-Advanced Roofing LTD -Book G & Co -Combustion Instruments LTD -Continental Food Products -Dominion Saw Sales & Service

	-Dominion Spring Industries LTD -Economation Equipment LTD -Francis De Turse Enterprises LTD -Harvey's Tire Center -Industrial Plastics Fabricators -K&G Machinery Works LTD -Knight Shipping & Mailing -Laird & Crawford Appliances & Air Conditioning -Modart Leather Goods -North American Feed Screws LTD -Tall Ship Restaurant -Tidy Home SVC -Walcam industrial Installation -Weston Drywall LTD 2524-Trillium Sandblasting -Residential (2 Tenants) 2526-Crestline Auto Body 2531-Francesschini Bros Aggregates LTD
Dundas Street East (650-700 Even)	650-Lansing Build-All 680-Realty Services INC 700-Alexis Modeling Center -Allstate Insurance -Brasstique Sleep Shops -Canadian Swimming Pool Design Associates -Chiu Bros LTD -Chartered Accountant

	-Pack-Rat Warehouse -Peel Sheridan Dufferin Educ Credit Union LTD -Stone Enterprises
560 Hensall Circle	-Address Not Listed
Needham Lane (All)	**-Cooksville Rail Transfer 588-Markland Roofing 645-Hinspergers Poly Industries LTD 2528-Truckit Transport INC -Residential (1 Tenant) 8595-Residential (1 Tenant)
Tedlo Street (2475-2525)	2475-Steelcase Canada LTD 2480-Firkon Industries LTD -M&K Machine Co LTD 2485-Glenora Crafts LTD 2500-Gumpert's LTD

PROJECT NUMBER: 22042501364	
Site Address:	2524 Cawthra Road, Mississauga, Ontario
Year: 1981	
Site Listing:	-Great Lake Lines -Lens Crane Rentals -Sandblasting LTD

	-Residential (1 Tenant)
Adjacent Properties:	
Cawthra Road (2425-2535)	2440-Broome Porcelain LTD 2446-Aloumac Custom Welding LTD -Beaverbrook Cabinets -Carefree home Products LTD -Certified Pump SVC -Colour Display Co -Delease Canada LTD -Die Cut Containers -Glenhome Printing -Hartel E INC -Hieco Machinery Engineering -Indeka Imports -International Hydraulics Co -Mississauga Refinishing & Cabinet Making -Novak Hydraulics LTD -Pharmaport INC -Polygon Machine & Tool LTD -Reftech LTD -Sunkim Industries LTD -Trans Media Graphics -United Vacuum Cleaner LTD -United Vacuum Clinic -VA Machanical Systems LTD

	-ZH Hydraulics LTD 2455-Abf Freight Systems -Alfa Tool & Die Co -Canadian Frozen Foods -Curran Valve Supply LTD -Dominion Dadon LTD -Eriz of Canada LRD -Goodall Lino Supply LTD -Real Estate Agent -Lander Clothier LTD -M&T Chemicals LTD -N&N Optical -The Printing Shack -Raven Developments -Roberston Intl INC -Sabro Consultants INC -Ted Roach Advertising Distributing Enterprises LTD -Upper Canada Soap & Candle Makers -West Universal Machine & Tool Co 2465-Agda Alarms & Built-In Systmes -Anthes Equipment LTD -Atlas Forming and Shoring Systems LTD -BGR Machining Co LTD -Cambrian Engineering Group LTD -Kent-Moore of Canada LTD -Leco Instruments LTD -FM Travel

	-Marvic Machine Co -Mentec Industrial Equipment LTD -Mini-Metal SVC LTD -Owen Tri-Cut LTD -TV SVC Station -Tricot Mouna -Williams Business Interiors 2480-Auscan Industries LTD -Combustion Instruments LTD -Dilwol Wire & Cable INC -Dip N'Strip -Dominion Saw Sales & SVC LTD -Foamac of Canada -Gerdon LTD -Halton Leasing -K&G Machinery Works LTD -North American Feed Screws LTD -Serenco LTD -Steeplejack SVC LTD -Stillman Appliances SVC -Walcam Tools LTD -Weston Drywall 2524-Great Lake Lines -Lens Crane Rentals LTD -Sandblasting Unlimited -Residential (1 Tenant) 2526-Crestline Auto Body

	2531-Francesschini Bros Aggregates LTD
Dundas Street East (650-700 Even)	-Street Not Listed
560 Hensall Circle	-Address Not Listed
Needham Lane (All)	588-Residential (1 Tenant)
Tedlo Street (2475-2525)	-No Listings Within Radius

PROJECT NUMBER: 22042501364	
Site Address:	2524 Cawthra Road, Mississauga, Ontario
Year: 1976	
Site Listing:	-Great Lake Lines -Residential (1 Tenant)
Adjacent Properties:	
Cawthra Road (2425-2535)	2440-Broome Porcelain LTD 2446-Boat Seast Mfg -Canada Plastics 7 Rubber Machinery LTD -Cantrols Equipment LTD -Carefree Home Products LTD -Charles Massey & Co LTD -Colour Display Co LTD

	-Indeka Intl LTD -MK&H Offset SVC LTD -M Three Associates LTD -Micro Chemicals LTD -New Trend Mfg LTD -Planet Electric -Polygon Machine & Tool LTD -Toronto Ostomy Supply -United Vacuum Cleaners LTD -VA Mechanical Systems LTD -Webster Instruments LTD 2455-Alex Feed Screws Mfg Co -Abf Freight Systems -Bar-Well Foods LTD -Brillinger Warehouse & Distribution Co -Capella Chemicals -Curran Valve Supply -Dominion Dadon LTD -Dominion Plant Maintenance -Eriez of Canada LTD -Filter Queen Corp LTD -Mini-Metal SVC LTD -N&N Optical LTD -Sandhu Corp -Port Processing LTD -Scott Education -T$ Truck Lease

	-Towns LA Automotive -Upper Canada Soap & Candle Makers -Real Estate Office 2465-Agda Alarms Electronics LTD -Anthes Equipment LTD -Atlas Forming and Shoring Systems LTD -Archar INC -Burla Acoustics & Dry Wall -Cambrian Engineering Group LTD -Channel Engineering & Machining Co -Grenel Interiors -Kent-Moore of Canada LTD -King & Martin Machine Co -Leco Instruments LTD -Owen Tri-Cut LTD -Pine Ridge Pottery -Proton Products LTD -Ted Roach Advertising Dist Enterprises LTD -Tote Premuim Co -Williams Business Interiors 2480-Atlantic Candy Mfg -Bel-Tronics LTD -British Driver Harris Co -Burnhamthorpe Automotive -Certified Pump SVC -Charter Importing of Canada -Chimera of Canada

	-Combustion Instruments LTD -Criocraft Mfg LTD -Die Cut Containers LTD -Dilwol Wire & Cable -Flying High Costume Rental -Garrett Printing LTD -Jayson Slaes Co -K&G Machinery Works LTD -McClintok LTD -Miley Trailer Sales -Nobel Sales Corp -Skinner Brokerage LTD -Slack James -Surf Chemical Co -Voorheis Industries Canada -Weston Drywall 2492-Residential (1 Tenant) 2524-Great Lake Lines -Residential (1 Tenant) 2526-Crestline Auto Body 2531-Francesschini Bros Aggregates LTD 2534-Residential (1 Tenant)
Dundas Street East (650-700 Even)	-Not Listing Within Radius
560 Hensall Circle	-Address Not Listed

Needham Lane (All)	588-Residential (1 Tenant) 595-Residential (1 Tenant)
Tedlo Street (2475-2525)	-Street Not Listed

PROJECT NUMBER: 22042501364	
Site Address:	2524 Cawthra Road, Mississauga, Ontario
Year: 1971-1972	
Site Listing:	-Hank's Rentals Sales & Warehouse -Residential (2 Tenants)
Adjacent Properties:	
Cawthra Road (2425-2535)	2440-Broome Porcelain LTD 2446-Central Transport -Central Truck Lines -Mckevitt Trucking LTD 2465-Residential (1 Tenant) 2480-Bel-Tronics LTD -Bimack Importing LTD -Bunston Construction Co -Driver Harris Co -Skinner Brokerage LTD -United Fiberglass 2524-Hank's Rentals Sales & Warehouse

	-Residential (2 Tenants) 2526-Crestline Auto Body 2531-Francesschini Bros Aggregates LTD 2534-Residential (2 Tenants)
Dundas Street East (650-700 Even)	656-Residential (2 Tenants)
560 Hensall Circle	-Address Not Listed
Needham Lane (All)	588-Residential (1 Tenant) 595-Residential (1 Tenant) 621-Residential (1 Tenant)
Tedlo Street (2475-2525)	-Street Not Listed

PROJECT NUMBER: 22042501364	
Site Address:	2524 Cawthra Road, Mississauga, Ontario
Year: 1966	
Site Listing:	-Great Lakes Mach Installations
Adjacent Properties:	
Cawthra Road (2425-2535)	2440-Broome Porcelain LTD 2446-Central Transport -Central Truck Lines

	2480-Residential (1 Tenant) 2524-Great Lakes Mach Installations 2526-Crestline Auto Body 2534-Residential (1 Tenant)
Dundas Street East (650-700 Even)	656-Residential (1 Tenant) 666-Residential (1 Tenant) 680-Gravelly T G+Co
560 Hensall Circle	-Address Not Listed
Needham Lane (All)	588-Residential (1 Tenant) 595-Residential (1 Tenant) 621-Residential (1 Tenant) 640-Residential (1 Tenant)
Tedlo Street (2475-2525)	-Street Not Listed

*****Mississauga is listed from 2001 to 1966 within the Toronto Reference Library*****

-All listings for businesses were listed as they are in the city directory.

-Listings that are residential are listed as “residential” with the number of tenants. The name of the residential tenant is not listed in the above city directory.

Appendix D

Regulatory Information (including Spill Report)

Bernard Hau

From: Public Information Services <publicinformationservices@tssa.org>
Sent: Tuesday, July 26, 2022 3:21 PM
To: Bernard Hau
Subject: RE: Tank Record Request - 2524 Cawthra Road, Mississauga

Please refrain from sending documents to head office. The Public Information (PI) team works remotely, mailing in applications will lengthen the overall processing time.

NO RECORD FOUND IN CURRENT DATABASE

Hello,

Thank you for your request for confirmation of public information. TSSA has performed a preliminary search of TSSA's current database.

- We confirm that there are no records in our current database of any fuel storage tanks at the subject address(es).

This is not a confirmation that there are no records in the archives. For a further search in our archives, please submit an application for release of public information (PI Form) through TSSA's new Service Prepayment Portal. The associated fee must be paid via credit card (Visa or MasterCard) through a secure site.

Please follow the steps below to access the new application(s) and Service Prepayment Portal:

1. Click Release of Public Information - TSSA and click "need a copy of a document";
2. Select the appropriate application, download it and complete it in full; and
3. Proceed to page 3 of the application and click the link TSSA Service Prepayment Portal under payment options (the link will take you the secure site to pay for the release via credit card).

Accessing the Service Prepayment Portal:

1. Select new or existing customer (*if you are an existing customer, you will need your account # & postal code to access your account);
2. Select the program area: AD (Amusement Devices), BPV (Boilers and Pressure Vessels), ED (Elevating Devices), FS (Fuels Services), OE (Operating Engineers) or SKI (Ski Lifts) and click continue;
3. Enter the application form number (obtained from bottom left corner of application form) and click continue; When selecting the application form number from the drop-down menu, please make sure you select the application that begins with "PI" (i.e. PI-FS, PI-BPV etc.);
4. Complete the primary contact information section;
5. Complete the fees section;
6. Upload your completed application; and
7. Upload supporting documents (if required) and click continue.

Once all steps have been successfully completed, you will receive your receipt via email.
Questions? Please contact TSSA's Public Information Release team at publicinformationservices@tssa.org.
Although TSSA believes the information provided pursuant to your request is accurate, please note that TSSA does not warrant this information in any way whatsoever.

Kind Regards,
Sherees

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

From: Bernard Hau <Bernard.Hau@ghd.com>
Sent: July 26, 2022 1:21 PM
To: Public Information Services <publicinformationservices@tssa.org>
Cc: Brendan Llew-Williams <Brendan.Llew-Williams@ghd.com>
Subject: Tank Record Request - 2524 Cawthra Road, Mississauga

Good afternoon,

Can you perform a tank record search for the following properties:

- 2524 Cawthra Road, Mississauga

Thanks!

Bernard Hau (he/him)
MEnvSc, P.Geo., C.E.T.
Environmental Geoscientist, Project Manager

GHD
Proudly employee owned | ghd.com
111 Brunel Road Suite 200, Mississauga, ON L4X 1Z3
P: 905 712 0514 **C:** 416 795 6958 **E:** bernard.hau@ghd.com

The Power of Commitment
Connect

Region of Peel
working with you

Public Works

3515 Wolfedale Rd.
Mississauga, ON
L5C 1V8
tel: 905-791-7800

peelregion.ca

May 25, 2022
File: WP PA-02.02

City of Mississauga - City Manager's Office
300 City Centre Drive
Mississauga, ONT L5K 2T4

ATTENTION: Joyce Tam

Dear Miss Tam:

SUBJECT: 2524 Cawthra Road, Mississauga
Your File: PO.10-22.03

The Environmental Control Section, Wastewater Division, Public Works Department, Regional Municipality of Peel is responsible for the enforcement of Wastewater Bylaw 53-2010.

We have reviewed our records with regards to the above property and find that we do not have a record of any violations, infractions or outstanding orders under Wastewater Bylaw 53-2010 and the former Sewer Use By-laws 90-90 and 9-75.

There is one (1) spill event for the above property listed in our files, copy enclosed.

For information pertaining to Backflow Prevention (By-law 10-2017), please contact Claudio Spagnuolo, Backflow Prevention Specialist, Region of Peel (905-791-7800, Ext. 8546).

For information pertaining to waste disposal sites within the Region of Peel, a copy of this request is being forwarded to David Bruno of the Infrastructure, Waste Management, david.bruno@peelregion.ca. You can also contact the Ministry of the Environment Halton/Peel district office (1-800-335-5906 or 416-540-8648) for more information.

For information pertaining to drains, sewers and water connections within the Region of Peel, a copy of this request is being forwarded to Bernadette Sniatenchuk, acting Manager of Servicing Connections, bernadette.sniatenchuk@peelregion.ca, (905-791-7800 ext. 8589).

For information pertaining to storm water By-law issues, please contact City of Mississauga's Environmental Project Coordinator (Vicky Wei) at email address vicky.wei@mississauga.ca or mailing address 201 City Centre Drive, 8th Floor, Mississauga Ontario, L5B 2T4, (905-615-3200 ext. 3017). Please note an additional fee of $153.47 plus HST ($173.42) per location is required; Payment can be made to the City of Mississauga's Transportation & Works Customer Service Counter at 3185 Mavis Rd, 1st Floor, Mississauga Ontario, L5C 1T7 in person by certified cheque or by bank draft made payable to "City of Mississauga". If you wish to pay over the phone by credit card, please call 905-615-3200 ext. 3347. Please ensure you have the reference number available, i.e., subject property address, project number etc.

...1/2

Region of Peel
working with you

Public Works

3515 Wolfedale Rd.
Mississauga, ON
L5C 1V8
tel: 905-791-7800

peelregion.ca

Although a careful review of the records in the custody of the Environmental Control Section has been conducted in response to your request, the Region of Peel makes no warranties or representations, express or implied, concerning the accuracy, reliability or completeness of the information contained in this letter. All information from these records is being provided on an "as is" basis, and the responsibility for any consequences of using the information for any purpose whatsoever rests with the person who has requested it.

If you have any questions, please feel free to contact our office at zzg-environmentalcontrol@peelregion.ca.

Yours truly,

Bill Ford
Inspector
Environmental Control Section
Wastewater Division
Public Works Department

BF/cs

cc: David Bruno, Infrastructure, Waste Management, Regional Municipality of Peel

Vicky Wei, Storm water By-law, City of Mississauga

Bernadette Sniatenchuk, acting Manager of Servicing Connections

Region of Peel

Waste Management

Complaint/Spill Report

Occurrence Report C93-010

Reported By	Tel	Yr.	Mo.	Day	Time
Keith Oliver	( ) 275-3800	93	02	10	3 : 30 pm

Address: Mississauga Fire Dept.

Postal Code

[X] Spill [ ] Complaint

Location: 2524 Cawthra Road

Source of Contaminant: Burning Rubber in a 40 yard lugger box

Material Spilled: Oily water run-off

Quantity: Approx. 5,000 gallons

Owner of Pollutant: Eugenio Di Cargo, E. Di Carlo Disposal & Pallet Company Ltd.

2524 Cawthra Road, Mississauga, Ontario L5A 2X3 — Telephone ( ) 270-8333

Controller of Pollutant: Same as above

Telephone ( )

Investigated By	Yr.	Mo.	Day	Time
Tony Di Cristofaro	93	02	10	3 : 30 pm

Investigation/Action Taken/Status

Mississauga Fire Dept. responded to a rubber fire in a 40 yard lugger box. The water used to fight the fire caused an oily run-off. This run-off flowed into the garage where it was all contained. Accurate Waste Disposal was then called in to vacuum the waste water.

ENTERED JAN 1 1 1994

V-12-116 92/05

original given to Defence

Agencies Notified:

[X] Police [X] Fire [X] MOE [ ] Other(specify) _____

Billing:

Required [X] Yes [ ] No **To:** [X] Owner [ ] Controller

Man Hours 1 (Reg) 4.5 (O/T) Van Mileage 20 km

Van Hours 5.5 Non-Van Mileage _____

Regional Materials and Services: _____

Will billing be made to Region from outside agency (ies)? [X] Yes [ ] No If yes, give details: Mississauga Fire Dept.

invoice to follow.

Clean-Up/Disposal:

By: [ ] Owner [ ] Carrier [ ] Region [X] Other (specify) Accurate Waste Disposal

How Disposed: Waste water - licenced liquid waste hauler

MOE Approval (For Region Ordered Work Only)

Given By _____ Branch _____

Emergency # _____ Date _____

Restoration:

Restoration Required [ ] No [ ] Yes (specify) _____

Restoration to be performed by: _____

Additional Remarks/Follow-Up

Report Prepared By:

Name: Tony Di Cristofaro

Title: Inspector, WWPC

Date: February 11/1993

Ontario

Ministry of the Environment, Conservation and Parks

Freedom of Information Request for Property Information

Instructions

Use this form to:

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

Fields marked with an asterisk (*) are mandatory.

Are you: *

☑ Submitting a new FOI Request for Property Information

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

Section 1 – Description of Records Requested

Time Period for Records Requested

From (yyyy/mm/dd) * 1878/01/01

To (yyyy/mm/dd) * 2022/07/27

Type of Record(s) *

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

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

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

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

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

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

☐ Other Specific Document(s)

Type of Approval/Registration *

☑ Drinking Water Licenses

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

☑ Pesticide Licenses

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

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

☑ Permits to Take Water

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

Water Source *

☑ Groundwater ☑ Surface Water

☑ Noise Vibrations Approvals/Registrations

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

☑ Air Emissions Approvals/Registrations

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

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

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

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

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

☑ Waste Water - Industrial discharge

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

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

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

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

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

Company Name

☑ Waste Generator Registration - number/class

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

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

Section 2 – Requester Information

Last Name * McMahon

First Name * Chanel

Middle Initial N

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

Project/Reference Number (if applicable)

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

☑ Yes ☐ No

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

Name of Client

Last Name * MacDonald

First Name * Katrina

Business/Organization Name (if applicable or indicate "N/A") * The Corporation of the City of Mississauga

Mailing Address

Unit Number 302

Street Number * 184

Street Name * Front Street East

PO Box

City/Town * Toronto

Province * ON

Postal Code * M5A 4N3

Telephone Number * 416-866-2353

ext.

Email Address * chanel.mcmahon@ghd.com

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

☐ Yes ☑ No

Section 3 – Current Property Address Information

Is the property a:

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

Are you requesting information about multiple addresses? *

☐ Yes ☑ No

Property Address

Unit Number

Street Number 2524

Street Name Cawthra Road

Full Lot Number

Concession

Geographic Township

City/Town/Village * Mississauga

Closest Intersection Cawthra Road and Needham Lane

Section 4 – Previous Property Address Information

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

☐ Yes ☑ No

Section 5 – Owner Information

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

Current Property Owner/Tenant

2524 Cawthra Road
Mississauga

Owner Name: Migus Autowork Limited

Date of Ownership (yyyy/mm/dd): 2009/01/01

Tenant Name:

Section 6 – Supporting Documents

Please attach an authorization/consent form.

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

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

1. File Name: 2524 Cawthra Road Site Location.pdf

Total File Size: 0.44 MB

Payment confirmation number: 24002157

Appendix E

Historical Aerial Photographs

0 25 50 75m

1:2500

Coordinate System:
UTM with NAD83 datum, Zone 17, Meter

GHD

THE CORPORATION OF THE CITY OF MISSISSAUGA
2524 CAWTHRA ROAD, MISSISSAUGA, ONTARIO
PHASE ONE ENVIRONMENTAL SITE ASSESSMENT

1954 AERIAL PHOTOGRAPH

Project No. **12581540**
Date **May 2022**

Filename: \\ghdnet\ghd\CA\Mississauga\Projects\662\12581540\Digital_Design\ACAD\Figures\RPT-PhaseONE_ESA\12581540-GHD-00-00-RPT-EN-D104_WA-001-PhaseONE_ESA.dwg
Plot Date: 25 May 2022 9:43 AM

Data Source: Mississauga Maps portion of the City of Mississauga website (http://www6.mississauga.ca/missmaps/#searchAddr).

0 25 50 75m

1:2500

Coordinate System:
UTM with NAD83 datum, Zone 17, Meter

N

GHD

THE CORPORATION OF THE CITY OF MISSISSAUGA
2524 CAWTHRA ROAD, MISSISSAUGA, ONTARIO
PHASE ONE ENVIRONMENTAL SITE ASSESSMENT

1966 AERIAL PHOTOGRAPH

Project No. **12581540**
Date **May 2022**

Filename: \\ghdnet\ghd\CA\Mississauga\Projects\662\12581540\Digital_Design\ACAD\Figures\RPT-PhaseONE_ESA\12581540-GHD-00-00-RPT-EN-D104_WA-001-PhaseONE_ESA.dwg
Plot Date: 25 May 2022 9:43 AM

Data Source: Mississauga Maps portion of the City of Mississauga website (http://www6.mississauga.ca/missmaps/#searchAddr).

0 25 50 75m

1:2500

Coordinate System:
UTM with NAD83 datum, Zone 17, Meter

N

GHD

THE CORPORATION OF THE CITY OF MISSISSAUGA
2524 CAWTHRA ROAD, MISSISSAUGA, ONTARIO
PHASE ONE ENVIRONMENTAL SITE ASSESSMENT

1975 AERIAL PHOTOGRAPH

Project No. **12581540**
Date **May 2022**

Filename: \\ghdnet\ghd\CA\Mississauga\Projects\662\12581540\Digital_Design\ACAD\Figures\RPT-PhaseONE_ESA\12581540-GHD-00-00-RPT-EN-D104_WA-001-PhaseONE_ESA.dwg
Plot Date: 25 May 2022 9:43 AM

Data Source: Mississauga Maps portion of the City of Mississauga website (http://www6.mississauga.ca/missmaps/#searchAddr).

0 25 50 75m

1:2500

Coordinate System:
UTM with NAD83 datum, Zone 17, Meter

N

GHD

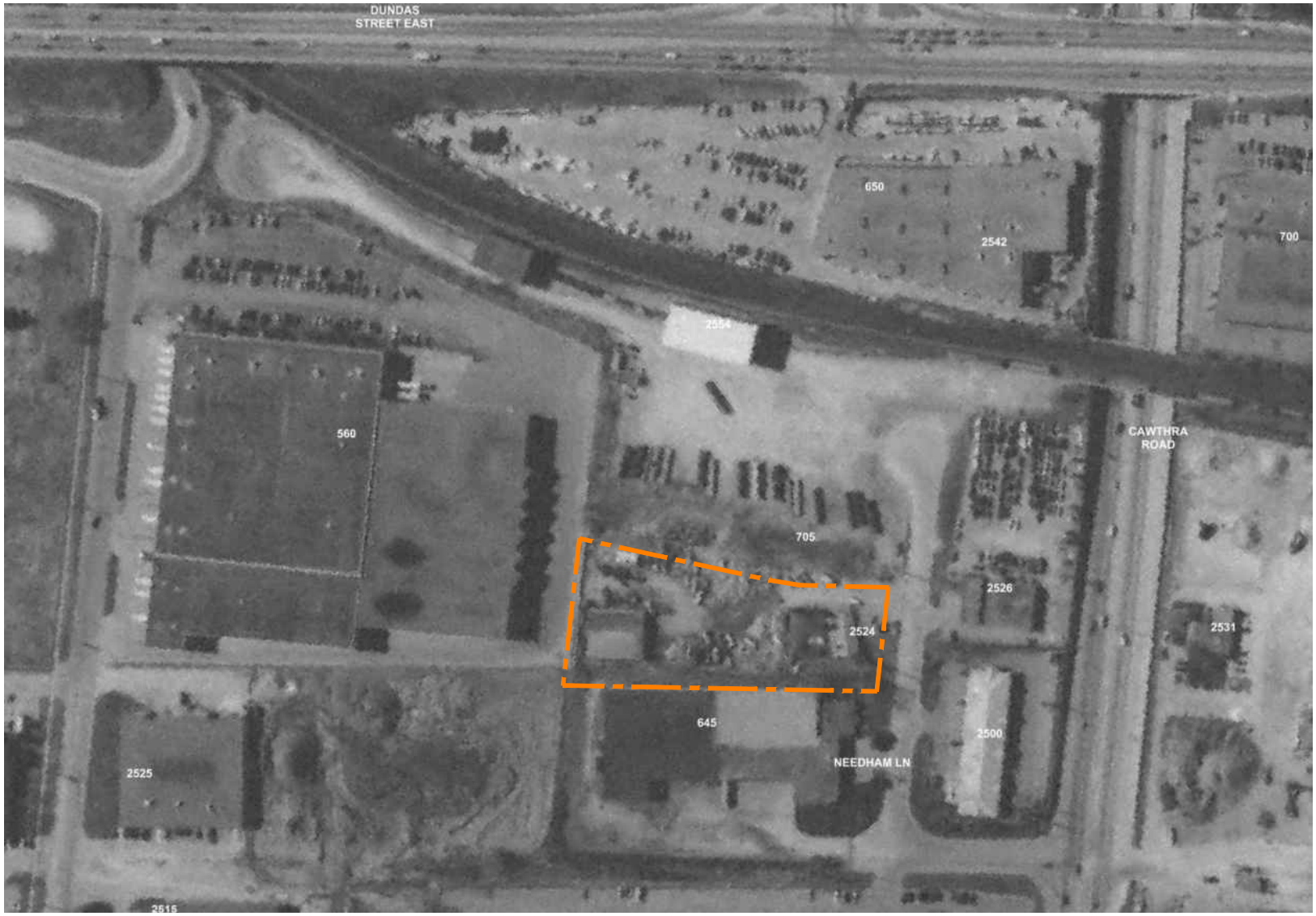
THE CORPORATION OF THE CITY OF MISSISSAUGA
2524 CAWTHRA ROAD, MISSISSAUGA, ONTARIO
PHASE ONE ENVIRONMENTAL SITE ASSESSMENT

Project No. **12581540**
Date **May 2022**

1985 AERIAL PHOTOGRAPH

Filename: \\ghdnet\ghd\CA\Mississauga\Projects\662\12581540\Digital_Design\ACAD\Figures\RPT-PhaseONE_ESA\12581540-GHD-00-00-RPT-EN-D104_WA-001-PhaseONE_ESA.dwg
Plot Date: 25 May 2022 9:43 AM

Data Source: Mississauga Maps portion of the City of Mississauga website (http://www6.mississauga.ca/missmaps/#searchAddr).



0 25 50 75m

1:2500

Coordinate System:
UTM with NAD83 datum, Zone 17, Meter

GHD

THE CORPORATION OF THE CITY OF MISSISSAUGA
2524 CAWTHRA ROAD, MISSISSAUGA, ONTARIO
PHASE ONE ENVIRONMENTAL SITE ASSESSMENT

Project No. **12581540**
Date **May 2022**

1997 AERIAL PHOTOGRAPH

Filename: \\ghdnet\ghd\CA\Mississauga\Projects\662\12581540\Digital_Design\ACAD\Figures\RPT-PhaseONE_ESA\12581540-GHD-00-00-RPT-EN-D104_WA-001-PhaseONE_ESA.dwg
Plot Date: 25 May 2022 9:43 AM

Data Source: Mississauga Maps portion of the City of Mississauga website (http://www6.mississauga.ca/missmaps/#searchAddr).

0 25 50 75m

1:2500

Coordinate System:
UTM with NAD83 datum, Zone 17, Meter

N

GHD

THE CORPORATION OF THE CITY OF MISSISSAUGA
2524 CAWTHRA ROAD, MISSISSAUGA, ONTARIO
PHASE ONE ENVIRONMENTAL SITE ASSESSMENT

Project No. **12581540**
Date **May 2022**

2007 AERIAL PHOTOGRAPH

Filename: \\ghdnet\ghd\CA\Mississauga\Projects\662\12581540\Digital_Design\ACAD\Figures\RPT-PhaseONE_ESA\12581540-GHD-00-00-RPT-EN-D104_WA-001-PhaseONE_ESA.dwg
Plot Date: 25 May 2022 9:43 AM

Data Source: Mississauga Maps portion of the City of Mississauga website (http://www6.mississauga.ca/missmaps/#searchAddr).

0 25 50 75m

1:2500

Coordinate System:
UTM with NAD83 datum, Zone 17, Meter

N

GHD

THE CORPORATION OF THE CITY OF MISSISSAUGA
2524 CAWTHRA ROAD, MISSISSAUGA, ONTARIO
PHASE ONE ENVIRONMENTAL SITE ASSESSMENT

Project No. **12581540**
Date **May 2022**

2017 AERIAL PHOTOGRAPH

Filename: \\ghdnet\ghd\CA\Mississauga\Projects\662\12581540\Digital_Design\ACAD\Figures\RPT-PhaseONE_ESA\12581540-GHD-00-00-RPT-EN-D104_WA-001-PhaseONE_ESA.dwg
Plot Date: 25 May 2022 9:43 AM

Data Source: Mississauga Maps portion of the City of Mississauga website (http://www6.mississauga.ca/missmaps/#searchAddr).

0 25 50 75m

1:2500

Coordinate System:
UTM with NAD83 datum, Zone 17, Meter

N

GHD

THE CORPORATION OF THE CITY OF MISSISSAUGA
2524 CAWTHRA ROAD, MISSISSAUGA, ONTARIO
PHASE ONE ENVIRONMENTAL SITE ASSESSMENT

2020 AERIAL PHOTOGRAPH

Project No. **12581540**
Date **May 2022**

Filename: \\ghdnet\ghd\CA\Mississauga\Projects\662\12581540\Digital_Design\ACAD\Figures\RPT-PhaseONE_ESA\12581540-GHD-00-00-RPT-EN-D104_WA-001-PhaseONE_ESA.dwg
Plot Date: 25 May 2022 9:22 AM

Data Source: Mississauga Maps portion of the City of Mississauga website (http://www6.mississauga.ca/missmaps/#searchAddr).

Appendix F

Site Photographs

Photo 1 - Photo of the property entrance, the residential building, and the parking lot, with the location of the garage captured in the distance. The photo was taken while facing south-west.

Photo 2 - Photo of the adjacent vacant property located to the north-west of the Site, taken while facing west. Photo displays the location of the train tracks and the former Ryder warehouse.

Photo 3 - Photo taken from near the entrance of the Site, facing north-west, and displaying the adjacent train tracks and the RONA store property.

Photo 4 - Photo of the Hawley Collision Centre located across the street from the Site, taken while facing north-east.

Photo 5 - Photo taken of the southern adjacent property (CJ's Skatepark/Iner City Papers Ltd.) from the southern corner of the automotive garage, taken while facing the south-west.

Photo 6 - Photo taken of the eastern adjacent property (Hinspergers Poly Industries), taken from the entrance of the Site property while facing south-east.

Photo 7 - Photo taken from behind the residential building while facing north-east.

Photo 8 – Photo of the Site taken from north-west corner of the garage facing north-east. The location of the former above ground storage tank is displayed in the left portion of the image.

Photo 9 – Photo of the western corner of the garage, taken while facing south.

Photo 10 – Photo of the eastern corner of the garage, taken while facing south-east. An oil/water separator is in the eastern corner of the building and is connected to the residential side of the property in the north-east corner.

Photo 11 – Photo of the northern corner of the garage, taken while facing south. The utilized above ground storage tank is located in the brown storage container included in the image.

Photo 12 – Photo of the shed located to the south of the residential building, in the north-east corner of the Site. The oil/water separator connects to the shed from the north-east corner of the garage.

Photo 13 – Photo from inside of the automotive garage, taken of the northern corner of the building. A north-east/south-west oriented trench is included in the image.

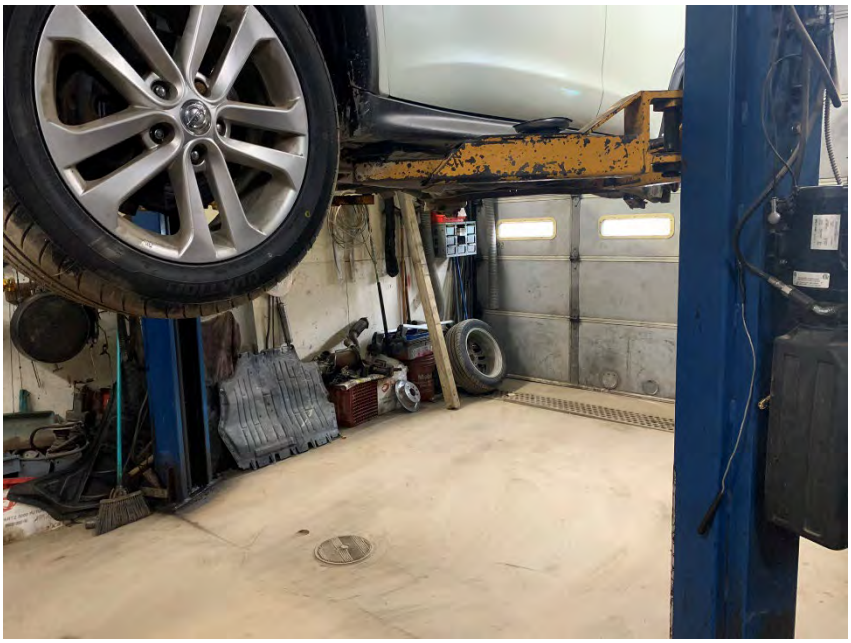


Photo 14 – Photo taken of one of two former in-ground hoists located in the western portion of the automotive garage, as well as a second trench that is located along the western side of the building. Photo was taken in the western corner of the garage while facing west.

Photo 15 – Photo taken of the western portion of the automotive garage, facing west. The trench included in Photo 14 is included again in this photo, as this image was taken north-east of Photo 13.

Photo 16 – Photo taken of the southern corner of the automotive garage facing south.

Photo 17 – Photo taken of the southern corner of the automotive garage facing south.

Photo 18 – Photo taken of the stored waste located around the Site.

Photo 19 – Photo taken of the stored waste located around the Site.

Phase Two Environmental Site Assessment

2524 Cawthra Road, Mississauga, Ontario

The Corporation of the City of Mississauga

15 November 2022

→ **The Power of Commitment**

Contents

Figure index

Table index

Appendices

Executive Summary

GHD Limited (GHD) was retained by City of Mississauga to undertake a Phase Two Environmental Site Assessment for a mixed residential/commercial property located at 2524 Cawthra Road in Mississauga, Ontario (hereinafter referred to as the Site or Property). The Site has been owned by Migus Autowork Limited since 2009. The Site consists of a parcel of land totaling approximately 0.62 hectares (1.5 acres) identified as parcel identification number (PIN): 13345-0060 LT (2524 Cawthra Road). A Site Location is shown on **Figure 1**. Compass directions (north, east, south, and west) described in this report are referenced to "Project North", which is oriented parallel to Cawthra Road.

The Phase Two ESA was undertaken in general accordance with O. Reg. 153/04, as amended. It is GHD's understanding that the Phase Two ESA was being undertaken in support of due diligence purposes for the potential acquisition of the property and the filing of a Record of Site Condition (RSC) is not a requirement.

GHD previously completed a Phase One ESA of the Site in July 2022. Based on the results of the Phase One ESA, the following areas of potential environmental concern (APECs) were identified to be associated with the Site:

1. **APEC #1 - Fill Quality, Historical Spill, and Historical Waste Management and Disposal (Entire Site):**

   Based on the findings of the Phase One ESA, fill of unknown quality is likely present on Site. b) A historical fire also occurred on Site in 1993 resulting in a release of oily water and confirmed soil impacts. c) The Site has also been used for various industrial/commercial purposes in the past and was occupied by a waste management and disposal company (DiCarlo Disposal & Pallet Company). The following PCAs, as defined by O. Reg. 153/04, were identified to be associated with the entire Site and identified as **APEC #1**:

   a) PCA # 30 – Importation of Fill of Unknown Quality
   b) PCA #A – Historical 1993 release
   c) PCA #58 – Historical Waste Management and Disposal, Including Thermal Treatment, Landfilling and Transfer of Waste, Other Than Use of Biosoils as Soil Conditioners

2. **APEC #2 – Garage Operations, with Oil Water Separator and Above Ground Storage Tank (On-Site):**

   Based on the findings of the Phase One ESA, the Site was developed with an automotive garage in the 1960's, with an addition to the garage during the 1980's. Historical operations included sandblasting and spray-painting operations. Trench drains, out-of-use in-ground hoists, and an oil/water separator are located within the garage. A waste oil AST is located within a storage container to the north of the exterior wall of the garage. The following PCAs, as defined by O. Reg. 153/04, were identified to be associated with the southwestern portion of the Site and identified as **APEC #2:**

   a) PCA #10 – Commercial Autobody Shops
   b) PCA #28 - Gasoline and Associated Products Storage in Fixed Tanks

3. **APEC #3 – Residential Dwelling with an Above Ground Storage Tank (On-Site):**

   Access to the residential dwelling was not available at the time of the Site inspection. However, based on a review of the 1997 records identified through Opta Information Intelligence (OPTA), the residential dwelling was historically heated by fuel oil, which was stored in a 1,137-litre AST located in the basement. Based on discussion with Site personnel, the residential dwelling is reportedly heated by natural gas. The operation of a fuel oil AST on Site was identified as a PCA as defined by O. Reg. 153/04 (#28 - Gasoline and Associated Products Storage in Fixed Tanks) and the eastern portion of the Site was identified as **APEC #3**.

4. **APEC #4 - 2526 Cawthra Road (Adjacent Property to the East):**

   Based on the findings of the Phase One ESA, an automotive collision centre is operated at 2526 Cawthra Road, an adjacent property to the east of the Site. The operation of an automotive collision centre to the east of the Site was identified as a PCA as defined by O. Reg. 153/04 (#10 – Commercial Autobody Shop) and the eastern portion of the Site was identified as **APEC #4**.

5. **APEC #5 – 560 Hensall Circle (Adjacent Property to the West):**

   Based on a review of the ERIS database report, the adjacent property to west was historically occupied by paper and ink manufacturing businesses. In addition, a private 22,700 litre UST was reportedly operated on the property in the past. The historical operations at 560 Hensall Circle were identified as PCAs as defined by O. Reg. 153/04 (PCA #28 – Gasoline and Associated Products Storage in Fixed Tanks, PCA #31 – Ink Manufacturing, Processing and Bulk Storage and PCA #45 – Pulp, Paper and Paperboard Manufacturing and Processing) that have the potential to contribute to an APEC on Site and the western boundary of the Site was identified as **APEC #5**.

6. **APEC #6 – 645 Needham Lane (Adjacent Property to the South):**

   Based on a review of the ERIS database report and Site observations, the adjacent property to the south of the Site (645 Needham Lane) has been occupied by a plastic manufacturing company (Hinspergers Poly Industries Ltd). Due to the proximity to the Site, the operations on the adjacent property to the south of the Site were identified as a PCA as defined by O. Reg. 153/04 (#43 – Plastics (including Fibreglass) Manufacturing and Processing) that has the potential to contribute to an APEC on the Site and the southern boundary of the Site was identified as **APEC #6**.

7. **APEC #7 – 705&709 Needham Lane (Adjacent Property to the North):**

   Based on a review of the ERIS database report and Site observations, the adjacent property to the north of the Site (707/709 Needham Lane) was historically occupied by Ryder Truck Centre Due to the proximity to the Site, the operations on the adjacent property to the north of the Site were identified as a PCA as defined by O. Reg. 153/04 (#11 – Commercial Trucking and Container Terminals) that has the potential to contribute to an APEC on the Site and the northern boundary of the Site was identified as **APEC #7**.

GHD completed a Phase Two ESA to investigate the soil and groundwater quality at the APECs identified during the Phase One ESA. Soil and groundwater samples were collected and analyzed for one or more of the following: metals and inorganics, polycyclic aromatic hydrocarbons (PAHs), petroleum hydrocarbon fractions (PHC) F1 to F4, volatile organic compounds (VOCs) and polychlorinated biphenyls (PCBs). Inorganics analyses for soil samples included electrical conductivity (EC), pH, cyanide and sodium adsorption ratio (SAR). Inorganics analyses for groundwater samples included cyanide and chloride.

The laboratory analytical results were assessed to the following Standards:

– Table 3: Full Depth Site Condition Standards in a Non-Potable Ground Water Condition (Table 3 Generic Standards); and,
– Table 7: Generic Site Condition Standards for Shallow Soils in a Non-Potable Ground Water Condition (Table 7 Generic Standards) for VOC analytical results.

The soil and groundwater analytical data were assessed using Industrial/Commercial/Community Property Use and fine-textured soil standards.

The following compounds are identified as contaminants of concern (COCs) in soil at the Site since they were detected at concentrations greater than the Table 3 Generic Standards:

– **Metals:** Arsenic, Cadmium, Chromium, Lead, Vanadium and Zinc
– **Inorganics**: pH and Sodium Adsorption Ratio (SAR)
– **PAHs:** Acenaphthylene, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b/j)fluoranthene, Benzo(k)fluoranthene, Chrysene, Dibenz(a,h)anthracene, Fluoranthene, Indeno(1,2,3-cd)pyrene and Phenanthrene
– **PHCs:** PHC fractions F3 and F4G

A summary of the soil analytical data with respect to the APECs investigated as part of the Phase Two ESA is provided below:

– **APEC #1 – Fill Quality, Historical Spill, and Historical Waste Management and Disposal:** certain metals, inorganics, PAHs and PHCs parameters as listed above were detected at concentrations above the Table 3 Standards in the soil samples collected mostly between 0 to 1.4 mBGS at several borehole locations across the Site. See **Figures 4 to 6** for reference. It should be noted that for BH11-22, concentrations of PHC F4G above the Table 3 Standards were identified from soils as deep as 2.1 mBGS. The elevated concentrations of the above parameters are likely related to the fill material present at the Site, as well as historical land uses (waste management and disposal facility. Although the vertical extent is not fully known, it is likely that impacts are generally limited to the historic fill placed at the Site.

All groundwater samples submitted for laboratory analysis had concentrations below the Table 3 and Table 7 Standards.

1. Introduction

GHD Limited (GHD) was retained by the Corporation of the City of Mississauga (City) to undertake a Phase Two Environmental Site Assessment (ESA) for a mixed residential/commercial property located at 2524 Cawthra Road in Mississauga, Ontario (hereinafter referred to as the Site or Property). The Site has been owned by Migus Autowork Limited since 2009. The Site consists of a parcel of land totalling approximately 0.62 hectares (1.5 acres) identified as parcel identification number (PIN): 13345-0060 LT (2524 Cawthra Road). The Site Location is shown on **Figure 1**. Compass directions (north, east, south, and west) described in this report are referenced to "Project North", which is oriented parallel to Cawthra Road.

GHD previously completed a Phase One ESA of the Site in July 2022. The results of GHD's Phase One ESA are summarized in the report entitled "*Phase One Environmental Site Assessment, 2524 Cawthra Road, Mississauga, Ontario*," prepared for City of Mississauga, dated July 26, 2022.

The objective of this Phase Two ESA was to investigate soil and groundwater quality, as applicable, in areas of potential environmental concern (APECs) identified during the Phase One ESA. This report summarizes the investigative activities completed during the Phase Two ESA, and presents the data generated therefrom.

The Phase Two ESA was undertaken in general accordance with O. Reg. 153/04, as amended. It is GHD's understanding that the Phase Two ESA was being undertaken in support of due diligence purposes for the potential acquisition of the property and the filing of a Record of Site Condition (RSC) is not a requirement.

This report has been prepared for the use of City of Mississauga and may not be relied upon by others without the written consent of GHD.

1.1 Site Description

The Site is located in an area of the City of Mississauga developed primarily for commercial and industrial use. The Site consists of a parcel of land totaling approximately 0.62 hectares (1.5 acres). An automotive garage, approximately 450 square metres in size is located in the southwest corner of the Property and a residential dwelling (approximate 120 square metres in size) is located in the southeast corner of the Property. The Site is identified as parcel identification number (PIN): 13345-0060 LT (2524 Cawthra Road).

Site access is provided by an asphalt paved driveway off Needham Lane. The exterior surfaces of the Site primarily consist of gravel. No water bodies are located on the Site.

1.2 Property Ownership

The Property is currently owned by Migus Autowork Ltd. Contact information for the property owners is listed below:

Mr. Darek Migus
Owner, Migus Autowork Ltd.
2524 Cawthra Road
Mississauga, Ontario, L5A 2X3
Ph: (705)-994-3998

1.3 Current and Proposed Future Uses

The Site is currently being used for automotive repair and residential purposes, and the City may redevelop the Site as a fire station.

1.4 Applicable Site Condition Standards

The soil and groundwater analytical results were assessed to the generic standards provided in the Ministry of the Environment[1] document entitled "*Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act*", dated April 15, 2011 (hereinafter referred to as the 2011 Generic Standards). The 2011 Generic Standards provide generic soil and groundwater quality standards for certain chemicals, based on combinations of the following Site-specific conditions:

- **Property use type** – The Site is currently used as a mixed Residential/Commercial property. The proposed future land use of the Property will a fire station (Community land use). Based on this, the standards for industrial/commercial/community property use are used for assessment purposes.
- **Restoration of groundwater quality** – Potable/non-potable. The Site obtains its potable water from the Region of Peel's water distribution system, which obtains its raw water supply from Lake Ontario or regionally owned wells. According to Ontario well records, no potable wells were identified within 250 m of the Site. Based on this, non-potable groundwater conditions are considered applicable to the Site.
- **Restoration depth – full depth and stratified depth**. For comparative purposes, results were compared to full depth standards.
- **Soil texture** – Coarse or medium to fine. Based on the grain size analysis of soil samples collected at the Site, the predominant soil texture at the Site was considered to be fine-textured; therefore, the soil and groundwater data were assessed to the standards for fine-textured soil.
- **Shallow Soil Property** – A shallow soil property means a property of which 1/3 or more of the area consists of soil equal to or less than 2 metres (m) in depth beneath the soil surface, excluding any non-soil surface treatment. Although, more than 2.0 m of overburden soil cover is present across the Site, the groundwater table was measure at depths ranging from 0.42 to 2.96 metres below ground surface (mBGS). Given the shallow water table, there is the potential for volatile organic compounds (VOCs), if present, to migrate to indoor air. Therefore, the VOC results was assessed to the shallow property standard.
- **Within 30 metres (m) of a Water Body** – A water body is not located on the Site and the Site is not located within 30 m of a water body.

The 2011 Generic Standards are not applicable if the Site is considered to be an environmentally sensitive area. The conditions for the above are presented in Section 41 of O. Reg. 153/04. Review of these conditions with respect to the Site indicated that the Site may be considered as an environmentally sensitive area based on the following:

- The soil pH in surface soils (0 to 1.5 metres below ground surface [mBGS]) was outside the acceptable range of 5 and 9, as outlined in Section 41 of O. Reg. 153/04. A total of 11 out of 18 submitted surface soil samples collected between 0 and 0.6 mBGS contained soil pH values ranging from 9.5 to 11.1. Vertical delineation of the elevated pH values has not been achieved during this Phase Two ESA.

However, since this Phase Two ESA was being undertaken in support of due diligence purposes for the potential acquisition of the property and the filing of a Record of Site Condition (RSC) is not a requirement, it is GHD's opinion that considering the site as an environmentally sensitive area and thus assessing the laboratory analytical results to Table 1: Full Depth Background Site Condition Standards are not applicable for the Site at this time.

In addition, the Site is: i) not located within an area of natural significance, ii) does not include or is not adjacent to an area of natural significance, nor is it a part of such area, and iii) does not include land that is within 30 m of an area of natural significance nor is part of such an area. The Ontario Ministry of Natural Resources and Forestry's "Natural Heritage Information Centre (NHIC)" database was reviewed to identify areas registered as Areas of Natural or Scientific Interest (ANSI) or for known occurrences of Species at Risk (NHIC Rare Occurrences) within a 1-kilometre (km) radius of the Site. No records were identified in the ANSI database to be within 1 km of the Site. However, it should be noted that Henslow's Sparrow (endangered) and Chimney Swift (threatened) were identified in the database to be potentially present within 1 km of the Site.

[1] Currently the Ministry of Environment Conservation and Parks (MECP).

Based on the above Site-specific information, as well as the purpose of this Phase Two ESA (due diligence purposes for the potential acquisition of the property), the laboratory analytical results were assessed to the following Standards:

– Table 3: Full Depth Site Condition Standards in a Non-Potable Ground Water Condition (Table 3 Generic Standards); and,
– Table 7: Generic Site Condition Standards for Shallow Soils in a Non-Potable Ground Water Condition (Table 7 Generic Standards) for VOC analytical results.

The soil and groundwater analytical data were assessed using Industrial/Commercial/Community Property Use and fine-textured soil standards.

2. Background Information

2.1 Physical Setting

Review of historical records indicated that The Site is located in a predominantly residential and commercial area in an urban city centre of Mississauga, Ontario.

Overall, the topography across the Site gently slopes south towards Lake Ontario. The elevation varies is approximately 118 metres above mean sea level (mAMSL) in the south to 125 mAMSL[2] in the north.

A review of quaternary geology for the Site indicates that the Site is located in the broad physiographic region known as Sand Plain[3]. Glaciolacustrine deposits are present which consist of sand, gravelly sand and gravel, nearshore and beach deposits. The bedrock underlying the overburden is the Georgian Bay Formation, which is predominantly comprised of shale, limestone, dolostone, and siltstone.

No surface water bodies are located on the Site. Lake Ontario is located approximately 4.5 kilometres south of the Property. The Site is not within or adjacent to an "area of natural significance" as defined by O. Reg. 153/04, and there are no areas of natural significance within the Phase One ESA study area.

North: The Site is bounded to the north by a vacant industrial/commercial property formerly occupied by Ryder System Inc. (705 & 709 Needham Lane), and beyond by a railway track, a RONA retail store (650 Dundas Street East), and then Dundas Street East. Based on a review of the historical ERIS records during the Phase One ESA, the RONA retail store was formerly occupied by a lumber company, a home centre, and other commercial/industrial buildings.

East: The Site is bounded to the east by Needham Lane and Hawley Collision Centre (2526 Cawthra Road). Cawthra Road and Franceschini Bros. Aggregates (a division of Lafarge Canada) is located beyond at 2531 Cawthra Road. A motel/shelter is located southeast of the Site.

South: The Site is bounded to the south by Hinspergers Poly Industries (645 Needham Lane), a plastic products manufacturer. A multi-tenant commercial building (2480 Cawthra Road) is located further south of the Site.

West: The Site is bounded to the west by CJ's Skatepark, and CJ Graphics located at 560 Hensall Circle. Based on a review of the historical records, this property was occupied by various paper and ink processing companies, including Iner City Papers Ltd., Unisource Canada Inc., Veritiv, C.J. Graphics Inc. in the past. Commercial/industrial properties on Tedlo Street are located beyond.

[2] Natural Resources Canada (map). "The Atlas of Canada - Toporama", governed by version 2.3 of the Open Government License - Canada. October 19, 2015. < http://atlas.nrcan.gc.ca/toporama/en/index.html>

[3] Chapman, L. J., and D. F., Putnam (1984), "The Physiography of Southern Ontario", Ontario Geological Survey.

2.2 Past Investigations

GHD completed a Phase One ESA at the Site in July 2022. The results of the Phase One ESA are summarized in the report entitled "*Phase One Environmental Site Assessment, 2524 Cawthra Road, Mississauga, Ontario*," prepared for City of Mississauga, dated July 26, 2022 (2022 Phase One ESA)

Based on the results of the 2020 Phase One ESA, including the Site inspection, information provided by the Site contact and regulatory agencies, documents reviewed, and the review of Site history, the following APECs were identified to be associated with the Site:

1. **APEC #1 - Fill Quality, Historical Spill, and Historical Waste Management and Disposal (Entire Site):**

   Based on the findings of the Phase One ESA, fill of unknown quality is likely present on Site. b) A historical fire also occurred on Site in 1993 resulting in a release of oily water and confirmed soil impacts. c) The Site has also been used for various industrial/commercial purposes in the past and was occupied by a waste management and disposal company (DiCarlo Disposal & Pallet Company). The following PCAs, as defined by O. Reg. 153/04, were identified to be associated with the entire Site and identified as **APEC #1**:

   a) PCA # 30 – Importation of Fill of Unknown Quality
   b) PCA #A – Historical 1993 release
   c) PCA #58 – Historical Waste Management and Disposal, Including Thermal Treatment, Landfilling and Transfer of Waste, Other Than Use of Biosoils as Soil Conditioners

2. **APEC #2 – Garage Operations, with Oil Water Separator and Above Ground Storage Tank (On-Site):**

   Based on the findings of the Phase One ESA, the Site was developed with an automotive garage in the 1960's, with an addition to the garage during the 1980's. Historical operations included sandblasting and spray-painting operations. Trench drains, out-of-use in-ground hoists, and an oil/water separator are located within the garage. A waste oil AST is located within a storage container to the north of the exterior wall of the garage. The following PCAs, as defined by O. Reg. 153/04, were identified to be associated with the southwestern portion of the Site and identified as **APEC #2:**

   a) PCA #10 – Commercial Autobody Shops
   b) PCA #28 - Gasoline and Associated Products Storage in Fixed Tanks

3. **APEC #3 – Residential Dwelling with an Above Ground Storage Tank (On-Site):**

   Access to the residential dwelling was not available at the time of the Site inspection. However, based on a review of the 1997 records identified through Opta Information Intelligence (OPTA), the residential dwelling was historically heated by fuel oil, which was stored in a 1,137-litre AST located in the basement. Based on discussion with Site personnel, the residential dwelling is reportedly heated by natural gas. The operation of a fuel oil AST on Site was identified as a PCA as defined by O. Reg. 153/04 (#28 - Gasoline and Associated Products Storage in Fixed Tanks) and the eastern portion of the Site was identified as **APEC #3**.

4. **APEC #4 - 2526 Cawthra Road (Adjacent Property to the East):**

   Based on the findings of the Phase One ESA, an automotive collision centre is operated at 2526 Cawthra Road, an adjacent property to the east of the Site. The operation of an automotive collision centre to the east of the Site was identified as a PCA as defined by O. Reg. 153/04 (#10 – Commercial Autobody Shop) and the eastern portion of the Site was identified as **APEC #4**.

5. **APEC #5 – 560 Hensall Circle (Adjacent Property to the West):**

   Based on a review of the ERIS database report, the adjacent property to west was historically occupied by paper and ink manufacturing businesses. In addition, a private 22,700 litre UST was reportedly operated on the property in the past. The historical operations at 560 Hensall Circle were identified as PCAs as defined by O. Reg. 153/04 (PCA #28 – Gasoline and Associated Products Storage in Fixed Tanks, PCA #31 – Ink Manufacturing, Processing

and Bulk Storage and PCA #45 – Pulp, Paper and Paperboard Manufacturing and Processing) that have the potential to contribute to an APEC on Site and the western boundary of the Site was identified as **APEC #5**.

6. **APEC #6 – 645 Needham Lane (Adjacent Property to the South):**

   Based on a review of the ERIS database report and Site observations, the adjacent property to the south of the Site (645 Needham Lane) has been occupied by a plastic manufacturing company (Hinspergers Poly Industries Ltd). Due to the proximity to the Site, the operations on the adjacent property to the south of the Site were identified as a PCA as defined by O. Reg. 153/04 (#43 – Plastics (including Fibreglass) Manufacturing and Processing) that has the potential to contribute to an APEC on the Site and the southern boundary of the Site was identified as **APEC #6**.

7. **APEC #7 – 705&709 Needham Lane (Adjacent Property to the North):**

   Based on a review of the ERIS database report and Site observations, the adjacent property to the north of the Site (707/709 Needham Lane) was historically occupied by Ryder Truck Centre Due to the proximity to the Site, the operations on the adjacent property to the north of the Site were identified as a PCA as defined by O. Reg. 153/04 (#11 – Commercial Trucking and Container Terminals) that has the potential to contribute to an APEC on the Site and the northern boundary of the Site was identified as **APEC #7**.

3. Scope of the Investigation

3.1 Overview of Site Investigation

The objective of the Phase Two ESA was to investigate the APECs identified during the Phase One ESA. The following section provides a summary of the investigative activities that were completed during the Phase Two ESA.

3.2 Media Investigated

GHD completed soil and groundwater investigations. Sediment sampling was not completed as no water bodies or associated sediment are present at the Site. The following field investigation activities were completed to characterize the soil and groundwater quality:

– Advancement of eighteen (18) boreholes
– Instrumentation of four (4) of the boreholes as groundwater monitoring wells
– Field screening of soil and groundwater for undifferentiated organic vapours
– Hydraulic monitoring (groundwater level measurements and free-product measurements)
– Laboratory analysis of 30 soil samples (including a total of 8 field duplicate samples), and 4 groundwater samples (including 1 field duplicate sample)

Soil and groundwater samples were submitted for laboratory analysis of one or more of the following: metals and inorganics, polycyclic aromatic hydrocarbons (PAHs), petroleum hydrocarbon fractions (PHC) F1 to F4, volatile organic compounds (VOCs) and Polychlorinated Biphenyls (PCBs). Inorganics analyses for soil samples included electrical conductivity (EC), pH, and sodium adsorption ratio (SAR). Inorganics analyses for groundwater samples included chloride.

A summary of soil and groundwater sampling locations and chemical analysis is provided in **Table 1**. The investigative locations are shown on **Figure 2**.

3.3 Phase One Conceptual Site Model

The Site is located in an area of the City of Mississauga developed primarily for commercial and industrial use. The Site consists of a parcel of land totaling approximately 0.62 hectares (1.5 acres). An automotive garage, approximately 450 square metres in size is located in the southwest corner of the Property and a residential dwelling (approximate 120 square metres in size) is located in the southeast corner of the Property. The Site is identified as parcel identification number (PIN): 13345-0060 LT (2524 Cawthra Road).

The Site can be accessed via an entrance of Needham Lane. The exterior portions of the Site are largely gravel covered or consist of exposed soil. A landscaped area is located in close proximity to the residential dwelling and an asphalt paved area is located on the northeastern portion of the Site. Several derelict and out of use cars and miscellaneous supplies and tires are stored throughout the central and western portions of the Site. Several storage containers and trailers are also located throughout the Site. According to Site representatives, the storage containers are used for the storage of miscellaneous car parts, car body parts, tires, and furniture. The exterior portions of the Site (with the exception of the extreme eastern portion of the Site, in proximity to the residential dwelling) are fenced and/or brush covered.

Based on a review of historical records and aerial photographs, the Site was developed between 1954 and 1966 with a residential dwelling. The Site was further developed with the addition of a storage and automotive garage in the 1960's, with an addition to the garage during the 1980's. The Site was utilized for commercial and industrial use including automotive shops, a machinery installation shop, and for waste disposal. Prior to the 1954, the Site appeared to be either undeveloped, or utilized as an agricultural property with no visible building structures.

The Site obtains potable water from the municipal service. The Site is also serviced with municipal sewer services. According to Site personnel, the automotive garage is serviced with an oil/water separator that is connected to the municipal system. The liquids are processed through the oil/water separator are reportedly pumped to a pump house located to the west of the residential dwelling, and subsequently pumped to the municipal service present along Needham Lane. The following subsurface structures and utilities that may affect contaminant distribution and transport on Site included the following dating back to the early development of the Site: utility corridors (including the service for the oil/water separator), abandoned utility conduits, and underground infrastructure (including the oil/water separator system, trench drains and underground hoists servicing the garage).

The Site has been used for various commercial/industrial operations including various automotive repair businesses and a waste disposal business. Prior to the 1954, the Site appeared to be either undeveloped, or utilized as an agricultural property with no visible building structures. Based on a review of historical records, the Site occupants have included the following:

Year	Entity
2009 – present	Migus Autowork Ltd.
NA – 2009	CNS Hawley Collision Centre
1993 – 2001	Di Carlo Eugenio Disposal & Pallets Co. Ltd.
1982 – 1986	Trillium Sandblasting
1976 – 1981	Great Lake Lines
1971 – 1972	Hank's Rentals Sales & Warehouse
1966	Great Lakes Mach Installation

The topographic gradient at the Site gently slopes southerly towards Lake Ontario. The elevation on Site is approximately 118 mASL to 125 mASL[4]. The Site is generally flat with very little slope present. Regional topography slopes gradually to the south towards Lake Ontario.

[4] Natural Resources Canada (map). "The Atlas of Canada - Toporama", governed by version 2.3 of the Open Government License - Canada. October 19, 2015. < http://atlas.nrcan.gc.ca/toporama/en/index.html>

No surface water bodies are located on the Site. Lake Ontario is located approximately 4.5 kilometres south-east of the Property.

A review of quaternary geology for the Site indicates that the Site is located in the broad physiographic region known as Sand Plain[5]. Overburden in the vicinity of the Site consists of glaciolacustrine deposits, which consists of sand, gravelly sand and gravel, nearshore and beach deposits. The bedrock underlying the Site is the Georgian Bay Formation, which is predominantly comprised of shale, limestone, dolostone, and siltstone.

Based on a review of the well records identified through ERIS, sandy, silty, and gravely fill was found from near-surface to depths ranging from approximately 0.9 mBGS. Native soils underneath the fill material consisted of clay. Shale bedrock was encountered between 3.0 mBGS to 4.5 mBGS.

Based on the above information and the definition of area of natural significance provided in O. Reg. 153/04, the Site is not considered to be an area of natural significance.

3.4 Deviations

No deviations were noted during the Phase Two ESA.

3.5 Impediments

No impediments or denials of access were encountered by GHD during the Phase Two ESA.

4. Investigation Methods

4.1 General

GHD completed the Phase Two ESA field activities between June 6 and June 14, 2022, using a variety of investigation methods and sampling techniques. Investigations completed included the following, as described in detail in the following subsections:

- Completion of public and private utility locates.
- Advancement of boreholes
- Installation of groundwater monitoring wells.
- Collection of field soil screening measurements and observations.
- Collection of soil and groundwater samples.
- Field measurements of groundwater quality parameters.
- Hydraulic monitoring (groundwater level measurements and measurements for non-aqueous phase liquid [NAPL], if present).
- Quality assurance and quality control (QA/QC) measures.
- Elevation Surveying.
- Analytical testing.
- Residue management.

The field investigation activities were completed in accordance with MECP protocols, GHD's standard operating procedures (SOPs), and standard good practice.

[5] Chapman, L. J., and D. F., Putnam (1984), "The Physiography of Southern Ontario", Ontario Geological Survey.

Prior to the start of the investigation activities, GHD prepared a Site-specific Health and Safety Plan (HASP). The purpose of the HASP was to provide specific guidelines and established procedures for the protection of personnel performing the Site investigation activities. In addition, GHD also completed the appropriate public utility notifications and retained a private utility locator to assist with on-Site utility clearance.

4.2 Drilling and Excavating

Drilling activities were completed between June 6th and June 14th, 2022. Profile Drilling Inc. (Profile) and Tri-Phase Group (Tri-Phase) were retained by GHD to advance a total of 18 boreholes to depths ranging from 2.5 to 5.4 mBGS.

Profile used a track-mounted B-60 drill rig and Tri-Phase used a track-mounted Geoprobe® 7822DT drill rig to advance the boreholes.

Soil samples were generally collected in 0.61 m (2 foot) intervals to the final depth of investigation using a 51 mm outside diameter stainless steel split spoon sampler.

Prior to use, and between each borehole location, the drilling and sampling equipment was thoroughly cleaned using a hard bristled scrub brush with Alconox® soap and potable water followed by a potable water rinse. Washed and rinsed split-spoon was used for each sampling interval.

4.3 Soil Sampling

Soils recovered from each borehole were logged using the Unified Soil Classification System (USCS), making special note of any visual or olfactory evidence of potential impacts. Soil samples were qualitatively and quantitatively screened in the field for the presence of impact. Qualitative screening was based on visual and olfactory observations, while quantitative screening was based on the measurement of undifferentiated volatile organic vapours in the headspace of the soil samples collected. GHD field personnel screened the soil from the boreholes by placing a portion of the soil core in a Ziploc® bag and measuring relative concentrations of undifferentiated volatile organic vapour readings in the headspace inside the bag using a photoionization detector (PID). The soil sample exhibiting the strongest field evidence of impact (i.e., high PID readings and visual and/or olfactory evidence of impact) was submitted for laboratory analyses. Soil samples were collected in laboratory-supplied glass containers which were placed in a cooler containing ice for sample preservation. Undisturbed soil samples for PHC fraction F1 and VOC analyses were placed directly in sample containers provided by the laboratory. Field screening measurement methods are described later in this section. The geological conditions and qualitative and quantitative information (including PID measurements) collected at each investigative location are presented on stratigraphic and instrumentations logs provided in **Appendix A**. The borehole locations are shown on **Figure 2.**

4.4 Field Screening Measurements

GHD field personnel screened the soil from the boreholes by placing a portion of the soil core in a Ziploc® bag and measuring relative concentrations of undifferentiated volatile organic vapour readings in the headspace inside the bag using a PID.

Prior to use, the PID was inspected and calibrated according to the manufacturer's recommendations. Calibrating the MiniRae 3000 is a two-point process using "fresh air" and the standard reference gas (also known as span gas). A "fresh air" calibration, which contained no detectable VOC (0.0 parts per million [ppm]), was used to set the zero point for the sensor. Then, a standard reference gas (isobutylene) of known concentration (100 ppm) was used to set the second point of reference.

The PID model specifications are listed below:

Detector:	Photo ionization detector with 10.6 eV UV lamp
Measurement Accuracy (Isobutylene):	0 - 2,000 ppm: ±2 ppm or 10% of reading >2,000 ppm: ±20% of reading
Calibration:	Two-point field calibration of zero and standard reference gas

The PID measurements from field screening the soil samples are presented on the borehole stratigraphic and instrumentation logs provided in **Appendix A**.

4.5 Groundwater: Monitoring Well Installation

Groundwater monitoring wells were installed within 4 of the 18 boreholes.

The groundwater monitoring wells were constructed with a 51-millimetre (2-inch) diameter, Schedule 40 polyvinyl chloride (PVC) riser with a 3.0 m (10 feet) long, No. 10 slot size well screen. The well screens were installed to straddle the groundwater table based on wet/saturated soil conditions encountered during borehole advancement activities.

A silica sand pack was placed in the annular space between the PVC screen/riser pipe and the borehole to a height of approximately 0.3 m above the top of the screen. A bentonite seal was placed directly above the sand pack and extended to within 0.3 m of the ground surface. To complete the instrumentation, an expandable J-plug was installed on the riser pipe of the monitoring well. A protective flush-mount casing with a concrete collar was placed around each of the monitoring wells upon completion. Each groundwater monitoring well was equipped with dedicated sampling equipment consisting of Waterra™ tubing and inertial foot valves for monitoring well development.

In accordance with Ontario Regulation 903 (O. Reg. 903), the monitoring wells were registered with the MECP. A summary of monitoring well construction details, including ground surface and screened interval elevations, is provided in **Table 2**. The locations of the monitoring wells are shown on **Figure 2**. The stratigraphic and instrumentation logs are provided in **Appendix A**.

4.6 Groundwater: Field Measurements of Water Quality Parameters

In order to ensure that samples representative of on-Site groundwater conditions were obtained, each monitoring well was developed upon completion of installation. GHD implemented the following protocol during well development activities:

– The groundwater monitoring wells were equipped with dedicated Waterra™ tubing and an inertial foot valve for well development activities.
– The groundwater monitoring wells were purged of a minimum of 5 to 10 well volumes to remove the standing groundwater volume in the well.
– Field measurements of temperature, pH, and EC were recorded after each purged well volume using a Horiba water quality meter until consistent field measurements were recorded indicating that water in the well was representative of groundwater conditions. Summary of the low-flow purging activities is presented in Table 3.

The purged water was temporarily contained in a 205-litre drum.

4.7 Groundwater: Sampling

Prior to initiating groundwater sampling activities, headspace readings, depth to groundwater measurements, and a non-aqueous phase liquids (NAPL) or free product check were completed at each of the monitoring wells.

Subsequent to well development activities, each monitoring well was purged using low-flow sampling techniques in order to ensure that samples representative of groundwater conditions were obtained. Peristaltic pumps were used to purge and sample each of the monitoring wells. GHD implemented the following protocol during groundwater sample collection:

– The groundwater monitoring wells were equipped with dedicated 0.25-inch polyethylene tubing for well purging and sampling activities.
– Field measurements of pumping rate, depth to water, drawdown from initial water level, pH, temperature, turbidity, EC, dissolved oxygen, and oxidation reduction potential were monitored over time until consistent field measurements were recorded, indicating that water in the well was representative of groundwater conditions. The water quality parameters were measured using a Horiba water quality meter equipped with a flow-through cell.
– Purging was continued until field parameters stabilized in order to attain a representative groundwater sample.
– Groundwater samples collected for metals analysis were field filtered using a 0.45 micron filter prior to sample collection.

Groundwater samples were collected in laboratory-supplied sample containers specific to the analytical parameters, stored in coolers chilled with ice, and submitted under chain-of-custody protocol for laboratory analysis. All groundwater samples were collected using the appropriate sampling techniques.

4.8 Sediment Sampling

Sediment sampling was not completed during the Supplemental Phase Two ESA as no surface water bodies are located on the Site.

4.9 Analytical Testing

All soil and groundwater samples were submitted under chain-of-custody protocol to ALS Laboratory Group (ALS) for chemical analysis. ALS is accredited by Canadian Association for Laboratory Accreditation (CALA), a MECP-approved accreditation body.

Copies of all the analytical laboratory reports are provided in **Appendix B**.

4.10 Residue Management Procedures

Soil cuttings, groundwater purge water, and equipment decontamination wash water generated during drilling, excavating, and sampling activities were contained in 205-litre (45-gallon) metal drums and stored on-Site, pending future off-Site disposal in accordance with applicable regulations.

GHD collected one representative composite soil sample for toxicity characteristic leaching procedure (TCLP) analysis to characterize the soil for off-Site disposal at a MECP-approved waste disposal facility. The analytical data were assessed with respect to O. Reg. 347, Schedule 4 Leachate Quality Criteria and are summarized in **Table 5**. Based on the analytical results, the soil cuttings generated during the drilling activities are classified as non-hazardous solid waste.

4.11 Elevation Surveying

All investigative locations were surveyed for vertical control relative to a temporary benchmark (the bottom of light pole #C19696), which is located on the northeast corner of the Site. The temporary benchmark was assumed to have an elevation of 100.0 mASD. The ground surface elevation of each of the groundwater monitoring wells completed during the Phase Two ESA were surveyed with respect to the benchmark. The ground surface elevations for the groundwater monitoring wells are presented in **Table 2**.

4.12 Quality Assurance and Quality Control Measures

A QA/QC program was implemented during the Phase Two ESA to ensure quality data was generated.

This program involved both field and laboratory QA/QC measures. The QA/QC program was initiated to ensure that if any form of sample contamination occurs, or if any lack of precision in the analytical methods employed is evident, the potential source and degree of the contamination or analytical imprecision can be identified and adequately addressed.

Samples were collected in clean laboratory supplied sampling containers with the appropriate preservative and submitted under chain of custody protocol to ALS for chemical analysis. Soil samples that were submitted for analysis of volatile parameters (e.g., VOCs and PHC fraction F1) were collected using the methanol preservation method. From the time of sample collection to the time of submission to the laboratory, samples were stored in a cooler with ice or ice packs to maintain sample integrity.

The following field measures were taken for QA purposes:

– Between collection of each soil and groundwater sample, GHD field personnel donned a new pair of disposable nitrile gloves.
– Prior to use, and between each borehole location, the drilling and non-dedicated sampling equipment was scrubbed clean using a hard bristled brush (where needed), Alconox® soap, and potable water followed by a potable water rinse.
– Wherever possible, dedicated sampling equipment (e.g., low density polyethylene (LDPE) tubing, fittings, Ziploc® bags, etc.) was used to reduce the potential for cross contamination.
– Groundwater samples collected for metals analysis were field filtered using dedicated 0.45 micron filters during sample collection.

To validate the field analysis, a minimum of one QA/QC field duplicate sample was collected for every 10 samples for each analytical parameter of each media (soil and groundwater), and submitted for laboratory analysis. Trip blanks were also submitted (approximately one per laboratory submission) for groundwater samples where analysis of volatile parameters was required.

QC samples were also analyzed by the laboratory as required by their analytical methods. Analytical results received by GHD were reviewed and verified. The verification program consists of reviewing the following parameters:

– Sample holding times.
– Surrogate spike recoveries.
– Method blank analysis.
– Matrix spike and matrix spike duplicate recoveries.
– Laboratory control sample analysis.
– Calibration verification sample analysis.
– Laboratory duplicate analysis.
– Field duplicate analysis.
– Trip blank analysis.

5. Review and Evaluation

This review and evaluation section describes the results of the Phase Two ESA. An overview of the contents of each subsection is provided in the following table:

Section	Title	Contents
6.1	Geology	General stratigraphy encountered at the Site
6.2	Groundwater: Elevations and Flow Direction	Summary of monitoring well completion details (Table 2) Groundwater level measurements and elevations (Table 4) Groundwater elevation contours (**Figure 3**)
6.3	Groundwater: Hydraulic Gradients	Description of hydraulic conditions Horizontal and vertical hydraulic gradients
6.4	Hydraulic Conductivity	Hydraulic conductivity determination Groundwater flow velocity
6.5	Soil Texture	Rationale for using the Standards for fine-medium textured soil
6.6	Soil: Field Screening	Discussion of field screening results
6.7	Soil Quality	Location and depths of soil samples Evaluation of soil analytical data compared to MECP Table 3 and Table 7 Standards (Table 6)
6.8	Groundwater Quality	Locations and depths of groundwater samples Evaluation of groundwater analytical data compared to MECP Table 3 and Table 7 Standards (Table 7) Evidence to demonstrate no presence of NAPL
6.9	Sediment Quality	No water bodies located on the Property. No sediment samples collected.
6.10	QA/QC Results	Review and summary of QA/QC analytical data
6.11	Phase Two Conceptual Site Model	Description of PCAs and APECs Potential contaminant distribution and transport pathways Geology and hydrogeology

5.1 Geology

The interpreted geological conditions at the Site are based on the review of the stratigraphic logs from the Phase Two ESA completed by GHD.

In general, the stratigraphy encountered at the Site consisted of fill material (mix of sand and gravel, and silty clay material up to a maximum depth of approximately 2.3 mBGS (at BH7-22). The native soils underlying the fill consist of primarily silty clay/sandy silty clay up to a maximum depth of approximately 4.0 mBGS (at BH11-22). Weathered shale bedrock was encountered below the native soils, at depths ranging from 2.3 mBGS to 4.0 mBGS.

5.2 Groundwater Elevations and Flow Direction

The interpreted hydrogeological conditions at the Site are based on a review of the stratigraphic logs and groundwater elevations for the Site. The monitoring well completion details are provided in **Table 2** and a summary of the groundwater level measurements and elevations is provided in **Table 4**.

GHD measured the depth to groundwater and completed a check for the presence of any NAPL at each monitoring well on June 17, 2022. The depth to groundwater was measured relative to a specific reference point for the monitoring well (i.e., the top of the monitoring well casing).

Based on the water levels collected on June 17, 2022, the groundwater table is present at depths ranging from 0.42 mBGS at MW3-22 to 2.96 mBGS at MW1-22. The elevations of the groundwater table vary from 96.149 mASD at MW1-22 to 98.83 mASD at MW3-22.

Groundwater elevation contours are presented on **Figure 3**. The groundwater elevation contours indicate that groundwater flow is generally in a northwesterly direction. It should be noted that the groundwater elevation obtained from MW3-22 may be an anomaly and was not used in the groundwater contour calculations.

NAPL was not encountered at any of the monitoring well locations.

5.3 Groundwater Hydraulic Gradients

The horizontal hydraulic gradient across the Site, based on groundwater elevations, is approximately 0.018 metres per metre (m/m). Vertical hydraulic gradients could not be assessed as no monitoring well nests or deeper screened monitoring wells were installed at the Site.

5.4 Hydraulic Conductivity

Hydraulic conductivity values (commonly referred to as k-values) for the stratigraphic units were estimated using generally accepted ranges[6] for the stratigraphic conditions observed and recorded by field personnel. Based on GHD's experience, the estimated soil hydraulic conductivity range is as follow:

– Sand and gravel fill, and clay/silt mixtures: estimated to be less than 10^{-5} centimetres per second (cm/s)

5.5 Soil Texture

Soil grain size analysis (soil hydrometer analysis) was completed as part of the preliminary geotechnical investigation. Findings and conclusions of the preliminary geotechnical investigation are documented under a separate cover. Based on the soil hydrometer analysis, the soils at the Site would be determined as medium to fine textured soils.

5.6 Soil: Field Screening

During borehole advancement, GHD completed soil field screening by monitoring the soil samples for organic vapours with a PID and documenting any visual or olfactory evidence of potential impacts, as discussed in Section 5.3.

The results of the soil field screening and corresponding sample depth intervals are provided on the stratigraphic and instrumentation logs provided in **Appendix A**.

All PID readings were noted to be less than 5 ppm during the Phase Two ESA.

5.7 Soil Quality

A total of 30 soil samples (including 8 field duplicate samples) were collected and submitted for chemical analysis of one or more of the following parameters during the Phase Two ESA completed at the Site:

– Metals.
– Inorganics (EC, SAR, Cyanide and pH).
– Polycyclic aromatic hydrocarbons (PAHs).

[6] Freeze, R.A., and Cherry, J.A., 1979, Groundwater: Englewood Cliffs, NJ, Prentice-Hall, 604 p

– Petroleum hydrocarbon (PHC) fractions F1 to F4
– Volatile organic compounds (VOCs)
– Polychlorinated Biphenyls (PCBs)

A summary of the investigative locations associated with each APEC is provided below:

Area of Potential Environmental Concern	Contaminants of Potential Concern in Soil	Investigative Locations
APEC #1 : Site Wide a) Fill Material of Unknown Quality b) Historical Spill, and c) Historical Waste Management and Disposal Company Operations	VOCs, PHCs, PAHs, metals and inorganics, PCBs	MW1-22 through MW4-22 BH1-22 through BH14-22
APEC #2: On-Site Garage Operations (including in-ground hoists, trench drains, oil/water separator, and chemical storage, ASTs)	VOCs, PHCs, PAHs, metals & inorganics	MW1-22 through MW3-22 BH4-22
APEC #3: Fuel Oil Storage Tank (Residential Dwelling)	PHCs, BTEX	BH13-22
APEC #4: 2526 Cawthra Road (Adjacent Property to the east) Automotive Collision Centre	N/A	MW4-22 BH14-22
APEC #5: 560 Hensall Circle (Adjacent Historical Property to the west) – Fuel Outlet with Storage Tanks and Historical Paper and Ink Processing Facility	N/A	MW1-22 BH1-22, BH2-22
APEC #6: 645 Needham Lane (Adjacent Property to the south) Plastic Manufacturing	N/A	MW2-22 through MW4-22 BH2-22, BH9-22, BH11-22
APEC #7: 705&709 Needham Lane (Historical Trucking & Container Storage)	N/A	BH1-22, BH3-22, BH5-22, BH7-22, BH10-22, BH12-22 and BH14-22

The following parameters had values/concentrations above the Table 3 Generic Standards and are identified as COCs at the Site:

– **Metals:** Arsenic, Cadmium, Chromium, Lead, Vanadium and Zinc.
– **Inorganics**: pH and Sodium Adsorption Ratio (SAR).
– **PAHs:** Acenaphthylene, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b/j)fluoranthene, Benzo(k)fluoranthene, Chrysene, Dibenz(a,h)anthracene, Fluoranthene, Indeno(1,2,3-cd)pyrene and Phenanthrene.
– **PHCs:** PHC fractions F3 and F4G.

A summary of the soil analytical data with respect to the APECs investigated is provided below:

– **APEC #1 – Fill Quality, Historical Spill, and Historical Waste Management and Disposal:** certain metals, inorganics, PAHs and PHCs parameters as listed above were detected at concentrations above the Table 3 Standards in the soil samples collected mostly between 0 to 1.4 mBGS at several borehole locations across the Site. See **Figures 4 to 6** for reference. It should be noted that for BH11-22, concentrations of PHC F4G above the Table 3 Standards were identified from soils as deep as 2.1 mBGS. The elevated concentrations of the above parameters are likely related to the fill material present at the Site, as well as historical land uses (waste

management and disposal facility. Although the vertical extent is not fully known, it is likely that impacts are generally limited to the historic fill placed at the Site.

As previously discussed in Section 1.4, The soil pH in surface soils (0 to 1.5 mBGS) was outside the acceptable range of 5 and 9, as outlined in Section 41 of O. Reg. 153/04. A total of 11 out of 18 submitted surface soil samples collected between 0 and 0.6 mBGS contained soil pH values ranging from 9.5 to 11.1. Vertical delineation of the elevated pH values has not been achieved during this Phase Two ESA. However, since this Phase Two ESA was being undertaken in support of due diligence purposes for the potential acquisition of the property and the filing of an RSC is not a requirement, it is GHD's opinion that considering the site as an environmentally sensitive area and thus assessing the laboratory analytical results to Table 1: Full Depth Background Site Condition Standards are not applicable for the Site at this time.

The maximum concentrations of the COCs in soil at the Site are presented below:

Parameters	Sample Location	Maximum Concentration
Arsenic	BH3-22 (0 – 0.6 mBGS)	406 ug/g
Cadmium	BH3-22 (0 – 0.6 mBGS)	4.42 ug/g
Chromium	BH2-22 (0 – 0.3 mBGS)	176 ug/g
Lead	BH10-22 (0 – 0.6 mBGS)	286 ug/g
Vanadium	BH7-22 (0 – 0.6 mBGS)	387 ug/g
Zinc	BH10-22 (0 – 0.6 mBGS)	1,310 ug/g
pH	BH8-22 (0 – 0.6 mBGS)	11.1
Sodium Adsorption Ratio (SAR)	BH14-22 (0.8 – 1.4 mBGS)	16.6
Acenaphthylene	BH11-22 (0 – 0.6 mBGS)	0.570 ug/g
Anthracene	BH11-22 (0 – 0.6 mBGS)	8.21 ug/g
Benzo(a)anthracene	BH11-22 (0 – 0.6 mBGS)	17.6 ug/g
Benzo(a)pyrene	BH11-22 (0 – 0.6 mBGS)	14.8 ug/g
Benzo(b/j)fluoranthene	BH11-22 (0 – 0.6 mBGS)	15.8 ug/g
Benzo(k)fluoranthene	BH11-22 (0 – 0.6 mBGS)	8.73 ug/g
Chrysene	BH11-22 (0 – 0.6 mBGS)	15.4 ug/g
Dibenz(a,h)anthracene	BH11-22 (0 – 0.6 mBGS)	2.28 ug/g
Fluoranthene	BH11-22 (0 – 0.6 mBGS)	39.1 ug/g
Indeno(1,2,3-cd)pyrene	BH11-22 (0 – 0.6 mBGS)	7.76 ug/g
Phenanthrene	BH11-22 (0 – 0.6 mBGS)	30.7 ug/g
PHC fraction F3	BH4-22 (0 – 0.6 mBGS)	2,790 ug/g
PHC fraction F4G	BH4-22 (0 – 0.6 mBGS)	15,800 ug/g

5.8 Groundwater Quality

A total of four (4) groundwater samples [along with one (1) field duplicate sample] were collected and submitted for chemical analysis of one or more the following parameters during the Phase Two ESA completed at the Site:

– Metals.
– Inorganics (chloride and cyanide).
– PAHs.
– PHC fractions F1 to F4.

– VOCs.
– PCBs.

A summary of the investigative locations associated with each APEC is provided below:

Area of Potential Environmental Concern	Contaminants of Potential Concern in Groundwater	Investigative Locations
APEC #1 : Site Wide a) Fill Material of Unknown Quality b) Historical Spill, and c) Historical Waste Management and Disposal Company Operations	VOCs, PHCs, PAHs, metals and inorganics, PCBs	MW1-22 through MW4-22
APEC #2: On-Site Garage Operations (including in-ground hoists, trench drains, oil/water separator, and chemical storage, ASTs)	VOCs, PHCs, PAHs, metals & inorganics	MW1-22 through MW3-22
APEC #3: Fuel Oil Storage Tank (Residential Dwelling)	N/A	N/A
APEC #4: 2526 Cawthra Road (Adjacent Property to the east) Automotive Collision Centre	VOCs, PHCs	MW4-22
APEC #5: 560 Hensall Circle (Adjacent Historical Property to the west) – Fuel Outlet with Storage Tanks and Historical Paper and Ink Processing Facility	VOCs, PHCs, PAHs, metals & inorganics	MW1-22
APEC #6: 645 Needham Lane (Adjacent Property to the south) Plastic Manufacturing	VOCs, PHCs, PAHs, metals & inorganics	MW2-22 through MW4-22
APEC #7: 705 & 709 Needham Lane (Historical Trucking & Container Storage)	PHCs, BTEX, PAHs, metals & inorganics	N/A

All groundwater samples submitted for laboratory analysis had concentrations below the Table 3 and Table 7 Generic Standards for all parameters analyzed.

Based on the above, no COCs were identified in groundwater and there is no evidence of groundwater impacts identified at the monitoring well locations at the Site.

It should be noted that the contaminants of potential concern in groundwater for APEC #7 were not investigated in this Phase Two ESA. However, according to the groundwater elevation contours obtained on June 17, 2022, the groundwater flow is generally in a northwesterly direction. Based on the estimated groundwater flow direction, the adjacent property to the north (705 & 709 Needham Lane) is considered to be down-gradient of the Site, and is considered to be low risk. It is recommended that further groundwater level measurements be collected from the monitoring well locations to confirm groundwater flow direction at the Site.

5.9 Sediment Quality

Sediment sampling was not completed during the Phase Two ESA as no surface water bodies are located on the Site.

5.10 Quality Assurance and Quality Control (QA/QC) Results

A total of eight soil field duplicate samples and two groundwater field duplicate samples were analyzed during the Phase Two ESA. One trip blank sample was submitted for each soil and groundwater sample submission that contained samples to be analyzed for either PHC fraction F1 or VOCs.

To validate the analytical results, QC samples were analyzed by the laboratory as required by their analytical methods. In addition, following receipt of the analytical data from the laboratory, GHD completed a data quality assessment and validation. The evaluation of the analytical data is based on the QA/QC information provided by laboratory including laboratory blank data, laboratory duplicate data, and laboratory surrogate spike and check recovery data as well as sample holding times, field duplicate/blank analysis and reagent blank analysis. Based on the data review, the analytical data is considered acceptable for use.

5.11 Phase Two Conceptual Site Model

The following presents a Conceptual Site Model (CSM) of the Phase Two Environmental Site Assessment (ESA) Property located at 2524 Cawthra Road in Mississauga, Ontario (Site or Property).

5.11.1 Introduction

The Site consists of a parcel of land totaling approximately 0.62 hectares (1.5 acres) identified as parcel identification number (PIN): 13345-0060 LT (2524 Cawthra Road). A Site Location is shown on **Figure 1**.

GHD previously completed a Phase One ESA of the Site in December 2020. The results of GHD's Phase One ESA are summarized in the report entitled "Phase One Environmental Site Assessment, 2524 Cawthra Road, Mississauga, Ontario," prepared for City of Mississauga, dated December 14, 2020.

This Phase Two ESA was completed by GHD to investigate soil and groundwater quality at the Site associated with the APECs identified during the Phase One ESA. The Phase Two ESA activities completed at the Site included the following:

– Completion of public and private utility locates.
– Advancement of boreholes.
– Installation of groundwater monitoring wells.
– Collection of field measurements and observations for screening soil.
– Collection of soil and groundwater samples.
– Field measurements of groundwater quality parameters.
– Hydraulic monitoring [groundwater level measurements and measurements for non-aqueous phase liquid (NAPL), if present].
– Quality assurance and quality control (QA/QC) measures.
– Elevation Surveying.
– Analytical testing.

A summary of the APECs identified at the Site and the associated PCAs is provided in the section below.

5.11.2 Potentially Contaminating Activities and Areas of Potential Environmental Concern

The purpose of the Phase Two ESA was to investigate the APECs identified in the Phase One ESA. The objective of the Phase Two ESA was to investigate soil and groundwater quality, as applicable, in the APECs identified at the Site. A summary of the APECs identified at the Site and associated PCA(s) is provide below:

Area of Potential Environmental Concern[1]	Location of Area of Potential Environmental Concern on Phase One Property	Potentially Contaminating Activity[2]	Location of PCA (on-Site or off-Site)
APEC #1 : Site Wide d) Fill Material of Unknown Quality e) b) Historical Spill, and f) c)Historical Waste Management and Disposal Company Operations	Entire Site	#30 – Importation of Fill Material of Unknown Quality #58 – Waste Disposal and Waste Management Including Thermal Treatment, Landfilling and Transfer of Waste, other than use of Biosoils as Soil Conditioners #A – Historical Spill on Site	On-Site
APEC #2: On-Site Garage Operations (including in-ground hoists, trench drains, oil/water separator, and chemical storage, ASTs)	Automotive Garage and surrounding area (southwestern portion of the Site)	#10 – Commercial Autobody Shop #28 – Gasoline and Associated Products Storage in Fixed Tanks	On-Site
APEC #3: Fuel Oil Storage Tank (Residential Dwelling)	Residential dwelling (eastern portion of the Site)	#28 - Gasoline and Associated Products Storage in Fixed Tanks	On-Site
APEC #4: 2526 Cawthra Road (Adjacent Property to the east) Automotive Collision Centre	Eastern portion of the Site	#10 – Commercial Autobody Shop	Off-Site
APEC #5: 560 Hensall Circle (Adjacent Historical Property to the west) – Fuel Outlet with Storage Tanks and Historical Paper and Ink Processing Facility	Western portion of the Site	#28 - Gasoline and Associated Products Storage in Fixed Tanks #31 - Ink Manufacturing, Processing and Bulk Storage #45 – Pulp, Paper, and Paperboard Manufacturing and Processing	Off-Site
APEC #6: 645 Needham Lane (Adjacent Property to the south) Plastic Manufacturing	Southern portion of the Site	#43 – Plastics (Including Fiberglass) Manufacturing and Processing	Off-Site
APEC #7: 705&709 Needham Lane (Historical Trucking & Container Storage)	Northern portion of the Site	#11 – Commercial Trucking and Container Terminals	Off-Site

Additional details regarding the APECs identified to be associated with the Site are provided below:

1. **APEC #1 - Fill Quality, Historical Spill, and Historical Waste Management and Disposal (Entire Site):**

   Based on the findings of the Phase One ESA, fill of unknown quality is likely present on Site. b) A historical fire also occurred on Site in 1993 resulting in a release of oily water and confirmed soil impacts. c) The Site has also been used for various industrial/commercial purposes in the past and was occupied by a waste management and disposal company (DiCarlo Disposal & Pallet Company). The following PCAs, as defined by O. Reg. 153/04, were identified to be associated with the entire Site and identified as **APEC #1**:

   a) PCA # 30 – Importation of Fill of Unknown Quality
   b) PCA #A – Historical 1993 release
   c) PCA #58 – Historical Waste Management and Disposal, Including Thermal Treatment, Landfilling and Transfer of Waste, Other Than Use of Biosoils as Soil Conditioners

2. **APEC #2 – Garage Operations, with Oil Water Separator and Above Ground Storage Tank (On-Site):**

   Based on the findings of the Phase One ESA, the Site was developed with an automotive garage in the 1960's, with an addition to the garage during the 1980's. Historical operations included sandblasting and spray-painting operations. Trench drains, out-of-use in-ground hoists, and an oil/water separator are located within the garage. A waste oil AST is located within a storage container to the north of the exterior wall of the garage. The following PCAs, as defined by O. Reg. 153/04, were identified to be associated with the southwestern portion of the Site and identified as **APEC #2:**

   a) PCA #10 – Commercial Autobody Shops
   b) PCA #28 - Gasoline and Associated Products Storage in Fixed Tanks

3. **APEC #3 – Residential Dwelling with an Above Ground Storage Tank (On-Site):**

   Access to the residential dwelling was not available at the time of the Site inspection. However, based on a review of the 1997 records identified through Opta Information Intelligence (OPTA), the residential dwelling was historically heated by fuel oil, which was stored in a 1,137-litre AST located in the basement. Based on discussion with Site personnel, the residential dwelling is reportedly heated by natural gas. The operation of a fuel oil AST on Site was identified as a PCA as defined by O. Reg. 153/04 (#28 - Gasoline and Associated Products Storage in Fixed Tanks) and the eastern portion of the Site was identified as **APEC #3**.

4. **APEC #4 - 2526 Cawthra Road (Adjacent Property to the East):**

   Based on the findings of the Phase One ESA, an automotive collision centre is operated at 2526 Cawthra Road, an adjacent property to the east of the Site. The operation of an automotive collision centre to the east of the Site was identified as a PCA as defined by O. Reg. 153/04 (#10 – Commercial Autobody Shop) and the eastern portion of the Site was identified as **APEC #4**.

5. **APEC #5 – 560 Hensall Circle (Adjacent Property to the West):**

   Based on a review of the ERIS database report, the adjacent property to west was historically occupied by paper and ink manufacturing businesses. In addition, a private 22,700 litre UST was reportedly operated on the property in the past. The historical operations at 560 Hensall Circle were identified as PCAs as defined by O. Reg. 153/04 (PCA #28 – Gasoline and Associated Products Storage in Fixed Tanks, PCA #31 – Ink Manufacturing, Processing and Bulk Storage and PCA #45 – Pulp, Paper and Paperboard Manufacturing and Processing) that have the potential to contribute to an APEC on Site and the western boundary of the Site was identified as **APEC #5**.

6. **APEC #6 – 645 Needham Lane (Adjacent Property to the South):**

   Based on a review of the ERIS database report and Site observations, the adjacent property to the south of the Site (645 Needham Lane) has been occupied by a plastic manufacturing company (Hinspergers Poly Industries Ltd). Due to the proximity to the Site, the operations on the adjacent property to the south of the Site were identified as a PCA as defined by O. Reg. 153/04 (#43 – Plastics (including Fibreglass) Manufacturing and

Processing) that has the potential to contribute to an APEC on the Site and the southern boundary of the Site was identified as **APEC #6**.

7. **APEC #7 – 705&709 Needham Lane (Adjacent Property to the North):**

   Based on a review of the ERIS database report and Site observations, the adjacent property to the north of the Site (707/709 Needham Lane) was historically occupied by Ryder Truck Centre Due to the proximity to the Site, the operations on the adjacent property to the north of the Site were identified as a PCA as defined by O. Reg. 153/04 (#11 – Commercial Trucking and Container Terminals) that has the potential to contribute to an APEC on the Site and the northern boundary of the Site was identified as **APEC #7**.

5.11.3 Potential Contaminant Distribution and Transport Pathways

Underground utilities at the Site include storm and sanitary sewers, natural gas, electrical power, and telecommunication lines. No other preferential migration pathways were identified.

Based on the results of the Phase Two ESA, the soil impacts (summarized in Section 1.1.5) appeared to be located within the fill material of the Site. In addition, no contaminants of concern were identified in groundwater at the Site.

There was no indication that climate or meteorological conditions have influenced the distribution or migration of the COCs.

5.11.4 Geology and Hydrogeology

Geological Characteristics

In general, the stratigraphy encountered at the Site consisted of fill that is a mix of sand and gravel, and silty clay up to a maximum depth of approximately 2.3 mBGS (at BH7-22). The native soils underlying the fill consist of primarily silty clay/sandy silty clay up to a maximum depth of approximately 4.0 mBGS (at BH11-22). Weathered shale bedrock was encountered below the native soils, at depths ranging from 2.3 mBGS to 4.0 mBGS.

Groundwater was encountered in the monitoring wells installed at the Site, ranging from 0.4 mBGS (in MW3-22) to 2.96 mBGS (in MW1-22).

Hydrogeological Characteristics

The June 17, 2022, groundwater level measurements indicate that the shallow groundwater table is present at depths ranging from 0.42 mBGS at MW3-22 to 2.96 mBGS at MW1-22. The elevations of the groundwater table vary from 96.149 mASD at MW1-22 to 98.83 mASD at MW3-22.

Based on the groundwater elevation contours on **Figure 3**, groundwater flows in a generally northwesterly direction. NAPL was not encountered at any of the monitoring well locations.

5.11.5 Nature and Extent of Impacts

Based on the findings of the Phase Two ESA, the soil and groundwater analytical results were assessed to the following Standards:

– Table 3: Full Depth Site Condition Standards in a Non-Potable Ground Water Condition (MECP Table 3 Standards); and,
– Table 7: Generic Site Condition Standards for Shallow Soils in a Non-Potable Ground Water Condition (MECP Table 7 Standards) for VOCs only.

There was no indication that climate or meteorological conditions have influenced the distribution or migration of any COCs. A summary of the soil and groundwater quality at the Property is provided below:

Soil Quality

A total of 30 soil samples (including 8 field duplicate samples) were collected and submitted for chemical analysis of one or more of the following parameters during the Phase Two ESA completed at the Site:

– Metals.
– Inorganics (EC, SAR, Cyanide and pH).
– Polycyclic aromatic hydrocarbons (PAHs).
– Petroleum hydrocarbon (PHC) fractions F1 to F4.
– Volatile organic compounds (VOCs).
– Polychlorinated Biphenyls (PCBs).

A summary of the investigative locations associated with each APEC is provided below:

Area of Potential Environmental Concern	Contaminants of Potential Concern in Soil	Investigative Locations
APEC #1 : Site Wide g) Fill Material of Unknown Quality h) Historical Spill, and i) Historical Waste Management and Disposal Company Operations	VOCs, PHCs, PAHs, metals and inorganics, PCBs	MW1-22 through MW4-22 BH1-22 through BH14-22
APEC #2: On-Site Garage Operations (including in-ground hoists, trench drains, oil/water separator, and chemical storage, ASTs)	VOCs, PHCs, PAHs, metals & inorganics	MW1-22 through MW3-22 BH4-22
APEC #3: Fuel Oil Storage Tank (Residential Dwelling)	PHCs, BTEX	BH13-22
APEC #4: 2526 Cawthra Road (Adjacent Property to the east) Automotive Collision Centre	N/A	MW4-22 BH14-22
APEC #5: 560 Hensall Circle (Adjacent Historical Property to the west) – Fuel Outlet with Storage Tanks and Historical Paper and Ink Processing Facility	N/A	MW1-22 BH1-22, BH2-22
APEC #6: 645 Needham Lane (Adjacent Property to the south) Plastic Manufacturing	N/A	MW2-22 through MW4-22 BH2-22, BH9-22, BH11-22
APEC #7: 705&709 Needham Lane (Historical Trucking & Container Storage)	N/A	BH1-22, BH3-22, BH5-22, BH7-22, BH10-22, BH12-22 and BH14-22

The following parameters had values/concentrations above the Table 3 Generic Standards and are identified as COCs at the Site:

– **Metals:** Arsenic, Cadmium, Chromium, Lead, Vanadium and Zinc.
– **Inorganics**: pH and Sodium Adsorption Ratio (SAR).
– **PAHs:** Acenaphthylene, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b/j)fluoranthene, Benzo(k)fluoranthene, Chrysene, Dibenz(a,h)anthracene, Fluoranthene, Indeno(1,2,3-cd)pyrene and Phenanthrene.
– **PHCs:** PHC fractions F3 and F4G.

A summary of the soil analytical data with respect to the APECs investigated is provided below:

– **APEC #1 – Fill Quality, Historical Spill, and Historical Waste Management and Disposal:** certain metals, inorganics, PAHs and PHCs parameters as listed above were detected at concentrations above the Table 3 Standards in the soil samples collected mostly between 0 to 1.4 mBGS at several borehole locations across the Site. See **Figures 4 to 6** for reference. It should be noted that for BH11-22, concentrations of PHC F4G above the Table 3 Standards were identified from soils as deep as 2.1 mBGS. The elevated concentrations of the above parameters are likely related to the fill material present at the Site, as well as historical land uses (waste management and disposal facility). Although the vertical extent is not fully known, it is likely that impacts are generally limited to the historic fill placed at the Site.

Groundwater Quality

A total of four (4) groundwater samples [along with one (1) field duplicate sample] were collected and submitted for chemical analysis of one or more the following parameters during the Phase Two ESA completed at the Site:

– Metals.
– Inorganics (chloride and cyanide).
– PAHs.
– PHC fractions F1 to F4.
– VOCs.
– PCBs.

A summary of the investigative locations associated with each APEC is provided below:

Area of Potential Environmental Concern	Contaminants of Potential Concern in Groundwater	Investigative Locations
APEC #1 : Site Wide d) Fill Material of Unknown Quality e) Historical Spill, and f) Historical Waste Management and Disposal Company Operations	VOCs, PHCs, PAHs, metals and inorganics, PCBs	MW1-22 through MW4-22
APEC #2: On-Site Garage Operations (including in-ground hoists, trench drains, oil/water separator, and chemical storage, ASTs)	VOCs, PHCs, PAHs, metals & inorganics	MW1-22 through MW3-22
APEC #3: Fuel Oil Storage Tank (Residential Dwelling)	N/A	N/A
APEC #4: 2526 Cawthra Road (Adjacent Property to the east) Automotive Collision Centre	VOCs, PHCs	MW4-22
APEC #5: 560 Hensall Circle (Adjacent Historical Property to the west) – Fuel Outlet with Storage Tanks and Historical Paper and Ink Processing Facility	VOCs, PHCs, PAHs, metals & inorganics	MW1-22
APEC #6: 645 Needham Lane (Adjacent Property to the south) Plastic Manufacturing	VOCs, PHCs, PAHs, metals & inorganics	MW2-22 through MW4-22
APEC #7: 705&709 Needham Lane (Historical Trucking & Container Storage)	PHCs, BTEX, PAHs, metals & inorganics	N/A

All groundwater samples submitted for laboratory analysis met the MECP Table 3 and Table 7 Standards for all parameters analyzed.

Based on the above, no COCs were identified in groundwater and there is no evidence of groundwater impacts identified at the monitoring well locations at the Site.

It should be noted that the contaminants of potential concern in groundwater for APEC #7 were not investigated in this Phase Two ESA. However, according to the groundwater elevation contours obtained on June 17, 2022, the groundwater flow is generally in a northwesterly direction. Based on the estimated groundwater flow direction, the adjacent property to the north (705 & 709 Needham Lane) is considered to be down-gradient of the Site and is considered to be low risk. It is recommended that further groundwater level measurements be collected from the monitoring well locations to confirm groundwater flow direction at the Site.

6. Conclusions

Based on the results of the Phase Two ESA, the following parameters had values/concentrations above the Table 3 Generic Standards and are identified as COCs in the soil at the Site:

- **Metals:** Arsenic, Cadmium, Chromium, Lead, Vanadium and Zinc.
- **Inorganics**: pH and Sodium Adsorption Ratio (SAR).
- **PAHs:** Acenaphthylene, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b/j)fluoranthene, Benzo(k)fluoranthene, Chrysene, Dibenz(a,h)anthracene, Fluoranthene, Indeno(1,2,3-cd)pyrene and Phenanthrene.
- **PHCs:** PHC fractions F3 and F4G.

A summary of the soil analytical data with respect to the APECs investigated is provided below:

- **APEC #1 – Fill Quality, Historical Spill, and Historical Waste Management and Disposal:** certain metals, inorganics, PAHs and PHCs parameters as listed above were detected at concentrations above the Table 3 Standards in the soil samples collected mostly between 0 to 1.4 mBGS at several borehole locations across the Site. See **Figures 4 to 6** for reference. It should be noted that for BH11-22, concentrations of PHC F4G above the Table 3 Standards were identified from soils as deep as 2.1 mBGS. The elevated concentrations of the above parameters are likely related to the fill material present at the Site, as well as historical land uses (waste management and disposal facility. Although the vertical extent is not fully known, it is likely that impacts are generally limited to the historic fill placed at the Site.

All groundwater samples submitted for laboratory analysis met the MECP Table 3 and Table 7 Standards for all parameters analyzed.

All of Which is Respectfully Submitted,

GHD

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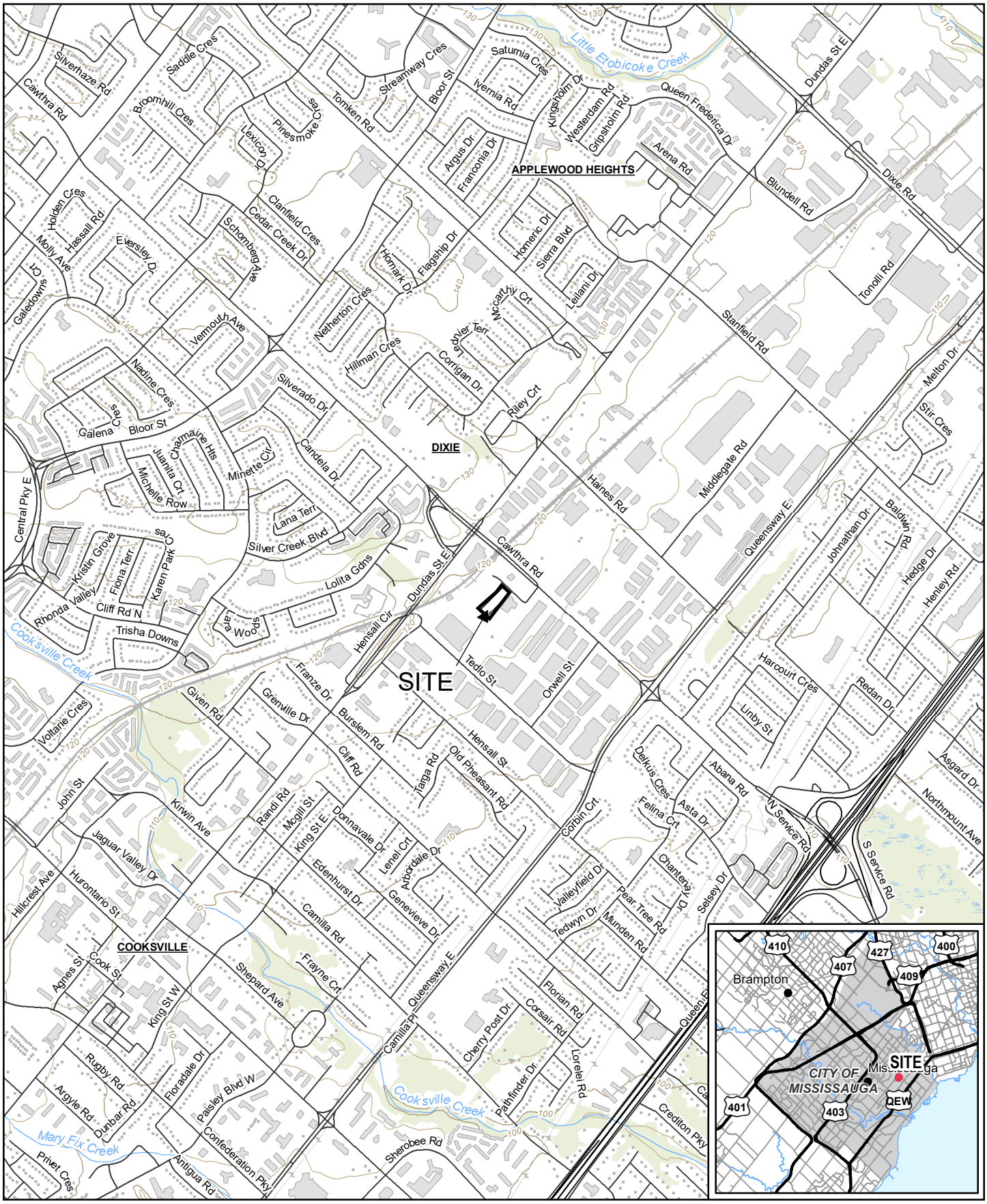
Thomas Guoth, P. Eng.

Figures



Paper Size ANSI A

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Metres

Map Projection: Transverse Mercator
Horizontal Datum: North American 1983
Grid: NAD 1983 UTM Zone 17N

N

GHD

THE CORPORATION OF THE CITY OF MISSISSAUGA
2524 CAWTHRA ROAD, MISSISSAUGA, ONTARIO
PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

Project No. **12581540**
Revision No. **-**
Date **May 13, 2022**

SITE LOCATION MAP

FIGURE 1

Q:\GIS\PROJECTS\12581000s\12581540\Layouts\
Print date: 13 May 2022 - 09:43

LEGEND

- PROPERTY BOUNDARY
- ABOVE GROUND STORAGE TANK
- BOREHOLE LOCATION (UP TO 2.5 mBGS)
- BOREHOLE LOCATION (UP TO 6.0 mBGS)
- MONITORING WELL LOCATION (UP TO 6.0 mBGS)

0 7.5 15 22.5m

1:750

Coordinate System:
UTM with NAD83 datum, Zone 17, Meter

Plan North

N

GHD

THE CORPORATION OF THE CITY OF MISSISSAUGA
2524 CAWTHRA ROAD, MISSISSAUGA, ONTARIO
PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

SITE PLAN & INVESTIGATIVE LOCATIONS

Project No. **12581540**
Date **November 2022**

FIGURE 2

Filename: N:\CA\Mississauga\Projects\662\12581540\Digital_Design\ACAD\Figures\LTR002\12581540-GHD-00-00-LTR-EN-D101_WA-002.DWG
Plot Date: 15 November 2022 8:06 AM

ON-SITE PCAs POTENTIALLY CONTRIBUTING TO APECs ON THE SITE
PCA #10 – COMMERCIAL AUTOBODY SHOPS
PCA #11 – COMMERCIAL TRUCKING AND CONTAINER TERMINALS
PCA #12 – CONCRETE, CEMENT AND LIME MANUFACTURING
PCA #28 – GASOLINE AND ASSOCIATED PRODUCTS STORAGE IN FIXED TANKS
PCA #30 – IMPORTATION OF FILL MATERIAL OF UNKNOWN QUALITY
PCA #31 – INK MANUFACTURING, PROCESSING AND BULK STORAGE
PCA #43 – PLASTICS (INCLUDING FIBREGLASS) MANUFACTURING AND PROCESSING
PCA #45 – PULP, PAPER AND PAPERBOARD MANUFACTURING AND PROCESSING

PCA #58 – WASTE DISPOSAL AND WASTE MANAGEMENT, INCLUDING THERMAL TREATMENT, LANDFILLING AND TRANSFER OF WASTE, OTHER THAN USE OF BIOSOILS AS SOIL CONDITIONERS
PCA #A – HISTORICAL SPILL ON SITE

LEGEND

PROPERTY BOUNDARY

ABOVE GROUND STORAGE TANK

APEC #1
- FILL QUALITY (ENTIRE SITE) (PCA #30)
- HISTORICAL SPILL (ENTIRE SITE) (PCA #A)
- HISTORICAL WASTE MANAGEMENT AND DISPOSAL (DICARLO EUGENE DISPOSAL) (ENTIRE SITE) (PCA #58)

APEC #2
- GARAGE AND MAINTENANCE AREA, WITH OIL WATER SEPARATOR (PCA #10)
- ABOVE GROUND STORAGE TANK (PCA #28)

APEC #3
- RESIDENTIAL HOME - ABOVE GROUND STORAGE TANK (PCA #28)

APEC #4
- ·2526 CAWTHRA ROAD - AUTOMOTIVE COLLISION CENTRE (PCA #10)

APEC #5
- 560 HENSALL CIRCLE HISTORICAL OPERATIONS - FUEL OUTLET WITH STORAGE TANKS (PCA #28)
- 560 HENSALL CIRCLE OPERATIONS - HISTORICAL PAPER AND INK PROCESSING FACILITY (PCA # 45 AND 31)

APEC #6
- 645 NEEDHAM LANE (PLASTICS MANUFACTURING (PCA # 43)

APEC #7
- 705/709 NEEDHAM LANE - HISTORICAL TRUCKING AND CONTAINER STORAGE (PCA #11)

0 7.5 15 22.5m

1:750

Coordinate System:
UTM with NAD83 datum, Zone 17, Meter

N

GHD

THE CORPORATION OF THE CITY OF MISSISSAUGA
2524 CAWTHRA ROAD, MISSISSAUGA, ONTARIO
PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

PHASE ONE CONCEPTUAL SITE MODEL

Project No. **12581540**
Date **November 2022**

FIGURE 3

Filename: N:\CA\Mississauga\Projects\662\12581540\Digital_Design\ACAD\Figures\LTR002\12581540-GHD-00-00-LTR-EN-D106_WA-002.DWG
Plot Date: 15 November 2022 8:06 AM

LEGEND

- PROPERTY BOUNDARY
- ABOVE GROUND STORAGE TANK
- BOREHOLE LOCATION (UP TO 2.5 mBGS)
- BOREHOLE LOCATION (UP TO 6.0 mBGS)
- MONITORING WELL LOCATION (UP TO 6.0 mBGS)
- (96.15) GROUNDWATER ELEVATION (MSL)
- 97.50 GROUNDWATER ELEVATION CONTOUR,
- GROUNDWATER FLOW DIRECTION
- * MONITORING WELL NOT USED IN CONTOURING

0 7.5 15 22.5m

1:750

Coordinate System:
UTM with NAD83 datum, Zone 17, Meter

Plan North

N

GHD

THE CORPORATION OF THE CITY OF MISSISSAUGA
2524 CAWTHRA ROAD, MISSISSAUGA, ONTARIO
PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

GROUNDWATER ELEVATION CONTOURS
JUNE 17, 2022

Project No. 12581540
Date November 2022

FIGURE 4

Filename: N:\CA\Mississauga\Projects\662\12581540\Digital_Design\ACAD\Figures\LTR002\12581540-GHD-00-00-LTR-EN-D105_WA-002.DWG
Plot Date: 15 November 2022 8:06 AM

LEGEND

- PROPERTY BOUNDARY
- ABOVE GROUND STORAGE TANK
- BOREHOLE LOCATION (UP TO 2.5 mBGS)
- BOREHOLE LOCATION (UP TO 6.0 mBGS)
- MONITORING WELL LOCATION (UP TO 6.0 mBGS)

BH6-22	06/14/2022 0.00-0.60
PHC F3 (C16-C34)	1400
PHC F4 (C34-C50)	3580
PHC F4 gravimetric - silica gel (GHH)	11200

SAMPLE LOCATION
SAMPLE DATE
SAMPLE DEPTH (mBGS)
RESULT
PARAMETER

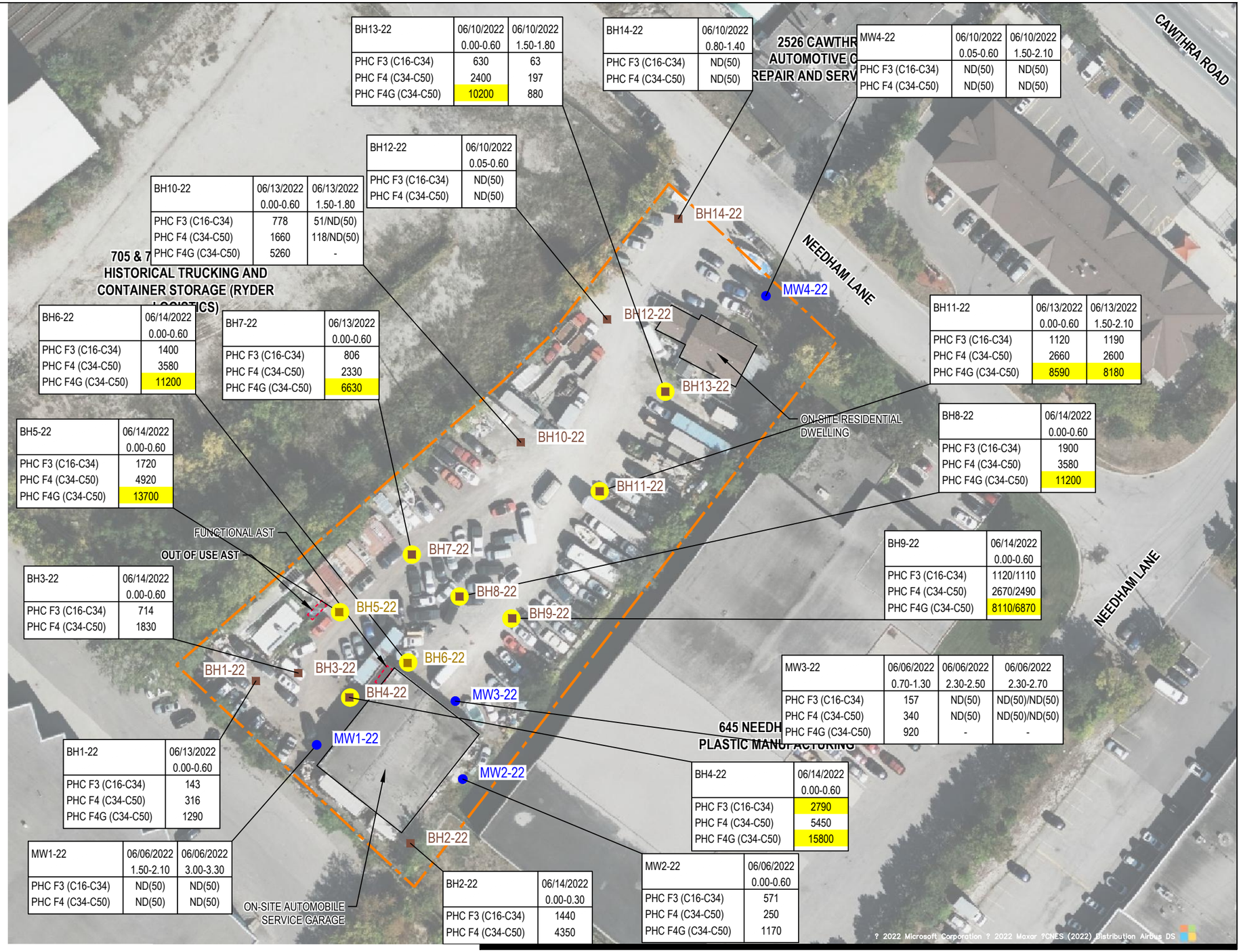
CONCENTRATION ABOVE MOE TABLE 3 & 7 STANDARDS

Parameter	Unit	Criteria Value	
		TABLE 3	TABLE 7
PHC F3 (C16-C34)	ug/g	2500	2500
PHC F4 (C34-C50)	ug/g	6600	6600
PHC F4 gravimetric - silica gel (GHH)	ug/g	6600	6600

NOTE:

(1) ONTARIO MINISTRY OF THE ENVIRONMENT (MOE), "SOIL, GROUND WATER AND SEDIMENT STANDARDS FOR USE UNDER PART XV.1 OF THE ENVIRONMENTAL PROTECTION ACT", DATED APRIL 15, 2011. TABLE 3: FULL DEPTH GENERIC SITE CONDITION STANDARDS IN A NON-POTABLE GROUNDWATER CONDITION FOR INDUSTRIAL/COMMERCIAL/COMMUNITY PROPERTY USE FOR MEDIUM-FINE TEXTURED SOILS

(2) ONTARIO MINISTRY OF THE ENVIRONMENT (MOE), "SOIL, GROUND WATER AND SEDIMENT STANDARDS FOR USE UNDER PART XV.1 OF THE ENVIRONMENTAL PROTECTION ACT", DATED APRIL 15, 2011. TABLE 7: GENERIC SITE CONDITION STANDARDS FOR SHALLOW SOILS IN A NON-POTABLE GROUNDWATER CONDITION FOR INDUSTRIAL/COMMERCIAL/COMMUNITY PROPERTY USE FOR MEDIUM-FINE TEXTURED SOILS



BH13-22	06/10/2022 0.00-0.60	06/10/2022 1.50-1.80
PHC F3 (C16-C34)	630	63
PHC F4 (C34-C50)	2400	197
PHC F4G (C34-C50)	10200	880

BH14-22	06/10/2022 0.80-1.40
PHC F3 (C16-C34)	ND(50)
PHC F4 (C34-C50)	ND(50)

MW4-22	06/10/2022 0.05-0.60	06/10/2022 1.50-2.10
PHC F3 (C16-C34)	ND(50)	ND(50)
PHC F4 (C34-C50)	ND(50)	ND(50)

BH12-22	06/10/2022 0.05-0.60
PHC F3 (C16-C34)	ND(50)
PHC F4 (C34-C50)	ND(50)

BH10-22	06/13/2022 0.00-0.60	06/13/2022 1.50-1.80
PHC F3 (C16-C34)	778	51/ND(50)
PHC F4 (C34-C50)	1660	118/ND(50)
PHC F4G (C34-C50)	5260	-

BH6-22	06/14/2022 0.00-0.60
PHC F3 (C16-C34)	1400
PHC F4 (C34-C50)	3580
PHC F4G (C34-C50)	11200

BH7-22	06/13/2022 0.00-0.60
PHC F3 (C16-C34)	806
PHC F4 (C34-C50)	2330
PHC F4G (C34-C50)	6630

BH11-22	06/13/2022 0.00-0.60	06/13/2022 1.50-2.10
PHC F3 (C16-C34)	1120	1190
PHC F4 (C34-C50)	2660	2600
PHC F4G (C34-C50)	8590	8180

BH8-22	06/14/2022 0.00-0.60
PHC F3 (C16-C34)	1900
PHC F4 (C34-C50)	3580
PHC F4G (C34-C50)	11200

BH5-22	06/14/2022 0.00-0.60
PHC F3 (C16-C34)	1720
PHC F4 (C34-C50)	4920
PHC F4G (C34-C50)	13700

BH9-22	06/14/2022 0.00-0.60
PHC F3 (C16-C34)	1120/1110
PHC F4 (C34-C50)	2670/2490
PHC F4G (C34-C50)	8110/6870

BH3-22	06/14/2022 0.00-0.60
PHC F3 (C16-C34)	714
PHC F4 (C34-C50)	1830

MW3-22	06/06/2022 0.70-1.30	06/06/2022 2.30-2.50	06/06/2022 2.30-2.70
PHC F3 (C16-C34)	157	ND(50)	ND(50)/ND(50)
PHC F4 (C34-C50)	340	ND(50)	ND(50)/ND(50)
PHC F4G (C34-C50)	920	-	-

BH1-22	06/13/2022 0.00-0.60
PHC F3 (C16-C34)	143
PHC F4 (C34-C50)	316
PHC F4G (C34-C50)	1290

BH4-22	06/14/2022 0.00-0.60
PHC F3 (C16-C34)	2790
PHC F4 (C34-C50)	5450
PHC F4G (C34-C50)	15800

MW1-22	06/06/2022 1.50-2.10	06/06/2022 3.00-3.30
PHC F3 (C16-C34)	ND(50)	ND(50)
PHC F4 (C34-C50)	ND(50)	ND(50)

BH2-22	06/14/2022 0.00-0.30
PHC F3 (C16-C34)	1440
PHC F4 (C34-C50)	4350

MW2-22	06/06/2022 0.00-0.60
PHC F3 (C16-C34)	571
PHC F4 (C34-C50)	250
PHC F4G (C34-C50)	1170

0 7.5 15 22.5m
1:750
Coordinate System:
UTM with NAD83 datum, Zone 17, Meter

Plan North

GHD

THE CORPORATION OF THE CITY OF MISSISSAUGA
2524 CAWTHRA ROAD, MISSISSAUGA, ONTARIO
PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

SUMMARY OF SOIL ANALYTICAL RESULTS - PHCs

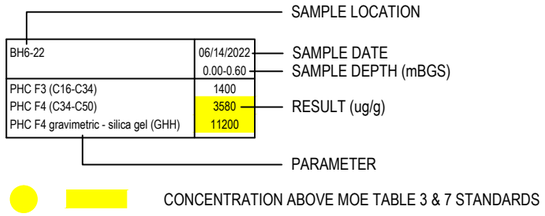
Project No. **12581540**
Date **November 2022**

FIGURE 5

Filename: N:\CA\Mississauga\Projects\662\12581540\Digital_Design\ACAD\Figures\LTR002\12581540-GHD-00-00-LTR-EN-D102_WA-002.DWG
Plot Date: 15 November 2022 8:06 AM

LEGEND

- PROPERTY BOUNDARY
- ABOVE GROUND STORAGE TANK
- BOREHOLE LOCATION (UP TO 2.5 mBGS)
- BOREHOLE LOCATION (UP TO 6.0 mBGS)
- MONITORING WELL LOCATION (UP TO 6.0 mBGS)



CONCENTRATION ABOVE MOE TABLE 3 & 7 STANDARDS

Parameter	Unit	Criteria Value	
		Table 3	Table 7
Acenaphthylene	ug/g	0.17	0.17
Anthracene	ug/g	0.74	0.74
Benzo(a)anthracene	ug/g	0.96	0.96
Benzo(a)pyrene	ug/g	0.3	0.3
Benzo(b)fluoranthene/Benzo(j)fluoranthene	ug/g	0.96	0.96
Benzo(k)fluoranthene	ug/g	0.96	0.96
Chrysene	ug/g	9.6	9.6
Dibenz(a,h)anthracene	ug/g	0.1	0.1
Fluoranthene	ug/g	9.6	9.6
Indeno(1,2,3-cd)pyrene	ug/g	0.95	0.95
Phenanthrene	ug/g	16	16

NOTE:

(1) ONTARIO MINISTRY OF THE ENVIRONMENT (MOE), "SOIL, GROUND WATER AND SEDIMENT STANDARDS FOR USE UNDER PART XV.1 OF THE ENVIRONMENTAL PROTECTION ACT", DATED APRIL 15, 2011. TABLE 3: FULL DEPTH GENERIC SITE CONDITION STANDARDS IN A NON-POTABLE GROUNDWATER CONDITION FOR INDUSTRIAL/COMMERCIAL/COMMUNITY PROPERTY USE FOR MEDIUM-FINE TEXTURED SOILS

(2) ONTARIO MINISTRY OF THE ENVIRONMENT (MOE), "SOIL, GROUND WATER AND SEDIMENT STANDARDS FOR USE UNDER PART XV.1 OF THE ENVIRONMENTAL PROTECTION ACT", DATED APRIL 15, 2011. TABLE 7: GENERIC SITE CONDITION STANDARDS FOR SHALLOW SOILS IN A NON-POTABLE GROUNDWATER CONDITION FOR INDUSTRIAL/COMMERCIAL/COMMUNITY PROPERTY USE FOR MEDIUM-FINE TEXTURED SOILS

BH10-22	06/13/2022 0.00-0.60
Acenaphthylene	ND(0.050)
Anthracene	0.499
Benzo(a)anthracene	0.704
Benzo(a)pyrene	0.667
Benzo(b/j)fluoranthene	0.831
Benzo(k)fluoranthene	0.258
Chrysene	0.702
Dibenz(a,h)anthracene	0.120
Fluoranthene	1.67
Indeno(1,2,3-cd)pyrene	0.331
Phenanthrene	1.83

BH13-22	06/10/2022 0.00-0.60
Acenaphthylene	ND(0.050)
Anthracene	ND(0.050)
Benzo(a)anthracene	ND(0.050)
Benzo(a)pyrene	ND(0.050)
Benzo(b/j)fluoranthene	ND(0.050)
Benzo(k)fluoranthene	ND(0.050)
Chrysene	ND(0.050)
Dibenz(a,h)anthracene	ND(0.050)
Fluoranthene	ND(0.050)
Indeno(1,2,3-cd)pyrene	ND(0.050)
Phenanthrene	ND(0.050)

MW4-22	06/10/2022 0.05-0.60
Acenaphthylene	ND(0.050)
Anthracene	ND(0.050)
Benzo(a)anthracene	ND(0.050)
Benzo(a)pyrene	ND(0.050)
Benzo(b/j)fluoranthene	ND(0.050)
Benzo(k)fluoranthene	ND(0.050)
Chrysene	ND(0.050)
Dibenz(a,h)anthracene	ND(0.050)
Fluoranthene	ND(0.050)
Indeno(1,2,3-cd)pyrene	ND(0.050)
Phenanthrene	ND(0.050)

BH11-22	06/13/2022 0.00-0.60
Acenaphthylene	0.570
Anthracene	8.21
Benzo(a)anthracene	17.6
Benzo(a)pyrene	14.8
Benzo(b/j)fluoranthene	15.8
Benzo(k)fluoranthene	8.73
Chrysene	15.4
Dibenz(a,h)anthracene	2.28
Fluoranthene	39.1
Indeno(1,2,3-cd)pyrene	7.76
Phenanthrene	30.7

BH8-22	06/14/2022 0.00-0.60
Acenaphthylene	ND(0.050)/ND(0.050)
Anthracene	0.243/0.292
Benzo(a)anthracene	0.774/1.09
Benzo(a)pyrene	0.784/1.14
Benzo(b/j)fluoranthene	0.930/1.44
Benzo(k)fluoranthene	0.406/0.498
Chrysene	0.936/1.24
Dibenz(a,h)anthracene	0.153/0.190
Fluoranthene	1.89/2.63
Indeno(1,2,3-cd)pyrene	0.478/0.612
Phenanthrene	1.04/1.36

BH5-22	06/14/2022 0.00-0.60
Acenaphthylene	ND(0.050)
Anthracene	ND(0.050)
Benzo(a)anthracene	0.065
Benzo(a)pyrene	0.147
Benzo(b/j)fluoranthene	0.158
Benzo(k)fluoranthene	0.056
Chrysene	0.203
Dibenz(a,h)anthracene	ND(0.050)
Fluoranthene	0.132
Indeno(1,2,3-cd)pyrene	0.114
Phenanthrene	0.100

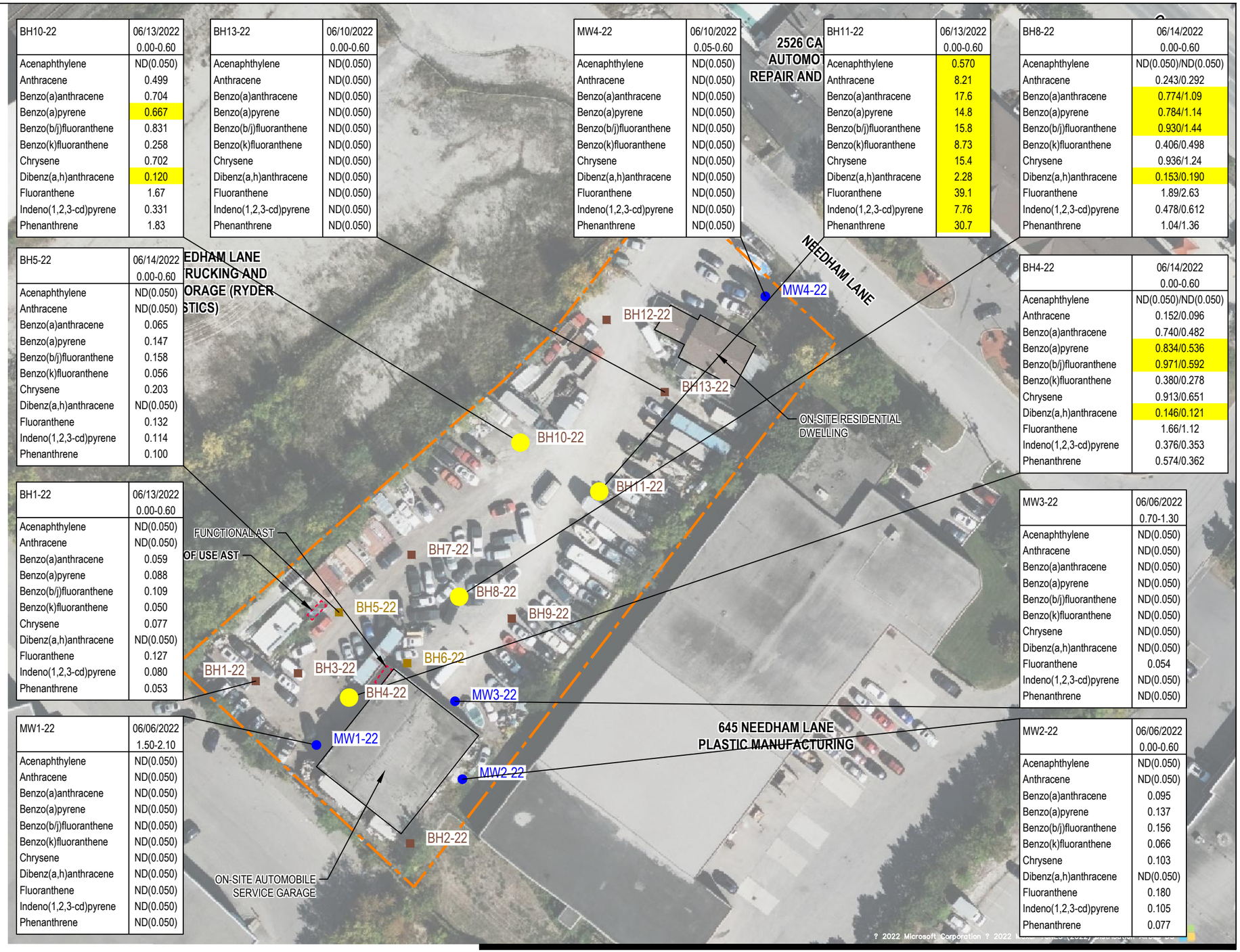
BH4-22	06/14/2022 0.00-0.60
Acenaphthylene	ND(0.050)/ND(0.050)
Anthracene	0.152/0.096
Benzo(a)anthracene	0.740/0.482
Benzo(a)pyrene	0.834/0.536
Benzo(b/j)fluoranthene	0.971/0.592
Benzo(k)fluoranthene	0.380/0.278
Chrysene	0.913/0.651
Dibenz(a,h)anthracene	0.146/0.121
Fluoranthene	1.66/1.12
Indeno(1,2,3-cd)pyrene	0.376/0.353
Phenanthrene	0.574/0.362

BH1-22	06/13/2022 0.00-0.60
Acenaphthylene	ND(0.050)
Anthracene	ND(0.050)
Benzo(a)anthracene	0.059
Benzo(a)pyrene	0.088
Benzo(b/j)fluoranthene	0.109
Benzo(k)fluoranthene	0.050
Chrysene	0.077
Dibenz(a,h)anthracene	ND(0.050)
Fluoranthene	0.127
Indeno(1,2,3-cd)pyrene	0.080
Phenanthrene	0.053

MW3-22	06/06/2022 0.70-1.30
Acenaphthylene	ND(0.050)
Anthracene	ND(0.050)
Benzo(a)anthracene	ND(0.050)
Benzo(a)pyrene	ND(0.050)
Benzo(b/j)fluoranthene	ND(0.050)
Benzo(k)fluoranthene	ND(0.050)
Chrysene	ND(0.050)
Dibenz(a,h)anthracene	ND(0.050)
Fluoranthene	0.054
Indeno(1,2,3-cd)pyrene	ND(0.050)
Phenanthrene	ND(0.050)

MW1-22	06/06/2022 1.50-2.10
Acenaphthylene	ND(0.050)
Anthracene	ND(0.050)
Benzo(a)anthracene	ND(0.050)
Benzo(a)pyrene	ND(0.050)
Benzo(b/j)fluoranthene	ND(0.050)
Benzo(k)fluoranthene	ND(0.050)
Chrysene	ND(0.050)
Dibenz(a,h)anthracene	ND(0.050)
Fluoranthene	ND(0.050)
Indeno(1,2,3-cd)pyrene	ND(0.050)
Phenanthrene	ND(0.050)

MW2-22	06/06/2022 0.00-0.60
Acenaphthylene	ND(0.050)
Anthracene	ND(0.050)
Benzo(a)anthracene	0.095
Benzo(a)pyrene	0.137
Benzo(b/j)fluoranthene	0.156
Benzo(k)fluoranthene	0.066
Chrysene	0.103
Dibenz(a,h)anthracene	ND(0.050)
Fluoranthene	0.180
Indeno(1,2,3-cd)pyrene	0.105
Phenanthrene	0.077



0 7.5 15 22.5m

1:750

Coordinate System:
UTM with NAD83 datum, Zone 17, Meter

Plan North

N

GHD

THE CORPORATION OF THE CITY OF MISSISSAUGA
2524 CAWTHRA ROAD, MISSISSAUGA, ONTARIO
PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

SOIL ANALYTICAL RESULTS
PAHs

Project No. **12581540**
Date **November 2022**

FIGURE 6

Filename: N:\CA\Mississauga\Projects\662\12581540\Digital_Design\ACAD\Figures\LTR002\12581540-GHD-00-00-LTR-EN-D103_WA-002.DWG
Plot Date: 15 November 2022 8:06 AM

LEGEND

- PROPERTY BOUNDARY
- ABOVE GROUND STORAGE TANK
- BOREHOLE LOCATION (UP TO 2.5 mBGS)
- BOREHOLE LOCATION (UP TO 6.0 mBGS)
- MONITORING WELL LOCATION (UP TO 6.0 mBGS)

BH6-22	06/14/2022
	0.00-0.60
PHC F3 (C16-C34)	1400
PHC F4 (C34-C50)	3580
PHC F4 gravimetric - silica gel (GHH)	11200

- SAMPLE LOCATION
- SAMPLE DATE
- SAMPLE DEPTH (mBGS)
- RESULT (ug/g)
- PARAMETER

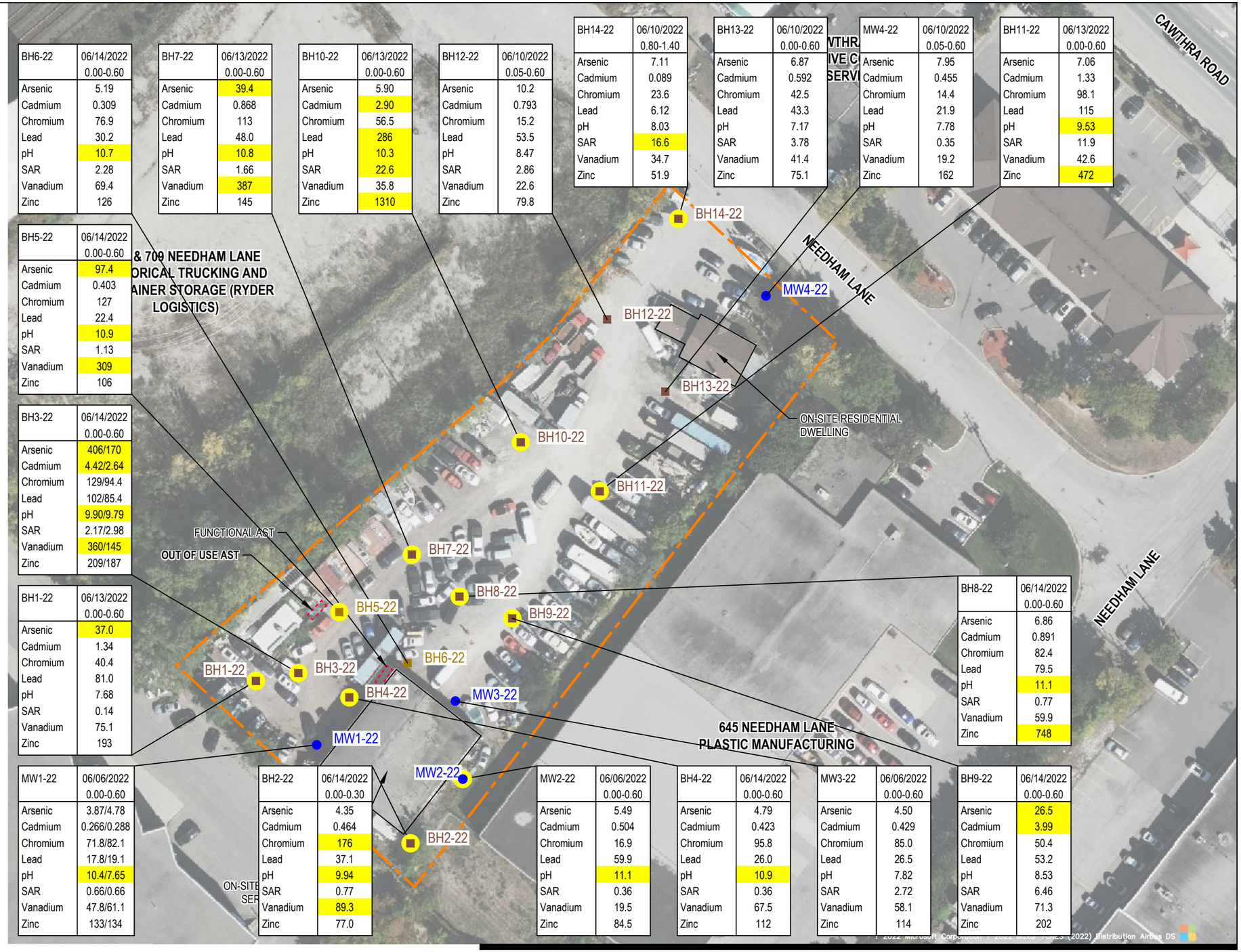
CONCENTRATION ABOVE MOE TABLE 3 & 7 STANDARDS

Parameter	Unit	Criteria Value	
		Table 3	Table 7
Arsenic	ug/g	18	18
Cadmium	ug/g	1.9	1.9
Chromium	ug/g	160	160
Lead	ug/g	120	120
pH	s.u.	5-9 ; 5-11	5-9 ; 5-11
SAR	ug/g	12	12
Vanadium	ug/g	86	86
Zinc	ug/g	340	340

NOTE:

(1) ONTARIO MINISTRY OF THE ENVIRONMENT (MOE), "SOIL, GROUND WATER AND SEDIMENT STANDARDS FOR USE UNDER PART XV.1 OF THE ENVIRONMENTAL PROTECTION ACT", DATED APRIL 15, 2011. TABLE 3: FULL DEPTH GENERIC SITE CONDITION STANDARDS IN A NON-POTABLE GROUNDWATER CONDITION FOR INDUSTRIAL/COMMERCIAL/COMMUNITY PROPERTY USE FOR MEDIUM-FINE TEXTURED SOILS

(2) ONTARIO MINISTRY OF THE ENVIRONMENT (MOE), "SOIL, GROUND WATER AND SEDIMENT STANDARDS FOR USE UNDER PART XV.1 OF THE ENVIRONMENTAL PROTECTION ACT", DATED APRIL 15, 2011. TABLE 7: GENERIC SITE CONDITION STANDARDS FOR SHALLOW SOILS IN A NON-POTABLE GROUNDWATER CONDITION FOR INDUSTRIAL/COMMERCIAL/COMMUNITY PROPERTY USE FOR MEDIUM-FINE TEXTURED SOILS



BH6-22	06/14/2022
	0.00-0.60
Arsenic	5.19
Cadmium	0.309
Chromium	76.9
Lead	30.2
pH	10.7
SAR	2.28
Vanadium	69.4
Zinc	126

BH7-22	06/13/2022
	0.00-0.60
Arsenic	39.4
Cadmium	0.868
Chromium	113
Lead	48.0
pH	10.8
SAR	1.66
Vanadium	387
Zinc	145

BH10-22	06/13/2022
	0.00-0.60
Arsenic	5.90
Cadmium	2.90
Chromium	56.5
Lead	286
pH	10.3
SAR	22.6
Vanadium	35.8
Zinc	1310

BH12-22	06/10/2022
	0.05-0.60
Arsenic	10.2
Cadmium	0.793
Chromium	15.2
Lead	53.5
pH	8.47
SAR	2.86
Vanadium	22.6
Zinc	79.8

BH14-22	06/10/2022
	0.80-1.40
Arsenic	7.11
Cadmium	0.089
Chromium	23.6
Lead	6.12
pH	8.03
SAR	16.6
Vanadium	34.7
Zinc	51.9

BH13-22	06/10/2022
	0.00-0.60
Arsenic	6.87
Cadmium	0.592
Chromium	42.5
Lead	43.3
pH	7.17
SAR	3.78
Vanadium	41.4
Zinc	75.1

MW4-22	06/10/2022
	0.05-0.60
Arsenic	7.95
Cadmium	0.455
Chromium	14.4
Lead	21.9
pH	7.78
SAR	0.35
Vanadium	19.2
Zinc	162

BH11-22	06/13/2022
	0.00-0.60
Arsenic	7.06
Cadmium	1.33
Chromium	98.1
Lead	115
pH	9.53
SAR	11.9
Vanadium	42.6
Zinc	472

BH5-22	06/14/2022
	0.00-0.60
Arsenic	97.4
Cadmium	0.403
Chromium	127
Lead	22.4
pH	10.9
SAR	1.13
Vanadium	309
Zinc	106

BH3-22	06/14/2022
	0.00-0.60
Arsenic	406/170
Cadmium	4.42/2.64
Chromium	129/94.4
Lead	102/85.4
pH	9.90/9.79
SAR	2.17/2.98
Vanadium	360/145
Zinc	209/187

BH1-22	06/13/2022
	0.00-0.60
Arsenic	37.0
Cadmium	1.34
Chromium	40.4
Lead	81.0
pH	7.68
SAR	0.14
Vanadium	75.1
Zinc	193

BH8-22	06/14/2022
	0.00-0.60
Arsenic	6.86
Cadmium	0.891
Chromium	82.4
Lead	79.5
pH	11.1
SAR	0.77
Vanadium	59.9
Zinc	748

MW1-22	06/06/2022
	0.00-0.60
Arsenic	3.87/4.78
Cadmium	0.266/0.288
Chromium	71.8/82.1
Lead	17.8/19.1
pH	10.4/7.65
SAR	0.66/0.66
Vanadium	47.8/61.1
Zinc	133/134

BH2-22	06/14/2022
	0.00-0.30
Arsenic	4.35
Cadmium	0.464
Chromium	176
Lead	37.1
pH	9.94
SAR	0.77
Vanadium	89.3
Zinc	77.0

MW2-22	06/06/2022
	0.00-0.60
Arsenic	5.49
Cadmium	0.504
Chromium	16.9
Lead	59.9
pH	11.1
SAR	0.36
Vanadium	19.5
Zinc	84.5

BH4-22	06/14/2022
	0.00-0.60
Arsenic	4.79
Cadmium	0.423
Chromium	95.8
Lead	26.0
pH	10.9
SAR	0.36
Vanadium	67.5
Zinc	112

MW3-22	06/06/2022
	0.00-0.60
Arsenic	4.50
Cadmium	0.429
Chromium	85.0
Lead	26.5
pH	7.82
SAR	2.72
Vanadium	58.1
Zinc	114

BH9-22	06/14/2022
	0.00-0.60
Arsenic	26.5
Cadmium	3.99
Chromium	50.4
Lead	53.2
pH	8.53
SAR	6.46
Vanadium	71.3
Zinc	202

0 7.5 15 22.5m

1:750

Coordinate System:
UTM with NAD83 datum, Zone 17, Meter

Plan North

N

GHD

THE CORPORATION OF THE CITY OF MISSISSAUGA
2524 CAWTHRA ROAD, MISSISSAUGA, ONTARIO
PHASE II ENVIRONMENTAL SITE ASSESSMENT

SOIL ANALYTICAL RESULTS
METALS & INORGANICS

Project No. **12581540**
Date **November 2022**

FIGURE 7

Filename: N:\CA\Mississauga\Projects\662\12581540\Digital_Design\ACAD\Figures\LTR002\12581540-GHD-00-00-LTR-EN-D104_WA-002.DWG
Plot Date: 15 November 2022 8:06 AM

Tables

Table 1

Summary of Sampling Locations and Chemical Analysis
Phase Two Environmental Site Assessment
2524 Cawthra Road, Mississauga, Ontario
The Corporation of the City of Mississauga

Sample Location	Sample Identification	Sample Depth Interval (mBGS)	Sample Date	Laboratory Certificate of Analysis	Metals & Inorganics	PHCs/ BTEX	VOCs	PAHs	PCBs	TCLP
Soil										
MW1-22	S-12581540-220606-JB-MW1-22-0.0 TO 0.6	0.0 - 0.6	06/06/2022	WT2205302	√				√	
MW1-22 (Field Duplicate)	S-12581540-220606-JB-MW1-22-0.0 TO 0.6X	0.0 - 0.6	06/06/2022	WT2205302	√					
MW1-22	S-12581540-220606-JB-MW1-22-1.5 TO 2.1	1.5 - 2.1	06/06/2022	WT2205302		√	√	√		
MW1-22	S-12581540-220606-JB-MW1-22-3.0 TO 3.3	3.0 - 3.3	06/06/2022	WT2205302		√	√			
MW2-22	S-12581540-220606-JB-MW2-22-0.0 TO 0.6	0.0 - 0.6	06/06/2022	WT2205302	√	√	√	√		
MW2-22	S-12581540-220606-JB-MW2-22-0.7 TO 1.3	0.7 - 1.3	06/06/2022	WT2205302					√	
MW2-22	S-12581540-220606-JB-MW2-22-2.3 TO 2.5	2.3 - 2.5	06/06/2022	WT2205302		√	√			
MW3-22	S-12581540-220606-JB-MW3-22-0.0 TO 0.6	0.0 - 0.6	06/06/2022	WT2205302	√				√	
MW3-22 (Field Duplicate)	S-12581540-220606-JB-MW3-22-0.0 TO 0.6X	0.0 - 0.6	06/06/2022	WT2205302					√	
MW3-22	S-12581540-220606-JB-MW3-22-0.7 TO 1.3	0.7 - 1.3	06/06/2022	WT2205302		√	√	√		
MW3-22	S-12581540-220606-JB-MW3-22-2.3 TO 2.7	2.3 - 2.7	06/06/2022	WT2205302		√	√			
MW3-22 (Field Duplicate)	S-12581540-220606-JB-MW3-22-2.3 TO 2.7X	2.3 - 2.7	06/06/2022	WT2205302		√	√			
TRIP BLANK	S-12581540-220606-JB-TRIP BLANK	-	06/06/2022	WT2205302		√(1)	√			
MW4-22	S-12581540-220610-JB-MW4-22-0.05-0.6	0.05 - 0.6	06/10/2022	WT2205480	√	√	√	√	√	
MW4-22	S-12581540-220610-JB-MW4-22-1.5-2.1	1.5 - 2.1	06/10/2022	WT2205480		√	√			
BH1-22	S-12581540-220613-JB-BH1-22-0.0-0.6	0.0 - 0.6	06/13/2022	WT2205639	√	√	√	√		
BH2-22	S-12581540-220614-JB-BH2-22-0.0-0.3	0.0 - 0.3	06/14/2022	WT2205639	√	√	√			
BH3-22	S-12581540-220614-JB-BH3-22-0.0-0.6	0.0 - 0.6	06/14/2022	WT2205639	√	√	√			
BH3-22 (Field Duplicate)	S-12581540-220614-JB-BH3-22-0.0-0.6X	0.0 - 0.6	06/14/2022	WT2205639	√					
BH4-22	S-12581540-220614-JB-BH4-22-0.0-0.6	0.0 - 0.6	06/14/2022	WT2205639	√	√	√	√		
BH4-22 (Field Duplicate)	S-12581540-220614-JB-BH4-22-0.0-0.6X	0.0 - 0.6	06/14/2022	WT2205639				√		
BH5-22	S-12581540-220614-JB-BH5-22-0.0-0.6	0.0 - 0.6	06/14/2022	WT2205639	√	√	√	√		
BH6-22	S-12581540-220614-JB-BH6-22-0.0-0.6	0.0 - 0.6	06/14/2022	WT2205639	√	√	√			
BH7-22	S-12581540-220613-JB-BH7-22-0.0-0.6	0.0 - 0.6	06/13/2022	WT2205639	√	√	√		√	
BH8-22	S-12581540-220614-JB-BH8-22-0.0-0.6	0.0 - 0.6	06/14/2022	WT2205639	√	√	√	√		
BH8-22 (Field Duplicate)	S-12581540-220614-JB-BH8-22-0.0-0.6X	0.0 - 0.6	06/14/2022	WT2205639				√		
BH9-22	S-12581540-220614-JB-BH9-22-0.0-0.6	0.0 - 0.6	06/14/2022	WT2205639	√	√	√			
BH9-22 (Field Duplicate)	S-12581540-220614-JB-BH9-22-0.0-0.6X	0.0 - 0.6	06/14/2022	WT2205639		√	√			
BH10-22	S-12581540-220613-JB-BH10-22-0.0-0.6	0.0 - 0.6	06/13/2022	WT2205639	√	√	√	√		
BH10-22	S-12581540-220613-JB-BH10-22-1.5-1.8	1.5 - 1.8	06/13/2022	WT2205639		√	√			
BH10-22 (Field Duplicate)	S-12581540-220613-JB-BH10-22-1.5-1.8X	1.5 - 1.8	06/13/2022	WT2205639		√	√			

Table 1

Summary of Sampling Locations and Chemical Analysis
Phase Two Environmental Site Assessment
2524 Cawthra Road, Mississauga, Ontario
The Corporation of the City of Mississauga

Sample Location	Sample Identification	Sample Depth Interval (mBGS)	Sample Date	Laboratory Certificate of Analysis	Metals & Inorganics	PHCs/ BTEX	VOCs	PAHs	PCBs	TCLP
BH11-22	S-12581540-220613-JB-BH11-22-0.0-0.6	0.0 - 0.6	06/13/2022	WT2205639	√	√	√	√	√	
BH11-22	S-12581540-220613-JB-BH11-22-1.5-2.1	1.5 - 2.1	06/13/2022	WT2205639		√	√			
BH12-22	S-12581540-220610-JB-BH12-22-0.05-0.6	0.05 - 0.6	06/10/2022	WT2205480	√					
BH12-22	S-12581540-220610-JB-BH12-22-0.05-0.6	0.05 - 0.6	06/10/2022	WT2205639		√	√			
TRIP BLANK	S-12581540-220610-JB-TRIP BLANK	-	06/10/2022	WT2205480		√(1)	√			
BH13-22	S-12581540-220610-JB-BH13-22-0.0-0.6	0.0 - 0.6	06/10/2022	WT2205480	√	√	√	√	√	
BH13-22	S-12581540-220610-JB-BH13-22-1.5-1.8	1.5 - 1.8	06/10/2022	WT2205480		√	√			
BH14-22	S-12581540-220610-JB-BH14-22-0.8-1.4	0.8 - 1.4	06/10/2022	WT2205480	√					
BH14-22	S-12581540-220610-JB-BH14-22-0.8-1.4	0.8 - 1.4	06/10/2022	WT2205639		√	√			
TRIP BLANK	S-12581540-220614-JB-TRIP BLANK	-	06/14/2022	WT2205639		√(1)	√			
COMPOSITE SOIL	S-12581540-220614-JB-TCLP	-	06/14/2022	WT2205641						√
Groundwater										
MW1-22	GW-12581540-220617-SB-MW1	-	06/17/2022	WT2205959	√	√	√	√	√	
MW2-22	GW-12581540-220617-SB-MW2	-	06/17/2022	WT2205959	√	√	√	√	√	
MW3-22	GW-12581540-220617-SB-MW3	-	06/17/2022	WT2205959	√	√	√	√	√	
MW3-22 (Field Duplicate)	GW-12581540-220617-SB-MW3-DUP	-	06/17/2022	WT2205959	√	√	√	√	√	
MW4-22	GW-12581540-220617-SB-MW4	-	06/17/2022	WT2205959	√	√	√	√	√	
TRIP BLANK	Trip Blank	-	06/17/2022	WT2205959			√			

Notes:

(1)	PHC fraction F_1 only
mBGS	metres below ground surface
VOCs	Volatile Organic Compounds
PAHs	Polycyclic Aromatic Hydrocarbons
PHCs	Petroleum Hydrocarbons
PCBs	Polychlorinated Biphenyls
SPLP	Synthetic Precipitation Leaching Procedure
TCLP	Toxicity Characteristic Leaching Procedure
-	not applicable

Table 2

Summary of Monitoring Well Completion Details
Phase Two Environmental Site Assessment
2524 Cawthra Road, Mississauga, Ontario
The Corporation of the City of Mississauga

Well No.	Completion Date	Ground Elevation[(1)]	Total Depth Drilled	Screened Interval				Sand Pack Interval				Screened Geologic Material
				Top	Bottom	Top	Bottom	Top	Bottom	Top	Bottom	
		(mASD)	(mBGS)	(mBGS)		(mASD)		(mBGS)		(mASD)		
MW1-22	06/06/2022	99.109	3.96	2.44	3.96	96.67	95.15	2.13	3.96	96.98	95.15	shale bedrock
MW2-22	06/06/2022	98.749	3.96	2.44	3.96	96.31	94.79	2.13	3.96	96.62	94.79	shale bedrock
MW3-22	06/06/2022	99.249	3.05	0.91	3.05	98.34	96.20	0.76	3.05	98.49	96.20	shale bedrock
MW4-22	06/10/2022	99.575	5.49	3.20	5.33	96.38	94.25	3.05	5.49	96.53	94.09	shale bedrock

Notes:

(1) Survey completed relative to the bottom of a light pole (#C19696) with an assumed elevation of 100.0 mASD was used as a benchmark.

mASD metres Above Site Datum

mBGS metres Below Ground Surface

Table 3

Summary of Monitoring Well Development and Low-Flow Purging Activities
Phase Two Environmental Site Assessment
2524 Cawthra Road, Mississauga, Ontario
The Corporation of the City of Mississauga

Well No.	Date	Time (hh:min)	Temperature (°C)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	pH
MW1-22	6/17/2022	11:30 AM	20.29	2.13	81	8.00	7.99
		11:35 AM	20.31	2.08	16	4.99	7.98
		11:40 AM	20.57	2.08	15	4.98	7.97
		11:45 AM	20.59	2.07	15	4.97	7.97
MW2-22	06/17/2022	2:25 PM	30.76	2.69	27	1.22	7.59
		2:30 PM	29.05	2.79	24	0.17	7.50
		2:35 PM	27.60	2.81	18	0.00	7.45
		2:40 PM	26.32	2.85	12	0.00	7.39
		2:45 PM	25.46	2.87	12	0.00	7.35
		2:50 PM	24.93	2.92	12	0.00	7.34
MW3-22	06/17/2022	1:05 PM	26.74	1.24	398	0.73	9.41
		1:10 PM	26.06	1.24	391	0.00	9.43
		1:15 PM	25.40	1.24	384	0.00	9.50
MW4-22	06/17/2022	4:05 PM	28.54	0.89	22	3.43	8.36
		4:10 PM	26.70	0.89	13	2.87	8.05
		4:15 PM	23.69	0.93	9	2.78	7.94
		4:20 PM	22.88	0.95	7	2.98	7.98
		4:25 PM	22.38	0.97	6	3.14	7.92
		4:30 PM	22.36	0.97	6	3.10	7.94

Notes:

hh:min	hours:minutes
°C	degrees Celcius
mS/cm	milliSiemens per centimetre
NTU	Nephelometric Turbidity Units
DO	dissolved oxygen
mg/L	milligrams per litre

Table 4

Summary of Groundwater Elevation Measurements
Phase Two Environmental Site Assessment
2524 Cawthra Road, Mississauga, Ontario
The Corporation of the City of Mississauga

Well No.	Ground Elevation[1]	Groundwater Elevation	
		06/17/2022	
	(mASD)	(mBGS)	(mASD)
MW1-22	99.109	2.96	96.149
MW2-22	98.749	1.94	96.809
MW3-22	99.249	0.42	98.829
MW4-22	99.575	2.94	96.635

Notes:

(1)	Survey completed relative to the bottom of a light pole (#C19696) with an assumed elevation of 100.0 mASD
mASD	metres Above Site Datum.
mBGS	metres Below Ground Surface.

Table 5

Summary of TCLP Soil Characterization Results
Phase Two Environmental Site Assessment
2524 Cawthra Road, Mississauga, Ontario
The Corporation of the City of Mississauga

		Sample Location:	COMPOSITE SOIL
		Sample Identification:	S-12581540-220614-JB-TCLP
		Sample Date:	06/14/2022
		Laboratory Certificate of Analysis:	WT2205641
Parameters	**Units**	**Schedule 4 Criteria**[1]	
Volatiles			
1,1-Dichloroethene	mg/L	1.4	ND(0.025)
1,2-Dichlorobenzene	mg/L	20	ND(0.025)
1,2-Dichloroethane	mg/L	0.5	ND(0.025)
1,4-Dichlorobenzene	mg/L	0.5	ND(0.025)
Methyl ethyl ketone	mg/L	200	ND(0.10)
Benzene	mg/L	0.5	ND(0.0050)
Carbon tetrachloride	mg/L	0.5	ND(0.025)
Chlorobenzene	mg/L	8	ND(0.025)
Chloroform (Trichloromethane)	mg/L	10	ND(0.10)
Methylene chloride	mg/L	5	ND(0.10)
Tetrachloroethene	mg/L	3	ND(0.025)
Trichloroethene	mg/L	5	ND(0.025)
Vinyl chloride	mg/L	0.2	ND(0.050)
Polycyclic Aromatic Hydrocarbons (PAHs)			
Benzo(a)pyrene	mg/L	0.001	ND(0.00050)
Metals			
Arsenic	mg/L	2.5	ND(1.0)
Barium	mg/L	100	ND(2.5)
Boron	mg/L	500	ND(0.50)
Cadmium	mg/L	0.5	ND(0.050)
Chromium	mg/L	5	ND(0.25)
Lead	mg/L	5	ND(0.25)
Mercury	mg/L	0.1	ND(0.0010)
Selenium	mg/L	1	ND(0.10)
Silver	mg/L	5	ND(0.050)
Uranium	mg/L	10	ND(0.20)
Polychlorinated Biphenyls (PCBs)			
Aroclor-1016 (PCB-1016)	mg/L	NV	ND(0.00020)
Aroclor-1221 (PCB-1221)	mg/L	NV	ND(0.00020)
Aroclor-1232 (PCB-1232)	mg/L	NV	ND(0.00020)
Aroclor-1242 (PCB-1242)	mg/L	NV	ND(0.00020)
Aroclor-1248 (PCB-1248)	mg/L	NV	ND(0.00020)
Aroclor-1254 (PCB-1254)	mg/L	NV	ND(0.00020)
Aroclor-1260 (PCB-1260)	mg/L	NV	ND(0.00020)
Aroclor-1262 (PCB-1262)	mg/L	NV	ND(0.00020)
Aroclor-1268 (PCB-1268)	mg/L	NV	ND(0.00020)
Total PCBs	mg/L	0.3	ND(0.00060)

Table 5

Summary of TCLP Soil Characterization Results
Phase Two Environmental Site Assessment
2524 Cawthra Road, Mississauga, Ontario
The Corporation of the City of Mississauga

		Sample Location:	COMPOSITE SOIL
		Sample Identification:	S-12581540-220614-JB-TCLP
		Sample Date:	06/14/2022
		Laboratory Certificate of Analysis:	WT2205641
Parameters	**Units**	**Schedule 4 Criteria**[1]	
General Chemistry			
Cyanide, weak acid dissociable	mg/L	20	ND(0.10)
Fluoride	mg/L	150	ND(10)
Ignitability	none	NV	N
Ignitability temperature	°C	NV	20.0
Nitrate (as N)	mg/L	NV	ND(5.0)
Nitrite (as N)	mg/L	NV	ND(5.0)
Nitrite/Nitrate	mg/L	1000.00	ND(7.5)
pH, TCLP Extraction fluid initial	s.u.	NV	4.89
Final pH	s.u.	NV	6.35

Notes:

(1)	Environmental Protection Act, Waste Management Regulation 347, as amended by O. Reg. 558, Schedule 4, 1990.
mg/L	milligrams per litre
s.u.	standard units
%	percent
NV	No value
ND(0.025)	Not detected at the associated reporting limit indicated in brackets
TCLP	Toxicity Characteristic Leaching Procedure

Table 6

Summary of Soil Analytical Results
Phase Two Environmental Site Assessment
2524 Cawthra Road, Mississauga, Ontario
The Corporation of the City of Mississauga

			Sample Location:	**BH1-22**	**BH2-22**	**BH3-22**	
			Sample Identification:	**S-12581540-220613-JB-BH1-22-0.0-0.6**	**S-12581540-220614-JB-BH2-22-0.0-0.3**	**S-12581540-220614-JB-BH3-22-0.0-0.6**	**S-12581540-220614-JB-BH3-22-0.0-0.6X**
			Sample Date:	**06/13/2022**	**06/14/2022**	**06/14/2022**	**06/14/2022**
			Sample Depth (mBGS):	**0.00-0.60**	**0.00-0.30**	**0.00-0.60**	**0.00-0.60**
			Lab Certificate of Analysis:	**WT2205639**	**WT2205639**	**WT2205639**	**WT2205639**
Parameters	**Units**	**2011 MOE Standards**					***Field Duplicate***
		Table 3 ICC[1]	**Table 7 ICC[2]**				
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	ug/g	0.11	0.11	ND(0.050)	ND(0.050)	ND(0.050)	-
1,1,1-Trichloroethane	ug/g	12	12	ND(0.050)	ND(0.050)	ND(0.050)	-
1,1,2,2-Tetrachloroethane	ug/g	0.094	0.094	ND(0.050)	ND(0.050)	ND(0.050)	-
1,1,2-Trichloroethane	ug/g	0.11	0.11	ND(0.050)	ND(0.050)	ND(0.050)	-
1,1-Dichloroethane	ug/g	21	21	ND(0.050)	ND(0.050)	ND(0.050)	-
1,1-Dichloroethene	ug/g	0.48	0.48	ND(0.050)	ND(0.050)	ND(0.050)	-
Ethylene dibromide	ug/g	0.05	0.05	ND(0.050)	ND(0.050)	ND(0.050)	-
1,2-Dichlorobenzene	ug/g	8.5	8.5	ND(0.050)	ND(0.050)	ND(0.050)	-
1,2-Dichloroethane	ug/g	0.05	0.05	ND(0.050)	ND(0.050)	ND(0.050)	-
1,2-Dichloropropane	ug/g	0.68	0.68	ND(0.050)	ND(0.050)	ND(0.050)	-
1,3-Dichlorobenzene	ug/g	12	12	ND(0.050)	ND(0.050)	ND(0.050)	-
1,4-Dichlorobenzene	ug/g	0.84	0.84	ND(0.050)	ND(0.050)	ND(0.050)	-
Methyl ethyl ketone	ug/g	88	88	ND(0.50)	ND(0.50)	ND(0.50)	-
Methyl isobutyl ketone	ug/g	210	210	ND(0.50)	ND(0.50)	ND(0.50)	-
Acetone	ug/g	28	28	ND(0.50)	ND(0.50)	ND(0.50)	-
Benzene	ug/g	0.4	0.4	ND(0.0050)	ND(0.0050)	ND(0.0050)	-
Bromodichloromethane	ug/g	18	18	ND(0.050)	ND(0.050)	ND(0.050)	-
Bromoform	ug/g	1.7	1.7	ND(0.050)	ND(0.050)	ND(0.050)	-
Bromomethane (Methyl bromide)	ug/g	0.05	0.05	ND(0.050)	ND(0.050)	ND(0.050)	-
Carbon tetrachloride	ug/g	1.5	1.5	ND(0.050)	ND(0.050)	ND(0.050)	-
Chlorobenzene	ug/g	2.7	2.7	ND(0.050)	ND(0.050)	ND(0.050)	-
Chloroform (Trichloromethane)	ug/g	0.18	0.18	ND(0.050)	ND(0.050)	ND(0.050)	-
cis-1,2-Dichloroethene	ug/g	37	37	ND(0.050)	ND(0.050)	ND(0.050)	-
cis-1,3-Dichloropropene	ug/g	NV	NV	ND(0.030)	ND(0.030)	ND(0.030)	-
cis/trans-1,3-Dichloropropene	ug/g	0.21	0.21	ND(0.05)	ND(0.05)	ND(0.05)	-
Dibromochloromethane	ug/g	13	13	ND(0.050)	ND(0.050)	ND(0.050)	-
Dichlorodifluoromethane (CFC-12)	ug/g	25	25	ND(0.050)	ND(0.050)	ND(0.050)	-
Ethylbenzene	ug/g	19	19	ND(0.015)	ND(0.015)	ND(0.015)	-
Hexane	ug/g	88	88	ND(0.050)	ND(0.050)	ND(0.050)	-
m&p-Xylenes	ug/g	NV	NV	ND(0.030)	ND(0.030)	ND(0.030)	-
Methyl tert butyl ether (MTBE)	ug/g	3.2	3.2	ND(0.040)	ND(0.040)	ND(0.040)	-
Methylene chloride	ug/g	2	2	ND(0.045)	ND(0.045)	ND(0.045)	-
o-Xylene	ug/g	NV	NV	ND(0.030)	ND(0.030)	ND(0.030)	-
Styrene	ug/g	43	43	ND(0.050)	ND(0.050)	ND(0.050)	-
Tetrachloroethene	ug/g	21	21	ND(0.050)	ND(0.050)	ND(0.050)	-
Toluene	ug/g	78	78	ND(0.050)	ND(0.050)	ND(0.050)	-
Total BTEX	ug/g	NV	NV	ND(0.1)	ND(0.1)	ND(0.1)	-
trans-1,2-Dichloroethene	ug/g	9.3	9.3	ND(0.050)	ND(0.050)	ND(0.050)	-
trans-1,3-Dichloropropene	ug/g	NV	NV	ND(0.030)	ND(0.030)	ND(0.030)	-
Trichloroethene	ug/g	0.61	0.61	ND(0.010)	ND(0.010)	ND(0.010)	-
Trichlorofluoromethane (CFC-11)	ug/g	5.8	5.8	ND(0.050)	ND(0.050)	ND(0.050)	-
Vinyl chloride	ug/g	0.25	0.25	ND(0.020)	ND(0.020)	ND(0.020)	-
Xylenes (total)	ug/g	30	30	ND(0.05)	ND(0.05)	ND(0.05)	-

Table 6

Summary of Soil Analytical Results
Phase Two Environmental Site Assessment
2524 Cawthra Road, Mississauga, Ontario
The Corporation of the City of Mississauga

			Sample Location:	**BH1-22**	**BH2-22**	**BH3-22**	
			Sample Identification:	**S-12581540-220613-JB-BH1-22-0.0-0.6**	**S-12581540-220614-JB-BH2-22-0.0-0.3**	**S-12581540-220614-JB-BH3-22-0.0-0.6**	**S-12581540-220614-JB-BH3-22-0.0-0.6X**
			Sample Date:	**06/13/2022**	**06/14/2022**	**06/14/2022**	**06/14/2022**
			Sample Depth (mBGS):	**0.00-0.60**	**0.00-0.30**	**0.00-0.60**	**0.00-0.60**
			Lab Certificate of Analysis:	**WT2205639**	**WT2205639**	**WT2205639**	**WT2205639**
Parameters	**Units**	**2011 MOE Standards**					***Field Duplicate***
		Table 3 ICC[1]	**Table 7 ICC[2]**				
Semi-Volatile Organic Compounds							
1+2-Methylnaphthalene	ug/g	85	85	ND(0.05)	-	-	-
1-Methylnaphthalene	ug/g	85	85	ND(0.030)	-	-	-
2-Methylnaphthalene	ug/g	85	85	ND(0.030)	-	-	-
Acenaphthene	ug/g	96	96	ND(0.050)	-	-	-
Acenaphthylene	ug/g	0.17	0.17	ND(0.050)	-	-	-
Anthracene	ug/g	0.74	0.74	ND(0.050)	-	-	-
Benzo(a)anthracene	ug/g	0.96	0.96	0.059	-	-	-
Benzo(a)pyrene	ug/g	0.3	0.3	0.088	-	-	-
Benzo(b/j)fluoranthene	ug/g	0.96	0.96	0.109	-	-	-
Benzo(g,h,i)perylene	ug/g	9.6	9.6	0.120	-	-	-
Benzo(k)fluoranthene	ug/g	0.96	0.96	0.050	-	-	-
Chrysene	ug/g	9.6	9.6	0.077	-	-	-
Dibenz(a,h)anthracene	ug/g	0.1	0.1	ND(0.050)	-	-	-
Fluoranthene	ug/g	9.6	9.6	0.127	-	-	-
Fluorene	ug/g	69	69	ND(0.050)	-	-	-
Indeno(1,2,3-cd)pyrene	ug/g	0.95	0.95	0.080	-	-	-
Naphthalene	ug/g	28	28	ND(0.010)	-	-	-
Phenanthrene	ug/g	16	16	0.053	-	-	-
Pyrene	ug/g	96	96	0.108	-	-	-
Metals							
Antimony	ug/g	50	50	1.28	0.70	0.92	0.96
Arsenic	ug/g	18	18	**37.0**	4.35	**406**	**170**
Barium	ug/g	670	670	83.8	58.4	134	85.7
Beryllium	ug/g	10	10	0.42	0.24	0.29	0.29
Boron	ug/g	120	120	7.5	8.1	13.6	10.6
Boron (hot water soluble)	ug/g	2	2	0.25	0.29	0.82	0.88
Cadmium	ug/g	1.9	1.9	1.34	0.464	**4.42**	**2.64**
Calcium (soluble)	mg/L	NV	NV	26.7	21.8	19.6	16.6
Chromium	ug/g	160	160	40.4	**176**	129	94.4
Chromium VI (hexavalent)	ug/g	10	10	ND(0.10)	4.70	0.76	ND(0.10)
Cobalt	ug/g	100	100	6.74	4.29	6.34	5.36
Copper	ug/g	300	300	48.3	24.9	48.4	64.3
Lead	ug/g	120	120	81.0	37.1	102	85.4
Magnesium (soluble)	mg/L	NV	NV	2.38	1.11	13.7	5.00
Mercury	ug/g	20	20	0.0972	0.0168	0.0360	0.0313
Molybdenum	ug/g	40	40	1.94	2.67	2.39	2.12
Nickel	ug/g	340	340	34.4	21.2	234	109
Selenium	ug/g	5.5	5.5	0.21	ND(0.20)	ND(0.20)	ND(0.20)
Silver	ug/g	50	50	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)
Sodium (soluble)	mg/L	NV	NV	2.91	13.6	51.1	53.9
Thallium	ug/g	3.3	3.3	0.094	0.066	0.214	0.145
Uranium	ug/g	33	33	0.431	0.415	0.694	0.559
Vanadium	ug/g	86	86	75.1	**89.3**	**360**	**145**
Zinc	ug/g	340	340	193	77.0	209	187

Table 6

Summary of Soil Analytical Results
Phase Two Environmental Site Assessment
2524 Cawthra Road, Mississauga, Ontario
The Corporation of the City of Mississauga

			Sample Location:	BH1-22	BH2-22	BH3-22	
			Sample Identification:	S-12581540-220613-JB-BH1-22-0.0-0.6	S-12581540-220614-JB-BH2-22-0.0-0.3	S-12581540-220614-JB-BH3-22-0.0-0.6	S-12581540-220614-JB-BH3-22-0.0-0.6X
			Sample Date:	06/13/2022	06/14/2022	06/14/2022	06/14/2022
			Sample Depth (mBGS):	0.00-0.60	0.00-0.30	0.00-0.60	0.00-0.60
			Lab Certificate of Analysis:	WT2205639	WT2205639	WT2205639	WT2205639
Parameters	**Units**	**2011 MOE Standards**					***Field Duplicate***
		Table 3 ICC[1]	**Table 7 ICC[2]**				
Polychlorinated Biphenyls (PCBs)							
Aroclor-1016 (PCB-1016)	ug/g	NV	NV	-	-	-	-
Aroclor-1221 (PCB-1221)	ug/g	NV	NV	-	-	-	-
Aroclor-1232 (PCB-1232)	ug/g	NV	NV	-	-	-	-
Aroclor-1242 (PCB-1242)	ug/g	NV	NV	-	-	-	-
Aroclor-1248 (PCB-1248)	ug/g	NV	NV	-	-	-	-
Aroclor-1254 (PCB-1254)	ug/g	NV	NV	-	-	-	-
Aroclor-1260 (PCB-1260)	ug/g	NV	NV	-	-	-	-
Aroclor-1262 (PCB-1262)	ug/g	NV	NV	-	-	-	-
Aroclor-1268 (PCB-1268)	ug/g	NV	NV	-	-	-	-
Total PCBs	ug/g	1.1	1.1	-	-	-	-
Petroleum Hydrocarbons (PHCs)							
PHCs F1 (C6-C10)	ug/g	65	65	ND(5.0)	ND(5.0)	ND(5.0)	-
PHCs F1 minus BTEX	ug/g	65	65	ND(5)	ND(5)	ND(5)	-
PHCs F2 (C10-C16)	ug/g	250	250	ND(10)	ND(59)	ND(33)	-
PHCs F2 minus Naphthalene	ug/g	250	250	ND(25)	-	-	-
PHCs F3 (C16-C34)	ug/g	2500	2500	143	1440	714	-
PHCs F3 minus PAH	ug/g	2500	2500	142	-	-	-
PHCs F4 (C34-C50)	ug/g	6600	6600	316	4350	1830	-
PHCs F4 gravimetric - silica gel (GHH)	ug/g	6600	6600	1290	-	-	-
Total PHCs (C6-C50)	ug/g	NV	NV	459	5790	2540	-
General Chemistry							
Conductivity	mS/cm	1.4	1.4	0.168	0.193	0.428	0.373
Cyanide, weak acid dissociable	ug/g	0.051	0.051	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Moisture	%	NV	NV	8.53	10.0	7.40	6.87
pH, soluble (1:2)	s.u.	(5-11) 5-9	(5-11) 5-9	7.68	**9.94**	**9.90**	**9.79**
Sodium adsorption ratio (SAR)	none	12	12	0.14	0.77	2.17	2.98

Notes:

(1)	Ontario Ministry of Environment (MOE) Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition for Industrial/Commercial/Community Property Use with medium to fine textured soils, April 2011
(2)	MOE, Table 7: Generic Site Condition Standards for Shallow Soils in a Non-Potable Ground Water Condition for Industrial/Commercial/Community Property Use with medium to fine textured soils, April 2011
mBGS	metres Below Ground Surface
ug/g	micrograms per gram
mS/cm	milliSiemens per centimetre
%	percent
s.u.	standard units
NV	No value
ND(0.01)	Not detected at the associated reporting limit indicated in brackets
-	Not analyzed
RED	Concentration above MOE Table 3 Standards
	Concentration above MOE Table 7 Standards

Table 6

Summary of Soil Analytical Results
Phase Two Environmental Site Assessment
2524 Cawthra Road, Mississauga, Ontario
The Corporation of the City of Mississauga

Sample Location:				**BH4-22**		**BH5-22**	**BH6-22**	**BH7-22**
Sample Identification:				**S-12581540-220614-JB-BH4-22-0.0-0.6**	**S-12581540-220614-JB-BH4-22-0.0-0.6X**	**S-12581540-220614-JB-BH5-22-0.0-0.6**	**S-12581540-220614-JB-BH6-22-0.0-0.6**	**S-12581540-220613-JB-BH7-22-0.0-0.6**
Sample Date:				**06/14/2022**	**06/14/2022**	**06/14/2022**	**06/14/2022**	**06/13/2022**
Sample Depth (mBGS):				**0.00-0.60**	**0.00-0.60**	**0.00-0.60**	**0.00-0.60**	**0.00-0.60**
Lab Certificate of Analysis:				**WT2205639**	**WT2205639**	**WT2205639**	**WT2205639**	**WT2205639**
Parameters	**Units**	**2011 MOE Standards**			***Field Duplicate***			
		Table 3 ICC[1]	**Table 7 ICC[2]**					
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	ug/g	0.11	0.11	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
1,1,1-Trichloroethane	ug/g	12	12	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
1,1,2,2-Tetrachloroethane	ug/g	0.094	0.094	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
1,1,2-Trichloroethane	ug/g	0.11	0.11	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
1,1-Dichloroethane	ug/g	21	21	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
1,1-Dichloroethene	ug/g	0.48	0.48	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
Ethylene dibromide	ug/g	0.05	0.05	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
1,2-Dichlorobenzene	ug/g	8.5	8.5	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
1,2-Dichloroethane	ug/g	0.05	0.05	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
1,2-Dichloropropane	ug/g	0.68	0.68	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
1,3-Dichlorobenzene	ug/g	12	12	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
1,4-Dichlorobenzene	ug/g	0.84	0.84	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
Methyl ethyl ketone	ug/g	88	88	ND(0.50)	-	ND(0.50)	ND(0.50)	ND(0.50)
Methyl isobutyl ketone	ug/g	210	210	ND(0.50)	-	ND(0.50)	ND(0.50)	ND(0.50)
Acetone	ug/g	28	28	ND(0.50)	-	ND(0.50)	ND(0.50)	ND(0.50)
Benzene	ug/g	0.4	0.4	ND(0.0050)	-	ND(0.0050)	ND(0.0050)	ND(0.0050)
Bromodichloromethane	ug/g	18	18	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
Bromoform	ug/g	1.7	1.7	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
Bromomethane (Methyl bromide)	ug/g	0.05	0.05	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
Carbon tetrachloride	ug/g	1.5	1.5	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
Chlorobenzene	ug/g	2.7	2.7	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
Chloroform (Trichloromethane)	ug/g	0.18	0.18	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
cis-1,2-Dichloroethene	ug/g	37	37	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
cis-1,3-Dichloropropene	ug/g	NV	NV	ND(0.030)	-	ND(0.030)	ND(0.030)	ND(0.030)
cis/trans-1,3-Dichloropropene	ug/g	0.21	0.21	ND(0.05)	-	ND(0.05)	ND(0.05)	ND(0.05)
Dibromochloromethane	ug/g	13	13	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
Dichlorodifluoromethane (CFC-12)	ug/g	25	25	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
Ethylbenzene	ug/g	19	19	ND(0.015)	-	ND(0.015)	ND(0.015)	ND(0.015)
Hexane	ug/g	88	88	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
m&p-Xylenes	ug/g	NV	NV	ND(0.030)	-	ND(0.030)	ND(0.030)	ND(0.030)
Methyl tert butyl ether (MTBE)	ug/g	3.2	3.2	ND(0.040)	-	ND(0.040)	ND(0.040)	ND(0.040)
Methylene chloride	ug/g	2	2	ND(0.045)	-	ND(0.045)	ND(0.045)	ND(0.054)
o-Xylene	ug/g	NV	NV	ND(0.030)	-	ND(0.030)	ND(0.030)	ND(0.030)
Styrene	ug/g	43	43	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
Tetrachloroethene	ug/g	21	21	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
Toluene	ug/g	78	78	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
Total BTEX	ug/g	NV	NV	ND(0.1)	-	ND(0.1)	ND(0.1)	ND(0.1)
trans-1,2-Dichloroethene	ug/g	9.3	9.3	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
trans-1,3-Dichloropropene	ug/g	NV	NV	ND(0.030)	-	ND(0.030)	ND(0.030)	ND(0.030)
Trichloroethene	ug/g	0.61	0.61	ND(0.010)	-	ND(0.010)	ND(0.010)	ND(0.010)
Trichlorofluoromethane (CFC-11)	ug/g	5.8	5.8	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
Vinyl chloride	ug/g	0.25	0.25	ND(0.020)	-	ND(0.020)	ND(0.020)	ND(0.020)
Xylenes (total)	ug/g	30	30	ND(0.05)	-	ND(0.05)	ND(0.05)	ND(0.05)

Table 6

Summary of Soil Analytical Results
Phase Two Environmental Site Assessment
2524 Cawthra Road, Mississauga, Ontario
The Corporation of the City of Mississauga

Sample Location:				**BH4-22**		**BH5-22**	**BH6-22**	**BH7-22**
Sample Identification:				**S-12581540-220614-JB-BH4-22-0.0-0.6**	**S-12581540-220614-JB-BH4-22-0.0-0.6X**	**S-12581540-220614-JB-BH5-22-0.0-0.6**	**S-12581540-220614-JB-BH6-22-0.0-0.6**	**S-12581540-220613-JB-BH7-22-0.0-0.6**
Sample Date:				**06/14/2022**	**06/14/2022**	**06/14/2022**	**06/14/2022**	**06/13/2022**
Sample Depth (mBGS):				**0.00-0.60**	**0.00-0.60**	**0.00-0.60**	**0.00-0.60**	**0.00-0.60**
Lab Certificate of Analysis:				**WT2205639**	**WT2205639**	**WT2205639**	**WT2205639**	**WT2205639**
Parameters	**Units**	**2011 MOE Standards**			***Field Duplicate***			
		Table 3 ICC[1]	**Table 7 ICC[2]**					
Semi-Volatile Organic Compounds								
1+2-Methylnaphthalene	ug/g	85	85	ND(0.05)	ND(0.05)	ND(0.05)	-	-
1-Methylnaphthalene	ug/g	85	85	ND(0.030)	ND(0.030)	ND(0.030)	-	-
2-Methylnaphthalene	ug/g	85	85	ND(0.030)	ND(0.030)	ND(0.030)	-	-
Acenaphthene	ug/g	96	96	ND(0.050)	ND(0.050)	ND(0.050)	-	-
Acenaphthylene	ug/g	0.17	0.17	ND(0.050)	ND(0.050)	ND(0.050)	-	-
Anthracene	ug/g	0.74	0.74	0.152	0.096	ND(0.050)	-	-
Benzo(a)anthracene	ug/g	0.96	0.96	0.740	0.482	0.065	-	-
Benzo(a)pyrene	ug/g	0.3	0.3	**0.834**	**0.536**	0.147	-	-
Benzo(b/j)fluoranthene	ug/g	0.96	0.96	**0.971**	0.592	0.158	-	-
Benzo(g,h,i)perylene	ug/g	9.6	9.6	0.591	0.471	0.212	-	-
Benzo(k)fluoranthene	ug/g	0.96	0.96	0.380	0.278	0.056	-	-
Chrysene	ug/g	9.6	9.6	0.913	0.651	0.203	-	-
Dibenz(a,h)anthracene	ug/g	0.1	0.1	**0.146**	**0.121**	ND(0.050)	-	-
Fluoranthene	ug/g	9.6	9.6	1.66	1.12	0.132	-	-
Fluorene	ug/g	69	69	ND(0.050)	ND(0.050)	ND(0.050)	-	-
Indeno(1,2,3-cd)pyrene	ug/g	0.95	0.95	0.376	0.353	0.114	-	-
Naphthalene	ug/g	28	28	0.022	ND(0.020)	ND(0.020)	-	-
Phenanthrene	ug/g	16	16	0.574	0.362	0.100	-	-
Pyrene	ug/g	96	96	1.53	1.05	0.175	-	-
Metals								
Antimony	ug/g	50	50	0.60	-	0.25	0.52	0.44
Arsenic	ug/g	18	18	4.79	-	**97.4**	5.19	**39.4**
Barium	ug/g	670	670	51.3	-	55.5	69.0	116
Beryllium	ug/g	10	10	0.26	-	0.19	0.30	0.46
Boron	ug/g	120	120	14.5	-	11.1	12.7	19.8
Boron (hot water soluble)	ug/g	2	2	0.93	-	0.33	1.02	0.63
Cadmium	ug/g	1.9	1.9	0.423	-	0.403	0.309	0.868
Calcium (soluble)	mg/L	NV	NV	105	-	21.8	44.4	107
Chromium	ug/g	160	160	95.8	-	127	76.9	113
Chromium VI (hexavalent)	ug/g	10	10	2.98	-	2.46	1.96	1.45
Cobalt	ug/g	100	100	3.92	-	3.39	5.16	5.52
Copper	ug/g	300	300	28.6	-	21.8	40.2	26.8
Lead	ug/g	120	120	26.0	-	22.4	30.2	48.0
Magnesium (soluble)	mg/L	NV	NV	ND(0.50)	-	12.0	ND(0.50)	0.78
Mercury	ug/g	20	20	0.0098	-	0.0081	0.0146	0.137
Molybdenum	ug/g	40	40	2.85	-	1.79	2.14	2.02
Nickel	ug/g	340	340	23.4	-	29.0	15.7	172
Selenium	ug/g	5.5	5.5	ND(0.20)	-	ND(0.20)	ND(0.20)	1.09
Silver	ug/g	50	50	ND(0.50)	-	ND(0.50)	ND(0.50)	ND(0.50)
Sodium (soluble)	mg/L	NV	NV	13.3	-	26.4	55.2	62.8
Thallium	ug/g	3.3	3.3	0.190	-	0.052	0.373	0.059
Uranium	ug/g	33	33	0.456	-	0.548	0.478	1.16
Vanadium	ug/g	86	86	67.5	-	**309**	69.4	**387**
Zinc	ug/g	340	340	112	-	106	126	145

Table 6

Summary of Soil Analytical Results
Phase Two Environmental Site Assessment
2524 Cawthra Road, Mississauga, Ontario
The Corporation of the City of Mississauga

Sample Location:				**BH4-22**		**BH5-22**	**BH6-22**	**BH7-22**
Sample Identification:				**S-12581540-220614-JB-BH4-22-0.0-0.6**	**S-12581540-220614-JB-BH4-22-0.0-0.6X**	**S-12581540-220614-JB-BH5-22-0.0-0.6**	**S-12581540-220614-JB-BH6-22-0.0-0.6**	**S-12581540-220613-JB-BH7-22-0.0-0.6**
Sample Date:				**06/14/2022**	**06/14/2022**	**06/14/2022**	**06/14/2022**	**06/13/2022**
Sample Depth (mBGS):				**0.00-0.60**	**0.00-0.60**	**0.00-0.60**	**0.00-0.60**	**0.00-0.60**
Lab Certificate of Analysis:				**WT2205639**	**WT2205639**	**WT2205639**	**WT2205639**	**WT2205639**
Parameters	**Units**	**2011 MOE Standards**			***Field Duplicate***			
		Table 3 ICC[1]	**Table 7 ICC[2]**					
Polychlorinated Biphenyls (PCBs)								
Aroclor-1016 (PCB-1016)	ug/g	NV	NV	-	-	-	-	ND(0.040)
Aroclor-1221 (PCB-1221)	ug/g	NV	NV	-	-	-	-	ND(0.040)
Aroclor-1232 (PCB-1232)	ug/g	NV	NV	-	-	-	-	ND(0.040)
Aroclor-1242 (PCB-1242)	ug/g	NV	NV	-	-	-	-	ND(0.040)
Aroclor-1248 (PCB-1248)	ug/g	NV	NV	-	-	-	-	ND(0.040)
Aroclor-1254 (PCB-1254)	ug/g	NV	NV	-	-	-	-	ND(0.040)
Aroclor-1260 (PCB-1260)	ug/g	NV	NV	-	-	-	-	ND(0.040)
Aroclor-1262 (PCB-1262)	ug/g	NV	NV	-	-	-	-	ND(0.040)
Aroclor-1268 (PCB-1268)	ug/g	NV	NV	-	-	-	-	ND(0.040)
Total PCBs	ug/g	1.1	1.1	-	-	-	-	ND(0.120)
Petroleum Hydrocarbons (PHCs)								
PHCs F1 (C6-C10)	ug/g	65	65	ND(5.0)	-	ND(5.0)	ND(5.0)	ND(5.0)
PHCs F1 minus BTEX	ug/g	65	65	ND(5)	-	ND(5)	ND(5)	ND(5)
PHCs F2 (C10-C16)	ug/g	250	250	ND(57)	-	ND(57)	ND(63)	ND(30)
PHCs F2 minus Naphthalene	ug/g	250	250	ND(57)	-	ND(57)	-	-
PHCs F3 (C16-C34)	ug/g	2500	2500	**2790**	-	1720	1400	806
PHCs F3 minus PAH	ug/g	2500	2500	**2780**	-	1720	-	-
PHCs F4 (C34-C50)	ug/g	6600	6600	5450	-	4920	3580	2330
PHCs F4 gravimetric - silica gel (GHH)	ug/g	6600	6600	**15800**	-	**13700**	**11200**	**6630**
Total PHCs (C6-C50)	ug/g	NV	NV	8240	-	6640	4980	3140
General Chemistry								
Conductivity	mS/cm	1.4	1.4	0.583	-	0.326	0.503	0.826
Cyanide, weak acid dissociable	ug/g	0.051	0.051	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
Moisture	%	NV	NV	7.23	7.26	8.36	7.46	22.0
pH, soluble (1:2)	s.u.	(5-11) 5-9	(5-11) 5-9	**10.9**	-	**10.9**	**10.7**	**10.8**
Sodium adsorption ratio (SAR)	none	12	12	0.36	-	1.13	2.28	1.66

Notes:

[1]	Ontario Ministry of Environment (MOE) Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition for Industrial/Commercial/Community Property Use with medium to fine textured soils, April 2011
[2]	MOE, Table 7: Generic Site Condition Standards for Shallow Soils in a Non-Potable Ground Water Condition for Industrial/Commercial/Community Property Use with medium to fine textured soils, April 2011
mBGS	metres Below Ground Surface
ug/g	micrograms per gram
mS/cm	milliSiemens per centimetre
%	percent
s.u.	standard units
NV	No value
ND(0.01)	Not detected at the associated reporting limit indicated in brackets
-	Not analyzed
RED	Concentration above MOE Table 3 Standards
	Concentration above MOE Table 7 Standards

Table 6

Summary of Soil Analytical Results
Phase Two Environmental Site Assessment
2524 Cawthra Road, Mississauga, Ontario
The Corporation of the City of Mississauga

Sample Location:				BH8-22		BH9-22		BH10-22
Sample Identification:				S-12581540-220614-JB-BH8-22-0.0-0.6	S-12581540-220614-JB-BH8-22-0.0-0.6X	S-12581540-220614-JB-BH9-22-0.0-0.6	S-12581540-220614-JB-BH9-22-0.0-0.6X	S-12581540-220613-JB-BH10-22-0.0-0.6
Sample Date:				06/14/2022	06/14/2022	06/14/2022	06/14/2022	06/13/2022
Sample Depth (mBGS):				0.00-0.60	0.00-0.60	0.00-0.60	0.00-0.60	0.00-0.60
Lab Certificate of Analysis:				WT2205639	WT2205639	WT2205639	WT2205639	WT2205639
Parameters	**Units**	**2011 MOE Standards**			***Field Duplicate***		***Field Duplicate***	
		Table 3 ICC[1]	**Table 7 ICC[2]**					
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	ug/g	0.11	0.11	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
1,1,1-Trichloroethane	ug/g	12	12	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
1,1,2,2-Tetrachloroethane	ug/g	0.094	0.094	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
1,1,2-Trichloroethane	ug/g	0.11	0.11	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
1,1-Dichloroethane	ug/g	21	21	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
1,1-Dichloroethene	ug/g	0.48	0.48	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
Ethylene dibromide	ug/g	0.05	0.05	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
1,2-Dichlorobenzene	ug/g	8.5	8.5	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
1,2-Dichloroethane	ug/g	0.05	0.05	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
1,2-Dichloropropane	ug/g	0.68	0.68	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
1,3-Dichlorobenzene	ug/g	12	12	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
1,4-Dichlorobenzene	ug/g	0.84	0.84	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
Methyl ethyl ketone	ug/g	88	88	ND(0.50)	-	ND(0.50)	ND(0.50)	ND(0.50)
Methyl isobutyl ketone	ug/g	210	210	ND(0.50)	-	ND(0.50)	ND(0.50)	ND(0.50)
Acetone	ug/g	28	28	ND(0.50)	-	ND(0.50)	ND(0.50)	ND(0.50)
Benzene	ug/g	0.4	0.4	ND(0.0050)	-	0.0794	0.0164	ND(0.0050)
Bromodichloromethane	ug/g	18	18	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
Bromoform	ug/g	1.7	1.7	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
Bromomethane (Methyl bromide)	ug/g	0.05	0.05	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
Carbon tetrachloride	ug/g	1.5	1.5	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
Chlorobenzene	ug/g	2.7	2.7	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
Chloroform (Trichloromethane)	ug/g	0.18	0.18	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
cis-1,2-Dichloroethene	ug/g	37	37	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
cis-1,3-Dichloropropene	ug/g	NV	NV	ND(0.030)	-	ND(0.030)	ND(0.030)	ND(0.030)
cis/trans-1,3-Dichloropropene	ug/g	0.21	0.21	ND(0.05)	-	ND(0.05)	ND(0.05)	ND(0.05)
Dibromochloromethane	ug/g	13	13	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
Dichlorodifluoromethane (CFC-12)	ug/g	25	25	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
Ethylbenzene	ug/g	19	19	ND(0.015)	-	0.408	0.066	ND(0.015)
Hexane	ug/g	88	88	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
m&p-Xylenes	ug/g	NV	NV	ND(0.030)	-	0.365	0.052	ND(0.030)
Methyl tert butyl ether (MTBE)	ug/g	3.2	3.2	ND(0.040)	-	ND(0.040)	ND(0.040)	ND(0.040)
Methylene chloride	ug/g	2	2	ND(0.045)	-	ND(0.045)	ND(0.045)	ND(0.045)
o-Xylene	ug/g	NV	NV	ND(0.030)	-	0.210	0.038	ND(0.030)
Styrene	ug/g	43	43	ND(0.050)	-	0.125	0.115	ND(0.050)
Tetrachloroethene	ug/g	21	21	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
Toluene	ug/g	78	78	ND(0.050)	-	0.393	0.083	ND(0.050)
Total BTEX	ug/g	NV	NV	ND(0.1)	-	1.46	0.26	ND(0.1)
trans-1,2-Dichloroethene	ug/g	9.3	9.3	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
trans-1,3-Dichloropropene	ug/g	NV	NV	ND(0.030)	-	ND(0.030)	ND(0.030)	ND(0.030)
Trichloroethene	ug/g	0.61	0.61	ND(0.010)	-	ND(0.010)	ND(0.010)	ND(0.010)
Trichlorofluoromethane (CFC-11)	ug/g	5.8	5.8	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)
Vinyl chloride	ug/g	0.25	0.25	ND(0.020)	-	ND(0.020)	ND(0.020)	ND(0.020)
Xylenes (total)	ug/g	30	30	ND(0.05)	-	0.575	0.090	ND(0.05)

Table 6

Summary of Soil Analytical Results
Phase Two Environmental Site Assessment
2524 Cawthra Road, Mississauga, Ontario
The Corporation of the City of Mississauga

Sample Location:				BH8-22		BH9-22		BH10-22
Sample Identification:				S-12581540-220614-JB-BH8-22-0.0-0.6	S-12581540-220614-JB-BH8-22-0.0-0.6X	S-12581540-220614-JB-BH9-22-0.0-0.6	S-12581540-220614-JB-BH9-22-0.0-0.6X	S-12581540-220613-JB-BH10-22-0.0-0.6
Sample Date:				06/14/2022	06/14/2022	06/14/2022	06/14/2022	06/13/2022
Sample Depth (mBGS):				0.00-0.60	0.00-0.60	0.00-0.60	0.00-0.60	0.00-0.60
Lab Certificate of Analysis:				WT2205639	WT2205639	WT2205639	WT2205639	WT2205639
Parameters	**Units**	**2011 MOE Standards**			***Field Duplicate***		***Field Duplicate***	
		Table 3 ICC[1]	**Table 7 ICC[2]**					
Semi-Volatile Organic Compounds								
1+2-Methylnaphthalene	ug/g	85	85	0.148	0.144	-	-	0.310
1-Methylnaphthalene	ug/g	85	85	0.082	0.081	-	-	0.124
2-Methylnaphthalene	ug/g	85	85	0.066	0.063	-	-	0.186
Acenaphthene	ug/g	96	96	0.085	0.086	-	-	0.157
Acenaphthylene	ug/g	0.17	0.17	ND(0.050)	ND(0.050)	-	-	ND(0.050)
Anthracene	ug/g	0.74	0.74	0.243	0.292	-	-	0.499
Benzo(a)anthracene	ug/g	0.96	0.96	0.774	**1.09**	-	-	0.704
Benzo(a)pyrene	ug/g	0.3	0.3	**0.784**	**1.14**	-	-	**0.667**
Benzo(b/j)fluoranthene	ug/g	0.96	0.96	0.930	**1.44**	-	-	0.831
Benzo(g,h,i)perylene	ug/g	9.6	9.6	0.533	0.676	-	-	0.402
Benzo(k)fluoranthene	ug/g	0.96	0.96	0.406	0.498	-	-	0.258
Chrysene	ug/g	9.6	9.6	0.936	1.24	-	-	0.702
Dibenz(a,h)anthracene	ug/g	0.1	0.1	**0.153**	**0.190**	-	-	**0.120**
Fluoranthene	ug/g	9.6	9.6	1.89	2.63	-	-	1.67
Fluorene	ug/g	69	69	0.087	0.092	-	-	0.327
Indeno(1,2,3-cd)pyrene	ug/g	0.95	0.95	0.478	0.612	-	-	0.331
Naphthalene	ug/g	28	28	0.025	0.028	-	-	0.190
Phenanthrene	ug/g	16	16	1.04	1.36	-	-	1.83
Pyrene	ug/g	96	96	1.54	2.09	-	-	1.31
Metals								
Antimony	ug/g	50	50	0.73	-	38.6	-	0.51
Arsenic	ug/g	18	18	6.86	-	**26.5**	-	5.90
Barium	ug/g	670	670	62.0	-	90.8	-	102
Beryllium	ug/g	10	10	0.30	-	0.31	-	1.01
Boron	ug/g	120	120	11.8	-	9.7	-	14.6
Boron (hot water soluble)	ug/g	2	2	0.47	-	0.97	-	0.77
Cadmium	ug/g	1.9	1.9	0.891	-	**3.99**	-	**2.90**
Calcium (soluble)	mg/L	NV	NV	83.9	-	11.5	-	3.47
Chromium	ug/g	160	160	82.4	-	50.4	-	56.5
Chromium VI (hexavalent)	ug/g	10	10	1.48	-	ND(0.10)	-	0.18
Cobalt	ug/g	100	100	4.99	-	21.2	-	3.34
Copper	ug/g	300	300	39.6	-	26.3	-	19.0
Lead	ug/g	120	120	79.5	-	53.2	-	**286**
Magnesium (soluble)	mg/L	NV	NV	ND(0.50)	-	6.60	-	ND(0.50)
Mercury	ug/g	20	20	0.0339	-	0.310	-	0.0320
Molybdenum	ug/g	40	40	2.40	-	2.21	-	2.60
Nickel	ug/g	340	340	18.3	-	50.1	-	12.3
Selenium	ug/g	5.5	5.5	ND(0.20)	-	0.78	-	0.83
Silver	ug/g	50	50	ND(0.50)	-	ND(0.50)	-	ND(0.50)
Sodium (soluble)	mg/L	NV	NV	25.5	-	111	-	153
Thallium	ug/g	3.3	3.3	0.070	-	0.083	-	0.101
Uranium	ug/g	33	33	0.588	-	0.491	-	1.12
Vanadium	ug/g	86	86	59.9	-	71.3	-	35.8
Zinc	ug/g	340	340	**748**	-	202	-	**1310**

Table 6

Summary of Soil Analytical Results
Phase Two Environmental Site Assessment
2524 Cawthra Road, Mississauga, Ontario
The Corporation of the City of Mississauga

			Sample Location:	**BH8-22**		**BH9-22**		**BH10-22**
			Sample Identification:	**S-12581540-220614-JB-BH8-22-0.0-0.6**	**S-12581540-220614-JB-BH8-22-0.0-0.6X**	**S-12581540-220614-JB-BH9-22-0.0-0.6**	**S-12581540-220614-JB-BH9-22-0.0-0.6X**	**S-12581540-220613-JB-BH10-22-0.0-0.6**
			Sample Date:	**06/14/2022**	**06/14/2022**	**06/14/2022**	**06/14/2022**	**06/13/2022**
			Sample Depth (mBGS):	**0.00-0.60**	**0.00-0.60**	**0.00-0.60**	**0.00-0.60**	**0.00-0.60**
			Lab Certificate of Analysis:	**WT2205639**	**WT2205639**	**WT2205639**	**WT2205639**	**WT2205639**
Parameters	**Units**	**2011 MOE Standards**			***Field Duplicate***		***Field Duplicate***	
		Table 3 ICC[1]	**Table 7 ICC[2]**					
Polychlorinated Biphenyls (PCBs)								
Aroclor-1016 (PCB-1016)	ug/g	NV	NV	-	-	-	-	-
Aroclor-1221 (PCB-1221)	ug/g	NV	NV	-	-	-	-	-
Aroclor-1232 (PCB-1232)	ug/g	NV	NV	-	-	-	-	-
Aroclor-1242 (PCB-1242)	ug/g	NV	NV	-	-	-	-	-
Aroclor-1248 (PCB-1248)	ug/g	NV	NV	-	-	-	-	-
Aroclor-1254 (PCB-1254)	ug/g	NV	NV	-	-	-	-	-
Aroclor-1260 (PCB-1260)	ug/g	NV	NV	-	-	-	-	-
Aroclor-1262 (PCB-1262)	ug/g	NV	NV	-	-	-	-	-
Aroclor-1268 (PCB-1268)	ug/g	NV	NV	-	-	-	-	-
Total PCBs	ug/g	1.1	1.1	-	-	-	-	-
Petroleum Hydrocarbons (PHCs)								
PHCs F1 (C6-C10)	ug/g	65	65	ND(5.0)	-	18.4	9.1	ND(5.0)
PHCs F1 minus BTEX	ug/g	65	65	ND(5)	-	16.9	8.8	ND(5)
PHCs F2 (C10-C16)	ug/g	250	250	80	-	ND(58)	ND(30)	ND(30)
PHCs F2 minus Naphthalene	ug/g	250	250	80	-	-	-	ND(30)
PHCs F3 (C16-C34)	ug/g	2500	2500	1900	-	1120	1110	778
PHCs F3 minus PAH	ug/g	2500	2500	1890	-	-	-	770
PHCs F4 (C34-C50)	ug/g	6600	6600	3580	-	2670	2490	1660
PHCs F4 gravimetric - silica gel (GHH)	ug/g	6600	6600	**11200**	-	**8110**	**6870**	5260
Total PHCs (C6-C50)	ug/g	NV	NV	5560	-	3810	3610	2440
General Chemistry								
Conductivity	mS/cm	1.4	1.4	0.593	-	0.642	-	0.805
Cyanide, weak acid dissociable	ug/g	0.051	0.051	ND(0.050)	-	ND(0.050)	-	ND(0.050)
Moisture	%	NV	NV	8.06	7.51	7.20	9.01	6.95
pH, soluble (1:2)	s.u.	(5-11) 5-9	(5-11) 5-9	**11.1**	-	8.53	-	**10.3**
Sodium adsorption ratio (SAR)	none	12	12	0.77	-	6.46	-	**22.6**

Notes:

(1)	Ontario Ministry of Environment (MOE) Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition for Industrial/Commercial/Community Property Use with medium to fine textured soils, April 2011
(2)	MOE, Table 7: Generic Site Condition Standards for Shallow Soils in a Non-Potable Ground Water Condition for Industrial/Commercial/Community Property Use with medium to fine textured soils, April 2011
mBGS	metres Below Ground Surface
ug/g	micrograms per gram
mS/cm	milliSiemens per centimetre
%	percent
s.u.	standard units
NV	No value
ND(0.01)	Not detected at the associated reporting limit indicated in brackets
-	Not analyzed
RED	Concentration above MOE Table 3 Standards
	Concentration above MOE Table 7 Standards

Table 6

Summary of Soil Analytical Results
Phase Two Environmental Site Assessment
2524 Cawthra Road, Mississauga, Ontario
The Corporation of the City of Mississauga

Sample Location:				BH10-22		BH11-22		BH12-22
Sample Identification:				S-12581540-220613-JB-BH10-22-1.5-1.8	S-12581540-220613-JB-BH10-22-1.5-1.8X	S-12581540-220613-JB-BH11-22-0.0-0.6	S-12581540-220613-JB-BH11-22-1.5-2.1	S-12581540-220610-JB-BH12-22-0.05-0.6
Sample Date:				06/13/2022	06/13/2022	06/13/2022	06/13/2022	06/10/2022
Sample Depth (mBGS):				1.50-1.80	1.50-1.80	0.00-0.60	1.50-2.10	0.05-0.60
Lab Certificate of Analysis:				WT2205639	WT2205639	WT2205639	WT2205639	WT2205480
Parameters	**Units**	**2011 MOE Standards**			***Field Duplicate***			
		Table 3 ICC[1]	**Table 7 ICC[2]**					
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	ug/g	0.11	0.11	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	-
1,1,1-Trichloroethane	ug/g	12	12	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	-
1,1,2,2-Tetrachloroethane	ug/g	0.094	0.094	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	-
1,1,2-Trichloroethane	ug/g	0.11	0.11	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	-
1,1-Dichloroethane	ug/g	21	21	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	-
1,1-Dichloroethene	ug/g	0.48	0.48	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	-
Ethylene dibromide	ug/g	0.05	0.05	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	-
1,2-Dichlorobenzene	ug/g	8.5	8.5	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	-
1,2-Dichloroethane	ug/g	0.05	0.05	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	-
1,2-Dichloropropane	ug/g	0.68	0.68	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	-
1,3-Dichlorobenzene	ug/g	12	12	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	-
1,4-Dichlorobenzene	ug/g	0.84	0.84	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	-
Methyl ethyl ketone	ug/g	88	88	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	-
Methyl isobutyl ketone	ug/g	210	210	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	-
Acetone	ug/g	28	28	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	-
Benzene	ug/g	0.4	0.4	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	-
Bromodichloromethane	ug/g	18	18	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	-
Bromoform	ug/g	1.7	1.7	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	-
Bromomethane (Methyl bromide)	ug/g	0.05	0.05	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	-
Carbon tetrachloride	ug/g	1.5	1.5	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	-
Chlorobenzene	ug/g	2.7	2.7	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	-
Chloroform (Trichloromethane)	ug/g	0.18	0.18	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	-
cis-1,2-Dichloroethene	ug/g	37	37	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	-
cis-1,3-Dichloropropene	ug/g	NV	NV	ND(0.030)	ND(0.030)	ND(0.030)	ND(0.030)	-
cis/trans-1,3-Dichloropropene	ug/g	0.21	0.21	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	-
Dibromochloromethane	ug/g	13	13	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	-
Dichlorodifluoromethane (CFC-12)	ug/g	25	25	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	-
Ethylbenzene	ug/g	19	19	ND(0.015)	ND(0.015)	0.016	ND(0.015)	-
Hexane	ug/g	88	88	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	-
m&p-Xylenes	ug/g	NV	NV	ND(0.030)	ND(0.030)	ND(0.030)	ND(0.030)	-
Methyl tert butyl ether (MTBE)	ug/g	3.2	3.2	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	-
Methylene chloride	ug/g	2	2	ND(0.045)	ND(0.045)	ND(0.045)	ND(0.045)	-
o-Xylene	ug/g	NV	NV	ND(0.030)	ND(0.030)	ND(0.030)	ND(0.030)	-
Styrene	ug/g	43	43	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	-
Tetrachloroethene	ug/g	21	21	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	-
Toluene	ug/g	78	78	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	-
Total BTEX	ug/g	NV	NV	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)	-
trans-1,2-Dichloroethene	ug/g	9.3	9.3	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	-
trans-1,3-Dichloropropene	ug/g	NV	NV	ND(0.030)	ND(0.030)	ND(0.030)	ND(0.030)	-
Trichloroethene	ug/g	0.61	0.61	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	-
Trichlorofluoromethane (CFC-11)	ug/g	5.8	5.8	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	-
Vinyl chloride	ug/g	0.25	0.25	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	-
Xylenes (total)	ug/g	30	30	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	-

Table 6

Summary of Soil Analytical Results
Phase Two Environmental Site Assessment
2524 Cawthra Road, Mississauga, Ontario
The Corporation of the City of Mississauga

Sample Location:				BH10-22		BH11-22		BH12-22
Sample Identification:				S-12581540-220613-JB-BH10-22-1.5-1.8	S-12581540-220613-JB-BH10-22-1.5-1.8X	S-12581540-220613-JB-BH11-22-0.0-0.6	S-12581540-220613-JB-BH11-22-1.5-2.1	S-12581540-220610-JB-BH12-22-0.05-0.6
Sample Date:				06/13/2022	06/13/2022	06/13/2022	06/13/2022	06/10/2022
Sample Depth (mBGS):				1.50-1.80	1.50-1.80	0.00-0.60	1.50-2.10	0.05-0.60
Lab Certificate of Analysis:				WT2205639	WT2205639	WT2205639	WT2205639	WT2205480
Parameters	**Units**	**2011 MOE Standards**			***Field Duplicate***			
		Table 3 ICC[1]	**Table 7 ICC[2]**					
Semi-Volatile Organic Compounds								
1+2-Methylnaphthalene	ug/g	85	85	-	-	1.29	-	-
1-Methylnaphthalene	ug/g	85	85	-	-	0.670	-	-
2-Methylnaphthalene	ug/g	85	85	-	-	0.618	-	-
Acenaphthene	ug/g	96	96	-	-	1.96	-	-
Acenaphthylene	ug/g	0.17	0.17	-	-	**0.570**	-	-
Anthracene	ug/g	0.74	0.74	-	-	**8.21**	-	-
Benzo(a)anthracene	ug/g	0.96	0.96	-	-	**17.6**	-	-
Benzo(a)pyrene	ug/g	0.3	0.3	-	-	**14.8**	-	-
Benzo(b/j)fluoranthene	ug/g	0.96	0.96	-	-	**15.8**	-	-
Benzo(g,h,i)perylene	ug/g	9.6	9.6	-	-	6.16	-	-
Benzo(k)fluoranthene	ug/g	0.96	0.96	-	-	**8.73**	-	-
Chrysene	ug/g	9.6	9.6	-	-	**15.4**	-	-
Dibenz(a,h)anthracene	ug/g	0.1	0.1	-	-	**2.28**	-	-
Fluoranthene	ug/g	9.6	9.6	-	-	**39.1**	-	-
Fluorene	ug/g	69	69	-	-	3.74	-	-
Indeno(1,2,3-cd)pyrene	ug/g	0.95	0.95	-	-	**7.76**	-	-
Naphthalene	ug/g	28	28	-	-	0.958	-	-
Phenanthrene	ug/g	16	16	-	-	**30.7**	-	-
Pyrene	ug/g	96	96	-	-	29.6	-	-
Metals								
Antimony	ug/g	50	50	-	-	1.02	-	0.36
Arsenic	ug/g	18	18	-	-	7.06	-	10.2
Barium	ug/g	670	670	-	-	137	-	136
Beryllium	ug/g	10	10	-	-	0.42	-	0.33
Boron	ug/g	120	120	-	-	18.4	-	8.1
Boron (hot water soluble)	ug/g	2	2	-	-	1.57	-	0.43
Cadmium	ug/g	1.9	1.9	-	-	1.33	-	0.793
Calcium (soluble)	mg/L	NV	NV	-	-	8.05	-	12.4
Chromium	ug/g	160	160	-	-	98.1	-	15.2
Chromium VI (hexavalent)	ug/g	10	10	-	-	0.42	-	ND(0.66)
Cobalt	ug/g	100	100	-	-	6.82	-	5.88
Copper	ug/g	300	300	-	-	37.0	-	32.9
Lead	ug/g	120	120	-	-	115	-	53.5
Magnesium (soluble)	mg/L	NV	NV	-	-	0.59	-	1.34
Mercury	ug/g	20	20	-	-	0.0599	-	0.0187
Molybdenum	ug/g	40	40	-	-	3.28	-	1.05
Nickel	ug/g	340	340	-	-	18.9	-	14.0
Selenium	ug/g	5.5	5.5	-	-	0.30	-	ND(0.20)
Silver	ug/g	50	50	-	-	ND(0.50)	-	ND(0.10)
Sodium (soluble)	mg/L	NV	NV	-	-	130	-	39.7
Thallium	ug/g	3.3	3.3	-	-	0.121	-	0.086
Uranium	ug/g	33	33	-	-	0.930	-	0.392
Vanadium	ug/g	86	86	-	-	42.6	-	22.6
Zinc	ug/g	340	340	-	-	**472**	-	79.8

Table 6

Summary of Soil Analytical Results
Phase Two Environmental Site Assessment
2524 Cawthra Road, Mississauga, Ontario
The Corporation of the City of Mississauga

Sample Location:				BH10-22		BH11-22		BH12-22
Sample Identification:				S-12581540-220613-JB-BH10-22-1.5-1.8	S-12581540-220613-JB-BH10-22-1.5-1.8X	S-12581540-220613-JB-BH11-22-0.0-0.6	S-12581540-220613-JB-BH11-22-1.5-2.1	S-12581540-220610-JB-BH12-22-0.05-0.6
Sample Date:				06/13/2022	06/13/2022	06/13/2022	06/13/2022	06/10/2022
Sample Depth (mBGS):				1.50-1.80	1.50-1.80	0.00-0.60	1.50-2.10	0.05-0.60
Lab Certificate of Analysis:				WT2205639	WT2205639	WT2205639	WT2205639	WT2205480
Parameters	**Units**	**2011 MOE Standards**			***Field Duplicate***			
		Table 3 ICC[1]	**Table 7 ICC[2]**					
Polychlorinated Biphenyls (PCBs)								
Aroclor-1016 (PCB-1016)	ug/g	NV	NV	-	-	ND(0.010)	-	-
Aroclor-1221 (PCB-1221)	ug/g	NV	NV	-	-	ND(0.010)	-	-
Aroclor-1232 (PCB-1232)	ug/g	NV	NV	-	-	ND(0.010)	-	-
Aroclor-1242 (PCB-1242)	ug/g	NV	NV	-	-	ND(0.010)	-	-
Aroclor-1248 (PCB-1248)	ug/g	NV	NV	-	-	ND(0.010)	-	-
Aroclor-1254 (PCB-1254)	ug/g	NV	NV	-	-	0.055	-	-
Aroclor-1260 (PCB-1260)	ug/g	NV	NV	-	-	0.051	-	-
Aroclor-1262 (PCB-1262)	ug/g	NV	NV	-	-	ND(0.010)	-	-
Aroclor-1268 (PCB-1268)	ug/g	NV	NV	-	-	ND(0.010)	-	-
Total PCBs	ug/g	1.1	1.1	-	-	0.106	-	-
Petroleum Hydrocarbons (PHCs)								
PHCs F1 (C6-C10)	ug/g	65	65	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	-
PHCs F1 minus BTEX	ug/g	65	65	ND(5)	ND(5)	ND(5)	ND(5)	-
PHCs F2 (C10-C16)	ug/g	250	250	ND(10)	109	ND(66)	ND(62)	-
PHCs F2 minus Naphthalene	ug/g	250	250	-	-	ND(66)	-	-
PHCs F3 (C16-C34)	ug/g	2500	2500	51	ND(50)	1120	1190	-
PHCs F3 minus PAH	ug/g	2500	2500	-	-	954	-	-
PHCs F4 (C34-C50)	ug/g	6600	6600	118	ND(50)	2660	2600	-
PHCs F4 gravimetric - silica gel (GHH)	ug/g	6600	6600	-	-	**8590**	**8180**	-
Total PHCs (C6-C50)	ug/g	NV	NV	169	109	3780	3790	-
General Chemistry								
Conductivity	mS/cm	1.4	1.4	-	-	0.678	-	0.265
Cyanide, weak acid dissociable	ug/g	0.051	0.051	-	-	ND(0.050)	-	ND(0.050)
Moisture	%	NV	NV	13.2	8.69	6.62	12.8	6.08
pH, soluble (1:2)	s.u.	(5-11) 5-9	(5-11) 5-9	-	-	**9.53**	-	8.47
Sodium adsorption ratio (SAR)	none	12	12	-	-	11.9	-	2.86

Notes:

[1]	Ontario Ministry of Environment (MOE) Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition for Industrial/Commercial/Community Property Use with medium to fine textured soils, April 2011
[2]	MOE, Table 7: Generic Site Condition Standards for Shallow Soils in a Non-Potable Ground Water Condition for Industrial/Commercial/Community Property Use with medium to fine textured soils, April 2011
mBGS	metres Below Ground Surface
ug/g	micrograms per gram
mS/cm	milliSiemens per centimetre
%	percent
s.u.	standard units
NV	No value
ND(0.01)	Not detected at the associated reporting limit indicated in brackets
-	Not analyzed
RED	Concentration above MOE Table 3 Standards
	Concentration above MOE Table 7 Standards

Table 6

Summary of Soil Analytical Results
Phase Two Environmental Site Assessment
2524 Cawthra Road, Mississauga, Ontario
The Corporation of the City of Mississauga

			Sample Location:	**BH12-22**	**BH13-22**		**BH14-22**	
			Sample Identification:	**S-12581540-220610-JB-BH12-22-0.05-0.6**	**S-12581540-220610-JB-BH13-22-0.0-0.6**	**S-12581540-220610-JB-BH13-22-1.5-1.8**	**S-12581540-220610-JB-BH14-22-0.8-1.4**	**S-12581540-220610-JB-BH14-22-0.8-1.4**
			Sample Date:	**06/10/2022**	**06/10/2022**	**06/10/2022**	**06/10/2022**	**06/10/2022**
			Sample Depth (mBGS):	**0.05-0.60**	**0.00-0.60**	**1.50-1.80**	**0.80-1.40**	**0.80-1.40**
			Lab Certificate of Analysis:	**WT2205639**	**WT2205480**	**WT2205480**	**WT2205480**	**WT2205639**
Parameters	**Units**	**2011 MOE Standards**						
		Table 3 ICC[1]	**Table 7 ICC[2]**					
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	ug/g	0.11	0.11	ND(0.050)	ND(0.050)	ND(0.050)	-	ND(0.050)
1,1,1-Trichloroethane	ug/g	12	12	ND(0.050)	ND(0.050)	ND(0.050)	-	ND(0.050)
1,1,2,2-Tetrachloroethane	ug/g	0.094	0.094	ND(0.050)	ND(0.050)	ND(0.050)	-	ND(0.050)
1,1,2-Trichloroethane	ug/g	0.11	0.11	ND(0.050)	ND(0.050)	ND(0.050)	-	ND(0.050)
1,1-Dichloroethane	ug/g	21	21	ND(0.050)	ND(0.050)	ND(0.050)	-	ND(0.050)
1,1-Dichloroethene	ug/g	0.48	0.48	ND(0.050)	ND(0.050)	ND(0.050)	-	ND(0.050)
Ethylene dibromide	ug/g	0.05	0.05	ND(0.050)	ND(0.050)	ND(0.050)	-	ND(0.050)
1,2-Dichlorobenzene	ug/g	8.5	8.5	ND(0.050)	ND(0.050)	ND(0.050)	-	ND(0.050)
1,2-Dichloroethane	ug/g	0.05	0.05	ND(0.050)	ND(0.050)	ND(0.050)	-	ND(0.050)
1,2-Dichloropropane	ug/g	0.68	0.68	ND(0.050)	ND(0.050)	ND(0.050)	-	ND(0.050)
1,3-Dichlorobenzene	ug/g	12	12	ND(0.050)	ND(0.050)	ND(0.050)	-	ND(0.050)
1,4-Dichlorobenzene	ug/g	0.84	0.84	ND(0.050)	ND(0.050)	ND(0.050)	-	ND(0.050)
Methyl ethyl ketone	ug/g	88	88	ND(0.50)	ND(0.50)	ND(0.50)	-	ND(0.50)
Methyl isobutyl ketone	ug/g	210	210	ND(0.50)	ND(0.50)	ND(0.50)	-	ND(0.50)
Acetone	ug/g	28	28	ND(0.50)	ND(0.50)	ND(0.50)	-	ND(0.50)
Benzene	ug/g	0.4	0.4	ND(0.0050)	ND(0.0050)	ND(0.0050)	-	ND(0.0050)
Bromodichloromethane	ug/g	18	18	ND(0.050)	ND(0.050)	ND(0.050)	-	ND(0.050)
Bromoform	ug/g	1.7	1.7	ND(0.050)	ND(0.050)	ND(0.050)	-	ND(0.050)
Bromomethane (Methyl bromide)	ug/g	0.05	0.05	ND(0.050)	ND(0.050)	ND(0.050)	-	ND(0.050)
Carbon tetrachloride	ug/g	1.5	1.5	ND(0.050)	ND(0.050)	ND(0.050)	-	ND(0.050)
Chlorobenzene	ug/g	2.7	2.7	ND(0.050)	ND(0.050)	ND(0.050)	-	ND(0.050)
Chloroform (Trichloromethane)	ug/g	0.18	0.18	ND(0.050)	ND(0.050)	ND(0.050)	-	ND(0.050)
cis-1,2-Dichloroethene	ug/g	37	37	ND(0.050)	ND(0.050)	ND(0.050)	-	ND(0.050)
cis-1,3-Dichloropropene	ug/g	NV	NV	ND(0.030)	ND(0.030)	ND(0.030)	-	ND(0.030)
cis/trans-1,3-Dichloropropene	ug/g	0.21	0.21	ND(0.05)	ND(0.05)	ND(0.05)	-	ND(0.05)
Dibromochloromethane	ug/g	13	13	ND(0.050)	ND(0.050)	ND(0.050)	-	ND(0.050)
Dichlorodifluoromethane (CFC-12)	ug/g	25	25	ND(0.050)	ND(0.050)	ND(0.050)	-	ND(0.050)
Ethylbenzene	ug/g	19	19	ND(0.015)	ND(0.015)	ND(0.015)	-	ND(0.015)
Hexane	ug/g	88	88	ND(0.050)	ND(0.050)	ND(0.050)	-	ND(0.050)
m&p-Xylenes	ug/g	NV	NV	ND(0.030)	ND(0.030)	ND(0.030)	-	ND(0.030)
Methyl tert butyl ether (MTBE)	ug/g	3.2	3.2	ND(0.040)	ND(0.040)	ND(0.040)	-	ND(0.040)
Methylene chloride	ug/g	2	2	ND(0.045)	ND(0.045)	ND(0.045)	-	ND(0.045)
o-Xylene	ug/g	NV	NV	ND(0.030)	ND(0.030)	ND(0.030)	-	ND(0.030)
Styrene	ug/g	43	43	ND(0.050)	ND(0.050)	ND(0.050)	-	ND(0.050)
Tetrachloroethene	ug/g	21	21	ND(0.050)	ND(0.050)	ND(0.050)	-	ND(0.050)
Toluene	ug/g	78	78	ND(0.050)	ND(0.050)	ND(0.050)	-	ND(0.050)
Total BTEX	ug/g	NV	NV	ND(0.1)	ND(0.1)	ND(0.1)	-	ND(0.1)
trans-1,2-Dichloroethene	ug/g	9.3	9.3	ND(0.050)	ND(0.050)	ND(0.050)	-	ND(0.050)
trans-1,3-Dichloropropene	ug/g	NV	NV	ND(0.030)	ND(0.030)	ND(0.030)	-	ND(0.030)
Trichloroethene	ug/g	0.61	0.61	ND(0.010)	ND(0.010)	ND(0.010)	-	ND(0.010)
Trichlorofluoromethane (CFC-11)	ug/g	5.8	5.8	ND(0.050)	ND(0.050)	ND(0.050)	-	ND(0.050)
Vinyl chloride	ug/g	0.25	0.25	ND(0.020)	ND(0.020)	ND(0.020)	-	ND(0.020)
Xylenes (total)	ug/g	30	30	ND(0.05)	ND(0.05)	ND(0.05)	-	ND(0.05)

Table 6

Summary of Soil Analytical Results
Phase Two Environmental Site Assessment
2524 Cawthra Road, Mississauga, Ontario
The Corporation of the City of Mississauga

			Sample Location:	**BH12-22**	**BH13-22**		**BH14-22**	
			Sample Identification:	**S-12581540-220610-JB-BH12-22-0.05-0.6**	**S-12581540-220610-JB-BH13-22-0.0-0.6**	**S-12581540-220610-JB-BH13-22-1.5-1.8**	**S-12581540-220610-JB-BH14-22-0.8-1.4**	**S-12581540-220610-JB-BH14-22-0.8-1.4**
			Sample Date:	**06/10/2022**	**06/10/2022**	**06/10/2022**	**06/10/2022**	**06/10/2022**
			Sample Depth (mBGS):	**0.05-0.60**	**0.00-0.60**	**1.50-1.80**	**0.80-1.40**	**0.80-1.40**
			Lab Certificate of Analysis:	**WT2205639**	**WT2205480**	**WT2205480**	**WT2205480**	**WT2205639**
Parameters	**Units**	**2011 MOE Standards**						
		Table 3 ICC[1]	**Table 7 ICC[2]**					
Semi-Volatile Organic Compounds								
1+2-Methylnaphthalene	ug/g	85	85	-	ND(0.05)	-	-	-
1-Methylnaphthalene	ug/g	85	85	-	ND(0.030)	-	-	-
2-Methylnaphthalene	ug/g	85	85	-	ND(0.030)	-	-	-
Acenaphthene	ug/g	96	96	-	ND(0.050)	-	-	-
Acenaphthylene	ug/g	0.17	0.17	-	ND(0.050)	-	-	-
Anthracene	ug/g	0.74	0.74	-	ND(0.050)	-	-	-
Benzo(a)anthracene	ug/g	0.96	0.96	-	ND(0.050)	-	-	-
Benzo(a)pyrene	ug/g	0.3	0.3	-	ND(0.050)	-	-	-
Benzo(b/j)fluoranthene	ug/g	0.96	0.96	-	ND(0.050)	-	-	-
Benzo(g,h,i)perylene	ug/g	9.6	9.6	-	ND(0.050)	-	-	-
Benzo(k)fluoranthene	ug/g	0.96	0.96	-	ND(0.050)	-	-	-
Chrysene	ug/g	9.6	9.6	-	ND(0.050)	-	-	-
Dibenz(a,h)anthracene	ug/g	0.1	0.1	-	ND(0.050)	-	-	-
Fluoranthene	ug/g	9.6	9.6	-	ND(0.050)	-	-	-
Fluorene	ug/g	69	69	-	ND(0.050)	-	-	-
Indeno(1,2,3-cd)pyrene	ug/g	0.95	0.95	-	ND(0.050)	-	-	-
Naphthalene	ug/g	28	28	-	ND(0.010)	-	-	-
Phenanthrene	ug/g	16	16	-	ND(0.050)	-	-	-
Pyrene	ug/g	96	96	-	ND(0.050)	-	-	-
Metals								
Antimony	ug/g	50	50	-	0.84	-	0.18	-
Arsenic	ug/g	18	18	-	6.87	-	7.11	-
Barium	ug/g	670	670	-	130	-	164	-
Beryllium	ug/g	10	10	-	0.37	-	0.71	-
Boron	ug/g	120	120	-	9.3	-	9.3	-
Boron (hot water soluble)	ug/g	2	2	-	1.15	-	0.57	-
Cadmium	ug/g	1.9	1.9	-	0.592	-	0.089	-
Calcium (soluble)	mg/L	NV	NV	-	21.8	-	4.23	-
Chromium	ug/g	160	160	-	42.5	-	23.6	-
Chromium VI (hexavalent)	ug/g	10	10	-	ND(0.66)	-	ND(0.66)	-
Cobalt	ug/g	100	100	-	7.54	-	10.8	-
Copper	ug/g	300	300	-	27.1	-	37.9	-
Lead	ug/g	120	120	-	43.3	-	6.12	-
Magnesium (soluble)	mg/L	NV	NV	-	3.44	-	0.64	-
Mercury	ug/g	20	20	-	0.0209	-	0.0186	-
Molybdenum	ug/g	40	40	-	1.19	-	0.66	-
Nickel	ug/g	340	340	-	13.9	-	23.9	-
Selenium	ug/g	5.5	5.5	-	0.23	-	ND(0.20)	-
Silver	ug/g	50	50	-	ND(0.10)	-	ND(0.10)	-
Sodium (soluble)	mg/L	NV	NV	-	72.0	-	139	-
Thallium	ug/g	3.3	3.3	-	0.082	-	0.188	-
Uranium	ug/g	33	33	-	0.379	-	0.413	-
Vanadium	ug/g	86	86	-	41.4	-	34.7	-
Zinc	ug/g	340	340	-	75.1	-	51.9	-

Table 6

Summary of Soil Analytical Results
Phase Two Environmental Site Assessment
2524 Cawthra Road, Mississauga, Ontario
The Corporation of the City of Mississauga

			Sample Location:	**BH12-22**	**BH13-22**		**BH14-22**	
			Sample Identification:	**S-12581540-220610-JB-BH12-22-0.05-0.6**	**S-12581540-220610-JB-BH13-22-0.0-0.6**	**S-12581540-220610-JB-BH13-22-1.5-1.8**	**S-12581540-220610-JB-BH14-22-0.8-1.4**	**S-12581540-220610-JB-BH14-22-0.8-1.4**
			Sample Date:	**06/10/2022**	**06/10/2022**	**06/10/2022**	**06/10/2022**	**06/10/2022**
			Sample Depth (mBGS):	**0.05-0.60**	**0.00-0.60**	**1.50-1.80**	**0.80-1.40**	**0.80-1.40**
			Lab Certificate of Analysis:	**WT2205639**	**WT2205480**	**WT2205480**	**WT2205480**	**WT2205639**
Parameters	**Units**	**2011 MOE Standards**						
		Table 3 ICC[1]	**Table 7 ICC[2]**					
Polychlorinated Biphenyls (PCBs)								
Aroclor-1016 (PCB-1016)	ug/g	NV	NV	-	ND(0.010)	-	-	-
Aroclor-1221 (PCB-1221)	ug/g	NV	NV	-	ND(0.010)	-	-	-
Aroclor-1232 (PCB-1232)	ug/g	NV	NV	-	ND(0.010)	-	-	-
Aroclor-1242 (PCB-1242)	ug/g	NV	NV	-	ND(0.010)	-	-	-
Aroclor-1248 (PCB-1248)	ug/g	NV	NV	-	ND(0.010)	-	-	-
Aroclor-1254 (PCB-1254)	ug/g	NV	NV	-	ND(0.010)	-	-	-
Aroclor-1260 (PCB-1260)	ug/g	NV	NV	-	ND(0.010)	-	-	-
Aroclor-1262 (PCB-1262)	ug/g	NV	NV	-	ND(0.010)	-	-	-
Aroclor-1268 (PCB-1268)	ug/g	NV	NV	-	ND(0.010)	-	-	-
Total PCBs	ug/g	1.1	1.1	-	ND(0.030)	-	-	-
Petroleum Hydrocarbons (PHCs)								
PHCs F1 (C6-C10)	ug/g	65	65	ND(5.0)	ND(5.0)	ND(5.0)	-	ND(5.0)
PHCs F1 minus BTEX	ug/g	65	65	ND(5)	ND(5)	ND(5)	-	ND(5)
PHCs F2 (C10-C16)	ug/g	250	250	ND(10)	ND(60)	ND(10)	-	ND(10)
PHCs F2 minus Naphthalene	ug/g	250	250	-	ND(60)	-	-	-
PHCs F3 (C16-C34)	ug/g	2500	2500	ND(50)	630	63	-	ND(50)
PHCs F3 minus PAH	ug/g	2500	2500	-	630	-	-	-
PHCs F4 (C34-C50)	ug/g	6600	6600	ND(50)	2400	197	-	ND(50)
PHCs F4 gravimetric - silica gel (GHH)	ug/g	6600	6600	-	**10200**	880	-	-
Total PHCs (C6-C50)	ug/g	NV	NV	ND(80)	3030	260	-	ND(80)
General Chemistry								
Conductivity	mS/cm	1.4	1.4	-	0.501	-	0.690	-
Cyanide, weak acid dissociable	ug/g	0.051	0.051	-	ND(0.050)	-	ND(0.050)	-
Moisture	%	NV	NV	10.7	10.0	14.0	9.23	9.84
pH, soluble (1:2)	s.u.	(5-11) 5-9	(5-11) 5-9	-	7.17	-	8.03	-
Sodium adsorption ratio (SAR)	none	12	12	-	3.78	-	**16.6**	-

Notes:

[1]	Ontario Ministry of Environment (MOE) Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition for Industrial/Commercial/Community Property Use with medium to fine textured soils, April 2011
[2]	MOE, Table 7: Generic Site Condition Standards for Shallow Soils in a Non-Potable Ground Water Condition for Industrial/Commercial/Community Property Use with medium to fine textured soils, April 2011
mBGS	metres Below Ground Surface
ug/g	micrograms per gram
mS/cm	milliSiemens per centimetre
%	percent
s.u.	standard units
NV	No value
ND(0.01)	Not detected at the associated reporting limit indicated in brackets
-	Not analyzed
RED	Concentration above MOE Table 3 Standards
	Concentration above MOE Table 7 Standards

Table 6

Summary of Soil Analytical Results
Phase Two Environmental Site Assessment
2524 Cawthra Road, Mississauga, Ontario
The Corporation of the City of Mississauga

Sample Location:				**MW1-22**				**MW2-22**
Sample Identification:				**S-12581540-220606-JB-MW1-22-0.0 TO 0.6**	**S-12581540-220606-JB-MW1-22-0.0 TO 0.6X**	**S-12581540-220606-JB-MW1-22-1.5 TO 2.1**	**S-12581540-220606-JB-MW1-22-3.0 TO 3.3**	**S-12581540-220606-JB-MW2-22-0.0 TO 0.6**
Sample Date:				**06/06/2022**	**06/06/2022**	**06/06/2022**	**06/06/2022**	**06/06/2022**
Sample Depth (mBGS):				**0.00-0.60**	**0.00-0.60**	**1.50-2.10**	**3.00-3.30**	**0.00-0.60**
Lab Certificate of Analysis:				**WT2205302**	**WT2205302**	**WT2205302**	**WT2205302**	**WT2205302**
Parameters	**Units**	**2011 MOE Standards**			***Field Duplicate***			
		Table 3 ICC[1]	**Table 7 ICC[2]**					
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	ug/g	0.11	0.11	-	-	ND(0.050)	ND(0.050)	ND(0.050)
1,1,1-Trichloroethane	ug/g	12	12	-	-	ND(0.050)	ND(0.050)	ND(0.050)
1,1,2,2-Tetrachloroethane	ug/g	0.094	0.094	-	-	ND(0.050)	ND(0.050)	ND(0.050)
1,1,2-Trichloroethane	ug/g	0.11	0.11	-	-	ND(0.050)	ND(0.050)	ND(0.050)
1,1-Dichloroethane	ug/g	21	21	-	-	ND(0.050)	ND(0.050)	ND(0.050)
1,1-Dichloroethene	ug/g	0.48	0.48	-	-	ND(0.050)	ND(0.050)	ND(0.050)
Ethylene dibromide	ug/g	0.05	0.05	-	-	ND(0.050)	ND(0.050)	ND(0.050)
1,2-Dichlorobenzene	ug/g	8.5	8.5	-	-	ND(0.050)	ND(0.050)	ND(0.050)
1,2-Dichloroethane	ug/g	0.05	0.05	-	-	ND(0.050)	ND(0.050)	ND(0.050)
1,2-Dichloropropane	ug/g	0.68	0.68	-	-	ND(0.050)	ND(0.050)	ND(0.050)
1,3-Dichlorobenzene	ug/g	12	12	-	-	ND(0.050)	ND(0.050)	ND(0.050)
1,4-Dichlorobenzene	ug/g	0.84	0.84	-	-	ND(0.050)	ND(0.050)	ND(0.050)
Methyl ethyl ketone	ug/g	88	88	-	-	ND(0.50)	ND(0.50)	ND(0.50)
Methyl isobutyl ketone	ug/g	210	210	-	-	ND(0.50)	ND(0.50)	ND(0.50)
Acetone	ug/g	28	28	-	-	ND(0.50)	ND(0.50)	ND(0.50)
Benzene	ug/g	0.4	0.4	-	-	ND(0.0050)	0.0052	ND(0.0050)
Bromodichloromethane	ug/g	18	18	-	-	ND(0.050)	ND(0.050)	ND(0.050)
Bromoform	ug/g	1.7	1.7	-	-	ND(0.050)	ND(0.050)	ND(0.050)
Bromomethane (Methyl bromide)	ug/g	0.05	0.05	-	-	ND(0.050)	ND(0.050)	ND(0.050)
Carbon tetrachloride	ug/g	1.5	1.5	-	-	ND(0.050)	ND(0.050)	ND(0.050)
Chlorobenzene	ug/g	2.7	2.7	-	-	ND(0.050)	ND(0.050)	ND(0.050)
Chloroform (Trichloromethane)	ug/g	0.18	0.18	-	-	ND(0.050)	ND(0.050)	ND(0.050)
cis-1,2-Dichloroethene	ug/g	37	37	-	-	ND(0.050)	ND(0.050)	ND(0.050)
cis-1,3-Dichloropropene	ug/g	NV	NV	-	-	ND(0.030)	ND(0.030)	ND(0.030)
cis/trans-1,3-Dichloropropene	ug/g	0.21	0.21	-	-	ND(0.05)	ND(0.05)	ND(0.05)
Dibromochloromethane	ug/g	13	13	-	-	ND(0.050)	ND(0.050)	ND(0.050)
Dichlorodifluoromethane (CFC-12)	ug/g	25	25	-	-	ND(0.050)	ND(0.050)	ND(0.050)
Ethylbenzene	ug/g	19	19	-	-	ND(0.015)	ND(0.015)	ND(0.015)
Hexane	ug/g	88	88	-	-	ND(0.050)	ND(0.050)	ND(0.050)
m&p-Xylenes	ug/g	NV	NV	-	-	ND(0.030)	ND(0.030)	ND(0.030)
Methyl tert butyl ether (MTBE)	ug/g	3.2	3.2	-	-	ND(0.040)	ND(0.040)	ND(0.040)
Methylene chloride	ug/g	2	2	-	-	ND(0.045)	ND(0.045)	ND(0.045)
o-Xylene	ug/g	NV	NV	-	-	ND(0.030)	ND(0.030)	ND(0.030)
Styrene	ug/g	43	43	-	-	ND(0.050)	ND(0.050)	ND(0.050)
Tetrachloroethene	ug/g	21	21	-	-	ND(0.050)	ND(0.050)	ND(0.050)
Toluene	ug/g	78	78	-	-	ND(0.050)	ND(0.050)	ND(0.050)
Total BTEX	ug/g	NV	NV	-	-	ND(0.1)	ND(0.1)	ND(0.1)
trans-1,2-Dichloroethene	ug/g	9.3	9.3	-	-	ND(0.050)	ND(0.050)	ND(0.050)
trans-1,3-Dichloropropene	ug/g	NV	NV	-	-	ND(0.030)	ND(0.030)	ND(0.030)
Trichloroethene	ug/g	0.61	0.61	-	-	ND(0.010)	ND(0.010)	ND(0.010)
Trichlorofluoromethane (CFC-11)	ug/g	5.8	5.8	-	-	ND(0.050)	ND(0.050)	ND(0.050)
Vinyl chloride	ug/g	0.25	0.25	-	-	ND(0.020)	ND(0.020)	ND(0.020)
Xylenes (total)	ug/g	30	30	-	-	ND(0.05)	ND(0.05)	ND(0.05)

Table 6

Summary of Soil Analytical Results
Phase Two Environmental Site Assessment
2524 Cawthra Road, Mississauga, Ontario
The Corporation of the City of Mississauga

Sample Location:				MW1-22				MW2-22
Sample Identification:				S-12581540-220606-JB-MW1-22-0.0 TO 0.6	S-12581540-220606-JB-MW1-22-0.0 TO 0.6X	S-12581540-220606-JB-MW1-22-1.5 TO 2.1	S-12581540-220606-JB-MW1-22-3.0 TO 3.3	S-12581540-220606-JB-MW2-22-0.0 TO 0.6
Sample Date:				06/06/2022	06/06/2022	06/06/2022	06/06/2022	06/06/2022
Sample Depth (mBGS):				0.00-0.60	0.00-0.60	1.50-2.10	3.00-3.30	0.00-0.60
Lab Certificate of Analysis:				WT2205302	WT2205302	WT2205302	WT2205302	WT2205302
Parameters	**Units**	**2011 MOE Standards**			***Field Duplicate***			
		Table 3 ICC[1]	**Table 7 ICC[2]**					
Semi-Volatile Organic Compounds								
1+2-Methylnaphthalene	ug/g	85	85	-	-	ND(0.05)	-	ND(0.05)
1-Methylnaphthalene	ug/g	85	85	-	-	ND(0.030)	-	ND(0.030)
2-Methylnaphthalene	ug/g	85	85	-	-	ND(0.030)	-	ND(0.030)
Acenaphthene	ug/g	96	96	-	-	ND(0.050)	-	ND(0.050)
Acenaphthylene	ug/g	0.17	0.17	-	-	ND(0.050)	-	ND(0.050)
Anthracene	ug/g	0.74	0.74	-	-	ND(0.050)	-	ND(0.050)
Benzo(a)anthracene	ug/g	0.96	0.96	-	-	ND(0.050)	-	0.095
Benzo(a)pyrene	ug/g	0.3	0.3	-	-	ND(0.050)	-	0.137
Benzo(b/j)fluoranthene	ug/g	0.96	0.96	-	-	ND(0.050)	-	0.156
Benzo(g,h,i)perylene	ug/g	9.6	9.6	-	-	ND(0.050)	-	0.105
Benzo(k)fluoranthene	ug/g	0.96	0.96	-	-	ND(0.050)	-	0.066
Chrysene	ug/g	9.6	9.6	-	-	ND(0.050)	-	0.103
Dibenz(a,h)anthracene	ug/g	0.1	0.1	-	-	ND(0.050)	-	ND(0.050)
Fluoranthene	ug/g	9.6	9.6	-	-	ND(0.050)	-	0.180
Fluorene	ug/g	69	69	-	-	ND(0.050)	-	ND(0.050)
Indeno(1,2,3-cd)pyrene	ug/g	0.95	0.95	-	-	ND(0.050)	-	0.105
Naphthalene	ug/g	28	28	-	-	ND(0.010)	-	0.012
Phenanthrene	ug/g	16	16	-	-	ND(0.050)	-	0.077
Pyrene	ug/g	96	96	-	-	ND(0.050)	-	0.170
Metals								
Antimony	ug/g	50	50	1.26	1.58	-	-	0.74
Arsenic	ug/g	18	18	3.87	4.78	-	-	5.49
Barium	ug/g	670	670	50.2	60.3	-	-	43.1
Beryllium	ug/g	10	10	0.17	0.22	-	-	0.27
Boron	ug/g	120	120	6.2	8.0	-	-	ND(5.0)
Boron (hot water soluble)	ug/g	2	2	0.36	0.54	-	-	0.24
Cadmium	ug/g	1.9	1.9	0.266	0.288	-	-	0.504
Calcium (soluble)	mg/L	NV	NV	34.0	36.1	-	-	17.4
Chromium	ug/g	160	160	71.8	82.1	-	-	16.9
Chromium VI (hexavalent)	ug/g	10	10	1.58	1.74	-	-	1.23
Cobalt	ug/g	100	100	3.84	4.62	-	-	4.33
Copper	ug/g	300	300	44.5	48.5	-	-	27.4
Lead	ug/g	120	120	17.8	19.1	-	-	59.9
Magnesium (soluble)	mg/L	NV	NV	1.08	1.29	-	-	1.12
Mercury	ug/g	20	20	0.0072	0.0082	-	-	0.0382
Molybdenum	ug/g	40	40	3.40	3.91	-	-	1.08
Nickel	ug/g	340	340	12.9	15.6	-	-	11.1
Selenium	ug/g	5.5	5.5	ND(0.20)	ND(0.20)	-	-	ND(0.20)
Silver	ug/g	50	50	ND(0.10)	ND(0.10)	-	-	ND(0.10)
Sodium (soluble)	mg/L	NV	NV	14.4	14.9	-	-	5.80
Thallium	ug/g	3.3	3.3	0.211	0.288	-	-	0.058
Uranium	ug/g	33	33	0.297	0.358	-	-	0.434
Vanadium	ug/g	86	86	47.8	61.1	-	-	19.5
Zinc	ug/g	340	340	133	134	-	-	84.5

Table 6

Summary of Soil Analytical Results
Phase Two Environmental Site Assessment
2524 Cawthra Road, Mississauga, Ontario
The Corporation of the City of Mississauga

			Sample Location:	**MW1-22**				**MW2-22**
			Sample Identification:	**S-12581540-220606-JB-MW1-22-0.0 TO 0.6**	**S-12581540-220606-JB-MW1-22-0.0 TO 0.6X**	**S-12581540-220606-JB-MW1-22-1.5 TO 2.1**	**S-12581540-220606-JB-MW1-22-3.0 TO 3.3**	**S-12581540-220606-JB-MW2-22-0.0 TO 0.6**
			Sample Date:	**06/06/2022**	**06/06/2022**	**06/06/2022**	**06/06/2022**	**06/06/2022**
			Sample Depth (mBGS):	**0.00-0.60**	**0.00-0.60**	**1.50-2.10**	**3.00-3.30**	**0.00-0.60**
			Lab Certificate of Analysis:	**WT2205302**	**WT2205302**	**WT2205302**	**WT2205302**	**WT2205302**
Parameters	**Units**	**2011 MOE Standards**			***Field Duplicate***			
		Table 3 ICC[1]	**Table 7 ICC[2]**					
Polychlorinated Biphenyls (PCBs)								
Aroclor-1016 (PCB-1016)	ug/g	NV	NV	ND(0.100)	-	-	-	-
Aroclor-1221 (PCB-1221)	ug/g	NV	NV	ND(0.100)	-	-	-	-
Aroclor-1232 (PCB-1232)	ug/g	NV	NV	ND(0.100)	-	-	-	-
Aroclor-1242 (PCB-1242)	ug/g	NV	NV	ND(0.100)	-	-	-	-
Aroclor-1248 (PCB-1248)	ug/g	NV	NV	ND(0.100)	-	-	-	-
Aroclor-1254 (PCB-1254)	ug/g	NV	NV	ND(0.100)	-	-	-	-
Aroclor-1260 (PCB-1260)	ug/g	NV	NV	ND(0.100)	-	-	-	-
Aroclor-1262 (PCB-1262)	ug/g	NV	NV	ND(0.100)	-	-	-	-
Aroclor-1268 (PCB-1268)	ug/g	NV	NV	ND(0.100)	-	-	-	-
Total PCBs	ug/g	1.1	1.1	ND(0.300)	-	-	-	-
Petroleum Hydrocarbons (PHCs)								
PHCs F1 (C6-C10)	ug/g	65	65	-	-	ND(5.0)	ND(5.0)	ND(5.0)
PHCs F1 minus BTEX	ug/g	65	65	-	-	ND(5)	ND(5)	ND(5)
PHCs F2 (C10-C16)	ug/g	250	250	-	-	ND(10)	ND(10)	ND(10)
PHCs F2 minus Naphthalene	ug/g	250	250	-	-	ND(25)	-	ND(25)
PHCs F3 (C16-C34)	ug/g	2500	2500	-	-	ND(50)	ND(50)	571
PHCs F3 minus PAH	ug/g	2500	2500	-	-	ND(50)	-	570
PHCs F4 (C34-C50)	ug/g	6600	6600	-	-	ND(50)	ND(50)	250
PHCs F4 gravimetric - silica gel (GHH)	ug/g	6600	6600	-	-	-	-	1170
Total PHCs (C6-C50)	ug/g	NV	NV	-	-	ND(80)	ND(80)	821
General Chemistry								
Conductivity	mS/cm	1.4	1.4	0.266	0.268	-	-	0.138
Cyanide, weak acid dissociable	ug/g	0.051	0.051	ND(0.050)	ND(0.050)	-	-	ND(0.050)
Moisture	%	NV	NV	6.84	7.00	15.0	7.07	11.9
pH, soluble (1:2)	s.u.	(5-11) 5-9	(5-11) 5-9	**10.4**	7.65	-	-	**11.1**
Sodium adsorption ratio (SAR)	none	12	12	0.66	0.66	-	-	0.36

Notes:

(1)	Ontario Ministry of Environment (MOE) Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition for Industrial/Commercial/Community Property Use with medium to fine textured soils, April 2011
(2)	MOE, Table 7: Generic Site Condition Standards for Shallow Soils in a Non-Potable Ground Water Condition for Industrial/Commercial/Community Property Use with medium to fine textured soils, April 2011
mBGS	metres Below Ground Surface
ug/g	micrograms per gram
mS/cm	milliSiemens per centimetre
%	percent
s.u.	standard units
NV	No value
ND(0.01)	Not detected at the associated reporting limit indicated in brackets
-	Not analyzed
RED	Concentration above MOE Table 3 Standards
	Concentration above MOE Table 7 Standards

Table 6

Summary of Soil Analytical Results
Phase Two Environmental Site Assessment
2524 Cawthra Road, Mississauga, Ontario
The Corporation of the City of Mississauga

			Sample Location:	**MW2-22**	**MW3-22**			
			Sample Identification:	**S-12581540-220606-JB-MW2-22-0.7 TO 1.3**	**S-12581540-220606-JB-MW3-22-0.0 TO 0.6**	**S-12581540-220606-JB-MW3-22-0.0 TO 0.6X**	**S-12581540-220606-JB-MW3-22-0.7 TO 1.3**	**S-12581540-220606-JB-MW2-22-2.3 TO 2.5**
			Sample Date:	**06/06/2022**	**06/06/2022**	**06/06/2022**	**06/06/2022**	**06/06/2022**
			Sample Depth (mBGS):	**0.70-1.30**	**0.00-0.60**	**0.00-0.60**	**0.70-1.30**	**2.30-2.50**
			Lab Certificate of Analysis:	**WT2205302**	**WT2205302**	**WT2205302**	**WT2205302**	**WT2205302**
Parameters	**Units**	**2011 MOE Standards**				***Field Duplicate***		
		Table 3 ICC[1]	**Table 7 ICC[2]**					
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	ug/g	0.11	0.11	-	-	-	ND(0.050)	ND(0.050)
1,1,1-Trichloroethane	ug/g	12	12	-	-	-	ND(0.050)	ND(0.050)
1,1,2,2-Tetrachloroethane	ug/g	0.094	0.094	-	-	-	ND(0.050)	ND(0.050)
1,1,2-Trichloroethane	ug/g	0.11	0.11	-	-	-	ND(0.050)	ND(0.050)
1,1-Dichloroethane	ug/g	21	21	-	-	-	ND(0.050)	ND(0.050)
1,1-Dichloroethene	ug/g	0.48	0.48	-	-	-	ND(0.050)	ND(0.050)
Ethylene dibromide	ug/g	0.05	0.05	-	-	-	ND(0.050)	ND(0.050)
1,2-Dichlorobenzene	ug/g	8.5	8.5	-	-	-	ND(0.050)	ND(0.050)
1,2-Dichloroethane	ug/g	0.05	0.05	-	-	-	ND(0.050)	ND(0.050)
1,2-Dichloropropane	ug/g	0.68	0.68	-	-	-	ND(0.050)	ND(0.050)
1,3-Dichlorobenzene	ug/g	12	12	-	-	-	ND(0.050)	ND(0.050)
1,4-Dichlorobenzene	ug/g	0.84	0.84	-	-	-	ND(0.050)	ND(0.050)
Methyl ethyl ketone	ug/g	88	88	-	-	-	ND(0.50)	ND(0.50)
Methyl isobutyl ketone	ug/g	210	210	-	-	-	ND(0.50)	ND(0.50)
Acetone	ug/g	28	28	-	-	-	ND(0.50)	ND(0.50)
Benzene	ug/g	0.4	0.4	-	-	-	ND(0.0050)	ND(0.0050)
Bromodichloromethane	ug/g	18	18	-	-	-	ND(0.050)	ND(0.050)
Bromoform	ug/g	1.7	1.7	-	-	-	ND(0.050)	ND(0.050)
Bromomethane (Methyl bromide)	ug/g	0.05	0.05	-	-	-	ND(0.050)	ND(0.050)
Carbon tetrachloride	ug/g	1.5	1.5	-	-	-	ND(0.050)	ND(0.050)
Chlorobenzene	ug/g	2.7	2.7	-	-	-	ND(0.050)	ND(0.050)
Chloroform (Trichloromethane)	ug/g	0.18	0.18	-	-	-	ND(0.050)	ND(0.050)
cis-1,2-Dichloroethene	ug/g	37	37	-	-	-	ND(0.050)	ND(0.050)
cis-1,3-Dichloropropene	ug/g	NV	NV	-	-	-	ND(0.030)	ND(0.030)
cis/trans-1,3-Dichloropropene	ug/g	0.21	0.21	-	-	-	ND(0.05)	ND(0.05)
Dibromochloromethane	ug/g	13	13	-	-	-	ND(0.050)	ND(0.050)
Dichlorodifluoromethane (CFC-12)	ug/g	25	25	-	-	-	ND(0.050)	ND(0.050)
Ethylbenzene	ug/g	19	19	-	-	-	ND(0.015)	ND(0.015)
Hexane	ug/g	88	88	-	-	-	ND(0.050)	ND(0.050)
m&p-Xylenes	ug/g	NV	NV	-	-	-	ND(0.030)	ND(0.030)
Methyl tert butyl ether (MTBE)	ug/g	3.2	3.2	-	-	-	ND(0.040)	ND(0.040)
Methylene chloride	ug/g	2	2	-	-	-	ND(0.045)	ND(0.045)
o-Xylene	ug/g	NV	NV	-	-	-	ND(0.030)	ND(0.030)
Styrene	ug/g	43	43	-	-	-	ND(0.050)	ND(0.050)
Tetrachloroethene	ug/g	21	21	-	-	-	ND(0.050)	ND(0.050)
Toluene	ug/g	78	78	-	-	-	ND(0.050)	ND(0.050)
Total BTEX	ug/g	NV	NV	-	-	-	ND(0.1)	ND(0.1)
trans-1,2-Dichloroethene	ug/g	9.3	9.3	-	-	-	ND(0.050)	ND(0.050)
trans-1,3-Dichloropropene	ug/g	NV	NV	-	-	-	ND(0.030)	ND(0.030)
Trichloroethene	ug/g	0.61	0.61	-	-	-	ND(0.010)	ND(0.010)
Trichlorofluoromethane (CFC-11)	ug/g	5.8	5.8	-	-	-	ND(0.050)	ND(0.050)
Vinyl chloride	ug/g	0.25	0.25	-	-	-	ND(0.020)	ND(0.020)
Xylenes (total)	ug/g	30	30	-	-	-	ND(0.05)	ND(0.05)

Table 6

Summary of Soil Analytical Results
Phase Two Environmental Site Assessment
2524 Cawthra Road, Mississauga, Ontario
The Corporation of the City of Mississauga

Sample Location:				**MW2-22**	**MW3-22**			
Sample Identification:				**S-12581540-220606-JB-MW2-22-0.7 TO 1.3**	**S-12581540-220606-JB-MW3-22-0.0 TO 0.6**	**S-12581540-220606-JB-MW3-22-0.0 TO 0.6X**	**S-12581540-220606-JB-MW3-22-0.7 TO 1.3**	**S-12581540-220606-JB-MW2-22-2.3 TO 2.5**
Sample Date:				**06/06/2022**	**06/06/2022**	**06/06/2022**	**06/06/2022**	**06/06/2022**
Sample Depth (mBGS):				**0.70-1.30**	**0.00-0.60**	**0.00-0.60**	**0.70-1.30**	**2.30-2.50**
Lab Certificate of Analysis:				**WT2205302**	**WT2205302**	**WT2205302**	**WT2205302**	**WT2205302**
Parameters	**Units**	**2011 MOE Standards**				***Field Duplicate***		
		Table 3 ICC[1]	**Table 7 ICC[2]**					
Semi-Volatile Organic Compounds								
1+2-Methylnaphthalene	ug/g	85	85	-	-	-	ND(0.05)	-
1-Methylnaphthalene	ug/g	85	85	-	-	-	ND(0.030)	-
2-Methylnaphthalene	ug/g	85	85	-	-	-	ND(0.030)	-
Acenaphthene	ug/g	96	96	-	-	-	ND(0.050)	-
Acenaphthylene	ug/g	0.17	0.17	-	-	-	ND(0.050)	-
Anthracene	ug/g	0.74	0.74	-	-	-	ND(0.050)	-
Benzo(a)anthracene	ug/g	0.96	0.96	-	-	-	ND(0.050)	-
Benzo(a)pyrene	ug/g	0.3	0.3	-	-	-	ND(0.050)	-
Benzo(b/j)fluoranthene	ug/g	0.96	0.96	-	-	-	ND(0.050)	-
Benzo(g,h,i)perylene	ug/g	9.6	9.6	-	-	-	ND(0.050)	-
Benzo(k)fluoranthene	ug/g	0.96	0.96	-	-	-	ND(0.050)	-
Chrysene	ug/g	9.6	9.6	-	-	-	ND(0.050)	-
Dibenz(a,h)anthracene	ug/g	0.1	0.1	-	-	-	ND(0.050)	-
Fluoranthene	ug/g	9.6	9.6	-	-	-	0.054	-
Fluorene	ug/g	69	69	-	-	-	ND(0.050)	-
Indeno(1,2,3-cd)pyrene	ug/g	0.95	0.95	-	-	-	ND(0.050)	-
Naphthalene	ug/g	28	28	-	-	-	ND(0.010)	-
Phenanthrene	ug/g	16	16	-	-	-	ND(0.050)	-
Pyrene	ug/g	96	96	-	-	-	ND(0.050)	-
Metals								
Antimony	ug/g	50	50	-	0.39	-	-	-
Arsenic	ug/g	18	18	-	4.50	-	-	-
Barium	ug/g	670	670	-	89.6	-	-	-
Beryllium	ug/g	10	10	-	0.29	-	-	-
Boron	ug/g	120	120	-	14.8	-	-	-
Boron (hot water soluble)	ug/g	2	2	-	0.84	-	-	-
Cadmium	ug/g	1.9	1.9	-	0.429	-	-	-
Calcium (soluble)	mg/L	NV	NV	-	79.1	-	-	-
Chromium	ug/g	160	160	-	85.0	-	-	-
Chromium VI (hexavalent)	ug/g	10	10	-	2.68	-	-	-
Cobalt	ug/g	100	100	-	4.07	-	-	-
Copper	ug/g	300	300	-	27.2	-	-	-
Lead	ug/g	120	120	-	26.5	-	-	-
Magnesium (soluble)	mg/L	NV	NV	-	ND(0.50)	-	-	-
Mercury	ug/g	20	20	-	0.0149	-	-	-
Molybdenum	ug/g	40	40	-	1.87	-	-	-
Nickel	ug/g	340	340	-	12.2	-	-	-
Selenium	ug/g	5.5	5.5	-	ND(0.20)	-	-	-
Silver	ug/g	50	50	-	ND(0.10)	-	-	-
Sodium (soluble)	mg/L	NV	NV	-	87.7	-	-	-
Thallium	ug/g	3.3	3.3	-	0.069	-	-	-
Uranium	ug/g	33	33	-	0.484	-	-	-
Vanadium	ug/g	86	86	-	58.1	-	-	-
Zinc	ug/g	340	340	-	114	-	-	-

Table 6

Summary of Soil Analytical Results
Phase Two Environmental Site Assessment
2524 Cawthra Road, Mississauga, Ontario
The Corporation of the City of Mississauga

			Sample Location:	**MW2-22**	**MW3-22**			
			Sample Identification:	**S-12581540-220606-JB-MW2-22-0.7 TO 1.3**	**S-12581540-220606-JB-MW3-22-0.0 TO 0.6**	**S-12581540-220606-JB-MW3-22-0.0 TO 0.6X**	**S-12581540-220606-JB-MW3-22-0.7 TO 1.3**	**S-12581540-220606-JB-MW2-22-2.3 TO 2.5**
			Sample Date:	**06/06/2022**	**06/06/2022**	**06/06/2022**	**06/06/2022**	**06/06/2022**
			Sample Depth (mBGS):	**0.70-1.30**	**0.00-0.60**	**0.00-0.60**	**0.70-1.30**	**2.30-2.50**
			Lab Certificate of Analysis:	**WT2205302**	**WT2205302**	**WT2205302**	**WT2205302**	**WT2205302**
Parameters	**Units**	**2011 MOE Standards**				***Field Duplicate***		
		Table 3 ICC[1]	**Table 7 ICC[2]**					
Polychlorinated Biphenyls (PCBs)								
Aroclor-1016 (PCB-1016)	ug/g	NV	NV	ND(0.010)	ND(0.100)	ND(0.100)	-	-
Aroclor-1221 (PCB-1221)	ug/g	NV	NV	ND(0.010)	ND(0.100)	ND(0.100)	-	-
Aroclor-1232 (PCB-1232)	ug/g	NV	NV	ND(0.010)	ND(0.100)	ND(0.100)	-	-
Aroclor-1242 (PCB-1242)	ug/g	NV	NV	ND(0.010)	ND(0.100)	ND(0.100)	-	-
Aroclor-1248 (PCB-1248)	ug/g	NV	NV	ND(0.010)	ND(0.100)	ND(0.100)	-	-
Aroclor-1254 (PCB-1254)	ug/g	NV	NV	ND(0.010)	ND(0.100)	ND(0.100)	-	-
Aroclor-1260 (PCB-1260)	ug/g	NV	NV	ND(0.010)	ND(0.100)	ND(0.100)	-	-
Aroclor-1262 (PCB-1262)	ug/g	NV	NV	ND(0.010)	ND(0.100)	ND(0.100)	-	-
Aroclor-1268 (PCB-1268)	ug/g	NV	NV	ND(0.010)	ND(0.100)	ND(0.100)	-	-
Total PCBs	ug/g	1.1	1.1	ND(0.030)	ND(0.300)	ND(0.300)	-	-
Petroleum Hydrocarbons (PHCs)								
PHCs F1 (C6-C10)	ug/g	65	65	-	-	-	ND(5.0)	ND(5.0)
PHCs F1 minus BTEX	ug/g	65	65	-	-	-	ND(5)	ND(5)
PHCs F2 (C10-C16)	ug/g	250	250	-	-	-	ND(10)	ND(10)
PHCs F2 minus Naphthalene	ug/g	250	250	-	-	-	ND(25)	-
PHCs F3 (C16-C34)	ug/g	2500	2500	-	-	-	157	ND(50)
PHCs F3 minus PAH	ug/g	2500	2500	-	-	-	157	-
PHCs F4 (C34-C50)	ug/g	6600	6600	-	-	-	340	ND(50)
PHCs F4 gravimetric - silica gel (GHH)	ug/g	6600	6600	-	-	-	920	-
Total PHCs (C6-C50)	ug/g	NV	NV	-	-	-	497	ND(80)
General Chemistry								
Conductivity	mS/cm	1.4	1.4	-	0.817	-	-	-
Cyanide, weak acid dissociable	ug/g	0.051	0.051	-	ND(0.050)	-	-	-
Moisture	%	NV	NV	7.02	8.71	6.46	18.8	8.84
pH, soluble (1:2)	s.u.	(5-11) 5-9	(5-11) 5-9	-	7.82	-	-	-
Sodium adsorption ratio (SAR)	none	12	12	-	2.72	-	-	-

Notes:

[1]	Ontario Ministry of Environment (MOE) Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition for Industrial/Commercial/Community Property Use with medium to fine textured soils, April 2011
[2]	MOE, Table 7: Generic Site Condition Standards for Shallow Soils in a Non-Potable Ground Water Condition for Industrial/Commercial/Community Property Use with medium to fine textured soils, April 2011
mBGS	metres Below Ground Surface
ug/g	micrograms per gram
mS/cm	milliSiemens per centimetre
%	percent
s.u.	standard units
NV	No value
ND(0.01)	Not detected at the associated reporting limit indicated in brackets
-	Not analyzed
RED	Concentration above MOE Table 3 Standards
	Concentration above MOE Table 7 Standards

Table 6

Summary of Soil Analytical Results
Phase Two Environmental Site Assessment
2524 Cawthra Road, Mississauga, Ontario
The Corporation of the City of Mississauga

Sample Location:				**MW3-22**		**MW4-22**	
Sample Identification:				**S-12581540-220606-JB-MW3-22-2.3 TO 2.7**	**S-12581540-220606-JB-MW3-22-2.3 TO 2.7X**	**S-12581540-220610-JB-MW4-22-0.05-0.6**	**S-12581540-220610-JB-MW4-22-1.5-2.1**
Sample Date:				**06/06/2022**	**06/06/2022**	**06/10/2022**	**06/10/2022**
Sample Depth (mBGS):				**2.30-2.70**	**2.30-2.70**	**0.05-0.60**	**1.50-2.10**
Lab Certificate of Analysis:				**WT2205302**	**WT2205302**	**WT2205480**	**WT2205480**
Parameters	**Units**	**2011 MOE Standards**			***Field Duplicate***		
		Table 3 ICC[1]	**Table 7 ICC[2]**				
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	ug/g	0.11	0.11	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
1,1,1-Trichloroethane	ug/g	12	12	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
1,1,2,2-Tetrachloroethane	ug/g	0.094	0.094	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
1,1,2-Trichloroethane	ug/g	0.11	0.11	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
1,1-Dichloroethane	ug/g	21	21	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
1,1-Dichloroethene	ug/g	0.48	0.48	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Ethylene dibromide	ug/g	0.05	0.05	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
1,2-Dichlorobenzene	ug/g	8.5	8.5	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
1,2-Dichloroethane	ug/g	0.05	0.05	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
1,2-Dichloropropane	ug/g	0.68	0.68	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
1,3-Dichlorobenzene	ug/g	12	12	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
1,4-Dichlorobenzene	ug/g	0.84	0.84	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Methyl ethyl ketone	ug/g	88	88	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)
Methyl isobutyl ketone	ug/g	210	210	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)
Acetone	ug/g	28	28	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)
Benzene	ug/g	0.4	0.4	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Bromodichloromethane	ug/g	18	18	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Bromoform	ug/g	1.7	1.7	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Bromomethane (Methyl bromide)	ug/g	0.05	0.05	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Carbon tetrachloride	ug/g	1.5	1.5	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Chlorobenzene	ug/g	2.7	2.7	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Chloroform (Trichloromethane)	ug/g	0.18	0.18	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
cis-1,2-Dichloroethene	ug/g	37	37	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
cis-1,3-Dichloropropene	ug/g	NV	NV	ND(0.030)	ND(0.030)	ND(0.030)	ND(0.030)
cis/trans-1,3-Dichloropropene	ug/g	0.21	0.21	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
Dibromochloromethane	ug/g	13	13	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Dichlorodifluoromethane (CFC-12)	ug/g	25	25	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Ethylbenzene	ug/g	19	19	ND(0.015)	ND(0.015)	ND(0.015)	ND(0.015)
Hexane	ug/g	88	88	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
m&p-Xylenes	ug/g	NV	NV	ND(0.030)	ND(0.030)	ND(0.030)	ND(0.030)
Methyl tert butyl ether (MTBE)	ug/g	3.2	3.2	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)
Methylene chloride	ug/g	2	2	ND(0.045)	ND(0.045)	ND(0.045)	ND(0.045)
o-Xylene	ug/g	NV	NV	ND(0.030)	ND(0.030)	ND(0.030)	ND(0.030)
Styrene	ug/g	43	43	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Tetrachloroethene	ug/g	21	21	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Toluene	ug/g	78	78	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Total BTEX	ug/g	NV	NV	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)
trans-1,2-Dichloroethene	ug/g	9.3	9.3	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
trans-1,3-Dichloropropene	ug/g	NV	NV	ND(0.030)	ND(0.030)	ND(0.030)	ND(0.030)
Trichloroethene	ug/g	0.61	0.61	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Trichlorofluoromethane (CFC-11)	ug/g	5.8	5.8	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Vinyl chloride	ug/g	0.25	0.25	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
Xylenes (total)	ug/g	30	30	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)

Table 6

Summary of Soil Analytical Results
Phase Two Environmental Site Assessment
2524 Cawthra Road, Mississauga, Ontario
The Corporation of the City of Mississauga

Sample Location:				**MW3-22**		**MW4-22**	
Sample Identification:				**S-12581540-220606-JB-MW3-22-2.3 TO 2.7**	**S-12581540-220606-JB-MW3-22-2.3 TO 2.7X**	**S-12581540-220610-JB-MW4-22-0.05-0.6**	**S-12581540-220610-JB-MW4-22-1.5-2.1**
Sample Date:				**06/06/2022**	**06/06/2022**	**06/10/2022**	**06/10/2022**
Sample Depth (mBGS):				**2.30-2.70**	**2.30-2.70**	**0.05-0.60**	**1.50-2.10**
Lab Certificate of Analysis:				**WT2205302**	**WT2205302**	**WT2205480**	**WT2205480**
Parameters	**Units**	**2011 MOE Standards**			***Field Duplicate***		
		Table 3 ICC[1]	**Table 7 ICC[2]**				
Semi-Volatile Organic Compounds							
1+2-Methylnaphthalene	ug/g	85	85	-	-	ND(0.05)	-
1-Methylnaphthalene	ug/g	85	85	-	-	ND(0.030)	-
2-Methylnaphthalene	ug/g	85	85	-	-	ND(0.030)	-
Acenaphthene	ug/g	96	96	-	-	ND(0.050)	-
Acenaphthylene	ug/g	0.17	0.17	-	-	ND(0.050)	-
Anthracene	ug/g	0.74	0.74	-	-	ND(0.050)	-
Benzo(a)anthracene	ug/g	0.96	0.96	-	-	ND(0.050)	-
Benzo(a)pyrene	ug/g	0.3	0.3	-	-	ND(0.050)	-
Benzo(b/j)fluoranthene	ug/g	0.96	0.96	-	-	ND(0.050)	-
Benzo(g,h,i)perylene	ug/g	9.6	9.6	-	-	ND(0.050)	-
Benzo(k)fluoranthene	ug/g	0.96	0.96	-	-	ND(0.050)	-
Chrysene	ug/g	9.6	9.6	-	-	ND(0.050)	-
Dibenz(a,h)anthracene	ug/g	0.1	0.1	-	-	ND(0.050)	-
Fluoranthene	ug/g	9.6	9.6	-	-	ND(0.050)	-
Fluorene	ug/g	69	69	-	-	ND(0.050)	-
Indeno(1,2,3-cd)pyrene	ug/g	0.95	0.95	-	-	ND(0.050)	-
Naphthalene	ug/g	28	28	-	-	ND(0.010)	-
Phenanthrene	ug/g	16	16	-	-	ND(0.050)	-
Pyrene	ug/g	96	96	-	-	ND(0.050)	-
Metals							
Antimony	ug/g	50	50	-	-	0.28	-
Arsenic	ug/g	18	18	-	-	7.95	-
Barium	ug/g	670	670	-	-	83.0	-
Beryllium	ug/g	10	10	-	-	0.32	-
Boron	ug/g	120	120	-	-	7.9	-
Boron (hot water soluble)	ug/g	2	2	-	-	0.18	-
Cadmium	ug/g	1.9	1.9	-	-	0.455	-
Calcium (soluble)	mg/L	NV	NV	-	-	19.3	-
Chromium	ug/g	160	160	-	-	14.4	-
Chromium VI (hexavalent)	ug/g	10	10	-	-	ND(0.66)	-
Cobalt	ug/g	100	100	-	-	6.10	-
Copper	ug/g	300	300	-	-	30.2	-
Lead	ug/g	120	120	-	-	21.9	-
Magnesium (soluble)	mg/L	NV	NV	-	-	2.05	-
Mercury	ug/g	20	20	-	-	0.0134	-
Molybdenum	ug/g	40	40	-	-	1.83	-
Nickel	ug/g	340	340	-	-	13.0	-
Selenium	ug/g	5.5	5.5	-	-	ND(0.20)	-
Silver	ug/g	50	50	-	-	ND(0.10)	-
Sodium (soluble)	mg/L	NV	NV	-	-	6.02	-
Thallium	ug/g	3.3	3.3	-	-	0.094	-
Uranium	ug/g	33	33	-	-	0.389	-
Vanadium	ug/g	86	86	-	-	19.2	-
Zinc	ug/g	340	340	-	-	162	-

Table 6

Summary of Soil Analytical Results
Phase Two Environmental Site Assessment
2524 Cawthra Road, Mississauga, Ontario
The Corporation of the City of Mississauga

			Sample Location:	**MW3-22**		**MW4-22**	
			Sample Identification:	**S-12581540-220606-JB-MW3-22-2.3 TO 2.7**	**S-12581540-220606-JB-MW3-22-2.3 TO 2.7X**	**S-12581540-220610-JB-MW4-22-0.05-0.6**	**S-12581540-220610-JB-MW4-22-1.5-2.1**
			Sample Date:	**06/06/2022**	**06/06/2022**	**06/10/2022**	**06/10/2022**
			Sample Depth (mBGS):	**2.30-2.70**	**2.30-2.70**	**0.05-0.60**	**1.50-2.10**
			Lab Certificate of Analysis:	**WT2205302**	**WT2205302**	**WT2205480**	**WT2205480**
Parameters	**Units**	**2011 MOE Standards**			***Field Duplicate***		
		Table 3 ICC[1]	**Table 7 ICC[2]**				
Polychlorinated Biphenyls (PCBs)							
Aroclor-1016 (PCB-1016)	ug/g	NV	NV	-	-	ND(0.010)	-
Aroclor-1221 (PCB-1221)	ug/g	NV	NV	-	-	ND(0.010)	-
Aroclor-1232 (PCB-1232)	ug/g	NV	NV	-	-	ND(0.010)	-
Aroclor-1242 (PCB-1242)	ug/g	NV	NV	-	-	ND(0.010)	-
Aroclor-1248 (PCB-1248)	ug/g	NV	NV	-	-	ND(0.010)	-
Aroclor-1254 (PCB-1254)	ug/g	NV	NV	-	-	ND(0.010)	-
Aroclor-1260 (PCB-1260)	ug/g	NV	NV	-	-	0.064	-
Aroclor-1262 (PCB-1262)	ug/g	NV	NV	-	-	ND(0.010)	-
Aroclor-1268 (PCB-1268)	ug/g	NV	NV	-	-	ND(0.010)	-
Total PCBs	ug/g	1.1	1.1	-	-	0.064	-
Petroleum Hydrocarbons (PHCs)							
PHCs F1 (C6-C10)	ug/g	65	65	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
PHCs F1 minus BTEX	ug/g	65	65	ND(5)	ND(5)	ND(5)	ND(5)
PHCs F2 (C10-C16)	ug/g	250	250	ND(10)	ND(10)	ND(10)	ND(10)
PHCs F2 minus Naphthalene	ug/g	250	250	-	-	ND(25)	-
PHCs F3 (C16-C34)	ug/g	2500	2500	ND(50)	ND(50)	ND(50)	ND(50)
PHCs F3 minus PAH	ug/g	2500	2500	-	-	ND(50)	-
PHCs F4 (C34-C50)	ug/g	6600	6600	ND(50)	ND(50)	ND(50)	ND(50)
PHCs F4 gravimetric - silica gel (GHH)	ug/g	6600	6600	-	-	-	-
Total PHCs (C6-C50)	ug/g	NV	NV	ND(80)	ND(80)	ND(80)	ND(80)
General Chemistry							
Conductivity	mS/cm	1.4	1.4	-	-	0.175	-
Cyanide, weak acid dissociable	ug/g	0.051	0.051	-	-	ND(0.050)	-
Moisture	%	NV	NV	17.3	19.8	4.99	9.35
pH, soluble (1:2)	s.u.	(5-11) 5-9	(5-11) 5-9	-	-	7.78	-
Sodium adsorption ratio (SAR)	none	12	12	-	-	0.35	-

Notes:

(1)	Ontario Ministry of Environment (MOE) Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition for Industrial/Commercial/Community Property Use with medium to fine textured soils, April 2011
(2)	MOE, Table 7: Generic Site Condition Standards for Shallow Soils in a Non-Potable Ground Water Condition for Industrial/Commercial/Community Property Use with medium to fine textured soils, April 2011
mBGS	metres Below Ground Surface
ug/g	micrograms per gram
mS/cm	milliSiemens per centimetre
%	percent
s.u.	standard units
NV	No value
ND(0.01)	Not detected at the associated reporting limit indicated in brackets
-	Not analyzed
RED	Concentration above MOE Table 3 Standards
	Concentration above MOE Table 7 Standards

Table 6

Summary of Soil Analytical Results
Phase Two Environmental Site Assessment
2524 Cawthra Road, Mississauga, Ontario
The Corporation of the City of Mississauga

Sample Location:				Trip Blank		
Sample Identification:				S-12581540-220606-JB-TRIP BLANK	S-12581540-220610-JB-TRIP BLANK	S-12581540-220614-JB-TRIP BLANK
Sample Date:				06/06/2022	06/10/2022	06/14/2022
Sample Depth (mBGS):				-	-	-
Lab Certificate of Analysis:				WT2205302	WT2205480	WT2205639
Parameters	**Units**	**2011 MOE Standards**		*Trip Blank*	*Trip Blank*	*Trip Blank*
		Table 3 ICC[1]	**Table 7 ICC[2]**			
Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane	ug/g	0.11	0.11	ND(0.050)	ND(0.050)	ND(0.050)
1,1,1-Trichloroethane	ug/g	12	12	ND(0.050)	ND(0.050)	ND(0.050)
1,1,2,2-Tetrachloroethane	ug/g	0.094	0.094	ND(0.050)	ND(0.050)	ND(0.050)
1,1,2-Trichloroethane	ug/g	0.11	0.11	ND(0.050)	ND(0.050)	ND(0.050)
1,1-Dichloroethane	ug/g	21	21	ND(0.050)	ND(0.050)	ND(0.050)
1,1-Dichloroethene	ug/g	0.48	0.48	ND(0.050)	ND(0.050)	ND(0.050)
Ethylene dibromide	ug/g	0.05	0.05	ND(0.050)	ND(0.050)	ND(0.050)
1,2-Dichlorobenzene	ug/g	8.5	8.5	ND(0.050)	ND(0.050)	ND(0.050)
1,2-Dichloroethane	ug/g	0.05	0.05	ND(0.050)	ND(0.050)	ND(0.050)
1,2-Dichloropropane	ug/g	0.68	0.68	ND(0.050)	ND(0.050)	ND(0.050)
1,3-Dichlorobenzene	ug/g	12	12	ND(0.050)	ND(0.050)	ND(0.050)
1,4-Dichlorobenzene	ug/g	0.84	0.84	ND(0.050)	ND(0.050)	ND(0.050)
Methyl ethyl ketone	ug/g	88	88	ND(0.50)	ND(0.50)	ND(0.50)
Methyl isobutyl ketone	ug/g	210	210	ND(0.50)	ND(0.50)	ND(0.50)
Acetone	ug/g	28	28	ND(0.50)	ND(0.50)	ND(0.50)
Benzene	ug/g	0.4	0.4	ND(0.0050)	ND(0.0050)	ND(0.0050)
Bromodichloromethane	ug/g	18	18	ND(0.050)	ND(0.050)	ND(0.050)
Bromoform	ug/g	1.7	1.7	ND(0.050)	ND(0.050)	ND(0.050)
Bromomethane (Methyl bromide)	ug/g	0.05	0.05	ND(0.050)	ND(0.050)	ND(0.050)
Carbon tetrachloride	ug/g	1.5	1.5	ND(0.050)	ND(0.050)	ND(0.050)
Chlorobenzene	ug/g	2.7	2.7	ND(0.050)	ND(0.050)	ND(0.050)
Chloroform (Trichloromethane)	ug/g	0.18	0.18	ND(0.050)	ND(0.050)	ND(0.050)
cis-1,2-Dichloroethene	ug/g	37	37	ND(0.050)	ND(0.050)	ND(0.050)
cis-1,3-Dichloropropene	ug/g	NV	NV	ND(0.030)	ND(0.030)	ND(0.030)
cis/trans-1,3-Dichloropropene	ug/g	0.21	0.21	ND(0.05)	ND(0.05)	ND(0.05)
Dibromochloromethane	ug/g	13	13	ND(0.050)	ND(0.050)	ND(0.050)
Dichlorodifluoromethane (CFC-12)	ug/g	25	25	ND(0.050)	ND(0.050)	ND(0.050)
Ethylbenzene	ug/g	19	19	ND(0.015)	ND(0.015)	ND(0.015)
Hexane	ug/g	88	88	ND(0.050)	ND(0.050)	ND(0.050)
m&p-Xylenes	ug/g	NV	NV	ND(0.030)	ND(0.030)	ND(0.030)
Methyl tert butyl ether (MTBE)	ug/g	3.2	3.2	ND(0.040)	ND(0.040)	ND(0.040)
Methylene chloride	ug/g	2	2	ND(0.045)	ND(0.045)	ND(0.045)
o-Xylene	ug/g	NV	NV	ND(0.030)	ND(0.030)	ND(0.030)
Styrene	ug/g	43	43	ND(0.050)	ND(0.050)	ND(0.050)
Tetrachloroethene	ug/g	21	21	ND(0.050)	ND(0.050)	ND(0.050)
Toluene	ug/g	78	78	ND(0.050)	ND(0.050)	ND(0.050)
Total BTEX	ug/g	NV	NV	ND(0.1)	ND(0.1)	ND(0.1)
trans-1,2-Dichloroethene	ug/g	9.3	9.3	ND(0.050)	ND(0.050)	ND(0.050)
trans-1,3-Dichloropropene	ug/g	NV	NV	ND(0.030)	ND(0.030)	ND(0.030)
Trichloroethene	ug/g	0.61	0.61	ND(0.010)	ND(0.010)	ND(0.010)
Trichlorofluoromethane (CFC-11)	ug/g	5.8	5.8	ND(0.050)	ND(0.050)	ND(0.050)
Vinyl chloride	ug/g	0.25	0.25	ND(0.020)	ND(0.020)	ND(0.020)
Xylenes (total)	ug/g	30	30	ND(0.05)	ND(0.05)	ND(0.05)

Table 6

Summary of Soil Analytical Results
Phase Two Environmental Site Assessment
2524 Cawthra Road, Mississauga, Ontario
The Corporation of the City of Mississauga

Sample Location:				Trip Blank		
Sample Identification:				S-12581540-220606-JB-TRIP BLANK	S-12581540-220610-JB-TRIP BLANK	S-12581540-220614-JB-TRIP BLANK
Sample Date:				06/06/2022	06/10/2022	06/14/2022
Sample Depth (mBGS):				-	-	-
Lab Certificate of Analysis:				WT2205302	WT2205480	WT2205639
Parameters	**Units**	**2011 MOE Standards**		*Trip Blank*	*Trip Blank*	*Trip Blank*
		Table 3 ICC[1]	**Table 7 ICC[2]**			
Semi-Volatile Organic Compounds						
1+2-Methylnaphthalene	ug/g	85	85	-	-	-
1-Methylnaphthalene	ug/g	85	85	-	-	-
2-Methylnaphthalene	ug/g	85	85	-	-	-
Acenaphthene	ug/g	96	96	-	-	-
Acenaphthylene	ug/g	0.17	0.17	-	-	-
Anthracene	ug/g	0.74	0.74	-	-	-
Benzo(a)anthracene	ug/g	0.96	0.96	-	-	-
Benzo(a)pyrene	ug/g	0.3	0.3	-	-	-
Benzo(b/j)fluoranthene	ug/g	0.96	0.96	-	-	-
Benzo(g,h,i)perylene	ug/g	9.6	9.6	-	-	-
Benzo(k)fluoranthene	ug/g	0.96	0.96	-	-	-
Chrysene	ug/g	9.6	9.6	-	-	-
Dibenz(a,h)anthracene	ug/g	0.1	0.1	-	-	-
Fluoranthene	ug/g	9.6	9.6	-	-	-
Fluorene	ug/g	69	69	-	-	-
Indeno(1,2,3-cd)pyrene	ug/g	0.95	0.95	-	-	-
Naphthalene	ug/g	28	28	-	-	-
Phenanthrene	ug/g	16	16	-	-	-
Pyrene	ug/g	96	96	-	-	-
Metals						
Antimony	ug/g	50	50	-	-	-
Arsenic	ug/g	18	18	-	-	-
Barium	ug/g	670	670	-	-	-
Beryllium	ug/g	10	10	-	-	-
Boron	ug/g	120	120	-	-	-
Boron (hot water soluble)	ug/g	2	2	-	-	-
Cadmium	ug/g	1.9	1.9	-	-	-
Calcium (soluble)	mg/L	NV	NV	-	-	-
Chromium	ug/g	160	160	-	-	-
Chromium VI (hexavalent)	ug/g	10	10	-	-	-
Cobalt	ug/g	100	100	-	-	-
Copper	ug/g	300	300	-	-	-
Lead	ug/g	120	120	-	-	-
Magnesium (soluble)	mg/L	NV	NV	-	-	-
Mercury	ug/g	20	20	-	-	-
Molybdenum	ug/g	40	40	-	-	-
Nickel	ug/g	340	340	-	-	-
Selenium	ug/g	5.5	5.5	-	-	-
Silver	ug/g	50	50	-	-	-
Sodium (soluble)	mg/L	NV	NV	-	-	-
Thallium	ug/g	3.3	3.3	-	-	-
Uranium	ug/g	33	33	-	-	-
Vanadium	ug/g	86	86	-	-	-
Zinc	ug/g	340	340	-	-	-

Table 6

Summary of Soil Analytical Results
Phase Two Environmental Site Assessment
2524 Cawthra Road, Mississauga, Ontario
The Corporation of the City of Mississauga

Sample Location:				Trip Blank		
Sample Identification:				S-12581540-220606-JB-TRIP BLANK	S-12581540-220610-JB-TRIP BLANK	S-12581540-220614-JB-TRIP BLANK
Sample Date:				06/06/2022	06/10/2022	06/14/2022
Sample Depth (mBGS):				-	-	-
Lab Certificate of Analysis:				WT2205302	WT2205480	WT2205639
Parameters	**Units**	**2011 MOE Standards**		*Trip Blank*	*Trip Blank*	*Trip Blank*
		Table 3 ICC[1]	**Table 7 ICC[2]**			
Polychlorinated Biphenyls (PCBs)						
Aroclor-1016 (PCB-1016)	ug/g	NV	NV	-	-	-
Aroclor-1221 (PCB-1221)	ug/g	NV	NV	-	-	-
Aroclor-1232 (PCB-1232)	ug/g	NV	NV	-	-	-
Aroclor-1242 (PCB-1242)	ug/g	NV	NV	-	-	-
Aroclor-1248 (PCB-1248)	ug/g	NV	NV	-	-	-
Aroclor-1254 (PCB-1254)	ug/g	NV	NV	-	-	-
Aroclor-1260 (PCB-1260)	ug/g	NV	NV	-	-	-
Aroclor-1262 (PCB-1262)	ug/g	NV	NV	-	-	-
Aroclor-1268 (PCB-1268)	ug/g	NV	NV	-	-	-
Total PCBs	ug/g	1.1	1.1	-	-	-
Petroleum Hydrocarbons (PHCs)						
PHCs F1 (C6-C10)	ug/g	65	65	ND(5.0)	ND(5.0)	ND(5.0)
PHCs F1 minus BTEX	ug/g	65	65	ND(5)	ND(5)	ND(5)
PHCs F2 (C10-C16)	ug/g	250	250	-	-	-
PHCs F2 minus Naphthalene	ug/g	250	250	-	-	-
PHCs F3 (C16-C34)	ug/g	2500	2500	-	-	-
PHCs F3 minus PAH	ug/g	2500	2500	-	-	-
PHCs F4 (C34-C50)	ug/g	6600	6600	-	-	-
PHCs F4 gravimetric - silica gel (GHH)	ug/g	6600	6600	-	-	-
Total PHCs (C6-C50)	ug/g	NV	NV	-	-	-
General Chemistry						
Conductivity	mS/cm	1.4	1.4	-	-	-
Cyanide, weak acid dissociable	ug/g	0.051	0.051	-	-	-
Moisture	%	NV	NV	ND(0.25)	ND(0.25)	ND(0.25)
pH, soluble (1:2)	s.u.	(5-11) 5-9	(5-11) 5-9	-	-	-
Sodium adsorption ratio (SAR)	none	12	12	-	-	-

Notes:

(1)	Ontario Ministry of Environment (MOE) Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition for Industrial/Commercial/Community Property Use with medium to fine textured soils, April 2011
(2)	MOE, Table 7: Generic Site Condition Standards for Shallow Soils in a Non-Potable Ground Water Condition for Industrial/Commercial/Community Property Use with medium to fine textured soils, April 2011
mBGS	metres Below Ground Surface
ug/g	micrograms per gram
mS/cm	milliSiemens per centimetre
%	percent
s.u.	standard units
NV	No value
ND(0.01)	Not detected at the associated reporting limit indicated in brackets
-	Not analyzed
RED	Concentration above MOE Table 3 Standards
	Concentration above MOE Table 7 Standards

Table 7

Summary of Groundwater Analytical Results
Phase Two Environmental Site Assessment
2524 Cawthra Road, Mississauga, Ontario
The Corporation of the City of Mississauga

			Sample Location:	**MW1-22**	**MW2-22**	**MW3-22**		**MW4-22**	**Trip Blank**
			Sample Identification:	**GW-12581540-220617-SB-MW1**	**GW-12581540-220617-SB-MW2**	**GW-12581540-220617-SB-MW3**	**GW-12581540-220617-SB-MW3-DUP**	**GW-12581540-220617-SB-MW4**	**TRIP BLANK**
			Sample Date:	**06/17/2022**	**06/17/2022**	**06/17/2022**	**06/17/2022**	**06/17/2022**	**06/17/2022**
			Laboratory Certificate of Analysis:	**WT2205959**	**WT2205959**	**WT2205959**	**WT2205959**	**WT2205959**	**WT2205959**
Parameters	**Units**	**2011 MOE Standards**					***Field Duplicate***		
		Table 3 ICC[1]	**Table 7 ICC[2]**						
Volatile Organic Compounds									
1,1,1,2-Tetrachloroethane	ug/L	28	1.1	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)
1,1,1-Trichloroethane	ug/L	6700	23	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)
1,1,2,2-Tetrachloroethane	ug/L	15	0.5	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)
1,1,2-Trichloroethane	ug/L	30	0.5	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)
1,1-Dichloroethane	ug/L	3100	11	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)
1,1-Dichloroethene	ug/L	17	0.5	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)
1,2-Dibromoethane (Ethylene dibromide)	ug/L	0.83	0.2	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)
1,2-Dichlorobenzene	ug/L	9600	150	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)
1,2-Dichloroethane	ug/L	12	0.5	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)
1,2-Dichloropropane	ug/L	140	0.58	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)
1,3-Dichlorobenzene	ug/L	9600	7600	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)
1,4-Dichlorobenzene	ug/L	67	0.5	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	1500000	21000	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)
4-Methyl-2-pentanone (Methyl isobutyl keton	ug/L	580000	5200	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)
Acetone	ug/L	130000	100000	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)
Benzene	ug/L	430	0.5	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)
Bromodichloromethane	ug/L	85000	67000	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)
Bromoform	ug/L	770	5	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)
Bromomethane (Methyl bromide)	ug/L	56	0.89	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)
Carbon tetrachloride	ug/L	8.4	0.2	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)
Chlorobenzene	ug/L	630	140	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)
Chloroform (Trichloromethane)	ug/L	22	2	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)
cis-1,2-Dichloroethene	ug/L	17	1.6	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)
cis-1,3-Dichloropropene	ug/L	NV	NV	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)
cis-1,3-Dichloropropene/trans-1,3-Dichloropr	ug/L	45	0.5	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
Dibromochloromethane	ug/L	82000	65000	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)
Dichlorodifluoromethane (CFC-12)	ug/L	4400	3500	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)
Ethylbenzene	ug/L	2300	54	ND(0.50)	ND(0.50)	0.69	0.79	ND(0.50)	ND(0.50)
Hexane	ug/L	520	5	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)
m&p-Xylenes	ug/L	NV	NV	ND(0.40)	ND(0.40)	ND(0.40)	ND(0.40)	ND(0.40)	ND(0.40)
Methyl tert butyl ether (MTBE)	ug/L	1400	15	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)
Methylene chloride	ug/L	5500	26	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
o-Xylene	ug/L	NV	NV	ND(0.30)	ND(0.30)	0.80	0.89	ND(0.30)	ND(0.30)
Styrene	ug/L	9100	43	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)
Tetrachloroethene	ug/L	17	0.5	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)
Toluene	ug/L	18000	320	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)
trans-1,2-Dichloroethene	ug/L	17	1.6	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)
trans-1,3-Dichloropropene	ug/L	NV	NV	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)	ND(0.30)
Trichloroethene	ug/L	17	0.5	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)
Trichlorofluoromethane (CFC-11)	ug/L	2500	2000	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)
Vinyl chloride	ug/L	1.7	0.5	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)
Xylenes (total)	ug/L	4200	72	ND(0.50)	ND(0.50)	0.80	0.89	ND(0.50)	ND(0.50)

Table 7

Summary of Groundwater Analytical Results
Phase Two Environmental Site Assessment
2524 Cawthra Road, Mississauga, Ontario
The Corporation of the City of Mississauga

			Sample Location:	**MW1-22**	**MW2-22**	**MW3-22**		**MW4-22**	**Trip Blank**
			Sample Identification:	**GW-12581540-220617-SB-MW1**	**GW-12581540-220617-SB-MW2**	**GW-12581540-220617-SB-MW3**	**GW-12581540-220617-SB-MW3-DUP**	**GW-12581540-220617-SB-MW4**	**TRIP BLANK**
			Sample Date:	**06/17/2022**	**06/17/2022**	**06/17/2022**	**06/17/2022**	**06/17/2022**	**06/17/2022**
			Laboratory Certificate of Analysis:	**WT2205959**	**WT2205959**	**WT2205959**	**WT2205959**	**WT2205959**	**WT2205959**
Parameters	**Units**	**2011 MOE Standards**					***Field Duplicate***		
		Table 3 ICC[1]	**Table 7 ICC[2]**						
Semi-Volatile Organic Compounds									
1-Methylnaphthalene	ug/L	1800	1500	0.020	ND(0.015)	1.02	1.05	ND(0.015)	-
2-Methylnaphthalene	ug/L	1800	1500	0.020	ND(0.010)	0.829	0.851	ND(0.010)	-
1/2-Methylnaphthalene	ug/L	1800	1500	ND(0.010)	ND(0.010)	0.191	0.200	ND(0.010)	-
Acenaphthene	ug/L	1700	17	ND(0.010)	ND(0.010)	0.129	0.132	ND(0.010)	-
Acenaphthylene	ug/L	1.8	1	ND(0.010)	ND(0.010)	ND(0.011)	ND(0.014)	ND(0.010)	-
Anthracene	ug/L	2.4	1	ND(0.010)	ND(0.010)	ND(0.019)	ND(0.010)	ND(0.010)	-
Benzo(a)anthracene	ug/L	4.7	1.8	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	-
Benzo(a)pyrene	ug/L	0.81	0.81	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	-
Benzo(b/j)fluoranthene	ug/L	0.75	0.75	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	-
Benzo(g,h,i)perylene	ug/L	0.2	0.2	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	-
Benzo(k)fluoranthene	ug/L	0.4	0.4	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	-
Chrysene	ug/L	1	0.7	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	-
Dibenz(a,h)anthracene	ug/L	0.52	0.4	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	-
Fluoranthene	ug/L	130	44	ND(0.010)	ND(0.010)	0.012	0.011	ND(0.010)	-
Fluorene	ug/L	400	290	ND(0.010)	ND(0.010)	0.058	0.060	ND(0.010)	-
Indeno(1,2,3-cd)pyrene	ug/L	0.2	0.2	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	-
Naphthalene	ug/L	6400	7	ND(0.050)	ND(0.050)	0.208	0.218	ND(0.050)	-
Phenanthrene	ug/L	580	380	ND(0.020)	ND(0.020)	ND(0.144)	ND(0.116)	ND(0.020)	-
Pyrene	ug/L	68	5.7	ND(0.010)	ND(0.010)	ND(0.019)	ND(0.015)	ND(0.010)	-
Metals									
Antimony (dissolved)	ug/L	20000	16000	1.92	ND(1.00)	1.14	1.3	1.31	-
Arsenic (dissolved)	ug/L	1900	1500	3.59	ND(1.00)	271	304	1.73	-
Barium (dissolved)	ug/L	29000	23000	132	43.8	29.3	35.1	171	-
Beryllium (dissolved)	ug/L	67	53	ND(0.020)	ND(0.200)	ND(0.200)	ND(0.200)	ND(0.020)	-
Boron (dissolved)	ug/L	45000	36000	187	126	330	373	181	-
Cadmium (dissolved)	ug/L	2.7	2.1	0.0124	ND(0.0500)	ND(0.0500)	ND(0.0500)	0.0170	-
Chromium (dissolved)	ug/L	810	640	ND(0.50)	ND(5.00)	ND(5.00)	ND(5.00)	ND(0.50)	-
Chromium VI (hexavalent) (dissolved)	ug/L	140	110	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	-
Cobalt (dissolved)	ug/L	66	52	0.78	ND(1.00)	ND(1.00)	ND(1.00)	0.46	-
Copper (dissolved)	ug/L	87	69	1.87	2.51	ND(2.00)	ND(2.00)	1.03	-
Lead (dissolved)	ug/L	25	20	0.056	ND(0.500)	ND(0.500)	ND(0.500)	ND(0.050)	-
Mercury (dissolved)	ug/L	2.8	0.1	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	-
Molybdenum (dissolved)	ug/L	9200	7300	9.18	ND(0.500)	48.1	53.2	3.08	-
Nickel (dissolved)	ug/L	490	390	4.03	ND(5.00)	7.91	8.73	1.26	-
Selenium (dissolved)	ug/L	63	50	0.388	ND(0.500)	0.522	0.548	0.473	-
Silver (dissolved)	ug/L	1.5	1.2	ND(0.010)	ND(0.100)	ND(0.100)	ND(0.100)	ND(0.010)	-
Sodium (dissolved)	ug/L	2300000	1800000	174000	399000	242000	273000	147000	-
Thallium (dissolved)	ug/L	510	400	0.034	ND(0.100)	ND(0.100)	ND(0.100)	0.010	-
Uranium (dissolved)	ug/L	420	330	5.84	0.199	1.48	1.71	2.95	-
Vanadium (dissolved)	ug/L	250	200	1.16	ND(5.00)	25.7	29.1	0.64	-
Zinc (dissolved)	ug/L	1100	890	4.9	ND(10.0)	ND(10.0)	ND(10.0)	1.3	-

Table 7

Summary of Groundwater Analytical Results
Phase Two Environmental Site Assessment
2524 Cawthra Road, Mississauga, Ontario
The Corporation of the City of Mississauga

			Sample Location:	**MW1-22**	**MW2-22**	**MW3-22**		**MW4-22**	**Trip Blank**
			Sample Identification:	**GW-12581540-220617-SB-MW1**	**GW-12581540-220617-SB-MW2**	**GW-12581540-220617-SB-MW3**	**GW-12581540-220617-SB-MW3-DUP**	**GW-12581540-220617-SB-MW4**	**TRIP BLANK**
			Sample Date:	**06/17/2022**	**06/17/2022**	**06/17/2022**	**06/17/2022**	**06/17/2022**	**06/17/2022**
			Laboratory Certificate of Analysis:	**WT2205959**	**WT2205959**	**WT2205959**	**WT2205959**	**WT2205959**	**WT2205959**
Parameters	**Units**	**2011 MOE Standards**					***Field Duplicate***		
		Table 3 ICC[1]	**Table 7 ICC[2]**						
Polychlorinated Biphenyls (PCBs)									
Aroclor-1016 (PCB-1016)	ug/L	NV	NV	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	-
Aroclor-1221 (PCB-1221)	ug/L	NV	NV	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	-
Aroclor-1232 (PCB-1232)	ug/L	NV	NV	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	-
Aroclor-1242 (PCB-1242)	ug/L	NV	NV	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	-
Aroclor-1248 (PCB-1248)	ug/L	NV	NV	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	-
Aroclor-1254 (PCB-1254)	ug/L	NV	NV	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	-
Aroclor-1260 (PCB-1260)	ug/L	NV	NV	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	-
Aroclor-1262 (PCB-1262)	ug/L	NV	NV	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	-
Aroclor-1268 (PCB-1268)	ug/L	NV	NV	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	-
Total PCBs	ug/L	15	0.2	ND(0.060)	ND(0.060)	ND(0.060)	ND(0.060)	ND(0.060)	-
Petroleum Hydrocarbons (PHCs)									
PHCs F1 (C6-C10)	ug/L	750	420	ND(25)	ND(25)	ND(25)	ND(25)	ND(25)	ND(25)
PHCs F1 minus BTEX	ug/L	750	420	ND(25)	ND(25)	ND(25)	ND(25)	ND(25)	ND(25)
PHCs F2 (C10-C16)	ug/L	150	150	ND(100)	ND(100)	ND(100)	ND(100)	ND(100)	-
PHCs F2 minus Naphthalene	ug/L	150	150	ND(100)	ND(100)	ND(100)	ND(100)	ND(100)	-
PHCs F3 (C16-C34)	ug/L	500	500	ND(250)	ND(250)	ND(250)	ND(250)	ND(250)	-
PHCs F3 minus PAH	ug/L	500	500	ND(250)	ND(250)	ND(250)	ND(250)	ND(250)	-
PHCs F4 (C34-C50)	ug/L	500	500	ND(250)	ND(250)	ND(250)	ND(250)	ND(250)	-
Total PHCs (C6-C50)	ug/L	NV	NV	ND(370)	ND(370)	ND(370)	ND(370)	ND(370)	-
General Chemistry									
Chloride (dissolved)	mg/L	2300	1800	339	784	252	231	112	-
Conductivity	mS/cm	NV	NV	2.06	3.60	1.43	1.43	1.17	-
Cyanide, weak acid dissociable	ug/L	66	52	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	-
pH, lab	s.u.	NV	NV	7.64	7.20	8.60	8.59	7.68	-

Notes:

(1)	Ontario Ministry of Environment (MOE), Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition for Industrial/Commercial/Community Property Use with medium to fine textured soils, April 2011
(2)	Ontario MOE, Table 7: Generic Site Condition Standards for Shallow Soils in a Non-Potable Ground Water Condition for Industrial/Commercial/Community Property Use with medium to fine textured soils, April 2011
ug/L	micrograms per litre
mg/L	milligrams per litre
mS/cm	milliSiemens per centimetre
s.u.	standard units
NV	No value
ND(0.50)	Not detected at the associated reporting limit indicated in brackets
-	Not analyzed

Appendices

Appendix A

Stratigraphic and Instrumentation Logs

REFERENCE No.: 12581540 ENCLOSURE No.: 1

BOREHOLE No.: BH1-22
ELEVATION: 99.10 m

BOREHOLE LOG

Page: 1 of 1

CLIENT: City of Mississauga
PROJECT: Phase Two Environmental Site Assessment
LOCATION: 2524 Cawthra Road, Mississauga, Ontario
DESCRIBED BY: J. Bisson CHECKED BY:
DATE (START): 13 June 2022 DATE (FINISH): 13 June 2022

LEGEND

- SS Split Spoon
- ST Shelby Tube
- RC Rock Core
- Water Level
- Water content (%)
- Atterberg limits (%)
- N Penetration Index based on Split Spoon sample
- N Penetration Index based on Dynamic Cone sample
- Cu Shear Strength based on Field Vane
- Cu Shear Strength based on Lab Vane
- S Sensitivity Value of Soil
- Shear Strength based on Pocket Penetrometer

SCALE		STRATIGRAPHY		SAMPLE DATA					
Depth BGS	Elevation (m)	Stratigraphy	DESCRIPTION OF SOIL AND BEDROCK	State	Type and Number	Recovery	PID	Penetration Index / RQD %	SCALE FOR TEST RESULTS 50kPa 100kPa 150kPa 200kPa 10 20 30 40 50 60 70 80 90
metres	99.10		GROUND SURFACE			%	ppm	N	
0.5			FILL : SAND and GRAVEL, trace silt and clay, rootlets, brick fragments, yellow/brown, moist, compact		SS1	75	0.0	14	
					SS2A		0.0		
1.0	98.19		NATIVE : CI-SANDY SILTY CLAY, trace gravel, shale fragments, rootlets, mottled brown/grey, moist, stiff to hard (residual soil)		SS2B	58	0.1	13	
1.5									
2.0					SS3	67	0.2	53	
2.5	96.81		SHALE-BEDROCK, highly weathered, thinly bedded, fractured, grey		SS4	62	0.3	50/ 125mm	
3.0					SS5	100	0.1	50/ 25mm	
3.5									
4.0	WL 3.9 95.20		**END OF BOREHOLE :** **NOTE :** - Borehole terminated at 3.9 m bgs upon auger refusal within weathered bedrock - Groundwater encountered at 3.90 m bgs during drilling - bgs denotes 'below ground surface' - elevations are with respect to a temporary site benchmark (Light Pole #C19696) with an assumed elevation of 100 masl		SS6	100	0.1	50/ 75mm	
4.5									
5.0									
5.5									
6.0									
6.5									
7.0									

NOTES:

File: \\GHDNET\GHD\CA\MISSISSAUGA\PROJECTS\662\12581540\TECH\GINT\LOG DATABASE\12581540.GPJ Library File: GHD_GEOTECH_V10.GLB Report: BOREHOLE LOG Date: 28/7/22

REFERENCE No.: 12581540 ENCLOSURE No.: 1

BOREHOLE No.: MW1-22

ELEVATION: 99.11 m

BOREHOLE LOG

Page: 1 of 1

CLIENT: City of Mississauga

PROJECT: Phase Two Environmental Site Assessment

LOCATION: 2524 Cawthra Road, Mississauga, Ontario

DESCRIBED BY: J. Bisson CHECKED BY:

DATE (START): 6 June 2022 DATE (FINISH): 6 June 2022

LEGEND

- SS Split Spoon
- ST Shelby Tube
- RC Rock Core
- Water Level
- Water content (%)
- Atterberg limits (%)
- N Penetration Index based on Split Spoon sample
- N Penetration Index based on Dynamic Cone sample
- Cu Shear Strength based on Field Vane
- Cu Shear Strength based on Lab Vane
- S Sensitivity Value of Soil
- Shear Strength based on Pocket Penetrometer

SCALE		STRATIGRAPHY		MONITOR WELL	SAMPLE DATA				
Depth BGS	Elevation (m)	Stratigraphy	DESCRIPTION OF SOIL AND BEDROCK		State	Type and Number	Recovery	PID	Penetration Index / RQD %
metres	99.11		GROUND SURFACE				%	ppm	N
0.5			FILL : SAND and GRAVEL, brick fragments, brown, moist, dense	0.2		SS1	83	0.0	30
	98.50		SILT, trace clay, topsoil, brown, moist, loose	Holeplug		SS2	33	2.5	8
1.5	97.59		NATIVE : CI-SILTY CLAY, some sand, trace gravel, grey shale fragments, brown, moist, hard (residual soil)	2.1		SS3	71	2.8	32
2.5				WL 3.0		SS4	62	0.1	56
3.0	95.91		SHALE-BEDROCK, fine grained, thinly bedded, grey	#10 Screen		SS5	75	0.2	85/ 250mm
4.0	95.01		**END OF BOREHOLE :** **NOTE :** - End of Borehole at 4.1 m bgs (auger refusal) - Monitoring well instaled at 3.96 m bgs - Groundwater level found at 2.96 m bgs on June 17, 2022 - bgs denotes 'below ground surface' - elevations are with respect to a temporary site benchmark (Light Pole #C19696) with an assumed elevation of 100 masl	4.0 4.1		SS6	100	0.0	50/ 75mm
4.5									
5.0									
5.5									
6.0									
6.5									
7.0									

SCALE FOR TEST RESULTS
50kPa 100kPa 150kPa 200kPa
10 20 30 40 50 60 70 80 90

NOTES:

File: \\GHDNET\GHD\CA\MISSISSAUGA\PROJECTS\662\12581540\TECH\GINT\LOG DATABASE\12581540.GPJ Library File: GHD_GEOTECH_V10.GLB Report: BOREHOLE LOG Date: 28/7/22

REFERENCE No.: 12581540 ENCLOSURE No.: 2

BOREHOLE No.: BH2-22

ELEVATION: 98.69 m

BOREHOLE LOG

Page: 1 of 1

CLIENT: City of Mississauga

PROJECT: Phase Two Environmental Site Assessment

LOCATION: 2524 Cawthra Road, Mississauga, Ontario

DESCRIBED BY: J. Bisson CHECKED BY:

DATE (START): 14 June 2022 DATE (FINISH): 14 June 2022

LEGEND

- SS Split Spoon
- ST Shelby Tube
- RC Rock Core
- Water Level
- Water content (%)
- Atterberg limits (%)
- N Penetration Index based on Split Spoon sample
- N Penetration Index based on Dynamic Cone sample
- Cu Shear Strength based on Field Vane
- Cu Shear Strength based on Lab Vane
- S Sensitivity Value of Soil
- Shear Strength based on Pocket Penetrometer

SCALE		STRATIGRAPHY		SAMPLE DATA					
Depth BGS	Elevation (m)	Stratigraphy	DESCRIPTION OF SOIL AND BEDROCK	State	Type and Number	Recovery	PID	Penetration Index / RQD %	SCALE FOR TEST RESULTS 50kPa 100kPa 150kPa 200kPa 10 20 30 40 50 60 70 80 90
metres	98.69		GROUND SURFACE			%	ppm	N	
			FILL : SAND and GRAVEL, brown, moist		SS1A		0.0		
0.5	98.38		NATIVE : CI-SILTY CLAY, some sand, trace gravel, shale fragments, contains organics, mottled brown/grey, moist, stiff to very stiff		SS1B	75	0.0	13	●○
1.0					SS2	33	0.0	13	●○
1.5									
2.0					SS3	100	0.0	18	●
2.5	96.40		SHALE-BEDROCK, highly weathered, thinly bedded, fractured, grey		SS4	100	0.0	50/ 75mm	○
3.0					SS5	100	0.0	50/ 0mm	○
3.5									
4.0	94.79		**END OF BOREHOLE :**		SS6	100	0.0	50/ 100mm	○
4.5			**NOTE :** - Borehole terminated at 3.90 m bgs upon auger refusal within weathered bedrock - Borehole was open and dry upon completion - bgs denotes 'below ground surface' - elevations are with respect to a temporary site benchmark (Light Pole #C19696) with an assumed elevation of 100 masl						
5.0									
5.5									
6.0									
6.5									
7.0									

NOTES:

File: \\GHDNET\GHD\CA\MISSISSAUGA\PROJECTS\662\12581540\TECH\GINT\LOG DATABASE\12581540.GPJ Library File: GHD_GEOTECH_V10.GLB Report: BOREHOLE LOG Date: 28/7/22

REFERENCE No.: 12581540 ENCLOSURE No.: 2

BOREHOLE No.: MW2-22
ELEVATION: 98.75 m

BOREHOLE LOG

Page: 1 of 1

CLIENT: City of Mississauga
PROJECT: Phase Two Environmental Site Assessment
LOCATION: 2524 Cawthra Road, Mississauga, Ontario
DESCRIBED BY: J. Bisson CHECKED BY:
DATE (START): 6 June 2022 DATE (FINISH): 6 June 2022

LEGEND

- SS Split Spoon
- ST Shelby Tube
- RC Rock Core
- Water Level
- Water content (%)
- Atterberg limits (%)
- N Penetration Index based on Split Spoon sample
- N Penetration Index based on Dynamic Cone sample
- Cu Shear Strength based on Field Vane
- Cu Shear Strength based on Lab Vane
- S Sensitivity Value of Soil
- Shear Strength based on Pocket Penetrometer

Depth BGS	Elevation (m)	Stratigraphy	DESCRIPTION OF SOIL AND BEDROCK	MONITOR WELL	State	Type and Number	Recovery	PID	Penetration Index / RQD %
metres	98.75		GROUND SURFACE				%	ppm	N
0.5			FILL : SAND, trace silt, clayey silt lense, brown, moist, loose	0.3		SS1	50	0.2	7
1.0	97.99		SANDY SILTY CLAY, trace gravel, brick fragments, brown, moist, firm	Holeplug		SS2	67	0.1	5
1.5	97.23		NATIVE : CI-SANDY SILTY CLAY, shale fragments, brown, wet, hard (residual soil)	WL 1.9		SS3	50	0.0	35
2.0				2.1					
2.5						SS4	42	0.1	50/ 100mm
3.0	95.70		SHALE-BEDROCK, weathered, grey	#10 Screen		SS5	38	0.0	50/ 75mm
3.5									
4.0				4.0		SS6	100	0.0	50/ 125mm
	94.65		**END OF BOREHOLE :** **NOTE :** - End of Borehole at 4.1 m bgs (auger refusal) - Monitoring well installed at 3.96 m bgs - Groundwater encountered 1.52 m bgs during drilling - Groundwater level found at 1.94 m bgs on June 17, 2022 - bgs denotes 'below ground surface' - elevations are with respect to a temporary site benchmark (Light Pole #C19696) with an assumed elevation of 100 masl	4.1					
4.5									
5.0									
5.5									
6.0									
6.5									
7.0									

SCALE FOR TEST RESULTS
50kPa 100kPa 150kPa 200kPa
10 20 30 40 50 60 70 80 90

NOTES:

File: \\GHDNET\GHD\CA\MISSISSAUGA\PROJECTS\662\12581540\TECH\GINT\LOG DATABASE\12581540.GPJ Library File: GHD_GEOTECH_V10.GLB Report: BOREHOLE LOG Date: 28/7/22

REFERENCE No.: 12581540 ENCLOSURE No.: 3

BOREHOLE No.: BH3-22

ELEVATION: 99.20 m

BOREHOLE LOG

Page: 1 of 1

CLIENT: City of Mississauga

PROJECT: Phase Two Environmental Site Assessment

LOCATION: 2524 Cawthra Road, Mississauga, Ontario

DESCRIBED BY: J. Bisson CHECKED BY:

DATE (START): 14 June 2022 DATE (FINISH): 14 June 2022

LEGEND

- SS Split Spoon
- ST Shelby Tube
- RC Rock Core
- Water Level
- Water content (%)
- Atterberg limits (%)
- N Penetration Index based on Split Spoon sample
- N Penetration Index based on Dynamic Cone sample
- Cu Shear Strength based on Field Vane
- Cu Shear Strength based on Lab Vane
- S Sensitivity Value of Soil
- Shear Strength based on Pocket Penetrometer

SCALE		STRATIGRAPHY		SAMPLE DATA					
Depth BGS	Elevation (m)	Stratigraphy	DESCRIPTION OF SOIL AND BEDROCK	State	Type and Number	Recovery	PID	Penetration Index / RQD %	SCALE FOR TEST RESULTS 50kPa 100kPa 150kPa 200kPa 10 20 30 40 50 60 70 80 90
metres	99.20		GROUND SURFACE			%	ppm	N	
0.5			FILL : SAND and GRAVEL, trace brick fragments, yellow/red, moist, compact		SS1	58	0.0	24	
1.0	98.44		NATIVE : CI-SANDY SILTY CLAY, trace gravel, mottled brown/grey, moist, stiff		SS2	83	0.0	13	
1.5	97.68		CI-SILTY CLAY, some sand, shale fragments, grey, moist, stiff to hard (residual soil)		SS3	50	0.0	14	
2.0									
2.5					SS4	100	0.0	90/ 150mm	
3.0	96.15		SHALE-BEDROCK, weathered, thinly bedded, fractured, grey		SS5	100	0.0	50/ 100mm	
3.5									
4.0	95.30		**END OF BOREHOLE :** **NOTE :** - Borehole terminated at 3.9 m bgs upon auger refusal within weathered bedrock - Borehole was open and dry upon completion - bgs denotes 'below ground surface' - elevations are with respect to a temporary site benchmark (Light Pole #C19696) with an assumed elevation of 100 masl		SS6	100	0.0	50/ 75mm	
4.5									
5.0									
5.5									
6.0									
6.5									
7.0									

NOTES:

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REFERENCE No.: 12581540 ENCLOSURE No.: 3

BOREHOLE No.: MW3-22

ELEVATION: 99.25 m

BOREHOLE LOG

Page: 1 of 1

CLIENT: City of Mississauga

PROJECT: Phase Two Environmental Site Assessment

LOCATION: 2524 Cawthra Road, Mississauga, Ontario

DESCRIBED BY: J. Bisson CHECKED BY:

DATE (START): 6 June 2022 DATE (FINISH): 6 June 2022

LEGEND

- SS Split Spoon
- ST Shelby Tube
- RC Rock Core
- Water Level
- Water content (%)
- Atterberg limits (%)
- N Penetration Index based on Split Spoon sample
- N Penetration Index based on Dynamic Cone sample
- Cu Shear Strength based on Field Vane
- Cu Shear Strength based on Lab Vane
- S Sensitivity Value of Soil
- Shear Strength based on Pocket Penetrometer

SCALE		STRATIGRAPHY		MONITOR WELL	SAMPLE DATA				
Depth BGS	Elevation (m)	Stratigraphy	DESCRIPTION OF SOIL AND BEDROCK		State	Type and Number	Recovery	PID	Penetration Index / RQD %
metres	99.25		GROUND SURFACE				%	ppm	N
0.5			FILL : SAND and GRAVEL, asphalt fragments, brown, moist, compact	0.3 WL 0.4 Holeplug		SS1	50	0.4	22
	98.64		SAND, trace silt, brick fragments, petroleum/hydrocarbon like odour, black staining, wet, compact	0.8					
1.0						SS2	67	0.6	29
1.5	97.73		NATIVE : CI-SILTY CLAY, some sand, trace gravel, brown, moist, stiff to hard (residual soil)	#10 Screen		SS3	50	0.0	10
2.0									
2.5						SS4	42	0.1	48
3.0	96.20		SHALE-BEDROCK, weathered, grey	3.1 3.1		SS5	100	0.0	50/ 75mm
3.5	96.15		**END OF BOREHOLE :** **NOTE :** - Borehole terminated at 3.1 m bgs upon auger refusal within weathered bedrock - Monitoring well installed at 3.05 m bgs - Groundwater encountered 0.91 m bgs during drilling - Groundwater level found at 0.42 m bgs on June 17, 2022 - bgs denotes 'below ground surface' - elevations are with respect to a temporary site benchmark (Light Pole #C19696) with an assumed elevation of 100 masl						
4.0									
4.5									
5.0									
5.5									
6.0									
6.5									
7.0									

SCALE FOR TEST RESULTS: 50kPa 100kPa 150kPa 200kPa; 10 20 30 40 50 60 70 80 90

NOTES:

File: \\GHDNET\GHD\CA\MISSISSAUGA\PROJECTS\662\12581540\TECH\GINT\LOG DATABASE\12581540.GPJ Library File: GHD_GEOTECH_V10.GLB Report: BOREHOLE LOG Date: 28/7/22

REFERENCE No.: 12581540 ENCLOSURE No.: 4

BOREHOLE No.: BH4-22
ELEVATION: 99.27 m

BOREHOLE LOG

Page: 1 of 1

CLIENT: City of Mississauga
PROJECT: Phase Two Environmental Site Assessment
LOCATION: 2524 Cawthra Road, Mississauga, Ontario
DESCRIBED BY: J. Bisson CHECKED BY:
DATE (START): 14 June 2022 DATE (FINISH): 14 June 2022

LEGEND

- SS Split Spoon
- ST Shelby Tube
- RC Rock Core
- Water Level
- Water content (%)
- Atterberg limits (%)
- N Penetration Index based on Split Spoon sample
- N Penetration Index based on Dynamic Cone sample
- Cu Shear Strength based on Field Vane
- Cu Shear Strength based on Lab Vane
- S Sensitivity Value of Soil
- Shear Strength based on Pocket Penetrometer

SCALE		STRATIGRAPHY		SAMPLE DATA					
Depth BGS	Elevation (m)	Stratigraphy	DESCRIPTION OF SOIL AND BEDROCK	State	Type and Number	Recovery	PID	Penetration Index / RQD %	SCALE FOR TEST RESULTS 50kPa 100kPa 150kPa 200kPa
metres	99.27		GROUND SURFACE			%	ppm	N	10 20 30 40 50 60 70 80 90
0.5			FILL : SAND and GRAVEL, asphalt and brick fragments, brown, moist, dense		SS1	75	0.0	30	
	98.66		NATIVE : CI-SANDY SILTY CLAY, rootlets, organics, green/grey, moist, stiff						
1.0					SS2	75	0.0	10	
1.5	97.75		CI-SILTY CLAY, some sand, shale fragments, grey, moist, stiff to hard (residual soil)						
2.0					SS3	75	0.0	10	
2.5					SS4	100	0.0	50/ 75mm	
3.0	96.22		SHALE-BEDROCK, weathered, thinly bedded, fractured, grey		SS5	100	0.0	50/ 25mm	
3.5	WL3.7								
	95.43		**END OF BOREHOLE :**		SS6	100	0.0	50/ 25mm	
4.0			**NOTE :**						
4.5			- Borehole terminated at 3.8 m bgs upon auger refusal within weathered bedrock - Groundwater level at 3.7 m bgs upon completion - bgs denotes 'below ground surface' - elevations are with respect to a temporary site benchmark (Light Pole #C19696) with an assumed elevation of 100 masl						
5.0									
5.5									
6.0									
6.5									
7.0									

NOTES:

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REFERENCE No.: 12581540 ENCLOSURE No.: 4

BOREHOLE No.: MW4-22

ELEVATION: 99.58 m

BOREHOLE LOG

Page: 1 of 1

CLIENT: City of Mississauga

PROJECT: Phase Two Environmental Site Assessment

LOCATION: 2524 Cawthra Road, Mississauga, Ontario

DESCRIBED BY: J. Bisson CHECKED BY:

DATE (START): 10 June 2022 DATE (FINISH): 10 June 2022

LEGEND

- SS Split Spoon
- ST Shelby Tube
- RC Rock Core
- Water Level
- Water content (%)
- Atterberg limits (%)
- ● N Penetration Index based on Split Spoon sample
- • N Penetration Index based on Dynamic Cone sample
- △ Cu Shear Strength based on Field Vane
- □ Cu Shear Strength based on Lab Vane
- S Sensitivity Value of Soil
- ▲ Shear Strength based on Pocket Penetrometer

SCALE		STRATIGRAPHY		MONITOR WELL	SAMPLE DATA					
Depth BGS	Elevation (m)	Stratigraphy	DESCRIPTION OF SOIL AND BEDROCK		State	Type and Number	Recovery	PID	Penetration Index / RQD %	SCALE FOR TEST RESULTS 50kPa 100kPa 150kPa 200kPa 10 20 30 40 50 60 70 80 90
metres	99.58		GROUND SURFACE				%	ppm	N	
0.5	99.53		TOPSOIL : 50 mm FILL : SAND, some gravel, brown, moist, dense	0.3		SS1	67	0.0	46	
1.0	98.97		NATIVE : CI-SANDY SILTY CLAY, grey shale fragments, brown, moist, firm (residual soil)			SS2	50	0.0	4	
1.5	98.06		CL-SILTY CLAY and SAND, trace gravel, grey shale fragments, grey, moist, hard	Holeplug		SS3	92	0.0	33	
2.0										
2.5						SS4	50	0.0	50/ 125mm	
3.0				WL 2.9 3.1						
3.5	96.53		SHALE-BEDROCK, highly weathered to weathered, thinly bedded, grey			SS5	50	0.0	50/ 75mm	
4.0				#10 Screen		SS6	94	0.0	82/ 250mm	
4.5						SS7	75	0.0	50/ 100mm	
5.0										
5.5	94.18		**END OF BOREHOLE :** **NOTE :** - End of Borehole at 5.4 m bgs (auger refusal) - Monitoring well installed at 5.34 m bgs - Groundwater level found at 2.94 m bgs on June 17, 2022 - bgs denotes 'below ground surface' - elevations are with respect to a temporary site benchmark (Light Pole #C19696) with an assumed elevation of 100 masl	5.3 5.4		SS8	75	0.0	50/ 100mm	
6.0										
6.5										
7.0										

NOTES:

File: \\GHDNET\GHD\CA\MISSISSAUGA\PROJECTS\662\12581540\TECH\GINT\LOG DATABASE\12581540.GPJ Library File: GHD_GEOTECH_V10.GLB Report: BOREHOLE LOG Date: 28/7/22

REFERENCE No.: 12581540 ENCLOSURE No.: 5

BOREHOLE No.: BH5-22
ELEVATION: 99.25 m

BOREHOLE LOG

Page: 1 of 1

CLIENT: City of Mississauga
PROJECT: Phase Two Environmental Site Assessment
LOCATION: 2524 Cawthra Road, Mississauga, Ontario
DESCRIBED BY: J. Bisson CHECKED BY:
DATE (START): 14 June 2022 DATE (FINISH): 14 June 2022

LEGEND

- SS Split Spoon
- ST Shelby Tube
- RC Rock Core
- Water Level
- Water content (%)
- Atterberg limits (%)
- N Penetration Index based on Split Spoon sample
- N Penetration Index based on Dynamic Cone sample
- Cu Shear Strength based on Field Vane
- Cu Shear Strength based on Lab Vane
- S Sensitivity Value of Soil
- Shear Strength based on Pocket Penetrometer

SCALE		STRATIGRAPHY		SAMPLE DATA					
Depth BGS	Elevation (m)	Stratigraphy	DESCRIPTION OF SOIL AND BEDROCK	State	Type and Number	Recovery	PID	Penetration Index / RQD %	SCALE FOR TEST RESULTS 50kPa 100kPa 150kPa 200kPa
metres	99.25		GROUND SURFACE			%	ppm	N	10 20 30 40 50 60 70 80 90
			FILL : SAND and GRAVEL, trace gravel, trace brick fragments, brown, moist, dense		SS1	92	0.0	42	
0.5									
	98.64		NATIVE : CI-SANDY SILTY CLAY, trace gravel, organics, olive green, moist, stiff		SS2	75	0.0	11	
1.0									
1.5	97.73		CI-SILTY CLAY, some sand, shale fragments, grey, moist, very stiff to hard (residual soil)		SS3	79	0.0	15	
2.0									
2.5					SS4	100	0.0	50/ 75mm	
	96.75		**END OF BOREHOLE :** **NOTE :** - Borehole terminated at 2.5 m bgs upon auger refusal within presumed bedrock - Borehole was open and dry upon completion - bgs denotes 'below ground surface' - elevations are with respect to a temporary site benchmark (Light Pole #C19696) with an assumed elevation of 100 masl						
3.0									
3.5									
4.0									
4.5									
5.0									
5.5									
6.0									
6.5									
7.0									

NOTES:

File: \\GHDNET\GHD\CA\MISSISSAUGA\PROJECTS\662\12581540\TECH\GINT\LOG DATABASE\12581540.GPJ Library File: GHD_GEOTECH_V10.GLB Report: BOREHOLE LOG Date: 28/7/22

REFERENCE No.: 12581540 ENCLOSURE No.: 6

BOREHOLE No.: BH6-22
ELEVATION: 99.26 m

BOREHOLE LOG

Page: 1 of 1

CLIENT: City of Mississauga
PROJECT: Phase Two Environmental Site Assessment
LOCATION: 2524 Cawthra Road, Mississauga, Ontario
DESCRIBED BY: J. Bisson CHECKED BY:
DATE (START): 14 June 2022 DATE (FINISH): 14 June 2022

LEGEND

- SS Split Spoon
- ST Shelby Tube
- RC Rock Core
- Water Level
- Water content (%)
- Atterberg limits (%)
- N Penetration Index based on Split Spoon sample
- N Penetration Index based on Dynamic Cone sample
- Cu Shear Strength based on Field Vane
- Cu Shear Strength based on Lab Vane
- S Sensitivity Value of Soil
- Shear Strength based on Pocket Penetrometer

SCALE		STRATIGRAPHY		SAMPLE DATA					
Depth BGS	Elevation (m)	Stratigraphy	DESCRIPTION OF SOIL AND BEDROCK	State	Type and Number	Recovery	PID	Penetration Index / RQD %	SCALE FOR TEST RESULTS 50kPa 100kPa 150kPa 200kPa
metres	99.26		GROUND SURFACE			%	ppm	N	10 20 30 40 50 60 70 80 90
0.5			FILL : SAND and GRAVEL, trace brick and asphalt fragments, brown, moist, compact		SS1	79	0.0	24	
1.0					SS2	42	0.0	10	
1.5	97.89		NATIVE : CI-SILTY CLAY, some sand, shale fragments, grey, moist, very stiff to hard (residual soil)		SS3	67	0.0	23	
2.0	WL2.1								
2.5					SS4	100	0.0	74/ 250mm	
	96.56		**END OF BOREHOLE :** **NOTE :** - Borehole terminated at 2.7 m bgs upon auger refusal within presumed bedrock - Groundwater level measured at 2.13 m bgs upon completion - bgs denotes 'below ground surface' - elevations are with respect to a temporary site benchmark (Light Pole #C19696) with an assumed elevation of 100 masl						
3.0									
3.5									
4.0									
4.5									
5.0									
5.5									
6.0									
6.5									
7.0									

NOTES:

File: \\GHDNET\GHD\CA\MISSISSAUGA\PROJECTS\662\12581540\TECH\GINT\LOG DATABASE\12581540.GPJ Library File: GHD_GEOTECH_V10.GLB Report: BOREHOLE LOG Date: 28/7/22

REFERENCE No.: 12581540 ENCLOSURE No.: 7

BOREHOLE No.: BH7-22
ELEVATION: 99.29 m

BOREHOLE LOG

Page: 1 of 1

CLIENT: City of Mississauga
PROJECT: Phase Two Environmental Site Assessment
LOCATION: 2524 Cawthra Road, Mississauga, Ontario
DESCRIBED BY: J. Bisson CHECKED BY:
DATE (START): 13 June 2022 DATE (FINISH): 13 June 2022

LEGEND

- SS Split Spoon
- ST Shelby Tube
- RC Rock Core
- Water Level
- Water content (%)
- Atterberg limits (%)
- N Penetration Index based on Split Spoon sample
- N Penetration Index based on Dynamic Cone sample
- Cu Shear Strength based on Field Vane
- Cu Shear Strength based on Lab Vane
- S Sensitivity Value of Soil
- Shear Strength based on Pocket Penetrometer

SCALE		STRATIGRAPHY		SAMPLE DATA					
Depth BGS	Elevation (m)	Stratigraphy	DESCRIPTION OF SOIL AND BEDROCK	State	Type and Number	Recovery	PID	Penetration Index / RQD %	SCALE FOR TEST RESULTS 50kPa 100kPa 150kPa 200kPa 10 20 30 40 50 60 70 80 90
metres	99.29		GROUND SURFACE			%	ppm	N	
0.5			FILL : SAND and GRAVEL, concrete, asphalt, glass fragments, brown/grey, moist, compact		SS1	92	0.0	28	
	98.68		SILTY CLAY, trace sand and gravel, mottled grey/brown, moist, stiff		SS2	96	0.0	10	
1.5	WL1.5				SS3A	83	0.0	16	
2.0	97.46		SAND, some gravel, brick fragments, wet, compact		SS3B		0.0		
2.5	97.00		NATIVE : CI-SANDY SILTY CLAY, brown, moist, hard		SS4	100	0.0	50/ 75mm	
3.0	96.24		CI-SILTY CLAY and SAND, trace gravel, shale fragments, grey, moist, hard (residual soil)		SS5	100	0.0	50/ 125mm	
4.0	95.48		SHALE-BEDROCK, thinly bedded, fine grained, weathered, grey		SS6	100	0.0	50/ 75mm	
	95.39		**END OF BOREHOLE :**						
4.5			**NOTE :**						
5.0			- Borehole terminated at 3.9 m bgs upon auger refusal within weathered bedrock - Groundwater encountered at 1.67 m bgs during drilling - Groundwater level measured at 1.5 m bgs upon completion - bgs denotes 'below ground surface' - elevations are with respect to a temporary site benchmark (Light Pole #C19696) with an assumed elevation of 100 masl						
5.5									
6.0									
6.5									
7.0									

NOTES:

File: \\GHDNET\GHD\CA\MISSISSAUGA\PROJECTS\662\12581540\TECH\GINT\LOG DATABASE\12581540.GPJ Library File: GHD_GEOTECH_V10.GLB Report: BOREHOLE LOG Date: 28/7/22

REFERENCE No.: 12581540 ENCLOSURE No.: 8

BOREHOLE No.: BH8-22
ELEVATION: 99.27 m

BOREHOLE LOG

Page: 1 of 1

CLIENT: City of Mississauga
PROJECT: Phase Two Environmental Site Assessment
LOCATION: 2524 Cawthra Road, Mississauga, Ontario
DESCRIBED BY: J. Bisson CHECKED BY:
DATE (START): 14 June 2022 DATE (FINISH): 14 June 2022

LEGEND

- SS Split Spoon
- ST Shelby Tube
- RC Rock Core
- Water Level
- Water content (%)
- Atterberg limits (%)
- N Penetration Index based on Split Spoon sample
- N Penetration Index based on Dynamic Cone sample
- Cu Shear Strength based on Field Vane
- Cu Shear Strength based on Lab Vane
- S Sensitivity Value of Soil
- Shear Strength based on Pocket Penetrometer

SCALE		STRATIGRAPHY		SAMPLE DATA					
Depth BGS	Elevation (m)	Stratigraphy	DESCRIPTION OF SOIL AND BEDROCK	State	Type and Number	Recovery	PID	Penetration Index / RQD %	SCALE FOR TEST RESULTS 50kPa 100kPa 150kPa 200kPa
metres	99.27		GROUND SURFACE			%	ppm	N	10 20 30 40 50 60 70 80 90
0.5			FILL : SAND and GRAVEL, trace silt, brick and asphalt fragments, brown, moist, dense		SS1	100	0.0	33	
1.0	98.51		SANDY SILTY CLAY, trace gravel, brick fragments, brown/grey, moist, very stiff		SS2	54	0.0	18	
	WL1.2								
1.5	97.75		CI-SILTY CLAY, trace sand, grey shale fragments, grey, moist, very stiff to hard (residual soil)		SS3	87	0.0	19	
2.0									
2.5					SS4	100	0.0	86	
3.0	96.22		SHALE-BEDROCK, highly weathered, thinly bedded, grey		SS5	100	0.0	50/ 100mm	
3.5									
4.0	95.37		**END OF BOREHOLE :** **NOTE :** - Borehole terminated at 3.9 m bgs upon auger refusal within weathered bedrock - Groundwater encountered at 0.91 m bgs during drilling - Groundwater level measured at 1.23 m bgs upon completion - bgs denotes 'below ground surface' - elevations are with respect to a temporary site benchmark (Light Pole #C19696) with an assumed elevation of 100 masl		SS6	100	0.0	50/ 50mm	
4.5									
5.0									
5.5									
6.0									
6.5									
7.0									

NOTES:

File: \\GHDNET\GHD\CA\MISSISSAUGA\PROJECTS\662\12581540\TECH\GINT\LOG DATABASE\12581540.GPJ Library File: GHD_GEOTECH_V10.GLB Report: BOREHOLE LOG Date: 28/7/22

REFERENCE No.: 12581540 ENCLOSURE No.: 9

BOREHOLE No.: BH9-22

ELEVATION: 99.20 m

BOREHOLE LOG

Page: 1 of 1

CLIENT: City of Mississauga

PROJECT: Phase Two Environmental Site Assessment

LOCATION: 2524 Cawthra Road, Mississauga, Ontario

DESCRIBED BY: J. Bisson CHECKED BY:

DATE (START): 14 June 2022 DATE (FINISH): 14 June 2022

LEGEND

- SS Split Spoon
- ST Shelby Tube
- RC Rock Core
- Water Level
- Water content (%)
- Atterberg limits (%)
- N Penetration Index based on Split Spoon sample
- N Penetration Index based on Dynamic Cone sample
- Cu Shear Strength based on Field Vane
- Cu Shear Strength based on Lab Vane
- S Sensitivity Value of Soil
- Shear Strength based on Pocket Penetrometer

SCALE		STRATIGRAPHY		SAMPLE DATA					
Depth BGS	Elevation (m)	Stratigraphy	DESCRIPTION OF SOIL AND BEDROCK	State	Type and Number	Recovery	PID	Penetration Index / RQD %	SCALE FOR TEST RESULTS (50kPa 100kPa 150kPa 200kPa)
metres	99.20		GROUND SURFACE			%	ppm	N	
0.5			FILL : SAND and GRAVEL, trace brick and asphalt fragments, brown, moist, dense		SS1	100	0.0	43	
1.0	98.44		SILTY CLAY, trace sand and gravel, olive green, moist, compact		SS2	16	0.0	18	
1.5	97.68		NATIVE : CI-SILTY CLAY, trace sand and gravel, grey shale fragments, grey, moist, very stiff to hard (residual soil)		SS3	100	0.0	17	
2.0					SS4	100	0.0	50/ 100mm	
2.5	96.67		CI-SANDY SILTY CLAY, grey, moist, hard						
3.0					SS5	100	0.0	50/ 75mm	
3.5	95.69		SHALE-BEDROCK, highly weathered, thinly bedded, grey		SS6	100	0.0	50/ 75mm	
4.0	95.30		**END OF BOREHOLE :** **NOTE :** - Borehole terminated at 3.9 m bgs upon auger refusal within weathered bedrock - Borehole was open and dry upon completion - bgs denotes 'below ground surface' - elevations are with respect to a temporary site benchmark (Light Pole #C19696) with an assumed elevation of 100 masl						
4.5									
5.0									
5.5									
6.0									
6.5									
7.0									

NOTES:

File: \\GHDNET\GHD\CA\MISSISSAUGA\PROJECTS\662\12581540\TECH\GINT\LOG DATABASE\12581540.GPJ Library File: GHD_GEOTECH_V10.GLB Report: BOREHOLE LOG Date: 28/7/22

REFERENCE No.: 12581540 ENCLOSURE No.: 10

BOREHOLE No.: BH10-22
ELEVATION: 99.34 m

BOREHOLE LOG

Page: 1 of 1

CLIENT: City of Mississauga
PROJECT: Phase Two Environmental Site Assessment
LOCATION: 2524 Cawthra Road, Mississauga, Ontario
DESCRIBED BY: J. Bisson CHECKED BY:
DATE (START): 13 June 2022 DATE (FINISH): 13 June 2022

LEGEND

- SS Split Spoon
- ST Shelby Tube
- RC Rock Core
- Water Level
- Water content (%)
- Atterberg limits (%)
- N Penetration Index based on Split Spoon sample
- N Penetration Index based on Dynamic Cone sample
- Cu Shear Strength based on Field Vane
- Cu Shear Strength based on Lab Vane
- S Sensitivity Value of Soil
- Shear Strength based on Pocket Penetrometer

SCALE		STRATIGRAPHY		SAMPLE DATA					
Depth BGS	Elevation (m)	Stratigraphy	DESCRIPTION OF SOIL AND BEDROCK	State	Type and Number	Recovery	PID	Penetration Index / RQD %	SCALE FOR TEST RESULTS 50kPa 100kPa 150kPa 200kPa
metres	99.34		GROUND SURFACE			%	ppm	N	10 20 30 40 50 60 70 80 90
0.5	WL0.6		FILL : SAND and GRAVEL, trace brick and concrete fragments, grass, brown, moist, dense		SS1	100	0.9	46	
1.0	98.58		SANDY SILTY CLAY, trace gravel, topsoil, shale and brick fragments, mottled brown/grey, moist, stiff		SS2	16	0.0	11	
1.5	97.82		NATIVE : CI-SANDY SILTY CLAY, trace gravel, shale fragments, brown/grey, moist, hard		SS3	100	0.0	50/ 125mm	
2.5					SS4	100	0.0	50/ 125mm	
3.0	96.44		SHALE-BEDROCK, highly weathered, fine grained, thinly bedded, brown/grey		SS5	100	0.0	50/ 75mm	
	96.24		**END OF BOREHOLE :**						

NOTE :

- Borehole terminated at 3.1 m bgs upon auger refusal within weathered bedrock
- Groundwater encountered at 0.61 m bgs during drilling
- Borehole was dry upon completion
- bgs denotes 'below ground surface'
- elevations are with respect to a temporary site benchmark (Light Pole #C19696) with an assumed elevation of 100 masl

NOTES:

File: \\GHDNET\GHD\CA\MISSISSAUGA\PROJECTS\662\12581540\TECH\GINT\LOG DATABASE\12581540.GPJ Library File: GHD_GEOTECH_V10.GLB Report: BOREHOLE LOG Date: 28/7/22

REFERENCE No.: 12581540 ENCLOSURE No.: 11

BOREHOLE No.: BH11-22
ELEVATION: 99.31 m

BOREHOLE LOG

Page: 1 of 1

CLIENT: City of Mississauga
PROJECT: Phase Two Environmental Site Assessment
LOCATION: 2524 Cawthra Road, Mississauga, Ontario
DESCRIBED BY: J. Bisson CHECKED BY:
DATE (START): 13 June 2022 DATE (FINISH): 13 June 2022

LEGEND

- SS Split Spoon
- ST Shelby Tube
- RC Rock Core
- Water Level
- Water content (%)
- Atterberg limits (%)
- N Penetration Index based on Split Spoon sample
- N Penetration Index based on Dynamic Cone sample
- Cu Shear Strength based on Field Vane
- Cu Shear Strength based on Lab Vane
- S Sensitivity Value of Soil
- Shear Strength based on Pocket Penetrometer

SCALE		STRATIGRAPHY		SAMPLE DATA					
Depth BGS	Elevation (m)	Stratigraphy	DESCRIPTION OF SOIL AND BEDROCK	State	Type and Number	Recovery	PID	Penetration Index / RQD %	SCALE FOR TEST RESULTS 50kPa 100kPa 150kPa 200kPa
metres	99.31		GROUND SURFACE			%	ppm	N	10 20 30 40 50 60 70 80 90
0.5			FILL : SAND and GRAVEL, trace brick, concrete, asphalt and paper fragments, possible black staining, brown, moist, dense		SS1	100	0.1	34	
1.0	98.55		SILTY CLAY, some sand, grey shale fragments, moist, firm		SS2	67	0.0	6	
1.5	97.79		NATIVE : CI-SILTY CLAY, some sand, brown, moist, very stiff to hard (residual soil)		SS3	79	0.0	17	
2.0									
2.5					SS4	79	0.0	50/ 125mm	
3.0					SS5	82	0.0	50/ 125mm	
3.5									
4.0	WL 4.0 95.35				SS6	100	0.0	50/ 125mm	
4.5			SHALE-BEDROCK, highly weathered, thinly bedded, grey		SS7	100	0.0	50/ 100mm	
5.0	94.61		**END OF BOREHOLE :** **NOTE :** - Borehole terminated at 4.7 m bgs upon auger refusal within weathered bedrock - Groundwater level measured at 3.96 m bgs upon completion - bgs denotes 'below ground surface' - elevations are with respect to a temporary site benchmark (Light Pole #C19696) with an assumed elevation of 100 masl						
5.5									
6.0									
6.5									
7.0									

NOTES:

File: \\GHDNET\GHD\CA\MISSISSAUGA\PROJECTS\662\12581540\TECH\GINT\LOG DATABASE\12581540.GPJ Library File: GHD_GEOTECH_V10.GLB Report: BOREHOLE LOG Date: 28/7/22

REFERENCE No.: 12581540 ENCLOSURE No.: 12

BOREHOLE No.: BH12-22

ELEVATION: 99.51 m

BOREHOLE LOG

Page: 1 of 1

CLIENT: City of Mississauga

PROJECT: Phase Two Environmental Site Assessment

LOCATION: 2524 Cawthra Road, Mississauga, Ontario

DESCRIBED BY: J. Bisson CHECKED BY:

DATE (START): 10 June 2022 DATE (FINISH): 10 June 2022

LEGEND

- SS Split Spoon
- ST Shelby Tube
- RC Rock Core
- Water Level
- Water content (%)
- Atterberg limits (%)
- N Penetration Index based on Split Spoon sample
- N Penetration Index based on Dynamic Cone sample
- Cu Shear Strength based on Field Vane
- Cu Shear Strength based on Lab Vane
- S Sensitivity Value of Soil
- Shear Strength based on Pocket Penetrometer

SCALE		STRATIGRAPHY		SAMPLE DATA					
Depth BGS	Elevation (m)	Stratigraphy	DESCRIPTION OF SOIL AND BEDROCK	State	Type and Number	Recovery	PID	Penetration Index / RQD %	SCALE FOR TEST RESULTS 50kPa 100kPa 150kPa 200kPa
metres	99.51		GROUND SURFACE			%	ppm	N	10 20 30 40 50 60 70 80 90
	99.44		ASPHALT : 70 mm thick						
0.5			GRANULAR FILL : SAND and GRAVEL, brown, moist, compact		SS1	50	0.0	27	
	98.75		NATIVE : CI-SANDY SILTY CLAY, trace gravel, grey shale fragments, brown, moist, very stiff to hard (residual soil)		SS2	50	0.0	19	
1.5									
2.0					SS3	58	0.0	41	
	97.22		SHALE-BEDROCK, highly weathered, thinly bedded, grey		SS4	100	0.0	50/ 125mm	
2.5	WL2.7								
3.0					SS5	100	0.0	50/ 125mm	
	96.31		**END OF BOREHOLE :** **NOTE :** - Borehole terminated at 3.2 m bgs upon auger refusal within weathered bedrock - Groundwater encountered 2.29 m bgs during drilling - Groundwater level measured at 2.71 m bgs upon completion - bgs denotes 'below ground surface' - elevations are with respect to a temporary site benchmark (Light Pole #C19696) with an assumed elevation of 100 masl						
3.5									
4.0									
4.5									
5.0									
5.5									
6.0									
6.5									
7.0									

NOTES:

File: \\GHDNET\GHD\CA\MISSISSAUGA\PROJECTS\662\12581540\TECH\GINT\LOG DATABASE\12581540.GPJ Library File: GHD_GEOTECH_V10.GLB Report: BOREHOLE LOG Date: 28/7/22

REFERENCE No.: 12581540 ENCLOSURE No.: 13

BOREHOLE No.: BH13-22
ELEVATION: 99.36 m

BOREHOLE LOG

Page: 1 of 1

CLIENT: City of Mississauga
PROJECT: Phase Two Environmental Site Assessment
LOCATION: 2524 Cawthra Road, Mississauga, Ontario
DESCRIBED BY: J. Bisson CHECKED BY:
DATE (START): 10 June 2022 DATE (FINISH): 10 June 2022

LEGEND

- SS Split Spoon
- ST Shelby Tube
- RC Rock Core
- Water Level
- Water content (%)
- Atterberg limits (%)
- N Penetration Index based on Split Spoon sample
- N Penetration Index based on Dynamic Cone sample
- Cu Shear Strength based on Field Vane
- Cu Shear Strength based on Lab Vane
- S Sensitivity Value of Soil
- Shear Strength based on Pocket Penetrometer

SCALE		STRATIGRAPHY		SAMPLE DATA					
Depth BGS	Elevation (m)	Stratigraphy	DESCRIPTION OF SOIL AND BEDROCK	State	Type and Number	Recovery	PID	Penetration Index / RQD %	SCALE FOR TEST RESULTS 50kPa 100kPa 150kPa 200kPa 10 20 30 40 50 60 70 80 90
metres	99.36		GROUND SURFACE			%	ppm	N	
0.5			FILL : SAND and GRAVEL, silt lense, brown, moist, loose		SS1	50	0.0	7	
1.0	98.60		NATIVE : CI-SANDY SILTY CLAY, trace gravel, brown, moist, stiff to hard		SS2	29	0.0	12	
1.5					SS3	82	0.0	50/ 125mm	
2.0									
2.5	97.07		SHALE-BEDROCK, highly weathered, thinly bedded, grey		SS4	100	0.0	50/ 125mm	
3.0					SS5	100	0.0	50/ 100mm	
3.5	96.16		**END OF BOREHOLE :** **NOTE :** - Borehole terminated at 3.2 m bgs upon auger refusal within weathered bedrock - Borehole was dry upon completion - bgs denotes 'below ground surface' - elevations are with respect to a temporary site benchmark (Light Pole #C19696) with an assumed elevation of 100 masl						
4.0									
4.5									
5.0									
5.5									
6.0									
6.5									
7.0									

NOTES:

File: \\GHDNET\GHD\CA\MISSISSAUGA\PROJECTS\662\12581540\TECH\GINT\LOG DATABASE\12581540.GPJ Library File: GHD_GEOTECH_V10.GLB Report: BOREHOLE LOG Date: 28/7/22

REFERENCE No.: 12581540 ENCLOSURE No.: 14

BOREHOLE No.: BH14-22
ELEVATION: 99.76 m

BOREHOLE LOG

Page: 1 of 1

CLIENT: City of Mississauga
PROJECT: Phase Two Environmental Site Assessment
LOCATION: 2524 Cawthra Road, Mississauga, Ontario
DESCRIBED BY: J. Bisson CHECKED BY:
DATE (START): 10 June 2022 DATE (FINISH): 10 June 2022

LEGEND

- SS Split Spoon
- ST Shelby Tube
- RC Rock Core
- Water Level
- Water content (%)
- Atterberg limits (%)
- N Penetration Index based on Split Spoon sample
- N Penetration Index based on Dynamic Cone sample
- Cu Shear Strength based on Field Vane
- Cu Shear Strength based on Lab Vane
- S Sensitivity Value of Soil
- Shear Strength based on Pocket Penetrometer

SCALE		STRATIGRAPHY		SAMPLE DATA					
Depth BGS	Elevation (m)	Stratigraphy	DESCRIPTION OF SOIL AND BEDROCK	State	Type and Number	Recovery	PID	Penetration Index / RQD %	SCALE FOR TEST RESULTS 50kPa 100kPa 150kPa 200kPa
metres	99.76		GROUND SURFACE			%	ppm	N	10 20 30 40 50 60 70 80 90
	99.69		ASPHALT : 70 mm thick						
0.5	99.45		GRANULAR FILL : SAND and GRAVEL, brown, moist, compact		SS1	87	0.0	23	
1.0			GRAVELLY SAND, some silt, grey, moist, compact to dense		SS2	92	0.1	23	
1.5									
2.0					SS3	96	0.0	48	
	WL 2.3 97.47		NATIVE : SM-GRAVELLY SILTY SAND, with low plasticity fines, trace clay, grey shale fragments, grey, wet, very dense (residual soil)						
2.5					SS4	67	0.0	73	
3.0					SS5	100	0.0	50/100mm	
3.5	96.46		**END OF BOREHOLE :** **NOTE :** - Borehole terminated at 3.3 m bgs upon auger refusal within weathered bedrock - Groundwater level measured at 2.30 m bgs upon completion - bgs denotes 'below ground surface' - elevations are with respect to a temporary site benchmark (Light Pole #C19696) with an assumed elevation of 100 masl						
4.0									
4.5									
5.0									
5.5									
6.0									
6.5									
7.0									

NOTES:

File: \\GHDNET\GHD\CA\MISSISSAUGA\PROJECTS\662\12581540\TECH\GINT\LOG DATABASE\12581540.GPJ Library File: GHD_GEOTECH_V10.GLB Report: BOREHOLE LOG Date: 28/7/22

Appendix B

Analytical Data Reports

CERTIFICATE OF ANALYSIS

Work Order	: **WT2205302**	Page	: 1 of 20
Client	: **GHD Limited**	Laboratory	: Waterloo - Environmental
Contact	: Jennifer Balkwill	Account Manager	: Rick Hawthorne
Address	: 455 Phillip Street Waterloo ON Canada N2L 3X2	Address	: 60 Northland Road, Unit 1 Waterloo ON Canada N2V 2B8
Telephone	: ----	Telephone	: +1 519 886 6910
Project	: 12581540	Date Samples Received	: 09-Jun-2022 15:49
PO	: 735-003274	Date Analysis Commenced	: 10-Jun-2022
C-O-C number	: 20-951939	Issue Date	: 20-Jun-2022 07:50
Sampler	: CLIENT		
Site	: ----		
Quote number	: 12581540 - City of Mississauga		
No. of samples received	: 13		
No. of samples analysed	: 13		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with FDA 21 CFR Part 11.

Signatories	*Position*	*Laboratory Department*
Amanda Ganouri-Lumsden	Department Manager - Microbiology and Prep	Centralized Prep, Waterloo, Ontario
Andrea Armstrong	Department Manager - Air Quality and Volatiles	Organics, Waterloo, Ontario
Greg Pokocky	Supervisor - Inorganic	Inorganics, Waterloo, Ontario
Greg Pokocky	Supervisor - Inorganic	Metals, Waterloo, Ontario
Jeremy Gingras	Team Leader - Semi-Volatile Instrumentation	Organics, Waterloo, Ontario
Jocelyn Kennedy	Department Manager - Semi-Volatile Organics	Organics, Waterloo, Ontario
Jon Fisher	Department Manager - Inorganics	Inorganics, Waterloo, Ontario
Jon Fisher	Department Manager - Inorganics	Metals, Waterloo, Ontario
Sarah Birch	Team Leader - Volatiles	Organics, Waterloo, Ontario

General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.
Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key : CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances
LOR: Limit of Reporting (detection limit).

Unit	*Description*
-	No Unit
%	percent
mg/kg	milligrams per kilogram
mg/L	milligrams per litre
mS/cm	millisiemens per centimetre
pH units	pH units

>: greater than.
<: less than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Qualifiers

Qualifier	*Description*
DLM	*Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity).*
FR4	*As per applicable reference method(s), soil:water ratio for Fixed Ratio Leach was modified to 1:4 due to high soil organic content.*

Analytical Results

WT2205302-001

Sub-Matrix:**Soil**
(Matrix: **Soil/Solid**)

Client sample ID: S-12581540-220606-JB-MW1-22-0.0 TO 0.6
Client sampling date / time: 06-Jun-2022 15:15

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Physical Tests								
conductivity (1:2 leachate)	----	0.266	0.00500	mS/cm	E100-L	14-Jun-2022	14-Jun-2022	518750
moisture	----	6.84	0.25	%	E144	-	10-Jun-2022	518752
pH (1:2 soil:CaCl2-aq)	----	10.4	0.10	pH units	E108A	10-Jun-2022	10-Jun-2022	518550
Cyanides								
cyanide, weak acid dissociable	----	<0.050	0.050	mg/kg	E336A	10-Jun-2022	13-Jun-2022	518991
Saturated Paste Extractables								
calcium, soluble ion content	7440-70-2	34.0	0.50	mg/L	E484	14-Jun-2022	14-Jun-2022	518749
magnesium, soluble ion content	7439-95-4	1.08	0.50	mg/L	E484	14-Jun-2022	14-Jun-2022	518749
sodium, soluble ion content	17341-25-2	14.4	0.50	mg/L	E484	14-Jun-2022	14-Jun-2022	518749
sodium adsorption ratio [SAR]	----	0.66	0.10	-	E484	14-Jun-2022	14-Jun-2022	518749
Metals								
antimony	7440-36-0	1.26	0.10	mg/kg	E440	14-Jun-2022	14-Jun-2022	518748
arsenic	7440-38-2	3.87	0.10	mg/kg	E440	14-Jun-2022	14-Jun-2022	518748
barium	7440-39-3	50.2	0.50	mg/kg	E440	14-Jun-2022	14-Jun-2022	518748
beryllium	7440-41-7	0.17	0.10	mg/kg	E440	14-Jun-2022	14-Jun-2022	518748
boron	7440-42-8	6.2	5.0	mg/kg	E440	14-Jun-2022	14-Jun-2022	518748
boron, hot water soluble	7440-42-8	0.36	0.10	mg/kg	E487	14-Jun-2022	14-Jun-2022	518751
cadmium	7440-43-9	0.266	0.020	mg/kg	E440	14-Jun-2022	14-Jun-2022	518748
chromium	7440-47-3	71.8	0.50	mg/kg	E440	14-Jun-2022	14-Jun-2022	518748
cobalt	7440-48-4	3.84	0.10	mg/kg	E440	14-Jun-2022	14-Jun-2022	518748
copper	7440-50-8	44.5	0.50	mg/kg	E440	14-Jun-2022	14-Jun-2022	518748
lead	7439-92-1	17.8	0.50	mg/kg	E440	14-Jun-2022	14-Jun-2022	518748
mercury	7439-97-6	0.0072	0.0050	mg/kg	E510	14-Jun-2022	14-Jun-2022	518747
molybdenum	7439-98-7	3.40	0.10	mg/kg	E440	14-Jun-2022	14-Jun-2022	518748
nickel	7440-02-0	12.9	0.50	mg/kg	E440	14-Jun-2022	14-Jun-2022	518748
selenium	7782-49-2	<0.20	0.20	mg/kg	E440	14-Jun-2022	14-Jun-2022	518748
silver	7440-22-4	<0.10	0.10	mg/kg	E440	14-Jun-2022	14-Jun-2022	518748
thallium	7440-28-0	0.211	0.050	mg/kg	E440	14-Jun-2022	14-Jun-2022	518748
uranium	7440-61-1	0.297	0.050	mg/kg	E440	14-Jun-2022	14-Jun-2022	518748
vanadium	7440-62-2	47.8	0.20	mg/kg	E440	14-Jun-2022	14-Jun-2022	518748
zinc	7440-66-6	133	2.0	mg/kg	E440	14-Jun-2022	14-Jun-2022	518748
Speciated Metals								
chromium, hexavalent [Cr VI]	18540-29-9	1.58	0.10	mg/kg	E532	10-Jun-2022	13-Jun-2022	518990
Polychlorinated Biphenyls								
Aroclor 1016	12674-11-2	<0.010 DLM,	0.100	mg/kg	E687	13-Jun-2022	15-Jun-2022	521102
Aroclor 1221	11104-28-2	<0.010 DLM,	0.100	mg/kg	E687	13-Jun-2022	15-Jun-2022	521102
Aroclor 1232	11141-16-5	<0.010 DLM,	0.100	mg/kg	E687	13-Jun-2022	15-Jun-2022	521102
Aroclor 1242	53469-21-9	<0.010 DLM,	0.100	mg/kg	E687	13-Jun-2022	15-Jun-2022	521102
Aroclor 1248	12672-29-6	<0.010 DLM,	0.100	mg/kg	E687	13-Jun-2022	15-Jun-2022	521102
Aroclor 1254	11097-69-1	<0.010 DLM,	0.100	mg/kg	E687	13-Jun-2022	15-Jun-2022	521102
Aroclor 1260	11096-82-5	<0.010 DLM,	0.100	mg/kg	E687	13-Jun-2022	15-Jun-2022	521102
Aroclor 1262	37324-23-5	<0.010 DLM,	0.100	mg/kg	E687	13-Jun-2022	15-Jun-2022	521102
Aroclor 1268	11100-14-4	<0.010 DLM,	0.100	mg/kg	E687	13-Jun-2022	15-Jun-2022	521102
polychlorinated biphenyls [PCBs], total	----	<0.030 DLM,	0.300	mg/kg	E687	13-Jun-2022	15-Jun-2022	521102
Polychlorinated Biphenyls Surrogates								
fluorobiphenyl, 2-	321-60-8	71.1	0.1	%	E687	13-Jun-2022	15-Jun-2022	521102
terphenyl-d14, p-	1718-51-0	75.4	0.010	%	E687	13-Jun-2022	15-Jun-2022	521102

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

WT2205302-002

Sub-Matrix:**Soil**
(Matrix: **Soil/Solid**)

Client sample ID: S-12581540-220606-JB-MW1-22-1.5 TO 2.1
Client sampling date / time: 06-Jun-2022 15:35

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Physical Tests								
moisture	----	15.0	0.25	%	E144	-	10-Jun-2022	519031
Volatile Organic Compounds								
acetone	67-64-1	<0.50	0.50	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
benzene	71-43-2	<0.0050	0.0050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
bromodichloromethane	75-27-4	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
bromoform	75-25-2	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
bromomethane	74-83-9	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
carbon tetrachloride	56-23-5	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
chlorobenzene	108-90-7	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
chloroform	67-66-3	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dibromochloromethane	124-48-1	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dibromoethane, 1,2-	106-93-4	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichlorobenzene, 1,2-	95-50-1	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichlorobenzene, 1,3-	541-73-1	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichlorobenzene, 1,4-	106-46-7	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichlorodifluoromethane	75-71-8	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichloroethane, 1,1-	75-34-3	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichloroethane, 1,2-	107-06-2	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichloroethylene, 1,1-	75-35-4	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichloroethylene, cis-1,2-	156-59-2	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichloroethylene, trans-1,2-	156-60-5	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichloromethane	75-09-2	<0.045	0.045	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichloropropane, 1,2-	78-87-5	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichloropropylene, cis+trans-1,3-	542-75-6	<0.050	0.05	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichloropropylene, cis-1,3-	10061-01-5	<0.030	0.030	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichloropropylene, trans-1,3-	10061-02-6	<0.030	0.030	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
ethylbenzene	100-41-4	<0.015	0.015	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
hexane, n-	110-54-3	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
methyl ethyl ketone [MEK]	78-93-3	<0.50	0.50	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
methyl isobutyl ketone [MIBK]	108-10-1	<0.50	0.50	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
methyl-tert-butyl ether [MTBE]	1634-04-4	<0.040	0.040	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
styrene	100-42-5	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
tetrachloroethane, 1,1,1,2-	630-20-6	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
tetrachloroethane, 1,1,2,2-	79-34-5	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
tetrachloroethylene	127-18-4	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
toluene	108-88-3	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
trichloroethane, 1,1,1-	71-55-6	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
trichloroethane, 1,1,2-	79-00-5	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
trichloroethylene	79-01-6	<0.010	0.010	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
trichlorofluoromethane	75-69-4	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
vinyl chloride	75-01-4	<0.020	0.020	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
xylene, m+p-	179601-23-1	<0.030	0.030	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
xylene, o-	95-47-6	<0.030	0.030	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
xylenes, total	1330-20-7	<0.050	0.05	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
BTEX, total	----	<0.10	0.1	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
Volatile Organic Compounds Surrogates								

Analytical Results

WT2205302-002

Sub-Matrix:**Soil** *Client sample ID:* S-12581540-220606-JB-MW1-22-1.5 TO 2.1

(Matrix: **Soil/Solid**) *Client sampling date / time:* 06-Jun-2022 15:35

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds Surrogates								
bromofluorobenzene, 4-	460-00-4	124	0.10	%	E611D	11-Jun-2022	13-Jun-2022	519774
difluorobenzene, 1,4-	540-36-3	130	0.10	%	E611D	11-Jun-2022	13-Jun-2022	519774
Hydrocarbons								
F1 (C6-C10)	----	<5.0	5.0	mg/kg	E581.F1	11-Jun-2022	13-Jun-2022	519775
F2 (C10-C16)	----	<10	10	mg/kg	E601.SG-L	10-Jun-2022	17-Jun-2022	518994
F2-naphthalene	----	<25	25	mg/kg	EC600	-	16-Jun-2022	-
F3 (C16-C34)	----	<50	50	mg/kg	E601.SG-L	10-Jun-2022	17-Jun-2022	518994
F3-PAH	n/a	<50	50	mg/kg	EC600	-	16-Jun-2022	-
F4 (C34-C50)	----	<50	50	mg/kg	E601.SG-L	10-Jun-2022	17-Jun-2022	518994
F1-BTEX	----	<5.0	5	mg/kg	EC580	-	13-Jun-2022	-
hydrocarbons, total (C6-C50)	----	<80	80	mg/kg	EC581	-	13-Jun-2022	-
chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG-L	10-Jun-2022	17-Jun-2022	518994
Hydrocarbons Surrogates								
bromobenzotrifluoride, 2- (F2-F4 surr)	392-83-6	76.1	1.0	%	E601.SG-L	10-Jun-2022	17-Jun-2022	518994
dichlorotoluene, 3,4-	97-75-0	103	1.0	%	E581.F1	11-Jun-2022	13-Jun-2022	519775
Polycyclic Aromatic Hydrocarbons								
acenaphthene	83-32-9	<0.050	0.050	mg/kg	E642F	10-Jun-2022	15-Jun-2022	519579
acenaphthylene	208-96-8	<0.050	0.050	mg/kg	E642F	10-Jun-2022	15-Jun-2022	519579
anthracene	120-12-7	<0.050	0.050	mg/kg	E642F	10-Jun-2022	15-Jun-2022	519579
benz(a)anthracene	56-55-3	<0.050	0.050	mg/kg	E642F	10-Jun-2022	15-Jun-2022	519579
benzo(a)pyrene	50-32-8	<0.050	0.050	mg/kg	E642F	10-Jun-2022	15-Jun-2022	519579
benzo(b+j)fluoranthene	n/a	<0.050	0.050	mg/kg	E642F	10-Jun-2022	15-Jun-2022	519579
benzo(g,h,i)perylene	191-24-2	<0.050	0.050	mg/kg	E642F	10-Jun-2022	15-Jun-2022	519579
benzo(k)fluoranthene	207-08-9	<0.050	0.050	mg/kg	E642F	10-Jun-2022	15-Jun-2022	519579
chrysene	218-01-9	<0.050	0.050	mg/kg	E642F	10-Jun-2022	15-Jun-2022	519579
dibenz(a,h)anthracene	53-70-3	<0.050	0.050	mg/kg	E642F	10-Jun-2022	15-Jun-2022	519579
fluoranthene	206-44-0	<0.050	0.050	mg/kg	E642F	10-Jun-2022	15-Jun-2022	519579
fluorene	86-73-7	<0.050	0.050	mg/kg	E642F	10-Jun-2022	15-Jun-2022	519579
indeno(1,2,3-c,d)pyrene	193-39-5	<0.050	0.050	mg/kg	E642F	10-Jun-2022	15-Jun-2022	519579
methylnaphthalene, 1-	90-12-0	<0.030	0.030	mg/kg	E642F	10-Jun-2022	15-Jun-2022	519579
methylnaphthalene, 1+2-	----	<0.050	0.05	mg/kg	E642F	10-Jun-2022	15-Jun-2022	519579
methylnaphthalene, 2-	91-57-6	<0.030	0.030	mg/kg	E642F	10-Jun-2022	15-Jun-2022	519579
naphthalene	91-20-3	<0.010	0.010	mg/kg	E642F	10-Jun-2022	15-Jun-2022	519579
phenanthrene	85-01-8	<0.050	0.050	mg/kg	E642F	10-Jun-2022	15-Jun-2022	519579
pyrene	129-00-0	<0.050	0.050	mg/kg	E642F	10-Jun-2022	15-Jun-2022	519579
Polycyclic Aromatic Hydrocarbons Surrogates								
fluorobiphenyl, 2-	321-60-8	78.7	0.1	%	E642F	10-Jun-2022	15-Jun-2022	519579
terphenyl-d14, p-	1718-51-0	73.7	0.1	%	E642F	10-Jun-2022	15-Jun-2022	519579

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

WT2205302-003

Sub-Matrix:**Soil** *Client sample ID:* S-12581540-220606-JB-MW1-22-3.0 TO 3.3

(Matrix: **Soil/Solid**) *Client sampling date / time:* 06-Jun-2022 16:05

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot

Analytical Results

WT2205302-003

Sub-Matrix: **Soil**
(Matrix: **Soil/Solid**)

Client sample ID: S-12581540-220606-JB-MW1-22-3.0 TO 3.3
Client sampling date / time: 06-Jun-2022 16:05

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Physical Tests								
moisture	----	7.07	0.25	%	E144	-	10-Jun-2022	519031
Volatile Organic Compounds								
acetone	67-64-1	<0.50	0.50	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
benzene	71-43-2	0.0052	0.0050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
bromodichloromethane	75-27-4	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
bromoform	75-25-2	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
bromomethane	74-83-9	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
carbon tetrachloride	56-23-5	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
chlorobenzene	108-90-7	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
chloroform	67-66-3	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dibromochloromethane	124-48-1	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dibromoethane, 1,2-	106-93-4	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichlorobenzene, 1,2-	95-50-1	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichlorobenzene, 1,3-	541-73-1	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichlorobenzene, 1,4-	106-46-7	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichlorodifluoromethane	75-71-8	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichloroethane, 1,1-	75-34-3	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichloroethane, 1,2-	107-06-2	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichloroethylene, 1,1-	75-35-4	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichloroethylene, cis-1,2-	156-59-2	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichloroethylene, trans-1,2-	156-60-5	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichloromethane	75-09-2	<0.045	0.045	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichloropropane, 1,2-	78-87-5	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichloropropylene, cis+trans-1,3-	542-75-6	<0.050	0.05	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichloropropylene, cis-1,3-	10061-01-5	<0.030	0.030	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichloropropylene, trans-1,3-	10061-02-6	<0.030	0.030	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
ethylbenzene	100-41-4	<0.015	0.015	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
hexane, n-	110-54-3	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
methyl ethyl ketone [MEK]	78-93-3	<0.50	0.50	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
methyl isobutyl ketone [MIBK]	108-10-1	<0.50	0.50	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
methyl-tert-butyl ether [MTBE]	1634-04-4	<0.040	0.040	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
styrene	100-42-5	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
tetrachloroethane, 1,1,1,2-	630-20-6	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
tetrachloroethane, 1,1,2,2-	79-34-5	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
tetrachloroethylene	127-18-4	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
toluene	108-88-3	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
trichloroethane, 1,1,1-	71-55-6	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
trichloroethane, 1,1,2-	79-00-5	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
trichloroethylene	79-01-6	<0.010	0.010	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
trichlorofluoromethane	75-69-4	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
vinyl chloride	75-01-4	<0.020	0.020	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
xylene, m+p-	179601-23-1	<0.030	0.030	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
xylene, o-	95-47-6	<0.030	0.030	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
xylenes, total	1330-20-7	<0.050	0.05	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
BTEX, total	----	<0.10	0.1	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
Volatile Organic Compounds Surrogates								
bromofluorobenzene, 4-	460-00-4	93.7	0.10	%	E611D	11-Jun-2022	13-Jun-2022	519774
difluorobenzene, 1,4-	540-36-3	98.7	0.10	%	E611D	11-Jun-2022	13-Jun-2022	519774

Analytical Results

WT2205302-003

Sub-Matrix:**Soil** *Client sample ID:* S-12581540-220606-JB-MW1-22-3.0 TO 3.3

(Matrix: **Soil/Solid**) *Client sampling date / time:* 06-Jun-2022 16:05

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Hydrocarbons								
F1 (C6-C10)	----	<5.0	5.0	mg/kg	E581.F1	11-Jun-2022	13-Jun-2022	519775
F2 (C10-C16)	----	<10	10	mg/kg	E601.SG-L	10-Jun-2022	17-Jun-2022	518994
F3 (C16-C34)	----	<50	50	mg/kg	E601.SG-L	10-Jun-2022	17-Jun-2022	518994
F4 (C34-C50)	----	<50	50	mg/kg	E601.SG-L	10-Jun-2022	17-Jun-2022	518994
F1-BTEX	----	<5.0	5	mg/kg	EC580	-	13-Jun-2022	-
hydrocarbons, total (C6-C50)	----	<80	80	mg/kg	EC581	-	13-Jun-2022	-
chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG-L	10-Jun-2022	17-Jun-2022	518994
Hydrocarbons Surrogates								
bromobenzotrifluoride, 2- (F2-F4 surr)	392-83-6	78.9	1.0	%	E601.SG-L	10-Jun-2022	17-Jun-2022	518994
dichlorotoluene, 3,4-	97-75-0	78.8	1.0	%	E581.F1	11-Jun-2022	13-Jun-2022	519775

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

WT2205302-004

Sub-Matrix:**Soil** *Client sample ID:* S-12581540-220606-JB-MW1-22-0.0 TO 0.6X

(Matrix: **Soil/Solid**) *Client sampling date / time:* 06-Jun-2022 15:15

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Physical Tests								
conductivity (1:2 leachate)	----	0.268	0.00500	mS/cm	E100-L	14-Jun-2022	14-Jun-2022	518750
moisture	----	7.00	0.25	%	E144	-	10-Jun-2022	518752
pH (1:2 soil:CaCl2-aq)	----	7.65	0.10	pH units	E108A	10-Jun-2022	10-Jun-2022	518550
Cyanides								
cyanide, weak acid dissociable	----	<0.050	0.050	mg/kg	E336A	10-Jun-2022	13-Jun-2022	518991
Saturated Paste Extractables								
calcium, soluble ion content	7440-70-2	36.1	0.50	mg/L	E484	14-Jun-2022	14-Jun-2022	518749
magnesium, soluble ion content	7439-95-4	1.29	0.50	mg/L	E484	14-Jun-2022	14-Jun-2022	518749
sodium, soluble ion content	17341-25-2	14.9	0.50	mg/L	E484	14-Jun-2022	14-Jun-2022	518749
sodium adsorption ratio [SAR]	----	0.66	0.10	-	E484	14-Jun-2022	14-Jun-2022	518749
Metals								
antimony	7440-36-0	1.58	0.10	mg/kg	E440	14-Jun-2022	14-Jun-2022	518748
arsenic	7440-38-2	4.78	0.10	mg/kg	E440	14-Jun-2022	14-Jun-2022	518748
barium	7440-39-3	60.3	0.50	mg/kg	E440	14-Jun-2022	14-Jun-2022	518748
beryllium	7440-41-7	0.22	0.10	mg/kg	E440	14-Jun-2022	14-Jun-2022	518748
boron	7440-42-8	8.0	5.0	mg/kg	E440	14-Jun-2022	14-Jun-2022	518748
boron, hot water soluble	7440-42-8	0.54 FR4.	0.20	mg/kg	E487	14-Jun-2022	14-Jun-2022	518751
cadmium	7440-43-9	0.288	0.020	mg/kg	E440	14-Jun-2022	14-Jun-2022	518748
chromium	7440-47-3	82.1	0.50	mg/kg	E440	14-Jun-2022	14-Jun-2022	518748
cobalt	7440-48-4	4.62	0.10	mg/kg	E440	14-Jun-2022	14-Jun-2022	518748
copper	7440-50-8	48.5	0.50	mg/kg	E440	14-Jun-2022	14-Jun-2022	518748
lead	7439-92-1	19.1	0.50	mg/kg	E440	14-Jun-2022	14-Jun-2022	518748
mercury	7439-97-6	0.0082	0.0050	mg/kg	E510	14-Jun-2022	14-Jun-2022	518747
molybdenum	7439-98-7	3.91	0.10	mg/kg	E440	14-Jun-2022	14-Jun-2022	518748
nickel	7440-02-0	15.6	0.50	mg/kg	E440	14-Jun-2022	14-Jun-2022	518748
selenium	7782-49-2	<0.20	0.20	mg/kg	E440	14-Jun-2022	14-Jun-2022	518748
silver	7440-22-4	<0.10	0.10	mg/kg	E440	14-Jun-2022	14-Jun-2022	518748

Analytical Results

WT2205302-004

Sub-Matrix:**Soil** (Matrix: **Soil/Solid**)

Client sample ID: S-12581540-220606-JB-MW1-22-0.0 TO 0.6X

Client sampling date / time: 06-Jun-2022 15:15

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Metals								
thallium	7440-28-0	0.288	0.050	mg/kg	E440	14-Jun-2022	14-Jun-2022	518748
uranium	7440-61-1	0.358	0.050	mg/kg	E440	14-Jun-2022	14-Jun-2022	518748
vanadium	7440-62-2	61.1	0.20	mg/kg	E440	14-Jun-2022	14-Jun-2022	518748
zinc	7440-66-6	134	2.0	mg/kg	E440	14-Jun-2022	14-Jun-2022	518748
Speciated Metals								
chromium, hexavalent [Cr VI]	18540-29-9	1.74	0.10	mg/kg	E532	10-Jun-2022	13-Jun-2022	518990

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

WT2205302-005

Sub-Matrix:**Soil** (Matrix: **Soil/Solid**)

Client sample ID: S-12581540-220606-JB-MW2-22-0.0 TO 0.6

Client sampling date / time: 06-Jun-2022 10:05

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Physical Tests								
conductivity (1:2 leachate)	----	0.138	0.00500	mS/cm	E100-L	14-Jun-2022	14-Jun-2022	518750
moisture	----	11.9	0.25	%	E144	-	10-Jun-2022	518752
pH (1:2 soil:CaCl2-aq)	----	11.1	0.10	pH units	E108A	10-Jun-2022	10-Jun-2022	518550
Cyanides								
cyanide, weak acid dissociable	----	<0.050	0.050	mg/kg	E336A	10-Jun-2022	13-Jun-2022	518991
Saturated Paste Extractables								
calcium, soluble ion content	7440-70-2	17.4	0.50	mg/L	E484	14-Jun-2022	14-Jun-2022	518749
magnesium, soluble ion content	7439-95-4	1.12	0.50	mg/L	E484	14-Jun-2022	14-Jun-2022	518749
sodium, soluble ion content	17341-25-2	5.80	0.50	mg/L	E484	14-Jun-2022	14-Jun-2022	518749
sodium adsorption ratio [SAR]	----	0.36	0.10	-	E484	14-Jun-2022	14-Jun-2022	518749
Metals								
antimony	7440-36-0	0.74	0.10	mg/kg	E440	14-Jun-2022	14-Jun-2022	518748
arsenic	7440-38-2	5.49	0.10	mg/kg	E440	14-Jun-2022	14-Jun-2022	518748
barium	7440-39-3	43.1	0.50	mg/kg	E440	14-Jun-2022	14-Jun-2022	518748
beryllium	7440-41-7	0.27	0.10	mg/kg	E440	14-Jun-2022	14-Jun-2022	518748
boron	7440-42-8	<5.0	5.0	mg/kg	E440	14-Jun-2022	14-Jun-2022	518748
boron, hot water soluble	7440-42-8	0.24	0.10	mg/kg	E487	14-Jun-2022	14-Jun-2022	518751
cadmium	7440-43-9	0.504	0.020	mg/kg	E440	14-Jun-2022	14-Jun-2022	518748
chromium	7440-47-3	16.9	0.50	mg/kg	E440	14-Jun-2022	14-Jun-2022	518748
cobalt	7440-48-4	4.33	0.10	mg/kg	E440	14-Jun-2022	14-Jun-2022	518748
copper	7440-50-8	27.4	0.50	mg/kg	E440	14-Jun-2022	14-Jun-2022	518748
lead	7439-92-1	59.9	0.50	mg/kg	E440	14-Jun-2022	14-Jun-2022	518748
mercury	7439-97-6	0.0382	0.0050	mg/kg	E510	14-Jun-2022	14-Jun-2022	518747
molybdenum	7439-98-7	1.08	0.10	mg/kg	E440	14-Jun-2022	14-Jun-2022	518748
nickel	7440-02-0	11.1	0.50	mg/kg	E440	14-Jun-2022	14-Jun-2022	518748
selenium	7782-49-2	<0.20	0.20	mg/kg	E440	14-Jun-2022	14-Jun-2022	518748
silver	7440-22-4	<0.10	0.10	mg/kg	E440	14-Jun-2022	14-Jun-2022	518748
thallium	7440-28-0	0.058	0.050	mg/kg	E440	14-Jun-2022	14-Jun-2022	518748
uranium	7440-61-1	0.434	0.050	mg/kg	E440	14-Jun-2022	14-Jun-2022	518748
vanadium	7440-62-2	19.5	0.20	mg/kg	E440	14-Jun-2022	14-Jun-2022	518748
zinc	7440-66-6	84.5	2.0	mg/kg	E440	14-Jun-2022	14-Jun-2022	518748

Analytical Results

WT2205302-005

Sub-Matrix: **Soil**
(Matrix: **Soil/Solid**)

Client sample ID: S-12581540-220606-JB-MW2-22-0.0 TO 0.6
Client sampling date / time: 06-Jun-2022 10:05

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Speciated Metals								
chromium, hexavalent [Cr VI]	18540-29-9	1.23	0.10	mg/kg	E532	10-Jun-2022	13-Jun-2022	518990
Volatile Organic Compounds								
acetone	67-64-1	<0.50	0.50	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
benzene	71-43-2	<0.0050	0.0050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
bromodichloromethane	75-27-4	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
bromoform	75-25-2	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
bromomethane	74-83-9	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
carbon tetrachloride	56-23-5	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
chlorobenzene	108-90-7	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
chloroform	67-66-3	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dibromochloromethane	124-48-1	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dibromoethane, 1,2-	106-93-4	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichlorobenzene, 1,2-	95-50-1	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichlorobenzene, 1,3-	541-73-1	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichlorobenzene, 1,4-	106-46-7	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichlorodifluoromethane	75-71-8	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichloroethane, 1,1-	75-34-3	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichloroethane, 1,2-	107-06-2	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichloroethylene, 1,1-	75-35-4	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichloroethylene, cis-1,2-	156-59-2	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichloroethylene, trans-1,2-	156-60-5	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichloromethane	75-09-2	<0.045	0.045	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichloropropane, 1,2-	78-87-5	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichloropropylene, cis+trans-1,3-	542-75-6	<0.050	0.05	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichloropropylene, cis-1,3-	10061-01-5	<0.030	0.030	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichloropropylene, trans-1,3-	10061-02-6	<0.030	0.030	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
ethylbenzene	100-41-4	<0.015	0.015	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
hexane, n-	110-54-3	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
methyl ethyl ketone [MEK]	78-93-3	<0.50	0.50	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
methyl isobutyl ketone [MIBK]	108-10-1	<0.50	0.50	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
methyl-tert-butyl ether [MTBE]	1634-04-4	<0.040	0.040	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
styrene	100-42-5	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
tetrachloroethane, 1,1,1,2-	630-20-6	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
tetrachloroethane, 1,1,2,2-	79-34-5	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
tetrachloroethylene	127-18-4	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
toluene	108-88-3	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
trichloroethane, 1,1,1-	71-55-6	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
trichloroethane, 1,1,2-	79-00-5	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
trichloroethylene	79-01-6	<0.010	0.010	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
trichlorofluoromethane	75-69-4	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
vinyl chloride	75-01-4	<0.020	0.020	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
xylene, m+p-	179601-23-1	<0.030	0.030	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
xylene, o-	95-47-6	<0.030	0.030	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
xylenes, total	1330-20-7	<0.050	0.05	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
BTEX, total	----	<0.10	0.1	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
Volatile Organic Compounds Surrogates								
bromofluorobenzene, 4-	460-00-4	96.8	0.10	%	E611D	11-Jun-2022	13-Jun-2022	519774
difluorobenzene, 1,4-	540-36-3	102	0.10	%	E611D	11-Jun-2022	13-Jun-2022	519774

Analytical Results

WT2205302-005

Sub-Matrix:**Soil** *Client sample ID:* S-12581540-220606-JB-MW2-22-0.0 TO 0.6

(Matrix: **Soil/Solid**) *Client sampling date / time:* 06-Jun-2022 10:05

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Hydrocarbons								
F1 (C6-C10)	----	<5.0	5.0	mg/kg	E581.F1	11-Jun-2022	13-Jun-2022	519775
F2 (C10-C16)	----	<10	10	mg/kg	E601.SG-L	10-Jun-2022	17-Jun-2022	518994
F2-naphthalene	----	<25	25	mg/kg	EC600	-	16-Jun-2022	-
F3 (C16-C34)	----	571	50	mg/kg	E601.SG-L	10-Jun-2022	17-Jun-2022	518994
F3-PAH	n/a	570	50	mg/kg	EC600	-	16-Jun-2022	-
F4 (C34-C50)	----	250	50	mg/kg	E601.SG-L	10-Jun-2022	17-Jun-2022	518994
F4G-sg	----	1170	250	mg/kg	E601.F4G-L	14-Jun-2022	17-Jun-2022	527694
F1-BTEX	----	<5.0	5	mg/kg	EC580	-	15-Jun-2022	-
hydrocarbons, total (C6-C50)	----	821	80	mg/kg	EC581	-	15-Jun-2022	-
chromatogram to baseline at nC50	n/a	NO	-	-	E601.SG-L	10-Jun-2022	17-Jun-2022	518994
Hydrocarbons Surrogates								
bromobenzotrifluoride, 2- (F2-F4 surr)	392-83-6	82.2	1.0	%	E601.SG-L	10-Jun-2022	17-Jun-2022	518994
dichlorotoluene, 3,4-	97-75-0	80.1	1.0	%	E581.F1	11-Jun-2022	13-Jun-2022	519775
Polycyclic Aromatic Hydrocarbons								
acenaphthene	83-32-9	<0.050	0.050	mg/kg	E642F	10-Jun-2022	15-Jun-2022	519579
acenaphthylene	208-96-8	<0.050	0.050	mg/kg	E642F	10-Jun-2022	15-Jun-2022	519579
anthracene	120-12-7	<0.050	0.050	mg/kg	E642F	10-Jun-2022	15-Jun-2022	519579
benz(a)anthracene	56-55-3	0.095	0.050	mg/kg	E642F	10-Jun-2022	15-Jun-2022	519579
benzo(a)pyrene	50-32-8	0.137	0.050	mg/kg	E642F	10-Jun-2022	15-Jun-2022	519579
benzo(b+j)fluoranthene	n/a	0.156	0.050	mg/kg	E642F	10-Jun-2022	15-Jun-2022	519579
benzo(g,h,i)perylene	191-24-2	0.105	0.050	mg/kg	E642F	10-Jun-2022	15-Jun-2022	519579
benzo(k)fluoranthene	207-08-9	0.066	0.050	mg/kg	E642F	10-Jun-2022	15-Jun-2022	519579
chrysene	218-01-9	0.103	0.050	mg/kg	E642F	10-Jun-2022	15-Jun-2022	519579
dibenz(a,h)anthracene	53-70-3	<0.050	0.050	mg/kg	E642F	10-Jun-2022	15-Jun-2022	519579
fluoranthene	206-44-0	0.180	0.050	mg/kg	E642F	10-Jun-2022	15-Jun-2022	519579
fluorene	86-73-7	<0.050	0.050	mg/kg	E642F	10-Jun-2022	15-Jun-2022	519579
indeno(1,2,3-c,d)pyrene	193-39-5	0.105	0.050	mg/kg	E642F	10-Jun-2022	15-Jun-2022	519579
methylnaphthalene, 1-	90-12-0	<0.030	0.030	mg/kg	E642F	10-Jun-2022	15-Jun-2022	519579
methylnaphthalene, 1+2-	----	<0.050	0.05	mg/kg	E642F	10-Jun-2022	15-Jun-2022	519579
methylnaphthalene, 2-	91-57-6	<0.030	0.030	mg/kg	E642F	10-Jun-2022	15-Jun-2022	519579
naphthalene	91-20-3	0.012	0.010	mg/kg	E642F	10-Jun-2022	15-Jun-2022	519579
phenanthrene	85-01-8	0.077	0.050	mg/kg	E642F	10-Jun-2022	15-Jun-2022	519579
pyrene	129-00-0	0.170	0.050	mg/kg	E642F	10-Jun-2022	15-Jun-2022	519579
Polycyclic Aromatic Hydrocarbons Surrogates								
fluorobiphenyl, 2-	321-60-8	79.5	0.1	%	E642F	10-Jun-2022	15-Jun-2022	519579
terphenyl-d14, p-	1718-51-0	94.6	0.1	%	E642F	10-Jun-2022	15-Jun-2022	519579

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

WT2205302-006

Sub-Matrix:**Soil** *Client sample ID:* S-12581540-220606-JB-MW2-22-0.7 TO 1.3

(Matrix: **Soil/Solid**) *Client sampling date / time:* 06-Jun-2022 10:10

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Physical Tests								
moisture	----	7.02	0.25	%	E144	-	10-Jun-2022	519031

Analytical Results

WT2205302-006

Sub-Matrix:**Soil** (Matrix: **Soil/Solid**)

Client sample ID: S-12581540-220606-JB-MW2-22-0.7 TO 1.3

Client sampling date / time: 06-Jun-2022 10:10

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Polychlorinated Biphenyls								
Aroclor 1016	12674-11-2	<0.010	0.010	mg/kg	E687	13-Jun-2022	15-Jun-2022	521102
Aroclor 1221	11104-28-2	<0.010	0.010	mg/kg	E687	13-Jun-2022	15-Jun-2022	521102
Aroclor 1232	11141-16-5	<0.010	0.010	mg/kg	E687	13-Jun-2022	15-Jun-2022	521102
Aroclor 1242	53469-21-9	<0.010	0.010	mg/kg	E687	13-Jun-2022	15-Jun-2022	521102
Aroclor 1248	12672-29-6	<0.010	0.010	mg/kg	E687	13-Jun-2022	15-Jun-2022	521102
Aroclor 1254	11097-69-1	<0.010	0.010	mg/kg	E687	13-Jun-2022	15-Jun-2022	521102
Aroclor 1260	11096-82-5	<0.010	0.010	mg/kg	E687	13-Jun-2022	15-Jun-2022	521102
Aroclor 1262	37324-23-5	<0.010	0.010	mg/kg	E687	13-Jun-2022	15-Jun-2022	521102
Aroclor 1268	11100-14-4	<0.010	0.010	mg/kg	E687	13-Jun-2022	15-Jun-2022	521102
polychlorinated biphenyls [PCBs], total	----	<0.030	0.030	mg/kg	E687	13-Jun-2022	15-Jun-2022	521102
Polychlorinated Biphenyls Surrogates								
fluorobiphenyl, 2-	321-60-8	86.3	0.1	%	E687	13-Jun-2022	15-Jun-2022	521102
terphenyl-d14, p-	1718-51-0	89.2	0.010	%	E687	13-Jun-2022	15-Jun-2022	521102

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

WT2205302-007

Sub-Matrix:**Soil** (Matrix: **Soil/Solid**)

Client sample ID: S-12581540-220606-JB-MW2-22-2.3 TO 2.5

Client sampling date / time: 06-Jun-2022 10:40

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Physical Tests								
moisture	----	8.84	0.25	%	E144	-	10-Jun-2022	519031
Volatile Organic Compounds								
acetone	67-64-1	<0.50	0.50	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
benzene	71-43-2	<0.0050	0.0050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
bromodichloromethane	75-27-4	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
bromoform	75-25-2	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
bromomethane	74-83-9	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
carbon tetrachloride	56-23-5	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
chlorobenzene	108-90-7	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
chloroform	67-66-3	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dibromochloromethane	124-48-1	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dibromoethane, 1,2-	106-93-4	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichlorobenzene, 1,2-	95-50-1	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichlorobenzene, 1,3-	541-73-1	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichlorobenzene, 1,4-	106-46-7	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichlorodifluoromethane	75-71-8	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichloroethane, 1,1-	75-34-3	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichloroethane, 1,2-	107-06-2	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichloroethylene, 1,1-	75-35-4	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichloroethylene, cis-1,2-	156-59-2	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichloroethylene, trans-1,2-	156-60-5	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichloromethane	75-09-2	<0.045	0.045	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichloropropane, 1,2-	78-87-5	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichloropropylene, cis+trans-1,3-	542-75-6	<0.050	0.05	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774

Analytical Results

WT2205302-007

Sub-Matrix: **Soil**
(Matrix: **Soil/Solid**)

Client sample ID: S-12581540-220606-JB-MW2-22-2.3 TO 2.5
Client sampling date / time: 06-Jun-2022 10:40

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
dichloropropylene, cis-1,3-	10061-01-5	<0.030	0.030	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichloropropylene, trans-1,3-	10061-02-6	<0.030	0.030	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
ethylbenzene	100-41-4	<0.015	0.015	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
hexane, n-	110-54-3	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
methyl ethyl ketone [MEK]	78-93-3	<0.50	0.50	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
methyl isobutyl ketone [MIBK]	108-10-1	<0.50	0.50	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
methyl-tert-butyl ether [MTBE]	1634-04-4	<0.040	0.040	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
styrene	100-42-5	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
tetrachloroethane, 1,1,1,2-	630-20-6	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
tetrachloroethane, 1,1,2,2-	79-34-5	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
tetrachloroethylene	127-18-4	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
toluene	108-88-3	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
trichloroethane, 1,1,1-	71-55-6	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
trichloroethane, 1,1,2-	79-00-5	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
trichloroethylene	79-01-6	<0.010	0.010	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
trichlorofluoromethane	75-69-4	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
vinyl chloride	75-01-4	<0.020	0.020	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
xylene, m+p-	179601-23-1	<0.030	0.030	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
xylene, o-	95-47-6	<0.030	0.030	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
xylenes, total	1330-20-7	<0.050	0.05	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
BTEX, total	----	<0.10	0.1	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
Volatile Organic Compounds Surrogates								
bromofluorobenzene, 4-	460-00-4	99.0	0.10	%	E611D	11-Jun-2022	13-Jun-2022	519774
difluorobenzene, 1,4-	540-36-3	103	0.10	%	E611D	11-Jun-2022	13-Jun-2022	519774
Hydrocarbons								
F1 (C6-C10)	----	<5.0	5.0	mg/kg	E581.F1	11-Jun-2022	13-Jun-2022	519775
F2 (C10-C16)	----	<10	10	mg/kg	E601.SG-L	10-Jun-2022	17-Jun-2022	518994
F3 (C16-C34)	----	<50	50	mg/kg	E601.SG-L	10-Jun-2022	17-Jun-2022	518994
F4 (C34-C50)	----	<50	50	mg/kg	E601.SG-L	10-Jun-2022	17-Jun-2022	518994
F1-BTEX	----	<5.0	5	mg/kg	EC580	-	13-Jun-2022	-
hydrocarbons, total (C6-C50)	----	<80	80	mg/kg	EC581	-	13-Jun-2022	-
chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG-L	10-Jun-2022	17-Jun-2022	518994
Hydrocarbons Surrogates								
bromobenzotrifluoride, 2- (F2-F4 surr)	392-83-6	82.6	1.0	%	E601.SG-L	10-Jun-2022	17-Jun-2022	518994
dichlorotoluene, 3,4-	97-75-0	96.3	1.0	%	E581.F1	11-Jun-2022	13-Jun-2022	519775

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

WT2205302-008

Sub-Matrix: **Soil**
(Matrix: **Soil/Solid**)

Client sample ID: S-12581540-220606-JB-MW3-22-0.0 TO 0.6
Client sampling date / time: 06-Jun-2022 12:50

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Physical Tests								
conductivity (1:2 leachate)	----	0.817	0.00500	mS/cm	E100-L	14-Jun-2022	14-Jun-2022	518750
moisture	----	8.71	0.25	%	E144	-	10-Jun-2022	518752

Analytical Results

WT2205302-008

Sub-Matrix: **Soil**
(Matrix: **Soil/Solid**)

Client sample ID: S-12581540-220606-JB-MW3-22-0.0 TO 0.6
Client sampling date / time: 06-Jun-2022 12:50

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Physical Tests								
pH (1:2 soil:CaCl2-aq)	----	7.82	0.10	pH units	E108A	10-Jun-2022	10-Jun-2022	518550
Cyanides								
cyanide, weak acid dissociable	----	<0.050	0.050	mg/kg	E336A	10-Jun-2022	13-Jun-2022	518991
Saturated Paste Extractables								
calcium, soluble ion content	7440-70-2	79.1	0.50	mg/L	E484	14-Jun-2022	14-Jun-2022	518749
magnesium, soluble ion content	7439-95-4	<0.50	0.50	mg/L	E484	14-Jun-2022	14-Jun-2022	518749
sodium, soluble ion content	17341-25-2	87.7	0.50	mg/L	E484	14-Jun-2022	14-Jun-2022	518749
sodium adsorption ratio [SAR]	----	2.72	0.10	-	E484	14-Jun-2022	14-Jun-2022	518749
Metals								
antimony	7440-36-0	0.39	0.10	mg/kg	E440	14-Jun-2022	14-Jun-2022	518748
arsenic	7440-38-2	4.50	0.10	mg/kg	E440	14-Jun-2022	14-Jun-2022	518748
barium	7440-39-3	89.6	0.50	mg/kg	E440	14-Jun-2022	14-Jun-2022	518748
beryllium	7440-41-7	0.29	0.10	mg/kg	E440	14-Jun-2022	14-Jun-2022	518748
boron	7440-42-8	14.8	5.0	mg/kg	E440	14-Jun-2022	14-Jun-2022	518748
boron, hot water soluble	7440-42-8	0.84	0.10	mg/kg	E487	14-Jun-2022	14-Jun-2022	518751
cadmium	7440-43-9	0.429	0.020	mg/kg	E440	14-Jun-2022	14-Jun-2022	518748
chromium	7440-47-3	85.0	0.50	mg/kg	E440	14-Jun-2022	14-Jun-2022	518748
cobalt	7440-48-4	4.07	0.10	mg/kg	E440	14-Jun-2022	14-Jun-2022	518748
copper	7440-50-8	27.2	0.50	mg/kg	E440	14-Jun-2022	14-Jun-2022	518748
lead	7439-92-1	26.5	0.50	mg/kg	E440	14-Jun-2022	14-Jun-2022	518748
mercury	7439-97-6	0.0149	0.0050	mg/kg	E510	14-Jun-2022	14-Jun-2022	518747
molybdenum	7439-98-7	1.87	0.10	mg/kg	E440	14-Jun-2022	14-Jun-2022	518748
nickel	7440-02-0	12.2	0.50	mg/kg	E440	14-Jun-2022	14-Jun-2022	518748
selenium	7782-49-2	<0.20	0.20	mg/kg	E440	14-Jun-2022	14-Jun-2022	518748
silver	7440-22-4	<0.10	0.10	mg/kg	E440	14-Jun-2022	14-Jun-2022	518748
thallium	7440-28-0	0.069	0.050	mg/kg	E440	14-Jun-2022	14-Jun-2022	518748
uranium	7440-61-1	0.484	0.050	mg/kg	E440	14-Jun-2022	14-Jun-2022	518748
vanadium	7440-62-2	58.1	0.20	mg/kg	E440	14-Jun-2022	14-Jun-2022	518748
zinc	7440-66-6	114	2.0	mg/kg	E440	14-Jun-2022	14-Jun-2022	518748
Speciated Metals								
chromium, hexavalent [Cr VI]	18540-29-9	2.68	0.10	mg/kg	E532	10-Jun-2022	13-Jun-2022	518990
Polychlorinated Biphenyls								
Aroclor 1016	12674-11-2	<0.010 DLM,	0.100	mg/kg	E687	13-Jun-2022	15-Jun-2022	521102
Aroclor 1221	11104-28-2	<0.010 DLM,	0.100	mg/kg	E687	13-Jun-2022	15-Jun-2022	521102
Aroclor 1232	11141-16-5	<0.010 DLM,	0.100	mg/kg	E687	13-Jun-2022	15-Jun-2022	521102
Aroclor 1242	53469-21-9	<0.010 DLM,	0.100	mg/kg	E687	13-Jun-2022	15-Jun-2022	521102
Aroclor 1248	12672-29-6	<0.010 DLM,	0.100	mg/kg	E687	13-Jun-2022	15-Jun-2022	521102
Aroclor 1254	11097-69-1	<0.010 DLM,	0.100	mg/kg	E687	13-Jun-2022	15-Jun-2022	521102
Aroclor 1260	11096-82-5	<0.010 DLM,	0.100	mg/kg	E687	13-Jun-2022	15-Jun-2022	521102
Aroclor 1262	37324-23-5	<0.010 DLM,	0.100	mg/kg	E687	13-Jun-2022	15-Jun-2022	521102
Aroclor 1268	11100-14-4	<0.010 DLM,	0.100	mg/kg	E687	13-Jun-2022	15-Jun-2022	521102
polychlorinated biphenyls [PCBs], total	----	<0.030 DLM,	0.300	mg/kg	E687	13-Jun-2022	15-Jun-2022	521102
Polychlorinated Biphenyls Surrogates								
fluorobiphenyl, 2-	321-60-8	68.1	0.1	%	E687	13-Jun-2022	15-Jun-2022	521102
terphenyl-d14, p-	1718-51-0	75.3	0.010	%	E687	13-Jun-2022	15-Jun-2022	521102

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

WT2205302-009

Sub-Matrix: **Soil**
(Matrix: **Soil/Solid**)

Client sample ID: S-12581540-220606-JB-MW3-22-0.7 TO 1.3
Client sampling date / time: 06-Jun-2022 13:00

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Physical Tests								
moisture	----	18.8	0.25	%	E144	-	10-Jun-2022	519031
Volatile Organic Compounds								
acetone	67-64-1	<0.50	0.50	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
benzene	71-43-2	<0.0050	0.0050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
bromodichloromethane	75-27-4	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
bromoform	75-25-2	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
bromomethane	74-83-9	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
carbon tetrachloride	56-23-5	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
chlorobenzene	108-90-7	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
chloroform	67-66-3	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dibromochloromethane	124-48-1	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dibromoethane, 1,2-	106-93-4	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichlorobenzene, 1,2-	95-50-1	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichlorobenzene, 1,3-	541-73-1	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichlorobenzene, 1,4-	106-46-7	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichlorodifluoromethane	75-71-8	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichloroethane, 1,1-	75-34-3	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichloroethane, 1,2-	107-06-2	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichloroethylene, 1,1-	75-35-4	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichloroethylene, cis-1,2-	156-59-2	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichloroethylene, trans-1,2-	156-60-5	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichloromethane	75-09-2	<0.045	0.045	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichloropropane, 1,2-	78-87-5	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichloropropylene, cis+trans-1,3-	542-75-6	<0.050	0.05	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichloropropylene, cis-1,3-	10061-01-5	<0.030	0.030	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichloropropylene, trans-1,3-	10061-02-6	<0.030	0.030	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
ethylbenzene	100-41-4	<0.015	0.015	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
hexane, n-	110-54-3	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
methyl ethyl ketone [MEK]	78-93-3	<0.50	0.50	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
methyl isobutyl ketone [MIBK]	108-10-1	<0.50	0.50	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
methyl-tert-butyl ether [MTBE]	1634-04-4	<0.040	0.040	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
styrene	100-42-5	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
tetrachloroethane, 1,1,1,2-	630-20-6	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
tetrachloroethane, 1,1,2,2-	79-34-5	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
tetrachloroethylene	127-18-4	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
toluene	108-88-3	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
trichloroethane, 1,1,1-	71-55-6	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
trichloroethane, 1,1,2-	79-00-5	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
trichloroethylene	79-01-6	<0.010	0.010	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
trichlorofluoromethane	75-69-4	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
vinyl chloride	75-01-4	<0.020	0.020	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
xylene, m+p-	179601-23-1	<0.030	0.030	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
xylene, o-	95-47-6	<0.030	0.030	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
xylenes, total	1330-20-7	<0.050	0.05	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
BTEX, total	----	<0.10	0.1	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
Volatile Organic Compounds Surrogates								
bromofluorobenzene, 4-	460-00-4	95.1	0.10	%	E611D	11-Jun-2022	13-Jun-2022	519774
difluorobenzene, 1,4-	540-36-3	99.6	0.10	%	E611D	11-Jun-2022	13-Jun-2022	519774

Analytical Results

WT2205302-009

Sub-Matrix: **Soil** (Matrix: **Soil/Solid**)

Client sample ID: S-12581540-220606-JB-MW3-22-0.7 TO 1.3

Client sampling date / time: 06-Jun-2022 13:00

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Hydrocarbons								
F1 (C6-C10)	----	<5.0	5.0	mg/kg	E581.F1	11-Jun-2022	13-Jun-2022	519775
F2 (C10-C16)	----	<10	10	mg/kg	E601.SG-L	10-Jun-2022	17-Jun-2022	518994
F2-naphthalene	----	<25	25	mg/kg	EC600	-	16-Jun-2022	-
F3 (C16-C34)	----	157	50	mg/kg	E601.SG-L	10-Jun-2022	17-Jun-2022	518994
F3-PAH	n/a	157	50	mg/kg	EC600	-	16-Jun-2022	-
F4 (C34-C50)	----	340	50	mg/kg	E601.SG-L	10-Jun-2022	17-Jun-2022	518994
F4G-sg	----	920	250	mg/kg	E601.F4G-L	14-Jun-2022	17-Jun-2022	527694
F1-BTEX	----	<5.0	5	mg/kg	EC580	-	13-Jun-2022	-
hydrocarbons, total (C6-C50)	----	497	80	mg/kg	EC581	-	13-Jun-2022	-
chromatogram to baseline at nC50	n/a	NO	-	-	E601.SG-L	10-Jun-2022	17-Jun-2022	518994
Hydrocarbons Surrogates								
bromobenzotrifluoride, 2- (F2-F4 surr)	392-83-6	79.6	1.0	%	E601.SG-L	10-Jun-2022	17-Jun-2022	518994
dichlorotoluene, 3,4-	97-75-0	91.6	1.0	%	E581.F1	11-Jun-2022	13-Jun-2022	519775
Polycyclic Aromatic Hydrocarbons								
acenaphthene	83-32-9	<0.050	0.050	mg/kg	E642F	10-Jun-2022	15-Jun-2022	519579
acenaphthylene	208-96-8	<0.050	0.050	mg/kg	E642F	10-Jun-2022	15-Jun-2022	519579
anthracene	120-12-7	<0.050	0.050	mg/kg	E642F	10-Jun-2022	15-Jun-2022	519579
benz(a)anthracene	56-55-3	<0.050	0.050	mg/kg	E642F	10-Jun-2022	15-Jun-2022	519579
benzo(a)pyrene	50-32-8	<0.050	0.050	mg/kg	E642F	10-Jun-2022	15-Jun-2022	519579
benzo(b+j)fluoranthene	n/a	<0.050	0.050	mg/kg	E642F	10-Jun-2022	15-Jun-2022	519579
benzo(g,h,i)perylene	191-24-2	<0.050	0.050	mg/kg	E642F	10-Jun-2022	15-Jun-2022	519579
benzo(k)fluoranthene	207-08-9	<0.050	0.050	mg/kg	E642F	10-Jun-2022	15-Jun-2022	519579
chrysene	218-01-9	<0.050	0.050	mg/kg	E642F	10-Jun-2022	15-Jun-2022	519579
dibenz(a,h)anthracene	53-70-3	<0.050	0.050	mg/kg	E642F	10-Jun-2022	15-Jun-2022	519579
fluoranthene	206-44-0	0.054	0.050	mg/kg	E642F	10-Jun-2022	15-Jun-2022	519579
fluorene	86-73-7	<0.050	0.050	mg/kg	E642F	10-Jun-2022	15-Jun-2022	519579
indeno(1,2,3-c,d)pyrene	193-39-5	<0.050	0.050	mg/kg	E642F	10-Jun-2022	15-Jun-2022	519579
methylnaphthalene, 1-	90-12-0	<0.030	0.030	mg/kg	E642F	10-Jun-2022	15-Jun-2022	519579
methylnaphthalene, 1+2-	----	<0.050	0.05	mg/kg	E642F	10-Jun-2022	15-Jun-2022	519579
methylnaphthalene, 2-	91-57-6	<0.030	0.030	mg/kg	E642F	10-Jun-2022	15-Jun-2022	519579
naphthalene	91-20-3	<0.010	0.010	mg/kg	E642F	10-Jun-2022	15-Jun-2022	519579
phenanthrene	85-01-8	<0.050	0.050	mg/kg	E642F	10-Jun-2022	15-Jun-2022	519579
pyrene	129-00-0	<0.050	0.050	mg/kg	E642F	10-Jun-2022	15-Jun-2022	519579
Polycyclic Aromatic Hydrocarbons Surrogates								
fluorobiphenyl, 2-	321-60-8	76.6	0.1	%	E642F	10-Jun-2022	15-Jun-2022	519579
terphenyl-d14, p-	1718-51-0	77.6	0.1	%	E642F	10-Jun-2022	15-Jun-2022	519579

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

WT2205302-010

Sub-Matrix: **Soil** (Matrix: **Soil/Solid**)

Client sample ID: S-12581540-220606-JB-MW3-22-2.3 TO 2.7

Client sampling date / time: 06-Jun-2022 13:25

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Physical Tests								
moisture	----	17.3	0.25	%	E144	-	10-Jun-2022	519031

Analytical Results

WT2205302-010

Sub-Matrix: **Soil**
(Matrix: **Soil/Solid**)

Client sample ID: S-12581540-220606-JB-MW3-22-2.3 TO 2.7
Client sampling date / time: 06-Jun-2022 13:25

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
acetone	67-64-1	<0.50	0.50	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
benzene	71-43-2	<0.0050	0.0050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
bromodichloromethane	75-27-4	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
bromoform	75-25-2	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
bromomethane	74-83-9	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
carbon tetrachloride	56-23-5	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
chlorobenzene	108-90-7	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
chloroform	67-66-3	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dibromochloromethane	124-48-1	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dibromoethane, 1,2-	106-93-4	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichlorobenzene, 1,2-	95-50-1	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichlorobenzene, 1,3-	541-73-1	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichlorobenzene, 1,4-	106-46-7	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichlorodifluoromethane	75-71-8	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichloroethane, 1,1-	75-34-3	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichloroethane, 1,2-	107-06-2	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichloroethylene, 1,1-	75-35-4	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichloroethylene, cis-1,2-	156-59-2	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichloroethylene, trans-1,2-	156-60-5	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichloromethane	75-09-2	<0.045	0.045	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichloropropane, 1,2-	78-87-5	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichloropropylene, cis+trans-1,3-	542-75-6	<0.050	0.05	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichloropropylene, cis-1,3-	10061-01-5	<0.030	0.030	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichloropropylene, trans-1,3-	10061-02-6	<0.030	0.030	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
ethylbenzene	100-41-4	<0.015	0.015	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
hexane, n-	110-54-3	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
methyl ethyl ketone [MEK]	78-93-3	<0.50	0.50	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
methyl isobutyl ketone [MIBK]	108-10-1	<0.50	0.50	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
methyl-tert-butyl ether [MTBE]	1634-04-4	<0.040	0.040	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
styrene	100-42-5	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
tetrachloroethane, 1,1,1,2-	630-20-6	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
tetrachloroethane, 1,1,2,2-	79-34-5	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
tetrachloroethylene	127-18-4	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
toluene	108-88-3	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
trichloroethane, 1,1,1-	71-55-6	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
trichloroethane, 1,1,2-	79-00-5	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
trichloroethylene	79-01-6	<0.010	0.010	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
trichlorofluoromethane	75-69-4	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
vinyl chloride	75-01-4	<0.020	0.020	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
xylene, m+p-	179601-23-1	<0.030	0.030	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
xylene, o-	95-47-6	<0.030	0.030	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
xylenes, total	1330-20-7	<0.050	0.05	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
BTEX, total	----	<0.10	0.1	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
Volatile Organic Compounds Surrogates								
bromofluorobenzene, 4-	460-00-4	85.1	0.10	%	E611D	11-Jun-2022	13-Jun-2022	519774
difluorobenzene, 1,4-	540-36-3	93.1	0.10	%	E611D	11-Jun-2022	13-Jun-2022	519774
Hydrocarbons								
F1 (C6-C10)	----	<5.0	5.0	mg/kg	E581.F1	11-Jun-2022	13-Jun-2022	519775

Analytical Results

WT2205302-010

Sub-Matrix:**Soil**
(Matrix: **Soil/Solid)**

Client sample ID: S-12581540-220606-JB-MW3-22-2.3 TO 2.7
Client sampling date / time: 06-Jun-2022 13:25

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Hydrocarbons								
F2 (C10-C16)	----	<10	10	mg/kg	E601.SG-L	10-Jun-2022	17-Jun-2022	518994
F3 (C16-C34)	----	<50	50	mg/kg	E601.SG-L	10-Jun-2022	17-Jun-2022	518994
F4 (C34-C50)	----	<50	50	mg/kg	E601.SG-L	10-Jun-2022	17-Jun-2022	518994
F1-BTEX	----	<5.0	5	mg/kg	EC580	-	14-Jun-2022	-
hydrocarbons, total (C6-C50)	----	<80	80	mg/kg	EC581	-	14-Jun-2022	-
chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG-L	10-Jun-2022	17-Jun-2022	518994
Hydrocarbons Surrogates								
bromobenzotrifluoride, 2- (F2-F4 surr)	392-83-6	82.8	1.0	%	E601.SG-L	10-Jun-2022	17-Jun-2022	518994
dichlorotoluene, 3,4-	97-75-0	64.0	1.0	%	E581.F1	11-Jun-2022	13-Jun-2022	519775

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

WT2205302-011

Sub-Matrix:**Soil**
(Matrix: **Soil/Solid)**

Client sample ID: S-12581540-220606-JB-MW3-22-2.3 TO 2.7X
Client sampling date / time: 06-Jun-2022 13:25

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Physical Tests								
moisture	----	19.8	0.25	%	E144	-	10-Jun-2022	519031
Volatile Organic Compounds								
acetone	67-64-1	<0.50	0.50	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
benzene	71-43-2	<0.0050	0.0050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
bromodichloromethane	75-27-4	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
bromoform	75-25-2	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
bromomethane	74-83-9	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
carbon tetrachloride	56-23-5	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
chlorobenzene	108-90-7	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
chloroform	67-66-3	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dibromochloromethane	124-48-1	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dibromoethane, 1,2-	106-93-4	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichlorobenzene, 1,2-	95-50-1	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichlorobenzene, 1,3-	541-73-1	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichlorobenzene, 1,4-	106-46-7	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichlorodifluoromethane	75-71-8	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichloroethane, 1,1-	75-34-3	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichloroethane, 1,2-	107-06-2	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichloroethylene, 1,1-	75-35-4	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichloroethylene, cis-1,2-	156-59-2	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichloroethylene, trans-1,2-	156-60-5	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichloromethane	75-09-2	<0.045	0.045	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichloropropane, 1,2-	78-87-5	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichloropropylene, cis+trans-1,3-	542-75-6	<0.050	0.05	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichloropropylene, cis-1,3-	10061-01-5	<0.030	0.030	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichloropropylene, trans-1,3-	10061-02-6	<0.030	0.030	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
ethylbenzene	100-41-4	<0.015	0.015	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
hexane, n-	110-54-3	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774

Analytical Results

WT2205302-011

Sub-Matrix:**Soil**
(Matrix: **Soil/Solid**)

Client sample ID: S-12581540-220606-JB-MW3-22-2.3 TO 2.7X
Client sampling date / time: 06-Jun-2022 13:25

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
methyl ethyl ketone [MEK]	78-93-3	<0.50	0.50	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
methyl isobutyl ketone [MIBK]	108-10-1	<0.50	0.50	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
methyl-tert-butyl ether [MTBE]	1634-04-4	<0.040	0.040	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
styrene	100-42-5	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
tetrachloroethane, 1,1,1,2-	630-20-6	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
tetrachloroethane, 1,1,2,2-	79-34-5	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
tetrachloroethylene	127-18-4	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
toluene	108-88-3	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
trichloroethane, 1,1,1-	71-55-6	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
trichloroethane, 1,1,2-	79-00-5	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
trichloroethylene	79-01-6	<0.010	0.010	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
trichlorofluoromethane	75-69-4	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
vinyl chloride	75-01-4	<0.020	0.020	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
xylene, m+p-	179601-23-1	<0.030	0.030	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
xylene, o-	95-47-6	<0.030	0.030	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
xylenes, total	1330-20-7	<0.050	0.05	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
BTEX, total	----	<0.10	0.1	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
Volatile Organic Compounds Surrogates								
bromofluorobenzene, 4-	460-00-4	91.8	0.10	%	E611D	11-Jun-2022	13-Jun-2022	519774
difluorobenzene, 1,4-	540-36-3	99.1	0.10	%	E611D	11-Jun-2022	13-Jun-2022	519774
Hydrocarbons								
F1 (C6-C10)	----	<5.0	5.0	mg/kg	E581.F1	11-Jun-2022	13-Jun-2022	519775
F2 (C10-C16)	----	<10	10	mg/kg	E601.SG-L	10-Jun-2022	17-Jun-2022	518994
F3 (C16-C34)	----	<50	50	mg/kg	E601.SG-L	10-Jun-2022	17-Jun-2022	518994
F4 (C34-C50)	----	<50	50	mg/kg	E601.SG-L	10-Jun-2022	17-Jun-2022	518994
F1-BTEX	----	<5.0	5	mg/kg	EC580	-	14-Jun-2022	-
hydrocarbons, total (C6-C50)	----	<80	80	mg/kg	EC581	-	14-Jun-2022	-
chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG-L	10-Jun-2022	17-Jun-2022	518994
Hydrocarbons Surrogates								
bromobenzotrifluoride, 2- (F2-F4 surr)	392-83-6	77.8	1.0	%	E601.SG-L	10-Jun-2022	17-Jun-2022	518994
dichlorotoluene, 3,4-	97-75-0	78.9	1.0	%	E581.F1	11-Jun-2022	13-Jun-2022	519775

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

WT2205302-012

Sub-Matrix:**Soil**
(Matrix: **Soil/Solid**)

Client sample ID: S-12581540-220606-JB-MW3-22-0.0 TO 0.6X
Client sampling date / time: 06-Jun-2022 12:50

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Physical Tests								
moisture	----	6.46	0.25	%	E144	-	10-Jun-2022	519031
Polychlorinated Biphenyls								
Aroclor 1016	12674-11-2	<0.010 DLM,	0.100	mg/kg	E687	13-Jun-2022	15-Jun-2022	521102
Aroclor 1221	11104-28-2	<0.010 DLM,	0.100	mg/kg	E687	13-Jun-2022	15-Jun-2022	521102
Aroclor 1232	11141-16-5	<0.010 DLM,	0.100	mg/kg	E687	13-Jun-2022	15-Jun-2022	521102
Aroclor 1242	53469-21-9	<0.010 DLM,	0.100	mg/kg	E687	13-Jun-2022	15-Jun-2022	521102

Analytical Results

WT2205302-012

Sub-Matrix:**Soil** (Matrix: **Soil/Solid**)

Client sample ID: S-12581540-220606-JB-MW3-22-0.0 TO 0.6X

Client sampling date / time: 06-Jun-2022 12:50

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Polychlorinated Biphenyls								
Aroclor 1248	12672-29-6	<0.010 DLM,	0.100	mg/kg	E687	13-Jun-2022	15-Jun-2022	521102
Aroclor 1254	11097-69-1	<0.010 DLM,	0.100	mg/kg	E687	13-Jun-2022	15-Jun-2022	521102
Aroclor 1260	11096-82-5	<0.010 DLM,	0.100	mg/kg	E687	13-Jun-2022	15-Jun-2022	521102
Aroclor 1262	37324-23-5	<0.010 DLM,	0.100	mg/kg	E687	13-Jun-2022	15-Jun-2022	521102
Aroclor 1268	11100-14-4	<0.010 DLM,	0.100	mg/kg	E687	13-Jun-2022	15-Jun-2022	521102
polychlorinated biphenyls [PCBs], total	----	<0.030 DLM,	0.300	mg/kg	E687	13-Jun-2022	15-Jun-2022	521102
Polychlorinated Biphenyls Surrogates								
fluorobiphenyl, 2-	321-60-8	68.5	0.1	%	E687	13-Jun-2022	15-Jun-2022	521102
terphenyl-d14, p-	1718-51-0	76.6	0.010	%	E687	13-Jun-2022	15-Jun-2022	521102

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

WT2205302-013

Sub-Matrix:**Soil** (Matrix: **Soil/Solid**)

Client sample ID: S-12581540-220606-JB-TRIP BLANK

Client sampling date / time: 06-Jun-2022 18:00

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Physical Tests								
moisture	----	<0.25	0.25	%	E144	-	10-Jun-2022	519031
Volatile Organic Compounds								
acetone	67-64-1	<0.50	0.50	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
benzene	71-43-2	<0.0050	0.0050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
bromodichloromethane	75-27-4	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
bromoform	75-25-2	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
bromomethane	74-83-9	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
carbon tetrachloride	56-23-5	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
chlorobenzene	108-90-7	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
chloroform	67-66-3	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dibromochloromethane	124-48-1	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dibromoethane, 1,2-	106-93-4	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichlorobenzene, 1,2-	95-50-1	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichlorobenzene, 1,3-	541-73-1	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichlorobenzene, 1,4-	106-46-7	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichlorodifluoromethane	75-71-8	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichloroethane, 1,1-	75-34-3	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichloroethane, 1,2-	107-06-2	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichloroethylene, 1,1-	75-35-4	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichloroethylene, cis-1,2-	156-59-2	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichloroethylene, trans-1,2-	156-60-5	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichloromethane	75-09-2	<0.045	0.045	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichloropropane, 1,2-	78-87-5	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichloropropylene, cis+trans-1,3-	542-75-6	<0.050	0.05	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichloropropylene, cis-1,3-	10061-01-5	<0.030	0.030	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
dichloropropylene, trans-1,3-	10061-02-6	<0.030	0.030	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
ethylbenzene	100-41-4	<0.015	0.015	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
hexane, n-	110-54-3	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774

Analytical Results

WT2205302-013

Sub-Matrix: **Soil**
(Matrix: **Soil/Solid**)

Client sample ID: S-12581540-220606-JB-TRIP BLANK
Client sampling date / time: 06-Jun-2022 18:00

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
methyl ethyl ketone [MEK]	78-93-3	<0.50	0.50	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
methyl isobutyl ketone [MIBK]	108-10-1	<0.50	0.50	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
methyl-tert-butyl ether [MTBE]	1634-04-4	<0.040	0.040	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
styrene	100-42-5	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
tetrachloroethane, 1,1,1,2-	630-20-6	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
tetrachloroethane, 1,1,2,2-	79-34-5	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
tetrachloroethylene	127-18-4	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
toluene	108-88-3	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
trichloroethane, 1,1,1-	71-55-6	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
trichloroethane, 1,1,2-	79-00-5	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
trichloroethylene	79-01-6	<0.010	0.010	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
trichlorofluoromethane	75-69-4	<0.050	0.050	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
vinyl chloride	75-01-4	<0.020	0.020	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
xylene, m+p-	179601-23-1	<0.030	0.030	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
xylene, o-	95-47-6	<0.030	0.030	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
xylenes, total	1330-20-7	<0.050	0.05	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
BTEX, total	----	<0.10	0.1	mg/kg	E611D	11-Jun-2022	13-Jun-2022	519774
Volatile Organic Compounds Surrogates								
bromofluorobenzene, 4-	460-00-4	98.3	0.10	%	E611D	11-Jun-2022	13-Jun-2022	519774
difluorobenzene, 1,4-	540-36-3	105	0.10	%	E611D	11-Jun-2022	13-Jun-2022	519774
Hydrocarbons								
F1 (C6-C10)	----	<5.0	5.0	mg/kg	E581.F1	11-Jun-2022	13-Jun-2022	519775
F1-BTEX	----	<5.0	5	mg/kg	EC580	-	14-Jun-2022	-
Hydrocarbons Surrogates								
dichlorotoluene, 3,4-	97-75-0	88.0	1.0	%	E581.F1	11-Jun-2022	13-Jun-2022	519775

Please refer to the General Comments section for an explanation of any qualifiers detected.

QUALITY CONTROL INTERPRETIVE REPORT

Work Order	: **WT2205302**	Page	: 1 of 17
Client	: **GHD Limited**	Laboratory	: Waterloo - Environmental
Contact	: Jennifer Balkwill	Account Manager	: Rick Hawthorne
Address	: 455 Phillip Street Waterloo ON Canada N2L 3X2	Address	: 60 Northland Road, Unit 1 Waterloo, Ontario Canada N2V 2B8
Telephone	: ----	Telephone	: +1 519 886 6910
Project	: 12581540	Date Samples Received	: 09-Jun-2022 15:49
PO	: 735-003274	Issue Date	: 20-Jun-2022 07:50
C-O-C number	: 20-951939		
Sampler	: CLIENT		
Site	: ----		
Quote number	: 12581540 - City of Mississauga		
No. of samples received	: 13		
No. of samples analysed	: 13		

This report is automatically generated by the ALS LIMS (Laboratory Information Management System) through evaluation of Quality Control (QC) results and other QA parameters associated with this submission, and is intended to facilitate rapid data validation by auditors or reviewers. The report highlights any exceptions and outliers to ALS Data Quality Objectives, provides holding time details and exceptions, summarizes QC sample frequencies, and lists applicable methodology references and summaries.

Key

Anonymous: Refers to samples which are not part of this work order, but which formed part of the QC process lot.
CAS Number: Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
DQO: Data Quality Objective.
LOR: Limit of Reporting (detection limit).
RPD: Relative Percent Difference.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Summary of Outliers

Outliers : Quality Control Samples

- No Method Blank value outliers occur.
- No Duplicate outliers occur.
- No Matrix Spike outliers occur.
- Laboratory Control Sample (LCS) outliers occur - please see following pages for full details.
- No Test sample Surrogate recovery outliers exist.

Outliers: Reference Material (RM) Samples

- No Reference Material (RM) Sample outliers occur.

Outliers : Analysis Holding Time Compliance (Breaches)

- No Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

- Quality Control Sample Frequency Outliers occur - please see following pages for full details.

Outliers : Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: **Soil/Solid**

Analyte Group	Laboratory sample ID	Client/Ref Sample ID	Analyte	CAS Number	Method	Result	Limits	Comment
Laboratory Control Sample (LCS) Recoveries								
Volatile Organic Compounds	QC-MRG2-5197740 02	----	bromoform	75-25-2	E611D	133 % MES	70.0-130%	Recovery greater than upper control limit

Result Qualifiers

Qualifier	*Description*
MES	*Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).*

Analysis Holding Time Compliance

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times, which are selected to meet known provincial and /or federal requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by organizations such as CCME, US EPA, APHA Standard Methods, ASTM, or Environment Canada (where available). Dates and holding times reported below represent the first dates of extraction or analysis. If subsequent tests or dilutions exceeded holding times, qualifiers are added (refer to COA).

If samples are identified below as having been analyzed or extracted outside of recommended holding times, measurement uncertainties may be increased, and this should be taken into consideration when interpreting results.

Where actual sampling date is not provided on the chain of custody, the date of receipt with time at 00:00 is used for calculation purposes.

Where only the sample date without time is provided on the chain of custody, the sampling date at 00:00 is used for calculation purposes.

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Cyanides : WAD Cyanide (0.01M NaOH Extraction)										
Glass soil jar/Teflon lined cap										
S-12581540-220606-JB-MW1-22-0.0 TO 0.6	E336A	06-Jun-2022	10-Jun-2022	14 days	4 days	✓	13-Jun-2022	14 days	3 days	✓
Cyanides : WAD Cyanide (0.01M NaOH Extraction)										
Glass soil jar/Teflon lined cap										
S-12581540-220606-JB-MW1-22-0.0 TO 0.6X	E336A	06-Jun-2022	10-Jun-2022	14 days	4 days	✓	13-Jun-2022	14 days	3 days	✓
Cyanides : WAD Cyanide (0.01M NaOH Extraction)										
Glass soil jar/Teflon lined cap										
S-12581540-220606-JB-MW2-22-0.0 TO 0.6	E336A	06-Jun-2022	10-Jun-2022	14 days	4 days	✓	13-Jun-2022	14 days	3 days	✓
Cyanides : WAD Cyanide (0.01M NaOH Extraction)										
Glass soil jar/Teflon lined cap										
S-12581540-220606-JB-MW3-22-0.0 TO 0.6	E336A	06-Jun-2022	10-Jun-2022	14 days	4 days	✓	13-Jun-2022	14 days	3 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial [ON MECP]										
S-12581540-220606-JB-MW1-22-1.5 TO 2.1	E581.F1	06-Jun-2022	11-Jun-2022	14 days	5 days	✓	13-Jun-2022	40 days	2 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial [ON MECP]										
S-12581540-220606-JB-MW1-22-3.0 TO 3.3	E581.F1	06-Jun-2022	11-Jun-2022	14 days	5 days	✓	13-Jun-2022	40 days	2 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial [ON MECP]										
S-12581540-220606-JB-MW2-22-0.0 TO 0.6	E581.F1	06-Jun-2022	11-Jun-2022	14 days	5 days	✓	13-Jun-2022	40 days	2 days	✓

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial [ON MECP] S-12581540-220606-JB-MW2-22-2.3 TO 2.5	E581.F1	06-Jun-2022	11-Jun-2022	14 days	5 days	✓	13-Jun-2022	40 days	2 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial [ON MECP] S-12581540-220606-JB-MW3-22-0.7 TO 1.3	E581.F1	06-Jun-2022	11-Jun-2022	14 days	5 days	✓	13-Jun-2022	40 days	2 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial [ON MECP] S-12581540-220606-JB-MW3-22-2.3 TO 2.7	E581.F1	06-Jun-2022	11-Jun-2022	14 days	5 days	✓	13-Jun-2022	40 days	2 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial [ON MECP] S-12581540-220606-JB-MW3-22-2.3 TO 2.7X	E581.F1	06-Jun-2022	11-Jun-2022	14 days	5 days	✓	13-Jun-2022	40 days	2 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial [ON MECP] S-12581540-220606-JB-TRIP BLANK	E581.F1	06-Jun-2022	11-Jun-2022	14 days	5 days	✓	13-Jun-2022	40 days	2 days	✓
Hydrocarbons : CCME PHCs - F4G by Gravimetry (Low Level)										
Glass soil jar/Teflon lined cap S-12581540-220606-JB-MW2-22-0.0 TO 0.6	E601.F4G-L	06-Jun-2022	14-Jun-2022	14 days	8 days	✓	17-Jun-2022	40 days	3 days	✓
Hydrocarbons : CCME PHCs - F4G by Gravimetry (Low Level)										
Glass soil jar/Teflon lined cap S-12581540-220606-JB-MW3-22-0.7 TO 1.3	E601.F4G-L	06-Jun-2022	14-Jun-2022	14 days	8 days	✓	17-Jun-2022	40 days	3 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID (Low Level)										
Glass soil jar/Teflon lined cap S-12581540-220606-JB-MW1-22-1.5 TO 2.1	E601.SG-L	06-Jun-2022	10-Jun-2022	14 days	4 days	✓	17-Jun-2022	40 days	7 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID (Low Level)										
Glass soil jar/Teflon lined cap S-12581540-220606-JB-MW1-22-3.0 TO 3.3	E601.SG-L	06-Jun-2022	10-Jun-2022	14 days	4 days	✓	17-Jun-2022	40 days	7 days	✓

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID (Low Level)										
Glass soil jar/Teflon lined cap										
S-12581540-220606-JB-MW2-22-0.0 TO 0.6	E601.SG-L	06-Jun-2022	10-Jun-2022	14 days	4 days	✓	17-Jun-2022	40 days	7 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID (Low Level)										
Glass soil jar/Teflon lined cap										
S-12581540-220606-JB-MW2-22-2.3 TO 2.5	E601.SG-L	06-Jun-2022	10-Jun-2022	14 days	4 days	✓	17-Jun-2022	40 days	7 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID (Low Level)										
Glass soil jar/Teflon lined cap										
S-12581540-220606-JB-MW3-22-0.7 TO 1.3	E601.SG-L	06-Jun-2022	10-Jun-2022	14 days	4 days	✓	17-Jun-2022	40 days	7 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID (Low Level)										
Glass soil jar/Teflon lined cap										
S-12581540-220606-JB-MW3-22-2.3 TO 2.7	E601.SG-L	06-Jun-2022	10-Jun-2022	14 days	4 days	✓	17-Jun-2022	40 days	7 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID (Low Level)										
Glass soil jar/Teflon lined cap										
S-12581540-220606-JB-MW3-22-2.3 TO 2.7X	E601.SG-L	06-Jun-2022	10-Jun-2022	14 days	4 days	✓	17-Jun-2022	40 days	7 days	✓
Metals : Boron-Hot Water Extractable by ICPOES										
Glass soil jar/Teflon lined cap										
S-12581540-220606-JB-MW1-22-0.0 TO 0.6	E487	06-Jun-2022	14-Jun-2022	180 days	8 days	✓	14-Jun-2022	180 days	0 days	✓
Metals : Boron-Hot Water Extractable by ICPOES										
Glass soil jar/Teflon lined cap										
S-12581540-220606-JB-MW1-22-0.0 TO 0.6X	E487	06-Jun-2022	14-Jun-2022	180 days	8 days	✓	14-Jun-2022	180 days	0 days	✓
Metals : Boron-Hot Water Extractable by ICPOES										
Glass soil jar/Teflon lined cap										
S-12581540-220606-JB-MW2-22-0.0 TO 0.6	E487	06-Jun-2022	14-Jun-2022	180 days	8 days	✓	14-Jun-2022	180 days	0 days	✓
Metals : Boron-Hot Water Extractable by ICPOES										
Glass soil jar/Teflon lined cap										
S-12581540-220606-JB-MW3-22-0.0 TO 0.6	E487	06-Jun-2022	14-Jun-2022	180 days	8 days	✓	14-Jun-2022	180 days	0 days	✓

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Metals : Mercury in Soil/Solid by CVAAS										
Glass soil jar/Teflon lined cap										
S-12581540-220606-JB-MW1-22-0.0 TO 0.6	E510	06-Jun-2022	14-Jun-2022	----	----		14-Jun-2022	28 days	8 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
Glass soil jar/Teflon lined cap										
S-12581540-220606-JB-MW1-22-0.0 TO 0.6X	E510	06-Jun-2022	14-Jun-2022	----	----		14-Jun-2022	28 days	8 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
Glass soil jar/Teflon lined cap										
S-12581540-220606-JB-MW2-22-0.0 TO 0.6	E510	06-Jun-2022	14-Jun-2022	----	----		14-Jun-2022	28 days	8 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
Glass soil jar/Teflon lined cap										
S-12581540-220606-JB-MW3-22-0.0 TO 0.6	E510	06-Jun-2022	14-Jun-2022	----	----		14-Jun-2022	28 days	8 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
S-12581540-220606-JB-MW1-22-0.0 TO 0.6	E440	06-Jun-2022	14-Jun-2022	----	----		14-Jun-2022	180 days	8 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
S-12581540-220606-JB-MW1-22-0.0 TO 0.6X	E440	06-Jun-2022	14-Jun-2022	----	----		14-Jun-2022	180 days	8 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
S-12581540-220606-JB-MW2-22-0.0 TO 0.6	E440	06-Jun-2022	14-Jun-2022	----	----		14-Jun-2022	180 days	8 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
S-12581540-220606-JB-MW3-22-0.0 TO 0.6	E440	06-Jun-2022	14-Jun-2022	----	----		14-Jun-2022	180 days	8 days	✓
Physical Tests : Conductivity in Soil (1:2 Soil:Water Extraction) (Low Level)										
Glass soil jar/Teflon lined cap										
S-12581540-220606-JB-MW1-22-0.0 TO 0.6	E100-L	06-Jun-2022	14-Jun-2022	----	----		14-Jun-2022	30 days	8 days	✓

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Physical Tests : Conductivity in Soil (1:2 Soil:Water Extraction) (Low Level)										
Glass soil jar/Teflon lined cap										
S-12581540-220606-JB-MW1-22-0.0 TO 0.6X	E100-L	06-Jun-2022	14-Jun-2022	----	----		14-Jun-2022	30 days	8 days	✓
Physical Tests : Conductivity in Soil (1:2 Soil:Water Extraction) (Low Level)										
Glass soil jar/Teflon lined cap										
S-12581540-220606-JB-MW2-22-0.0 TO 0.6	E100-L	06-Jun-2022	14-Jun-2022	----	----		14-Jun-2022	30 days	8 days	✓
Physical Tests : Conductivity in Soil (1:2 Soil:Water Extraction) (Low Level)										
Glass soil jar/Teflon lined cap										
S-12581540-220606-JB-MW3-22-0.0 TO 0.6	E100-L	06-Jun-2022	14-Jun-2022	----	----		14-Jun-2022	30 days	8 days	✓
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
S-12581540-220606-JB-MW1-22-0.0 TO 0.6	E144	06-Jun-2022	----	----	----		10-Jun-2022	----	----	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
S-12581540-220606-JB-MW1-22-0.0 TO 0.6X	E144	06-Jun-2022	----	----	----		10-Jun-2022	----	----	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
S-12581540-220606-JB-MW1-22-1.5 TO 2.1	E144	06-Jun-2022	----	----	----		10-Jun-2022	----	----	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
S-12581540-220606-JB-MW1-22-3.0 TO 3.3	E144	06-Jun-2022	----	----	----		10-Jun-2022	----	----	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
S-12581540-220606-JB-MW2-22-0.0 TO 0.6	E144	06-Jun-2022	----	----	----		10-Jun-2022	----	----	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
S-12581540-220606-JB-MW2-22-0.7 TO 1.3	E144	06-Jun-2022	----	----	----		10-Jun-2022	----	----	

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
S-12581540-220606-JB-MW2-22-2.3 TO 2.5	E144	06-Jun-2022	----	----	----		10-Jun-2022	----	----	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
S-12581540-220606-JB-MW3-22-0.0 TO 0.6	E144	06-Jun-2022	----	----	----		10-Jun-2022	----	----	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
S-12581540-220606-JB-MW3-22-0.0 TO 0.6X	E144	06-Jun-2022	----	----	----		10-Jun-2022	----	----	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
S-12581540-220606-JB-MW3-22-0.7 TO 1.3	E144	06-Jun-2022	----	----	----		10-Jun-2022	----	----	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
S-12581540-220606-JB-MW3-22-2.3 TO 2.7	E144	06-Jun-2022	----	----	----		10-Jun-2022	----	----	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
S-12581540-220606-JB-MW3-22-2.3 TO 2.7X	E144	06-Jun-2022	----	----	----		10-Jun-2022	----	----	
Physical Tests : Moisture Content by Gravimetry										
Glass soil methanol vial [ON MECP]										
S-12581540-220606-JB-TRIP BLANK	E144	06-Jun-2022	----	----	----		10-Jun-2022	----	----	
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received										
Glass soil jar/Teflon lined cap										
S-12581540-220606-JB-MW1-22-0.0 TO 0.6	E108A	06-Jun-2022	10-Jun-2022	----	----		10-Jun-2022	30 days	4 days	✓
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received										
Glass soil jar/Teflon lined cap										
S-12581540-220606-JB-MW1-22-0.0 TO 0.6X	E108A	06-Jun-2022	10-Jun-2022	----	----		10-Jun-2022	30 days	4 days	✓

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received										
Glass soil jar/Teflon lined cap										
S-12581540-220606-JB-MW2-22-0.0 TO 0.6	E108A	06-Jun-2022	10-Jun-2022	----	----		10-Jun-2022	30 days	4 days	✓
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received										
Glass soil jar/Teflon lined cap										
S-12581540-220606-JB-MW3-22-0.0 TO 0.6	E108A	06-Jun-2022	10-Jun-2022	----	----		10-Jun-2022	30 days	4 days	✓
Polychlorinated Biphenyls : PCB Aroclors by GC-MS										
Glass soil jar/Teflon lined cap										
S-12581540-220606-JB-MW1-22-0.0 TO 0.6	E687	06-Jun-2022	13-Jun-2022	----	----		15-Jun-2022	40 days	2 days	✓
Polychlorinated Biphenyls : PCB Aroclors by GC-MS										
Glass soil jar/Teflon lined cap										
S-12581540-220606-JB-MW2-22-0.7 TO 1.3	E687	06-Jun-2022	13-Jun-2022	----	----		15-Jun-2022	40 days	2 days	✓
Polychlorinated Biphenyls : PCB Aroclors by GC-MS										
Glass soil jar/Teflon lined cap										
S-12581540-220606-JB-MW3-22-0.0 TO 0.6	E687	06-Jun-2022	13-Jun-2022	----	----		15-Jun-2022	40 days	2 days	✓
Polychlorinated Biphenyls : PCB Aroclors by GC-MS										
Glass soil jar/Teflon lined cap										
S-12581540-220606-JB-MW3-22-0.0 TO 0.6X	E687	06-Jun-2022	13-Jun-2022	----	----		15-Jun-2022	40 days	2 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by MeOH:Tol GC-MS										
Glass soil jar/Teflon lined cap										
S-12581540-220606-JB-MW1-22-1.5 TO 2.1	E642F	06-Jun-2022	10-Jun-2022	14 days	4 days	✓	15-Jun-2022	40 days	4 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by MeOH:Tol GC-MS										
Glass soil jar/Teflon lined cap										
S-12581540-220606-JB-MW2-22-0.0 TO 0.6	E642F	06-Jun-2022	10-Jun-2022	14 days	4 days	✓	15-Jun-2022	40 days	4 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by MeOH:Tol GC-MS										
Glass soil jar/Teflon lined cap										
S-12581540-220606-JB-MW3-22-0.7 TO 1.3	E642F	06-Jun-2022	10-Jun-2022	14 days	4 days	✓	15-Jun-2022	40 days	4 days	✓

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Saturated Paste Extractables : Sodium Adsorption Ratio (SAR) - 1:2 Soil:Water (Dry)										
Glass soil jar/Teflon lined cap										
S-12581540-220606-JB-MW1-22-0.0 TO 0.6	E484	06-Jun-2022	14-Jun-2022	180 days	8 days	✓	14-Jun-2022	180 days	0 days	✓
Saturated Paste Extractables : Sodium Adsorption Ratio (SAR) - 1:2 Soil:Water (Dry)										
Glass soil jar/Teflon lined cap										
S-12581540-220606-JB-MW1-22-0.0 TO 0.6X	E484	06-Jun-2022	14-Jun-2022	180 days	8 days	✓	14-Jun-2022	180 days	0 days	✓
Saturated Paste Extractables : Sodium Adsorption Ratio (SAR) - 1:2 Soil:Water (Dry)										
Glass soil jar/Teflon lined cap										
S-12581540-220606-JB-MW2-22-0.0 TO 0.6	E484	06-Jun-2022	14-Jun-2022	180 days	8 days	✓	14-Jun-2022	180 days	0 days	✓
Saturated Paste Extractables : Sodium Adsorption Ratio (SAR) - 1:2 Soil:Water (Dry)										
Glass soil jar/Teflon lined cap										
S-12581540-220606-JB-MW3-22-0.0 TO 0.6	E484	06-Jun-2022	14-Jun-2022	180 days	8 days	✓	14-Jun-2022	180 days	0 days	✓
Speciated Metals : Hexavalent Chromium (Cr VI) by IC										
Glass soil jar/Teflon lined cap										
S-12581540-220606-JB-MW1-22-0.0 TO 0.6	E532	06-Jun-2022	10-Jun-2022	30 days	4 days	✓	13-Jun-2022	7 days	3 days	✓
Speciated Metals : Hexavalent Chromium (Cr VI) by IC										
Glass soil jar/Teflon lined cap										
S-12581540-220606-JB-MW1-22-0.0 TO 0.6X	E532	06-Jun-2022	10-Jun-2022	30 days	4 days	✓	13-Jun-2022	7 days	3 days	✓
Speciated Metals : Hexavalent Chromium (Cr VI) by IC										
Glass soil jar/Teflon lined cap										
S-12581540-220606-JB-MW2-22-0.0 TO 0.6	E532	06-Jun-2022	10-Jun-2022	30 days	4 days	✓	13-Jun-2022	7 days	3 days	✓
Speciated Metals : Hexavalent Chromium (Cr VI) by IC										
Glass soil jar/Teflon lined cap										
S-12581540-220606-JB-MW3-22-0.0 TO 0.6	E532	06-Jun-2022	10-Jun-2022	30 days	4 days	✓	13-Jun-2022	7 days	3 days	✓
Volatile Organic Compounds : VOCs (ON List) by Headspace GC-MS										
Glass soil methanol vial [ON MECP]										
S-12581540-220606-JB-MW1-22-1.5 TO 2.1	E611D	06-Jun-2022	11-Jun-2022	14 days	5 days	✓	13-Jun-2022	40 days	2 days	✓

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Volatile Organic Compounds : VOCs (ON List) by Headspace GC-MS										
Glass soil methanol vial [ON MECP] S-12581540-220606-JB-MW1-22-3.0 TO 3.3	E611D	06-Jun-2022	11-Jun-2022	14 days	5 days	✓	13-Jun-2022	40 days	2 days	✓
Volatile Organic Compounds : VOCs (ON List) by Headspace GC-MS										
Glass soil methanol vial [ON MECP] S-12581540-220606-JB-MW2-22-0.0 TO 0.6	E611D	06-Jun-2022	11-Jun-2022	14 days	5 days	✓	13-Jun-2022	40 days	2 days	✓
Volatile Organic Compounds : VOCs (ON List) by Headspace GC-MS										
Glass soil methanol vial [ON MECP] S-12581540-220606-JB-MW2-22-2.3 TO 2.5	E611D	06-Jun-2022	11-Jun-2022	14 days	5 days	✓	13-Jun-2022	40 days	2 days	✓
Volatile Organic Compounds : VOCs (ON List) by Headspace GC-MS										
Glass soil methanol vial [ON MECP] S-12581540-220606-JB-MW3-22-0.7 TO 1.3	E611D	06-Jun-2022	11-Jun-2022	14 days	5 days	✓	13-Jun-2022	40 days	2 days	✓
Volatile Organic Compounds : VOCs (ON List) by Headspace GC-MS										
Glass soil methanol vial [ON MECP] S-12581540-220606-JB-MW3-22-2.3 TO 2.7	E611D	06-Jun-2022	11-Jun-2022	14 days	5 days	✓	13-Jun-2022	40 days	2 days	✓
Volatile Organic Compounds : VOCs (ON List) by Headspace GC-MS										
Glass soil methanol vial [ON MECP] S-12581540-220606-JB-MW3-22-2.3 TO 2.7X	E611D	06-Jun-2022	11-Jun-2022	14 days	5 days	✓	13-Jun-2022	40 days	2 days	✓
Volatile Organic Compounds : VOCs (ON List) by Headspace GC-MS										
Glass soil methanol vial [ON MECP] S-12581540-220606-JB-TRIP BLANK	E611D	06-Jun-2022	11-Jun-2022	14 days	5 days	✓	13-Jun-2022	40 days	2 days	✓

Legend & Qualifier Definitions

Rec. HT: ALS recommended hold time (see units).

Quality Control Parameter Frequency Compliance

The following report summarizes the frequency of laboratory QC samples analyzed within the analytical batches (QC lots) in which the submitted samples were processed. The actual frequency should be greater than or equal to the expected frequency.

Matrix: **Soil/Solid**

Evaluation: × = QC frequency outside specification; ✓ = QC frequency within specification.

Quality Control Sample Type			Count		Frequency (%)		
Analytical Methods	*Method*	*QC Lot #*	*QC*	*Regular*	*Actual*	*Expected*	*Evaluation*
Laboratory Duplicates (DUP)							
Boron-Hot Water Extractable by ICPOES	E487	518751	1	9	11.1	5.0	✓
CCME PHC - F1 by Headspace GC-FID	E581.F1	519775	1	18	5.5	5.0	✓
CCME PHCs - F4G by Gravimetry (Low Level)	E601.F4G-L	527694	0	2	0.0	5.0	×
CCME PHCs - F2-F4 by GC-FID (Low Level)	E601.SG-L	518994	1	13	7.6	5.0	✓
Conductivity in Soil (1:2 Soil:Water Extraction) (Low Level)	E100-L	518750	1	8	12.5	5.0	✓
Hexavalent Chromium (Cr VI) by IC	E532	518990	1	9	11.1	5.0	✓
Mercury in Soil/Solid by CVAAS	E510	518747	1	8	12.5	5.0	✓
Metals in Soil/Solid by CRC ICPMS	E440	518748	1	8	12.5	5.0	✓
Moisture Content by Gravimetry	E144	518752	2	23	8.7	5.0	✓
PAHs by MeOH:Tol GC-MS	E642F	519579	1	20	5.0	5.0	✓
PCB Aroclors by GC-MS	E687	521102	1	8	12.5	5.0	✓
pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received	E108A	518550	1	12	8.3	5.0	✓
Sodium Adsorption Ratio (SAR) - 1:2 Soil:Water (Dry)	E484	518749	1	8	12.5	5.0	✓
VOCs (ON List) by Headspace GC-MS	E611D	519774	1	19	5.2	5.0	✓
WAD Cyanide (0.01M NaOH Extraction)	E336A	518991	1	8	12.5	5.0	✓
Laboratory Control Samples (LCS)							
Boron-Hot Water Extractable by ICPOES	E487	518751	2	9	22.2	10.0	✓
CCME PHC - F1 by Headspace GC-FID	E581.F1	519775	1	18	5.5	5.0	✓
CCME PHCs - F4G by Gravimetry (Low Level)	E601.F4G-L	527694	1	2	50.0	5.0	✓
CCME PHCs - F2-F4 by GC-FID (Low Level)	E601.SG-L	518994	1	13	7.6	5.0	✓
Conductivity in Soil (1:2 Soil:Water Extraction) (Low Level)	E100-L	518750	2	8	25.0	10.0	✓
Hexavalent Chromium (Cr VI) by IC	E532	518990	2	9	22.2	10.0	✓
Mercury in Soil/Solid by CVAAS	E510	518747	2	8	25.0	10.0	✓
Metals in Soil/Solid by CRC ICPMS	E440	518748	2	8	25.0	10.0	✓
Moisture Content by Gravimetry	E144	518752	2	23	8.7	5.0	✓
PAHs by MeOH:Tol GC-MS	E642F	519579	1	20	5.0	5.0	✓
PCB Aroclors by GC-MS	E687	521102	1	8	12.5	5.0	✓
pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received	E108A	518550	1	12	8.3	5.0	✓
Sodium Adsorption Ratio (SAR) - 1:2 Soil:Water (Dry)	E484	518749	2	8	25.0	10.0	✓
VOCs (ON List) by Headspace GC-MS	E611D	519774	1	19	5.2	5.0	✓
WAD Cyanide (0.01M NaOH Extraction)	E336A	518991	1	8	12.5	5.0	✓
Method Blanks (MB)							
Boron-Hot Water Extractable by ICPOES	E487	518751	1	9	11.1	5.0	✓
CCME PHC - F1 by Headspace GC-FID	E581.F1	519775	1	18	5.5	5.0	✓
CCME PHCs - F4G by Gravimetry (Low Level)	E601.F4G-L	527694	1	2	50.0	5.0	✓
CCME PHCs - F2-F4 by GC-FID (Low Level)	E601.SG-L	518994	1	13	7.6	5.0	✓
Conductivity in Soil (1:2 Soil:Water Extraction) (Low Level)	E100-L	518750	1	8	12.5	5.0	✓

Matrix: **Soil/Solid**

Evaluation: ✗ = *QC frequency outside specification*; ✓ = *QC frequency within specification.*

Quality Control Sample Type			Count		Frequency (%)		
Analytical Methods	*Method*	*QC Lot #*	*QC*	*Regular*	*Actual*	*Expected*	*Evaluation*
Method Blanks (MB) - Continued							
Hexavalent Chromium (Cr VI) by IC	E532	518990	1	9	11.1	5.0	✓
Mercury in Soil/Solid by CVAAS	E510	518747	1	8	12.5	5.0	✓
Metals in Soil/Solid by CRC ICPMS	E440	518748	1	8	12.5	5.0	✓
Moisture Content by Gravimetry	E144	518752	2	23	8.7	5.0	✓
PAHs by MeOH:Tol GC-MS	E642F	519579	1	20	5.0	5.0	✓
PCB Aroclors by GC-MS	E687	521102	1	8	12.5	5.0	✓
Sodium Adsorption Ratio (SAR) - 1:2 Soil:Water (Dry)	E484	518749	1	8	12.5	5.0	✓
VOCs (ON List) by Headspace GC-MS	E611D	519774	1	19	5.2	5.0	✓
WAD Cyanide (0.01M NaOH Extraction)	E336A	518991	1	8	12.5	5.0	✓
Matrix Spikes (MS)							
CCME PHC - F1 by Headspace GC-FID	E581.F1	519775	1	18	5.5	5.0	✓
CCME PHCs - F4G by Gravimetry (Low Level)	E601.F4G-L	527694	0	2	0.0	5.0	✗
CCME PHCs - F2-F4 by GC-FID (Low Level)	E601.SG-L	518994	1	13	7.6	5.0	✓
PAHs by MeOH:Tol GC-MS	E642F	519579	1	20	5.0	5.0	✓
PCB Aroclors by GC-MS	E687	521102	1	8	12.5	5.0	✓
VOCs (ON List) by Headspace GC-MS	E611D	519774	1	19	5.2	5.0	✓
WAD Cyanide (0.01M NaOH Extraction)	E336A	518991	1	8	12.5	5.0	✓

Methodology References and Summaries

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Reference methods may incorporate modifications to improve performance (indicated by "mod").

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Conductivity in Soil (1:2 Soil:Water Extraction) (Low Level)	E100-L Waterloo - Environmental	Soil/Solid	CSSS Ch. 15 (mod)/APHA 2510 (mod)	Conductivity, also known as Electrical Conductivity (EC) or Specific Conductance, is measured by immersion of a conductivity cell with platinum electrodes into a soil sample that has been added in a defined ratio of soil to deionized water, then shaken well and allowed to settle. Conductance is measured in the fluid that is observed in the upper layer.
pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received	E108A Waterloo - Environmental	Soil/Solid	MOEE E3137A	pH is determined by potentiometric measurement with a pH electrode, and is conducted at ambient laboratory temperature (normally 20 ± 5°C) and is carried out in accordance with procedures described in the Analytical Protocol (prescriptive method). A minimum 10g portion of the sample, as received, is extracted with 20mL of 0.01M calcium chloride solution by shaking for at least 30 minutes. The aqueous layer is separated from the soil by centrifuging, settling, or decanting and then analyzed using a pH meter and electrode.
Moisture Content by Gravimetry	E144 Waterloo - Environmental	Soil/Solid	CCME PHC in Soil - Tier 1	Moisture is measured gravimetrically by drying the sample at 105°C. Moisture content is calculated as the weight loss (due to water) divided by the wet weight of the sample, expressed as a percentage.
WAD Cyanide (0.01M NaOH Extraction)	E336A Waterloo - Environmental	Soil/Solid	APHA 4500-CN I (mod)	Weak Acid Dissociable (WAD) cyanide is determined after extraction by Continuous Flow Analyzer (CFA) with in-line distillation followed by colourmetric analysis.
Metals in Soil/Solid by CRC ICPMS	E440 Waterloo - Environmental	Soil/Solid	EPA 6020B (mod)	This method is intended to liberate metals that may be environmentally available. Samples are dried, then sieved through a 2 mm sieve, and digested with HNO3 and HCl. Dependent on sample matrix, some metals may be only partially recovered, including Al, Ba, Be, Cr, Sr, Ti, Tl, V, W, and Zr. Silicate minerals are not solubilized. Volatile forms of sulfur (including sulfide) may not be captured, as they may be lost during sampling, storage, or digestion. This method does not adequately recover elemental sulfur, and is unsuitable for assessment of elemental sulfur standards or guidelines. Analysis is by Collision/Reaction Cell ICPMS.
Sodium Adsorption Ratio (SAR) - 1:2 Soil:Water (Dry)	E484 Waterloo - Environmental	Soil/Solid	SW846 6010C	A dried, disaggregated solid sample is extracted with deionized water, the aqueous extract is separated from the solid, acidified and then analyzed using a ICP/OES. The concentrations of Na, Ca and Mg are reported as per CALA requirements for calculated parameters. These individual parameters are not for comparison to any guideline.
Boron-Hot Water Extractable by ICPOES	E487 Waterloo - Environmental	Soil/Solid	HW EXTR, EPA 6010B	A dried solid sample is extracted with calcium chloride, the sample undergoes a heating process. After cooling the sample is filtered and analyzed by ICP/OES. Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Mercury in Soil/Solid by CVAAS	E510 Waterloo - Environmental	Soil/Solid	EPA 200.2/1631 Appendix (mod)	Samples are dried, then sieved through a 2 mm sieve, and digested with HNO_3 and HCl, followed by CVAAS analysis.
Hexavalent Chromium (Cr VI) by IC	E532 Waterloo - Environmental	Soil/Solid	APHA 3500-CR C	Instrumental analysis is performed by ion chromatography with UV detection.
CCME PHC - F1 by Headspace GC-FID	E581.F1 Waterloo - Environmental	Soil/Solid	CCME PHC in Soil - Tier 1	CCME Fraction 1 (F1) is analyzed by static headspace GC-FID. Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler, causing VOCs to partition between the aqueous phase and the headspace in accordance with Henry's law.
CCME PHCs - F4G by Gravimetry (Low Level)	E601.F4G-L Waterloo - Environmental	Soil/Solid	CCME PHC in Soil - Tier 1	A portion of the silica gel treated sample extract is filtered and dried at 105°C and the mass of the residual gravimetric heavy hydrocarbons (F4G) is determined gravimetrically.
CCME PHCs - F2-F4 by GC-FID (Low Level)	E601.SG-L Waterloo - Environmental	Soil/Solid	CCME PHC in Soil - Tier 1	Sample extracts are subjected to in-situ silica gel treatment prior to analysis by GC-FID for CCME hydrocarbon fractions (F2-F4).
VOCs (ON List) by Headspace GC-MS	E611D Waterloo - Environmental	Soil/Solid	EPA 8260D (mod)	Volatile Organic Compounds (VOCs) are analyzed by static headspace GC-MS. Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler, causing VOCs to partition between the aqueous phase and the headspace in accordance with Henry's law.
PAHs by MeOH:Tol GC-MS	E642F Waterloo - Environmental	Soil/Solid	EPA 8270E (mod)	Polycyclic Aromatic Hydrocarbons (PAHs) are extracted with methanol/toluene and analyzed by GC-MS. If reported, IACR (index of additive cancer risk, unitless) and B(a)P toxic potency equivalent (in soil concentration units) are calculated as per CCME PAH Soil Quality Guidelines fact sheet (2010) or ABT1.
PCB Aroclors by GC-MS	E687 Waterloo - Environmental	Soil/Solid	EPA 8270E (mod)	PCB Aroclors are analyzed by GC-MS
F1-BTEX	EC580 Waterloo - Environmental	Soil/Solid	CCME PHC in Soil - Tier 1	F1-BTEX is calculated as follows: F1-BTEX = F1 (C6-C10) minus benzene, toluene, ethylbenzene and xylenes (BTEX).
Sum F1 to F4 (C6-C50)	EC581 Waterloo - Environmental	Soil/Solid	CCME PHC in Soil - Tier 1	Hydrocarbons, total (C6-C50) is the sum of CCME Fractions F1(C6-C10), F2(C10-C16), F3(C16-C34), and F4(C34-C50). F4G-sg is not used within this calculation due to overlap with other fractions.
F2 to F3 minus PAH	EC600 Waterloo - Environmental	Soil/Solid	CCME PHC in Soil - Tier 1	F2-PAH = CCME Fraction 2 (C10-C16) minus Naphthalene F3-PAH = CCME Fraction 3 (C16-C34) minus select Polycyclic Aromatic Hydrocarbons (PAH) as per CCME Soil Tier 1

Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions

Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Leach 1:2 Soil:Water for pH/EC	EP108 Waterloo - Environmental	Soil/Solid	BC WLAP METHOD: PH, ELECTROMETRIC, SOIL	The procedure involves mixing the dried (at <60°C) and sieved (No. 10 / 2mm) sample with deionized/distilled water at a 1:2 ratio of sediment to water.
Leach 1:2 Soil : 0.01CaCl2 - As Received for pH	EP108A Waterloo - Environmental	Soil/Solid	MOEE E3137A	A minimum 10g portion of the sample, as received, is extracted with 20mL of 0.01M calcium chloride solution by shaking for at least 30 minutes. The aqueous layer is separated from the soil by centrifuging, settling or decanting and then analyzed using a pH meter and electrode.
Cyanide Extraction for CFA (0.01M NaOH)	EP333A Waterloo - Environmental	Soil/Solid	ON MECP E3015 (mod)	Extraction for various cyanide analysis is by rotary extraction of the soil with 0.01M Sodium Hydroxide.
Digestion for Metals and Mercury	EP440 Waterloo - Environmental	Soil/Solid	EPA 200.2 (mod)	Samples are dried, then sieved through a 2 mm sieve, and digested with HNO3 and HCl. This method is intended to liberate metals that may be environmentally available.
Boron-Hot Water Extractable	EP487 Waterloo - Environmental	Soil/Solid	HW EXTR, EPA 6010B	A dried solid sample is extracted with weak calcium chloride, the sample undergoes a heating process. After cooling the sample is filtered and analyzed by ICP/OES. Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011)
Preparation of Hexavalent Chromium (Cr VI) for IC	EP532 Waterloo - Environmental	Soil/Solid	EPA 3060A	Field moist samples are digested with a sodium hydroxide/sodium carbonate solution as described in EPA 3060A.
VOCs Methanol Extraction for Headspace Analysis	EP581 Waterloo - Environmental	Soil/Solid	EPA 5035A (mod)	VOCs in samples are extracted with methanol. Extracts are then prepared in headspace vials and are heated and agitated on the headspace autosampler, causing VOCs to partition between the aqueous phase and the headspace in accordance with Henry's law.
PHCs and PAHs Hexane-Acetone Tumbler Extraction	EP601 Waterloo - Environmental	Soil/Solid	CCME PHC in Soil - Tier 1 (mod)	Samples are subsampled and Petroleum Hydrocarbons (PHC) and PAHs are extracted with 1:1 hexane:acetone using a rotary extractor.
Pesticides, PCB, PAH, and Neutral Extractable Chlorinated Hydrocarbons Extraction (High Level)	EP660-H Waterloo - Environmental	Soil/Solid	EPA 3570 (mod)	A homogenized subsample is extracted with organic solvents using a mechanical shaker.

QUALITY CONTROL REPORT

Work Order	: **WT2205302**	Page	: 1 of 19
Client	: GHD Limited	Laboratory	: Waterloo - Environmental
Contact	: Jennifer Balkwill	Account Manager	: Rick Hawthorne
Address	: 455 Phillip Street Waterloo ON Canada N2L 3X2	Address	: 60 Northland Road, Unit 1 Waterloo, Ontario Canada N2V 2B8
Telephone	: ----	Telephone	: +1 519 886 6910
Project	: 12581540	Date Samples Received	: 09-Jun-2022 15:49
PO	: 735-003274	Date Analysis Commenced	: 10-Jun-2022
C-O-C number	: 20-951939	Issue Date	: 20-Jun-2022 07:50
Sampler	: CLIENT		
Site	: ----		
Quote number	: 12581540 - City of Mississauga		
No. of samples received	: 13		
No. of samples analysed	: 13		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percent Difference (RPD) and Data Quality Objectives
- Matrix Spike (MS) Report; Recovery and Data Quality Objectives
- Reference Material (RM) Report; Recovery and Data Quality Objectives
- Method Blank (MB) Report; Recovery and Data Quality Objectives
- Laboratory Control Sample (LCS) Report; Recovery and Data Quality Objectives

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

Signatories	*Position*	*Laboratory Department*
Amanda Ganouri-Lumsden	Department Manager - Microbiology and Prep	Waterloo Centralized Prep, Waterloo, Ontario
Andrea Armstrong	Department Manager - Air Quality and Volatiles	Waterloo Organics, Waterloo, Ontario
Greg Pokocky	Supervisor - Inorganic	Waterloo Inorganics, Waterloo, Ontario
Greg Pokocky	Supervisor - Inorganic	Waterloo Metals, Waterloo, Ontario
Jeremy Gingras	Team Leader - Semi-Volatile Instrumentation	Waterloo Organics, Waterloo, Ontario
Jocelyn Kennedy	Department Manager - Semi-Volatile Organics	Waterloo Organics, Waterloo, Ontario
Jon Fisher	Department Manager - Inorganics	Waterloo Inorganics, Waterloo, Ontario
Jon Fisher	Department Manager - Inorganics	Waterloo Metals, Waterloo, Ontario
Sarah Birch	Team Leader - Volatiles	Waterloo Organics, Waterloo, Ontario

General Comments

The ALS Quality Control (QC) report is optionally provided to ALS clients upon request. ALS test methods include comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined Data Quality Objectives (DQOs) to provide confidence in the accuracy of associated test results. This report contains detailed results for all QC results applicable to this sample submission. Please refer to the ALS Quality Control Interpretation report (QCI) for applicable method references and methodology summaries.

Key :

Anonymous = Refers to samples which are not part of this work order, but which formed part of the QC process lot.
CAS Number = Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
DQO = Data Quality Objective.
LOR = Limit of Reporting (detection limit).
RPD = Relative Percent Difference
# = Indicates a QC result that did not meet the ALS DQO.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Laboratory Duplicate (DUP) Report

A Laboratory Duplicate (DUP) is a randomly selected intralaboratory replicate sample. Laboratory Duplicates provide information regarding method precision and sample heterogeneity. ALS DQOs for Laboratory Duplicates are expressed as test-specific limits for Relative Percent Difference (RPD), or as an absolute difference limit of 2 times the LOR for low concentration duplicates within ~ 4-10 times the LOR (cut-off is test-specific).

Sub-Matrix: **Soil/Solid**

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	*Client sample ID*	*Analyte*	*CAS Number*	*Method*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD(%) or Difference*	*Duplicate Limits*	*Qualifier*
Physical Tests (QC Lot: 518550)											
WT2205096-001	Anonymous	pH (1:2 soil:CaCl2-aq)	----	E108A	0.10	pH units	7.48	7.51	0.03	Diff <2x LOR	----
Physical Tests (QC Lot: 518750)											
WT2205331-002	Anonymous	conductivity (1:2 leachate)	----	E100-L	5.00	µS/cm	0.390 mS/cm	390	0.00%	20%	----
Physical Tests (QC Lot: 518752)											
WT2205302-001	S-12581540-220606-JB-M W1-22-0.0 TO 0.6	moisture	----	E144	0.25	%	6.84	7.01	2.48%	20%	----
Physical Tests (QC Lot: 519031)											
WT2205233-001	Anonymous	moisture	----	E144	0.25	%	13.0	13.4	3.24%	20%	----
Cyanides (QC Lot: 518991)											
WT2205302-001	S-12581540-220606-JB-M W1-22-0.0 TO 0.6	cyanide, weak acid dissociable	----	E336A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
Metals (QC Lot: 518747)											
WT2205302-001	S-12581540-220606-JB-M W1-22-0.0 TO 0.6	mercury	7439-97-6	E510	0.0050	mg/kg	0.0072	0.0067	0.0005	Diff <2x LOR	----
Metals (QC Lot: 518748)											
WT2205302-001	S-12581540-220606-JB-M W1-22-0.0 TO 0.6	antimony	7440-36-0	E440	0.10	mg/kg	1.26	1.66	27.2%	30%	----
		arsenic	7440-38-2	E440	0.10	mg/kg	3.87	4.40	12.8%	30%	----
		barium	7440-39-3	E440	0.50	mg/kg	50.2	54.4	8.03%	40%	----
		beryllium	7440-41-7	E440	0.10	mg/kg	0.17	0.19	0.02	Diff <2x LOR	----
		boron	7440-42-8	E440	5.0	mg/kg	6.2	7.1	1.0	Diff <2x LOR	----
		cadmium	7440-43-9	E440	0.020	mg/kg	0.266	0.242	9.37%	30%	----
		chromium	7440-47-3	E440	0.50	mg/kg	71.8	78.4	8.84%	30%	----
		cobalt	7440-48-4	E440	0.10	mg/kg	3.84	3.99	3.96%	30%	----
		copper	7440-50-8	E440	0.50	mg/kg	44.5	44.0	1.29%	30%	----
		lead	7439-92-1	E440	0.50	mg/kg	17.8	18.2	2.28%	40%	----
		molybdenum	7439-98-7	E440	0.10	mg/kg	3.40	4.15	19.7%	40%	----
		nickel	7440-02-0	E440	0.50	mg/kg	12.9	15.2	16.1%	30%	----
		selenium	7782-49-2	E440	0.20	mg/kg	<0.20	<0.20	0	Diff <2x LOR	----
		silver	7440-22-4	E440	0.10	mg/kg	<0.10	<0.10	0	Diff <2x LOR	----
		thallium	7440-28-0	E440	0.050	mg/kg	0.211	0.232	0.021	Diff <2x LOR	----
		uranium	7440-61-1	E440	0.050	mg/kg	0.297	0.321	0.025	Diff <2x LOR	----
		vanadium	7440-62-2	E440	0.20	mg/kg	47.8	51.6	7.72%	30%	----
		zinc	7440-66-6	E440	2.0	mg/kg	133	145	8.60%	30%	----

Sub-Matrix: **Soil/Solid**

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	*Client sample ID*	*Analyte*	*CAS Number*	*Method*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD(%) or Difference*	*Duplicate Limits*	*Qualifier*
Metals (QC Lot: 518749)											
WT2205331-002	Anonymous	calcium, soluble ion content	7440-70-2	E484	0.50	mg/L	32.4	32.7	0.922%	30%	----
		magnesium, soluble ion content	7439-95-4	E484	0.50	mg/L	2.80	2.83	0.03	Diff <2x LOR	----
		sodium, soluble ion content	17341-25-2	E484	0.50	mg/L	50.2	50.3	0.199%	30%	----
Metals (QC Lot: 518751)											
WT2205302-005	S-12581540-220606-JB-MW2-22-0.0 TO 0.6	boron, hot water soluble	7440-42-8	E487	0.10	mg/kg	0.24	0.24	0.005	Diff <2x LOR	----
Speciated Metals (QC Lot: 518990)											
WT2205096-001	Anonymous	chromium, hexavalent [Cr VI]	18540-29-9	E532	0.10	mg/kg	0.30	0.34	0.05	Diff <2x LOR	----
Volatile Organic Compounds (QC Lot: 519774)											
WT2205302-002	S-12581540-220606-JB-MW1-22-1.5 TO 2.1	acetone	67-64-1	E611D	0.50	mg/kg	<0.50	<0.50	0	Diff <2x LOR	----
		benzene	71-43-2	E611D	0.0050	mg/kg	<0.0050	<0.0050	0	Diff <2x LOR	----
		bromodichloromethane	75-27-4	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		bromoform	75-25-2	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		bromomethane	74-83-9	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		carbon tetrachloride	56-23-5	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		chlorobenzene	108-90-7	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		chloroform	67-66-3	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		dibromochloromethane	124-48-1	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		dibromoethane, 1,2-	106-93-4	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		dichlorobenzene, 1,2-	95-50-1	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		dichlorobenzene, 1,3-	541-73-1	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		dichlorobenzene, 1,4-	106-46-7	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		dichlorodifluoromethane	75-71-8	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		dichloroethane, 1,1-	75-34-3	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		dichloroethane, 1,2-	107-06-2	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		dichloroethylene, 1,1-	75-35-4	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		dichloroethylene, cis-1,2-	156-59-2	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		dichloroethylene, trans-1,2-	156-60-5	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		dichloromethane	75-09-2	E611D	0.045	mg/kg	<0.045	<0.045	0	Diff <2x LOR	----
		dichloropropane, 1,2-	78-87-5	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		dichloropropylene, cis-1,3-	10061-01-5	E611D	0.030	mg/kg	<0.030	<0.030	0	Diff <2x LOR	----
		dichloropropylene, trans-1,3-	10061-02-6	E611D	0.030	mg/kg	<0.030	<0.030	0	Diff <2x LOR	----
		ethylbenzene	100-41-4	E611D	0.015	mg/kg	<0.015	<0.015	0	Diff <2x LOR	----
		hexane, n-	110-54-3	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		methyl ethyl ketone [MEK]	78-93-3	E611D	0.50	mg/kg	<0.50	<0.50	0	Diff <2x LOR	----

Sub-Matrix: **Soil/Solid**

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	*Client sample ID*	*Analyte*	*CAS Number*	*Method*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD(%) or Difference*	*Duplicate Limits*	*Qualifier*
Volatile Organic Compounds (QC Lot: 519774) - continued											
WT2205302-002	S-12581540-220606-JB-MW1-22-1.5 TO 2.1	methyl isobutyl ketone [MIBK]	108-10-1	E611D	0.50	mg/kg	<0.50	<0.50	0	Diff <2x LOR	----
		methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.040	mg/kg	<0.040	<0.040	0	Diff <2x LOR	----
		styrene	100-42-5	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		tetrachloroethylene	127-18-4	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		toluene	108-88-3	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		trichloroethane, 1,1,1-	71-55-6	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		trichloroethane, 1,1,2-	79-00-5	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		trichloroethylene	79-01-6	E611D	0.010	mg/kg	<0.010	<0.010	0	Diff <2x LOR	----
		trichlorofluoromethane	75-69-4	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		vinyl chloride	75-01-4	E611D	0.020	mg/kg	<0.020	<0.020	0	Diff <2x LOR	----
		xylene, m+p-	179601-23-1	E611D	0.030	mg/kg	<0.030	<0.030	0	Diff <2x LOR	----
		xylene, o-	95-47-6	E611D	0.030	mg/kg	<0.030	<0.030	0	Diff <2x LOR	----
Hydrocarbons (QC Lot: 518994)											
WT2205096-001	Anonymous	F2 (C10-C16)	----	E601.SG-L	10	mg/kg	<10	<10	0	Diff <2x LOR	----
		F3 (C16-C34)	----	E601.SG-L	50	mg/kg	<50	<50	0	Diff <2x LOR	----
		F4 (C34-C50)	----	E601.SG-L	50	mg/kg	<50	<50	0	Diff <2x LOR	----
Hydrocarbons (QC Lot: 519775)											
WT2205302-002	S-12581540-220606-JB-MW1-22-1.5 TO 2.1	F1 (C6-C10)	----	E581.F1	5.0	mg/kg	<5.0	<5.0	0	Diff <2x LOR	----
Polycyclic Aromatic Hydrocarbons (QC Lot: 519579)											
WT2205096-001	Anonymous	acenaphthene	83-32-9	E642F	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		acenaphthylene	208-96-8	E642F	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		anthracene	120-12-7	E642F	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		benz(a)anthracene	56-55-3	E642F	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		benzo(a)pyrene	50-32-8	E642F	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		benzo(b+j)fluoranthene	n/a	E642F	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		benzo(g,h,i)perylene	191-24-2	E642F	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		benzo(k)fluoranthene	207-08-9	E642F	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		chrysene	218-01-9	E642F	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		dibenz(a,h)anthracene	53-70-3	E642F	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		fluoranthene	206-44-0	E642F	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		fluorene	86-73-7	E642F	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		indeno(1,2,3-c,d)pyrene	193-39-5	E642F	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----

Sub-Matrix: **Soil/Solid**

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	*Client sample ID*	*Analyte*	*CAS Number*	*Method*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD(%) or Difference*	*Duplicate Limits*	*Qualifier*
Polycyclic Aromatic Hydrocarbons (QC Lot: 519579) - continued											
WT2205096-001	Anonymous	methylnaphthalene, 1-	90-12-0	E642F	0.030	mg/kg	<0.030	<0.030	0	Diff <2x LOR	----
		methylnaphthalene, 2-	91-57-6	E642F	0.030	mg/kg	<0.030	<0.030	0	Diff <2x LOR	----
		naphthalene	91-20-3	E642F	0.010	mg/kg	<0.010	<0.010	0	Diff <2x LOR	----
		phenanthrene	85-01-8	E642F	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		pyrene	129-00-0	E642F	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
Polychlorinated Biphenyls (QC Lot: 521102)											
WT2205302-001	S-12581540-220606-JB-MW1-22-0.0 TO 0.6	Aroclor 1016	12674-11-2	E687	0.100	mg/kg	<0.100	<0.100	0	Diff <2x LOR	----
		Aroclor 1221	11104-28-2	E687	0.100	mg/kg	<0.100	<0.100	0	Diff <2x LOR	----
		Aroclor 1232	11141-16-5	E687	0.100	mg/kg	<0.100	<0.100	0	Diff <2x LOR	----
		Aroclor 1242	53469-21-9	E687	0.100	mg/kg	<0.100	<0.100	0	Diff <2x LOR	----
		Aroclor 1248	12672-29-6	E687	0.100	mg/kg	<0.100	<0.100	0	Diff <2x LOR	----
		Aroclor 1254	11097-69-1	E687	0.100	mg/kg	<0.100	<0.100	0	Diff <2x LOR	----
		Aroclor 1260	11096-82-5	E687	0.100	mg/kg	<0.100	<0.100	0	Diff <2x LOR	----
		Aroclor 1262	37324-23-5	E687	0.100	mg/kg	<0.100	<0.100	0	Diff <2x LOR	----
		Aroclor 1268	11100-14-4	E687	0.100	mg/kg	<0.100	<0.100	0	Diff <2x LOR	----

Method Blank (MB) Report

A Method Blank is an analyte-free matrix that undergoes sample processing identical to that carried out for test samples. Method Blank results are used to monitor and control for potential contamination from the laboratory environment and reagents. For most tests, the DQO for Method Blanks is for the result to be < LOR.

Sub-Matrix: **Soil/Solid**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Physical Tests (QCLot: 518750)						
conductivity (1:2 leachate)	----	E100-L	5	µS/cm	<5.00	----
Physical Tests (QCLot: 518752)						
moisture	----	E144	0.25	%	<0.25	----
Physical Tests (QCLot: 519031)						
moisture	----	E144	0.25	%	<0.25	----
Cyanides (QCLot: 518991)						
cyanide, weak acid dissociable	----	E336A	0.05	mg/kg	<0.050	----
Metals (QCLot: 518747)						
mercury	7439-97-6	E510	0.005	mg/kg	<0.0050	----
Metals (QCLot: 518748)						
antimony	7440-36-0	E440	0.1	mg/kg	<0.10	----
arsenic	7440-38-2	E440	0.1	mg/kg	<0.10	----
barium	7440-39-3	E440	0.5	mg/kg	<0.50	----
beryllium	7440-41-7	E440	0.1	mg/kg	<0.10	----
boron	7440-42-8	E440	5	mg/kg	<5.0	----
cadmium	7440-43-9	E440	0.02	mg/kg	<0.020	----
chromium	7440-47-3	E440	0.5	mg/kg	<0.50	----
cobalt	7440-48-4	E440	0.1	mg/kg	<0.10	----
copper	7440-50-8	E440	0.5	mg/kg	<0.50	----
lead	7439-92-1	E440	0.5	mg/kg	<0.50	----
molybdenum	7439-98-7	E440	0.1	mg/kg	<0.10	----
nickel	7440-02-0	E440	0.5	mg/kg	<0.50	----
selenium	7782-49-2	E440	0.2	mg/kg	<0.20	----
silver	7440-22-4	E440	0.1	mg/kg	<0.10	----
thallium	7440-28-0	E440	0.05	mg/kg	<0.050	----
uranium	7440-61-1	E440	0.05	mg/kg	<0.050	----
vanadium	7440-62-2	E440	0.2	mg/kg	<0.20	----
zinc	7440-66-6	E440	2	mg/kg	<2.0	----
Metals (QCLot: 518749)						
calcium, soluble ion content	7440-70-2	E484	0.5	mg/L	<0.50	----
magnesium, soluble ion content	7439-95-4	E484	0.5	mg/L	<0.50	----
sodium, soluble ion content	17341-25-2	E484	0.5	mg/L	<0.50	----
Metals (QCLot: 518751)						

Sub-Matrix: **Soil/Solid**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Metals (QCLot: 518751) - continued						
boron, hot water soluble	7440-42-8	E487	0.1	mg/kg	<0.10	----
Speciated Metals (QCLot: 518990)						
chromium, hexavalent [Cr VI]	18540-29-9	E532	0.1	mg/kg	<0.10	----
Volatile Organic Compounds (QCLot: 519774)						
acetone	67-64-1	E611D	0.5	mg/kg	<0.50	----
benzene	71-43-2	E611D	0.005	mg/kg	<0.0050	----
bromodichloromethane	75-27-4	E611D	0.05	mg/kg	<0.050	----
bromoform	75-25-2	E611D	0.05	mg/kg	<0.050	----
bromomethane	74-83-9	E611D	0.05	mg/kg	<0.050	----
carbon tetrachloride	56-23-5	E611D	0.05	mg/kg	<0.050	----
chlorobenzene	108-90-7	E611D	0.05	mg/kg	<0.050	----
chloroform	67-66-3	E611D	0.05	mg/kg	<0.050	----
dibromochloromethane	124-48-1	E611D	0.05	mg/kg	<0.050	----
dibromoethane, 1,2-	106-93-4	E611D	0.05	mg/kg	<0.050	----
dichlorobenzene, 1,2-	95-50-1	E611D	0.05	mg/kg	<0.050	----
dichlorobenzene, 1,3-	541-73-1	E611D	0.05	mg/kg	<0.050	----
dichlorobenzene, 1,4-	106-46-7	E611D	0.05	mg/kg	<0.050	----
dichlorodifluoromethane	75-71-8	E611D	0.05	mg/kg	<0.050	----
dichloroethane, 1,1-	75-34-3	E611D	0.05	mg/kg	<0.050	----
dichloroethane, 1,2-	107-06-2	E611D	0.05	mg/kg	<0.050	----
dichloroethylene, 1,1-	75-35-4	E611D	0.05	mg/kg	<0.050	----
dichloroethylene, cis-1,2-	156-59-2	E611D	0.05	mg/kg	<0.050	----
dichloroethylene, trans-1,2-	156-60-5	E611D	0.05	mg/kg	<0.050	----
dichloromethane	75-09-2	E611D	0.045	mg/kg	<0.045	----
dichloropropane, 1,2-	78-87-5	E611D	0.05	mg/kg	<0.050	----
dichloropropylene, cis-1,3-	10061-01-5	E611D	0.03	mg/kg	<0.030	----
dichloropropylene, trans-1,3-	10061-02-6	E611D	0.03	mg/kg	<0.030	----
ethylbenzene	100-41-4	E611D	0.015	mg/kg	<0.015	----
hexane, n-	110-54-3	E611D	0.05	mg/kg	<0.050	----
methyl ethyl ketone [MEK]	78-93-3	E611D	0.5	mg/kg	<0.50	----
methyl isobutyl ketone [MIBK]	108-10-1	E611D	0.5	mg/kg	<0.50	----
methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.04	mg/kg	<0.040	----
styrene	100-42-5	E611D	0.05	mg/kg	<0.050	----
tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.05	mg/kg	<0.050	----
tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.05	mg/kg	<0.050	----
tetrachloroethylene	127-18-4	E611D	0.05	mg/kg	<0.050	----

Sub-Matrix: **Soil/Solid**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Volatile Organic Compounds (QCLot: 519774) - continued						
toluene	108-88-3	E611D	0.05	mg/kg	<0.050	----
trichloroethane, 1,1,1-	71-55-6	E611D	0.05	mg/kg	<0.050	----
trichloroethane, 1,1,2-	79-00-5	E611D	0.05	mg/kg	<0.050	----
trichloroethylene	79-01-6	E611D	0.01	mg/kg	<0.010	----
trichlorofluoromethane	75-69-4	E611D	0.05	mg/kg	<0.050	----
vinyl chloride	75-01-4	E611D	0.02	mg/kg	<0.020	----
xylene, m+p-	179601-23-1	E611D	0.03	mg/kg	<0.030	----
xylene, o-	95-47-6	E611D	0.03	mg/kg	<0.030	----
Hydrocarbons (QCLot: 518994)						
F2 (C10-C16)	----	E601.SG-L	10	mg/kg	<10	----
F3 (C16-C34)	----	E601.SG-L	50	mg/kg	<50	----
F4 (C34-C50)	----	E601.SG-L	50	mg/kg	<50	----
Hydrocarbons (QCLot: 519775)						
F1 (C6-C10)	----	E581.F1	5	mg/kg	<5.0	----
Hydrocarbons (QCLot: 527694)						
F4G-sg	----	E601.F4G-L	250	mg/kg	<250	----
Polycyclic Aromatic Hydrocarbons (QCLot: 519579)						
acenaphthene	83-32-9	E642F	0.05	mg/kg	<0.050	----
acenaphthylene	208-96-8	E642F	0.05	mg/kg	<0.050	----
anthracene	120-12-7	E642F	0.05	mg/kg	<0.050	----
benz(a)anthracene	56-55-3	E642F	0.05	mg/kg	<0.050	----
benzo(a)pyrene	50-32-8	E642F	0.05	mg/kg	<0.050	----
benzo(b+j)fluoranthene	n/a	E642F	0.05	mg/kg	<0.050	----
benzo(g,h,i)perylene	191-24-2	E642F	0.05	mg/kg	<0.050	----
benzo(k)fluoranthene	207-08-9	E642F	0.05	mg/kg	<0.050	----
chrysene	218-01-9	E642F	0.05	mg/kg	<0.050	----
dibenz(a,h)anthracene	53-70-3	E642F	0.05	mg/kg	<0.050	----
fluoranthene	206-44-0	E642F	0.05	mg/kg	<0.050	----
fluorene	86-73-7	E642F	0.05	mg/kg	<0.050	----
indeno(1,2,3-c,d)pyrene	193-39-5	E642F	0.05	mg/kg	<0.050	----
methylnaphthalene, 1-	90-12-0	E642F	0.03	mg/kg	<0.030	----
methylnaphthalene, 2-	91-57-6	E642F	0.03	mg/kg	<0.030	----
naphthalene	91-20-3	E642F	0.01	mg/kg	<0.010	----
phenanthrene	85-01-8	E642F	0.05	mg/kg	<0.050	----
pyrene	129-00-0	E642F	0.05	mg/kg	<0.050	----
Polychlorinated Biphenyls (QCLot: 521102)						

Sub-Matrix: **Soil/Solid**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Polychlorinated Biphenyls (QCLot: 521102) - continued						
Aroclor 1016	12674-11-2	E687	0.01	mg/kg	<0.010	----
Aroclor 1221	11104-28-2	E687	0.01	mg/kg	<0.010	----
Aroclor 1232	11141-16-5	E687	0.01	mg/kg	<0.010	----
Aroclor 1242	53469-21-9	E687	0.01	mg/kg	<0.010	----
Aroclor 1248	12672-29-6	E687	0.01	mg/kg	<0.010	----
Aroclor 1254	11097-69-1	E687	0.01	mg/kg	<0.010	----
Aroclor 1260	11096-82-5	E687	0.01	mg/kg	<0.010	----
Aroclor 1262	37324-23-5	E687	0.01	mg/kg	<0.010	----
Aroclor 1268	11100-14-4	E687	0.01	mg/kg	<0.010	----

Laboratory Control Sample (LCS) Report

A Laboratory Control Sample (LCS) is an analyte-free matrix that has been fortified (spiked) with test analytes at known concentration and processed in an identical manner to test samples. LCS results are expressed as percent recovery, and are used to monitor and control test method accuracy and precision, independent of test sample matrix.

Sub-Matrix: **Soil/Solid**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Concentration	LCS	Low	High	Qualifier
Physical Tests (QCLot: 518550)									
pH (1:2 soil:CaCl2-aq)	----	E108A	----	pH units	7 pH units	100	98.0	102	----
Physical Tests (QCLot: 518750)									
conductivity (1:2 leachate)	----	E100-L	5	µS/cm	1409 µS/cm	92.7	90.0	110	----
Physical Tests (QCLot: 518752)									
moisture	----	E144	0.25	%	50 %	99.9	90.0	110	----
Physical Tests (QCLot: 519031)									
moisture	----	E144	0.25	%	50 %	100	90.0	110	----
Cyanides (QCLot: 518991)									
cyanide, weak acid dissociable	----	E336A	0.05	mg/kg	2.5 mg/kg	83.0	80.0	125	----
Metals (QCLot: 518747)									
mercury	7439-97-6	E510	0.005	mg/kg	0.1 mg/kg	99.0	80.0	120	----
Metals (QCLot: 518748)									
antimony	7440-36-0	E440	0.1	mg/kg	100 mg/kg	117	80.0	120	----
arsenic	7440-38-2	E440	0.1	mg/kg	100 mg/kg	115	80.0	120	----
barium	7440-39-3	E440	0.5	mg/kg	25 mg/kg	113	80.0	120	----
beryllium	7440-41-7	E440	0.1	mg/kg	10 mg/kg	110	80.0	120	----
boron	7440-42-8	E440	5	mg/kg	100 mg/kg	104	80.0	120	----
cadmium	7440-43-9	E440	0.02	mg/kg	10 mg/kg	113	80.0	120	----
chromium	7440-47-3	E440	0.5	mg/kg	25 mg/kg	114	80.0	120	----
cobalt	7440-48-4	E440	0.1	mg/kg	25 mg/kg	115	80.0	120	----
copper	7440-50-8	E440	0.5	mg/kg	25 mg/kg	111	80.0	120	----
lead	7439-92-1	E440	0.5	mg/kg	50 mg/kg	114	80.0	120	----
molybdenum	7439-98-7	E440	0.1	mg/kg	25 mg/kg	113	80.0	120	----
nickel	7440-02-0	E440	0.5	mg/kg	50 mg/kg	112	80.0	120	----
selenium	7782-49-2	E440	0.2	mg/kg	100 mg/kg	116	80.0	120	----
silver	7440-22-4	E440	0.1	mg/kg	10 mg/kg	81.5	80.0	120	----
thallium	7440-28-0	E440	0.05	mg/kg	100 mg/kg	111	80.0	120	----
uranium	7440-61-1	E440	0.05	mg/kg	0.5 mg/kg	105	80.0	120	----
vanadium	7440-62-2	E440	0.2	mg/kg	50 mg/kg	116	80.0	120	----
zinc	7440-66-6	E440	2	mg/kg	50 mg/kg	112	80.0	120	----
Metals (QCLot: 518749)									
calcium, soluble ion content	7440-70-2	E484	0.5	mg/L	300 mg/L	108	70.0	130	----

Sub-Matrix: **Soil/Solid**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Concentration	LCS	Low	High	Qualifier
Metals (QCLot: 518749) - continued									
magnesium, soluble ion content	7439-95-4	E484	0.5	mg/L	50 mg/L	105	70.0	130	----
sodium, soluble ion content	17341-25-2	E484	0.5	mg/L	50 mg/L	101	70.0	130	----
Metals (QCLot: 518751)									
boron, hot water soluble	7440-42-8	E487	0.1	mg/kg	1.33333 mg/kg	104	70.0	130	----
Speciated Metals (QCLot: 518990)									
chromium, hexavalent [Cr VI]	18540-29-9	E532	0.1	mg/kg	0.8 mg/kg	87.4	80.0	120	----
Volatile Organic Compounds (QCLot: 519774)									
acetone	67-64-1	E611D	0.5	mg/kg	3.475 mg/kg	129	60.0	140	----
benzene	71-43-2	E611D	0.005	mg/kg	3.475 mg/kg	118	70.0	130	----
bromodichloromethane	75-27-4	E611D	0.05	mg/kg	3.475 mg/kg	123	50.0	140	----
bromoform	75-25-2	E611D	0.05	mg/kg	3.475 mg/kg	# 133	70.0	130	MES
bromomethane	74-83-9	E611D	0.05	mg/kg	3.475 mg/kg	96.2	50.0	140	----
carbon tetrachloride	56-23-5	E611D	0.05	mg/kg	3.475 mg/kg	118	70.0	130	----
chlorobenzene	108-90-7	E611D	0.05	mg/kg	3.475 mg/kg	109	70.0	130	----
chloroform	67-66-3	E611D	0.05	mg/kg	3.475 mg/kg	115	70.0	130	----
dibromochloromethane	124-48-1	E611D	0.05	mg/kg	3.475 mg/kg	126	60.0	130	----
dibromoethane, 1,2-	106-93-4	E611D	0.05	mg/kg	3.475 mg/kg	107	70.0	130	----
dichlorobenzene, 1,2-	95-50-1	E611D	0.05	mg/kg	3.475 mg/kg	111	70.0	130	----
dichlorobenzene, 1,3-	541-73-1	E611D	0.05	mg/kg	3.475 mg/kg	106	70.0	130	----
dichlorobenzene, 1,4-	106-46-7	E611D	0.05	mg/kg	3.475 mg/kg	110	70.0	130	----
dichlorodifluoromethane	75-71-8	E611D	0.05	mg/kg	3.475 mg/kg	69.1	50.0	140	----
dichloroethane, 1,1-	75-34-3	E611D	0.05	mg/kg	3.475 mg/kg	109	60.0	130	----
dichloroethane, 1,2-	107-06-2	E611D	0.05	mg/kg	3.475 mg/kg	115	60.0	130	----
dichloroethylene, 1,1-	75-35-4	E611D	0.05	mg/kg	3.475 mg/kg	99.5	60.0	130	----
dichloroethylene, cis-1,2-	156-59-2	E611D	0.05	mg/kg	3.475 mg/kg	96.8	70.0	130	----
dichloroethylene, trans-1,2-	156-60-5	E611D	0.05	mg/kg	3.475 mg/kg	107	60.0	130	----
dichloromethane	75-09-2	E611D	0.045	mg/kg	3.475 mg/kg	114	70.0	130	----
dichloropropane, 1,2-	78-87-5	E611D	0.05	mg/kg	3.475 mg/kg	107	70.0	130	----
dichloropropylene, cis-1,3-	10061-01-5	E611D	0.03	mg/kg	3.475 mg/kg	108	70.0	130	----
dichloropropylene, trans-1,3-	10061-02-6	E611D	0.03	mg/kg	3.475 mg/kg	103	70.0	130	----
ethylbenzene	100-41-4	E611D	0.015	mg/kg	3.475 mg/kg	110	70.0	130	----
hexane, n-	110-54-3	E611D	0.05	mg/kg	3.475 mg/kg	97.1	70.0	130	----
methyl ethyl ketone [MEK]	78-93-3	E611D	0.5	mg/kg	3.475 mg/kg	129	60.0	140	----
methyl isobutyl ketone [MIBK]	108-10-1	E611D	0.5	mg/kg	3.475 mg/kg	121	60.0	140	----
methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.04	mg/kg	3.475 mg/kg	105	70.0	130	----
styrene	100-42-5	E611D	0.05	mg/kg	3.475 mg/kg	107	70.0	130	----

Sub-Matrix: **Soil/Solid**

Analyte	CAS Number	Method	LOR	Unit	Laboratory Control Sample (LCS) Report: Spike Concentration	Recovery (%): LCS	Recovery Limits (%): Low	Recovery Limits (%): High	Qualifier
Volatile Organic Compounds (QCLot: 519774) - continued									
tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.05	mg/kg	3.475 mg/kg	112	60.0	130	----
tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.05	mg/kg	3.475 mg/kg	120	60.0	130	----
tetrachloroethylene	127-18-4	E611D	0.05	mg/kg	3.475 mg/kg	124	60.0	130	----
toluene	108-88-3	E611D	0.05	mg/kg	3.475 mg/kg	113	70.0	130	----
trichloroethane, 1,1,1-	71-55-6	E611D	0.05	mg/kg	3.475 mg/kg	104	60.0	130	----
trichloroethane, 1,1,2-	79-00-5	E611D	0.05	mg/kg	3.475 mg/kg	110	60.0	130	----
trichloroethylene	79-01-6	E611D	0.01	mg/kg	3.475 mg/kg	114	60.0	130	----
trichlorofluoromethane	75-69-4	E611D	0.05	mg/kg	3.475 mg/kg	98.1	50.0	140	----
vinyl chloride	75-01-4	E611D	0.02	mg/kg	3.475 mg/kg	80.8	60.0	140	----
xylene, m+p-	179601-23-1	E611D	0.03	mg/kg	6.95 mg/kg	109	70.0	130	----
xylene, o-	95-47-6	E611D	0.03	mg/kg	3.475 mg/kg	111	70.0	130	----
Hydrocarbons (QCLot: 518994)									
F2 (C10-C16)	----	E601.SG-L	10	mg/kg	862.575 mg/kg	92.2	70.0	130	----
F3 (C16-C34)	----	E601.SG-L	50	mg/kg	1227.23 mg/kg	98.7	70.0	130	----
F4 (C34-C50)	----	E601.SG-L	50	mg/kg	777.05 mg/kg	101	70.0	130	----
Hydrocarbons (QCLot: 519775)									
F1 (C6-C10)	----	E581.F1	5	mg/kg	69.1875 mg/kg	96.2	80.0	120	----
Hydrocarbons (QCLot: 527694)									
F4G-sg	----	E601.F4G-L	250	mg/kg	1298.6 mg/kg	82.1	70.0	130	----
Polycyclic Aromatic Hydrocarbons (QCLot: 519579)									
acenaphthene	83-32-9	E642F	0.05	mg/kg	0.8 mg/kg	85.9	60.0	130	----
acenaphthylene	208-96-8	E642F	0.05	mg/kg	0.8 mg/kg	89.2	60.0	130	----
anthracene	120-12-7	E642F	0.05	mg/kg	0.8 mg/kg	89.4	60.0	130	----
benz(a)anthracene	56-55-3	E642F	0.05	mg/kg	0.8 mg/kg	85.0	60.0	130	----
benzo(a)pyrene	50-32-8	E642F	0.05	mg/kg	0.8 mg/kg	105	60.0	130	----
benzo(b+j)fluoranthene	n/a	E642F	0.05	mg/kg	0.8 mg/kg	85.2	60.0	130	----
benzo(g,h,i)perylene	191-24-2	E642F	0.05	mg/kg	0.8 mg/kg	92.9	60.0	130	----
benzo(k)fluoranthene	207-08-9	E642F	0.05	mg/kg	0.8 mg/kg	95.2	60.0	130	----
chrysene	218-01-9	E642F	0.05	mg/kg	0.8 mg/kg	98.6	60.0	130	----
dibenz(a,h)anthracene	53-70-3	E642F	0.05	mg/kg	0.8 mg/kg	85.7	60.0	130	----
fluoranthene	206-44-0	E642F	0.05	mg/kg	0.8 mg/kg	85.2	60.0	130	----
fluorene	86-73-7	E642F	0.05	mg/kg	0.8 mg/kg	84.7	60.0	130	----
indeno(1,2,3-c,d)pyrene	193-39-5	E642F	0.05	mg/kg	0.8 mg/kg	103	60.0	130	----
methylnaphthalene, 1-	90-12-0	E642F	0.03	mg/kg	0.8 mg/kg	88.1	60.0	130	----
methylnaphthalene, 2-	91-57-6	E642F	0.03	mg/kg	0.8 mg/kg	88.8	60.0	130	----

Sub-Matrix: **Soil/Solid**

Analyte	CAS Number	Method	LOR	Unit	Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
					Concentration	LCS	Low	High	Qualifier
Polycyclic Aromatic Hydrocarbons (QCLot: 519579) - continued									
naphthalene	91-20-3	E642F	0.01	mg/kg	0.8 mg/kg	90.6	60.0	130	----
phenanthrene	85-01-8	E642F	0.05	mg/kg	0.8 mg/kg	88.4	60.0	130	----
pyrene	129-00-0	E642F	0.05	mg/kg	0.8 mg/kg	85.5	60.0	130	----
Polychlorinated Biphenyls (QCLot: 521102)									
Aroclor 1016	12674-11-2	E687	0.01	mg/kg	0.2 mg/kg	95.5	60.0	140	----
Aroclor 1221	11104-28-2	E687	0.01	mg/kg	0.2 mg/kg	95.5	60.0	140	----
Aroclor 1232	11141-16-5	E687	0.01	mg/kg	0.2 mg/kg	95.5	60.0	140	----
Aroclor 1242	53469-21-9	E687	0.01	mg/kg	0.2 mg/kg	95.5	60.0	140	----
Aroclor 1248	12672-29-6	E687	0.01	mg/kg	0.2 mg/kg	91.8	60.0	140	----
Aroclor 1254	11097-69-1	E687	0.01	mg/kg	0.2 mg/kg	89.4	60.0	140	----
Aroclor 1260	11096-82-5	E687	0.01	mg/kg	0.2 mg/kg	96.3	60.0	140	----
Aroclor 1262	37324-23-5	E687	0.01	mg/kg	0.2 mg/kg	96.3	60.0	140	----
Aroclor 1268	11100-14-4	E687	0.01	mg/kg	0.2 mg/kg	96.3	60.0	140	----

Qualifiers

Qualifier	Description
MES	*Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).*

Matrix Spike (MS) Report

A Matrix Spike (MS) is a randomly selected intra-laboratory replicate sample that has been fortified (spiked) with test analytes at known concentration, and processed in an identical manner to test samples. Matrix Spikes provide information regarding analyte recovery and potential matrix effects. MS DQO exceedances due to sample matrix may sometimes be unavoidable; in such cases, test results for the associated sample (or similar samples) may be subject to bias. ND – Recovery not determined, background level >= 1x spike level.

Sub-Matrix: **Soil/Solid**

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Cyanides (QCLot: 518991)										
WT2205302-001	S-12581540-220606-JB-MW 1-22-0.0 TO 0.6	cyanide, weak acid dissociable	----	E336A	1.14 mg/kg	2.5 mg/kg	90.4	70.0	130	----
Volatile Organic Compounds (QCLot: 519774)										
WT2205302-002	S-12581540-220606-JB-MW 1-22-1.5 TO 2.1	acetone	67-64-1	E611D	3.72 mg/kg	3.125 mg/kg	116	50.0	140	----
		benzene	71-43-2	E611D	3.57 mg/kg	3.125 mg/kg	111	50.0	140	----
		bromodichloromethane	75-27-4	E611D	3.70 mg/kg	3.125 mg/kg	116	50.0	140	----
		bromoform	75-25-2	E611D	3.98 mg/kg	3.125 mg/kg	124	50.0	140	----
		bromomethane	74-83-9	E611D	3.03 mg/kg	3.125 mg/kg	94.6	50.0	140	----
		carbon tetrachloride	56-23-5	E611D	3.59 mg/kg	3.125 mg/kg	112	50.0	140	----
		chlorobenzene	108-90-7	E611D	3.24 mg/kg	3.125 mg/kg	101	50.0	140	----
		chloroform	67-66-3	E611D	3.47 mg/kg	3.125 mg/kg	108	50.0	140	----
		dibromochloromethane	124-48-1	E611D	3.78 mg/kg	3.125 mg/kg	118	50.0	140	----
		dibromoethane, 1,2-	106-93-4	E611D	3.21 mg/kg	3.125 mg/kg	100	50.0	140	----
		dichlorobenzene, 1,2-	95-50-1	E611D	3.22 mg/kg	3.125 mg/kg	100	50.0	140	----
		dichlorobenzene, 1,3-	541-73-1	E611D	3.07 mg/kg	3.125 mg/kg	96.0	50.0	140	----
		dichlorobenzene, 1,4-	106-46-7	E611D	3.16 mg/kg	3.125 mg/kg	98.7	50.0	140	----
		dichlorodifluoromethane	75-71-8	E611D	2.59 mg/kg	3.125 mg/kg	80.9	50.0	140	----
		dichloroethane, 1,1-	75-34-3	E611D	3.33 mg/kg	3.125 mg/kg	104	50.0	140	----
		dichloroethane, 1,2-	107-06-2	E611D	3.49 mg/kg	3.125 mg/kg	109	50.0	140	----
		dichloroethylene, 1,1-	75-35-4	E611D	3.11 mg/kg	3.125 mg/kg	97.2	50.0	140	----
		dichloroethylene, cis-1,2-	156-59-2	E611D	2.91 mg/kg	3.125 mg/kg	90.8	50.0	140	----
		dichloroethylene, trans-1,2-	156-60-5	E611D	3.26 mg/kg	3.125 mg/kg	102	50.0	140	----
		dichloromethane	75-09-2	E611D	3.46 mg/kg	3.125 mg/kg	108	50.0	140	----
		dichloropropane, 1,2-	78-87-5	E611D	3.23 mg/kg	3.125 mg/kg	101	50.0	140	----
		dichloropropylene, cis-1,3-	10061-01-5	E611D	3.22 mg/kg	3.125 mg/kg	100	50.0	140	----
		dichloropropylene, trans-1,3-	10061-02-6	E611D	3.05 mg/kg	3.125 mg/kg	95.2	50.0	140	----
		ethylbenzene	100-41-4	E611D	3.28 mg/kg	3.125 mg/kg	102	50.0	140	----
		hexane, n-	110-54-3	E611D	3.16 mg/kg	3.125 mg/kg	98.5	50.0	140	----
		methyl ethyl ketone [MEK]	78-93-3	E611D	3.72 mg/kg	3.125 mg/kg	116	50.0	140	----
		methyl isobutyl ketone [MIBK]	108-10-1	E611D	3.56 mg/kg	3.125 mg/kg	111	50.0	140	----
		methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	3.23 mg/kg	3.125 mg/kg	101	50.0	140	----
		styrene	100-42-5	E611D	3.20 mg/kg	3.125 mg/kg	100	50.0	140	----
		tetrachloroethane, 1,1,1,2-	630-20-6	E611D	3.36 mg/kg	3.125 mg/kg	105	50.0	140	----

Sub-Matrix: **Soil/Solid**

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Volatile Organic Compounds (QCLot: 519774) - continued										
WT2205302-002	S-12581540-220606-JB-MW 1-22-1.5 TO 2.1	tetrachloroethane, 1,1,2,2-	79-34-5	E611D	3.56 mg/kg	3.125 mg/kg	111	50.0	140	----
		tetrachloroethylene	127-18-4	E611D	3.70 mg/kg	3.125 mg/kg	116	50.0	140	----
		toluene	108-88-3	E611D	3.36 mg/kg	3.125 mg/kg	105	50.0	140	----
		trichloroethane, 1,1,1-	71-55-6	E611D	3.16 mg/kg	3.125 mg/kg	98.8	50.0	140	----
		trichloroethane, 1,1,2-	79-00-5	E611D	3.31 mg/kg	3.125 mg/kg	103	50.0	140	----
		trichloroethylene	79-01-6	E611D	3.42 mg/kg	3.125 mg/kg	107	50.0	140	----
		trichlorofluoromethane	75-69-4	E611D	3.20 mg/kg	3.125 mg/kg	99.8	50.0	140	----
		vinyl chloride	75-01-4	E611D	2.63 mg/kg	3.125 mg/kg	82.2	50.0	140	----
		xylene, m+p-	179601-23-1	E611D	6.48 mg/kg	6.25 mg/kg	101	50.0	140	----
		xylene, o-	95-47-6	E611D	3.31 mg/kg	3.125 mg/kg	103	50.0	140	----
Hydrocarbons (QCLot: 518994)										
WT2205096-001	Anonymous	F2 (C10-C16)	----	E601.SG-L	693 mg/kg	862.575 mg/kg	100	60.0	140	----
		F3 (C16-C34)	----	E601.SG-L	798 mg/kg	1227.213 mg/kg	81.3	60.0	140	----
		F4 (C34-C50)	----	E601.SG-L	773 mg/kg	777.05 mg/kg	124	60.0	140	----
Hydrocarbons (QCLot: 519775)										
WT2205302-002	S-12581540-220606-JB-MW 1-22-1.5 TO 2.1	F1 (C6-C10)	----	E581.F1	46.7 mg/kg	62.5 mg/kg	72.8	60.0	140	----
Polycyclic Aromatic Hydrocarbons (QCLot: 519579)										
WT2205096-001	Anonymous	acenaphthene	83-32-9	E642F	0.710 mg/kg	0.8 mg/kg	89.9	50.0	140	----
		acenaphthylene	208-96-8	E642F	0.726 mg/kg	0.8 mg/kg	91.9	50.0	140	----
		anthracene	120-12-7	E642F	0.774 mg/kg	0.8 mg/kg	97.9	50.0	140	----
		benz(a)anthracene	56-55-3	E642F	0.748 mg/kg	0.8 mg/kg	94.8	50.0	140	----
		benzo(a)pyrene	50-32-8	E642F	0.850 mg/kg	0.8 mg/kg	108	50.0	140	----
		benzo(b+j)fluoranthene	n/a	E642F	0.825 mg/kg	0.8 mg/kg	104	50.0	140	----
		benzo(g,h,i)perylene	191-24-2	E642F	0.713 mg/kg	0.8 mg/kg	90.2	50.0	140	----
		benzo(k)fluoranthene	207-08-9	E642F	0.743 mg/kg	0.8 mg/kg	94.1	50.0	140	----
		chrysene	218-01-9	E642F	0.797 mg/kg	0.8 mg/kg	101	50.0	140	----
		dibenz(a,h)anthracene	53-70-3	E642F	0.684 mg/kg	0.8 mg/kg	86.6	50.0	140	----
		fluoranthene	206-44-0	E642F	0.726 mg/kg	0.8 mg/kg	91.9	50.0	140	----
		fluorene	86-73-7	E642F	0.698 mg/kg	0.8 mg/kg	88.4	50.0	140	----
		indeno(1,2,3-c,d)pyrene	193-39-5	E642F	0.790 mg/kg	0.8 mg/kg	100.0	50.0	140	----
		methylnaphthalene, 1-	90-12-0	E642F	0.723 mg/kg	0.8 mg/kg	91.5	50.0	140	----
		methylnaphthalene, 2-	91-57-6	E642F	0.730 mg/kg	0.8 mg/kg	92.4	50.0	140	----
		naphthalene	91-20-3	E642F	0.740 mg/kg	0.8 mg/kg	93.6	50.0	140	----
		phenanthrene	85-01-8	E642F	0.735 mg/kg	0.8 mg/kg	93.0	50.0	140	----
		pyrene	129-00-0	E642F	0.720 mg/kg	0.8 mg/kg	91.2	50.0	140	----

Sub-Matrix: **Soil/Solid**

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Polychlorinated Biphenyls (QCLot: 521102)										
WT2205302-001	S-12581540-220606-JB-MW 1-22-0.0 TO 0.6	Aroclor 1016	12674-11-2	E687	0.160 mg/kg	0.2 mg/kg	80.8	50.0	150	----
		Aroclor 1221	11104-28-2	E687	0.160 mg/kg	0.2 mg/kg	80.8	50.0	150	----
		Aroclor 1232	11141-16-5	E687	0.160 mg/kg	0.2 mg/kg	80.8	50.0	150	----
		Aroclor 1242	53469-21-9	E687	0.154 mg/kg	0.2 mg/kg	77.4	50.0	150	----
		Aroclor 1248	12672-29-6	E687	0.160 mg/kg	0.2 mg/kg	80.8	50.0	150	----
		Aroclor 1254	11097-69-1	E687	0.158 mg/kg	0.2 mg/kg	79.7	50.0	150	----
		Aroclor 1260	11096-82-5	E687	0.170 mg/kg	0.2 mg/kg	85.4	50.0	150	----
		Aroclor 1262	37324-23-5	E687	0.186 mg/kg	0.2 mg/kg	93.4	50.0	150	----
		Aroclor 1268	11100-14-4	E687	0.186 mg/kg	0.2 mg/kg	93.4	50.0	150	----

Reference Material (RM) Report

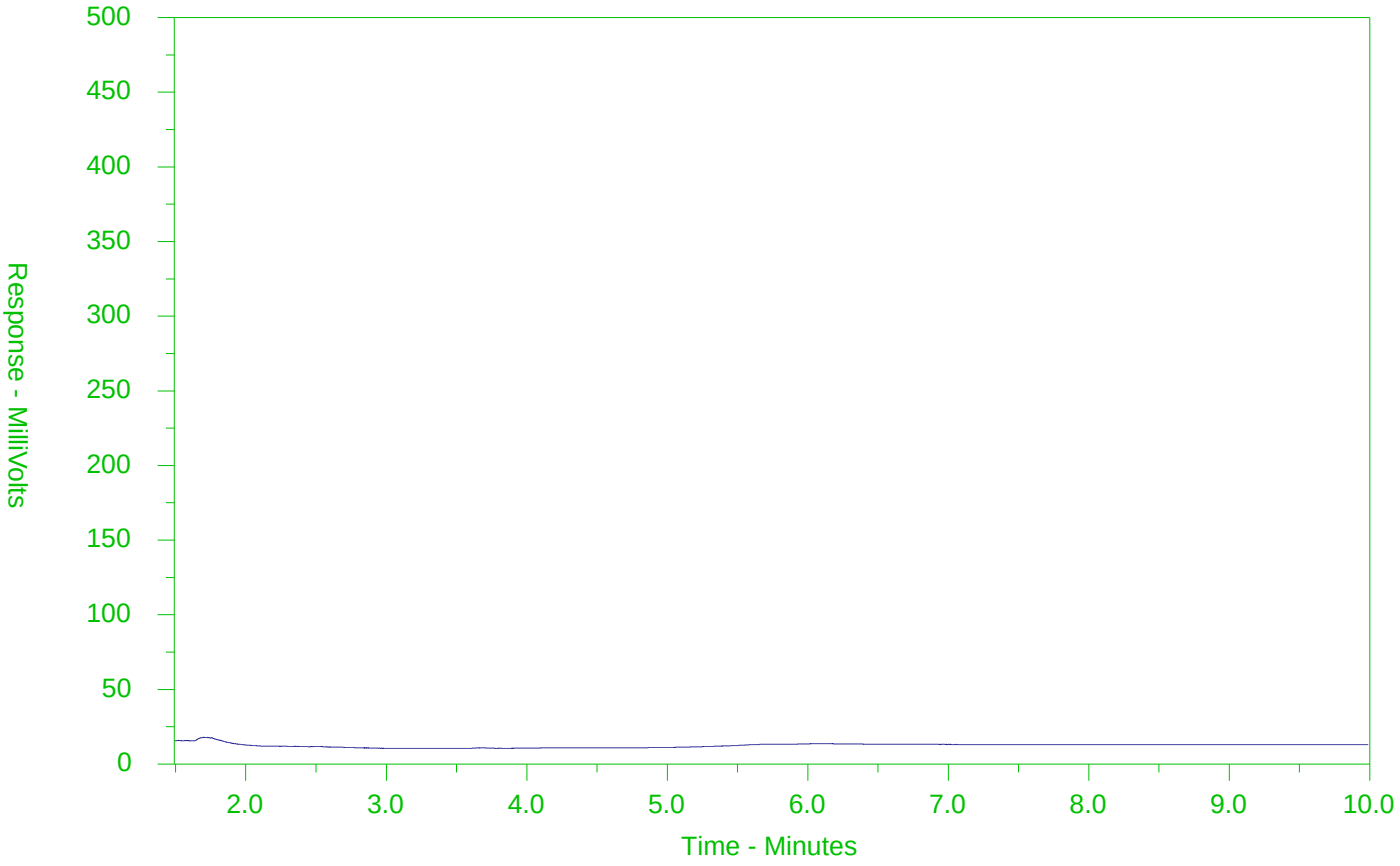
A Reference Material (RM) is a homogenous material with known and well-established analyte concentrations. RMs are processed in an identical manner to test samples, and are used to monitor and control the accuracy and precision of a test method for a typical sample matrix. RM results are expressed as percent recovery of the target analyte concentration. RM targets may be certified target concentrations provided by the RM supplier, or may be ALS long-term mean values (for empirical test methods).

Sub-Matrix:

					Reference Material (RM) Report				
					RM Target	Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Reference Material ID	Analyte	CAS Number	Method	Concentration	RM	Low	High	Qualifier
Physical Tests (QCLot: 518750)									
	RM	conductivity (1:2 leachate)	----	E100-L	3396 µS/cm	99.5	70.0	130	----
Metals (QCLot: 518747)									
	RM	mercury	7439-97-6	E510	0.0585 mg/kg	99.6	70.0	130	----
Metals (QCLot: 518748)									
	RM	antimony	7440-36-0	E440	3.99 mg/kg	95.6	70.0	130	----
	RM	arsenic	7440-38-2	E440	3.73 mg/kg	106	70.0	130	----
	RM	barium	7440-39-3	E440	105 mg/kg	114	70.0	130	----
	RM	beryllium	7440-41-7	E440	0.349 mg/kg	113	70.0	130	----
	RM	boron	7440-42-8	E440	8.5 mg/kg	107	40.0	160	----
	RM	cadmium	7440-43-9	E440	0.91 mg/kg	105	70.0	130	----
	RM	chromium	7440-47-3	E440	101 mg/kg	108	70.0	130	----
	RM	cobalt	7440-48-4	E440	6.9 mg/kg	106	70.0	130	----
	RM	copper	7440-50-8	E440	123 mg/kg	107	70.0	130	----
	RM	lead	7439-92-1	E440	267 mg/kg	108	70.0	130	----
	RM	molybdenum	7439-98-7	E440	1.03 mg/kg	102	70.0	130	----
	RM	nickel	7440-02-0	E440	26.7 mg/kg	107	70.0	130	----
	RM	silver	7440-22-4	E440	4.06 mg/kg	97.3	70.0	130	----
	RM	thallium	7440-28-0	E440	0.0786 mg/kg	89.8	40.0	160	----
	RM	uranium	7440-61-1	E440	0.52 mg/kg	97.2	70.0	130	----
	RM	vanadium	7440-62-2	E440	32.7 mg/kg	107	70.0	130	----
	RM	zinc	7440-66-6	E440	297 mg/kg	106	70.0	130	----
Metals (QCLot: 518749)									
	RM	calcium, soluble ion content	7440-70-2	E484	178.9 mg/L	102	70.0	130	----
	RM	magnesium, soluble ion content	7439-95-4	E484	53.95 mg/L	102	70.0	130	----
	RM	sodium, soluble ion content	17341-25-2	E484	199.6 mg/L	103	70.0	130	----
Metals (QCLot: 518751)									
	RM	boron, hot water soluble	7440-42-8	E487	5.92 mg/kg	94.6	70.0	130	----
Speciated Metals (QCLot: 518990)									
	RM	chromium, hexavalent [Cr VI]	18540-29-9	E532	131 mg/kg	97.4	70.0	130	----

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2205302-002-E601.SG-L
Client Sample ID: S-12581540-220606-JB-MW1-22-1.5 TO 2.1



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →	← Motor Oils/Lube Oils/Grease →		
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

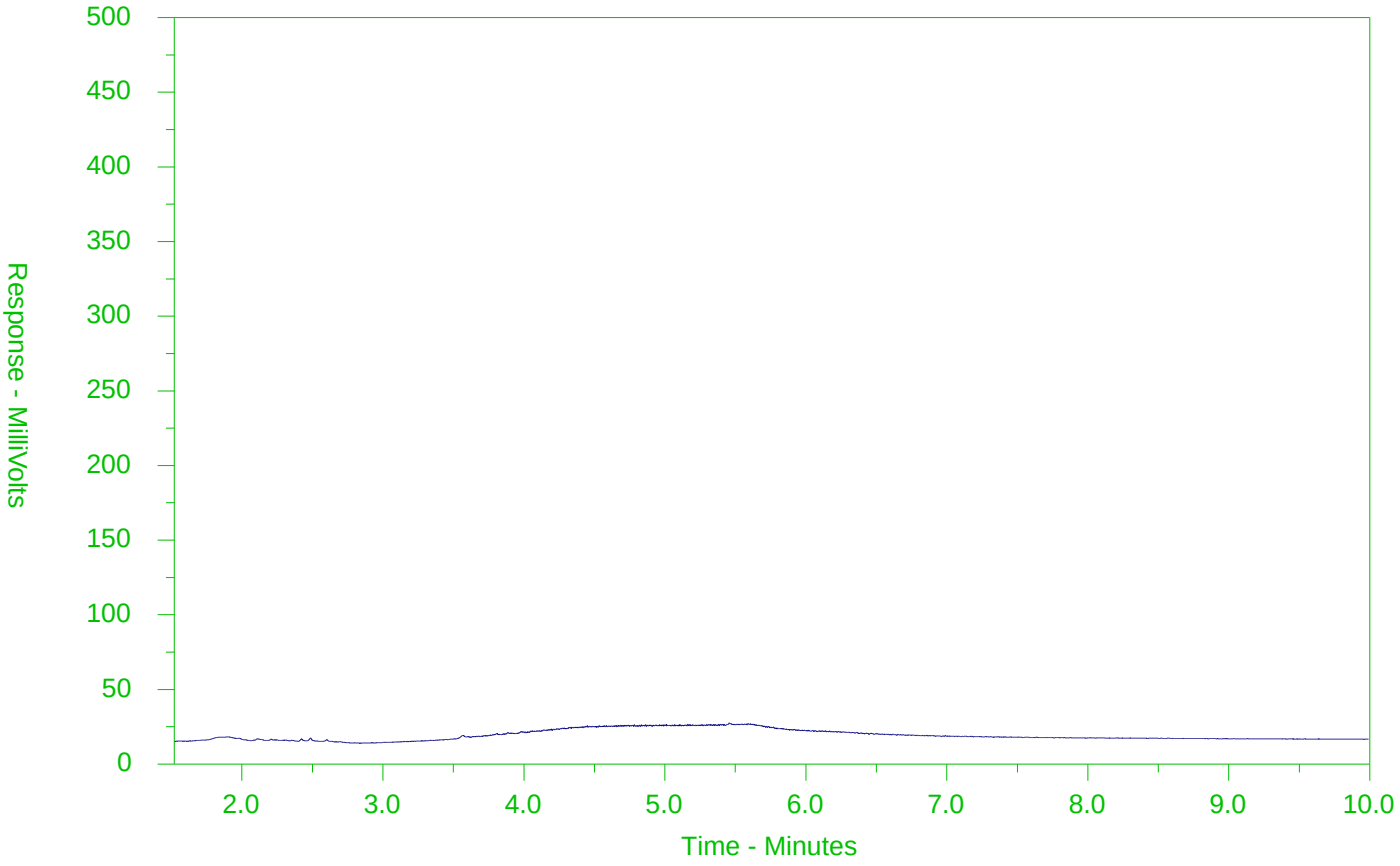
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2205302-003-E601.SG-L
Client Sample ID: S-12581540-220606-JB-MW1-22-3.0 TO 3.3



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →	← Motor Oils/Lube Oils/Grease →		
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

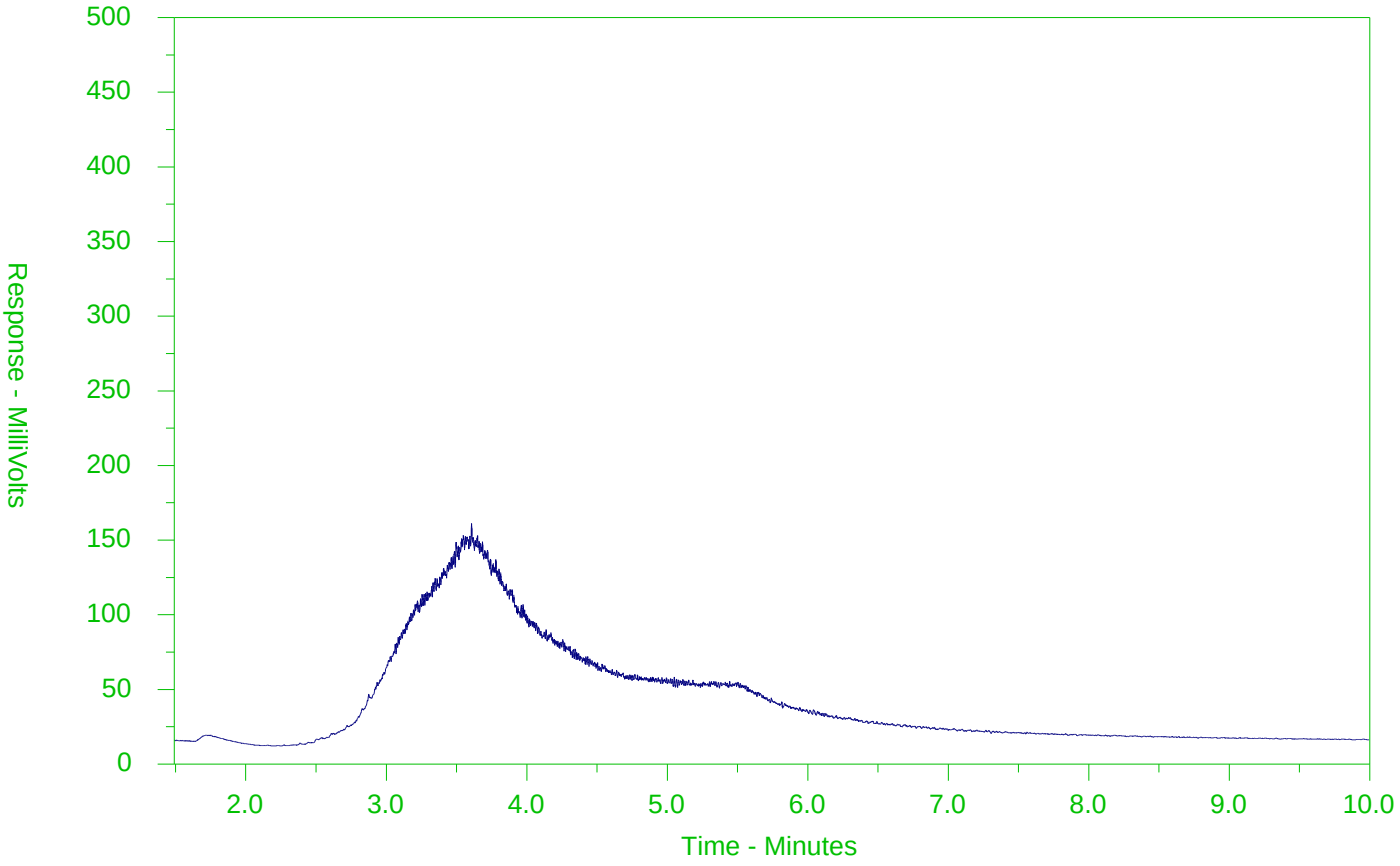
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2205302-005-E601.SG-L
Client Sample ID: S-12581540-220606-JB-MW2-22-0.0 TO 0.6



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →	← Motor Oils/Lube Oils/Grease →		
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

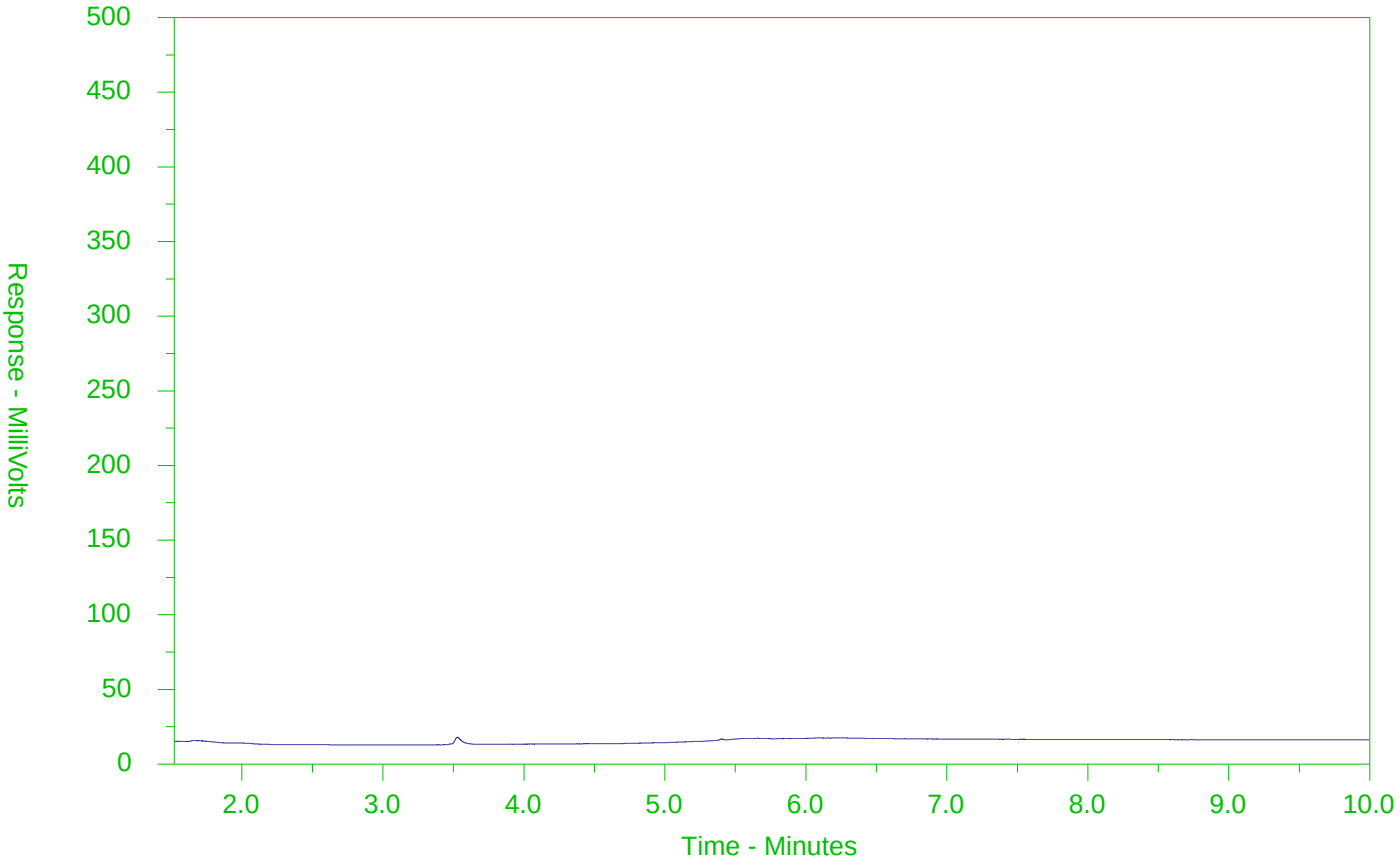
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2205302-007-E601.SG-L
Client Sample ID: S-12581540-220606-JB-MW2-22-2.3 TO 2.5



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →	← Motor Oils/Lube Oils/Grease →		
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

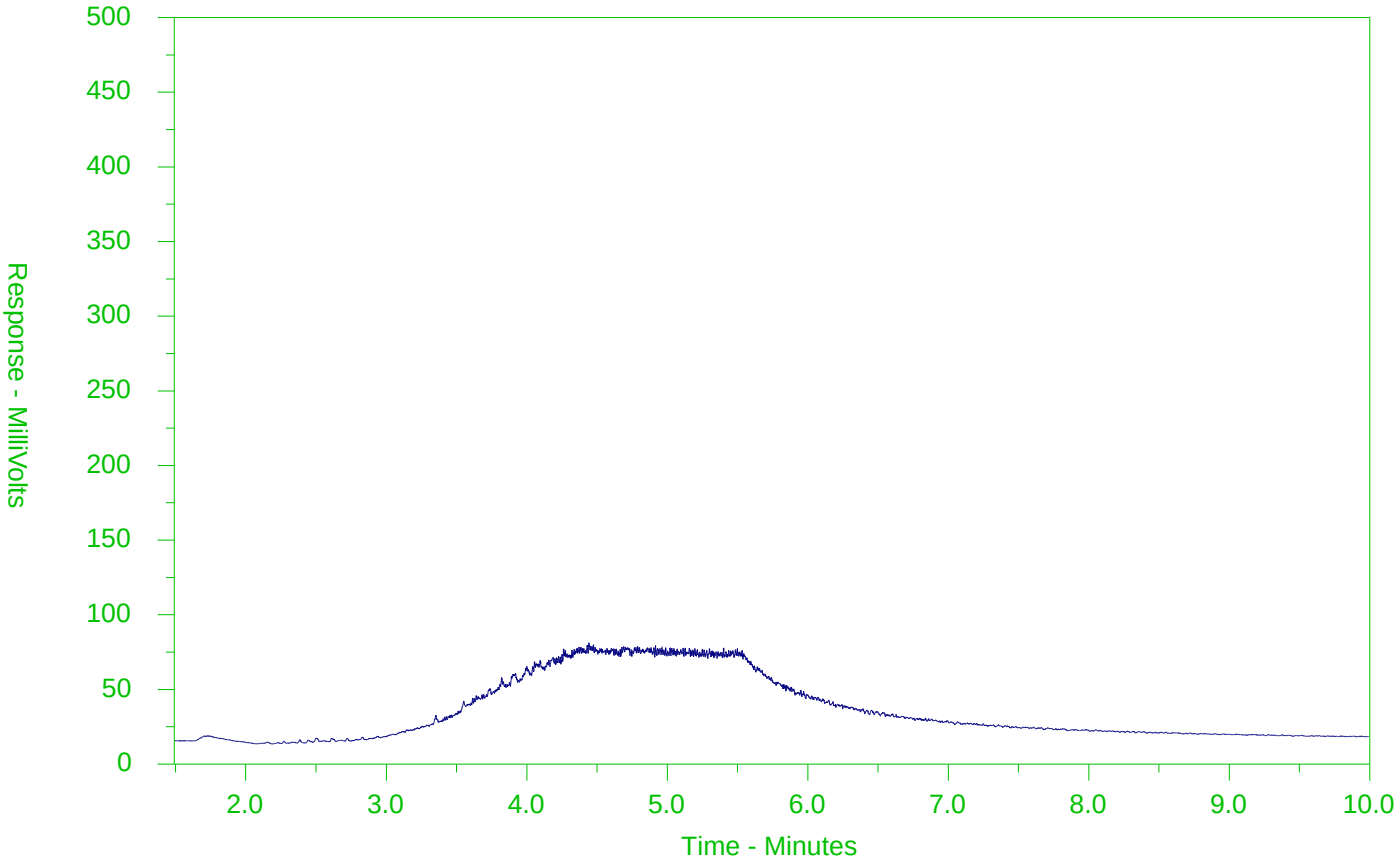
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2205302-009-E601.SG-L
Client Sample ID: S-12581540-220606-JB-MW3-22-0.7 TO 1.3



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →	← Motor Oils/Lube Oils/Grease →		
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

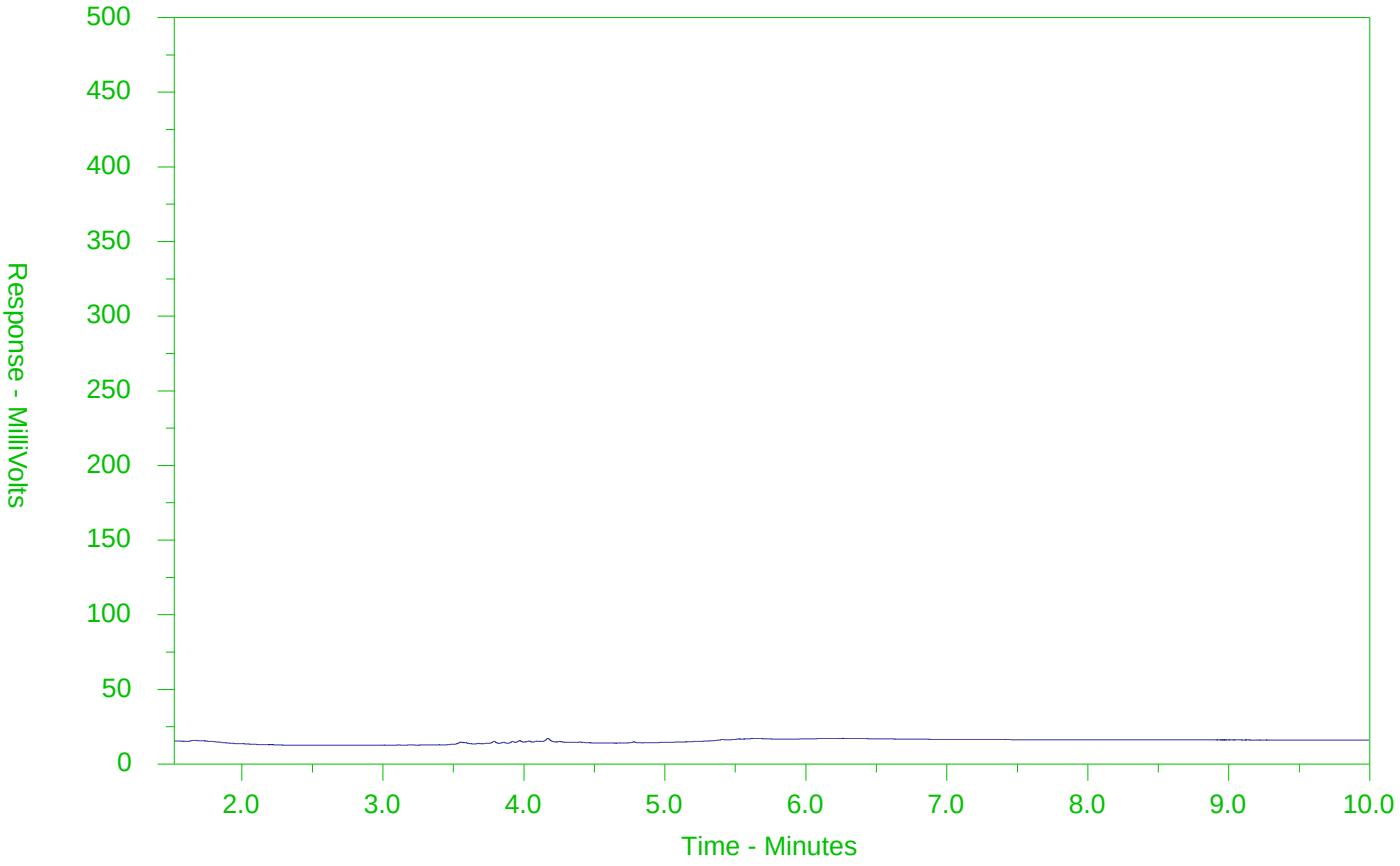
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2205302-010-E601.SG-L
Client Sample ID: S-12581540-220606-JB-MW3-22-2.3 TO 2.7



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →	← Motor Oils/Lube Oils/Grease →		
← Diesel/Jet Fuels →			

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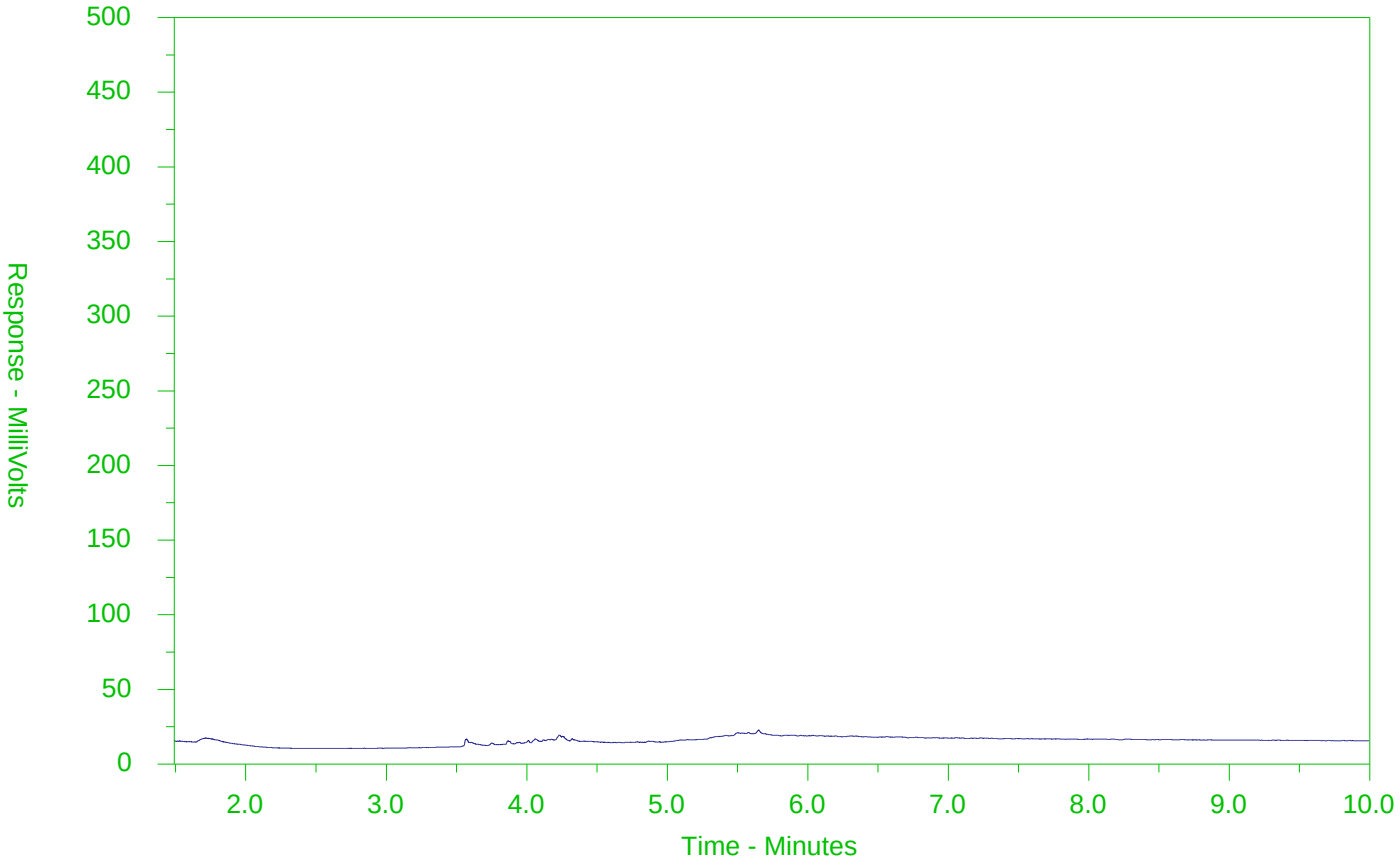
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2205302-011-E601.SG-L
Client Sample ID: S-12581540-220606-JB-MW3-22-2.3 TO 2.7X



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →	← Motor Oils/Lube Oils/Grease →		
← Diesel/Jet Fuels →			

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The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

Chain of Custody (COC) / Analytical Request Form

COC Number: 20 - 951939

Page 1 of 2

Canada Toll Free: 1 800 668 9878

www.alsglobal.com

Report To	Contact and company name below will appear on the final report
Company:	GHD LTD (ACCT 13791)
Contact:	Jennifer Balkwill
Phone:	519 884 0510
	Company address below will appear on the final report
Street:	455 Phillip St
City/Province:	WATERLOO, ON
Postal Code:	N2L 3X2
Invoice To	Same as Report To ☑ YES ☐ NO
	Copy of Invoice with Report ☐ YES ☑ NO
Company:	GHD LTD (ACCT 13791)
Contact:	

Reports / Recipients	
Select Report Format:	☑ PDF ☐ EXCEL ☐ EDD (DIGITAL)
Merge QC/QCI Reports with COA	☐ YES ☐ NO ☐ N/A
☐ Compare Results to Criteria on Report - provide details below if box checked	
Select Distribution:	☑ EMAIL ☐ MAIL ☐ FAX
Email 1 or Fax	jennifer.balkwill@ghd.com
Email 2	
Email 3	

Invoice Recipients	
Select Invoice Distribution:	☑ EMAIL ☐ MAIL ☐ FAX
Email 1 or Fax	Invoicing-Canada@ghd.com
Email 2	

Turnaround Time (TAT) Requested
☑ Routine [R] if received by 3pm M-F - no surcharges apply
☐ 4 day [P4] if received by 3pm M-F - 20% rush surcharge minimum
☐ 3 day [P3] if received by 3pm M-F - 25% rush surcharge minimum
☐ 2 day [P2] if received by 3pm M-F - 50% rush surcharge minimum
☐ 1 day [E] if received by 3pm M-F - 100% rush surcharge minimum
☐ Same day [E2] if received by 10am M-S - 200% rush surcharge. Additional fees may apply to rush requests on weekends, statutory holidays and non-routine tests
Date and Time Required for all E&P TATs:
For all tests with rush TATs requested, please contact your AM to confirm availability.

AFFIX ALS BARCODE LABEL HERE (ALS use only)

Project Information	
ALS Account # / Quote #	
Job #:	12581540
PO / AFE:	735-003274
LSD:	

Oil and Gas Required Fields (client use)	
AFE/Cost Center:	PO#
Major/Minor Code:	Routing Code:
Requisitioner:	
Location:	

ALS Lab Work Order # (ALS use only): WT2205302 JD1

ALS Contact: | Sampler:

Analysis Request — Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (ALS use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	O Reg M-I	PAH (PAH-511-WT)	VOC/PHC (VOC-F1-F4-511-WT)	PCB	VOC, F1 TRIBMUK	SAMPLES ON HOLD	EXTENDED STORAGE REQUIRED	SUSPECTED HAZARD (see notes)
	S-12581540-220606-JB-MW1-22-0.0 to 0.6	06-JUN-22	15:15	Soil	2	✓			✓				
	S-12581540-220606-JB-MW1-22-1.5 to 2.1		15:35		3		✓	✓					
	S-12581540-220606-JB-MW1-22-3.0 to 3.3		16:05		3			✓					
	S-12581540-220606-JB-MW1-22-0.0 to 0.6 X		15:15		1	✓							
	S-12581540-220606-JB-MW2-22-0.0 to 0.6		10:05		4	✓	✓	✓					
	S-12581540-220606-JB-MW2-22-0.7 to 1.3		10:40		1				✓				
	S-12581540-220606-JB-MW2-22-2.3 to 2.5		10:40		3			✓					
	S-12581540-220606-JB-MW3-22-0.0 to 0.6		12:50		2	✓			✓				
	S-12581540-220606-JB-MW3-22-0.7 to 1.3		13:00		3		✓	✓					
	S-12581540-220606-JB-MW3-22-2.3 to 2.7		13:25		3			✓					
	S-12581540-220606-JB-MW3-22-2.3 to 2.7 X		13:25		3			✓					
	S-12581540-220606-JB-MW3-22-0.0 to 0.6 X		12:50		1				✓				

Environmental Division Waterloo
Work Order Reference
WT2205302

Telephone : +1 519 886 6910

Drinking Water (DW) Samples[1] (client use)	Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)
Are samples taken from a Regulated DW System? ☐ YES ☑ NO	
Are samples for human consumption/ use? ☐ YES ☑ NO	

SAMPLE RECEIPT DETAILS (ALS use only)

Cooling Method: ☐ NONE ☑ ICE ☐ ICE PACKS ☐ FROZEN ☐ COOLING INITIATED

Submission Comments identified on Sample Receipt Notification: ☐ YES ☐ NO

Cooler Custody Seals Intact: ☐ YES ☐ N/A Sample Custody Seals Intact: ☐ YES ☐ N/A

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
0.9							

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (ALS use only)			FINAL SHIPMENT RECEPTION (ALS use only)		
Released by: Jeffrey Bisson	Date: 22-06-09	Time: 1430	Received by: JD1	Date: 06/09/22	Time: 15:23	Received by:	Date:	Time:

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

Chain of Custody (COC) / Analytical Request Form

COC Number: 20 - 951936 JDI

Canada Toll Free: 1 800 668 9878

Page 2 of 2

www.alsglobal.com

Report To	Contact and company name below will appear on the final report	Reports / Recipients	Turnaround Time (TAT) Requested
Company:	GHD LTD (ACCT 13791)	Select Report Format: ☑ PDF ☐ EXCEL ☐ EDD (DIGITAL)	☑ Routine [R] If received by 3pm M-F - no surcharges apply
Contact:	J. BALKWILL	Merge QC/QCI Reports with COA ☐ YES ☐ NO ☐ N/A	☐ 4 day [P4] If received by 3pm M-F - 20% rush surcharge minimum
Phone:	519 884 0510	☐ Compare Results to Criteria on Report - provide details below if box checked	☐ 3 day [P3] If received by 3pm M-F - 25% rush surcharge minimum
	Company address below will appear on the final report	Select Distribution: ☑ EMAIL ☐ MAIL ☐ FAX	☐ 2 day [P2] If received by 3pm M-F - 50% rush surcharge minimum
Street:	455 Phillip St.	Email 1 or Fax jennifer.balkwille ghd.com	☐ 1 day [E] If received by 3pm M-F - 100% rush surcharge minimum
City/Province:	WATERLOO, ON	Email 2	☐ Same day [E2] If received by 10am M-S - 200% rush surcharge. Additional fees may apply to rush requests on weekends, statutory holidays and non-routine tests.
Postal Code:	N2L 3X2	Email 3	**AFFIX ALS BARCODE LABEL HERE (ALS use only)**
Invoice To	Same as Report To ☑ YES ☐ NO	**Invoice Recipients**	**Date and Time Required for all E&P TATs:** :mm a
	Copy of Invoice with Report ☐ YES ☑ NO	Select Invoice Distribution: ☐ EMAIL ☐ MAIL ☐ FAX	For all tests with rush TATs requested, please contact your AM to confirm availability.
Company:	GHD LTD (ACCT 13791)	Email 1 or Fax	
Contact:		Email 2	

Project Information		Oil and Gas Required Fields (client use)	
ALS Account # / Quote #:		AFE/Cost Center:	PO#
Job #:	12581540	Major/Minor Code:	Routing Code:
PO / AFE:	735-003274	Requisitioner:	
LSD:		Location:	
ALS Lab Work Order # (ALS use only):	WT2205302 JDI	ALS Contact:	Sampler:

ALS Sample # (ALS use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	VOC, F, TripBlank	SAMPLES ON HOLD	EXTENDED STORAGE REQUIRED	SUSPECTED HAZARD (see notes)
	S-12581540-220606-JB-TRIP BLANK.	06-JUN-22	18:00	Soil	1	✓			

Analysis Request — Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

Drinking Water (DW) Samples[1] (client use)	Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)
Are samples taken from a Regulated DW System? ☐ YES ☑ NO	
Are samples for human consumption/ use? ☐ YES ☑ NO	

SAMPLE RECEIPT DETAILS (ALS use only)

Cooling Method: ☐ NONE ☑ ICE ☐ ICE PACKS ☐ FROZEN ☐ COOLING INITIATED

Submission Comments identified on Sample Receipt Notification: ☐ YES ☐ NO

Cooler Custody Seals Intact: ☐ YES ☐ N/A Sample Custody Seals Intact: ☐ YES ☐ N/A

INITIAL COOLER TEMPERATURES °C			FINAL COOLER TEMPERATURES °C		
0.9					

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (ALS use only)			FINAL SHIPMENT RECEPTION (ALS use only)		
Released by: Jeffrey Bisson	Date: 22-06-09	Time: 1450	Received by: JDI	Date: 06/09/22	Time: 13:25	Received by:	Date:	Time:

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

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Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a **Regulated Drinking Water (DW) System**, please submit using an **Authorized DW COC form**.

Chain of Custody (COC) / Analytical Request Form

COC Number: 20 - 951939

Page 1 of 2

www.alsglobal.com

Canada Toll Free: 1 800 668 9878

Report To	Contact and company name below will appear on the final report
Company:	GHD LTD (ACCT 13791)
Contact:	Jennifer Balkwill
Phone:	519 884 0510
	Company address below will appear on the final report
Street:	455 Phillip St
City/Province:	Waterloo, ON
Postal Code:	N2L 3X2
Invoice To	Same as Report To ☑ YES ☐ NO
	Copy of Invoice with Report ☐ YES ☑ NO
Company:	GHD LTD (ACCT 13791)
Contact:	

Reports / Recipients	
Select Report Format:	☑ PDF ☐ EXCEL ☐ EDD (DIGITAL)
Merge QC/QCI Reports with COA	☐ YES ☐ NO ☐ N/A
☐ Compare Results to Criteria on Report - provide details below if box checked	
Select Distribution:	☑ EMAIL ☐ MAIL ☐ FAX
Email 1 or Fax	jennifer.balkwill@ghd.com
Email 2	
Email 3	

Invoice Recipients	
Select Invoice Distribution:	☑ EMAIL ☐ MAIL ☐ FAX
Email 1 or Fax	Invoicing-Canada@ghd.com
Email 2	

Project Information		Oil and Gas Required Fields (client use)	
ALS Account # / Quote #:		AFE/Cost Center:	PO#
Job #:	12581540	Major/Minor Code:	Routing Code:
PO / AFE:	735-003274	Requisitioner:	
LSD:		Location:	
ALS Lab Work Order # (ALS use only):	WT2205302 JD1	ALS Contact:	Sampler:

Turnaround Time (TAT) Requested

☑ Routine [R] if received by 3pm M-F - no surcharges apply
☐ 4 day [P4] if received by 3pm M-F - 20% rush surcharge minimum
☐ 3 day [P3] if received by 3pm M-F - 25% rush surcharge minimum
☐ 2 day [P2] if received by 3pm M-F - 50% rush surcharge minimum
☐ 1 day [E] if received by 3pm M-F - 100% rush surcharge minimum
☐ Same day [E2] if received by 10am M-S - 200% rush surcharge. Additional fees may apply to rush requests on weekends, statutory holidays and non-routine tests

Date and Time Required for all E&P TATs:

For all tests with rush TATs requested, please contact your AM to confirm availability.

AFFIX ALS BARCODE LABEL HERE (ALS use only)

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (ALS use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	O Reg Mtl	PAH (PAH-511-WT)	VOC/PHC (VOC-F1-F4-511-WT)	PCB	VOC, F1 TRIBLKHC	SAMPLES ON HOLD	EXTENDED STORAGE REQUIRED	SUSPECTED HAZARD (see notes)
	S-12581540-220606-JB-MW1-22-0.0 to 0.6	06-JUN-22	15:15	Soil	2	✓			✓				
	S-12581540-220606-JB-MW1-22-1.5 to 2.1		15:35		3		✓	✓					
	S-12581540-220606-JB-MW1-22-3.0 to 3.3		16:05		3			✓					
	S-12581540-220606-JB-MW1-22-0.0 to 0.6 X		15:15		1	✓							
	S-12581540-220606-JB-MW2-22-0.0 to 0.6		10:05		4	✓	✓	✓					
	S-12581540-220606-JB-MW2-22-0.7 to 1.3		10:40		1				✓				
	S-12581540-220606-JB-MW2-22-2.3 to 2.5		10:40		3			✓					
	S-12581540-220606-JB-MW3-22-0.0 to 0.6		12:50		2	✓			✓				
	S-12581540-220606-JB-MW3-22-0.7 to 1.3		13:00		3		✓	✓					
	S-12581540-220606-JB-MW3-22-2.3 to 2.7		13:25		3			✓					
	S-12581540-220606-JB-MW3-22-2.3 to 2.7 X		18:25		3			✓					
	S-12581540-220606-JB-MW3-22-0.0 to 0.6 X		12:50		1				✓				

Environmental Division
Waterloo
Work Order Reference
WT2205302

Telephone : +1 519 886 6910

Drinking Water (DW) Samples[1] (client use)	Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)
Are samples taken from a Regulated DW System? ☐ YES ☑ NO	
Are samples for human consumption/ use? ☐ YES ☑ NO	

SAMPLE RECEIPT DETAILS (ALS use only)

Cooling Method: ☐ NONE ☑ ICE ☐ ICE PACKS ☐ FROZEN ☐ COOLING INITIATED

Submission Comments identified on Sample Receipt Notification: ☐ YES ☐ NO

Cooler Custody Seals Intact: ☐ YES ☐ N/A Sample Custody Seals Intact: ☐ YES ☐ N/A

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
09				8.7			

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (ALS use only)			FINAL SHIPMENT RECEPTION (ALS use only)		
Released by: Jeffrey Bisson	Date: 22-06-09	Time: 430	Received by: JD1	Date: 06/09/22	Time: 15:23	Received by:	Date: 6/10/22	Time: 1030

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

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1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

Chain of Custody (COC) / Analytical Request Form

COC Number: 20 - 951936 JDI

Canada Toll Free: 1 800 668 9878

Page 2 of 2

www.alsglobal.com

Report To	Contact and company name below will appear on the final report	Reports / Recipients	Turnaround Time (TAT) Requested
Company:	GHD LTD (ACCT 13791)	Select Report Format: ☑ PDF ☐ EXCEL ☐ EDD (DIGITAL)	☑ Routine [R] if received by 3pm M-F - no surcharges apply
Contact:	J. BALKWILL	Merge QC/QCI Reports with COA ☐ YES ☐ NO ☐ N/A	☐ 4 day [P4] if received by 3pm M-F - 20% rush surcharge minimum
Phone:	519 884 0510	☐ Compare Results to Criteria on Report - provide details below if box checked	☐ 3 day [P3] if received by 3pm M-F - 25% rush surcharge minimum
	Company address below will appear on the final report	Select Distribution: ☑ EMAIL ☐ MAIL ☐ FAX	☐ 2 day [P2] if received by 3pm M-F - 50% rush surcharge minimum
Street:	455 Phillip St.	Email 1 or Fax jennifer.balkwille ghd.com	☐ 1 day [E] if received by 3pm M-F - 100% rush surcharge minimum
City/Province:	WATERLOO, ON	Email 2	☐ Same day [E2] if received by 10am M-S - 200% rush surcharge. Additional fees may apply to rush requests on weekends, statutory holidays and non-routine tests
Postal Code:	N2L 3X2	Email 3	AFFIX ALS BARCODE LABEL HERE (ALS use only)
Invoice To	Same as Report To ☑ YES ☐ NO	Invoice Recipients	Date and Time Required for all E&P TATs:
	Copy of Invoice with Report ☐ YES ☑ NO	Select Invoice Distribution: ☐ EMAIL ☐ MAIL ☐ FAX	For all tests with rush TATs requested, please contact your AM to confirm availability.
Company:	GHD LTD (ACCT 13791)	Email 1 or Fax	
Contact:		Email 2	

Project Information		Oil and Gas Required Fields (client use)	
ALS Account # / Quote #:		AFE/Cost Center:	PO#
Job #:	12581540	Major/Minor Code:	Routing Code:
PO / AFE:	735-003274	Requisitioner:	
LSD:		Location:	
ALS Lab Work Order # (ALS use only):	WT2205307 JDI	ALS Contact:	Sampler:

Analysis Request

ALS Sample # (ALS use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	VOC, F, TRIP BLANK	SAMPLES ON HOLD	EXTENDED STORAGE REQUIRED	SUSPECTED HAZARD (see notes)
	S-12581540-220606-JB-TRIP BLANK.	06-JUN-22	18:00	Soil	1	✓			

Drinking Water (DW) Samples[1] (client use)	Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)
Are samples taken from a Regulated DW System? ☐ YES ☑ NO	
Are samples for human consumption/ use? ☐ YES ☑ NO	

SAMPLE RECEIPT DETAILS (ALS use only)

Cooling Method: ☐ NONE ☑ ICE ☐ ICE PACKS ☐ FROZEN ☐ COOLING INITIATED

Submission Comments identified on Sample Receipt Notification: ☐ YES ☐ NO

Cooler Custody Seals Intact: ☐ YES ☐ N/A Sample Custody Seals Intact: ☐ YES ☐ N/A

INITIAL COOLER TEMPERATURES °C	FINAL COOLER TEMPERATURES °C
0.9	3.7

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (ALS use only)			FINAL SHIPMENT RECEPTION (ALS use only)		
Released by: Jeffrey Bisson	Date: 22-06-09	Time: 1490	Received by: JDI	Date: 06/09/22	Time: 13:25	Received by:	Date: 6/10/22	Time: 1030

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

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1. If any water samples are taken from a **Regulated Drinking Water (DW) System**, please submit using an **Authorized DW COC form**.

CERTIFICATE OF ANALYSIS

Work Order	: **WT2205480**	Page	: 1 of 14
Client	: **GHD Limited**	Laboratory	: Waterloo - Environmental
Contact	: Jennifer Balkwill	Account Manager	: Rick Hawthorne
Address	: 455 Phillip Street Waterloo ON Canada N2L 3X2	Address	: 60 Northland Road, Unit 1 Waterloo ON Canada N2V 2B8
Telephone	: ----	Telephone	: +1 519 886 6910
Project	: 12581540	Date Samples Received	: 13-Jun-2022 10:30
PO	: 735-003274	Date Analysis Commenced	: 13-Jun-2022
C-O-C number	: ----	Issue Date	: 22-Jun-2022 15:50
Sampler	: CLIENT		
Site	: ----		
Quote number	: 12581540 - City of Mississauga		
No. of samples received	: 7		
No. of samples analysed	: 7		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with FDA 21 CFR Part 11.

Signatories	*Position*	*Laboratory Department*
Amanda Ganouri-Lumsden	Department Manager - Microbiology and Prep	Centralized Prep, Waterloo, Ontario
Jeremy Gingras	Team Leader - Semi-Volatile Instrumentation	Organics, Waterloo, Ontario
Jocelyn Kennedy	Department Manager - Semi-Volatile Organics	Organics, Waterloo, Ontario
Jon Fisher	Department Manager - Inorganics	Inorganics, Waterloo, Ontario
Jon Fisher	Department Manager - Inorganics	Metals, Waterloo, Ontario
Sarah Birch	Team Leader - Volatiles	Organics, Waterloo, Ontario

General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.
Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key : CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances
LOR: Limit of Reporting (detection limit).

Unit	*Description*
-	No Unit
%	percent
mg/kg	milligrams per kilogram
mg/L	milligrams per litre
mS/cm	millisiemens per centimetre
pH units	pH units

>: greater than.
<: less than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Sample Comments

Sample	Client Id	*Comment*
WT2205480-001	S-12581540-220610-JB-MW4-22-0.05-0.6	RRQC: Silver recovery outside of ALS DQOs due to issue with standard. Reported data was not affected by this issue.
WT2205480-003	S-12581540-220610-JB-BH14-22-0.8-1.4	RRQC: Silver recovery outside of ALS DQOs due to issue with standard. Reported data was not affected by this issue.
WT2205480-004	S-12581540-220610-JB-BH13-22-0.0-0.6	RRQC: Silver recovery outside of ALS DQOs due to issue with standard. Reported data was not affected by this issue.
WT2205480-006	S-12581540-220610-JB-BH12-22-0.05-0.6	RRQC: Silver recovery outside of ALS DQOs due to issue with standard. Reported data was not affected by this issue.

Qualifiers

Qualifier	*Description*
DLM	*Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity).*
PRAR	*PCB pattern most closely resembles Aroclor reported. Match is not exact.*

Analytical Results

WT2205480-001

Sub-Matrix:**Soil**
(Matrix: **Soil/Solid**)

Client sample ID: S-12581540-220610-JB-MW4-22-0.05-0.6
Client sampling date / time: 10-Jun-2022 09:00

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Physical Tests								
conductivity (1:2 leachate)	----	0.175	0.00500	mS/cm	E100-L	15-Jun-2022	17-Jun-2022	521746
moisture	----	4.99	0.25	%	E144	-	13-Jun-2022	522344
pH (1:2 soil:CaCl2-aq)	----	7.78	0.10	pH units	E108A	14-Jun-2022	14-Jun-2022	522371
Cyanides								
cyanide, weak acid dissociable	----	<0.050	0.050	mg/kg	E336A	14-Jun-2022	14-Jun-2022	522364
Saturated Paste Extractables								
calcium, soluble ion content	7440-70-2	19.3	0.50	mg/L	E484	15-Jun-2022	16-Jun-2022	521745
magnesium, soluble ion content	7439-95-4	2.05	0.50	mg/L	E484	15-Jun-2022	16-Jun-2022	521745
sodium, soluble ion content	17341-25-2	6.02	0.50	mg/L	E484	15-Jun-2022	16-Jun-2022	521745
sodium adsorption ratio [SAR]	----	0.35	0.10	-	E484	15-Jun-2022	16-Jun-2022	521745
Metals								
antimony	7440-36-0	0.28	0.10	mg/kg	E440	15-Jun-2022	16-Jun-2022	521744
arsenic	7440-38-2	7.95	0.10	mg/kg	E440	15-Jun-2022	16-Jun-2022	521744
barium	7440-39-3	83.0	0.50	mg/kg	E440	15-Jun-2022	16-Jun-2022	521744
beryllium	7440-41-7	0.32	0.10	mg/kg	E440	15-Jun-2022	16-Jun-2022	521744
boron	7440-42-8	7.9	5.0	mg/kg	E440	15-Jun-2022	16-Jun-2022	521744
boron, hot water soluble	7440-42-8	0.18	0.10	mg/kg	E487	15-Jun-2022	15-Jun-2022	521747
cadmium	7440-43-9	0.455	0.020	mg/kg	E440	15-Jun-2022	16-Jun-2022	521744
chromium	7440-47-3	14.4	0.50	mg/kg	E440	15-Jun-2022	16-Jun-2022	521744
cobalt	7440-48-4	6.10	0.10	mg/kg	E440	15-Jun-2022	16-Jun-2022	521744
copper	7440-50-8	30.2	0.50	mg/kg	E440	15-Jun-2022	16-Jun-2022	521744
lead	7439-92-1	21.9	0.50	mg/kg	E440	15-Jun-2022	16-Jun-2022	521744
mercury	7439-97-6	0.0134	0.0050	mg/kg	E510	15-Jun-2022	15-Jun-2022	521743
molybdenum	7439-98-7	1.83	0.10	mg/kg	E440	15-Jun-2022	16-Jun-2022	521744
nickel	7440-02-0	13.0	0.50	mg/kg	E440	15-Jun-2022	16-Jun-2022	521744
selenium	7782-49-2	<0.20	0.20	mg/kg	E440	15-Jun-2022	16-Jun-2022	521744
silver	7440-22-4	<0.10	0.10	mg/kg	E440	15-Jun-2022	16-Jun-2022	521744
thallium	7440-28-0	0.094	0.050	mg/kg	E440	15-Jun-2022	16-Jun-2022	521744
uranium	7440-61-1	0.389	0.050	mg/kg	E440	15-Jun-2022	16-Jun-2022	521744
vanadium	7440-62-2	19.2	0.20	mg/kg	E440	15-Jun-2022	16-Jun-2022	521744
zinc	7440-66-6	162	2.0	mg/kg	E440	15-Jun-2022	16-Jun-2022	521744
Speciated Metals								
chromium, hexavalent [Cr VI]	18540-29-9	<0.10	0.66	mg/kg	E532	13-Jun-2022	15-Jun-2022	521773
Volatile Organic Compounds								
acetone	67-64-1	<0.50	0.50	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
benzene	71-43-2	<0.0050	0.0050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
bromodichloromethane	75-27-4	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
bromoform	75-25-2	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
bromomethane	74-83-9	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
carbon tetrachloride	56-23-5	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
chlorobenzene	108-90-7	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
chloroform	67-66-3	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
dibromochloromethane	124-48-1	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
dibromoethane, 1,2-	106-93-4	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
dichlorobenzene, 1,2-	95-50-1	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
dichlorobenzene, 1,3-	541-73-1	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
dichlorobenzene, 1,4-	106-46-7	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
dichlorodifluoromethane	75-71-8	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819

Analytical Results

WT2205480-001

Sub-Matrix: **Soil**
(Matrix: **Soil/Solid**)

Client sample ID: S-12581540-220610-JB-MW4-22-0.05-0.6
Client sampling date / time: 10-Jun-2022 09:00

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
dichloroethane, 1,1-	75-34-3	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
dichloroethane, 1,2-	107-06-2	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
dichloroethylene, 1,1-	75-35-4	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
dichloroethylene, cis-1,2-	156-59-2	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
dichloroethylene, trans-1,2-	156-60-5	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
dichloromethane	75-09-2	<0.045	0.045	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
dichloropropane, 1,2-	78-87-5	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
dichloropropylene, cis+trans-1,3-	542-75-6	<0.050	0.05	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
dichloropropylene, cis-1,3-	10061-01-5	<0.030	0.030	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
dichloropropylene, trans-1,3-	10061-02-6	<0.030	0.030	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
ethylbenzene	100-41-4	<0.015	0.015	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
hexane, n-	110-54-3	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
methyl ethyl ketone [MEK]	78-93-3	<0.50	0.50	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
methyl isobutyl ketone [MIBK]	108-10-1	<0.50	0.50	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
methyl-tert-butyl ether [MTBE]	1634-04-4	<0.040	0.040	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
styrene	100-42-5	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
tetrachloroethane, 1,1,1,2-	630-20-6	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
tetrachloroethane, 1,1,2,2-	79-34-5	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
tetrachloroethylene	127-18-4	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
toluene	108-88-3	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
trichloroethane, 1,1,1-	71-55-6	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
trichloroethane, 1,1,2-	79-00-5	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
trichloroethylene	79-01-6	<0.010	0.010	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
trichlorofluoromethane	75-69-4	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
vinyl chloride	75-01-4	<0.020	0.020	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
xylene, m+p-	179601-23-1	<0.030	0.030	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
xylene, o-	95-47-6	<0.030	0.030	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
xylenes, total	1330-20-7	<0.050	0.05	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
BTEX, total	----	<0.10	0.1	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
Volatile Organic Compounds Surrogates								
bromofluorobenzene, 4-	460-00-4	77.1	0.10	%	E611D	15-Jun-2022	15-Jun-2022	523819
difluorobenzene, 1,4-	540-36-3	90.5	0.10	%	E611D	15-Jun-2022	15-Jun-2022	523819
Hydrocarbons								
F1 (C6-C10)	----	<5.0	5.0	mg/kg	E581.F1	15-Jun-2022	15-Jun-2022	523820
F2 (C10-C16)	----	<10	10	mg/kg	E601.SG-L	13-Jun-2022	21-Jun-2022	521707
F2-naphthalene	----	<25	25	mg/kg	EC600	-	15-Jun-2022	-
F3 (C16-C34)	----	<50	50	mg/kg	E601.SG-L	13-Jun-2022	21-Jun-2022	521707
F3-PAH	n/a	<50	50	mg/kg	EC600	-	15-Jun-2022	-
F4 (C34-C50)	----	<50	50	mg/kg	E601.SG-L	13-Jun-2022	21-Jun-2022	521707
F1-BTEX	----	<5.0	5	mg/kg	EC580	-	16-Jun-2022	-
hydrocarbons, total (C6-C50)	----	<80	80	mg/kg	EC581	-	16-Jun-2022	-
chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG-L	13-Jun-2022	21-Jun-2022	521707
Hydrocarbons Surrogates								
bromobenzotrifluoride, 2- (F2-F4 surr)	392-83-6	77.9	1.0	%	E601.SG-L	13-Jun-2022	21-Jun-2022	521707
dichlorotoluene, 3,4-	97-75-0	80.9	1.0	%	E581.F1	15-Jun-2022	15-Jun-2022	523820
Polycyclic Aromatic Hydrocarbons								
acenaphthene	83-32-9	<0.050	0.050	mg/kg	E642F	14-Jun-2022	15-Jun-2022	522357
acenaphthylene	208-96-8	<0.050	0.050	mg/kg	E642F	14-Jun-2022	15-Jun-2022	522357

Analytical Results

WT2205480-001

Sub-Matrix: **Soil**
(Matrix: **Soil/Solid**)

Client sample ID: S-12581540-220610-JB-MW4-22-0.05-0.6
Client sampling date / time: 10-Jun-2022 09:00

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons								
anthracene	120-12-7	<0.050	0.050	mg/kg	E642F	14-Jun-2022	15-Jun-2022	522357
benz(a)anthracene	56-55-3	<0.050	0.050	mg/kg	E642F	14-Jun-2022	15-Jun-2022	522357
benzo(a)pyrene	50-32-8	<0.050	0.050	mg/kg	E642F	14-Jun-2022	15-Jun-2022	522357
benzo(b+j)fluoranthene	n/a	<0.050	0.050	mg/kg	E642F	14-Jun-2022	15-Jun-2022	522357
benzo(g,h,i)perylene	191-24-2	<0.050	0.050	mg/kg	E642F	14-Jun-2022	15-Jun-2022	522357
benzo(k)fluoranthene	207-08-9	<0.050	0.050	mg/kg	E642F	14-Jun-2022	15-Jun-2022	522357
chrysene	218-01-9	<0.050	0.050	mg/kg	E642F	14-Jun-2022	15-Jun-2022	522357
dibenz(a,h)anthracene	53-70-3	<0.050	0.050	mg/kg	E642F	14-Jun-2022	15-Jun-2022	522357
fluoranthene	206-44-0	<0.050	0.050	mg/kg	E642F	14-Jun-2022	15-Jun-2022	522357
fluorene	86-73-7	<0.050	0.050	mg/kg	E642F	14-Jun-2022	15-Jun-2022	522357
indeno(1,2,3-c,d)pyrene	193-39-5	<0.050	0.050	mg/kg	E642F	14-Jun-2022	15-Jun-2022	522357
methylnaphthalene, 1-	90-12-0	<0.030	0.030	mg/kg	E642F	14-Jun-2022	15-Jun-2022	522357
methylnaphthalene, 1+2-	----	<0.050	0.05	mg/kg	E642F	14-Jun-2022	15-Jun-2022	522357
methylnaphthalene, 2-	91-57-6	<0.030	0.030	mg/kg	E642F	14-Jun-2022	15-Jun-2022	522357
naphthalene	91-20-3	<0.010	0.010	mg/kg	E642F	14-Jun-2022	15-Jun-2022	522357
phenanthrene	85-01-8	<0.050	0.050	mg/kg	E642F	14-Jun-2022	15-Jun-2022	522357
pyrene	129-00-0	<0.050	0.050	mg/kg	E642F	14-Jun-2022	15-Jun-2022	522357
Polycyclic Aromatic Hydrocarbons Surrogates								
fluorobiphenyl, 2-	321-60-8	92.9	0.1	%	E642F	14-Jun-2022	15-Jun-2022	522357
terphenyl-d14, p-	1718-51-0	73.1	0.1	%	E642F	14-Jun-2022	15-Jun-2022	522357
Polychlorinated Biphenyls								
Aroclor 1016	12674-11-2	<0.010	0.010	mg/kg	E687	14-Jun-2022	15-Jun-2022	522358
Aroclor 1221	11104-28-2	<0.010	0.010	mg/kg	E687	14-Jun-2022	15-Jun-2022	522358
Aroclor 1232	11141-16-5	<0.010	0.010	mg/kg	E687	14-Jun-2022	15-Jun-2022	522358
Aroclor 1242	53469-21-9	<0.010	0.010	mg/kg	E687	14-Jun-2022	15-Jun-2022	522358
Aroclor 1248	12672-29-6	<0.010	0.010	mg/kg	E687	14-Jun-2022	15-Jun-2022	522358
Aroclor 1254	11097-69-1	<0.010	0.010	mg/kg	E687	14-Jun-2022	15-Jun-2022	522358
Aroclor 1260	11096-82-5	0.064 PRAR.	0.010	mg/kg	E687	14-Jun-2022	15-Jun-2022	522358
Aroclor 1262	37324-23-5	<0.010	0.010	mg/kg	E687	14-Jun-2022	15-Jun-2022	522358
Aroclor 1268	11100-14-4	<0.010	0.010	mg/kg	E687	14-Jun-2022	15-Jun-2022	522358
polychlorinated biphenyls [PCBs], total	----	0.064	0.030	mg/kg	E687	14-Jun-2022	15-Jun-2022	522358
Polychlorinated Biphenyls Surrogates								
fluorobiphenyl, 2-	321-60-8	81.0	0.1	%	E687	14-Jun-2022	15-Jun-2022	522358
terphenyl-d14, p-	1718-51-0	86.7	0.010	%	E687	14-Jun-2022	15-Jun-2022	522358

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

WT2205480-002

Sub-Matrix: **Soil**
(Matrix: **Soil/Solid**)

Client sample ID: S-12581540-220610-JB-MW4-22-1.5-2.1
Client sampling date / time: 10-Jun-2022 09:15

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Physical Tests								
moisture	----	9.35	0.25	%	E144	-	14-Jun-2022	522592
Volatile Organic Compounds								
acetone	67-64-1	<0.50	0.50	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819

Analytical Results

WT2205480-002

Sub-Matrix: **Soil**
(Matrix: **Soil/Solid**)

Client sample ID: S-12581540-220610-JB-MW4-22-1.5-2.1
Client sampling date / time: 10-Jun-2022 09:15

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
benzene	71-43-2	<0.0050	0.0050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
bromodichloromethane	75-27-4	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
bromoform	75-25-2	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
bromomethane	74-83-9	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
carbon tetrachloride	56-23-5	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
chlorobenzene	108-90-7	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
chloroform	67-66-3	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
dibromochloromethane	124-48-1	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
dibromoethane, 1,2-	106-93-4	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
dichlorobenzene, 1,2-	95-50-1	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
dichlorobenzene, 1,3-	541-73-1	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
dichlorobenzene, 1,4-	106-46-7	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
dichlorodifluoromethane	75-71-8	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
dichloroethane, 1,1-	75-34-3	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
dichloroethane, 1,2-	107-06-2	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
dichloroethylene, 1,1-	75-35-4	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
dichloroethylene, cis-1,2-	156-59-2	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
dichloroethylene, trans-1,2-	156-60-5	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
dichloromethane	75-09-2	<0.045	0.045	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
dichloropropane, 1,2-	78-87-5	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
dichloropropylene, cis+trans-1,3-	542-75-6	<0.050	0.05	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
dichloropropylene, cis-1,3-	10061-01-5	<0.030	0.030	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
dichloropropylene, trans-1,3-	10061-02-6	<0.030	0.030	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
ethylbenzene	100-41-4	<0.015	0.015	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
hexane, n-	110-54-3	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
methyl ethyl ketone [MEK]	78-93-3	<0.50	0.50	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
methyl isobutyl ketone [MIBK]	108-10-1	<0.50	0.50	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
methyl-tert-butyl ether [MTBE]	1634-04-4	<0.040	0.040	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
styrene	100-42-5	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
tetrachloroethane, 1,1,1,2-	630-20-6	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
tetrachloroethane, 1,1,2,2-	79-34-5	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
tetrachloroethylene	127-18-4	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
toluene	108-88-3	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
trichloroethane, 1,1,1-	71-55-6	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
trichloroethane, 1,1,2-	79-00-5	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
trichloroethylene	79-01-6	<0.010	0.010	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
trichlorofluoromethane	75-69-4	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
vinyl chloride	75-01-4	<0.020	0.020	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
xylene, m+p-	179601-23-1	<0.030	0.030	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
xylene, o-	95-47-6	<0.030	0.030	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
xylenes, total	1330-20-7	<0.050	0.05	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
BTEX, total	----	<0.10	0.1	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
Volatile Organic Compounds Surrogates								
bromofluorobenzene, 4-	460-00-4	75.8	0.10	%	E611D	15-Jun-2022	15-Jun-2022	523819
difluorobenzene, 1,4-	540-36-3	89.4	0.10	%	E611D	15-Jun-2022	15-Jun-2022	523819
Hydrocarbons								
F1 (C6-C10)	----	<5.0	5.0	mg/kg	E581.F1	15-Jun-2022	15-Jun-2022	523820
F2 (C10-C16)	----	<10	10	mg/kg	E601.SG-L	13-Jun-2022	21-Jun-2022	521707

Analytical Results

WT2205480-002

Sub-Matrix:**Soil** *Client sample ID:* S-12581540-220610-JB-MW4-22-1.5-2.1

(Matrix: **Soil/Solid**) *Client sampling date / time:* 10-Jun-2022 09:15

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Hydrocarbons								
F3 (C16-C34)	----	<50	50	mg/kg	E601.SG-L	13-Jun-2022	21-Jun-2022	521707
F4 (C34-C50)	----	<50	50	mg/kg	E601.SG-L	13-Jun-2022	21-Jun-2022	521707
F1-BTEX	----	<5.0	5	mg/kg	EC580	-	16-Jun-2022	-
hydrocarbons, total (C6-C50)	----	<80	80	mg/kg	EC581	-	16-Jun-2022	-
chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG-L	13-Jun-2022	21-Jun-2022	521707
Hydrocarbons Surrogates								
bromobenzotrifluoride, 2- (F2-F4 surr)	392-83-6	82.7	1.0	%	E601.SG-L	13-Jun-2022	21-Jun-2022	521707
dichlorotoluene, 3,4-	97-75-0	91.6	1.0	%	E581.F1	15-Jun-2022	15-Jun-2022	523820

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

WT2205480-003

Sub-Matrix:**Soil** *Client sample ID:* S-12581540-220610-JB-BH14-22-0.8-1.4

(Matrix: **Soil/Solid**) *Client sampling date / time:* 10-Jun-2022 11:40

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Physical Tests								
conductivity (1:2 leachate)	----	0.690	0.00500	mS/cm	E100-L	15-Jun-2022	17-Jun-2022	521746
moisture	----	9.23	0.25	%	E144	-	13-Jun-2022	522344
pH (1:2 soil:CaCl2-aq)	----	8.03	0.10	pH units	E108A	14-Jun-2022	14-Jun-2022	522371
Cyanides								
cyanide, weak acid dissociable	----	<0.050	0.050	mg/kg	E336A	14-Jun-2022	14-Jun-2022	522364
Saturated Paste Extractables								
calcium, soluble ion content	7440-70-2	4.23	0.50	mg/L	E484	15-Jun-2022	16-Jun-2022	521745
magnesium, soluble ion content	7439-95-4	0.64	0.50	mg/L	E484	15-Jun-2022	16-Jun-2022	521745
sodium, soluble ion content	17341-25-2	139	0.50	mg/L	E484	15-Jun-2022	16-Jun-2022	521745
sodium adsorption ratio [SAR]	----	16.6	0.10	-	E484	15-Jun-2022	16-Jun-2022	521745
Metals								
antimony	7440-36-0	0.18	0.10	mg/kg	E440	15-Jun-2022	16-Jun-2022	521744
arsenic	7440-38-2	7.11	0.10	mg/kg	E440	15-Jun-2022	16-Jun-2022	521744
barium	7440-39-3	164	0.50	mg/kg	E440	15-Jun-2022	16-Jun-2022	521744
beryllium	7440-41-7	0.71	0.10	mg/kg	E440	15-Jun-2022	16-Jun-2022	521744
boron	7440-42-8	9.3	5.0	mg/kg	E440	15-Jun-2022	16-Jun-2022	521744
boron, hot water soluble	7440-42-8	0.57	0.10	mg/kg	E487	15-Jun-2022	15-Jun-2022	521747
cadmium	7440-43-9	0.089	0.020	mg/kg	E440	15-Jun-2022	16-Jun-2022	521744
chromium	7440-47-3	23.6	0.50	mg/kg	E440	15-Jun-2022	16-Jun-2022	521744
cobalt	7440-48-4	10.8	0.10	mg/kg	E440	15-Jun-2022	16-Jun-2022	521744
copper	7440-50-8	37.9	0.50	mg/kg	E440	15-Jun-2022	16-Jun-2022	521744
lead	7439-92-1	6.12	0.50	mg/kg	E440	15-Jun-2022	16-Jun-2022	521744
mercury	7439-97-6	0.0186	0.0050	mg/kg	E510	15-Jun-2022	15-Jun-2022	521743
molybdenum	7439-98-7	0.66	0.10	mg/kg	E440	15-Jun-2022	16-Jun-2022	521744
nickel	7440-02-0	23.9	0.50	mg/kg	E440	15-Jun-2022	16-Jun-2022	521744
selenium	7782-49-2	<0.20	0.20	mg/kg	E440	15-Jun-2022	16-Jun-2022	521744
silver	7440-22-4	<0.10	0.10	mg/kg	E440	15-Jun-2022	16-Jun-2022	521744
thallium	7440-28-0	0.188	0.050	mg/kg	E440	15-Jun-2022	16-Jun-2022	521744
uranium	7440-61-1	0.413	0.050	mg/kg	E440	15-Jun-2022	16-Jun-2022	521744

Analytical Results

WT2205480-003

Sub-Matrix:**Soil** *Client sample ID:* S-12581540-220610-JB-BH14-22-0.8-1.4

(Matrix: **Soil/Solid**) *Client sampling date / time:* 10-Jun-2022 11:40

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Metals								
vanadium	7440-62-2	34.7	0.20	mg/kg	E440	15-Jun-2022	16-Jun-2022	521744
zinc	7440-66-6	51.9	2.0	mg/kg	E440	15-Jun-2022	16-Jun-2022	521744
Speciated Metals								
chromium, hexavalent [Cr VI]	18540-29-9	<0.10	0.66	mg/kg	E532	13-Jun-2022	15-Jun-2022	521773

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

WT2205480-004

Sub-Matrix:**Soil** *Client sample ID:* S-12581540-220610-JB-BH13-22-0.0-0.6 -

(Matrix: **Soil/Solid**) *Client sampling date / time:* 10-Jun-2022 13:35

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Physical Tests								
conductivity (1:2 leachate)	----	0.501	0.00500	mS/cm	E100-L	15-Jun-2022	17-Jun-2022	521746
moisture	----	10.0	0.25	%	E144	-	13-Jun-2022	522344
pH (1:2 soil:CaCl2-aq)	----	7.17	0.10	pH units	E108A	14-Jun-2022	14-Jun-2022	522371
Cyanides								
cyanide, weak acid dissociable	----	<0.050	0.050	mg/kg	E336A	14-Jun-2022	14-Jun-2022	522364
Saturated Paste Extractables								
calcium, soluble ion content	7440-70-2	21.8	0.50	mg/L	E484	15-Jun-2022	16-Jun-2022	521745
magnesium, soluble ion content	7439-95-4	3.44	0.50	mg/L	E484	15-Jun-2022	16-Jun-2022	521745
sodium, soluble ion content	17341-25-2	72.0	0.50	mg/L	E484	15-Jun-2022	16-Jun-2022	521745
sodium adsorption ratio [SAR]	----	3.78	0.10	-	E484	15-Jun-2022	16-Jun-2022	521745
Metals								
antimony	7440-36-0	0.84	0.10	mg/kg	E440	15-Jun-2022	16-Jun-2022	521744
arsenic	7440-38-2	6.87	0.10	mg/kg	E440	15-Jun-2022	16-Jun-2022	521744
barium	7440-39-3	130	0.50	mg/kg	E440	15-Jun-2022	16-Jun-2022	521744
beryllium	7440-41-7	0.37	0.10	mg/kg	E440	15-Jun-2022	16-Jun-2022	521744
boron	7440-42-8	9.3	5.0	mg/kg	E440	15-Jun-2022	16-Jun-2022	521744
boron, hot water soluble	7440-42-8	1.15	0.10	mg/kg	E487	15-Jun-2022	15-Jun-2022	521747
cadmium	7440-43-9	0.592	0.020	mg/kg	E440	15-Jun-2022	16-Jun-2022	521744
chromium	7440-47-3	42.5	0.50	mg/kg	E440	15-Jun-2022	16-Jun-2022	521744
cobalt	7440-48-4	7.54	0.10	mg/kg	E440	15-Jun-2022	16-Jun-2022	521744
copper	7440-50-8	27.1	0.50	mg/kg	E440	15-Jun-2022	16-Jun-2022	521744
lead	7439-92-1	43.3	0.50	mg/kg	E440	15-Jun-2022	16-Jun-2022	521744
mercury	7439-97-6	0.0209	0.0050	mg/kg	E510	15-Jun-2022	15-Jun-2022	521743
molybdenum	7439-98-7	1.19	0.10	mg/kg	E440	15-Jun-2022	16-Jun-2022	521744
nickel	7440-02-0	13.9	0.50	mg/kg	E440	15-Jun-2022	16-Jun-2022	521744
selenium	7782-49-2	0.23	0.20	mg/kg	E440	15-Jun-2022	16-Jun-2022	521744
silver	7440-22-4	<0.10	0.10	mg/kg	E440	15-Jun-2022	16-Jun-2022	521744
thallium	7440-28-0	0.082	0.050	mg/kg	E440	15-Jun-2022	16-Jun-2022	521744
uranium	7440-61-1	0.379	0.050	mg/kg	E440	15-Jun-2022	16-Jun-2022	521744
vanadium	7440-62-2	41.4	0.20	mg/kg	E440	15-Jun-2022	16-Jun-2022	521744
zinc	7440-66-6	75.1	2.0	mg/kg	E440	15-Jun-2022	16-Jun-2022	521744
Speciated Metals								
chromium, hexavalent [Cr VI]	18540-29-9	<0.10	0.66	mg/kg	E532	13-Jun-2022	15-Jun-2022	521773

Analytical Results

WT2205480-004

Sub-Matrix: **Soil**
(Matrix: **Soil/Solid**)

Client sample ID: S-12581540-220610-JB-BH13-22-0.0-0.6 -
Client sampling date / time: 10-Jun-2022 13:35

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
acetone	67-64-1	<0.50	0.50	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
benzene	71-43-2	<0.0050	0.0050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
bromodichloromethane	75-27-4	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
bromoform	75-25-2	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
bromomethane	74-83-9	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
carbon tetrachloride	56-23-5	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
chlorobenzene	108-90-7	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
chloroform	67-66-3	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
dibromochloromethane	124-48-1	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
dibromoethane, 1,2-	106-93-4	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
dichlorobenzene, 1,2-	95-50-1	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
dichlorobenzene, 1,3-	541-73-1	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
dichlorobenzene, 1,4-	106-46-7	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
dichlorodifluoromethane	75-71-8	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
dichloroethane, 1,1-	75-34-3	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
dichloroethane, 1,2-	107-06-2	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
dichloroethylene, 1,1-	75-35-4	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
dichloroethylene, cis-1,2-	156-59-2	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
dichloroethylene, trans-1,2-	156-60-5	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
dichloromethane	75-09-2	<0.045	0.045	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
dichloropropane, 1,2-	78-87-5	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
dichloropropylene, cis+trans-1,3-	542-75-6	<0.050	0.05	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
dichloropropylene, cis-1,3-	10061-01-5	<0.030	0.030	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
dichloropropylene, trans-1,3-	10061-02-6	<0.030	0.030	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
ethylbenzene	100-41-4	<0.015	0.015	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
hexane, n-	110-54-3	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
methyl ethyl ketone [MEK]	78-93-3	<0.50	0.50	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
methyl isobutyl ketone [MIBK]	108-10-1	<0.50	0.50	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
methyl-tert-butyl ether [MTBE]	1634-04-4	<0.040	0.040	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
styrene	100-42-5	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
tetrachloroethane, 1,1,1,2-	630-20-6	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
tetrachloroethane, 1,1,2,2-	79-34-5	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
tetrachloroethylene	127-18-4	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
toluene	108-88-3	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
trichloroethane, 1,1,1-	71-55-6	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
trichloroethane, 1,1,2-	79-00-5	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
trichloroethylene	79-01-6	<0.010	0.010	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
trichlorofluoromethane	75-69-4	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
vinyl chloride	75-01-4	<0.020	0.020	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
xylene, m+p-	179601-23-1	<0.030	0.030	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
xylene, o-	95-47-6	<0.030	0.030	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
xylenes, total	1330-20-7	<0.050	0.05	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
BTEX, total	----	<0.10	0.1	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523819
Volatile Organic Compounds Surrogates								
bromofluorobenzene, 4-	460-00-4	69.0	0.10	%	E611D	15-Jun-2022	15-Jun-2022	523819
difluorobenzene, 1,4-	540-36-3	84.0	0.10	%	E611D	15-Jun-2022	15-Jun-2022	523819
Hydrocarbons								
F1 (C6-C10)	----	<5.0	5.0	mg/kg	E581.F1	15-Jun-2022	15-Jun-2022	523820

Analytical Results

WT2205480-004

Sub-Matrix: **Soil**
(Matrix: **Soil/Solid**)

Client sample ID: S-12581540-220610-JB-BH13-22-0.0-0.6 -
Client sampling date / time: 10-Jun-2022 13:35

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Hydrocarbons								
F2 (C10-C16)	----	<10 DLM,	60	mg/kg	E601.SG-L	13-Jun-2022	21-Jun-2022	521707
F2-naphthalene	----	<25	60	mg/kg	EC600	-	15-Jun-2022	-
F3 (C16-C34)	----	630	180	mg/kg	E601.SG-L	13-Jun-2022	21-Jun-2022	521707
F3-PAH	n/a	630	180	mg/kg	EC600	-	15-Jun-2022	-
F4 (C34-C50)	----	2400	180	mg/kg	E601.SG-L	13-Jun-2022	21-Jun-2022	521707
F4G-sg	----	10200	250	mg/kg	E601.F4G-L	21-Jun-2022	21-Jun-2022	532304
F1-BTEX	----	<5.0	5	mg/kg	EC580	-	16-Jun-2022	-
hydrocarbons, total (C6-C50)	----	3030	262	mg/kg	EC581	-	16-Jun-2022	-
chromatogram to baseline at nC50	n/a	NO	-	-	E601.SG-L	13-Jun-2022	21-Jun-2022	521707
Hydrocarbons Surrogates								
bromobenzotrifluoride, 2- (F2-F4 surr)	392-83-6	62.9	7.5	%	E601.SG-L	13-Jun-2022	21-Jun-2022	521707
dichlorotoluene, 3,4-	97-75-0	77.7	1.0	%	E581.F1	15-Jun-2022	15-Jun-2022	523820
Polycyclic Aromatic Hydrocarbons								
acenaphthene	83-32-9	<0.050	0.050	mg/kg	E642F	14-Jun-2022	15-Jun-2022	522357
acenaphthylene	208-96-8	<0.050	0.050	mg/kg	E642F	14-Jun-2022	15-Jun-2022	522357
anthracene	120-12-7	<0.050	0.050	mg/kg	E642F	14-Jun-2022	15-Jun-2022	522357
benz(a)anthracene	56-55-3	<0.050	0.050	mg/kg	E642F	14-Jun-2022	15-Jun-2022	522357
benzo(a)pyrene	50-32-8	<0.050	0.050	mg/kg	E642F	14-Jun-2022	15-Jun-2022	522357
benzo(b+j)fluoranthene	n/a	<0.050	0.050	mg/kg	E642F	14-Jun-2022	15-Jun-2022	522357
benzo(g,h,i)perylene	191-24-2	<0.050	0.050	mg/kg	E642F	14-Jun-2022	15-Jun-2022	522357
benzo(k)fluoranthene	207-08-9	<0.050	0.050	mg/kg	E642F	14-Jun-2022	15-Jun-2022	522357
chrysene	218-01-9	<0.050	0.050	mg/kg	E642F	14-Jun-2022	15-Jun-2022	522357
dibenz(a,h)anthracene	53-70-3	<0.050	0.050	mg/kg	E642F	14-Jun-2022	15-Jun-2022	522357
fluoranthene	206-44-0	<0.050	0.050	mg/kg	E642F	14-Jun-2022	15-Jun-2022	522357
fluorene	86-73-7	<0.050	0.050	mg/kg	E642F	14-Jun-2022	15-Jun-2022	522357
indeno(1,2,3-c,d)pyrene	193-39-5	<0.050	0.050	mg/kg	E642F	14-Jun-2022	15-Jun-2022	522357
methylnaphthalene, 1-	90-12-0	<0.030	0.030	mg/kg	E642F	14-Jun-2022	15-Jun-2022	522357
methylnaphthalene, 1+2-	----	<0.050	0.05	mg/kg	E642F	14-Jun-2022	15-Jun-2022	522357
methylnaphthalene, 2-	91-57-6	<0.030	0.030	mg/kg	E642F	14-Jun-2022	15-Jun-2022	522357
naphthalene	91-20-3	<0.010	0.010	mg/kg	E642F	14-Jun-2022	15-Jun-2022	522357
phenanthrene	85-01-8	<0.050	0.050	mg/kg	E642F	14-Jun-2022	15-Jun-2022	522357
pyrene	129-00-0	<0.050	0.050	mg/kg	E642F	14-Jun-2022	15-Jun-2022	522357
Polycyclic Aromatic Hydrocarbons Surrogates								
fluorobiphenyl, 2-	321-60-8	79.5	0.1	%	E642F	14-Jun-2022	15-Jun-2022	522357
terphenyl-d14, p-	1718-51-0	75.3	0.1	%	E642F	14-Jun-2022	15-Jun-2022	522357
Polychlorinated Biphenyls								
Aroclor 1016	12674-11-2	<0.010	0.010	mg/kg	E687	14-Jun-2022	15-Jun-2022	522358
Aroclor 1221	11104-28-2	<0.010	0.010	mg/kg	E687	14-Jun-2022	15-Jun-2022	522358
Aroclor 1232	11141-16-5	<0.010	0.010	mg/kg	E687	14-Jun-2022	15-Jun-2022	522358
Aroclor 1242	53469-21-9	<0.010	0.010	mg/kg	E687	14-Jun-2022	15-Jun-2022	522358
Aroclor 1248	12672-29-6	<0.010	0.010	mg/kg	E687	14-Jun-2022	15-Jun-2022	522358
Aroclor 1254	11097-69-1	<0.010	0.010	mg/kg	E687	14-Jun-2022	15-Jun-2022	522358
Aroclor 1260	11096-82-5	<0.010	0.010	mg/kg	E687	14-Jun-2022	15-Jun-2022	522358
Aroclor 1262	37324-23-5	<0.010	0.010	mg/kg	E687	14-Jun-2022	15-Jun-2022	522358
Aroclor 1268	11100-14-4	<0.010	0.010	mg/kg	E687	14-Jun-2022	15-Jun-2022	522358
polychlorinated biphenyls [PCBs], total	----	<0.030	0.030	mg/kg	E687	14-Jun-2022	15-Jun-2022	522358
Polychlorinated Biphenyls Surrogates								
fluorobiphenyl, 2-	321-60-8	81.0	0.1	%	E687	14-Jun-2022	15-Jun-2022	522358

Analytical Results

WT2205480-004

Sub-Matrix:**Soil** *Client sample ID:* S-12581540-220610-JB-BH13-22-0.0-0.6 -

(Matrix: **Soil/Solid**) *Client sampling date / time:* 10-Jun-2022 13:35

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Polychlorinated Biphenyls Surrogates								
terphenyl-d14, p-	1718-51-0	86.7	0.010	%	E687	14-Jun-2022	15-Jun-2022	522358

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

WT2205480-005

Sub-Matrix:**Soil** *Client sample ID:* S-12581540-220610-JB-BH13-22-1.5-1.8

(Matrix: **Soil/Solid**) *Client sampling date / time:* 10-Jun-2022 13:45

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Physical Tests								
moisture	----	14.0	0.25	%	E144	-	13-Jun-2022	522344
Volatile Organic Compounds								
acetone	67-64-1	<0.50	0.50	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523823
benzene	71-43-2	<0.0050	0.0050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523823
bromodichloromethane	75-27-4	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523823
bromoform	75-25-2	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523823
bromomethane	74-83-9	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523823
carbon tetrachloride	56-23-5	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523823
chlorobenzene	108-90-7	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523823
chloroform	67-66-3	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523823
dibromochloromethane	124-48-1	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523823
dibromoethane, 1,2-	106-93-4	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523823
dichlorobenzene, 1,2-	95-50-1	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523823
dichlorobenzene, 1,3-	541-73-1	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523823
dichlorobenzene, 1,4-	106-46-7	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523823
dichlorodifluoromethane	75-71-8	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523823
dichloroethane, 1,1-	75-34-3	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523823
dichloroethane, 1,2-	107-06-2	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523823
dichloroethylene, 1,1-	75-35-4	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523823
dichloroethylene, cis-1,2-	156-59-2	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523823
dichloroethylene, trans-1,2-	156-60-5	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523823
dichloromethane	75-09-2	<0.045	0.045	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523823
dichloropropane, 1,2-	78-87-5	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523823
dichloropropylene, cis+trans-1,3-	542-75-6	<0.050	0.05	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523823
dichloropropylene, cis-1,3-	10061-01-5	<0.030	0.030	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523823
dichloropropylene, trans-1,3-	10061-02-6	<0.030	0.030	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523823
ethylbenzene	100-41-4	<0.015	0.015	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523823
hexane, n-	110-54-3	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523823
methyl ethyl ketone [MEK]	78-93-3	<0.50	0.50	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523823
methyl isobutyl ketone [MIBK]	108-10-1	<0.50	0.50	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523823
methyl-tert-butyl ether [MTBE]	1634-04-4	<0.040	0.040	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523823
styrene	100-42-5	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523823
tetrachloroethane, 1,1,1,2-	630-20-6	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523823
tetrachloroethane, 1,1,2,2-	79-34-5	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523823
tetrachloroethylene	127-18-4	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523823
toluene	108-88-3	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523823

Analytical Results

WT2205480-005

Sub-Matrix:**Soil**
(Matrix: **Soil/Solid)**

Client sample ID: S-12581540-220610-JB-BH13-22-1.5-1.8
Client sampling date / time: 10-Jun-2022 13:45

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
trichloroethane, 1,1,1-	71-55-6	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523823
trichloroethane, 1,1,2-	79-00-5	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523823
trichloroethylene	79-01-6	<0.010	0.010	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523823
trichlorofluoromethane	75-69-4	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523823
vinyl chloride	75-01-4	<0.020	0.020	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523823
xylene, m+p-	179601-23-1	<0.030	0.030	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523823
xylene, o-	95-47-6	<0.030	0.030	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523823
xylenes, total	1330-20-7	<0.050	0.05	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523823
BTEX, total	----	<0.10	0.1	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523823
Volatile Organic Compounds Surrogates								
bromofluorobenzene, 4-	460-00-4	72.5	0.10	%	E611D	15-Jun-2022	15-Jun-2022	523823
difluorobenzene, 1,4-	540-36-3	85.3	0.10	%	E611D	15-Jun-2022	15-Jun-2022	523823
Hydrocarbons								
F1 (C6-C10)	----	<5.0	5.0	mg/kg	E581.F1	15-Jun-2022	15-Jun-2022	523824
F2 (C10-C16)	----	<10	10	mg/kg	E601.SG-L	14-Jun-2022	22-Jun-2022	522359
F3 (C16-C34)	----	63	50	mg/kg	E601.SG-L	14-Jun-2022	22-Jun-2022	522359
F4 (C34-C50)	----	197	50	mg/kg	E601.SG-L	14-Jun-2022	22-Jun-2022	522359
F4G-sg	----	880	250	mg/kg	E601.F4G-L	22-Jun-2022	22-Jun-2022	533956
F1-BTEX	----	<5.0	5	mg/kg	EC580	-	16-Jun-2022	-
hydrocarbons, total (C6-C50)	----	260	80	mg/kg	EC581	-	16-Jun-2022	-
chromatogram to baseline at nC50	n/a	NO	-	-	E601.SG-L	14-Jun-2022	22-Jun-2022	522359
Hydrocarbons Surrogates								
bromobenzotrifluoride, 2- (F2-F4 surr)	392-83-6	87.7	1.0	%	E601.SG-L	14-Jun-2022	22-Jun-2022	522359
dichlorotoluene, 3,4-	97-75-0	85.3	1.0	%	E581.F1	15-Jun-2022	15-Jun-2022	523824

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

WT2205480-006

Sub-Matrix:**Soil**
(Matrix: **Soil/Solid)**

Client sample ID: S-12581540-220610-JB-BH12-22-0.05-0.6
Client sampling date / time: 10-Jun-2022 14:30

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Physical Tests								
conductivity (1:2 leachate)	----	0.265	0.00500	mS/cm	E100-L	15-Jun-2022	17-Jun-2022	521746
moisture	----	6.08	0.25	%	E144	-	13-Jun-2022	522344
pH (1:2 soil:CaCl2-aq)	----	8.47	0.10	pH units	E108A	14-Jun-2022	14-Jun-2022	522371
Cyanides								
cyanide, weak acid dissociable	----	<0.050	0.050	mg/kg	E336A	14-Jun-2022	14-Jun-2022	522364
Saturated Paste Extractables								
calcium, soluble ion content	7440-70-2	12.4	0.50	mg/L	E484	15-Jun-2022	16-Jun-2022	521745
magnesium, soluble ion content	7439-95-4	1.34	0.50	mg/L	E484	15-Jun-2022	16-Jun-2022	521745
sodium, soluble ion content	17341-25-2	39.7	0.50	mg/L	E484	15-Jun-2022	16-Jun-2022	521745
sodium adsorption ratio [SAR]	----	2.86	0.10	-	E484	15-Jun-2022	16-Jun-2022	521745
Metals								
antimony	7440-36-0	0.36	0.10	mg/kg	E440	15-Jun-2022	16-Jun-2022	521744
arsenic	7440-38-2	10.2	0.10	mg/kg	E440	15-Jun-2022	16-Jun-2022	521744

Analytical Results

WT2205480-006

Sub-Matrix:**Soil** *Client sample ID:* S-12581540-220610-JB-BH12-22-0.05-0.6

(Matrix: **Soil/Solid**) *Client sampling date / time:* 10-Jun-2022 14:30

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Metals								
barium	7440-39-3	136	0.50	mg/kg	E440	15-Jun-2022	16-Jun-2022	521744
beryllium	7440-41-7	0.33	0.10	mg/kg	E440	15-Jun-2022	16-Jun-2022	521744
boron	7440-42-8	8.1	5.0	mg/kg	E440	15-Jun-2022	16-Jun-2022	521744
boron, hot water soluble	7440-42-8	0.43	0.10	mg/kg	E487	15-Jun-2022	15-Jun-2022	521747
cadmium	7440-43-9	0.793	0.020	mg/kg	E440	15-Jun-2022	16-Jun-2022	521744
chromium	7440-47-3	15.2	0.50	mg/kg	E440	15-Jun-2022	16-Jun-2022	521744
cobalt	7440-48-4	5.88	0.10	mg/kg	E440	15-Jun-2022	16-Jun-2022	521744
copper	7440-50-8	32.9	0.50	mg/kg	E440	15-Jun-2022	16-Jun-2022	521744
lead	7439-92-1	53.5	0.50	mg/kg	E440	15-Jun-2022	16-Jun-2022	521744
mercury	7439-97-6	0.0187	0.0050	mg/kg	E510	15-Jun-2022	15-Jun-2022	521743
molybdenum	7439-98-7	1.05	0.10	mg/kg	E440	15-Jun-2022	16-Jun-2022	521744
nickel	7440-02-0	14.0	0.50	mg/kg	E440	15-Jun-2022	16-Jun-2022	521744
selenium	7782-49-2	<0.20	0.20	mg/kg	E440	15-Jun-2022	16-Jun-2022	521744
silver	7440-22-4	<0.10	0.10	mg/kg	E440	15-Jun-2022	16-Jun-2022	521744
thallium	7440-28-0	0.086	0.050	mg/kg	E440	15-Jun-2022	16-Jun-2022	521744
uranium	7440-61-1	0.392	0.050	mg/kg	E440	15-Jun-2022	16-Jun-2022	521744
vanadium	7440-62-2	22.6	0.20	mg/kg	E440	15-Jun-2022	16-Jun-2022	521744
zinc	7440-66-6	79.8	2.0	mg/kg	E440	15-Jun-2022	16-Jun-2022	521744
Speciated Metals								
chromium, hexavalent [Cr VI]	18540-29-9	<0.10	0.66	mg/kg	E532	13-Jun-2022	15-Jun-2022	521773

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

WT2205480-007

Sub-Matrix:**Soil** *Client sample ID:* S-12581540-220610-JB-TRIP BLANK

(Matrix: **Soil/Solid**) *Client sampling date / time:* 10-Jun-2022

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Physical Tests								
moisture	----	<0.25	0.25	%	E144	-	14-Jun-2022	522592
Volatile Organic Compounds								
acetone	67-64-1	<0.50	0.50	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523823
benzene	71-43-2	<0.0050	0.0050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523823
bromodichloromethane	75-27-4	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523823
bromoform	75-25-2	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523823
bromomethane	74-83-9	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523823
carbon tetrachloride	56-23-5	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523823
chlorobenzene	108-90-7	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523823
chloroform	67-66-3	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523823
dibromochloromethane	124-48-1	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523823
dibromoethane, 1,2-	106-93-4	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523823
dichlorobenzene, 1,2-	95-50-1	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523823
dichlorobenzene, 1,3-	541-73-1	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523823
dichlorobenzene, 1,4-	106-46-7	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523823
dichlorodifluoromethane	75-71-8	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523823
dichloroethane, 1,1-	75-34-3	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523823

Analytical Results

WT2205480-007

Sub-Matrix: **Soil**
(Matrix: **Soil/Solid**)

Client sample ID: S-12581540-220610-JB-TRIP BLANK
Client sampling date / time: 10-Jun-2022

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
dichloroethane, 1,2-	107-06-2	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523823
dichloroethylene, 1,1-	75-35-4	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523823
dichloroethylene, cis-1,2-	156-59-2	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523823
dichloroethylene, trans-1,2-	156-60-5	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523823
dichloromethane	75-09-2	<0.045	0.045	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523823
dichloropropane, 1,2-	78-87-5	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523823
dichloropropylene, cis+trans-1,3-	542-75-6	<0.050	0.05	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523823
dichloropropylene, cis-1,3-	10061-01-5	<0.030	0.030	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523823
dichloropropylene, trans-1,3-	10061-02-6	<0.030	0.030	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523823
ethylbenzene	100-41-4	<0.015	0.015	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523823
hexane, n-	110-54-3	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523823
methyl ethyl ketone [MEK]	78-93-3	<0.50	0.50	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523823
methyl isobutyl ketone [MIBK]	108-10-1	<0.50	0.50	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523823
methyl-tert-butyl ether [MTBE]	1634-04-4	<0.040	0.040	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523823
styrene	100-42-5	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523823
tetrachloroethane, 1,1,1,2-	630-20-6	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523823
tetrachloroethane, 1,1,2,2-	79-34-5	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523823
tetrachloroethylene	127-18-4	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523823
toluene	108-88-3	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523823
trichloroethane, 1,1,1-	71-55-6	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523823
trichloroethane, 1,1,2-	79-00-5	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523823
trichloroethylene	79-01-6	<0.010	0.010	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523823
trichlorofluoromethane	75-69-4	<0.050	0.050	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523823
vinyl chloride	75-01-4	<0.020	0.020	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523823
xylene, m+p-	179601-23-1	<0.030	0.030	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523823
xylene, o-	95-47-6	<0.030	0.030	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523823
xylenes, total	1330-20-7	<0.050	0.05	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523823
BTEX, total	----	<0.10	0.1	mg/kg	E611D	15-Jun-2022	15-Jun-2022	523823
Volatile Organic Compounds Surrogates								
bromofluorobenzene, 4-	460-00-4	95.2	0.10	%	E611D	15-Jun-2022	15-Jun-2022	523823
difluorobenzene, 1,4-	540-36-3	112	0.10	%	E611D	15-Jun-2022	15-Jun-2022	523823
Hydrocarbons								
F1 (C6-C10)	----	<5.0	5.0	mg/kg	E581.F1	15-Jun-2022	15-Jun-2022	523824
F1-BTEX	----	<5.0	5	mg/kg	EC580	-	16-Jun-2022	-
Hydrocarbons Surrogates								
dichlorotoluene, 3,4-	97-75-0	82.0	1.0	%	E581.F1	15-Jun-2022	15-Jun-2022	523824

Please refer to the General Comments section for an explanation of any qualifiers detected.

QUALITY CONTROL INTERPRETIVE REPORT

Work Order	: **WT2205480**	Page	: 1 of 15
Client	: **GHD Limited**	Laboratory	: Waterloo - Environmental
Contact	: Jennifer Balkwill	Account Manager	: Rick Hawthorne
Address	: 455 Phillip Street Waterloo ON Canada N2L 3X2	Address	: 60 Northland Road, Unit 1 Waterloo, Ontario Canada N2V 2B8
Telephone	: ----	Telephone	: +1 519 886 6910
Project	: 12581540	Date Samples Received	: 13-Jun-2022 10:30
PO	: 735-003274	Issue Date	: 22-Jun-2022 15:51
C-O-C number	: ----		
Sampler	: CLIENT		
Site	: ----		
Quote number	: 12581540 - City of Mississauga		
No. of samples received	: 7		
No. of samples analysed	: 7		

This report is automatically generated by the ALS LIMS (Laboratory Information Management System) through evaluation of Quality Control (QC) results and other QA parameters associated with this submission, and is intended to facilitate rapid data validation by auditors or reviewers. The report highlights any exceptions and outliers to ALS Data Quality Objectives, provides holding time details and exceptions, summarizes QC sample frequencies, and lists applicable methodology references and summaries.

Key

Anonymous: Refers to samples which are not part of this work order, but which formed part of the QC process lot.
CAS Number: Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
DQO: Data Quality Objective.
LOR: Limit of Reporting (detection limit).
RPD: Relative Percent Difference.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Summary of Outliers

Outliers : Quality Control Samples

- No Method Blank value outliers occur.
- No Duplicate outliers occur.
- Laboratory Control Sample (LCS) outliers occur - please see following pages for full details.
- Matrix Spike outliers occur - please see following pages for full details.
- No Test sample Surrogate recovery outliers exist.

Outliers: Reference Material (RM) Samples

- Reference Material (RM) Sample outliers occur - please see the following pages for full details.

Outliers : Analysis Holding Time Compliance (Breaches)

- No Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

- No Quality Control Sample Frequency Outliers occur.

Outliers : Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: **Soil/Solid**

Analyte Group	Laboratory sample ID	Client/Ref Sample ID	Analyte	CAS Number	Method	Result	Limits	Comment
Laboratory Control Sample (LCS) Recoveries								
Metals	QC-MRG2-521743002	----	silver	7440-22-4	E440	65.8 % RRQC	80.0-120%	Recovery less than lower control limit

Result Qualifiers

Qualifier	Description
RRQC	*Refer to report comments for information regarding this QC result.*

Reference Material (RM) Sample								
Speciated Metals	QC-521773-003	----	chromium, hexavalent [Cr VI]	18540-29-9	E532	147 % RM-H	70.0-130%	Recovery greater than upper control limit

Result Qualifiers

Qualifier	Description
RM-H	*Reference Material recovery was above ALS DQO. Non-detected sample results are considered reliable. Other results, if reported, have been qualified.*

Matrix Spike (MS) Recoveries								
Volatile Organic Compounds	Anonymous	Anonymous	acetone	67-64-1	E611D	155 % MES	50.0-140%	Recovery greater than upper data quality objective
Volatile Organic Compounds	Anonymous	Anonymous	dichlorodifluoromethane	75-71-8	E611D	143 % MES	50.0-140%	Recovery greater than upper data quality objective
Hydrocarbons	Anonymous	Anonymous	F4 (C34-C50)	----	E601.SG-L	145 % E	60.0-140%	Recovery greater than upper data quality objective

Result Qualifiers

Qualifier	Description
E	*Matrix Spike recovery outside ALS DQO due to heterogeneous analyte background in sample.*
MES	*Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).*

Analysis Holding Time Compliance

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times, which are selected to meet known provincial and /or federal requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by organizations such as CCME, US EPA, APHA Standard Methods, ASTM, or Environment Canada (where available). Dates and holding times reported below represent the first dates of extraction or analysis. If subsequent tests or dilutions exceeded holding times, qualifiers are added (refer to COA).

If samples are identified below as having been analyzed or extracted outside of recommended holding times, measurement uncertainties may be increased, and this should be taken into consideration when interpreting results.

Where actual sampling date is not provided on the chain of custody, the date of receipt with time at 00:00 is used for calculation purposes.

Where only the sample date without time is provided on the chain of custody, the sampling date at 00:00 is used for calculation purposes.

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Cyanides : WAD Cyanide (0.01M NaOH Extraction)										
Glass soil jar/Teflon lined cap										
S-12581540-220610-JB-BH12-22-0.05-0.6	E336A	10-Jun-2022	14-Jun-2022	14 days	3 days	✓	14-Jun-2022	14 days	1 days	✓
Cyanides : WAD Cyanide (0.01M NaOH Extraction)										
Glass soil jar/Teflon lined cap										
S-12581540-220610-JB-BH13-22-0.0-0.6	E336A	10-Jun-2022	14-Jun-2022	14 days	3 days	✓	14-Jun-2022	14 days	1 days	✓
Cyanides : WAD Cyanide (0.01M NaOH Extraction)										
Glass soil jar/Teflon lined cap										
S-12581540-220610-JB-BH14-22-0.8-1.4	E336A	10-Jun-2022	14-Jun-2022	14 days	4 days	✓	14-Jun-2022	14 days	1 days	✓
Cyanides : WAD Cyanide (0.01M NaOH Extraction)										
Glass soil jar/Teflon lined cap										
S-12581540-220610-JB-MW4-22-0.05-0.6	E336A	10-Jun-2022	14-Jun-2022	14 days	4 days	✓	14-Jun-2022	14 days	1 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial										
S-12581540-220610-JB-BH13-22-0.0-0.6	E581.F1	10-Jun-2022	15-Jun-2022	----	----		15-Jun-2022	40 days	5 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial										
S-12581540-220610-JB-BH13-22-1.5-1.8	E581.F1	10-Jun-2022	15-Jun-2022	----	----		15-Jun-2022	40 days	5 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial										
S-12581540-220610-JB-TRIP BLANK	E581.F1	10-Jun-2022	15-Jun-2022	----	----		15-Jun-2022	40 days	5 days	✓

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial										
S-12581540-220610-JB-MW4-22-0.05-0.6	E581.F1	10-Jun-2022	15-Jun-2022	----	----		15-Jun-2022	40 days	6 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial										
S-12581540-220610-JB-MW4-22-1.5-2.1	E581.F1	10-Jun-2022	15-Jun-2022	----	----		15-Jun-2022	40 days	6 days	✓
Hydrocarbons : CCME PHCs - F4G by Gravimetry (Low Level)										
Glass soil jar/Teflon lined cap										
S-12581540-220610-JB-BH13-22-0.0-0.6	E601.F4G-L	10-Jun-2022	21-Jun-2022	14 days	11 days	✓	21-Jun-2022	40 days	0 days	✓
Hydrocarbons : CCME PHCs - F4G by Gravimetry (Low Level)										
Glass soil jar/Teflon lined cap										
S-12581540-220610-JB-BH13-22-1.5-1.8	E601.F4G-L	10-Jun-2022	22-Jun-2022	14 days	12 days	✓	22-Jun-2022	40 days	0 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID (Low Level)										
Glass soil jar/Teflon lined cap										
S-12581540-220610-JB-BH13-22-1.5-1.8	E601.SG-L	10-Jun-2022	14-Jun-2022	14 days	3 days	✓	20-Jun-2022	40 days	6 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID (Low Level)										
Glass soil jar/Teflon lined cap										
S-12581540-220610-JB-BH13-22-0.0-0.6	E601.SG-L	10-Jun-2022	13-Jun-2022	14 days	3 days	✓	21-Jun-2022	40 days	8 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID (Low Level)										
Glass soil jar/Teflon lined cap										
S-12581540-220610-JB-MW4-22-0.05-0.6	E601.SG-L	10-Jun-2022	13-Jun-2022	14 days	3 days	✓	21-Jun-2022	40 days	8 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID (Low Level)										
Glass soil jar/Teflon lined cap										
S-12581540-220610-JB-MW4-22-1.5-2.1	E601.SG-L	10-Jun-2022	13-Jun-2022	14 days	3 days	✓	21-Jun-2022	40 days	8 days	✓
Metals : Boron-Hot Water Extractable by ICPOES										
Glass soil jar/Teflon lined cap										
S-12581540-220610-JB-BH12-22-0.05-0.6	E487	10-Jun-2022	15-Jun-2022	180 days	5 days	✓	15-Jun-2022	180 days	0 days	✓

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Metals : Boron-Hot Water Extractable by ICPOES										
Glass soil jar/Teflon lined cap										
S-12581540-220610-JB-BH13-22-0.0-0.6	E487	10-Jun-2022	15-Jun-2022	180 days	5 days	✓	15-Jun-2022	180 days	0 days	✓
Metals : Boron-Hot Water Extractable by ICPOES										
Glass soil jar/Teflon lined cap										
S-12581540-220610-JB-BH14-22-0.8-1.4	E487	10-Jun-2022	15-Jun-2022	180 days	5 days	✓	15-Jun-2022	180 days	0 days	✓
Metals : Boron-Hot Water Extractable by ICPOES										
Glass soil jar/Teflon lined cap										
S-12581540-220610-JB-MW4-22-0.05-0.6	E487	10-Jun-2022	15-Jun-2022	180 days	5 days	✓	15-Jun-2022	180 days	0 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
Glass soil jar/Teflon lined cap										
S-12581540-220610-JB-BH12-22-0.05-0.6	E510	10-Jun-2022	15-Jun-2022	----	----		15-Jun-2022	28 days	5 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
Glass soil jar/Teflon lined cap										
S-12581540-220610-JB-BH13-22-0.0-0.6	E510	10-Jun-2022	15-Jun-2022	----	----		15-Jun-2022	28 days	5 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
Glass soil jar/Teflon lined cap										
S-12581540-220610-JB-BH14-22-0.8-1.4	E510	10-Jun-2022	15-Jun-2022	----	----		15-Jun-2022	28 days	5 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
Glass soil jar/Teflon lined cap										
S-12581540-220610-JB-MW4-22-0.05-0.6	E510	10-Jun-2022	15-Jun-2022	----	----		15-Jun-2022	28 days	5 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
S-12581540-220610-JB-BH12-22-0.05-0.6	E440	10-Jun-2022	15-Jun-2022	----	----		16-Jun-2022	180 days	6 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
S-12581540-220610-JB-BH13-22-0.0-0.6	E440	10-Jun-2022	15-Jun-2022	----	----		16-Jun-2022	180 days	6 days	✓

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
S-12581540-220610-JB-BH14-22-0.8-1.4	E440	10-Jun-2022	15-Jun-2022	----	----		16-Jun-2022	180 days	6 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
S-12581540-220610-JB-MW4-22-0.05-0.6	E440	10-Jun-2022	15-Jun-2022	----	----		16-Jun-2022	180 days	6 days	✓
Physical Tests : Conductivity in Soil (1:2 Soil:Water Extraction) (Low Level)										
Glass soil jar/Teflon lined cap										
S-12581540-220610-JB-BH12-22-0.05-0.6	E100-L	10-Jun-2022	15-Jun-2022	----	----		17-Jun-2022	30 days	7 days	✓
Physical Tests : Conductivity in Soil (1:2 Soil:Water Extraction) (Low Level)										
Glass soil jar/Teflon lined cap										
S-12581540-220610-JB-BH13-22-0.0-0.6	E100-L	10-Jun-2022	15-Jun-2022	----	----		17-Jun-2022	30 days	7 days	✓
Physical Tests : Conductivity in Soil (1:2 Soil:Water Extraction) (Low Level)										
Glass soil jar/Teflon lined cap										
S-12581540-220610-JB-BH14-22-0.8-1.4	E100-L	10-Jun-2022	15-Jun-2022	----	----		17-Jun-2022	30 days	8 days	✓
Physical Tests : Conductivity in Soil (1:2 Soil:Water Extraction) (Low Level)										
Glass soil jar/Teflon lined cap										
S-12581540-220610-JB-MW4-22-0.05-0.6	E100-L	10-Jun-2022	15-Jun-2022	----	----		17-Jun-2022	30 days	8 days	✓
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
S-12581540-220610-JB-BH12-22-0.05-0.6	E144	10-Jun-2022	----	----	----		13-Jun-2022	----	----	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
S-12581540-220610-JB-BH13-22-0.0-0.6	E144	10-Jun-2022	----	----	----		13-Jun-2022	----	----	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
S-12581540-220610-JB-BH13-22-1.5-1.8	E144	10-Jun-2022	----	----	----		13-Jun-2022	----	----	

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
S-12581540-220610-JB-BH14-22-0.8-1.4	E144	10-Jun-2022	----	----	----		13-Jun-2022	----	----	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
S-12581540-220610-JB-MW4-22-0.05-0.6	E144	10-Jun-2022	----	----	----		13-Jun-2022	----	----	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
S-12581540-220610-JB-MW4-22-1.5-2.1	E144	10-Jun-2022	----	----	----		14-Jun-2022	----	----	
Physical Tests : Moisture Content by Gravimetry										
Glass soil methanol vial										
S-12581540-220610-JB-TRIP BLANK	E144	10-Jun-2022	----	----	----		14-Jun-2022	----	----	
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received										
Glass soil jar/Teflon lined cap										
S-12581540-220610-JB-BH12-22-0.05-0.6	E108A	10-Jun-2022	14-Jun-2022	----	----		14-Jun-2022	30 days	4 days	✓
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received										
Glass soil jar/Teflon lined cap										
S-12581540-220610-JB-BH13-22-0.0-0.6	E108A	10-Jun-2022	14-Jun-2022	----	----		14-Jun-2022	30 days	4 days	✓
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received										
Glass soil jar/Teflon lined cap										
S-12581540-220610-JB-BH14-22-0.8-1.4	E108A	10-Jun-2022	14-Jun-2022	----	----		14-Jun-2022	30 days	4 days	✓
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received										
Glass soil jar/Teflon lined cap										
S-12581540-220610-JB-MW4-22-0.05-0.6	E108A	10-Jun-2022	14-Jun-2022	----	----		14-Jun-2022	30 days	4 days	✓
Polychlorinated Biphenyls : PCB Aroclors by GC-MS										
Glass soil jar/Teflon lined cap										
S-12581540-220610-JB-BH13-22-0.0-0.6	E687	10-Jun-2022	14-Jun-2022	----	----		15-Jun-2022	40 days	1 days	✓

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Polychlorinated Biphenyls : PCB Aroclors by GC-MS										
Glass soil jar/Teflon lined cap										
S-12581540-220610-JB-MW4-22-0.05-0.6	E687	10-Jun-2022	14-Jun-2022	----	----		15-Jun-2022	40 days	1 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by MeOH:Tol GC-MS										
Glass soil jar/Teflon lined cap										
S-12581540-220610-JB-BH13-22-0.0-0.6	E642F	10-Jun-2022	14-Jun-2022	14 days	3 days	✓	15-Jun-2022	40 days	1 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by MeOH:Tol GC-MS										
Glass soil jar/Teflon lined cap										
S-12581540-220610-JB-MW4-22-0.05-0.6	E642F	10-Jun-2022	14-Jun-2022	14 days	4 days	✓	15-Jun-2022	40 days	1 days	✓
Saturated Paste Extractables : Sodium Adsorption Ratio (SAR) - 1:2 Soil:Water (Dry)										
Glass soil jar/Teflon lined cap										
S-12581540-220610-JB-BH12-22-0.05-0.6	E484	10-Jun-2022	15-Jun-2022	180 days	5 days	✓	16-Jun-2022	180 days	1 days	✓
Saturated Paste Extractables : Sodium Adsorption Ratio (SAR) - 1:2 Soil:Water (Dry)										
Glass soil jar/Teflon lined cap										
S-12581540-220610-JB-BH13-22-0.0-0.6	E484	10-Jun-2022	15-Jun-2022	180 days	5 days	✓	16-Jun-2022	180 days	1 days	✓
Saturated Paste Extractables : Sodium Adsorption Ratio (SAR) - 1:2 Soil:Water (Dry)										
Glass soil jar/Teflon lined cap										
S-12581540-220610-JB-BH14-22-0.8-1.4	E484	10-Jun-2022	15-Jun-2022	180 days	6 days	✓	16-Jun-2022	180 days	1 days	✓
Saturated Paste Extractables : Sodium Adsorption Ratio (SAR) - 1:2 Soil:Water (Dry)										
Glass soil jar/Teflon lined cap										
S-12581540-220610-JB-MW4-22-0.05-0.6	E484	10-Jun-2022	15-Jun-2022	180 days	6 days	✓	16-Jun-2022	180 days	1 days	✓
Speciated Metals : Hexavalent Chromium (Cr VI) by IC										
Glass soil jar/Teflon lined cap										
S-12581540-220610-JB-BH12-22-0.05-0.6	E532	10-Jun-2022	13-Jun-2022	30 days	3 days	✓	15-Jun-2022	7 days	2 days	✓
Speciated Metals : Hexavalent Chromium (Cr VI) by IC										
Glass soil jar/Teflon lined cap										
S-12581540-220610-JB-BH13-22-0.0-0.6	E532	10-Jun-2022	13-Jun-2022	30 days	3 days	✓	15-Jun-2022	7 days	2 days	✓

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Speciated Metals : Hexavalent Chromium (Cr VI) by IC										
Glass soil jar/Teflon lined cap										
S-12581540-220610-JB-BH14-22-0.8-1.4	E532	10-Jun-2022	13-Jun-2022	30 days	3 days	✓	15-Jun-2022	7 days	2 days	✓
Speciated Metals : Hexavalent Chromium (Cr VI) by IC										
Glass soil jar/Teflon lined cap										
S-12581540-220610-JB-MW4-22-0.05-0.6	E532	10-Jun-2022	13-Jun-2022	30 days	3 days	✓	15-Jun-2022	7 days	2 days	✓
Volatile Organic Compounds : VOCs (ON List) by Headspace GC-MS										
Glass soil methanol vial										
S-12581540-220610-JB-BH13-22-0.0-0.6	E611D	10-Jun-2022	15-Jun-2022	----	----		15-Jun-2022	40 days	5 days	✓
Volatile Organic Compounds : VOCs (ON List) by Headspace GC-MS										
Glass soil methanol vial										
S-12581540-220610-JB-BH13-22-1.5-1.8	E611D	10-Jun-2022	15-Jun-2022	----	----		15-Jun-2022	40 days	5 days	✓
Volatile Organic Compounds : VOCs (ON List) by Headspace GC-MS										
Glass soil methanol vial										
S-12581540-220610-JB-TRIP BLANK	E611D	10-Jun-2022	15-Jun-2022	----	----		15-Jun-2022	40 days	5 days	✓
Volatile Organic Compounds : VOCs (ON List) by Headspace GC-MS										
Glass soil methanol vial										
S-12581540-220610-JB-MW4-22-0.05-0.6	E611D	10-Jun-2022	15-Jun-2022	----	----		15-Jun-2022	40 days	6 days	✓
Volatile Organic Compounds : VOCs (ON List) by Headspace GC-MS										
Glass soil methanol vial										
S-12581540-220610-JB-MW4-22-1.5-2.1	E611D	10-Jun-2022	15-Jun-2022	----	----		15-Jun-2022	40 days	6 days	✓

Legend & Qualifier Definitions

Rec. HT: ALS recommended hold time (see units).

Quality Control Parameter Frequency Compliance

The following report summarizes the frequency of laboratory QC samples analyzed within the analytical batches (QC lots) in which the submitted samples were processed. The actual frequency should be greater than or equal to the expected frequency.

Matrix: **Soil/Solid**

Evaluation: × = QC frequency outside specification; ✓ = QC frequency within specification.

Quality Control Sample Type			Count		Frequency (%)		
Analytical Methods	*Method*	*QC Lot #*	*QC*	*Regular*	*Actual*	*Expected*	*Evaluation*
Laboratory Duplicates (DUP)							
Boron-Hot Water Extractable by ICPOES	E487	521747	1	20	5.0	5.0	✓
CCME PHC - F1 by Headspace GC-FID	E581.F1	523820	2	38	5.2	5.0	✓
CCME PHCs - F4G by Gravimetry (Low Level)	E601.F4G-L	532304	1	7	14.2	5.0	✓
CCME PHCs - F2-F4 by GC-FID (Low Level)	E601.SG-L	521707	2	27	7.4	5.0	✓
Conductivity in Soil (1:2 Soil:Water Extraction) (Low Level)	E100-L	521746	1	20	5.0	5.0	✓
Hexavalent Chromium (Cr VI) by IC	E532	521773	1	20	5.0	5.0	✓
Mercury in Soil/Solid by CVAAS	E510	521743	1	20	5.0	5.0	✓
Metals in Soil/Solid by CRC ICPMS	E440	521744	1	20	5.0	5.0	✓
Moisture Content by Gravimetry	E144	522344	2	32	6.2	5.0	✓
PAHs by MeOH:Tol GC-MS	E642F	522357	1	10	10.0	5.0	✓
PCB Aroclors by GC-MS	E687	522358	1	10	10.0	5.0	✓
pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received	E108A	522371	1	20	5.0	5.0	✓
Sodium Adsorption Ratio (SAR) - 1:2 Soil:Water (Dry)	E484	521745	1	20	5.0	5.0	✓
VOCs (ON List) by Headspace GC-MS	E611D	523819	2	40	5.0	5.0	✓
WAD Cyanide (0.01M NaOH Extraction)	E336A	522364	1	20	5.0	5.0	✓
Laboratory Control Samples (LCS)							
Boron-Hot Water Extractable by ICPOES	E487	521747	2	20	10.0	10.0	✓
CCME PHC - F1 by Headspace GC-FID	E581.F1	523820	2	38	5.2	5.0	✓
CCME PHCs - F4G by Gravimetry (Low Level)	E601.F4G-L	532304	2	7	28.5	5.0	✓
CCME PHCs - F2-F4 by GC-FID (Low Level)	E601.SG-L	521707	2	27	7.4	5.0	✓
Conductivity in Soil (1:2 Soil:Water Extraction) (Low Level)	E100-L	521746	2	20	10.0	10.0	✓
Hexavalent Chromium (Cr VI) by IC	E532	521773	2	20	10.0	10.0	✓
Mercury in Soil/Solid by CVAAS	E510	521743	2	20	10.0	10.0	✓
Metals in Soil/Solid by CRC ICPMS	E440	521744	2	20	10.0	10.0	✓
Moisture Content by Gravimetry	E144	522344	2	32	6.2	5.0	✓
PAHs by MeOH:Tol GC-MS	E642F	522357	1	10	10.0	5.0	✓
PCB Aroclors by GC-MS	E687	522358	1	10	10.0	5.0	✓
pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received	E108A	522371	1	20	5.0	5.0	✓
Sodium Adsorption Ratio (SAR) - 1:2 Soil:Water (Dry)	E484	521745	2	20	10.0	10.0	✓
VOCs (ON List) by Headspace GC-MS	E611D	523819	2	40	5.0	5.0	✓
WAD Cyanide (0.01M NaOH Extraction)	E336A	522364	1	20	5.0	5.0	✓
Method Blanks (MB)							
Boron-Hot Water Extractable by ICPOES	E487	521747	1	20	5.0	5.0	✓
CCME PHC - F1 by Headspace GC-FID	E581.F1	523820	2	38	5.2	5.0	✓
CCME PHCs - F4G by Gravimetry (Low Level)	E601.F4G-L	532304	2	7	28.5	5.0	✓
CCME PHCs - F2-F4 by GC-FID (Low Level)	E601.SG-L	521707	2	27	7.4	5.0	✓
Conductivity in Soil (1:2 Soil:Water Extraction) (Low Level)	E100-L	521746	1	20	5.0	5.0	✓

Matrix: **Soil/Solid**

Evaluation: × = *QC frequency outside specification*; ✓ = *QC frequency within specification.*

Quality Control Sample Type			Count		Frequency (%)		
Analytical Methods	*Method*	*QC Lot #*	*QC*	*Regular*	*Actual*	*Expected*	*Evaluation*
Method Blanks (MB) - Continued							
Hexavalent Chromium (Cr VI) by IC	E532	521773	1	20	5.0	5.0	✓
Mercury in Soil/Solid by CVAAS	E510	521743	1	20	5.0	5.0	✓
Metals in Soil/Solid by CRC ICPMS	E440	521744	1	20	5.0	5.0	✓
Moisture Content by Gravimetry	E144	522344	2	32	6.2	5.0	✓
PAHs by MeOH:Tol GC-MS	E642F	522357	1	10	10.0	5.0	✓
PCB Aroclors by GC-MS	E687	522358	1	10	10.0	5.0	✓
Sodium Adsorption Ratio (SAR) - 1:2 Soil:Water (Dry)	E484	521745	1	20	5.0	5.0	✓
VOCs (ON List) by Headspace GC-MS	E611D	523819	2	40	5.0	5.0	✓
WAD Cyanide (0.01M NaOH Extraction)	E336A	522364	1	20	5.0	5.0	✓
Matrix Spikes (MS)							
CCME PHC - F1 by Headspace GC-FID	E581.F1	523820	2	38	5.2	5.0	✓
CCME PHCs - F4G by Gravimetry (Low Level)	E601.F4G-L	532304	1	7	14.2	5.0	✓
CCME PHCs - F2-F4 by GC-FID (Low Level)	E601.SG-L	521707	2	27	7.4	5.0	✓
PAHs by MeOH:Tol GC-MS	E642F	522357	1	10	10.0	5.0	✓
PCB Aroclors by GC-MS	E687	522358	1	10	10.0	5.0	✓
VOCs (ON List) by Headspace GC-MS	E611D	523819	2	40	5.0	5.0	✓
WAD Cyanide (0.01M NaOH Extraction)	E336A	522364	1	20	5.0	5.0	✓

Methodology References and Summaries

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Reference methods may incorporate modifications to improve performance (indicated by "mod").

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Conductivity in Soil (1:2 Soil:Water Extraction) (Low Level)	E100-L Waterloo - Environmental	Soil/Solid	CSSS Ch. 15 (mod)/APHA 2510 (mod)	Conductivity, also known as Electrical Conductivity (EC) or Specific Conductance, is measured by immersion of a conductivity cell with platinum electrodes into a soil sample that has been added in a defined ratio of soil to deionized water, then shaken well and allowed to settle. Conductance is measured in the fluid that is observed in the upper layer.
pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received	E108A Waterloo - Environmental	Soil/Solid	MOEE E3137A	pH is determined by potentiometric measurement with a pH electrode, and is conducted at ambient laboratory temperature (normally 20 ± 5°C) and is carried out in accordance with procedures described in the Analytical Protocol (prescriptive method). A minimum 10g portion of the sample, as received, is extracted with 20mL of 0.01M calcium chloride solution by shaking for at least 30 minutes. The aqueous layer is separated from the soil by centrifuging, settling, or decanting and then analyzed using a pH meter and electrode.
Moisture Content by Gravimetry	E144 Waterloo - Environmental	Soil/Solid	CCME PHC in Soil - Tier 1	Moisture is measured gravimetrically by drying the sample at 105°C. Moisture content is calculated as the weight loss (due to water) divided by the wet weight of the sample, expressed as a percentage.
WAD Cyanide (0.01M NaOH Extraction)	E336A Waterloo - Environmental	Soil/Solid	APHA 4500-CN I (mod)	Weak Acid Dissociable (WAD) cyanide is determined after extraction by Continuous Flow Analyzer (CFA) with in-line distillation followed by colourmetric analysis.
Metals in Soil/Solid by CRC ICPMS	E440 Waterloo - Environmental	Soil/Solid	EPA 6020B (mod)	This method is intended to liberate metals that may be environmentally available. Samples are dried, then sieved through a 2 mm sieve, and digested with HNO3 and HCl. Dependent on sample matrix, some metals may be only partially recovered, including Al, Ba, Be, Cr, Sr, Ti, Tl, V, W, and Zr. Silicate minerals are not solubilized. Volatile forms of sulfur (including sulfide) may not be captured, as they may be lost during sampling, storage, or digestion. This method does not adequately recover elemental sulfur, and is unsuitable for assessment of elemental sulfur standards or guidelines. Analysis is by Collision/Reaction Cell ICPMS.
Sodium Adsorption Ratio (SAR) - 1:2 Soil:Water (Dry)	E484 Waterloo - Environmental	Soil/Solid	SW846 6010C	A dried, disaggregated solid sample is extracted with deionized water, the aqueous extract is separated from the solid, acidified and then analyzed using a ICP/OES. The concentrations of Na, Ca and Mg are reported as per CALA requirements for calculated parameters. These individual parameters are not for comparison to any guideline.
Boron-Hot Water Extractable by ICPOES	E487 Waterloo - Environmental	Soil/Solid	HW EXTR, EPA 6010B	A dried solid sample is extracted with calcium chloride, the sample undergoes a heating process. After cooling the sample is filtered and analyzed by ICP/OES. Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Mercury in Soil/Solid by CVAAS	E510 Waterloo - Environmental	Soil/Solid	EPA 200.2/1631 Appendix (mod)	Samples are dried, then sieved through a 2 mm sieve, and digested with HNO_3 and HCl, followed by CVAAS analysis.
Hexavalent Chromium (Cr VI) by IC	E532 Waterloo - Environmental	Soil/Solid	APHA 3500-CR C	Instrumental analysis is performed by ion chromatography with UV detection.
CCME PHC - F1 by Headspace GC-FID	E581.F1 Waterloo - Environmental	Soil/Solid	CCME PHC in Soil - Tier 1	CCME Fraction 1 (F1) is analyzed by static headspace GC-FID. Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler, causing VOCs to partition between the aqueous phase and the headspace in accordance with Henry's law.
CCME PHCs - F4G by Gravimetry (Low Level)	E601.F4G-L Waterloo - Environmental	Soil/Solid	CCME PHC in Soil - Tier 1	A portion of the silica gel treated sample extract is filtered and dried at 105°C and the mass of the residual gravimetric heavy hydrocarbons (F4G) is determined gravimetrically.
CCME PHCs - F2-F4 by GC-FID (Low Level)	E601.SG-L Waterloo - Environmental	Soil/Solid	CCME PHC in Soil - Tier 1	Sample extracts are subjected to in-situ silica gel treatment prior to analysis by GC-FID for CCME hydrocarbon fractions (F2-F4).
VOCs (ON List) by Headspace GC-MS	E611D Waterloo - Environmental	Soil/Solid	EPA 8260D (mod)	Volatile Organic Compounds (VOCs) are analyzed by static headspace GC-MS. Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler, causing VOCs to partition between the aqueous phase and the headspace in accordance with Henry's law.
PAHs by MeOH:Tol GC-MS	E642F Waterloo - Environmental	Soil/Solid	EPA 8270E (mod)	Polycyclic Aromatic Hydrocarbons (PAHs) are extracted with methanol/toluene and analyzed by GC-MS. If reported, IACR (index of additive cancer risk, unitless) and B(a)P toxic potency equivalent (in soil concentration units) are calculated as per CCME PAH Soil Quality Guidelines fact sheet (2010) or ABT1.
PCB Aroclors by GC-MS	E687 Waterloo - Environmental	Soil/Solid	EPA 8270E (mod)	PCB Aroclors are analyzed by GC-MS
F1-BTEX	EC580 Waterloo - Environmental	Soil/Solid	CCME PHC in Soil - Tier 1	F1-BTEX is calculated as follows: F1-BTEX = F1 (C6-C10) minus benzene, toluene, ethylbenzene and xylenes (BTEX).
Sum F1 to F4 (C6-C50)	EC581 Waterloo - Environmental	Soil/Solid	CCME PHC in Soil - Tier 1	Hydrocarbons, total (C6-C50) is the sum of CCME Fractions F1(C6-C10), F2(C10-C16), F3(C16-C34), and F4(C34-C50). F4G-sg is not used within this calculation due to overlap with other fractions.
F2 to F3 minus PAH	EC600 Waterloo - Environmental	Soil/Solid	CCME PHC in Soil - Tier 1	F2-PAH = CCME Fraction 2 (C10-C16) minus Naphthalene F3-PAH = CCME Fraction 3 (C16-C34) minus select Polycyclic Aromatic Hydrocarbons (PAH) as per CCME Soil Tier 1

Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions

Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Leach 1:2 Soil:Water for pH/EC	EP108 Waterloo - Environmental	Soil/Solid	BC WLAP METHOD: PH, ELECTROMETRIC, SOIL	The procedure involves mixing the dried (at <60°C) and sieved (No. 10 / 2mm) sample with deionized/distilled water at a 1:2 ratio of sediment to water.
Leach 1:2 Soil : 0.01CaCl2 - As Received for pH	EP108A Waterloo - Environmental	Soil/Solid	MOEE E3137A	A minimum 10g portion of the sample, as received, is extracted with 20mL of 0.01M calcium chloride solution by shaking for at least 30 minutes. The aqueous layer is separated from the soil by centrifuging, settling or decanting and then analyzed using a pH meter and electrode.
Cyanide Extraction for CFA (0.01M NaOH)	EP333A Waterloo - Environmental	Soil/Solid	ON MECP E3015 (mod)	Extraction for various cyanide analysis is by rotary extraction of the soil with 0.01M Sodium Hydroxide.
Digestion for Metals and Mercury	EP440 Waterloo - Environmental	Soil/Solid	EPA 200.2 (mod)	Samples are dried, then sieved through a 2 mm sieve, and digested with HNO3 and HCl. This method is intended to liberate metals that may be environmentally available.
Boron-Hot Water Extractable	EP487 Waterloo - Environmental	Soil/Solid	HW EXTR, EPA 6010B	A dried solid sample is extracted with weak calcium chloride, the sample undergoes a heating process. After cooling the sample is filtered and analyzed by ICP/OES. Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011)
Preparation of Hexavalent Chromium (Cr VI) for IC	EP532 Waterloo - Environmental	Soil/Solid	EPA 3060A	Field moist samples are digested with a sodium hydroxide/sodium carbonate solution as described in EPA 3060A.
VOCs Methanol Extraction for Headspace Analysis	EP581 Waterloo - Environmental	Soil/Solid	EPA 5035A (mod)	VOCs in samples are extracted with methanol. Extracts are then prepared in headspace vials and are heated and agitated on the headspace autosampler, causing VOCs to partition between the aqueous phase and the headspace in accordance with Henry's law.
PHCs and PAHs Hexane-Acetone Tumbler Extraction	EP601 Waterloo - Environmental	Soil/Solid	CCME PHC in Soil - Tier 1 (mod)	Samples are subsampled and Petroleum Hydrocarbons (PHC) and PAHs are extracted with 1:1 hexane:acetone using a rotary extractor.
Pesticides, PCB, PAH, and Neutral Extractable Chlorinated Hydrocarbons Extraction (High Level)	EP660-H Waterloo - Environmental	Soil/Solid	EPA 3570 (mod)	A homogenized subsample is extracted with organic solvents using a mechanical shaker.

QUALITY CONTROL REPORT

Work Order	: **WT2205480**	Page	: 1 of 23
Client	: GHD Limited	Laboratory	: Waterloo - Environmental
Contact	: Jennifer Balkwill	Account Manager	: Rick Hawthorne
Address	: 455 Phillip Street Waterloo ON Canada N2L 3X2	Address	: 60 Northland Road, Unit 1 Waterloo, Ontario Canada N2V 2B8
Telephone	: ----	Telephone	: +1 519 886 6910
Project	: 12581540	Date Samples Received	: 13-Jun-2022 10:30
PO	: 735-003274	Date Analysis Commenced	: 13-Jun-2022
C-O-C number	: ----	Issue Date	: 22-Jun-2022 15:50
Sampler	: CLIENT		
Site	: ----		
Quote number	: 12581540 - City of Mississauga		
No. of samples received	: 7		
No. of samples analysed	: 7		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percent Difference (RPD) and Data Quality Objectives
- Matrix Spike (MS) Report; Recovery and Data Quality Objectives
- Reference Material (RM) Report; Recovery and Data Quality Objectives
- Method Blank (MB) Report; Recovery and Data Quality Objectives
- Laboratory Control Sample (LCS) Report; Recovery and Data Quality Objectives

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

Signatories	*Position*	*Laboratory Department*
Amanda Ganouri-Lumsden	Department Manager - Microbiology and Prep	Waterloo Centralized Prep, Waterloo, Ontario
Jeremy Gingras	Team Leader - Semi-Volatile Instrumentation	Waterloo Organics, Waterloo, Ontario
Jocelyn Kennedy	Department Manager - Semi-Volatile Organics	Waterloo Organics, Waterloo, Ontario
Jon Fisher	Department Manager - Inorganics	Waterloo Inorganics, Waterloo, Ontario
Jon Fisher	Department Manager - Inorganics	Waterloo Metals, Waterloo, Ontario
Sarah Birch	Team Leader - Volatiles	Waterloo Organics, Waterloo, Ontario

General Comments

The ALS Quality Control (QC) report is optionally provided to ALS clients upon request. ALS test methods include comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined Data Quality Objectives (DQOs) to provide confidence in the accuracy of associated test results. This report contains detailed results for all QC results applicable to this sample submission. Please refer to the ALS Quality Control Interpretation report (QCI) for applicable method references and methodology summaries.

Key :

Anonymous = Refers to samples which are not part of this work order, but which formed part of the QC process lot.
CAS Number = Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
DQO = Data Quality Objective.
LOR = Limit of Reporting (detection limit).
RPD = Relative Percent Difference
# = Indicates a QC result that did not meet the ALS DQO.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Laboratory Duplicate (DUP) Report

A Laboratory Duplicate (DUP) is a randomly selected intralaboratory replicate sample. Laboratory Duplicates provide information regarding method precision and sample heterogeneity. ALS DQOs for Laboratory Duplicates are expressed as test-specific limits for Relative Percent Difference (RPD), or as an absolute difference limit of 2 times the LOR for low concentration duplicates within ~ 4-10 times the LOR (cut-off is test-specific).

Sub-Matrix: **Soil/Solid**

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	*Client sample ID*	*Analyte*	*CAS Number*	*Method*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD(%) or Difference*	*Duplicate Limits*	*Qualifier*
Physical Tests (QC Lot: 521746)											
WT2205475-006	Anonymous	conductivity (1:2 leachate)	----	E100-L	5.00	µS/cm	1.54 mS/cm	1550	0.0647%	20%	----
Physical Tests (QC Lot: 522344)											
WT2205329-004	Anonymous	moisture	----	E144	0.25	%	9.26	9.29	0.350%	20%	----
Physical Tests (QC Lot: 522371)											
WT2205475-001	Anonymous	pH (1:2 soil:CaCl2-aq)	----	E108A	0.10	pH units	7.96	8.00	0.04	Diff <2x LOR	----
Physical Tests (QC Lot: 522592)											
WT2205489-005	Anonymous	moisture	----	E144	0.25	%	17.5	18.0	3.10%	20%	----
Cyanides (QC Lot: 522364)											
WT2205475-001	Anonymous	cyanide, weak acid dissociable	----	E336A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
Metals (QC Lot: 521743)											
WT2205475-006	Anonymous	mercury	7439-97-6	E510	0.0050	mg/kg	0.0178	0.0185	0.0007	Diff <2x LOR	----
Metals (QC Lot: 521744)											
WT2205475-006	Anonymous	antimony	7440-36-0	E440	0.10	mg/kg	<0.10	<0.10	0	Diff <2x LOR	----
		arsenic	7440-38-2	E440	0.10	mg/kg	1.21	1.31	7.67%	30%	----
		barium	7440-39-3	E440	0.50	mg/kg	24.4	25.6	4.76%	40%	----
		beryllium	7440-41-7	E440	0.10	mg/kg	0.20	0.24	0.04	Diff <2x LOR	----
		boron	7440-42-8	E440	5.0	mg/kg	<5.0	<5.0	0	Diff <2x LOR	----
		cadmium	7440-43-9	E440	0.020	mg/kg	0.063	0.065	0.003	Diff <2x LOR	----
		chromium	7440-47-3	E440	0.50	mg/kg	7.84	8.11	3.35%	30%	----
		cobalt	7440-48-4	E440	0.10	mg/kg	2.50	2.56	2.44%	30%	----
		copper	7440-50-8	E440	0.50	mg/kg	3.64	3.76	3.08%	30%	----
		lead	7439-92-1	E440	0.50	mg/kg	3.84	4.16	8.14%	40%	----
		molybdenum	7439-98-7	E440	0.10	mg/kg	0.23	0.23	0.0008	Diff <2x LOR	----
		nickel	7440-02-0	E440	0.50	mg/kg	4.33	4.60	5.96%	30%	----
		selenium	7782-49-2	E440	0.20	mg/kg	<0.20	<0.20	0	Diff <2x LOR	----
		silver	7440-22-4	E440	0.10	mg/kg	<0.10	<0.10	0	Diff <2x LOR	----
		thallium	7440-28-0	E440	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		uranium	7440-61-1	E440	0.050	mg/kg	0.224	0.242	0.018	Diff <2x LOR	----
		vanadium	7440-62-2	E440	0.20	mg/kg	15.4	16.1	4.40%	30%	----
		zinc	7440-66-6	E440	2.0	mg/kg	16.7	17.2	2.69%	30%	----
Metals (QC Lot: 521745)											

Sub-Matrix: **Soil/Solid**

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	*Client sample ID*	*Analyte*	*CAS Number*	*Method*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD(%) or Difference*	*Duplicate Limits*	*Qualifier*
Metals (QC Lot: 521745) - continued											
WT2205475-006	Anonymous	calcium, soluble ion content	7440-70-2	E484	0.50	mg/L	10.6	12.0	12.4%	30%	----
		magnesium, soluble ion content	7439-95-4	E484	0.50	mg/L	0.98	1.02	0.04	Diff <2x LOR	----
		sodium, soluble ion content	17341-25-2	E484	0.50	mg/L	318	321	0.939%	30%	----
Metals (QC Lot: 521747)											
WT2205475-006	Anonymous	boron, hot water soluble	7440-42-8	E487	0.10	mg/kg	0.16	0.16	0.0010	Diff <2x LOR	----
Speciated Metals (QC Lot: 521773)											
WT2205475-001	Anonymous	chromium, hexavalent [Cr VI]	18540-29-9	E532	0.60	mg/kg	<0.60	<0.60	0	Diff <2x LOR	----
Volatile Organic Compounds (QC Lot: 523819)											
WT2205445-001	Anonymous	acetone	67-64-1	E611D	0.50	mg/kg	<0.50	<0.50	0	Diff <2x LOR	----
		benzene	71-43-2	E611D	0.0050	mg/kg	<0.0050	<0.0050	0	Diff <2x LOR	----
		bromodichloromethane	75-27-4	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		bromoform	75-25-2	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		bromomethane	74-83-9	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		carbon tetrachloride	56-23-5	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		chlorobenzene	108-90-7	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		chloroform	67-66-3	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		dibromochloromethane	124-48-1	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		dibromoethane, 1,2-	106-93-4	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		dichlorobenzene, 1,2-	95-50-1	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		dichlorobenzene, 1,3-	541-73-1	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		dichlorobenzene, 1,4-	106-46-7	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		dichlorodifluoromethane	75-71-8	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		dichloroethane, 1,1-	75-34-3	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		dichloroethane, 1,2-	107-06-2	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		dichloroethylene, 1,1-	75-35-4	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		dichloroethylene, cis-1,2-	156-59-2	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		dichloroethylene, trans-1,2-	156-60-5	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		dichloromethane	75-09-2	E611D	0.045	mg/kg	<0.045	<0.045	0	Diff <2x LOR	----
		dichloropropane, 1,2-	78-87-5	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		dichloropropylene, cis-1,3-	10061-01-5	E611D	0.030	mg/kg	<0.030	<0.030	0	Diff <2x LOR	----
		dichloropropylene, trans-1,3-	10061-02-6	E611D	0.030	mg/kg	<0.030	<0.030	0	Diff <2x LOR	----
		ethylbenzene	100-41-4	E611D	0.015	mg/kg	<0.015	<0.015	0	Diff <2x LOR	----
		hexane, n-	110-54-3	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		methyl ethyl ketone [MEK]	78-93-3	E611D	0.50	mg/kg	<0.50	<0.50	0	Diff <2x LOR	----
		methyl isobutyl ketone [MIBK]	108-10-1	E611D	0.50	mg/kg	<0.50	<0.50	0	Diff <2x LOR	----

Sub-Matrix: **Soil/Solid**

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Volatile Organic Compounds (QC Lot: 523819) - continued											
WT2205445-001	Anonymous	methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.040	mg/kg	<0.040	<0.040	0	Diff <2x LOR	----
		styrene	100-42-5	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		tetrachloroethylene	127-18-4	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		toluene	108-88-3	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		trichloroethane, 1,1,1-	71-55-6	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		trichloroethane, 1,1,2-	79-00-5	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		trichloroethylene	79-01-6	E611D	0.010	mg/kg	<0.010	<0.010	0	Diff <2x LOR	----
		trichlorofluoromethane	75-69-4	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		vinyl chloride	75-01-4	E611D	0.020	mg/kg	<0.020	<0.020	0	Diff <2x LOR	----
		xylene, m+p-	179601-23-1	E611D	0.030	mg/kg	<0.030	<0.030	0	Diff <2x LOR	----
		xylene, o-	95-47-6	E611D	0.030	mg/kg	<0.030	<0.030	0	Diff <2x LOR	----
Volatile Organic Compounds (QC Lot: 523823)											
WT2205475-001	Anonymous	acetone	67-64-1	E611D	0.50	mg/kg	<0.50	<0.50	0	Diff <2x LOR	----
		benzene	71-43-2	E611D	0.0050	mg/kg	<0.0050	<0.0050	0	Diff <2x LOR	----
		bromodichloromethane	75-27-4	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		bromoform	75-25-2	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		bromomethane	74-83-9	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		carbon tetrachloride	56-23-5	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		chlorobenzene	108-90-7	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		chloroform	67-66-3	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		dibromochloromethane	124-48-1	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		dibromoethane, 1,2-	106-93-4	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		dichlorobenzene, 1,2-	95-50-1	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		dichlorobenzene, 1,3-	541-73-1	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		dichlorobenzene, 1,4-	106-46-7	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		dichlorodifluoromethane	75-71-8	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		dichloroethane, 1,1-	75-34-3	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		dichloroethane, 1,2-	107-06-2	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		dichloroethylene, 1,1-	75-35-4	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		dichloroethylene, cis-1,2-	156-59-2	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		dichloroethylene, trans-1,2-	156-60-5	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		dichloromethane	75-09-2	E611D	0.045	mg/kg	<0.045	<0.045	0	Diff <2x LOR	----
		dichloropropane, 1,2-	78-87-5	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----

Sub-Matrix: **Soil/Solid**

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Volatile Organic Compounds (QC Lot: 523823) - continued											
WT2205475-001	Anonymous	dichloropropylene, cis-1,3-	10061-01-5	E611D	0.030	mg/kg	<0.030	<0.030	0	Diff <2x LOR	----
		dichloropropylene, trans-1,3-	10061-02-6	E611D	0.030	mg/kg	<0.030	<0.030	0	Diff <2x LOR	----
		ethylbenzene	100-41-4	E611D	0.015	mg/kg	<0.015	<0.015	0	Diff <2x LOR	----
		hexane, n-	110-54-3	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		methyl ethyl ketone [MEK]	78-93-3	E611D	0.50	mg/kg	<0.50	<0.50	0	Diff <2x LOR	----
		methyl isobutyl ketone [MIBK]	108-10-1	E611D	0.50	mg/kg	<0.50	<0.50	0	Diff <2x LOR	----
		methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.040	mg/kg	<0.040	<0.040	0	Diff <2x LOR	----
		styrene	100-42-5	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		tetrachloroethylene	127-18-4	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		toluene	108-88-3	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		trichloroethane, 1,1,1-	71-55-6	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		trichloroethane, 1,1,2-	79-00-5	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		trichloroethylene	79-01-6	E611D	0.010	mg/kg	<0.010	<0.010	0	Diff <2x LOR	----
		trichlorofluoromethane	75-69-4	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		vinyl chloride	75-01-4	E611D	0.020	mg/kg	<0.020	<0.020	0	Diff <2x LOR	----
		xylene, m+p-	179601-23-1	E611D	0.030	mg/kg	<0.030	<0.030	0	Diff <2x LOR	----
		xylene, o-	95-47-6	E611D	0.030	mg/kg	<0.030	<0.030	0	Diff <2x LOR	----
Hydrocarbons (QC Lot: 521707)											
WT2205480-001	S-12581540-220610-JB-MW4-22-0.05-0.6	F2 (C10-C16)	----	E601.SG-L	10	mg/kg	<10	<10	0	Diff <2x LOR	----
		F3 (C16-C34)	----	E601.SG-L	50	mg/kg	<50	<50	0	Diff <2x LOR	----
		F4 (C34-C50)	----	E601.SG-L	50	mg/kg	<50	<50	0	Diff <2x LOR	----
Hydrocarbons (QC Lot: 522359)											
WT2204211-006	Anonymous	F2 (C10-C16)	----	E601.SG-L	10	mg/kg	<10	<10	0	Diff <2x LOR	----
		F3 (C16-C34)	----	E601.SG-L	50	mg/kg	165	184	19	Diff <2x LOR	----
		F4 (C34-C50)	----	E601.SG-L	50	mg/kg	170	203	33	Diff <2x LOR	----
Hydrocarbons (QC Lot: 523820)											
WT2205445-001	Anonymous	F1 (C6-C10)	----	E581.F1	5.0	mg/kg	<5.0	<5.0	0	Diff <2x LOR	----
Hydrocarbons (QC Lot: 523824)											
WT2205475-001	Anonymous	F1 (C6-C10)	----	E581.F1	5.0	mg/kg	<5.0	<5.0	0	Diff <2x LOR	----
Hydrocarbons (QC Lot: 533956)											
WT2204211-006	Anonymous	F4G-sg	----	E601.F4G-L	250	mg/kg	760	830	70	Diff <2x LOR	----
Polycyclic Aromatic Hydrocarbons (QC Lot: 522357)											
WT2204211-006	Anonymous	acenaphthene	83-32-9	E642F	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----

Sub-Matrix: **Soil/Solid**

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	*Client sample ID*	*Analyte*	*CAS Number*	*Method*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD(%) or Difference*	*Duplicate Limits*	*Qualifier*
Polycyclic Aromatic Hydrocarbons (QC Lot: 522357) - continued											
WT2204211-006	Anonymous	acenaphthylene	208-96-8	E642F	0.050	mg/kg	0.390	0.330	16.6%	50%	----
		anthracene	120-12-7	E642F	0.050	mg/kg	0.243	0.200	19.4%	50%	----
		benz(a)anthracene	56-55-3	E642F	0.050	mg/kg	1.71	1.32	25.9%	50%	----
		benzo(a)pyrene	50-32-8	E642F	0.050	mg/kg	2.63	2.08	23.2%	50%	----
		benzo(b+j)fluoranthene	n/a	E642F	0.050	mg/kg	2.87	2.28	23.0%	50%	----
		benzo(g,h,i)perylene	191-24-2	E642F	0.050	mg/kg	1.45	1.24	15.5%	50%	----
		benzo(k)fluoranthene	207-08-9	E642F	0.050	mg/kg	1.04	0.796	26.8%	50%	----
		chrysene	218-01-9	E642F	0.050	mg/kg	1.64	1.24	27.8%	50%	----
		dibenz(a,h)anthracene	53-70-3	E642F	0.050	mg/kg	0.340	0.273	22.1%	50%	----
		fluoranthene	206-44-0	E642F	0.050	mg/kg	2.58	1.80	35.3%	50%	----
		fluorene	86-73-7	E642F	0.050	mg/kg	0.062	0.057	0.005	Diff <2x LOR	----
		indeno(1,2,3-c,d)pyrene	193-39-5	E642F	0.050	mg/kg	1.39	1.08	25.2%	50%	----
		methylnaphthalene, 1-	90-12-0	E642F	0.030	mg/kg	0.085	0.058	0.027	Diff <2x LOR	----
		methylnaphthalene, 2-	91-57-6	E642F	0.030	mg/kg	0.110	0.072	0.038	Diff <2x LOR	----
		naphthalene	91-20-3	E642F	0.010	mg/kg	0.122	0.073	49.7%	50%	----
		phenanthrene	85-01-8	E642F	0.050	mg/kg	0.673	0.522	25.3%	50%	----
		pyrene	129-00-0	E642F	0.050	mg/kg	2.48	1.67	38.9%	50%	----
Polychlorinated Biphenyls (QC Lot: 522358)											
WT2204211-006	Anonymous	Aroclor 1016	12674-11-2	E687	0.010	mg/kg	<0.010	<0.010	0	Diff <2x LOR	----
		Aroclor 1221	11104-28-2	E687	0.010	mg/kg	<0.010	<0.010	0	Diff <2x LOR	----
		Aroclor 1232	11141-16-5	E687	0.010	mg/kg	<0.010	<0.010	0	Diff <2x LOR	----
		Aroclor 1242	53469-21-9	E687	0.010	mg/kg	<0.010	<0.010	0	Diff <2x LOR	----
		Aroclor 1248	12672-29-6	E687	0.010	mg/kg	<0.010	<0.010	0	Diff <2x LOR	----
		Aroclor 1254	11097-69-1	E687	0.010	mg/kg	<0.010	<0.010	0	Diff <2x LOR	----
		Aroclor 1260	11096-82-5	E687	0.010	mg/kg	0.020	0.014	0.007	Diff <2x LOR	----
		Aroclor 1262	37324-23-5	E687	0.010	mg/kg	<0.010	<0.010	0	Diff <2x LOR	----
		Aroclor 1268	11100-14-4	E687	0.010	mg/kg	<0.010	<0.010	0	Diff <2x LOR	----

Method Blank (MB) Report

A Method Blank is an analyte-free matrix that undergoes sample processing identical to that carried out for test samples. Method Blank results are used to monitor and control for potential contamination from the laboratory environment and reagents. For most tests, the DQO for Method Blanks is for the result to be < LOR.

Sub-Matrix: **Soil/Solid**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Physical Tests (QCLot: 521746)						
conductivity (1:2 leachate)	----	E100-L	5	µS/cm	<5.00	----
Physical Tests (QCLot: 522344)						
moisture	----	E144	0.25	%	<0.25	----
Physical Tests (QCLot: 522592)						
moisture	----	E144	0.25	%	<0.25	----
Cyanides (QCLot: 522364)						
cyanide, weak acid dissociable	----	E336A	0.05	mg/kg	<0.050	----
Metals (QCLot: 521743)						
mercury	7439-97-6	E510	0.005	mg/kg	<0.0050	----
Metals (QCLot: 521744)						
antimony	7440-36-0	E440	0.1	mg/kg	<0.10	----
arsenic	7440-38-2	E440	0.1	mg/kg	<0.10	----
barium	7440-39-3	E440	0.5	mg/kg	<0.50	----
beryllium	7440-41-7	E440	0.1	mg/kg	<0.10	----
boron	7440-42-8	E440	5	mg/kg	<5.0	----
cadmium	7440-43-9	E440	0.02	mg/kg	<0.020	----
chromium	7440-47-3	E440	0.5	mg/kg	<0.50	----
cobalt	7440-48-4	E440	0.1	mg/kg	<0.10	----
copper	7440-50-8	E440	0.5	mg/kg	<0.50	----
lead	7439-92-1	E440	0.5	mg/kg	<0.50	----
molybdenum	7439-98-7	E440	0.1	mg/kg	<0.10	----
nickel	7440-02-0	E440	0.5	mg/kg	<0.50	----
selenium	7782-49-2	E440	0.2	mg/kg	<0.20	----
silver	7440-22-4	E440	0.1	mg/kg	<0.10	----
thallium	7440-28-0	E440	0.05	mg/kg	<0.050	----
uranium	7440-61-1	E440	0.05	mg/kg	<0.050	----
vanadium	7440-62-2	E440	0.2	mg/kg	<0.20	----
zinc	7440-66-6	E440	2	mg/kg	<2.0	----
Metals (QCLot: 521745)						
calcium, soluble ion content	7440-70-2	E484	0.5	mg/L	<0.50	----
magnesium, soluble ion content	7439-95-4	E484	0.5	mg/L	<0.50	----
sodium, soluble ion content	17341-25-2	E484	0.5	mg/L	<0.50	----
Metals (QCLot: 521747)						

Sub-Matrix: **Soil/Solid**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Metals (QCLot: 521747) - continued						
boron, hot water soluble	7440-42-8	E487	0.1	mg/kg	<0.10	----
Speciated Metals (QCLot: 521773)						
chromium, hexavalent [Cr VI]	18540-29-9	E532	0.1	mg/kg	<0.10	----
Volatile Organic Compounds (QCLot: 523819)						
acetone	67-64-1	E611D	0.5	mg/kg	<0.50	----
benzene	71-43-2	E611D	0.005	mg/kg	<0.0050	----
bromodichloromethane	75-27-4	E611D	0.05	mg/kg	<0.050	----
bromoform	75-25-2	E611D	0.05	mg/kg	<0.050	----
bromomethane	74-83-9	E611D	0.05	mg/kg	<0.050	----
carbon tetrachloride	56-23-5	E611D	0.05	mg/kg	<0.050	----
chlorobenzene	108-90-7	E611D	0.05	mg/kg	<0.050	----
chloroform	67-66-3	E611D	0.05	mg/kg	<0.050	----
dibromochloromethane	124-48-1	E611D	0.05	mg/kg	<0.050	----
dibromoethane, 1,2-	106-93-4	E611D	0.05	mg/kg	<0.050	----
dichlorobenzene, 1,2-	95-50-1	E611D	0.05	mg/kg	<0.050	----
dichlorobenzene, 1,3-	541-73-1	E611D	0.05	mg/kg	<0.050	----
dichlorobenzene, 1,4-	106-46-7	E611D	0.05	mg/kg	<0.050	----
dichlorodifluoromethane	75-71-8	E611D	0.05	mg/kg	<0.050	----
dichloroethane, 1,1-	75-34-3	E611D	0.05	mg/kg	<0.050	----
dichloroethane, 1,2-	107-06-2	E611D	0.05	mg/kg	<0.050	----
dichloroethylene, 1,1-	75-35-4	E611D	0.05	mg/kg	<0.050	----
dichloroethylene, cis-1,2-	156-59-2	E611D	0.05	mg/kg	<0.050	----
dichloroethylene, trans-1,2-	156-60-5	E611D	0.05	mg/kg	<0.050	----
dichloromethane	75-09-2	E611D	0.045	mg/kg	<0.045	----
dichloropropane, 1,2-	78-87-5	E611D	0.05	mg/kg	<0.050	----
dichloropropylene, cis-1,3-	10061-01-5	E611D	0.03	mg/kg	<0.030	----
dichloropropylene, trans-1,3-	10061-02-6	E611D	0.03	mg/kg	<0.030	----
ethylbenzene	100-41-4	E611D	0.015	mg/kg	<0.015	----
hexane, n-	110-54-3	E611D	0.05	mg/kg	<0.050	----
methyl ethyl ketone [MEK]	78-93-3	E611D	0.5	mg/kg	<0.50	----
methyl isobutyl ketone [MIBK]	108-10-1	E611D	0.5	mg/kg	<0.50	----
methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.04	mg/kg	<0.040	----
styrene	100-42-5	E611D	0.05	mg/kg	<0.050	----
tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.05	mg/kg	<0.050	----
tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.05	mg/kg	<0.050	----
tetrachloroethylene	127-18-4	E611D	0.05	mg/kg	<0.050	----

Sub-Matrix: **Soil/Solid**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Volatile Organic Compounds (QCLot: 523819) - continued						
toluene	108-88-3	E611D	0.05	mg/kg	<0.050	----
trichloroethane, 1,1,1-	71-55-6	E611D	0.05	mg/kg	<0.050	----
trichloroethane, 1,1,2-	79-00-5	E611D	0.05	mg/kg	<0.050	----
trichloroethylene	79-01-6	E611D	0.01	mg/kg	<0.010	----
trichlorofluoromethane	75-69-4	E611D	0.05	mg/kg	<0.050	----
vinyl chloride	75-01-4	E611D	0.02	mg/kg	<0.020	----
xylene, m+p-	179601-23-1	E611D	0.03	mg/kg	<0.030	----
xylene, o-	95-47-6	E611D	0.03	mg/kg	<0.030	----
Volatile Organic Compounds (QCLot: 523823)						
acetone	67-64-1	E611D	0.5	mg/kg	<0.50	----
benzene	71-43-2	E611D	0.005	mg/kg	<0.0050	----
bromodichloromethane	75-27-4	E611D	0.05	mg/kg	<0.050	----
bromoform	75-25-2	E611D	0.05	mg/kg	<0.050	----
bromomethane	74-83-9	E611D	0.05	mg/kg	<0.050	----
carbon tetrachloride	56-23-5	E611D	0.05	mg/kg	<0.050	----
chlorobenzene	108-90-7	E611D	0.05	mg/kg	<0.050	----
chloroform	67-66-3	E611D	0.05	mg/kg	<0.050	----
dibromochloromethane	124-48-1	E611D	0.05	mg/kg	<0.050	----
dibromoethane, 1,2-	106-93-4	E611D	0.05	mg/kg	<0.050	----
dichlorobenzene, 1,2-	95-50-1	E611D	0.05	mg/kg	<0.050	----
dichlorobenzene, 1,3-	541-73-1	E611D	0.05	mg/kg	<0.050	----
dichlorobenzene, 1,4-	106-46-7	E611D	0.05	mg/kg	<0.050	----
dichlorodifluoromethane	75-71-8	E611D	0.05	mg/kg	<0.050	----
dichloroethane, 1,1-	75-34-3	E611D	0.05	mg/kg	<0.050	----
dichloroethane, 1,2-	107-06-2	E611D	0.05	mg/kg	<0.050	----
dichloroethylene, 1,1-	75-35-4	E611D	0.05	mg/kg	<0.050	----
dichloroethylene, cis-1,2-	156-59-2	E611D	0.05	mg/kg	<0.050	----
dichloroethylene, trans-1,2-	156-60-5	E611D	0.05	mg/kg	<0.050	----
dichloromethane	75-09-2	E611D	0.045	mg/kg	<0.045	----
dichloropropane, 1,2-	78-87-5	E611D	0.05	mg/kg	<0.050	----
dichloropropylene, cis-1,3-	10061-01-5	E611D	0.03	mg/kg	<0.030	----
dichloropropylene, trans-1,3-	10061-02-6	E611D	0.03	mg/kg	<0.030	----
ethylbenzene	100-41-4	E611D	0.015	mg/kg	<0.015	----
hexane, n-	110-54-3	E611D	0.05	mg/kg	<0.050	----
methyl ethyl ketone [MEK]	78-93-3	E611D	0.5	mg/kg	<0.50	----
methyl isobutyl ketone [MIBK]	108-10-1	E611D	0.5	mg/kg	<0.50	----

Sub-Matrix: **Soil/Solid**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Volatile Organic Compounds (QCLot: 523823) - continued						
methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.04	mg/kg	<0.040	----
styrene	100-42-5	E611D	0.05	mg/kg	<0.050	----
tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.05	mg/kg	<0.050	----
tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.05	mg/kg	<0.050	----
tetrachloroethylene	127-18-4	E611D	0.05	mg/kg	<0.050	----
toluene	108-88-3	E611D	0.05	mg/kg	<0.050	----
trichloroethane, 1,1,1-	71-55-6	E611D	0.05	mg/kg	<0.050	----
trichloroethane, 1,1,2-	79-00-5	E611D	0.05	mg/kg	<0.050	----
trichloroethylene	79-01-6	E611D	0.01	mg/kg	<0.010	----
trichlorofluoromethane	75-69-4	E611D	0.05	mg/kg	<0.050	----
vinyl chloride	75-01-4	E611D	0.02	mg/kg	<0.020	----
xylene, m+p-	179601-23-1	E611D	0.03	mg/kg	<0.030	----
xylene, o-	95-47-6	E611D	0.03	mg/kg	<0.030	----
Hydrocarbons (QCLot: 521707)						
F2 (C10-C16)	----	E601.SG-L	10	mg/kg	<10	----
F3 (C16-C34)	----	E601.SG-L	50	mg/kg	<50	----
F4 (C34-C50)	----	E601.SG-L	50	mg/kg	<50	----
Hydrocarbons (QCLot: 522359)						
F2 (C10-C16)	----	E601.SG-L	10	mg/kg	<10	----
F3 (C16-C34)	----	E601.SG-L	50	mg/kg	<50	----
F4 (C34-C50)	----	E601.SG-L	50	mg/kg	<50	----
Hydrocarbons (QCLot: 523820)						
F1 (C6-C10)	----	E581.F1	5	mg/kg	<5.0	----
Hydrocarbons (QCLot: 523824)						
F1 (C6-C10)	----	E581.F1	5	mg/kg	<5.0	----
Hydrocarbons (QCLot: 532304)						
F4G-sg	----	E601.F4G-L	250	mg/kg	<250	----
Hydrocarbons (QCLot: 533956)						
F4G-sg	----	E601.F4G-L	250	mg/kg	<250	----
Polycyclic Aromatic Hydrocarbons (QCLot: 522357)						
acenaphthene	83-32-9	E642F	0.05	mg/kg	<0.050	----
acenaphthylene	208-96-8	E642F	0.05	mg/kg	<0.050	----
anthracene	120-12-7	E642F	0.05	mg/kg	<0.050	----
benz(a)anthracene	56-55-3	E642F	0.05	mg/kg	<0.050	----
benzo(a)pyrene	50-32-8	E642F	0.05	mg/kg	<0.050	----
benzo(b+j)fluoranthene	n/a	E642F	0.05	mg/kg	<0.050	----

Sub-Matrix: **Soil/Solid**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Polycyclic Aromatic Hydrocarbons (QCLot: 522357) - continued						
benzo(g,h,i)perylene	191-24-2	E642F	0.05	mg/kg	<0.050	----
benzo(k)fluoranthene	207-08-9	E642F	0.05	mg/kg	<0.050	----
chrysene	218-01-9	E642F	0.05	mg/kg	<0.050	----
dibenz(a,h)anthracene	53-70-3	E642F	0.05	mg/kg	<0.050	----
fluoranthene	206-44-0	E642F	0.05	mg/kg	<0.050	----
fluorene	86-73-7	E642F	0.05	mg/kg	<0.050	----
indeno(1,2,3-c,d)pyrene	193-39-5	E642F	0.05	mg/kg	<0.050	----
methylnaphthalene, 1-	90-12-0	E642F	0.03	mg/kg	<0.030	----
methylnaphthalene, 2-	91-57-6	E642F	0.03	mg/kg	<0.030	----
naphthalene	91-20-3	E642F	0.01	mg/kg	<0.010	----
phenanthrene	85-01-8	E642F	0.05	mg/kg	<0.050	----
pyrene	129-00-0	E642F	0.05	mg/kg	<0.050	----
Polychlorinated Biphenyls (QCLot: 522358)						
Aroclor 1016	12674-11-2	E687	0.01	mg/kg	<0.010	----
Aroclor 1221	11104-28-2	E687	0.01	mg/kg	<0.010	----
Aroclor 1232	11141-16-5	E687	0.01	mg/kg	<0.010	----
Aroclor 1242	53469-21-9	E687	0.01	mg/kg	<0.010	----
Aroclor 1248	12672-29-6	E687	0.01	mg/kg	<0.010	----
Aroclor 1254	11097-69-1	E687	0.01	mg/kg	<0.010	----
Aroclor 1260	11096-82-5	E687	0.01	mg/kg	<0.010	----
Aroclor 1262	37324-23-5	E687	0.01	mg/kg	<0.010	----
Aroclor 1268	11100-14-4	E687	0.01	mg/kg	<0.010	----

Laboratory Control Sample (LCS) Report

A Laboratory Control Sample (LCS) is an analyte-free matrix that has been fortified (spiked) with test analytes at known concentration and processed in an identical manner to test samples. LCS results are expressed as percent recovery, and are used to monitor and control test method accuracy and precision, independent of test sample matrix.

Sub-Matrix: **Soil/Solid**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Concentration	LCS	Low	High	Qualifier
Physical Tests (QCLot: 521746)									
conductivity (1:2 leachate)	----	E100-L	5	µS/cm	1409 µS/cm	94.5	90.0	110	----
Physical Tests (QCLot: 522344)									
moisture	----	E144	0.25	%	50 %	102	90.0	110	----
Physical Tests (QCLot: 522371)									
pH (1:2 soil:CaCl2-aq)	----	E108A	----	pH units	7 pH units	101	98.0	102	----
Physical Tests (QCLot: 522592)									
moisture	----	E144	0.25	%	50 %	100	90.0	110	----
Cyanides (QCLot: 522364)									
cyanide, weak acid dissociable	----	E336A	0.05	mg/kg	2.5 mg/kg	96.4	80.0	125	----
Metals (QCLot: 521743)									
mercury	7439-97-6	E510	0.005	mg/kg	0.1 mg/kg	95.5	80.0	120	----
Metals (QCLot: 521744)									
antimony	7440-36-0	E440	0.1	mg/kg	100 mg/kg	96.6	80.0	120	----
arsenic	7440-38-2	E440	0.1	mg/kg	100 mg/kg	103	80.0	120	----
barium	7440-39-3	E440	0.5	mg/kg	25 mg/kg	95.1	80.0	120	----
beryllium	7440-41-7	E440	0.1	mg/kg	10 mg/kg	97.0	80.0	120	----
boron	7440-42-8	E440	5	mg/kg	100 mg/kg	92.6	80.0	120	----
cadmium	7440-43-9	E440	0.02	mg/kg	10 mg/kg	100	80.0	120	----
chromium	7440-47-3	E440	0.5	mg/kg	25 mg/kg	102	80.0	120	----
cobalt	7440-48-4	E440	0.1	mg/kg	25 mg/kg	101	80.0	120	----
copper	7440-50-8	E440	0.5	mg/kg	25 mg/kg	99.1	80.0	120	----
lead	7439-92-1	E440	0.5	mg/kg	50 mg/kg	91.8	80.0	120	----
molybdenum	7439-98-7	E440	0.1	mg/kg	25 mg/kg	90.0	80.0	120	----
nickel	7440-02-0	E440	0.5	mg/kg	50 mg/kg	99.9	80.0	120	----
selenium	7782-49-2	E440	0.2	mg/kg	100 mg/kg	101	80.0	120	----
silver	7440-22-4	E440	0.1	mg/kg	10 mg/kg	# 65.8	80.0	120	RRQC
thallium	7440-28-0	E440	0.05	mg/kg	100 mg/kg	89.5	80.0	120	----
uranium	7440-61-1	E440	0.05	mg/kg	0.5 mg/kg	89.4	80.0	120	----
vanadium	7440-62-2	E440	0.2	mg/kg	50 mg/kg	105	80.0	120	----
zinc	7440-66-6	E440	2	mg/kg	50 mg/kg	97.4	80.0	120	----
Metals (QCLot: 521745)									
calcium, soluble ion content	7440-70-2	E484	0.5	mg/L	300 mg/L	104	70.0	130	----

Sub-Matrix: **Soil/Solid**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Concentration	LCS	Low	High	Qualifier
Metals (QCLot: 521745) - continued									
magnesium, soluble ion content	7439-95-4	E484	0.5	mg/L	50 mg/L	103	70.0	130	----
sodium, soluble ion content	17341-25-2	E484	0.5	mg/L	50 mg/L	102	70.0	130	----
Metals (QCLot: 521747)									
boron, hot water soluble	7440-42-8	E487	0.1	mg/kg	1.33333 mg/kg	115	70.0	130	----
Speciated Metals (QCLot: 521773)									
chromium, hexavalent [Cr VI]	18540-29-9	E532	0.1	mg/kg	0.8 mg/kg	87.6	80.0	120	----
Volatile Organic Compounds (QCLot: 523819)									
acetone	67-64-1	E611D	0.5	mg/kg	3.475 mg/kg	107	60.0	140	----
benzene	71-43-2	E611D	0.005	mg/kg	3.475 mg/kg	98.2	70.0	130	----
bromodichloromethane	75-27-4	E611D	0.05	mg/kg	3.475 mg/kg	108	50.0	140	----
bromoform	75-25-2	E611D	0.05	mg/kg	3.475 mg/kg	95.5	70.0	130	----
bromomethane	74-83-9	E611D	0.05	mg/kg	3.475 mg/kg	91.8	50.0	140	----
carbon tetrachloride	56-23-5	E611D	0.05	mg/kg	3.475 mg/kg	91.0	70.0	130	----
chlorobenzene	108-90-7	E611D	0.05	mg/kg	3.475 mg/kg	102	70.0	130	----
chloroform	67-66-3	E611D	0.05	mg/kg	3.475 mg/kg	101	70.0	130	----
dibromochloromethane	124-48-1	E611D	0.05	mg/kg	3.475 mg/kg	98.4	60.0	130	----
dibromoethane, 1,2-	106-93-4	E611D	0.05	mg/kg	3.475 mg/kg	95.9	70.0	130	----
dichlorobenzene, 1,2-	95-50-1	E611D	0.05	mg/kg	3.475 mg/kg	98.8	70.0	130	----
dichlorobenzene, 1,3-	541-73-1	E611D	0.05	mg/kg	3.475 mg/kg	100	70.0	130	----
dichlorobenzene, 1,4-	106-46-7	E611D	0.05	mg/kg	3.475 mg/kg	102	70.0	130	----
dichlorodifluoromethane	75-71-8	E611D	0.05	mg/kg	3.475 mg/kg	65.7	50.0	140	----
dichloroethane, 1,1-	75-34-3	E611D	0.05	mg/kg	3.475 mg/kg	101	60.0	130	----
dichloroethane, 1,2-	107-06-2	E611D	0.05	mg/kg	3.475 mg/kg	101	60.0	130	----
dichloroethylene, 1,1-	75-35-4	E611D	0.05	mg/kg	3.475 mg/kg	88.8	60.0	130	----
dichloroethylene, cis-1,2-	156-59-2	E611D	0.05	mg/kg	3.475 mg/kg	84.1	70.0	130	----
dichloroethylene, trans-1,2-	156-60-5	E611D	0.05	mg/kg	3.475 mg/kg	95.7	60.0	130	----
dichloromethane	75-09-2	E611D	0.045	mg/kg	3.475 mg/kg	101	70.0	130	----
dichloropropane, 1,2-	78-87-5	E611D	0.05	mg/kg	3.475 mg/kg	102	70.0	130	----
dichloropropylene, cis-1,3-	10061-01-5	E611D	0.03	mg/kg	3.475 mg/kg	99.8	70.0	130	----
dichloropropylene, trans-1,3-	10061-02-6	E611D	0.03	mg/kg	3.475 mg/kg	91.0	70.0	130	----
ethylbenzene	100-41-4	E611D	0.015	mg/kg	3.475 mg/kg	88.3	70.0	130	----
hexane, n-	110-54-3	E611D	0.05	mg/kg	3.475 mg/kg	87.6	70.0	130	----
methyl ethyl ketone [MEK]	78-93-3	E611D	0.5	mg/kg	3.475 mg/kg	89.0	60.0	140	----
methyl isobutyl ketone [MIBK]	108-10-1	E611D	0.5	mg/kg	3.475 mg/kg	76.9	60.0	140	----
methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.04	mg/kg	3.475 mg/kg	101	70.0	130	----
styrene	100-42-5	E611D	0.05	mg/kg	3.475 mg/kg	90.3	70.0	130	----

Sub-Matrix: **Soil/Solid**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Concentration	LCS	Low	High	Qualifier
Volatile Organic Compounds (QCLot: 523819) - continued									
tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.05	mg/kg	3.475 mg/kg	94.8	60.0	130	----
tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.05	mg/kg	3.475 mg/kg	95.1	60.0	130	----
tetrachloroethylene	127-18-4	E611D	0.05	mg/kg	3.475 mg/kg	89.0	60.0	130	----
toluene	108-88-3	E611D	0.05	mg/kg	3.475 mg/kg	89.0	70.0	130	----
trichloroethane, 1,1,1-	71-55-6	E611D	0.05	mg/kg	3.475 mg/kg	91.5	60.0	130	----
trichloroethane, 1,1,2-	79-00-5	E611D	0.05	mg/kg	3.475 mg/kg	103	60.0	130	----
trichloroethylene	79-01-6	E611D	0.01	mg/kg	3.475 mg/kg	89.7	60.0	130	----
trichlorofluoromethane	75-69-4	E611D	0.05	mg/kg	3.475 mg/kg	84.9	50.0	140	----
vinyl chloride	75-01-4	E611D	0.02	mg/kg	3.475 mg/kg	74.2	60.0	140	----
xylene, m+p-	179601-23-1	E611D	0.03	mg/kg	6.95 mg/kg	93.9	70.0	130	----
xylene, o-	95-47-6	E611D	0.03	mg/kg	3.475 mg/kg	89.4	70.0	130	----
Volatile Organic Compounds (QCLot: 523823)									
acetone	67-64-1	E611D	0.5	mg/kg	3.475 mg/kg	119	60.0	140	----
benzene	71-43-2	E611D	0.005	mg/kg	3.475 mg/kg	112	70.0	130	----
bromodichloromethane	75-27-4	E611D	0.05	mg/kg	3.475 mg/kg	122	50.0	140	----
bromoform	75-25-2	E611D	0.05	mg/kg	3.475 mg/kg	108	70.0	130	----
bromomethane	74-83-9	E611D	0.05	mg/kg	3.475 mg/kg	110	50.0	140	----
carbon tetrachloride	56-23-5	E611D	0.05	mg/kg	3.475 mg/kg	107	70.0	130	----
chlorobenzene	108-90-7	E611D	0.05	mg/kg	3.475 mg/kg	101	70.0	130	----
chloroform	67-66-3	E611D	0.05	mg/kg	3.475 mg/kg	115	70.0	130	----
dibromochloromethane	124-48-1	E611D	0.05	mg/kg	3.475 mg/kg	109	60.0	130	----
dibromoethane, 1,2-	106-93-4	E611D	0.05	mg/kg	3.475 mg/kg	107	70.0	130	----
dichlorobenzene, 1,2-	95-50-1	E611D	0.05	mg/kg	3.475 mg/kg	104	70.0	130	----
dichlorobenzene, 1,3-	541-73-1	E611D	0.05	mg/kg	3.475 mg/kg	102	70.0	130	----
dichlorobenzene, 1,4-	106-46-7	E611D	0.05	mg/kg	3.475 mg/kg	105	70.0	130	----
dichlorodifluoromethane	75-71-8	E611D	0.05	mg/kg	3.475 mg/kg	72.7	50.0	140	----
dichloroethane, 1,1-	75-34-3	E611D	0.05	mg/kg	3.475 mg/kg	101	60.0	130	----
dichloroethane, 1,2-	107-06-2	E611D	0.05	mg/kg	3.475 mg/kg	118	60.0	130	----
dichloroethylene, 1,1-	75-35-4	E611D	0.05	mg/kg	3.475 mg/kg	98.8	60.0	130	----
dichloroethylene, cis-1,2-	156-59-2	E611D	0.05	mg/kg	3.475 mg/kg	110	70.0	130	----
dichloroethylene, trans-1,2-	156-60-5	E611D	0.05	mg/kg	3.475 mg/kg	107	60.0	130	----
dichloromethane	75-09-2	E611D	0.045	mg/kg	3.475 mg/kg	119	70.0	130	----
dichloropropane, 1,2-	78-87-5	E611D	0.05	mg/kg	3.475 mg/kg	112	70.0	130	----
dichloropropylene, cis-1,3-	10061-01-5	E611D	0.03	mg/kg	3.475 mg/kg	116	70.0	130	----
dichloropropylene, trans-1,3-	10061-02-6	E611D	0.03	mg/kg	3.475 mg/kg	102	70.0	130	----
ethylbenzene	100-41-4	E611D	0.015	mg/kg	3.475 mg/kg	81.2	70.0	130	----
hexane, n-	110-54-3	E611D	0.05	mg/kg	3.475 mg/kg	93.9	70.0	130	----

Sub-Matrix: **Soil/Solid**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Concentration	LCS	Low	High	Qualifier
Volatile Organic Compounds (QCLot: 523823) - continued									
methyl ethyl ketone [MEK]	78-93-3	E611D	0.5	mg/kg	3.475 mg/kg	118	60.0	140	----
methyl isobutyl ketone [MIBK]	108-10-1	E611D	0.5	mg/kg	3.475 mg/kg	85.1	60.0	140	----
methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.04	mg/kg	3.475 mg/kg	104	70.0	130	----
styrene	100-42-5	E611D	0.05	mg/kg	3.475 mg/kg	83.5	70.0	130	----
tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.05	mg/kg	3.475 mg/kg	102	60.0	130	----
tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.05	mg/kg	3.475 mg/kg	104	60.0	130	----
tetrachloroethylene	127-18-4	E611D	0.05	mg/kg	3.475 mg/kg	99.7	60.0	130	----
toluene	108-88-3	E611D	0.05	mg/kg	3.475 mg/kg	89.6	70.0	130	----
trichloroethane, 1,1,1-	71-55-6	E611D	0.05	mg/kg	3.475 mg/kg	106	60.0	130	----
trichloroethane, 1,1,2-	79-00-5	E611D	0.05	mg/kg	3.475 mg/kg	105	60.0	130	----
trichloroethylene	79-01-6	E611D	0.01	mg/kg	3.475 mg/kg	107	60.0	130	----
trichlorofluoromethane	75-69-4	E611D	0.05	mg/kg	3.475 mg/kg	98.9	50.0	140	----
vinyl chloride	75-01-4	E611D	0.02	mg/kg	3.475 mg/kg	85.2	60.0	140	----
xylene, m+p-	179601-23-1	E611D	0.03	mg/kg	6.95 mg/kg	89.8	70.0	130	----
xylene, o-	95-47-6	E611D	0.03	mg/kg	3.475 mg/kg	79.8	70.0	130	----
Hydrocarbons (QCLot: 521707)									
F2 (C10-C16)	----	E601.SG-L	10	mg/kg	862.575 mg/kg	90.8	70.0	130	----
F3 (C16-C34)	----	E601.SG-L	50	mg/kg	1227.23 mg/kg	84.2	70.0	130	----
F4 (C34-C50)	----	E601.SG-L	50	mg/kg	777.05 mg/kg	122	70.0	130	----
Hydrocarbons (QCLot: 522359)									
F2 (C10-C16)	----	E601.SG-L	10	mg/kg	862.575 mg/kg	98.8	70.0	130	----
F3 (C16-C34)	----	E601.SG-L	50	mg/kg	1227.23 mg/kg	87.6	70.0	130	----
F4 (C34-C50)	----	E601.SG-L	50	mg/kg	777.05 mg/kg	125	70.0	130	----
Hydrocarbons (QCLot: 523820)									
F1 (C6-C10)	----	E581.F1	5	mg/kg	69.1875 mg/kg	105	80.0	120	----
Hydrocarbons (QCLot: 523824)									
F1 (C6-C10)	----	E581.F1	5	mg/kg	69.1875 mg/kg	110	80.0	120	----
Hydrocarbons (QCLot: 532304)									
F4G-sg	----	E601.F4G-L	250	mg/kg	1298.6 mg/kg	113	70.0	130	----
Hydrocarbons (QCLot: 533956)									
F4G-sg	----	E601.F4G-L	250	mg/kg	1298.6 mg/kg	93.0	70.0	130	----
Polycyclic Aromatic Hydrocarbons (QCLot: 522357)									
acenaphthene	83-32-9	E642F	0.05	mg/kg	0.8 mg/kg	106	60.0	130	----
acenaphthylene	208-96-8	E642F	0.05	mg/kg	0.8 mg/kg	113	60.0	130	----
anthracene	120-12-7	E642F	0.05	mg/kg	0.8 mg/kg	105	60.0	130	----

Sub-Matrix: **Soil/Solid**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Concentration	LCS	Low	High	Qualifier
Polycyclic Aromatic Hydrocarbons (QCLot: 522357) - continued									
benz(a)anthracene	56-55-3	E642F	0.05	mg/kg	0.8 mg/kg	98.8	60.0	130	----
benzo(a)pyrene	50-32-8	E642F	0.05	mg/kg	0.8 mg/kg	118	60.0	130	----
benzo(b+j)fluoranthene	n/a	E642F	0.05	mg/kg	0.8 mg/kg	105	60.0	130	----
benzo(g,h,i)perylene	191-24-2	E642F	0.05	mg/kg	0.8 mg/kg	91.3	60.0	130	----
benzo(k)fluoranthene	207-08-9	E642F	0.05	mg/kg	0.8 mg/kg	106	60.0	130	----
chrysene	218-01-9	E642F	0.05	mg/kg	0.8 mg/kg	105	60.0	130	----
dibenz(a,h)anthracene	53-70-3	E642F	0.05	mg/kg	0.8 mg/kg	94.8	60.0	130	----
fluoranthene	206-44-0	E642F	0.05	mg/kg	0.8 mg/kg	101	60.0	130	----
fluorene	86-73-7	E642F	0.05	mg/kg	0.8 mg/kg	108	60.0	130	----
indeno(1,2,3-c,d)pyrene	193-39-5	E642F	0.05	mg/kg	0.8 mg/kg	88.9	60.0	130	----
methylnaphthalene, 1-	90-12-0	E642F	0.03	mg/kg	0.8 mg/kg	109	60.0	130	----
methylnaphthalene, 2-	91-57-6	E642F	0.03	mg/kg	0.8 mg/kg	111	60.0	130	----
naphthalene	91-20-3	E642F	0.01	mg/kg	0.8 mg/kg	93.4	60.0	130	----
phenanthrene	85-01-8	E642F	0.05	mg/kg	0.8 mg/kg	95.6	60.0	130	----
pyrene	129-00-0	E642F	0.05	mg/kg	0.8 mg/kg	93.5	60.0	130	----
Polychlorinated Biphenyls (QCLot: 522358)									
Aroclor 1016	12674-11-2	E687	0.01	mg/kg	0.2 mg/kg	93.6	60.0	140	----
Aroclor 1221	11104-28-2	E687	0.01	mg/kg	0.2 mg/kg	93.6	60.0	140	----
Aroclor 1232	11141-16-5	E687	0.01	mg/kg	0.2 mg/kg	93.6	60.0	140	----
Aroclor 1242	53469-21-9	E687	0.01	mg/kg	0.2 mg/kg	93.6	60.0	140	----
Aroclor 1248	12672-29-6	E687	0.01	mg/kg	0.2 mg/kg	80.9	60.0	140	----
Aroclor 1254	11097-69-1	E687	0.01	mg/kg	0.2 mg/kg	89.9	60.0	140	----
Aroclor 1260	11096-82-5	E687	0.01	mg/kg	0.2 mg/kg	99.4	60.0	140	----
Aroclor 1262	37324-23-5	E687	0.01	mg/kg	0.2 mg/kg	99.4	60.0	140	----
Aroclor 1268	11100-14-4	E687	0.01	mg/kg	0.2 mg/kg	99.4	60.0	140	----

Qualifiers

Qualifier	Description
RRQC	*Refer to report comments for information regarding this QC result.*

Matrix Spike (MS) Report

A Matrix Spike (MS) is a randomly selected intra-laboratory replicate sample that has been fortified (spiked) with test analytes at known concentration, and processed in an identical manner to test samples. Matrix Spikes provide information regarding analyte recovery and potential matrix effects. MS DQO exceedances due to sample matrix may sometimes be unavoidable; in such cases, test results for the associated sample (or similar samples) may be subject to bias. ND – Recovery not determined, background level >= 1x spike level.

Sub-Matrix: **Soil/Solid**

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Cyanides (QCLot: 522364)										
WT2205475-001	Anonymous	cyanide, weak acid dissociable	----	E336A	1.27 mg/kg	2.5 mg/kg	102	70.0	130	----
Volatile Organic Compounds (QCLot: 523819)										
WT2205445-001	Anonymous	acetone	67-64-1	E611D	3.59 mg/kg	3.125 mg/kg	155	50.0	140	MES
		benzene	71-43-2	E611D	2.62 mg/kg	3.125 mg/kg	113	50.0	140	----
		bromodichloromethane	75-27-4	E611D	3.00 mg/kg	3.125 mg/kg	130	50.0	140	----
		bromoform	75-25-2	E611D	2.94 mg/kg	3.125 mg/kg	127	50.0	140	----
		bromomethane	74-83-9	E611D	2.72 mg/kg	3.125 mg/kg	118	50.0	140	----
		carbon tetrachloride	56-23-5	E611D	2.30 mg/kg	3.125 mg/kg	99.4	50.0	140	----
		chlorobenzene	108-90-7	E611D	2.65 mg/kg	3.125 mg/kg	114	50.0	140	----
		chloroform	67-66-3	E611D	2.66 mg/kg	3.125 mg/kg	115	50.0	140	----
		dibromochloromethane	124-48-1	E611D	2.79 mg/kg	3.125 mg/kg	120	50.0	140	----
		dibromoethane, 1,2-	106-93-4	E611D	2.74 mg/kg	3.125 mg/kg	118	50.0	140	----
		dichlorobenzene, 1,2-	95-50-1	E611D	2.46 mg/kg	3.125 mg/kg	106	50.0	140	----
		dichlorobenzene, 1,3-	541-73-1	E611D	2.29 mg/kg	3.125 mg/kg	98.9	50.0	140	----
		dichlorobenzene, 1,4-	106-46-7	E611D	2.35 mg/kg	3.125 mg/kg	102	50.0	140	----
		dichlorodifluoromethane	75-71-8	E611D	3.15 mg/kg	3.125 mg/kg	136	50.0	140	----
		dichloroethane, 1,1-	75-34-3	E611D	2.70 mg/kg	3.125 mg/kg	116	50.0	140	----
		dichloroethane, 1,2-	107-06-2	E611D	2.84 mg/kg	3.125 mg/kg	123	50.0	140	----
		dichloroethylene, 1,1-	75-35-4	E611D	2.40 mg/kg	3.125 mg/kg	103	50.0	140	----
		dichloroethylene, cis-1,2-	156-59-2	E611D	2.32 mg/kg	3.125 mg/kg	100	50.0	140	----
		dichloroethylene, trans-1,2-	156-60-5	E611D	2.46 mg/kg	3.125 mg/kg	106	50.0	140	----
		dichloromethane	75-09-2	E611D	2.68 mg/kg	3.125 mg/kg	116	50.0	140	----
		dichloropropane, 1,2-	78-87-5	E611D	2.82 mg/kg	3.125 mg/kg	122	50.0	140	----
		dichloropropylene, cis-1,3-	10061-01-5	E611D	2.69 mg/kg	3.125 mg/kg	116	50.0	140	----
		dichloropropylene, trans-1,3-	10061-02-6	E611D	2.51 mg/kg	3.125 mg/kg	108	50.0	140	----
		ethylbenzene	100-41-4	E611D	2.20 mg/kg	3.125 mg/kg	94.8	50.0	140	----
		hexane, n-	110-54-3	E611D	2.41 mg/kg	3.125 mg/kg	104	50.0	140	----
		methyl ethyl ketone [MEK]	78-93-3	E611D	2.10 mg/kg	3.125 mg/kg	90.6	50.0	140	----
		methyl isobutyl ketone [MIBK]	108-10-1	E611D	3.00 mg/kg	3.125 mg/kg	129	50.0	140	----
		methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	2.52 mg/kg	3.125 mg/kg	109	50.0	140	----
		styrene	100-42-5	E611D	2.40 mg/kg	3.125 mg/kg	104	50.0	140	----
		tetrachloroethane, 1,1,1,2-	630-20-6	E611D	2.54 mg/kg	3.125 mg/kg	110	50.0	140	----

Sub-Matrix: **Soil/Solid**

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Volatile Organic Compounds (QCLot: 523819) - continued										
WT2205445-001	Anonymous	tetrachloroethane, 1,1,2,2-	79-34-5	E611D	3.09 mg/kg	3.125 mg/kg	133	50.0	140	----
		tetrachloroethylene	127-18-4	E611D	2.09 mg/kg	3.125 mg/kg	90.3	50.0	140	----
		toluene	108-88-3	E611D	2.26 mg/kg	3.125 mg/kg	97.3	50.0	140	----
		trichloroethane, 1,1,1-	71-55-6	E611D	2.30 mg/kg	3.125 mg/kg	99.3	50.0	140	----
		trichloroethane, 1,1,2-	79-00-5	E611D	2.90 mg/kg	3.125 mg/kg	125	50.0	140	----
		trichloroethylene	79-01-6	E611D	2.27 mg/kg	3.125 mg/kg	98.1	50.0	140	----
		trichlorofluoromethane	75-69-4	E611D	2.38 mg/kg	3.125 mg/kg	103	50.0	140	----
		vinyl chloride	75-01-4	E611D	2.37 mg/kg	3.125 mg/kg	102	50.0	140	----
		xylene, m+p-	179601-23-1	E611D	4.66 mg/kg	6.25 mg/kg	100	50.0	140	----
		xylene, o-	95-47-6	E611D	2.29 mg/kg	3.125 mg/kg	98.7	50.0	140	----
Volatile Organic Compounds (QCLot: 523823)										
WT2205475-001	Anonymous	acetone	67-64-1	E611D	2.10 mg/kg	3.125 mg/kg	108	50.0	140	----
		benzene	71-43-2	E611D	2.12 mg/kg	3.125 mg/kg	108	50.0	140	----
		bromodichloromethane	75-27-4	E611D	2.21 mg/kg	3.125 mg/kg	113	50.0	140	----
		bromoform	75-25-2	E611D	1.98 mg/kg	3.125 mg/kg	101	50.0	140	----
		bromomethane	74-83-9	E611D	2.38 mg/kg	3.125 mg/kg	122	50.0	140	----
		carbon tetrachloride	56-23-5	E611D	2.00 mg/kg	3.125 mg/kg	102	50.0	140	----
		chlorobenzene	108-90-7	E611D	1.93 mg/kg	3.125 mg/kg	98.7	50.0	140	----
		chloroform	67-66-3	E611D	2.12 mg/kg	3.125 mg/kg	108	50.0	140	----
		dibromochloromethane	124-48-1	E611D	2.04 mg/kg	3.125 mg/kg	104	50.0	140	----
		dibromoethane, 1,2-	106-93-4	E611D	2.03 mg/kg	3.125 mg/kg	104	50.0	140	----
		dichlorobenzene, 1,2-	95-50-1	E611D	1.95 mg/kg	3.125 mg/kg	99.5	50.0	140	----
		dichlorobenzene, 1,3-	541-73-1	E611D	1.91 mg/kg	3.125 mg/kg	97.5	50.0	140	----
		dichlorobenzene, 1,4-	106-46-7	E611D	1.94 mg/kg	3.125 mg/kg	99.4	50.0	140	----
		dichlorodifluoromethane	75-71-8	E611D	2.79 mg/kg	3.125 mg/kg	143	50.0	140	MES
		dichloroethane, 1,1-	75-34-3	E611D	1.86 mg/kg	3.125 mg/kg	95.2	50.0	140	----
		dichloroethane, 1,2-	107-06-2	E611D	2.12 mg/kg	3.125 mg/kg	109	50.0	140	----
		dichloroethylene, 1,1-	75-35-4	E611D	1.97 mg/kg	3.125 mg/kg	100	50.0	140	----
		dichloroethylene, cis-1,2-	156-59-2	E611D	2.10 mg/kg	3.125 mg/kg	107	50.0	140	----
		dichloroethylene, trans-1,2-	156-60-5	E611D	2.03 mg/kg	3.125 mg/kg	104	50.0	140	----
		dichloromethane	75-09-2	E611D	2.20 mg/kg	3.125 mg/kg	112	50.0	140	----
		dichloropropane, 1,2-	78-87-5	E611D	2.08 mg/kg	3.125 mg/kg	106	50.0	140	----
		dichloropropylene, cis-1,3-	10061-01-5	E611D	2.09 mg/kg	3.125 mg/kg	107	50.0	140	----
		dichloropropylene, trans-1,3-	10061-02-6	E611D	1.90 mg/kg	3.125 mg/kg	97.1	50.0	140	----
		ethylbenzene	100-41-4	E611D	1.62 mg/kg	3.125 mg/kg	82.9	50.0	140	----
		hexane, n-	110-54-3	E611D	1.94 mg/kg	3.125 mg/kg	98.9	50.0	140	----

Sub-Matrix: **Soil/Solid**

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Volatile Organic Compounds (QCLot: 523823) - continued										
WT2205475-001	Anonymous	methyl ethyl ketone [MEK]	78-93-3	E611D	2.08 mg/kg	3.125 mg/kg	106	50.0	140	----
		methyl isobutyl ketone [MIBK]	108-10-1	E611D	1.58 mg/kg	3.125 mg/kg	80.6	50.0	140	----
		methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	2.00 mg/kg	3.125 mg/kg	102	50.0	140	----
		styrene	100-42-5	E611D	1.64 mg/kg	3.125 mg/kg	83.8	50.0	140	----
		tetrachloroethane, 1,1,1,2-	630-20-6	E611D	1.94 mg/kg	3.125 mg/kg	99.0	50.0	140	----
		tetrachloroethane, 1,1,2,2-	79-34-5	E611D	1.92 mg/kg	3.125 mg/kg	98.0	50.0	140	----
		tetrachloroethylene	127-18-4	E611D	1.95 mg/kg	3.125 mg/kg	99.7	50.0	140	----
		toluene	108-88-3	E611D	1.79 mg/kg	3.125 mg/kg	91.6	50.0	140	----
		trichloroethane, 1,1,1-	71-55-6	E611D	2.00 mg/kg	3.125 mg/kg	102	50.0	140	----
		trichloroethane, 1,1,2-	79-00-5	E611D	1.98 mg/kg	3.125 mg/kg	101	50.0	140	----
		trichloroethylene	79-01-6	E611D	2.02 mg/kg	3.125 mg/kg	103	50.0	140	----
		trichlorofluoromethane	75-69-4	E611D	2.13 mg/kg	3.125 mg/kg	109	50.0	140	----
		vinyl chloride	75-01-4	E611D	2.11 mg/kg	3.125 mg/kg	108	50.0	140	----
		xylene, m+p-	179601-23-1	E611D	3.49 mg/kg	6.25 mg/kg	89.2	50.0	140	----
		xylene, o-	95-47-6	E611D	1.58 mg/kg	3.125 mg/kg	80.7	50.0	140	----
Hydrocarbons (QCLot: 521707)										
WT2205480-001	S-12581540-220610-JB-MW4-22-0.05-0.6	F2 (C10-C16)	----	E601.SG-L	640 mg/kg	862.575 mg/kg	93.7	60.0	140	----
		F3 (C16-C34)	----	E601.SG-L	810 mg/kg	1227.213 mg/kg	83.3	60.0	140	----
		F4 (C34-C50)	----	E601.SG-L	722 mg/kg	777.05 mg/kg	117	60.0	140	----
Hydrocarbons (QCLot: 522359)										
WT2204211-006	Anonymous	F2 (C10-C16)	----	E601.SG-L	672 mg/kg	862.575 mg/kg	101	60.0	140	----
		F3 (C16-C34)	----	E601.SG-L	917 mg/kg	1227.213 mg/kg	96.7	60.0	140	----
		F4 (C34-C50)	----	E601.SG-L	871 mg/kg	777.05 mg/kg	145	60.0	140	E
Hydrocarbons (QCLot: 523820)										
WT2205445-001	Anonymous	F1 (C6-C10)	----	E581.F1	53.1 mg/kg	62.5 mg/kg	114	60.0	140	----
Hydrocarbons (QCLot: 523824)										
WT2205475-001	Anonymous	F1 (C6-C10)	----	E581.F1	39.6 mg/kg	62.5 mg/kg	101	60.0	140	----
Hydrocarbons (QCLot: 533956)										
WT2204211-006	Anonymous	F4G-sg	----	E601.F4G-L	1180 mg/kg	1298.6 mg/kg	118	60.0	140	----
Polycyclic Aromatic Hydrocarbons (QCLot: 522357)										
WT2204211-006	Anonymous	acenaphthene	83-32-9	E642F	0.682 mg/kg	0.8 mg/kg	85.5	50.0	140	----
		acenaphthylene	208-96-8	E642F	0.761 mg/kg	0.8 mg/kg	95.4	50.0	140	----
		anthracene	120-12-7	E642F	0.790 mg/kg	0.8 mg/kg	99.0	50.0	140	----
		benz(a)anthracene	56-55-3	E642F	ND mg/kg	0.8 mg/kg	ND	50.0	140	----
		benzo(a)pyrene	50-32-8	E642F	ND mg/kg	0.8 mg/kg	ND	50.0	140	----

Sub-Matrix: **Soil/Solid**

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Polycyclic Aromatic Hydrocarbons (QCLot: 522357) - continued										
WT2204211-006	Anonymous	benzo(b+j)fluoranthene	n/a	E642F	ND mg/kg	0.8 mg/kg	ND	50.0	140	----
		benzo(g,h,i)perylene	191-24-2	E642F	ND mg/kg	0.8 mg/kg	ND	50.0	140	----
		benzo(k)fluoranthene	207-08-9	E642F	ND mg/kg	0.8 mg/kg	ND	50.0	140	----
		chrysene	218-01-9	E642F	ND mg/kg	0.8 mg/kg	ND	50.0	140	----
		dibenz(a,h)anthracene	53-70-3	E642F	0.635 mg/kg	0.8 mg/kg	79.5	50.0	140	----
		fluoranthene	206-44-0	E642F	ND mg/kg	0.8 mg/kg	ND	50.0	140	----
		fluorene	86-73-7	E642F	0.723 mg/kg	0.8 mg/kg	90.6	50.0	140	----
		indeno(1,2,3-c,d)pyrene	193-39-5	E642F	ND mg/kg	0.8 mg/kg	ND	50.0	140	----
		methylnaphthalene, 1-	90-12-0	E642F	0.677 mg/kg	0.8 mg/kg	84.8	50.0	140	----
		methylnaphthalene, 2-	91-57-6	E642F	0.690 mg/kg	0.8 mg/kg	86.4	50.0	140	----
		naphthalene	91-20-3	E642F	0.661 mg/kg	0.8 mg/kg	82.8	50.0	140	----
		phenanthrene	85-01-8	E642F	0.595 mg/kg	0.8 mg/kg	74.5	50.0	140	----
		pyrene	129-00-0	E642F	ND mg/kg	0.8 mg/kg	ND	50.0	140	----
Polychlorinated Biphenyls (QCLot: 522358)										
WT2204211-006	Anonymous	Aroclor 1016	12674-11-2	E687	0.192 mg/kg	0.2 mg/kg	96.1	50.0	150	----
		Aroclor 1221	11104-28-2	E687	0.192 mg/kg	0.2 mg/kg	96.1	50.0	150	----
		Aroclor 1232	11141-16-5	E687	0.192 mg/kg	0.2 mg/kg	96.1	50.0	150	----
		Aroclor 1242	53469-21-9	E687	0.191 mg/kg	0.2 mg/kg	95.5	50.0	150	----
		Aroclor 1248	12672-29-6	E687	0.192 mg/kg	0.2 mg/kg	96.1	50.0	150	----
		Aroclor 1254	11097-69-1	E687	0.184 mg/kg	0.2 mg/kg	92.0	50.0	150	----
		Aroclor 1260	11096-82-5	E687	0.200 mg/kg	0.2 mg/kg	100	50.0	150	----
		Aroclor 1262	37324-23-5	E687	0.219 mg/kg	0.2 mg/kg	110	50.0	150	----
		Aroclor 1268	11100-14-4	E687	0.219 mg/kg	0.2 mg/kg	110	50.0	150	----

Qualifiers

Qualifier	Description
E	*Matrix Spike recovery outside ALS DQO due to heterogeneous analyte background in sample.*
MES	*Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).*

Reference Material (RM) Report

A Reference Material (RM) is a homogenous material with known and well-established analyte concentrations. RMs are processed in an identical manner to test samples, and are used to monitor and control the accuracy and precision of a test method for a typical sample matrix. RM results are expressed as percent recovery of the target analyte concentration. RM targets may be certified target concentrations provided by the RM supplier, or may be ALS long-term mean values (for empirical test methods).

Sub-Matrix:

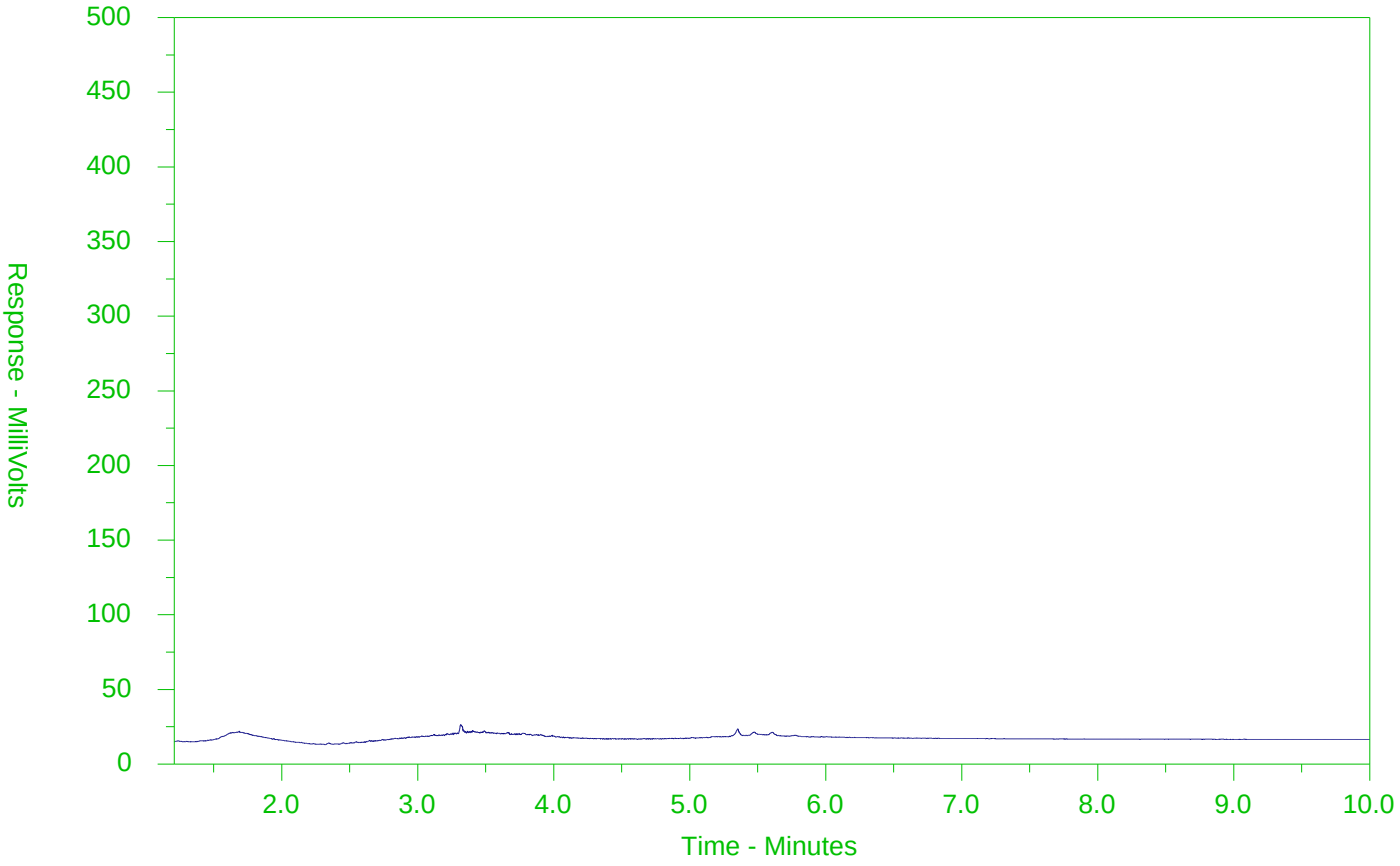
					Reference Material (RM) Report				
					RM Target	Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Reference Material ID	Analyte	CAS Number	Method	Concentration	RM	Low	High	Qualifier
Physical Tests (QCLot: 521746)									
	RM	conductivity (1:2 leachate)	----	E100-L	3396 µS/cm	103	70.0	130	----
Metals (QCLot: 521743)									
	RM	mercury	7439-97-6	E510	0.0585 mg/kg	106	70.0	130	----
Metals (QCLot: 521744)									
	RM	antimony	7440-36-0	E440	3.99 mg/kg	107	70.0	130	----
	RM	arsenic	7440-38-2	E440	3.73 mg/kg	102	70.0	130	----
	RM	barium	7440-39-3	E440	105 mg/kg	103	70.0	130	----
	RM	beryllium	7440-41-7	E440	0.349 mg/kg	109	70.0	130	----
	RM	boron	7440-42-8	E440	8.5 mg/kg	109	40.0	160	----
	RM	cadmium	7440-43-9	E440	0.91 mg/kg	101	70.0	130	----
	RM	chromium	7440-47-3	E440	101 mg/kg	98.0	70.0	130	----
	RM	cobalt	7440-48-4	E440	6.9 mg/kg	103	70.0	130	----
	RM	copper	7440-50-8	E440	123 mg/kg	125	70.0	130	----
	RM	lead	7439-92-1	E440	267 mg/kg	108	70.0	130	----
	RM	molybdenum	7439-98-7	E440	1.03 mg/kg	109	70.0	130	----
	RM	nickel	7440-02-0	E440	26.7 mg/kg	100	70.0	130	----
	RM	silver	7440-22-4	E440	4.06 mg/kg	87.2	70.0	130	----
	RM	thallium	7440-28-0	E440	0.0786 mg/kg	96.3	40.0	160	----
	RM	uranium	7440-61-1	E440	0.52 mg/kg	97.1	70.0	130	----
	RM	vanadium	7440-62-2	E440	32.7 mg/kg	101	70.0	130	----
	RM	zinc	7440-66-6	E440	297 mg/kg	98.4	70.0	130	----
Metals (QCLot: 521745)									
	RM	calcium, soluble ion content	7440-70-2	E484	178.9 mg/L	103	70.0	130	----
	RM	magnesium, soluble ion content	7439-95-4	E484	53.95 mg/L	105	70.0	130	----
	RM	sodium, soluble ion content	17341-25-2	E484	199.6 mg/L	107	70.0	130	----
Metals (QCLot: 521747)									
	RM	boron, hot water soluble	7440-42-8	E487	5.92 mg/kg	105	70.0	130	----
Speciated Metals (QCLot: 521773)									
	RM	chromium, hexavalent [Cr VI]	18540-29-9	E532	131 mg/kg	# 147	70.0	130	RM-H

Qualifiers

Qualifier	Description
RM-H	Reference Material recovery was above ALS DQO. Non-detected sample results are considered reliable. Other results, if reported, have been qualified.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2205480-001-E601.SG-L
Client Sample ID: S-12581540-220610-JB-MW4-22-0.05-0.6



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →	← Motor Oils/Lube Oils/Grease →		
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

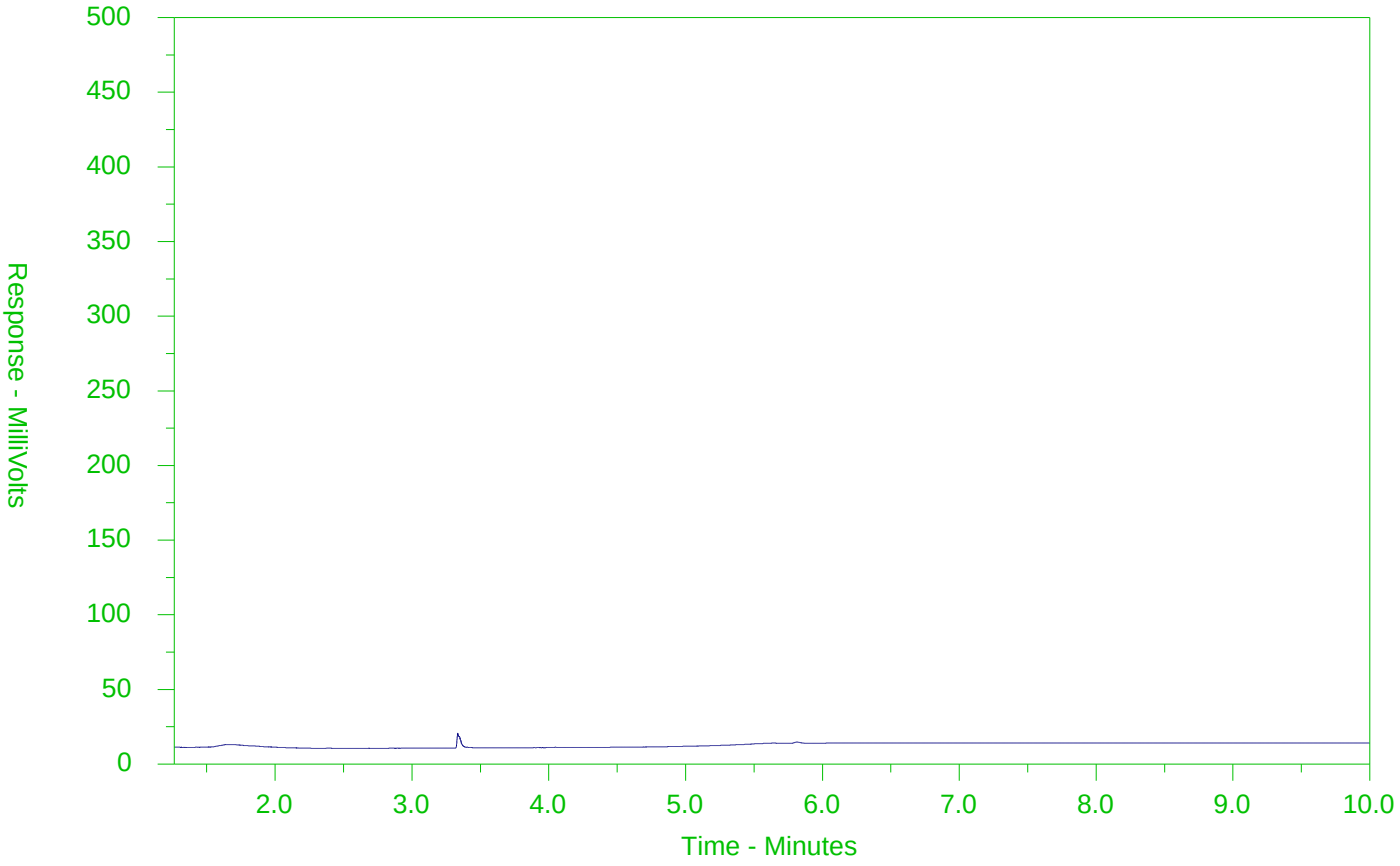
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2205480-002-E601.SG-L
Client Sample ID: S-12581540-220610-JB-MW4-22-1.5-2.1



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →	← Motor Oils/Lube Oils/Grease →		
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

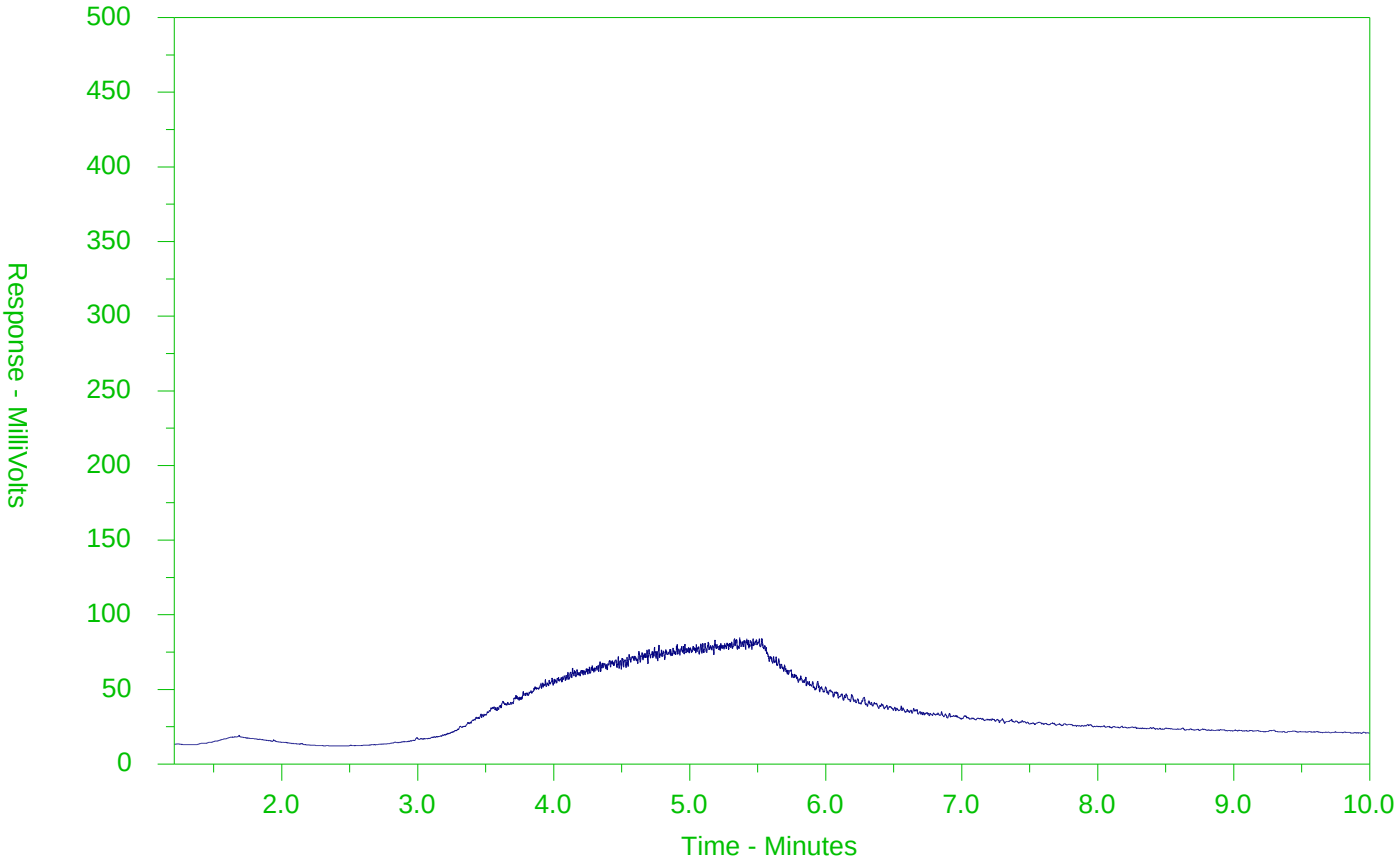
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2205480-004-E601.SG-L
Client Sample ID: S-12581540-220610-JB-BH13-22-0.0-0.6



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →	← Motor Oils/Lube Oils/Grease →		
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

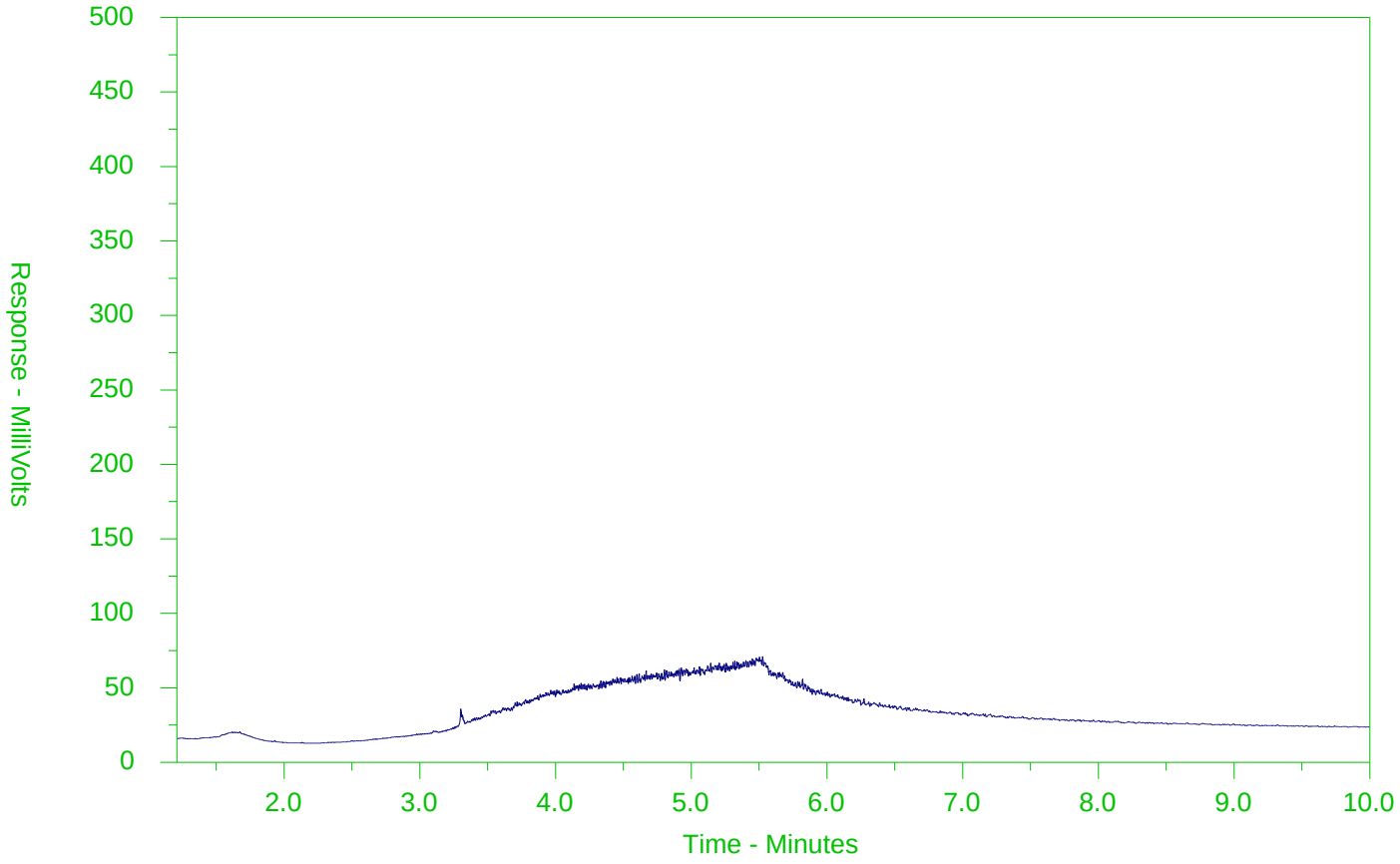
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2205480-005-E601.SG-L
Client Sample ID: S-12581540-220610-JB-BH13-22-1.5-1.8



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →	← Motor Oils/Lube Oils/Grease →		
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

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Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

Chain of Custody (COC) / Analytical Request Form

COC Number: 20

Page

Canada Toll Free: 1 800 668 9878

www.alsglobal.com

Environmental Division
Waterloo
Work Order Reference
WT2205480

Telephone : +1 519 886 6910

Report To	Contact and company name below will appear on the final report
Company:	GHD Ltd. (Acct 13791)
Contact:	Jennifer Balkwill
Phone:	519-884-0510
	Company address below will appear on the final report
Street:	455 Phillip St.
City/Province:	Waterloo, ON
Postal Code:	N2L 3X2
Invoice To	Same as Report To ☑ YES ☐ NO
	Copy of Invoice with Report ☐ YES ☑ NO
Company:	GHD Ltd. (Acct 13791)
Contact:	

Reports / Recipients	
Select Report Format:	☑ PDF ☐ EXCEL ☐ EDD (DIGITAL)
Merge QC/QCI Reports with COA	☐ YES ☐ NO ☐ N/A
☐ Compare Results to Criteria on Report - provide details below if box checked	
Select Distribution:	☑ EMAIL ☐ MAIL ☐ FAX
Email 1 or Fax	jennifer.balkwill@ghd.com
Email 2	See SSOW/PO
Email 3	

Invoice Recipients	
Select Invoice Distribution:	☑ EMAIL ☐ MAIL ☐ FAX
Email 1 or Fax	Invoicing-Canada@ghd.com
Email 2	

Project Information	
ALS Account # / Quote #:	
Job #:	12581540
PO / AFE:	735-003274
LSD:	

Oil and Gas Required Fields (client use)	
AFE/Cost Center:	PO#:
Major/Minor Code:	Routing Code:
Requisitioner:	
Location:	

ALS Lab Work Order # (lab use only): WT2205480

ALS Contact: Rick H

Sampler:

Turnaround Time (TAT) Requested

☑ Routine [R] if received by 3pm M-F - no surcharges apply
☐ 4 day [P4] if received by 3pm M-F - 20% rush surcharge minimum
☐ 3 day [P3] if received by 3pm M-F - 25% rush surcharge minimum
☐ 2 day [P2] if received by 3pm M-F - 50% rush surcharge minimum
☐ 1 day [E] if received by 3pm M-F - 100% rush surcharge minimum
Same day [E2] if received by 10am M-S - 200% rush surcharge. Additional fees may apply to rush requests on weekends, statutory holidays and non-routine tests

Date and Time Required for all E&P TATs:

For tests that can not be performed according to the TAT requested, you will be contacted.

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	O.Reg Metals and Inorganics	PAHs(PAH-511-WT)	VOC/PHC(VOC-F1-F4-511-P-WT)	PCBs	VOC,F1 Trip Blank	TCLP Metals/Inorganics	TCLP VOCs	TCLP benzo(a)pyrene	TCLP PCBs	Ignitability	SAMPLES ON HOLD	EXTENDED STORAGE REQUIRED	SUSPECTED HAZARD (see notes)
	S-1258 1540-220610-SB-MW4-22_0.05-0.6	10-JUN-22	09:00	SOIL	5	✓	✓	✓	✓									
	S-1258 1540-220610-SB-MW4-22_1.5-2.1		09:15		3			✓										
	S-1258 1540-220610-SB-BH14-22_0.8-1.4		11:40		1	✓												
	S-1258 1540-220610-SB-BH13-22_0.0-0.6		13:35		4	✓	✓	✓	✓									
	S-1258 1540-220610-SB-BH13-22_1.5-1.8		13:45		3			✓										
	S-1258 1540-220610-SB-BH12-22_0.05-0.6		14:30		1	✓												
	~~S-1258 1540-220610-SB-BH12-22~~																	
	S-1258 1540-220610-SB-TRIP BLANK	↓		↓	1					✓								

Drinking Water (DW) Samples[1] (client use)	Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)
Are samples taken from a Regulated DW System? ☐ YES ☑ NO	
Are samples for human consumption/ use? ☐ YES ☑ NO	

SAMPLE RECEIPT DETAILS (lab use only)

Cooling Method: ☐ NONE ☑ ICE ☐ ICE PACKS ☐ FROZEN ☐ COOLING INITIATED

Submission Comments identified on Sample Receipt Notification: ☐ YES ☐ NO

Cooler Custody Seals Intact: ☐ YES ☐ N/A Sample Custody Seals Intact: ☐ YES ☐ N/A

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
				2.7			

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)		
Released by: H BISSON	Date: 2022-06-10	Time: 1645	Received by:	Date:	Time:	Received by: BB	Date: 06 13 22	Time: 1030

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

ALS 2020 FRONT

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a **Regulated Drinking Water (DW) System**, please submit using an **Authorized DW COC form**.

CERTIFICATE OF ANALYSIS

Work Order	: **WT2205639**	Page	: 1 of 41
Amendment	: **1**		
Client	: **GHD Limited**	Laboratory	: Waterloo - Environmental
Contact	: Jennifer Balkwill	Account Manager	: Rick Hawthorne
Address	: 455 Phillip Street Waterloo ON Canada N2L 3X2	Address	: 60 Northland Road, Unit 1 Waterloo ON Canada N2V 2B8
Telephone	: ----	Telephone	: +1 519 886 6910
Project	: 12581540	Date Samples Received	: 15-Jun-2022 14:40
PO	: 735-003274	Date Analysis Commenced	: 16-Jun-2022
C-O-C number	: ----	Issue Date	: 23-Jun-2022 17:02
Sampler	: Jeffrey Bisson		
Site	: ----		
Quote number	: 12581540 - City of Mississauga		
No. of samples received	: 21		
No. of samples analysed	: 21		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with FDA 21 CFR Part 11.

Signatories	*Position*	*Laboratory Department*
Amanda Ganouri-Lumsden	Department Manager - Microbiology and Prep	Centralized Prep, Waterloo, Ontario
Jeremy Gingras	Team Leader - Semi-Volatile Instrumentation	Organics, Waterloo, Ontario
Jocelyn Kennedy	Department Manager - Semi-Volatile Organics	Organics, Waterloo, Ontario
Jon Fisher	Department Manager - Inorganics	Inorganics, Waterloo, Ontario
Jon Fisher	Department Manager - Inorganics	Metals, Waterloo, Ontario
Sarah Birch	Team Leader - Volatiles	Organics, Waterloo, Ontario

General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.
Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key : CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances
LOR: Limit of Reporting (detection limit).

Unit	*Description*
-	No Unit
%	percent
mg/kg	milligrams per kilogram
mg/L	milligrams per litre
mS/cm	millisiemens per centimetre
pH units	pH units

>: greater than.
<: less than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Qualifiers

Qualifier	*Description*
AI	*Analytical interferences may be present. Result may be biased high.*
DLM	*Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity).*
R	*The ion abundance ratio(s) did not meet the acceptance criteria. Value is an estimated maximum.*
RRR	*Refer to report comments for issues regarding this analysis.*

Analytical Results

WT2205639-001

Sub-Matrix:**Soil**
(Matrix: **Soil/Solid**)

Client sample ID: S-12581540-220614-JB-BH2-22-0.0-0.3
Client sampling date / time: 14-Jun-2022 16:15

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Physical Tests								
conductivity (1:2 leachate)	----	0.193	0.00500	mS/cm	E100-L	20-Jun-2022	21-Jun-2022	526293
moisture	----	10.0	0.25	%	E144	-	16-Jun-2022	527203
pH (1:2 soil:CaCl2-aq)	----	9.94	0.10	pH units	E108A	16-Jun-2022	17-Jun-2022	526568
Cyanides								
cyanide, weak acid dissociable	----	<0.050	0.050	mg/kg	E336A	16-Jun-2022	17-Jun-2022	526403
Saturated Paste Extractables								
calcium, soluble ion content	7440-70-2	21.8	0.50	mg/L	E484	20-Jun-2022	21-Jun-2022	526295
magnesium, soluble ion content	7439-95-4	1.11	0.50	mg/L	E484	20-Jun-2022	21-Jun-2022	526295
sodium, soluble ion content	17341-25-2	13.6	0.50	mg/L	E484	20-Jun-2022	21-Jun-2022	526295
sodium adsorption ratio [SAR]	----	0.77	0.10	-	E484	20-Jun-2022	21-Jun-2022	526295
Metals								
antimony	7440-36-0	0.70	0.10	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
arsenic	7440-38-2	4.35	0.10	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
barium	7440-39-3	58.4	0.50	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
beryllium	7440-41-7	0.24	0.10	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
boron	7440-42-8	8.1	5.0	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
boron, hot water soluble	7440-42-8	0.29	0.10	mg/kg	E487	20-Jun-2022	20-Jun-2022	526296
cadmium	7440-43-9	0.464	0.020	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
chromium	7440-47-3	176	0.50	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
cobalt	7440-48-4	4.29	0.10	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
copper	7440-50-8	24.9	0.50	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
lead	7439-92-1	37.1	0.50	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
mercury	7439-97-6	0.0168	0.0050	mg/kg	E510	20-Jun-2022	20-Jun-2022	526291
molybdenum	7439-98-7	2.67	0.10	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
nickel	7440-02-0	21.2	0.50	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
selenium	7782-49-2	<0.20	0.20	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
silver	7440-22-4	<0.10	0.50	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
thallium	7440-28-0	0.066	0.050	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
uranium	7440-61-1	0.415	0.050	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
vanadium	7440-62-2	89.3	0.20	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
zinc	7440-66-6	77.0	2.0	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
Speciated Metals								
chromium, hexavalent [Cr VI]	18540-29-9	4.70	0.10	mg/kg	E532	16-Jun-2022	17-Jun-2022	526326
Volatile Organic Compounds								
acetone	67-64-1	<0.50	0.50	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
benzene	71-43-2	<0.0050	0.0050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
bromodichloromethane	75-27-4	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
bromoform	75-25-2	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
bromomethane	74-83-9	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
carbon tetrachloride	56-23-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
chlorobenzene	108-90-7	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
chloroform	67-66-3	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dibromochloromethane	124-48-1	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dibromoethane, 1,2-	106-93-4	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichlorobenzene, 1,2-	95-50-1	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichlorobenzene, 1,3-	541-73-1	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichlorobenzene, 1,4-	106-46-7	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichlorodifluoromethane	75-71-8	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635

Analytical Results

WT2205639-001

Sub-Matrix: **Soil**
(Matrix: **Soil/Solid**)

Client sample ID: S-12581540-220614-JB-BH2-22-0.0-0.3
Client sampling date / time: 14-Jun-2022 16:15

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
dichloroethane, 1,1-	75-34-3	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloroethane, 1,2-	107-06-2	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloroethylene, 1,1-	75-35-4	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloroethylene, cis-1,2-	156-59-2	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloroethylene, trans-1,2-	156-60-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloromethane	75-09-2	<0.045	0.045	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloropropane, 1,2-	78-87-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloropropylene, cis+trans-1,3-	542-75-6	<0.050	0.05	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloropropylene, cis-1,3-	10061-01-5	<0.030	0.030	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloropropylene, trans-1,3-	10061-02-6	<0.030	0.030	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
ethylbenzene	100-41-4	<0.015	0.015	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
hexane, n-	110-54-3	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
methyl ethyl ketone [MEK]	78-93-3	<0.50	0.50	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
methyl isobutyl ketone [MIBK]	108-10-1	<0.50	0.50	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
methyl-tert-butyl ether [MTBE]	1634-04-4	<0.040	0.040	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
styrene	100-42-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
tetrachloroethane, 1,1,1,2-	630-20-6	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
tetrachloroethane, 1,1,2,2-	79-34-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
tetrachloroethylene	127-18-4	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
toluene	108-88-3	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
trichloroethane, 1,1,1-	71-55-6	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
trichloroethane, 1,1,2-	79-00-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
trichloroethylene	79-01-6	<0.010	0.010	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
trichlorofluoromethane	75-69-4	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
vinyl chloride	75-01-4	<0.020	0.020	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
xylene, m+p-	179601-23-1	<0.030	0.030	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
xylene, o-	95-47-6	<0.030	0.030	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
xylenes, total	1330-20-7	<0.050	0.05	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
BTEX, total	----	<0.10	0.1	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
Volatile Organic Compounds Surrogates								
bromofluorobenzene, 4-	460-00-4	75.7	0.10	%	E611D	16-Jun-2022	16-Jun-2022	526635
difluorobenzene, 1,4-	540-36-3	91.2	0.10	%	E611D	16-Jun-2022	16-Jun-2022	526635
Hydrocarbons								
F1 (C6-C10)	----	<5.0	5.0	mg/kg	E581.F1	16-Jun-2022	16-Jun-2022	526634
F2 (C10-C16)	----	<10 DLM	59	mg/kg	E601.SG-L	20-Jun-2022	22-Jun-2022	527742
F3 (C16-C34)	----	1440	177	mg/kg	E601.SG-L	20-Jun-2022	22-Jun-2022	527742
F4 (C34-C50)	----	4350	177	mg/kg	E601.SG-L	20-Jun-2022	22-Jun-2022	527742
F4G-sg	----	14000	250	mg/kg	E601.F4G-L	22-Jun-2022	22-Jun-2022	533665
F1-BTEX	----	<5.0	5	mg/kg	EC580	-	17-Jun-2022	-
hydrocarbons, total (C6-C50)	----	5790	257	mg/kg	EC581	-	17-Jun-2022	-
chromatogram to baseline at nC50	n/a	NO	-	-	E601.SG-L	20-Jun-2022	22-Jun-2022	527742
Hydrocarbons Surrogates								
bromobenzotrifluoride, 2- (F2-F4 surr)	392-83-6	78.8	7.4	%	E601.SG-L	20-Jun-2022	22-Jun-2022	527742
dichlorotoluene, 3,4-	97-75-0	70.0	1.0	%	E581.F1	16-Jun-2022	16-Jun-2022	526634

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

WT2205639-002

Sub-Matrix: **Soil**
(Matrix: **Soil/Solid**)

Client sample ID: S-12581540-220614-JB-BH3-22-0.0-0.6
Client sampling date / time: 14-Jun-2022 09:40

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Physical Tests								
conductivity (1:2 leachate)	----	0.428	0.00500	mS/cm	E100-L	20-Jun-2022	21-Jun-2022	526293
moisture	----	7.40	0.25	%	E144	-	16-Jun-2022	527203
pH (1:2 soil:CaCl2-aq)	----	9.90	0.10	pH units	E108A	16-Jun-2022	17-Jun-2022	526568
Cyanides								
cyanide, weak acid dissociable	----	<0.050	0.050	mg/kg	E336A	16-Jun-2022	17-Jun-2022	526403
Saturated Paste Extractables								
calcium, soluble ion content	7440-70-2	19.6	0.50	mg/L	E484	20-Jun-2022	21-Jun-2022	526295
magnesium, soluble ion content	7439-95-4	13.7	0.50	mg/L	E484	20-Jun-2022	21-Jun-2022	526295
sodium, soluble ion content	17341-25-2	51.1	0.50	mg/L	E484	20-Jun-2022	21-Jun-2022	526295
sodium adsorption ratio [SAR]	----	2.17	0.10	-	E484	20-Jun-2022	21-Jun-2022	526295
Metals								
antimony	7440-36-0	0.92	0.10	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
arsenic	7440-38-2	406	0.10	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
barium	7440-39-3	134	0.50	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
beryllium	7440-41-7	0.29	0.10	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
boron	7440-42-8	13.6	5.0	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
boron, hot water soluble	7440-42-8	0.82	0.10	mg/kg	E487	20-Jun-2022	20-Jun-2022	526296
cadmium	7440-43-9	4.42	0.020	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
chromium	7440-47-3	129	0.50	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
cobalt	7440-48-4	6.34	0.10	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
copper	7440-50-8	48.4	0.50	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
lead	7439-92-1	102	0.50	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
mercury	7439-97-6	0.0360	0.0050	mg/kg	E510	20-Jun-2022	20-Jun-2022	526291
molybdenum	7439-98-7	2.39	0.10	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
nickel	7440-02-0	234	0.50	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
selenium	7782-49-2	<0.20	0.20	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
silver	7440-22-4	<0.10	0.50	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
thallium	7440-28-0	0.214	0.050	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
uranium	7440-61-1	0.694	0.050	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
vanadium	7440-62-2	360	0.20	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
zinc	7440-66-6	209	2.0	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
Speciated Metals								
chromium, hexavalent [Cr VI]	18540-29-9	0.76	0.10	mg/kg	E532	16-Jun-2022	17-Jun-2022	526326
Volatile Organic Compounds								
acetone	67-64-1	<0.50	0.50	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
benzene	71-43-2	<0.0050	0.0050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
bromodichloromethane	75-27-4	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
bromoform	75-25-2	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
bromomethane	74-83-9	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
carbon tetrachloride	56-23-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
chlorobenzene	108-90-7	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
chloroform	67-66-3	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dibromochloromethane	124-48-1	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dibromoethane, 1,2-	106-93-4	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichlorobenzene, 1,2-	95-50-1	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichlorobenzene, 1,3-	541-73-1	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichlorobenzene, 1,4-	106-46-7	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichlorodifluoromethane	75-71-8	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635

Analytical Results

WT2205639-002

Sub-Matrix: **Soil**
(Matrix: **Soil/Solid**)

Client sample ID: S-12581540-220614-JB-BH3-22-0.0-0.6
Client sampling date / time: 14-Jun-2022 09:40

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
dichloroethane, 1,1-	75-34-3	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloroethane, 1,2-	107-06-2	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloroethylene, 1,1-	75-35-4	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloroethylene, cis-1,2-	156-59-2	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloroethylene, trans-1,2-	156-60-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloromethane	75-09-2	<0.045	0.045	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloropropane, 1,2-	78-87-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloropropylene, cis+trans-1,3-	542-75-6	<0.050	0.05	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloropropylene, cis-1,3-	10061-01-5	<0.030	0.030	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloropropylene, trans-1,3-	10061-02-6	<0.030	0.030	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
ethylbenzene	100-41-4	<0.015	0.015	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
hexane, n-	110-54-3	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
methyl ethyl ketone [MEK]	78-93-3	<0.50	0.50	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
methyl isobutyl ketone [MIBK]	108-10-1	<0.50	0.50	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
methyl-tert-butyl ether [MTBE]	1634-04-4	<0.040	0.040	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
styrene	100-42-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
tetrachloroethane, 1,1,1,2-	630-20-6	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
tetrachloroethane, 1,1,2,2-	79-34-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
tetrachloroethylene	127-18-4	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
toluene	108-88-3	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
trichloroethane, 1,1,1-	71-55-6	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
trichloroethane, 1,1,2-	79-00-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
trichloroethylene	79-01-6	<0.010	0.010	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
trichlorofluoromethane	75-69-4	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
vinyl chloride	75-01-4	<0.020	0.020	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
xylene, m+p-	179601-23-1	<0.030	0.030	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
xylene, o-	95-47-6	<0.030	0.030	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
xylenes, total	1330-20-7	<0.050	0.05	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
BTEX, total	----	<0.10	0.1	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
Volatile Organic Compounds Surrogates								
bromofluorobenzene, 4-	460-00-4	72.3	0.10	%	E611D	16-Jun-2022	16-Jun-2022	526635
difluorobenzene, 1,4-	540-36-3	86.0	0.10	%	E611D	16-Jun-2022	16-Jun-2022	526635
Hydrocarbons								
F1 (C6-C10)	----	<5.0	5.0	mg/kg	E581.F1	16-Jun-2022	16-Jun-2022	526634
F2 (C10-C16)	----	<10	33	mg/kg	E601.SG-L	21-Jun-2022	23-Jun-2022	531387
F3 (C16-C34)	----	714 DLM,	100	mg/kg	E601.SG-L	21-Jun-2022	23-Jun-2022	531387
F4 (C34-C50)	----	1830 DLM,	100	mg/kg	E601.SG-L	21-Jun-2022	23-Jun-2022	531387
F4G-sg	----	5620	250	mg/kg	E601.F4G-L	23-Jun-2022	23-Jun-2022	536034
F1-BTEX	----	<5.0	5	mg/kg	EC580	-	17-Jun-2022	-
hydrocarbons, total (C6-C50)	----	2540	145	mg/kg	EC581	-	17-Jun-2022	-
chromatogram to baseline at nC50	n/a	NO	-	-	E601.SG-L	21-Jun-2022	23-Jun-2022	531387
Hydrocarbons Surrogates								
bromobenzotrifluoride, 2- (F2-F4 surr)	392-83-6	93.8	4.2	%	E601.SG-L	21-Jun-2022	23-Jun-2022	531387
dichlorotoluene, 3,4-	97-75-0	73.8	1.0	%	E581.F1	16-Jun-2022	16-Jun-2022	526634

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

WT2205639-003

Sub-Matrix: **Soil** (Matrix: **Soil/Solid**)

Client sample ID: S-12581540-220614-JB-BH3-22-0.0-0.6X

Client sampling date / time: 14-Jun-2022 09:40

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Physical Tests								
conductivity (1:2 leachate)	----	0.373	0.00500	mS/cm	E100-L	20-Jun-2022	21-Jun-2022	526293
moisture	----	6.87	0.25	%	E144	-	16-Jun-2022	527203
pH (1:2 soil:CaCl2-aq)	----	9.79	0.10	pH units	E108A	16-Jun-2022	17-Jun-2022	526568
Cyanides								
cyanide, weak acid dissociable	----	<0.050	0.050	mg/kg	E336A	16-Jun-2022	17-Jun-2022	526403
Saturated Paste Extractables								
calcium, soluble ion content	7440-70-2	16.6	0.50	mg/L	E484	20-Jun-2022	21-Jun-2022	526295
magnesium, soluble ion content	7439-95-4	5.00	0.50	mg/L	E484	20-Jun-2022	21-Jun-2022	526295
sodium, soluble ion content	17341-25-2	53.9	0.50	mg/L	E484	20-Jun-2022	21-Jun-2022	526295
sodium adsorption ratio [SAR]	----	2.98	0.10	-	E484	20-Jun-2022	21-Jun-2022	526295
Metals								
antimony	7440-36-0	0.96	0.10	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
arsenic	7440-38-2	170	0.10	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
barium	7440-39-3	85.7	0.50	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
beryllium	7440-41-7	0.29	0.10	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
boron	7440-42-8	10.6	5.0	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
boron, hot water soluble	7440-42-8	0.88	0.10	mg/kg	E487	20-Jun-2022	20-Jun-2022	526296
cadmium	7440-43-9	2.64	0.020	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
chromium	7440-47-3	94.4	0.50	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
cobalt	7440-48-4	5.36	0.10	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
copper	7440-50-8	64.3	0.50	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
lead	7439-92-1	85.4	0.50	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
mercury	7439-97-6	0.0313	0.0050	mg/kg	E510	20-Jun-2022	20-Jun-2022	526291
molybdenum	7439-98-7	2.12	0.10	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
nickel	7440-02-0	109	0.50	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
selenium	7782-49-2	<0.20	0.20	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
silver	7440-22-4	<0.10	0.50	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
thallium	7440-28-0	0.145	0.050	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
uranium	7440-61-1	0.559	0.050	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
vanadium	7440-62-2	145	0.20	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
zinc	7440-66-6	187	2.0	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
Speciated Metals								
chromium, hexavalent [Cr VI]	18540-29-9	<0.10	0.10	mg/kg	E532	16-Jun-2022	17-Jun-2022	526326

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

WT2205639-004

Sub-Matrix: **Soil** (Matrix: **Soil/Solid**)

Client sample ID: S-12581540-220614-JB-BH4-22-0.0-0.6

Client sampling date / time: 14-Jun-2022 08:25

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Physical Tests								
conductivity (1:2 leachate)	----	0.583	0.00500	mS/cm	E100-L	20-Jun-2022	21-Jun-2022	526293
moisture	----	7.23	0.25	%	E144	-	16-Jun-2022	527203
pH (1:2 soil:CaCl2-aq)	----	10.9	0.10	pH units	E108A	16-Jun-2022	17-Jun-2022	526568
Cyanides								

Analytical Results

WT2205639-004

Sub-Matrix: **Soil**
(Matrix: **Soil/Solid**)

Client sample ID: S-12581540-220614-JB-BH4-22-0.0-0.6
Client sampling date / time: 14-Jun-2022 08:25

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Cyanides								
cyanide, weak acid dissociable	----	<0.050	0.050	mg/kg	E336A	16-Jun-2022	17-Jun-2022	526403
Saturated Paste Extractables								
calcium, soluble ion content	7440-70-2	105	0.50	mg/L	E484	20-Jun-2022	21-Jun-2022	526295
magnesium, soluble ion content	7439-95-4	<0.50	0.50	mg/L	E484	20-Jun-2022	21-Jun-2022	526295
sodium, soluble ion content	17341-25-2	13.3	0.50	mg/L	E484	20-Jun-2022	21-Jun-2022	526295
sodium adsorption ratio [SAR]	----	0.36	0.10	-	E484	20-Jun-2022	21-Jun-2022	526295
Metals								
antimony	7440-36-0	0.60	0.10	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
arsenic	7440-38-2	4.79	0.10	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
barium	7440-39-3	51.3	0.50	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
beryllium	7440-41-7	0.26	0.10	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
boron	7440-42-8	14.5	5.0	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
boron, hot water soluble	7440-42-8	0.93	0.10	mg/kg	E487	20-Jun-2022	20-Jun-2022	526296
cadmium	7440-43-9	0.423	0.020	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
chromium	7440-47-3	95.8	0.50	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
cobalt	7440-48-4	3.92	0.10	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
copper	7440-50-8	28.6	0.50	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
lead	7439-92-1	26.0	0.50	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
mercury	7439-97-6	0.0098	0.0050	mg/kg	E510	20-Jun-2022	20-Jun-2022	526291
molybdenum	7439-98-7	2.85	0.10	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
nickel	7440-02-0	23.4	0.50	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
selenium	7782-49-2	<0.20	0.20	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
silver	7440-22-4	<0.10	0.50	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
thallium	7440-28-0	0.190	0.050	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
uranium	7440-61-1	0.456	0.050	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
vanadium	7440-62-2	67.5	0.20	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
zinc	7440-66-6	112	2.0	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
Speciated Metals								
chromium, hexavalent [Cr VI]	18540-29-9	2.98	0.10	mg/kg	E532	16-Jun-2022	17-Jun-2022	526326
Volatile Organic Compounds								
acetone	67-64-1	<0.50	0.50	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
benzene	71-43-2	<0.0050	0.0050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
bromodichloromethane	75-27-4	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
bromoform	75-25-2	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
bromomethane	74-83-9	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
carbon tetrachloride	56-23-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
chlorobenzene	108-90-7	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
chloroform	67-66-3	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dibromochloromethane	124-48-1	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dibromoethane, 1,2-	106-93-4	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichlorobenzene, 1,2-	95-50-1	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichlorobenzene, 1,3-	541-73-1	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichlorobenzene, 1,4-	106-46-7	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichlorodifluoromethane	75-71-8	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloroethane, 1,1-	75-34-3	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloroethane, 1,2-	107-06-2	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloroethylene, 1,1-	75-35-4	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloroethylene, cis-1,2-	156-59-2	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635

Analytical Results

WT2205639-004

Sub-Matrix: **Soil**
(Matrix: **Soil/Solid**)

Client sample ID: S-12581540-220614-JB-BH4-22-0.0-0.6
Client sampling date / time: 14-Jun-2022 08:25

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
dichloroethylene, trans-1,2-	156-60-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloromethane	75-09-2	<0.045	0.045	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloropropane, 1,2-	78-87-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloropropylene, cis+trans-1,3-	542-75-6	<0.050	0.05	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloropropylene, cis-1,3-	10061-01-5	<0.030	0.030	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloropropylene, trans-1,3-	10061-02-6	<0.030	0.030	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
ethylbenzene	100-41-4	<0.015	0.015	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
hexane, n-	110-54-3	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
methyl ethyl ketone [MEK]	78-93-3	<0.50	0.50	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
methyl isobutyl ketone [MIBK]	108-10-1	<0.50	0.50	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
methyl-tert-butyl ether [MTBE]	1634-04-4	<0.040	0.040	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
styrene	100-42-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
tetrachloroethane, 1,1,1,2-	630-20-6	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
tetrachloroethane, 1,1,2,2-	79-34-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
tetrachloroethylene	127-18-4	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
toluene	108-88-3	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
trichloroethane, 1,1,1-	71-55-6	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
trichloroethane, 1,1,2-	79-00-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
trichloroethylene	79-01-6	<0.010	0.010	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
trichlorofluoromethane	75-69-4	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
vinyl chloride	75-01-4	<0.020	0.020	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
xylene, m+p-	179601-23-1	<0.030	0.030	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
xylene, o-	95-47-6	<0.030	0.030	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
xylenes, total	1330-20-7	<0.050	0.05	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
BTEX, total	----	<0.10	0.1	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
Volatile Organic Compounds Surrogates								
bromofluorobenzene, 4-	460-00-4	75.2	0.10	%	E611D	16-Jun-2022	16-Jun-2022	526635
difluorobenzene, 1,4-	540-36-3	91.4	0.10	%	E611D	16-Jun-2022	16-Jun-2022	526635
Hydrocarbons								
F1 (C6-C10)	----	<5.0	5.0	mg/kg	E581.F1	16-Jun-2022	16-Jun-2022	526634
F2 (C10-C16)	----	<10 DLM	57	mg/kg	E601.SG-L	20-Jun-2022	22-Jun-2022	527742
F2-naphthalene	----	<25	57	mg/kg	EC600	-	20-Jun-2022	-
F3 (C16-C34)	----	2790	171	mg/kg	E601.SG-L	20-Jun-2022	22-Jun-2022	527742
F3-PAH	n/a	2780	171	mg/kg	EC600	-	20-Jun-2022	-
F4 (C34-C50)	----	5450	171	mg/kg	E601.SG-L	20-Jun-2022	22-Jun-2022	527742
F4G-sg	----	15800	250	mg/kg	E601.F4G-L	22-Jun-2022	22-Jun-2022	533665
F1-BTEX	----	<5.0	5	mg/kg	EC580	-	17-Jun-2022	-
hydrocarbons, total (C6-C50)	----	8240	248	mg/kg	EC581	-	17-Jun-2022	-
chromatogram to baseline at nC50	n/a	NO	-	-	E601.SG-L	20-Jun-2022	22-Jun-2022	527742
Hydrocarbons Surrogates								
bromobenzotrifluoride, 2- (F2-F4 surr)	392-83-6	78.4	7.1	%	E601.SG-L	20-Jun-2022	22-Jun-2022	527742
dichlorotoluene, 3,4-	97-75-0	67.2	1.0	%	E581.F1	16-Jun-2022	16-Jun-2022	526634
Polycyclic Aromatic Hydrocarbons								
acenaphthene	83-32-9	<0.050	0.050	mg/kg	E642F	16-Jun-2022	18-Jun-2022	526650
acenaphthylene	208-96-8	<0.050	0.050	mg/kg	E642F	16-Jun-2022	18-Jun-2022	526650
anthracene	120-12-7	0.152	0.050	mg/kg	E642F	16-Jun-2022	18-Jun-2022	526650
benz(a)anthracene	56-55-3	0.740	0.050	mg/kg	E642F	16-Jun-2022	18-Jun-2022	526650
benzo(a)pyrene	50-32-8	0.834	0.050	mg/kg	E642F	16-Jun-2022	18-Jun-2022	526650

Analytical Results

WT2205639-004

Sub-Matrix: **Soil** (Matrix: **Soil/Solid**)

Client sample ID: S-12581540-220614-JB-BH4-22-0.0-0.6

Client sampling date / time: 14-Jun-2022 08:25

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons								
benzo(b+j)fluoranthene	n/a	0.971	0.050	mg/kg	E642F	16-Jun-2022	18-Jun-2022	526650
benzo(g,h,i)perylene	191-24-2	0.591	0.050	mg/kg	E642F	16-Jun-2022	18-Jun-2022	526650
benzo(k)fluoranthene	207-08-9	0.380	0.050	mg/kg	E642F	16-Jun-2022	18-Jun-2022	526650
chrysene	218-01-9	0.913	0.050	mg/kg	E642F	16-Jun-2022	18-Jun-2022	526650
dibenz(a,h)anthracene	53-70-3	0.146	0.050	mg/kg	E642F	16-Jun-2022	18-Jun-2022	526650
fluoranthene	206-44-0	1.66	0.050	mg/kg	E642F	16-Jun-2022	18-Jun-2022	526650
fluorene	86-73-7	<0.050	0.050	mg/kg	E642F	16-Jun-2022	18-Jun-2022	526650
indeno(1,2,3-c,d)pyrene	193-39-5	0.376	0.050	mg/kg	E642F	16-Jun-2022	18-Jun-2022	526650
methylnaphthalene, 1-	90-12-0	<0.030	0.030	mg/kg	E642F	16-Jun-2022	18-Jun-2022	526650
methylnaphthalene, 1+2-	----	<0.050	0.05	mg/kg	E642F	16-Jun-2022	18-Jun-2022	526650
methylnaphthalene, 2-	91-57-6	<0.030	0.030	mg/kg	E642F	16-Jun-2022	18-Jun-2022	526650
naphthalene	91-20-3	0.022	0.020	mg/kg	E642F	16-Jun-2022	18-Jun-2022	526650
phenanthrene	85-01-8	0.574	0.050	mg/kg	E642F	16-Jun-2022	18-Jun-2022	526650
pyrene	129-00-0	1.53	0.050	mg/kg	E642F	16-Jun-2022	18-Jun-2022	526650
Polycyclic Aromatic Hydrocarbons Surrogates								
fluorobiphenyl, 2-	321-60-8	112	0.1	%	E642F	16-Jun-2022	18-Jun-2022	526650
terphenyl-d14, p-	1718-51-0	83.1	0.1	%	E642F	16-Jun-2022	18-Jun-2022	526650

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

WT2205639-005

Sub-Matrix: **Soil** (Matrix: **Soil/Solid**)

Client sample ID: S-12581540-220614-JB-BH4-22-0.0-0.6X

Client sampling date / time: 14-Jun-2022 08:25

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Physical Tests								
moisture	----	7.26	0.25	%	E144	-	16-Jun-2022	527203
Polycyclic Aromatic Hydrocarbons								
acenaphthene	83-32-9	<0.050	0.050	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
acenaphthylene	208-96-8	<0.050	0.050	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
anthracene	120-12-7	0.096	0.050	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
benz(a)anthracene	56-55-3	0.482	0.050	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
benzo(a)pyrene	50-32-8	0.536 R.	0.050	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
benzo(b+j)fluoranthene	n/a	0.592	0.050	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
benzo(g,h,i)perylene	191-24-2	0.471	0.050	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
benzo(k)fluoranthene	207-08-9	0.278	0.050	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
chrysene	218-01-9	0.651	0.050	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
dibenz(a,h)anthracene	53-70-3	0.121	0.050	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
fluoranthene	206-44-0	1.12	0.050	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
fluorene	86-73-7	<0.050	0.050	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
indeno(1,2,3-c,d)pyrene	193-39-5	0.353	0.050	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
methylnaphthalene, 1-	90-12-0	<0.030	0.030	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
methylnaphthalene, 1+2-	----	<0.050	0.05	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
methylnaphthalene, 2-	91-57-6	<0.030	0.030	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
naphthalene	91-20-3	<0.010 DLM,	0.020	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
phenanthrene	85-01-8	0.362	0.050	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650

Analytical Results

WT2205639-005

Sub-Matrix:**Soil** (Matrix: **Soil/Solid**)

Client sample ID: S-12581540-220614-JB-BH4-22-0.0-0.6X

Client sampling date / time: 14-Jun-2022 08:25

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons								
pyrene	129-00-0	1.05	0.050	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
Polycyclic Aromatic Hydrocarbons Surrogates								
fluorobiphenyl, 2-	321-60-8	66.4	0.1	%	E642F	16-Jun-2022	17-Jun-2022	526650
terphenyl-d14, p-	1718-51-0	94.0	0.1	%	E642F	16-Jun-2022	17-Jun-2022	526650

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

WT2205639-006

Sub-Matrix:**Soil** (Matrix: **Soil/Solid**)

Client sample ID: S-12581540-220614-JB-BH5-22-0.0-0.6

Client sampling date / time: 14-Jun-2022 10:50

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Physical Tests								
conductivity (1:2 leachate)	----	0.326	0.00500	mS/cm	E100-L	20-Jun-2022	21-Jun-2022	526293
moisture	----	8.36	0.25	%	E144	-	16-Jun-2022	527203
pH (1:2 soil:CaCl2-aq)	----	10.9	0.10	pH units	E108A	16-Jun-2022	17-Jun-2022	526568
Cyanides								
cyanide, weak acid dissociable	----	<0.050	0.050	mg/kg	E336A	16-Jun-2022	17-Jun-2022	526403
Saturated Paste Extractables								
calcium, soluble ion content	7440-70-2	21.8	0.50	mg/L	E484	20-Jun-2022	21-Jun-2022	526295
magnesium, soluble ion content	7439-95-4	12.0	0.50	mg/L	E484	20-Jun-2022	21-Jun-2022	526295
sodium, soluble ion content	17341-25-2	26.4	0.50	mg/L	E484	20-Jun-2022	21-Jun-2022	526295
sodium adsorption ratio [SAR]	----	1.13	0.10	-	E484	20-Jun-2022	21-Jun-2022	526295
Metals								
antimony	7440-36-0	0.25	0.10	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
arsenic	7440-38-2	97.4	0.10	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
barium	7440-39-3	55.5	0.50	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
beryllium	7440-41-7	0.19	0.10	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
boron	7440-42-8	11.1	5.0	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
boron, hot water soluble	7440-42-8	0.33	0.10	mg/kg	E487	20-Jun-2022	20-Jun-2022	526296
cadmium	7440-43-9	0.403	0.020	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
chromium	7440-47-3	127	0.50	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
cobalt	7440-48-4	3.39	0.10	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
copper	7440-50-8	21.8	0.50	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
lead	7439-92-1	22.4	0.50	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
mercury	7439-97-6	0.0081	0.0050	mg/kg	E510	20-Jun-2022	20-Jun-2022	526291
molybdenum	7439-98-7	1.79	0.10	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
nickel	7440-02-0	29.0	0.50	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
selenium	7782-49-2	<0.20	0.20	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
silver	7440-22-4	<0.10	0.50	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
thallium	7440-28-0	0.052	0.050	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
uranium	7440-61-1	0.548	0.050	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
vanadium	7440-62-2	309	0.20	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
zinc	7440-66-6	106	2.0	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
Speciated Metals								
chromium, hexavalent [Cr VI]	18540-29-9	2.46	0.10	mg/kg	E532	16-Jun-2022	17-Jun-2022	526326

Analytical Results

WT2205639-006

Sub-Matrix: **Soil**
(Matrix: **Soil/Solid**)

Client sample ID: S-12581540-220614-JB-BH5-22-0.0-0.6
Client sampling date / time: 14-Jun-2022 10:50

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
acetone	67-64-1	<0.50	0.50	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
benzene	71-43-2	<0.0050	0.0050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
bromodichloromethane	75-27-4	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
bromoform	75-25-2	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
bromomethane	74-83-9	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
carbon tetrachloride	56-23-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
chlorobenzene	108-90-7	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
chloroform	67-66-3	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dibromochloromethane	124-48-1	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dibromoethane, 1,2-	106-93-4	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichlorobenzene, 1,2-	95-50-1	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichlorobenzene, 1,3-	541-73-1	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichlorobenzene, 1,4-	106-46-7	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichlorodifluoromethane	75-71-8	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloroethane, 1,1-	75-34-3	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloroethane, 1,2-	107-06-2	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloroethylene, 1,1-	75-35-4	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloroethylene, cis-1,2-	156-59-2	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloroethylene, trans-1,2-	156-60-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloromethane	75-09-2	<0.045	0.045	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloropropane, 1,2-	78-87-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloropropylene, cis+trans-1,3-	542-75-6	<0.050	0.05	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloropropylene, cis-1,3-	10061-01-5	<0.030	0.030	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloropropylene, trans-1,3-	10061-02-6	<0.030	0.030	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
ethylbenzene	100-41-4	<0.015	0.015	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
hexane, n-	110-54-3	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
methyl ethyl ketone [MEK]	78-93-3	<0.50	0.50	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
methyl isobutyl ketone [MIBK]	108-10-1	<0.50	0.50	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
methyl-tert-butyl ether [MTBE]	1634-04-4	<0.040	0.040	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
styrene	100-42-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
tetrachloroethane, 1,1,1,2-	630-20-6	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
tetrachloroethane, 1,1,2,2-	79-34-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
tetrachloroethylene	127-18-4	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
toluene	108-88-3	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
trichloroethane, 1,1,1-	71-55-6	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
trichloroethane, 1,1,2-	79-00-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
trichloroethylene	79-01-6	<0.010	0.010	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
trichlorofluoromethane	75-69-4	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
vinyl chloride	75-01-4	<0.020	0.020	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
xylene, m+p-	179601-23-1	<0.030	0.030	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
xylene, o-	95-47-6	<0.030	0.030	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
xylenes, total	1330-20-7	<0.050	0.05	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
BTEX, total	----	<0.10	0.1	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
Volatile Organic Compounds Surrogates								
bromofluorobenzene, 4-	460-00-4	77.8	0.10	%	E611D	16-Jun-2022	16-Jun-2022	526635
difluorobenzene, 1,4-	540-36-3	93.3	0.10	%	E611D	16-Jun-2022	16-Jun-2022	526635
Hydrocarbons								
F1 (C6-C10)	----	<5.0	5.0	mg/kg	E581.F1	16-Jun-2022	16-Jun-2022	526634

Analytical Results

WT2205639-006

Sub-Matrix: **Soil**
(Matrix: **Soil/Solid**)

Client sample ID: S-12581540-220614-JB-BH5-22-0.0-0.6
Client sampling date / time: 14-Jun-2022 10:50

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Hydrocarbons								
F2 (C10-C16)	----	<10 DLM,	57	mg/kg	E601.SG-L	20-Jun-2022	22-Jun-2022	527742
F2-naphthalene	----	<25	57	mg/kg	EC600	-	18-Jun-2022	-
F3 (C16-C34)	----	1720	172	mg/kg	E601.SG-L	20-Jun-2022	22-Jun-2022	527742
F3-PAH	n/a	1720	172	mg/kg	EC600	-	18-Jun-2022	-
F4 (C34-C50)	----	4920	172	mg/kg	E601.SG-L	20-Jun-2022	22-Jun-2022	527742
F4G-sg	----	13700	250	mg/kg	E601.F4G-L	22-Jun-2022	22-Jun-2022	533665
F1-BTEX	----	<5.0	5	mg/kg	EC580	-	17-Jun-2022	-
hydrocarbons, total (C6-C50)	----	6640	250	mg/kg	EC581	-	17-Jun-2022	-
chromatogram to baseline at nC50	n/a	NO	-	-	E601.SG-L	20-Jun-2022	22-Jun-2022	527742
Hydrocarbons Surrogates								
bromobenzotrifluoride, 2- (F2-F4 surr)	392-83-6	80.1	7.2	%	E601.SG-L	20-Jun-2022	22-Jun-2022	527742
dichlorotoluene, 3,4-	97-75-0	72.8	1.0	%	E581.F1	16-Jun-2022	16-Jun-2022	526634
Polycyclic Aromatic Hydrocarbons								
acenaphthene	83-32-9	<0.050	0.050	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
acenaphthylene	208-96-8	<0.050	0.050	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
anthracene	120-12-7	<0.050	0.050	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
benz(a)anthracene	56-55-3	0.065	0.050	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
benzo(a)pyrene	50-32-8	0.147 R,	0.050	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
benzo(b+j)fluoranthene	n/a	0.158	0.050	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
benzo(g,h,i)perylene	191-24-2	0.212	0.050	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
benzo(k)fluoranthene	207-08-9	0.056 R,	0.050	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
chrysene	218-01-9	0.203 AI,	0.050	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
dibenz(a,h)anthracene	53-70-3	<0.050	0.050	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
fluoranthene	206-44-0	0.132	0.050	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
fluorene	86-73-7	<0.050	0.050	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
indeno(1,2,3-c,d)pyrene	193-39-5	0.114	0.050	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
methylnaphthalene, 1-	90-12-0	<0.030	0.030	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
methylnaphthalene, 1+2-	----	<0.050	0.05	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
methylnaphthalene, 2-	91-57-6	<0.030	0.030	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
naphthalene	91-20-3	<0.010 DLM,	0.020	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
phenanthrene	85-01-8	0.100	0.050	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
pyrene	129-00-0	0.175	0.050	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
Polycyclic Aromatic Hydrocarbons Surrogates								
fluorobiphenyl, 2-	321-60-8	60.0	0.1	%	E642F	16-Jun-2022	17-Jun-2022	526650
terphenyl-d14, p-	1718-51-0	90.7	0.1	%	E642F	16-Jun-2022	17-Jun-2022	526650

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

WT2205639-007

Sub-Matrix: **Soil**
(Matrix: **Soil/Solid**)

Client sample ID: S-12581540-220614-JB-BH6-22-0.0-0.6
Client sampling date / time: 14-Jun-2022 13:35

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Physical Tests								
conductivity (1:2 leachate)	----	0.503	0.00500	mS/cm	E100-L	20-Jun-2022	21-Jun-2022	526293
moisture	----	7.46	0.25	%	E144	-	16-Jun-2022	527203

Analytical Results

WT2205639-007

Sub-Matrix: **Soil**
(Matrix: **Soil/Solid**)

Client sample ID: S-12581540-220614-JB-BH6-22-0.0-0.6
Client sampling date / time: 14-Jun-2022 13:35

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Physical Tests								
pH (1:2 soil:CaCl2-aq)	----	10.7	0.10	pH units	E108A	16-Jun-2022	17-Jun-2022	526568
Cyanides								
cyanide, weak acid dissociable	----	<0.050	0.050	mg/kg	E336A	16-Jun-2022	17-Jun-2022	526403
Saturated Paste Extractables								
calcium, soluble ion content	7440-70-2	44.4	0.50	mg/L	E484	20-Jun-2022	21-Jun-2022	526295
magnesium, soluble ion content	7439-95-4	<0.50	0.50	mg/L	E484	20-Jun-2022	21-Jun-2022	526295
sodium, soluble ion content	17341-25-2	55.2	0.50	mg/L	E484	20-Jun-2022	21-Jun-2022	526295
sodium adsorption ratio [SAR]	----	2.28	0.10	-	E484	20-Jun-2022	21-Jun-2022	526295
Metals								
antimony	7440-36-0	0.52	0.10	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
arsenic	7440-38-2	5.19	0.10	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
barium	7440-39-3	69.0	0.50	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
beryllium	7440-41-7	0.30	0.10	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
boron	7440-42-8	12.7	5.0	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
boron, hot water soluble	7440-42-8	1.02	0.10	mg/kg	E487	20-Jun-2022	20-Jun-2022	526296
cadmium	7440-43-9	0.309	0.020	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
chromium	7440-47-3	76.9	0.50	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
cobalt	7440-48-4	5.16	0.10	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
copper	7440-50-8	40.2	0.50	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
lead	7439-92-1	30.2	0.50	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
mercury	7439-97-6	0.0146	0.0050	mg/kg	E510	20-Jun-2022	20-Jun-2022	526291
molybdenum	7439-98-7	2.14	0.10	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
nickel	7440-02-0	15.7	0.50	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
selenium	7782-49-2	<0.20	0.20	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
silver	7440-22-4	<0.10	0.50	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
thallium	7440-28-0	0.373	0.050	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
uranium	7440-61-1	0.478	0.050	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
vanadium	7440-62-2	69.4	0.20	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
zinc	7440-66-6	126	2.0	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
Speciated Metals								
chromium, hexavalent [Cr VI]	18540-29-9	1.96	0.10	mg/kg	E532	16-Jun-2022	17-Jun-2022	526326
Volatile Organic Compounds								
acetone	67-64-1	<0.50	0.50	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
benzene	71-43-2	<0.0050	0.0050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
bromodichloromethane	75-27-4	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
bromoform	75-25-2	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
bromomethane	74-83-9	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
carbon tetrachloride	56-23-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
chlorobenzene	108-90-7	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
chloroform	67-66-3	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dibromochloromethane	124-48-1	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dibromoethane, 1,2-	106-93-4	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichlorobenzene, 1,2-	95-50-1	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichlorobenzene, 1,3-	541-73-1	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichlorobenzene, 1,4-	106-46-7	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichlorodifluoromethane	75-71-8	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloroethane, 1,1-	75-34-3	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloroethane, 1,2-	107-06-2	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635

Analytical Results

WT2205639-007

Sub-Matrix: **Soil**
(Matrix: **Soil/Solid**)

Client sample ID: S-12581540-220614-JB-BH6-22-0.0-0.6
Client sampling date / time: 14-Jun-2022 13:35

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
dichloroethylene, 1,1-	75-35-4	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloroethylene, cis-1,2-	156-59-2	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloroethylene, trans-1,2-	156-60-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloromethane	75-09-2	<0.045	0.045	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloropropane, 1,2-	78-87-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloropropylene, cis+trans-1,3-	542-75-6	<0.050	0.05	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloropropylene, cis-1,3-	10061-01-5	<0.030	0.030	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloropropylene, trans-1,3-	10061-02-6	<0.030	0.030	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
ethylbenzene	100-41-4	<0.015	0.015	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
hexane, n-	110-54-3	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
methyl ethyl ketone [MEK]	78-93-3	<0.50	0.50	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
methyl isobutyl ketone [MIBK]	108-10-1	<0.50	0.50	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
methyl-tert-butyl ether [MTBE]	1634-04-4	<0.040	0.040	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
styrene	100-42-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
tetrachloroethane, 1,1,1,2-	630-20-6	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
tetrachloroethane, 1,1,2,2-	79-34-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
tetrachloroethylene	127-18-4	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
toluene	108-88-3	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
trichloroethane, 1,1,1-	71-55-6	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
trichloroethane, 1,1,2-	79-00-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
trichloroethylene	79-01-6	<0.010	0.010	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
trichlorofluoromethane	75-69-4	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
vinyl chloride	75-01-4	<0.020	0.020	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
xylene, m+p-	179601-23-1	<0.030	0.030	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
xylene, o-	95-47-6	<0.030	0.030	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
xylenes, total	1330-20-7	<0.050	0.05	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
BTEX, total	----	<0.10	0.1	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
Volatile Organic Compounds Surrogates								
bromofluorobenzene, 4-	460-00-4	75.1	0.10	%	E611D	16-Jun-2022	16-Jun-2022	526635
difluorobenzene, 1,4-	540-36-3	90.0	0.10	%	E611D	16-Jun-2022	16-Jun-2022	526635
Hydrocarbons								
F1 (C6-C10)	----	<5.0	5.0	mg/kg	E581.F1	16-Jun-2022	16-Jun-2022	526634
F2 (C10-C16)	----	<10 DLM,	63	mg/kg	E601.SG-L	20-Jun-2022	22-Jun-2022	527742
F3 (C16-C34)	----	1400	189	mg/kg	E601.SG-L	20-Jun-2022	22-Jun-2022	527742
F4 (C34-C50)	----	3580	189	mg/kg	E601.SG-L	20-Jun-2022	22-Jun-2022	527742
F4G-sg	----	11200	250	mg/kg	E601.F4G-L	22-Jun-2022	22-Jun-2022	533665
F1-BTEX	----	<5.0	5	mg/kg	EC580	-	17-Jun-2022	-
hydrocarbons, total (C6-C50)	----	4980	275	mg/kg	EC581	-	17-Jun-2022	-
chromatogram to baseline at nC50	n/a	NO	-	-	E601.SG-L	20-Jun-2022	22-Jun-2022	527742
Hydrocarbons Surrogates								
bromobenzotrifluoride, 2- (F2-F4 surr)	392-83-6	79.8	7.9	%	E601.SG-L	20-Jun-2022	22-Jun-2022	527742
dichlorotoluene, 3,4-	97-75-0	71.1	1.0	%	E581.F1	16-Jun-2022	16-Jun-2022	526634

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

WT2205639-008

Sub-Matrix: **Soil**
(Matrix: **Soil/Solid**)

Client sample ID: S-12581540-220614-JB-BH8-22-0.0-0.6
Client sampling date / time: 14-Jun-2022 12:10

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Physical Tests								
conductivity (1:2 leachate)	----	0.593	0.00500	mS/cm	E100-L	20-Jun-2022	21-Jun-2022	526293
moisture	----	8.06	0.25	%	E144	-	16-Jun-2022	527203
pH (1:2 soil:CaCl2-aq)	----	11.1	0.10	pH units	E108A	16-Jun-2022	17-Jun-2022	526568
Cyanides								
cyanide, weak acid dissociable	----	<0.050	0.050	mg/kg	E336A	16-Jun-2022	17-Jun-2022	526403
Saturated Paste Extractables								
calcium, soluble ion content	7440-70-2	83.9	0.50	mg/L	E484	20-Jun-2022	21-Jun-2022	526295
magnesium, soluble ion content	7439-95-4	<0.50	0.50	mg/L	E484	20-Jun-2022	21-Jun-2022	526295
sodium, soluble ion content	17341-25-2	25.5	0.50	mg/L	E484	20-Jun-2022	21-Jun-2022	526295
sodium adsorption ratio [SAR]	----	0.77	0.10	-	E484	20-Jun-2022	21-Jun-2022	526295
Metals								
antimony	7440-36-0	0.73	0.10	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
arsenic	7440-38-2	6.86	0.10	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
barium	7440-39-3	62.0	0.50	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
beryllium	7440-41-7	0.30	0.10	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
boron	7440-42-8	11.8	5.0	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
boron, hot water soluble	7440-42-8	0.47	0.10	mg/kg	E487	20-Jun-2022	20-Jun-2022	526296
cadmium	7440-43-9	0.891	0.020	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
chromium	7440-47-3	82.4	0.50	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
cobalt	7440-48-4	4.99	0.10	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
copper	7440-50-8	39.6	0.50	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
lead	7439-92-1	79.5	0.50	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
mercury	7439-97-6	0.0339	0.0050	mg/kg	E510	20-Jun-2022	20-Jun-2022	526291
molybdenum	7439-98-7	2.40	0.10	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
nickel	7440-02-0	18.3	0.50	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
selenium	7782-49-2	<0.20	0.20	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
silver	7440-22-4	<0.10	0.50	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
thallium	7440-28-0	0.070	0.050	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
uranium	7440-61-1	0.588	0.050	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
vanadium	7440-62-2	59.9	0.20	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
zinc	7440-66-6	748	2.0	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
Speciated Metals								
chromium, hexavalent [Cr VI]	18540-29-9	1.48	0.10	mg/kg	E532	16-Jun-2022	17-Jun-2022	526326
Volatile Organic Compounds								
acetone	67-64-1	<0.50	0.50	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
benzene	71-43-2	<0.0050	0.0050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
bromodichloromethane	75-27-4	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
bromoform	75-25-2	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
bromomethane	74-83-9	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
carbon tetrachloride	56-23-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
chlorobenzene	108-90-7	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
chloroform	67-66-3	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dibromochloromethane	124-48-1	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dibromoethane, 1,2-	106-93-4	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichlorobenzene, 1,2-	95-50-1	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichlorobenzene, 1,3-	541-73-1	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichlorobenzene, 1,4-	106-46-7	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichlorodifluoromethane	75-71-8	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635

Analytical Results

WT2205639-008

Sub-Matrix: **Soil**
(Matrix: **Soil/Solid**)

Client sample ID: S-12581540-220614-JB-BH8-22-0.0-0.6
Client sampling date / time: 14-Jun-2022 12:10

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
dichloroethane, 1,1-	75-34-3	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloroethane, 1,2-	107-06-2	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloroethylene, 1,1-	75-35-4	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloroethylene, cis-1,2-	156-59-2	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloroethylene, trans-1,2-	156-60-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloromethane	75-09-2	<0.045	0.045	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloropropane, 1,2-	78-87-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloropropylene, cis+trans-1,3-	542-75-6	<0.050	0.05	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloropropylene, cis-1,3-	10061-01-5	<0.030	0.030	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloropropylene, trans-1,3-	10061-02-6	<0.030	0.030	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
ethylbenzene	100-41-4	<0.015	0.015	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
hexane, n-	110-54-3	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
methyl ethyl ketone [MEK]	78-93-3	<0.50	0.50	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
methyl isobutyl ketone [MIBK]	108-10-1	<0.50	0.50	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
methyl-tert-butyl ether [MTBE]	1634-04-4	<0.040	0.040	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
styrene	100-42-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
tetrachloroethane, 1,1,1,2-	630-20-6	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
tetrachloroethane, 1,1,2,2-	79-34-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
tetrachloroethylene	127-18-4	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
toluene	108-88-3	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
trichloroethane, 1,1,1-	71-55-6	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
trichloroethane, 1,1,2-	79-00-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
trichloroethylene	79-01-6	<0.010	0.010	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
trichlorofluoromethane	75-69-4	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
vinyl chloride	75-01-4	<0.020	0.020	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
xylene, m+p-	179601-23-1	<0.030	0.030	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
xylene, o-	95-47-6	<0.030	0.030	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
xylenes, total	1330-20-7	<0.050	0.05	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
BTEX, total	----	<0.10	0.1	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
Volatile Organic Compounds Surrogates								
bromofluorobenzene, 4-	460-00-4	82.4	0.10	%	E611D	16-Jun-2022	16-Jun-2022	526635
difluorobenzene, 1,4-	540-36-3	97.9	0.10	%	E611D	16-Jun-2022	16-Jun-2022	526635
Hydrocarbons								
F1 (C6-C10)	----	<5.0	5.0	mg/kg	E581.F1	16-Jun-2022	16-Jun-2022	526634
F2 (C10-C16)	----	80	62	mg/kg	E601.SG-L	20-Jun-2022	22-Jun-2022	527742
F2-naphthalene	----	80	62	mg/kg	EC600	-	18-Jun-2022	-
F3 (C16-C34)	----	1900	186	mg/kg	E601.SG-L	20-Jun-2022	22-Jun-2022	527742
F3-PAH	n/a	1890	186	mg/kg	EC600	-	18-Jun-2022	-
F4 (C34-C50)	----	3580	186	mg/kg	E601.SG-L	20-Jun-2022	22-Jun-2022	527742
F4G-sg	----	11200	250	mg/kg	E601.F4G-L	22-Jun-2022	22-Jun-2022	533665
F1-BTEX	----	<5.0	5	mg/kg	EC580	-	17-Jun-2022	-
hydrocarbons, total (C6-C50)	----	5560	270	mg/kg	EC581	-	17-Jun-2022	-
chromatogram to baseline at nC50	n/a	NO	-	-	E601.SG-L	20-Jun-2022	22-Jun-2022	527742
Hydrocarbons Surrogates								
bromobenzotrifluoride, 2- (F2-F4 surr)	392-83-6	77.6	7.7	%	E601.SG-L	20-Jun-2022	22-Jun-2022	527742
dichlorotoluene, 3,4-	97-75-0	73.7	1.0	%	E581.F1	16-Jun-2022	16-Jun-2022	526634
Polycyclic Aromatic Hydrocarbons								
acenaphthene	83-32-9	0.085	0.050	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650

Analytical Results

WT2205639-008

Sub-Matrix:**Soil** *Client sample ID:* S-12581540-220614-JB-BH8-22-0.0-0.6

(Matrix: **Soil/Solid**) *Client sampling date / time:* 14-Jun-2022 12:10

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons								
acenaphthylene	208-96-8	<0.050	0.050	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
anthracene	120-12-7	0.243	0.050	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
benz(a)anthracene	56-55-3	0.774	0.050	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
benzo(a)pyrene	50-32-8	0.784	0.050	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
benzo(b+j)fluoranthene	n/a	0.930	0.050	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
benzo(g,h,i)perylene	191-24-2	0.533	0.050	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
benzo(k)fluoranthene	207-08-9	0.406	0.050	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
chrysene	218-01-9	0.936	0.050	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
dibenz(a,h)anthracene	53-70-3	0.153	0.050	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
fluoranthene	206-44-0	1.89	0.050	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
fluorene	86-73-7	0.087	0.050	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
indeno(1,2,3-c,d)pyrene	193-39-5	0.478	0.050	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
methylnaphthalene, 1-	90-12-0	0.082	0.030	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
methylnaphthalene, 1+2-	----	0.148	0.05	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
methylnaphthalene, 2-	91-57-6	0.066	0.030	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
naphthalene	91-20-3	0.025	0.020	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
phenanthrene	85-01-8	1.04	0.050	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
pyrene	129-00-0	1.54	0.050	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
Polycyclic Aromatic Hydrocarbons Surrogates								
fluorobiphenyl, 2-	321-60-8	80.1	0.1	%	E642F	16-Jun-2022	17-Jun-2022	526650
terphenyl-d14, p-	1718-51-0	82.2	0.1	%	E642F	16-Jun-2022	17-Jun-2022	526650

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

WT2205639-009

Sub-Matrix:**Soil** *Client sample ID:* S-12581540-220614-JB-BH8-22-0.0-0.6X

(Matrix: **Soil/Solid**) *Client sampling date / time:* 14-Jun-2022 12:10

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Physical Tests								
moisture	----	7.51	0.25	%	E144	-	16-Jun-2022	527203
Polycyclic Aromatic Hydrocarbons								
acenaphthene	83-32-9	0.086	0.050	mg/kg	E642F	16-Jun-2022	18-Jun-2022	526650
acenaphthylene	208-96-8	<0.050	0.050	mg/kg	E642F	16-Jun-2022	18-Jun-2022	526650
anthracene	120-12-7	0.292	0.050	mg/kg	E642F	16-Jun-2022	18-Jun-2022	526650
benz(a)anthracene	56-55-3	1.09	0.050	mg/kg	E642F	16-Jun-2022	18-Jun-2022	526650
benzo(a)pyrene	50-32-8	1.14	0.050	mg/kg	E642F	16-Jun-2022	18-Jun-2022	526650
benzo(b+j)fluoranthene	n/a	1.44	0.050	mg/kg	E642F	16-Jun-2022	18-Jun-2022	526650
benzo(g,h,i)perylene	191-24-2	0.676	0.050	mg/kg	E642F	16-Jun-2022	18-Jun-2022	526650
benzo(k)fluoranthene	207-08-9	0.498	0.050	mg/kg	E642F	16-Jun-2022	18-Jun-2022	526650
chrysene	218-01-9	1.24	0.050	mg/kg	E642F	16-Jun-2022	18-Jun-2022	526650
dibenz(a,h)anthracene	53-70-3	0.190	0.050	mg/kg	E642F	16-Jun-2022	18-Jun-2022	526650
fluoranthene	206-44-0	2.63	0.050	mg/kg	E642F	16-Jun-2022	18-Jun-2022	526650
fluorene	86-73-7	0.092	0.050	mg/kg	E642F	16-Jun-2022	18-Jun-2022	526650
indeno(1,2,3-c,d)pyrene	193-39-5	0.612	0.050	mg/kg	E642F	16-Jun-2022	18-Jun-2022	526650
methylnaphthalene, 1-	90-12-0	0.081	0.030	mg/kg	E642F	16-Jun-2022	18-Jun-2022	526650

Analytical Results

WT2205639-009

Sub-Matrix:**Soil** (Matrix: **Soil/Solid**)

Client sample ID: S-12581540-220614-JB-BH8-22-0.0-0.6X

Client sampling date / time: 14-Jun-2022 12:10

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons								
methylnaphthalene, 1+2-	----	0.144	0.05	mg/kg	E642F	16-Jun-2022	18-Jun-2022	526650
methylnaphthalene, 2-	91-57-6	0.063	0.030	mg/kg	E642F	16-Jun-2022	18-Jun-2022	526650
naphthalene	91-20-3	0.028	0.020	mg/kg	E642F	16-Jun-2022	18-Jun-2022	526650
phenanthrene	85-01-8	1.36	0.050	mg/kg	E642F	16-Jun-2022	18-Jun-2022	526650
pyrene	129-00-0	2.09	0.050	mg/kg	E642F	16-Jun-2022	18-Jun-2022	526650
Polycyclic Aromatic Hydrocarbons Surrogates								
fluorobiphenyl, 2-	321-60-8	74.9	0.1	%	E642F	16-Jun-2022	18-Jun-2022	526650
terphenyl-d14, p-	1718-51-0	72.7	0.1	%	E642F	16-Jun-2022	18-Jun-2022	526650

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

WT2205639-010

Sub-Matrix:**Soil** (Matrix: **Soil/Solid**)

Client sample ID: S-12581540-220614-JB-BH9-22-0.0-0.6

Client sampling date / time: 14-Jun-2022 14:40

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Physical Tests								
conductivity (1:2 leachate)	----	0.642	0.00500	mS/cm	E100-L	20-Jun-2022	21-Jun-2022	526293
moisture	----	7.20	0.25	%	E144	-	16-Jun-2022	527203
pH (1:2 soil:CaCl2-aq)	----	8.53	0.10	pH units	E108A	16-Jun-2022	17-Jun-2022	526568
Cyanides								
cyanide, weak acid dissociable	----	<0.050	0.050	mg/kg	E336A	16-Jun-2022	17-Jun-2022	526403
Saturated Paste Extractables								
calcium, soluble ion content	7440-70-2	11.5	0.50	mg/L	E484	20-Jun-2022	21-Jun-2022	526295
magnesium, soluble ion content	7439-95-4	6.60	0.50	mg/L	E484	20-Jun-2022	21-Jun-2022	526295
sodium, soluble ion content	17341-25-2	111	0.50	mg/L	E484	20-Jun-2022	21-Jun-2022	526295
sodium adsorption ratio [SAR]	----	6.46	0.10	-	E484	20-Jun-2022	21-Jun-2022	526295
Metals								
antimony	7440-36-0	38.6	0.10	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
arsenic	7440-38-2	26.5	0.10	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
barium	7440-39-3	90.8	0.50	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
beryllium	7440-41-7	0.31	0.10	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
boron	7440-42-8	9.7	5.0	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
boron, hot water soluble	7440-42-8	0.97	0.10	mg/kg	E487	20-Jun-2022	20-Jun-2022	526296
cadmium	7440-43-9	3.99	0.020	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
chromium	7440-47-3	50.4	0.50	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
cobalt	7440-48-4	21.2	0.10	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
copper	7440-50-8	26.3	0.50	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
lead	7439-92-1	53.2	0.50	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
mercury	7439-97-6	0.310	0.0050	mg/kg	E510	20-Jun-2022	20-Jun-2022	526291
molybdenum	7439-98-7	2.21	0.10	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
nickel	7440-02-0	50.1	0.50	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
selenium	7782-49-2	0.78	0.20	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
silver	7440-22-4	<0.10	0.50	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
thallium	7440-28-0	0.083	0.050	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
uranium	7440-61-1	0.491	0.050	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292

Analytical Results

WT2205639-010

Sub-Matrix: **Soil**
(Matrix: **Soil/Solid**)

Client sample ID: S-12581540-220614-JB-BH9-22-0.0-0.6
Client sampling date / time: 14-Jun-2022 14:40

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Metals								
vanadium	7440-62-2	71.3	0.20	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
zinc	7440-66-6	202	2.0	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
Speciated Metals								
chromium, hexavalent [Cr VI]	18540-29-9	<0.10	0.10	mg/kg	E532	16-Jun-2022	17-Jun-2022	526326
Volatile Organic Compounds								
acetone	67-64-1	<0.50	0.50	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
benzene	71-43-2	0.0794	0.0050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
bromodichloromethane	75-27-4	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
bromoform	75-25-2	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
bromomethane	74-83-9	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
carbon tetrachloride	56-23-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
chlorobenzene	108-90-7	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
chloroform	67-66-3	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dibromochloromethane	124-48-1	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dibromoethane, 1,2-	106-93-4	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichlorobenzene, 1,2-	95-50-1	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichlorobenzene, 1,3-	541-73-1	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichlorobenzene, 1,4-	106-46-7	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichlorodifluoromethane	75-71-8	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloroethane, 1,1-	75-34-3	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloroethane, 1,2-	107-06-2	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloroethylene, 1,1-	75-35-4	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloroethylene, cis-1,2-	156-59-2	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloroethylene, trans-1,2-	156-60-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloromethane	75-09-2	<0.045	0.045	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloropropane, 1,2-	78-87-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloropropylene, cis+trans-1,3-	542-75-6	<0.050	0.05	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloropropylene, cis-1,3-	10061-01-5	<0.030	0.030	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloropropylene, trans-1,3-	10061-02-6	<0.030	0.030	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
ethylbenzene	100-41-4	0.408	0.015	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
hexane, n-	110-54-3	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
methyl ethyl ketone [MEK]	78-93-3	<0.50	0.50	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
methyl isobutyl ketone [MIBK]	108-10-1	<0.50	0.50	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
methyl-tert-butyl ether [MTBE]	1634-04-4	<0.040	0.040	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
styrene	100-42-5	0.125	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
tetrachloroethane, 1,1,1,2-	630-20-6	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
tetrachloroethane, 1,1,2,2-	79-34-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
tetrachloroethylene	127-18-4	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
toluene	108-88-3	0.393	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
trichloroethane, 1,1,1-	71-55-6	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
trichloroethane, 1,1,2-	79-00-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
trichloroethylene	79-01-6	<0.010	0.010	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
trichlorofluoromethane	75-69-4	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
vinyl chloride	75-01-4	<0.020	0.020	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
xylene, m+p-	179601-23-1	0.365	0.030	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
xylene, o-	95-47-6	0.210	0.030	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
xylenes, total	1330-20-7	0.575	0.05	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
BTEX, total	----	1.46	0.1	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635

Analytical Results

WT2205639-010

Sub-Matrix:**Soil** (Matrix: **Soil/Solid**)

Client sample ID: S-12581540-220614-JB-BH9-22-0.0-0.6

Client sampling date / time: 14-Jun-2022 14:40

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds Surrogates								
bromofluorobenzene, 4-	460-00-4	87.2	0.10	%	E611D	16-Jun-2022	16-Jun-2022	526635
difluorobenzene, 1,4-	540-36-3	86.1	0.10	%	E611D	16-Jun-2022	16-Jun-2022	526635
Hydrocarbons								
F1 (C6-C10)	----	18.4	5.0	mg/kg	E581.F1	16-Jun-2022	16-Jun-2022	526634
F2 (C10-C16)	----	<10 DLM,	58	mg/kg	E601.SG-L	20-Jun-2022	22-Jun-2022	527742
F3 (C16-C34)	----	1120	176	mg/kg	E601.SG-L	20-Jun-2022	22-Jun-2022	527742
F4 (C34-C50)	----	2670	176	mg/kg	E601.SG-L	20-Jun-2022	22-Jun-2022	527742
F4G-sg	----	8110	250	mg/kg	E601.F4G-L	22-Jun-2022	22-Jun-2022	533665
F1-BTEX	----	16.9	5	mg/kg	EC580	-	17-Jun-2022	-
hydrocarbons, total (C6-C50)	----	3810	256	mg/kg	EC581	-	17-Jun-2022	-
chromatogram to baseline at nC50	n/a	NO	-	-	E601.SG-L	20-Jun-2022	22-Jun-2022	527742
Hydrocarbons Surrogates								
bromobenzotrifluoride, 2- (F2-F4 surr)	392-83-6	81.8	7.3	%	E601.SG-L	20-Jun-2022	22-Jun-2022	527742
dichlorotoluene, 3,4-	97-75-0	70.5	1.0	%	E581.F1	16-Jun-2022	16-Jun-2022	526634

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

WT2205639-011

Sub-Matrix:**Soil** (Matrix: **Soil/Solid**)

Client sample ID: S-12581540-220614-JB-BH9-22-0.0-0.6X

Client sampling date / time: 14-Jun-2022 14:40

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Physical Tests								
moisture	----	9.01	0.25	%	E144	-	16-Jun-2022	527203
Volatile Organic Compounds								
acetone	67-64-1	<0.50	0.50	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
benzene	71-43-2	0.0164	0.0050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
bromodichloromethane	75-27-4	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
bromoform	75-25-2	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
bromomethane	74-83-9	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
carbon tetrachloride	56-23-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
chlorobenzene	108-90-7	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
chloroform	67-66-3	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dibromochloromethane	124-48-1	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dibromoethane, 1,2-	106-93-4	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichlorobenzene, 1,2-	95-50-1	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichlorobenzene, 1,3-	541-73-1	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichlorobenzene, 1,4-	106-46-7	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichlorodifluoromethane	75-71-8	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloroethane, 1,1-	75-34-3	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloroethane, 1,2-	107-06-2	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloroethylene, 1,1-	75-35-4	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloroethylene, cis-1,2-	156-59-2	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloroethylene, trans-1,2-	156-60-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloromethane	75-09-2	<0.045	0.045	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloropropane, 1,2-	78-87-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635

Analytical Results

WT2205639-011

Sub-Matrix: **Soil** (Matrix: **Soil/Solid**)

Client sample ID: S-12581540-220614-JB-BH9-22-0.0-0.6X

Client sampling date / time: 14-Jun-2022 14:40

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
dichloropropylene, cis+trans-1,3-	542-75-6	<0.050	0.05	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloropropylene, cis-1,3-	10061-01-5	<0.030	0.030	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloropropylene, trans-1,3-	10061-02-6	<0.030	0.030	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
ethylbenzene	100-41-4	0.066	0.015	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
hexane, n-	110-54-3	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
methyl ethyl ketone [MEK]	78-93-3	<0.50	0.50	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
methyl isobutyl ketone [MIBK]	108-10-1	<0.50	0.50	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
methyl-tert-butyl ether [MTBE]	1634-04-4	<0.040	0.040	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
styrene	100-42-5	0.115	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
tetrachloroethane, 1,1,1,2-	630-20-6	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
tetrachloroethane, 1,1,2,2-	79-34-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
tetrachloroethylene	127-18-4	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
toluene	108-88-3	0.083	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
trichloroethane, 1,1,1-	71-55-6	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
trichloroethane, 1,1,2-	79-00-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
trichloroethylene	79-01-6	<0.010	0.010	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
trichlorofluoromethane	75-69-4	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
vinyl chloride	75-01-4	<0.020	0.020	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
xylene, m+p-	179601-23-1	0.052	0.030	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
xylene, o-	95-47-6	0.038	0.030	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
xylenes, total	1330-20-7	0.090	0.05	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
BTEX, total	----	0.26	0.1	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
Volatile Organic Compounds Surrogates								
bromofluorobenzene, 4-	460-00-4	89.0	0.10	%	E611D	16-Jun-2022	16-Jun-2022	526635
difluorobenzene, 1,4-	540-36-3	87.1	0.10	%	E611D	16-Jun-2022	16-Jun-2022	526635
Hydrocarbons								
F1 (C6-C10)	----	9.1	5.0	mg/kg	E581.F1	16-Jun-2022	16-Jun-2022	526634
F2 (C10-C16)	----	<10	30	mg/kg	E601.SG-L	21-Jun-2022	23-Jun-2022	531387
F3 (C16-C34)	----	1110 DLM,	90	mg/kg	E601.SG-L	21-Jun-2022	23-Jun-2022	531387
F4 (C34-C50)	----	2490 DLM,	90	mg/kg	E601.SG-L	21-Jun-2022	23-Jun-2022	531387
F4G-sg	----	6870	250	mg/kg	E601.F4G-L	23-Jun-2022	23-Jun-2022	535526
F1-BTEX	----	8.8	5	mg/kg	EC580	-	17-Jun-2022	-
hydrocarbons, total (C6-C50)	----	3610	131	mg/kg	EC581	-	17-Jun-2022	-
chromatogram to baseline at nC50	n/a	NO	-	-	E601.SG-L	21-Jun-2022	23-Jun-2022	531387
Hydrocarbons Surrogates								
bromobenzotrifluoride, 2- (F2-F4 surr)	392-83-6	90.4	3.7	%	E601.SG-L	21-Jun-2022	23-Jun-2022	531387
dichlorotoluene, 3,4-	97-75-0	75.3	1.0	%	E581.F1	16-Jun-2022	16-Jun-2022	526634

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

WT2205639-012

Sub-Matrix: **Soil** (Matrix: **Soil/Solid**)

Client sample ID: S-12581540-220614-JB-TRIP BLANK

Client sampling date / time: 14-Jun-2022 18:00

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Physical Tests								

Analytical Results

WT2205639-012

Sub-Matrix: **Soil**
(Matrix: **Soil/Solid**)

Client sample ID: S-12581540-220614-JB-TRIP BLANK
Client sampling date / time: 14-Jun-2022 18:00

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Physical Tests								
moisture	----	<0.25	0.25	%	E144	-	16-Jun-2022	527203
Volatile Organic Compounds								
acetone	67-64-1	<0.50	0.50	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
benzene	71-43-2	<0.0050	0.0050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
bromodichloromethane	75-27-4	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
bromoform	75-25-2	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
bromomethane	74-83-9	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
carbon tetrachloride	56-23-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
chlorobenzene	108-90-7	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
chloroform	67-66-3	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dibromochloromethane	124-48-1	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dibromoethane, 1,2-	106-93-4	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichlorobenzene, 1,2-	95-50-1	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichlorobenzene, 1,3-	541-73-1	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichlorobenzene, 1,4-	106-46-7	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichlorodifluoromethane	75-71-8	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloroethane, 1,1-	75-34-3	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloroethane, 1,2-	107-06-2	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloroethylene, 1,1-	75-35-4	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloroethylene, cis-1,2-	156-59-2	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloroethylene, trans-1,2-	156-60-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloromethane	75-09-2	<0.045	0.045	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloropropane, 1,2-	78-87-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloropropylene, cis+trans-1,3-	542-75-6	<0.050	0.05	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloropropylene, cis-1,3-	10061-01-5	<0.030	0.030	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloropropylene, trans-1,3-	10061-02-6	<0.030	0.030	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
ethylbenzene	100-41-4	<0.015	0.015	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
hexane, n-	110-54-3	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
methyl ethyl ketone [MEK]	78-93-3	<0.50	0.50	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
methyl isobutyl ketone [MIBK]	108-10-1	<0.50	0.50	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
methyl-tert-butyl ether [MTBE]	1634-04-4	<0.040	0.040	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
styrene	100-42-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
tetrachloroethane, 1,1,1,2-	630-20-6	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
tetrachloroethane, 1,1,2,2-	79-34-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
tetrachloroethylene	127-18-4	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
toluene	108-88-3	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
trichloroethane, 1,1,1-	71-55-6	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
trichloroethane, 1,1,2-	79-00-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
trichloroethylene	79-01-6	<0.010	0.010	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
trichlorofluoromethane	75-69-4	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
vinyl chloride	75-01-4	<0.020	0.020	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
xylene, m+p-	179601-23-1	<0.030	0.030	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
xylene, o-	95-47-6	<0.030	0.030	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
xylenes, total	1330-20-7	<0.050	0.05	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
BTEX, total	----	<0.10	0.1	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
Volatile Organic Compounds Surrogates								
bromofluorobenzene, 4-	460-00-4	89.8	0.10	%	E611D	16-Jun-2022	16-Jun-2022	526635
difluorobenzene, 1,4-	540-36-3	101	0.10	%	E611D	16-Jun-2022	16-Jun-2022	526635

Analytical Results

WT2205639-012

Sub-Matrix:**Soil** (Matrix: **Soil/Solid**)

Client sample ID: S-12581540-220614-JB-TRIP BLANK

Client sampling date / time: 14-Jun-2022 18:00

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Hydrocarbons								
F1 (C6-C10)	----	<5.0	5.0	mg/kg	E581.F1	16-Jun-2022	16-Jun-2022	526634
F1-BTEX	----	<5.0	5	mg/kg	EC580	-	17-Jun-2022	-
Hydrocarbons Surrogates								
dichlorotoluene, 3,4-	97-75-0	110	1.0	%	E581.F1	16-Jun-2022	16-Jun-2022	526634

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

WT2205639-013

Sub-Matrix:**Soil** (Matrix: **Soil/Solid**)

Client sample ID: S-12581540-220610-JB-BH14-22-0.8-1.4

Client sampling date / time: 10-Jun-2022 11:40

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Physical Tests								
moisture	----	9.84	0.25	%	E144	-	16-Jun-2022	527203
Volatile Organic Compounds								
acetone	67-64-1	<0.50	0.50	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
benzene	71-43-2	<0.0050	0.0050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
bromodichloromethane	75-27-4	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
bromoform	75-25-2	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
bromomethane	74-83-9	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
carbon tetrachloride	56-23-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
chlorobenzene	108-90-7	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
chloroform	67-66-3	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dibromochloromethane	124-48-1	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dibromoethane, 1,2-	106-93-4	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichlorobenzene, 1,2-	95-50-1	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichlorobenzene, 1,3-	541-73-1	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichlorobenzene, 1,4-	106-46-7	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichlorodifluoromethane	75-71-8	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloroethane, 1,1-	75-34-3	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloroethane, 1,2-	107-06-2	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloroethylene, 1,1-	75-35-4	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloroethylene, cis-1,2-	156-59-2	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloroethylene, trans-1,2-	156-60-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloromethane	75-09-2	<0.045	0.045	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloropropane, 1,2-	78-87-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloropropylene, cis+trans-1,3-	542-75-6	<0.050	0.05	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloropropylene, cis-1,3-	10061-01-5	<0.030	0.030	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloropropylene, trans-1,3-	10061-02-6	<0.030	0.030	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
ethylbenzene	100-41-4	<0.015	0.015	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
hexane, n-	110-54-3	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
methyl ethyl ketone [MEK]	78-93-3	<0.50	0.50	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
methyl isobutyl ketone [MIBK]	108-10-1	<0.50	0.50	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
methyl-tert-butyl ether [MTBE]	1634-04-4	<0.040	0.040	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
styrene	100-42-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
tetrachloroethane, 1,1,1,2-	630-20-6	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635

Analytical Results

WT2205639-013

Sub-Matrix:**Soil** (Matrix: **Soil/Solid**)

Client sample ID: S-12581540-220610-JB-BH14-22-0.8-1.4

Client sampling date / time: 10-Jun-2022 11:40

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
tetrachloroethane, 1,1,2,2-	79-34-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
tetrachloroethylene	127-18-4	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
toluene	108-88-3	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
trichloroethane, 1,1,1-	71-55-6	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
trichloroethane, 1,1,2-	79-00-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
trichloroethylene	79-01-6	<0.010	0.010	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
trichlorofluoromethane	75-69-4	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
vinyl chloride	75-01-4	<0.020	0.020	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
xylene, m+p-	179601-23-1	<0.030	0.030	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
xylene, o-	95-47-6	<0.030	0.030	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
xylenes, total	1330-20-7	<0.050	0.05	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
BTEX, total	----	<0.10	0.1	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
Volatile Organic Compounds Surrogates								
bromofluorobenzene, 4-	460-00-4	81.3	0.10	%	E611D	16-Jun-2022	16-Jun-2022	526635
difluorobenzene, 1,4-	540-36-3	93.5	0.10	%	E611D	16-Jun-2022	16-Jun-2022	526635
Hydrocarbons								
F1 (C6-C10)	----	<5.0	5.0	mg/kg	E581.F1	16-Jun-2022	16-Jun-2022	526634
F2 (C10-C16)	----	<10	10	mg/kg	E601.SG-L	20-Jun-2022	22-Jun-2022	527742
F3 (C16-C34)	----	<50	50	mg/kg	E601.SG-L	20-Jun-2022	22-Jun-2022	527742
F4 (C34-C50)	----	<50	50	mg/kg	E601.SG-L	20-Jun-2022	22-Jun-2022	527742
F1-BTEX	----	<5.0	5	mg/kg	EC580	-	17-Jun-2022	-
hydrocarbons, total (C6-C50)	----	<80	80	mg/kg	EC581	-	17-Jun-2022	-
chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG-L	20-Jun-2022	22-Jun-2022	527742
Hydrocarbons Surrogates								
bromobenzotrifluoride, 2- (F2-F4 surr)	392-83-6	90.7	1.0	%	E601.SG-L	20-Jun-2022	22-Jun-2022	527742
dichlorotoluene, 3,4-	97-75-0	110	1.0	%	E581.F1	16-Jun-2022	16-Jun-2022	526634

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

WT2205639-014

Sub-Matrix:**Soil** (Matrix: **Soil/Solid**)

Client sample ID: S-12581540-220610-JB-BH12-22-0.05-0.6

Client sampling date / time: 10-Jun-2022 14:30

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Physical Tests								
moisture	----	10.7	0.25	%	E144	-	17-Jun-2022	527457
Volatile Organic Compounds								
acetone	67-64-1	<0.50	0.50	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
benzene	71-43-2	<0.0050	0.0050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
bromodichloromethane	75-27-4	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
bromoform	75-25-2	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
bromomethane	74-83-9	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
carbon tetrachloride	56-23-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
chlorobenzene	108-90-7	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
chloroform	67-66-3	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dibromochloromethane	124-48-1	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635

Analytical Results

WT2205639-014

Sub-Matrix: **Soil**
(Matrix: **Soil/Solid**)

Client sample ID: S-12581540-220610-JB-BH12-22-0.05-0.6
Client sampling date / time: 10-Jun-2022 14:30

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
dibromoethane, 1,2-	106-93-4	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichlorobenzene, 1,2-	95-50-1	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichlorobenzene, 1,3-	541-73-1	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichlorobenzene, 1,4-	106-46-7	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichlorodifluoromethane	75-71-8	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloroethane, 1,1-	75-34-3	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloroethane, 1,2-	107-06-2	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloroethylene, 1,1-	75-35-4	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloroethylene, cis-1,2-	156-59-2	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloroethylene, trans-1,2-	156-60-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloromethane	75-09-2	<0.045	0.045	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloropropane, 1,2-	78-87-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloropropylene, cis+trans-1,3-	542-75-6	<0.050	0.05	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloropropylene, cis-1,3-	10061-01-5	<0.030	0.030	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloropropylene, trans-1,3-	10061-02-6	<0.030	0.030	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
ethylbenzene	100-41-4	<0.015	0.015	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
hexane, n-	110-54-3	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
methyl ethyl ketone [MEK]	78-93-3	<0.50	0.50	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
methyl isobutyl ketone [MIBK]	108-10-1	<0.50	0.50	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
methyl-tert-butyl ether [MTBE]	1634-04-4	<0.040	0.040	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
styrene	100-42-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
tetrachloroethane, 1,1,1,2-	630-20-6	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
tetrachloroethane, 1,1,2,2-	79-34-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
tetrachloroethylene	127-18-4	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
toluene	108-88-3	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
trichloroethane, 1,1,1-	71-55-6	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
trichloroethane, 1,1,2-	79-00-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
trichloroethylene	79-01-6	<0.010	0.010	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
trichlorofluoromethane	75-69-4	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
vinyl chloride	75-01-4	<0.020	0.020	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
xylene, m+p-	179601-23-1	<0.030	0.030	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
xylene, o-	95-47-6	<0.030	0.030	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
xylenes, total	1330-20-7	<0.050	0.05	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
BTEX, total	----	<0.10	0.1	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
Volatile Organic Compounds Surrogates								
bromofluorobenzene, 4-	460-00-4	72.0	0.10	%	E611D	16-Jun-2022	16-Jun-2022	526635
difluorobenzene, 1,4-	540-36-3	85.3	0.10	%	E611D	16-Jun-2022	16-Jun-2022	526635
Hydrocarbons								
F1 (C6-C10)	----	<5.0	5.0	mg/kg	E581.F1	16-Jun-2022	16-Jun-2022	526634
F2 (C10-C16)	----	<10	10	mg/kg	E601.SG-L	20-Jun-2022	22-Jun-2022	527742
F3 (C16-C34)	----	<50	50	mg/kg	E601.SG-L	20-Jun-2022	22-Jun-2022	527742
F4 (C34-C50)	----	<50	50	mg/kg	E601.SG-L	20-Jun-2022	22-Jun-2022	527742
F1-BTEX	----	<5.0	5	mg/kg	EC580	-	20-Jun-2022	-
hydrocarbons, total (C6-C50)	----	<80	80	mg/kg	EC581	-	20-Jun-2022	-
chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG-L	20-Jun-2022	22-Jun-2022	527742
Hydrocarbons Surrogates								
bromobenzotrifluoride, 2- (F2-F4 surr)	392-83-6	91.7	1.0	%	E601.SG-L	20-Jun-2022	22-Jun-2022	527742
dichlorotoluene, 3,4-	97-75-0	91.7	1.0	%	E581.F1	16-Jun-2022	16-Jun-2022	526634

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

WT2205639-015

Sub-Matrix:**Soil**
(Matrix: **Soil/Solid**)

Client sample ID: S-12581540-220613-JB-BH1-22-0.0-0.6
Client sampling date / time: 13-Jun-2022 15:20

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Physical Tests								
conductivity (1:2 leachate)	----	0.168	0.00500	mS/cm	E100-L	20-Jun-2022	21-Jun-2022	526293
moisture	----	8.53	0.25	%	E144	-	17-Jun-2022	527457
pH (1:2 soil:CaCl2-aq)	----	7.68	0.10	pH units	E108A	16-Jun-2022	17-Jun-2022	526568
Cyanides								
cyanide, weak acid dissociable	----	<0.050	0.050	mg/kg	E336A	16-Jun-2022	17-Jun-2022	526403
Saturated Paste Extractables								
calcium, soluble ion content	7440-70-2	26.7	0.50	mg/L	E484	20-Jun-2022	21-Jun-2022	526295
magnesium, soluble ion content	7439-95-4	2.38	0.50	mg/L	E484	20-Jun-2022	21-Jun-2022	526295
sodium, soluble ion content	17341-25-2	2.91	0.50	mg/L	E484	20-Jun-2022	21-Jun-2022	526295
sodium adsorption ratio [SAR]	----	0.14	0.10	-	E484	20-Jun-2022	21-Jun-2022	526295
Metals								
antimony	7440-36-0	1.28	0.10	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
arsenic	7440-38-2	37.0	0.10	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
barium	7440-39-3	83.8	0.50	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
beryllium	7440-41-7	0.42	0.10	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
boron	7440-42-8	7.5	5.0	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
boron, hot water soluble	7440-42-8	0.25	0.10	mg/kg	E487	20-Jun-2022	20-Jun-2022	526296
cadmium	7440-43-9	1.34	0.020	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
chromium	7440-47-3	40.4	0.50	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
cobalt	7440-48-4	6.74	0.10	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
copper	7440-50-8	48.3	0.50	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
lead	7439-92-1	81.0	0.50	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
mercury	7439-97-6	0.0972	0.0050	mg/kg	E510	20-Jun-2022	20-Jun-2022	526291
molybdenum	7439-98-7	1.94	0.10	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
nickel	7440-02-0	34.4	0.50	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
selenium	7782-49-2	0.21	0.20	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
silver	7440-22-4	<0.10	0.50	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
thallium	7440-28-0	0.094	0.050	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
uranium	7440-61-1	0.431	0.050	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
vanadium	7440-62-2	75.1	0.20	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
zinc	7440-66-6	193	2.0	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
Speciated Metals								
chromium, hexavalent [Cr VI]	18540-29-9	<0.10	0.10	mg/kg	E532	16-Jun-2022	17-Jun-2022	526326
Volatile Organic Compounds								
acetone	67-64-1	<0.50	0.50	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
benzene	71-43-2	<0.0050	0.0050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
bromodichloromethane	75-27-4	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
bromoform	75-25-2	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
bromomethane	74-83-9	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
carbon tetrachloride	56-23-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
chlorobenzene	108-90-7	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
chloroform	67-66-3	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dibromochloromethane	124-48-1	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dibromoethane, 1,2-	106-93-4	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichlorobenzene, 1,2-	95-50-1	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichlorobenzene, 1,3-	541-73-1	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635

Analytical Results

WT2205639-015

Sub-Matrix: **Soil**
(Matrix: **Soil/Solid**)

Client sample ID: S-12581540-220613-JB-BH1-22-0.0-0.6
Client sampling date / time: 13-Jun-2022 15:20

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
dichlorobenzene, 1,4-	106-46-7	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichlorodifluoromethane	75-71-8	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloroethane, 1,1-	75-34-3	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloroethane, 1,2-	107-06-2	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloroethylene, 1,1-	75-35-4	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloroethylene, cis-1,2-	156-59-2	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloroethylene, trans-1,2-	156-60-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloromethane	75-09-2	<0.045	0.045	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloropropane, 1,2-	78-87-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloropropylene, cis+trans-1,3-	542-75-6	<0.050	0.05	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloropropylene, cis-1,3-	10061-01-5	<0.030	0.030	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloropropylene, trans-1,3-	10061-02-6	<0.030	0.030	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
ethylbenzene	100-41-4	<0.015	0.015	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
hexane, n-	110-54-3	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
methyl ethyl ketone [MEK]	78-93-3	<0.50	0.50	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
methyl isobutyl ketone [MIBK]	108-10-1	<0.50	0.50	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
methyl-tert-butyl ether [MTBE]	1634-04-4	<0.040	0.040	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
styrene	100-42-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
tetrachloroethane, 1,1,1,2-	630-20-6	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
tetrachloroethane, 1,1,2,2-	79-34-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
tetrachloroethylene	127-18-4	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
toluene	108-88-3	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
trichloroethane, 1,1,1-	71-55-6	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
trichloroethane, 1,1,2-	79-00-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
trichloroethylene	79-01-6	<0.010	0.010	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
trichlorofluoromethane	75-69-4	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
vinyl chloride	75-01-4	<0.020	0.020	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
xylene, m+p-	179601-23-1	<0.030	0.030	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
xylene, o-	95-47-6	<0.030	0.030	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
xylenes, total	1330-20-7	<0.050	0.05	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
BTEX, total	----	<0.10	0.1	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
Volatile Organic Compounds Surrogates								
bromofluorobenzene, 4-	460-00-4	76.5	0.10	%	E611D	16-Jun-2022	16-Jun-2022	526635
difluorobenzene, 1,4-	540-36-3	90.7	0.10	%	E611D	16-Jun-2022	16-Jun-2022	526635
Hydrocarbons								
F1 (C6-C10)	----	<5.0	5.0	mg/kg	E581.F1	16-Jun-2022	16-Jun-2022	526634
F2 (C10-C16)	----	<10	10	mg/kg	E601.SG-L	20-Jun-2022	22-Jun-2022	527742
F2-naphthalene	----	<25	25	mg/kg	EC600	-	17-Jun-2022	-
F3 (C16-C34)	----	143	50	mg/kg	E601.SG-L	20-Jun-2022	22-Jun-2022	527742
F3-PAH	n/a	142	50	mg/kg	EC600	-	17-Jun-2022	-
F4 (C34-C50)	----	316	50	mg/kg	E601.SG-L	20-Jun-2022	22-Jun-2022	527742
F4G-sg	----	1290	250	mg/kg	E601.F4G-L	22-Jun-2022	22-Jun-2022	533665
F1-BTEX	----	<5.0	5	mg/kg	EC580	-	20-Jun-2022	-
hydrocarbons, total (C6-C50)	----	459	80	mg/kg	EC581	-	20-Jun-2022	-
chromatogram to baseline at nC50	n/a	NO	-	-	E601.SG-L	20-Jun-2022	22-Jun-2022	527742
Hydrocarbons Surrogates								
bromobenzotrifluoride, 2- (F2-F4 surr)	392-83-6	90.8	1.0	%	E601.SG-L	20-Jun-2022	22-Jun-2022	527742
dichlorotoluene, 3,4-	97-75-0	102	1.0	%	E581.F1	16-Jun-2022	16-Jun-2022	526634

Analytical Results

WT2205639-015

Sub-Matrix: **Soil** (Matrix: **Soil/Solid**)

Client sample ID: S-12581540-220613-JB-BH1-22-0.0-0.6

Client sampling date / time: 13-Jun-2022 15:20

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons								
acenaphthene	83-32-9	<0.050	0.050	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
acenaphthylene	208-96-8	<0.050	0.050	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
anthracene	120-12-7	<0.050	0.050	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
benz(a)anthracene	56-55-3	0.059	0.050	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
benzo(a)pyrene	50-32-8	0.088	0.050	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
benzo(b+j)fluoranthene	n/a	0.109	0.050	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
benzo(g,h,i)perylene	191-24-2	0.120	0.050	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
benzo(k)fluoranthene	207-08-9	0.050	0.050	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
chrysene	218-01-9	0.077	0.050	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
dibenz(a,h)anthracene	53-70-3	<0.050	0.050	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
fluoranthene	206-44-0	0.127	0.050	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
fluorene	86-73-7	<0.050	0.050	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
indeno(1,2,3-c,d)pyrene	193-39-5	0.080	0.050	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
methylnaphthalene, 1-	90-12-0	<0.030	0.030	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
methylnaphthalene, 1+2-	----	<0.050	0.05	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
methylnaphthalene, 2-	91-57-6	<0.030	0.030	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
naphthalene	91-20-3	<0.010	0.010	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
phenanthrene	85-01-8	0.053	0.050	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
pyrene	129-00-0	0.108	0.050	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
Polycyclic Aromatic Hydrocarbons Surrogates								
fluorobiphenyl, 2-	321-60-8	86.8	0.1	%	E642F	16-Jun-2022	17-Jun-2022	526650
terphenyl-d14, p-	1718-51-0	91.0	0.1	%	E642F	16-Jun-2022	17-Jun-2022	526650

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

WT2205639-016

Sub-Matrix: **Soil** (Matrix: **Soil/Solid**)

Client sample ID: S-12581540-220613-JB-BH7-22-0.0-0.6

Client sampling date / time: 13-Jun-2022 12:25

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Physical Tests								
conductivity (1:2 leachate)	----	0.826	0.00500	mS/cm	E100-L	20-Jun-2022	21-Jun-2022	526293
moisture	----	22.0	0.25	%	E144	-	19-Jun-2022	530101
pH (1:2 soil:CaCl2-aq)	----	10.8	0.10	pH units	E108A	16-Jun-2022	17-Jun-2022	526568
Cyanides								
cyanide, weak acid dissociable	----	<0.050	0.050	mg/kg	E336A	16-Jun-2022	17-Jun-2022	526403
Saturated Paste Extractables								
calcium, soluble ion content	7440-70-2	107	0.50	mg/L	E484	20-Jun-2022	21-Jun-2022	526295
magnesium, soluble ion content	7439-95-4	0.78	0.50	mg/L	E484	20-Jun-2022	21-Jun-2022	526295
sodium, soluble ion content	17341-25-2	62.8	0.50	mg/L	E484	20-Jun-2022	21-Jun-2022	526295
sodium adsorption ratio [SAR]	----	1.66	0.10	-	E484	20-Jun-2022	21-Jun-2022	526295
Metals								
antimony	7440-36-0	0.44	0.10	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
arsenic	7440-38-2	39.4	0.10	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
barium	7440-39-3	116	0.50	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
beryllium	7440-41-7	0.46	0.10	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292

Analytical Results

WT2205639-016

Sub-Matrix: **Soil**
(Matrix: **Soil/Solid**)

Client sample ID: S-12581540-220613-JB-BH7-22-0.0-0.6
Client sampling date / time: 13-Jun-2022 12:25

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Metals								
boron	7440-42-8	19.8	5.0	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
boron, hot water soluble	7440-42-8	0.63	0.10	mg/kg	E487	20-Jun-2022	20-Jun-2022	526296
cadmium	7440-43-9	0.868	0.020	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
chromium	7440-47-3	113	0.50	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
cobalt	7440-48-4	5.52	0.10	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
copper	7440-50-8	26.8	0.50	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
lead	7439-92-1	48.0	0.50	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
mercury	7439-97-6	0.137	0.0050	mg/kg	E510	20-Jun-2022	20-Jun-2022	526291
molybdenum	7439-98-7	2.02	0.10	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
nickel	7440-02-0	172	0.50	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
selenium	7782-49-2	1.09	0.20	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
silver	7440-22-4	<0.10	0.50	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
thallium	7440-28-0	0.059	0.050	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
uranium	7440-61-1	1.16	0.050	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
vanadium	7440-62-2	387	0.20	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
zinc	7440-66-6	145	2.0	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
Speciated Metals								
chromium, hexavalent [Cr VI]	18540-29-9	1.45	0.10	mg/kg	E532	16-Jun-2022	17-Jun-2022	526326
Volatile Organic Compounds								
acetone	67-64-1	<0.50	0.50	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
benzene	71-43-2	<0.0050	0.0050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
bromodichloromethane	75-27-4	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
bromoform	75-25-2	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
bromomethane	74-83-9	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
carbon tetrachloride	56-23-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
chlorobenzene	108-90-7	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
chloroform	67-66-3	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dibromochloromethane	124-48-1	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dibromoethane, 1,2-	106-93-4	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichlorobenzene, 1,2-	95-50-1	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichlorobenzene, 1,3-	541-73-1	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichlorobenzene, 1,4-	106-46-7	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichlorodifluoromethane	75-71-8	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloroethane, 1,1-	75-34-3	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloroethane, 1,2-	107-06-2	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloroethylene, 1,1-	75-35-4	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloroethylene, cis-1,2-	156-59-2	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloroethylene, trans-1,2-	156-60-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloromethane	75-09-2	<0.045 RRR	0.054	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloropropane, 1,2-	78-87-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloropropylene, cis+trans-1,3-	542-75-6	<0.050	0.05	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloropropylene, cis-1,3-	10061-01-5	<0.030	0.030	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloropropylene, trans-1,3-	10061-02-6	<0.030	0.030	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
ethylbenzene	100-41-4	<0.015	0.015	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
hexane, n-	110-54-3	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
methyl ethyl ketone [MEK]	78-93-3	<0.50	0.50	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
methyl isobutyl ketone [MIBK]	108-10-1	<0.50	0.50	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
methyl-tert-butyl ether [MTBE]	1634-04-4	<0.040	0.040	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635

Analytical Results

WT2205639-016

Sub-Matrix: **Soil**
(Matrix: **Soil/Solid**)

Client sample ID: S-12581540-220613-JB-BH7-22-0.0-0.6
Client sampling date / time: 13-Jun-2022 12:25

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
styrene	100-42-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
tetrachloroethane, 1,1,1,2-	630-20-6	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
tetrachloroethane, 1,1,2,2-	79-34-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
tetrachloroethylene	127-18-4	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
toluene	108-88-3	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
trichloroethane, 1,1,1-	71-55-6	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
trichloroethane, 1,1,2-	79-00-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
trichloroethylene	79-01-6	<0.010	0.010	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
trichlorofluoromethane	75-69-4	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
vinyl chloride	75-01-4	<0.020	0.020	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
xylene, m+p-	179601-23-1	<0.030	0.030	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
xylene, o-	95-47-6	<0.030	0.030	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
xylenes, total	1330-20-7	<0.050	0.05	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
BTEX, total	----	<0.10	0.1	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
Volatile Organic Compounds Surrogates								
bromofluorobenzene, 4-	460-00-4	78.9	0.10	%	E611D	16-Jun-2022	16-Jun-2022	526635
difluorobenzene, 1,4-	540-36-3	94.3	0.10	%	E611D	16-Jun-2022	16-Jun-2022	526635
Hydrocarbons								
F1 (C6-C10)	----	<5.0	5.0	mg/kg	E581.F1	16-Jun-2022	16-Jun-2022	526634
F2 (C10-C16)	----	<10 DLM,	30	mg/kg	E601.SG-L	20-Jun-2022	22-Jun-2022	527742
F3 (C16-C34)	----	806	90	mg/kg	E601.SG-L	20-Jun-2022	22-Jun-2022	527742
F4 (C34-C50)	----	2330	90	mg/kg	E601.SG-L	20-Jun-2022	22-Jun-2022	527742
F4G-sg	----	6630	250	mg/kg	E601.F4G-L	22-Jun-2022	22-Jun-2022	533665
F1-BTEX	----	<5.0	5	mg/kg	EC580	-	20-Jun-2022	-
hydrocarbons, total (C6-C50)	----	3140	131	mg/kg	EC581	-	20-Jun-2022	-
chromatogram to baseline at nC50	n/a	NO	-	-	E601.SG-L	20-Jun-2022	22-Jun-2022	527742
Hydrocarbons Surrogates								
bromobenzotrifluoride, 2- (F2-F4 surr)	392-83-6	82.1	3.8	%	E601.SG-L	20-Jun-2022	22-Jun-2022	527742
dichlorotoluene, 3,4-	97-75-0	89.6	1.0	%	E581.F1	16-Jun-2022	16-Jun-2022	526634
Polychlorinated Biphenyls								
Aroclor 1016	12674-11-2	<0.010 DLM,	0.040	mg/kg	E687	16-Jun-2022	17-Jun-2022	526651
Aroclor 1221	11104-28-2	<0.010 DLM,	0.040	mg/kg	E687	16-Jun-2022	17-Jun-2022	526651
Aroclor 1232	11141-16-5	<0.010 DLM,	0.040	mg/kg	E687	16-Jun-2022	17-Jun-2022	526651
Aroclor 1242	53469-21-9	<0.010 DLM,	0.040	mg/kg	E687	16-Jun-2022	17-Jun-2022	526651
Aroclor 1248	12672-29-6	<0.010 DLM,	0.040	mg/kg	E687	16-Jun-2022	17-Jun-2022	526651
Aroclor 1254	11097-69-1	<0.010 DLM,	0.040	mg/kg	E687	16-Jun-2022	17-Jun-2022	526651
Aroclor 1260	11096-82-5	<0.010 DLM,	0.040	mg/kg	E687	16-Jun-2022	17-Jun-2022	526651
Aroclor 1262	37324-23-5	<0.010 DLM,	0.040	mg/kg	E687	16-Jun-2022	17-Jun-2022	526651
Aroclor 1268	11100-14-4	<0.010 DLM,	0.040	mg/kg	E687	16-Jun-2022	17-Jun-2022	526651
polychlorinated biphenyls [PCBs], total	----	<0.030 DLM,	0.120	mg/kg	E687	16-Jun-2022	17-Jun-2022	526651
Polychlorinated Biphenyls Surrogates								
fluorobiphenyl, 2-	321-60-8	62.4	0.1	%	E687	16-Jun-2022	17-Jun-2022	526651
terphenyl-d14, p-	1718-51-0	66.6	0.040	%	E687	16-Jun-2022	17-Jun-2022	526651

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

WT2205639-017

Sub-Matrix: **Soil**
(Matrix: **Soil/Solid**)

Client sample ID: S-12581540-220613-JB-BH10-22-0.0-0.6
Client sampling date / time: 13-Jun-2022 11:22

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Physical Tests								
conductivity (1:2 leachate)	----	0.805	0.00500	mS/cm	E100-L	20-Jun-2022	21-Jun-2022	526293
moisture	----	6.95	0.25	%	E144	-	16-Jun-2022	526200
pH (1:2 soil:CaCl2-aq)	----	10.3	0.10	pH units	E108A	16-Jun-2022	17-Jun-2022	526568
Cyanides								
cyanide, weak acid dissociable	----	<0.050	0.050	mg/kg	E336A	16-Jun-2022	17-Jun-2022	526403
Saturated Paste Extractables								
calcium, soluble ion content	7440-70-2	3.47	0.50	mg/L	E484	20-Jun-2022	21-Jun-2022	526295
magnesium, soluble ion content	7439-95-4	<0.50	0.50	mg/L	E484	20-Jun-2022	21-Jun-2022	526295
sodium, soluble ion content	17341-25-2	153	0.50	mg/L	E484	20-Jun-2022	21-Jun-2022	526295
sodium adsorption ratio [SAR]	----	22.6	0.10	-	E484	20-Jun-2022	21-Jun-2022	526295
Metals								
antimony	7440-36-0	0.51	0.10	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
arsenic	7440-38-2	5.90	0.10	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
barium	7440-39-3	102	0.50	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
beryllium	7440-41-7	1.01	0.10	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
boron	7440-42-8	14.6	5.0	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
boron, hot water soluble	7440-42-8	0.77	0.10	mg/kg	E487	20-Jun-2022	20-Jun-2022	526296
cadmium	7440-43-9	2.90	0.020	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
chromium	7440-47-3	56.5	0.50	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
cobalt	7440-48-4	3.34	0.10	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
copper	7440-50-8	19.0	0.50	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
lead	7439-92-1	286	0.50	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
mercury	7439-97-6	0.0320	0.0050	mg/kg	E510	20-Jun-2022	20-Jun-2022	526291
molybdenum	7439-98-7	2.60	0.10	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
nickel	7440-02-0	12.3	0.50	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
selenium	7782-49-2	0.83	0.20	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
silver	7440-22-4	<0.10	0.50	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
thallium	7440-28-0	0.101	0.050	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
uranium	7440-61-1	1.12	0.050	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
vanadium	7440-62-2	35.8	0.20	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
zinc	7440-66-6	1310	2.0	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
Speciated Metals								
chromium, hexavalent [Cr VI]	18540-29-9	0.18	0.10	mg/kg	E532	16-Jun-2022	17-Jun-2022	526326
Volatile Organic Compounds								
acetone	67-64-1	<0.50	0.50	mg/kg	E611D	16-Jun-2022	20-Jun-2022	526635
benzene	71-43-2	<0.0050	0.0050	mg/kg	E611D	16-Jun-2022	20-Jun-2022	526635
bromodichloromethane	75-27-4	<0.050	0.050	mg/kg	E611D	16-Jun-2022	20-Jun-2022	526635
bromoform	75-25-2	<0.050	0.050	mg/kg	E611D	16-Jun-2022	20-Jun-2022	526635
bromomethane	74-83-9	<0.050	0.050	mg/kg	E611D	16-Jun-2022	20-Jun-2022	526635
carbon tetrachloride	56-23-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	20-Jun-2022	526635
chlorobenzene	108-90-7	<0.050	0.050	mg/kg	E611D	16-Jun-2022	20-Jun-2022	526635
chloroform	67-66-3	<0.050	0.050	mg/kg	E611D	16-Jun-2022	20-Jun-2022	526635
dibromochloromethane	124-48-1	<0.050	0.050	mg/kg	E611D	16-Jun-2022	20-Jun-2022	526635
dibromoethane, 1,2-	106-93-4	<0.050	0.050	mg/kg	E611D	16-Jun-2022	20-Jun-2022	526635
dichlorobenzene, 1,2-	95-50-1	<0.050	0.050	mg/kg	E611D	16-Jun-2022	20-Jun-2022	526635
dichlorobenzene, 1,3-	541-73-1	<0.050	0.050	mg/kg	E611D	16-Jun-2022	20-Jun-2022	526635
dichlorobenzene, 1,4-	106-46-7	<0.050	0.050	mg/kg	E611D	16-Jun-2022	20-Jun-2022	526635
dichlorodifluoromethane	75-71-8	<0.050	0.050	mg/kg	E611D	16-Jun-2022	20-Jun-2022	526635

Analytical Results

WT2205639-017

Sub-Matrix: **Soil**
(Matrix: **Soil/Solid**)

Client sample ID: S-12581540-220613-JB-BH10-22-0.0-0.6
Client sampling date / time: 13-Jun-2022 11:22

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
dichloroethane, 1,1-	75-34-3	<0.050	0.050	mg/kg	E611D	16-Jun-2022	20-Jun-2022	526635
dichloroethane, 1,2-	107-06-2	<0.050	0.050	mg/kg	E611D	16-Jun-2022	20-Jun-2022	526635
dichloroethylene, 1,1-	75-35-4	<0.050	0.050	mg/kg	E611D	16-Jun-2022	20-Jun-2022	526635
dichloroethylene, cis-1,2-	156-59-2	<0.050	0.050	mg/kg	E611D	16-Jun-2022	20-Jun-2022	526635
dichloroethylene, trans-1,2-	156-60-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	20-Jun-2022	526635
dichloromethane	75-09-2	<0.045	0.045	mg/kg	E611D	16-Jun-2022	20-Jun-2022	526635
dichloropropane, 1,2-	78-87-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	20-Jun-2022	526635
dichloropropylene, cis+trans-1,3-	542-75-6	<0.050	0.05	mg/kg	E611D	16-Jun-2022	20-Jun-2022	526635
dichloropropylene, cis-1,3-	10061-01-5	<0.030	0.030	mg/kg	E611D	16-Jun-2022	20-Jun-2022	526635
dichloropropylene, trans-1,3-	10061-02-6	<0.030	0.030	mg/kg	E611D	16-Jun-2022	20-Jun-2022	526635
ethylbenzene	100-41-4	<0.015	0.015	mg/kg	E611D	16-Jun-2022	20-Jun-2022	526635
hexane, n-	110-54-3	<0.050	0.050	mg/kg	E611D	16-Jun-2022	20-Jun-2022	526635
methyl ethyl ketone [MEK]	78-93-3	<0.50	0.50	mg/kg	E611D	16-Jun-2022	20-Jun-2022	526635
methyl isobutyl ketone [MIBK]	108-10-1	<0.50	0.50	mg/kg	E611D	16-Jun-2022	20-Jun-2022	526635
methyl-tert-butyl ether [MTBE]	1634-04-4	<0.040	0.040	mg/kg	E611D	16-Jun-2022	20-Jun-2022	526635
styrene	100-42-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	20-Jun-2022	526635
tetrachloroethane, 1,1,1,2-	630-20-6	<0.050	0.050	mg/kg	E611D	16-Jun-2022	20-Jun-2022	526635
tetrachloroethane, 1,1,2,2-	79-34-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	20-Jun-2022	526635
tetrachloroethylene	127-18-4	<0.050	0.050	mg/kg	E611D	16-Jun-2022	20-Jun-2022	526635
toluene	108-88-3	<0.050	0.050	mg/kg	E611D	16-Jun-2022	20-Jun-2022	526635
trichloroethane, 1,1,1-	71-55-6	<0.050	0.050	mg/kg	E611D	16-Jun-2022	20-Jun-2022	526635
trichloroethane, 1,1,2-	79-00-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	20-Jun-2022	526635
trichloroethylene	79-01-6	<0.010	0.010	mg/kg	E611D	16-Jun-2022	20-Jun-2022	526635
trichlorofluoromethane	75-69-4	<0.050	0.050	mg/kg	E611D	16-Jun-2022	20-Jun-2022	526635
vinyl chloride	75-01-4	<0.020	0.020	mg/kg	E611D	16-Jun-2022	20-Jun-2022	526635
xylene, m+p-	179601-23-1	<0.030	0.030	mg/kg	E611D	16-Jun-2022	20-Jun-2022	526635
xylene, o-	95-47-6	<0.030	0.030	mg/kg	E611D	16-Jun-2022	20-Jun-2022	526635
xylenes, total	1330-20-7	<0.050	0.05	mg/kg	E611D	16-Jun-2022	20-Jun-2022	526635
BTEX, total	----	<0.10	0.1	mg/kg	E611D	16-Jun-2022	20-Jun-2022	526635
Volatile Organic Compounds Surrogates								
bromofluorobenzene, 4-	460-00-4	84.9	0.10	%	E611D	16-Jun-2022	20-Jun-2022	526635
difluorobenzene, 1,4-	540-36-3	100	0.10	%	E611D	16-Jun-2022	20-Jun-2022	526635
Hydrocarbons								
F1 (C6-C10)	----	<5.0	5.0	mg/kg	E581.F1	16-Jun-2022	20-Jun-2022	526634
F2 (C10-C16)	----	<10 DLM	30	mg/kg	E601.SG-L	20-Jun-2022	22-Jun-2022	527742
F2-naphthalene	----	<25	30	mg/kg	EC600	-	20-Jun-2022	-
F3 (C16-C34)	----	778	91	mg/kg	E601.SG-L	20-Jun-2022	22-Jun-2022	527742
F3-PAH	n/a	770	91	mg/kg	EC600	-	20-Jun-2022	-
F4 (C34-C50)	----	1660	91	mg/kg	E601.SG-L	20-Jun-2022	22-Jun-2022	527742
F4G-sg	----	5260	250	mg/kg	E601.F4G-L	22-Jun-2022	22-Jun-2022	533665
F1-BTEX	----	<5.0	5	mg/kg	EC580	-	17-Jun-2022	-
hydrocarbons, total (C6-C50)	----	2440	132	mg/kg	EC581	-	17-Jun-2022	-
chromatogram to baseline at nC50	n/a	NO	-	-	E601.SG-L	20-Jun-2022	22-Jun-2022	527742
Hydrocarbons Surrogates								
bromobenzotrifluoride, 2- (F2-F4 surr)	392-83-6	84.9	3.8	%	E601.SG-L	20-Jun-2022	22-Jun-2022	527742
dichlorotoluene, 3,4-	97-75-0	75.3	1.0	%	E581.F1	16-Jun-2022	20-Jun-2022	526634
Polycyclic Aromatic Hydrocarbons								
acenaphthene	83-32-9	0.157	0.050	mg/kg	E642F	16-Jun-2022	18-Jun-2022	526650

Analytical Results

WT2205639-017

Sub-Matrix:**Soil**
(Matrix: **Soil/Solid)**

Client sample ID: S-12581540-220613-JB-BH10-22-0.0-0.6
Client sampling date / time: 13-Jun-2022 11:22

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons								
acenaphthylene	208-96-8	<0.050	0.050	mg/kg	E642F	16-Jun-2022	18-Jun-2022	526650
anthracene	120-12-7	0.499	0.050	mg/kg	E642F	16-Jun-2022	18-Jun-2022	526650
benz(a)anthracene	56-55-3	0.704	0.050	mg/kg	E642F	16-Jun-2022	18-Jun-2022	526650
benzo(a)pyrene	50-32-8	0.667	0.050	mg/kg	E642F	16-Jun-2022	18-Jun-2022	526650
benzo(b+j)fluoranthene	n/a	0.831	0.050	mg/kg	E642F	16-Jun-2022	18-Jun-2022	526650
benzo(g,h,i)perylene	191-24-2	0.402	0.050	mg/kg	E642F	16-Jun-2022	18-Jun-2022	526650
benzo(k)fluoranthene	207-08-9	0.258	0.050	mg/kg	E642F	16-Jun-2022	18-Jun-2022	526650
chrysene	218-01-9	0.702	0.050	mg/kg	E642F	16-Jun-2022	18-Jun-2022	526650
dibenz(a,h)anthracene	53-70-3	0.120	0.050	mg/kg	E642F	16-Jun-2022	18-Jun-2022	526650
fluoranthene	206-44-0	1.67	0.050	mg/kg	E642F	16-Jun-2022	18-Jun-2022	526650
fluorene	86-73-7	0.327	0.050	mg/kg	E642F	16-Jun-2022	18-Jun-2022	526650
indeno(1,2,3-c,d)pyrene	193-39-5	0.331	0.050	mg/kg	E642F	16-Jun-2022	18-Jun-2022	526650
methylnaphthalene, 1-	90-12-0	0.124	0.030	mg/kg	E642F	16-Jun-2022	18-Jun-2022	526650
methylnaphthalene, 1+2-	----	0.310	0.05	mg/kg	E642F	16-Jun-2022	18-Jun-2022	526650
methylnaphthalene, 2-	91-57-6	0.186	0.030	mg/kg	E642F	16-Jun-2022	18-Jun-2022	526650
naphthalene	91-20-3	0.190	0.020	mg/kg	E642F	16-Jun-2022	18-Jun-2022	526650
phenanthrene	85-01-8	1.83	0.050	mg/kg	E642F	16-Jun-2022	18-Jun-2022	526650
pyrene	129-00-0	1.31	0.050	mg/kg	E642F	16-Jun-2022	18-Jun-2022	526650
Polycyclic Aromatic Hydrocarbons Surrogates								
fluorobiphenyl, 2-	321-60-8	74.1	0.1	%	E642F	16-Jun-2022	18-Jun-2022	526650
terphenyl-d14, p-	1718-51-0	69.3	0.1	%	E642F	16-Jun-2022	18-Jun-2022	526650

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

WT2205639-018

Sub-Matrix:**Soil**
(Matrix: **Soil/Solid)**

Client sample ID: S-12581540-220613-JB-BH10-22-1.5-1.8
Client sampling date / time: 13-Jun-2022 11:38

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Physical Tests								
moisture	----	13.2	0.25	%	E144	-	16-Jun-2022	526200
Volatile Organic Compounds								
acetone	67-64-1	<0.50	0.50	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
benzene	71-43-2	<0.0050	0.0050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
bromodichloromethane	75-27-4	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
bromoform	75-25-2	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
bromomethane	74-83-9	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
carbon tetrachloride	56-23-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
chlorobenzene	108-90-7	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
chloroform	67-66-3	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dibromochloromethane	124-48-1	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dibromoethane, 1,2-	106-93-4	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichlorobenzene, 1,2-	95-50-1	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichlorobenzene, 1,3-	541-73-1	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichlorobenzene, 1,4-	106-46-7	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichlorodifluoromethane	75-71-8	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635

Analytical Results

WT2205639-018

Sub-Matrix: **Soil**
(Matrix: **Soil/Solid**)

Client sample ID: S-12581540-220613-JB-BH10-22-1.5-1.8
Client sampling date / time: 13-Jun-2022 11:38

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
dichloroethane, 1,1-	75-34-3	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloroethane, 1,2-	107-06-2	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloroethylene, 1,1-	75-35-4	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloroethylene, cis-1,2-	156-59-2	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloroethylene, trans-1,2-	156-60-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloromethane	75-09-2	<0.045	0.045	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloropropane, 1,2-	78-87-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloropropylene, cis+trans-1,3-	542-75-6	<0.050	0.05	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloropropylene, cis-1,3-	10061-01-5	<0.030	0.030	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloropropylene, trans-1,3-	10061-02-6	<0.030	0.030	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
ethylbenzene	100-41-4	<0.015	0.015	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
hexane, n-	110-54-3	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
methyl ethyl ketone [MEK]	78-93-3	<0.50	0.50	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
methyl isobutyl ketone [MIBK]	108-10-1	<0.50	0.50	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
methyl-tert-butyl ether [MTBE]	1634-04-4	<0.040	0.040	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
styrene	100-42-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
tetrachloroethane, 1,1,1,2-	630-20-6	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
tetrachloroethane, 1,1,2,2-	79-34-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
tetrachloroethylene	127-18-4	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
toluene	108-88-3	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
trichloroethane, 1,1,1-	71-55-6	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
trichloroethane, 1,1,2-	79-00-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
trichloroethylene	79-01-6	<0.010	0.010	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
trichlorofluoromethane	75-69-4	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
vinyl chloride	75-01-4	<0.020	0.020	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
xylene, m+p-	179601-23-1	<0.030	0.030	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
xylene, o-	95-47-6	<0.030	0.030	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
xylenes, total	1330-20-7	<0.050	0.05	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
BTEX, total	----	<0.10	0.1	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
Volatile Organic Compounds Surrogates								
bromofluorobenzene, 4-	460-00-4	73.0	0.10	%	E611D	16-Jun-2022	16-Jun-2022	526635
difluorobenzene, 1,4-	540-36-3	83.8	0.10	%	E611D	16-Jun-2022	16-Jun-2022	526635
Hydrocarbons								
F1 (C6-C10)	----	<5.0	5.0	mg/kg	E581.F1	16-Jun-2022	16-Jun-2022	526634
F2 (C10-C16)	----	<10	10	mg/kg	E601.SG-L	20-Jun-2022	22-Jun-2022	527742
F3 (C16-C34)	----	51	50	mg/kg	E601.SG-L	20-Jun-2022	22-Jun-2022	527742
F4 (C34-C50)	----	118	50	mg/kg	E601.SG-L	20-Jun-2022	22-Jun-2022	527742
F1-BTEX	----	<5.0	5	mg/kg	EC580	-	17-Jun-2022	-
hydrocarbons, total (C6-C50)	----	169	80	mg/kg	EC581	-	17-Jun-2022	-
chromatogram to baseline at nC50	n/a	Yes	-	-	E601.SG-L	20-Jun-2022	22-Jun-2022	527742
Hydrocarbons Surrogates								
bromobenzotrifluoride, 2- (F2-F4 surr)	392-83-6	88.9	1.0	%	E601.SG-L	20-Jun-2022	22-Jun-2022	527742
dichlorotoluene, 3,4-	97-75-0	91.8	1.0	%	E581.F1	16-Jun-2022	16-Jun-2022	526634

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

WT2205639-019

Sub-Matrix: **Soil**
(Matrix: **Soil/Solid**)

Client sample ID: S-12581540-220613-JB-BH10-22-1.5-1.8X
Client sampling date / time: 13-Jun-2022 11:38

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Physical Tests								
moisture	----	8.69	0.25	%	E144	-	16-Jun-2022	526200
Volatile Organic Compounds								
acetone	67-64-1	<0.50	0.50	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
benzene	71-43-2	<0.0050	0.0050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
bromodichloromethane	75-27-4	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
bromoform	75-25-2	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
bromomethane	74-83-9	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
carbon tetrachloride	56-23-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
chlorobenzene	108-90-7	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
chloroform	67-66-3	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dibromochloromethane	124-48-1	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dibromoethane, 1,2-	106-93-4	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichlorobenzene, 1,2-	95-50-1	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichlorobenzene, 1,3-	541-73-1	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichlorobenzene, 1,4-	106-46-7	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichlorodifluoromethane	75-71-8	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloroethane, 1,1-	75-34-3	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloroethane, 1,2-	107-06-2	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloroethylene, 1,1-	75-35-4	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloroethylene, cis-1,2-	156-59-2	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloroethylene, trans-1,2-	156-60-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloromethane	75-09-2	<0.045	0.045	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloropropane, 1,2-	78-87-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloropropylene, cis+trans-1,3-	542-75-6	<0.050	0.05	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloropropylene, cis-1,3-	10061-01-5	<0.030	0.030	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloropropylene, trans-1,3-	10061-02-6	<0.030	0.030	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
ethylbenzene	100-41-4	<0.015	0.015	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
hexane, n-	110-54-3	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
methyl ethyl ketone [MEK]	78-93-3	<0.50	0.50	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
methyl isobutyl ketone [MIBK]	108-10-1	<0.50	0.50	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
methyl-tert-butyl ether [MTBE]	1634-04-4	<0.040	0.040	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
styrene	100-42-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
tetrachloroethane, 1,1,1,2-	630-20-6	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
tetrachloroethane, 1,1,2,2-	79-34-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
tetrachloroethylene	127-18-4	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
toluene	108-88-3	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
trichloroethane, 1,1,1-	71-55-6	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
trichloroethane, 1,1,2-	79-00-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
trichloroethylene	79-01-6	<0.010	0.010	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
trichlorofluoromethane	75-69-4	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
vinyl chloride	75-01-4	<0.020	0.020	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
xylene, m+p-	179601-23-1	<0.030	0.030	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
xylene, o-	95-47-6	<0.030	0.030	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
xylenes, total	1330-20-7	<0.050	0.05	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
BTEX, total	----	<0.10	0.1	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
Volatile Organic Compounds Surrogates								
bromofluorobenzene, 4-	460-00-4	82.9	0.10	%	E611D	16-Jun-2022	16-Jun-2022	526635
difluorobenzene, 1,4-	540-36-3	92.0	0.10	%	E611D	16-Jun-2022	16-Jun-2022	526635

Analytical Results

WT2205639-019

Sub-Matrix:**Soil** *Client sample ID:* S-12581540-220613-JB-BH10-22-1.5-1.8X

(Matrix: **Soil/Solid**) *Client sampling date / time:* 13-Jun-2022 11:38

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Hydrocarbons								
F1 (C6-C10)	----	<5.0	5.0	mg/kg	E581.F1	16-Jun-2022	16-Jun-2022	526634
F2 (C10-C16)	----	109	10	mg/kg	E601.SG-L	20-Jun-2022	22-Jun-2022	527742
F3 (C16-C34)	----	<50	50	mg/kg	E601.SG-L	20-Jun-2022	22-Jun-2022	527742
F4 (C34-C50)	----	<50	50	mg/kg	E601.SG-L	20-Jun-2022	22-Jun-2022	527742
F1-BTEX	----	<5.0	5	mg/kg	EC580	-	17-Jun-2022	-
hydrocarbons, total (C6-C50)	----	109	80	mg/kg	EC581	-	17-Jun-2022	-
chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG-L	20-Jun-2022	22-Jun-2022	527742
Hydrocarbons Surrogates								
bromobenzotrifluoride, 2- (F2-F4 surr)	392-83-6	94.2	1.0	%	E601.SG-L	20-Jun-2022	22-Jun-2022	527742
dichlorotoluene, 3,4-	97-75-0	99.1	1.0	%	E581.F1	16-Jun-2022	16-Jun-2022	526634

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

WT2205639-020

Sub-Matrix:**Soil** *Client sample ID:* S-12581540-220613-JB-BH11-22-0.0-0.6

(Matrix: **Soil/Solid**) *Client sampling date / time:* 13-Jun-2022 09:13

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Physical Tests								
conductivity (1:2 leachate)	----	0.678	0.00500	mS/cm	E100-L	20-Jun-2022	21-Jun-2022	526293
moisture	----	6.62	0.25	%	E144	-	16-Jun-2022	526200
pH (1:2 soil:CaCl2-aq)	----	9.53	0.10	pH units	E108A	16-Jun-2022	17-Jun-2022	526568
Cyanides								
cyanide, weak acid dissociable	----	<0.050	0.050	mg/kg	E336A	16-Jun-2022	17-Jun-2022	526403
Saturated Paste Extractables								
calcium, soluble ion content	7440-70-2	8.05	0.50	mg/L	E484	20-Jun-2022	21-Jun-2022	526295
magnesium, soluble ion content	7439-95-4	0.59	0.50	mg/L	E484	20-Jun-2022	21-Jun-2022	526295
sodium, soluble ion content	17341-25-2	130	0.50	mg/L	E484	20-Jun-2022	21-Jun-2022	526295
sodium adsorption ratio [SAR]	----	11.9	0.10	-	E484	20-Jun-2022	21-Jun-2022	526295
Metals								
antimony	7440-36-0	1.02	0.10	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
arsenic	7440-38-2	7.06	0.10	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
barium	7440-39-3	137	0.50	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
beryllium	7440-41-7	0.42	0.10	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
boron	7440-42-8	18.4	5.0	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
boron, hot water soluble	7440-42-8	1.57	0.10	mg/kg	E487	20-Jun-2022	20-Jun-2022	526296
cadmium	7440-43-9	1.33	0.020	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
chromium	7440-47-3	98.1	0.50	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
cobalt	7440-48-4	6.82	0.10	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
copper	7440-50-8	37.0	0.50	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
lead	7439-92-1	115	0.50	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
mercury	7439-97-6	0.0599	0.0050	mg/kg	E510	20-Jun-2022	20-Jun-2022	526291
molybdenum	7439-98-7	3.28	0.10	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
nickel	7440-02-0	18.9	0.50	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
selenium	7782-49-2	0.30	0.20	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
silver	7440-22-4	<0.10	0.50	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292

Analytical Results

WT2205639-020

Sub-Matrix: **Soil**
(Matrix: **Soil/Solid**)

Client sample ID: S-12581540-220613-JB-BH11-22-0.0-0.6
Client sampling date / time: 13-Jun-2022 09:13

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Metals								
thallium	7440-28-0	0.121	0.050	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
uranium	7440-61-1	0.930	0.050	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
vanadium	7440-62-2	42.6	0.20	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
zinc	7440-66-6	472	2.0	mg/kg	E440	20-Jun-2022	20-Jun-2022	526292
Speciated Metals								
chromium, hexavalent [Cr VI]	18540-29-9	0.42	0.10	mg/kg	E532	16-Jun-2022	17-Jun-2022	526326
Volatile Organic Compounds								
acetone	67-64-1	<0.50	0.50	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
benzene	71-43-2	<0.0050	0.0050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
bromodichloromethane	75-27-4	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
bromoform	75-25-2	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
bromomethane	74-83-9	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
carbon tetrachloride	56-23-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
chlorobenzene	108-90-7	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
chloroform	67-66-3	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dibromochloromethane	124-48-1	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dibromoethane, 1,2-	106-93-4	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichlorobenzene, 1,2-	95-50-1	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichlorobenzene, 1,3-	541-73-1	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichlorobenzene, 1,4-	106-46-7	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichlorodifluoromethane	75-71-8	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloroethane, 1,1-	75-34-3	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloroethane, 1,2-	107-06-2	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloroethylene, 1,1-	75-35-4	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloroethylene, cis-1,2-	156-59-2	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloroethylene, trans-1,2-	156-60-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloromethane	75-09-2	<0.045	0.045	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloropropane, 1,2-	78-87-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloropropylene, cis+trans-1,3-	542-75-6	<0.050	0.05	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloropropylene, cis-1,3-	10061-01-5	<0.030	0.030	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloropropylene, trans-1,3-	10061-02-6	<0.030	0.030	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
ethylbenzene	100-41-4	0.016	0.015	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
hexane, n-	110-54-3	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
methyl ethyl ketone [MEK]	78-93-3	<0.50	0.50	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
methyl isobutyl ketone [MIBK]	108-10-1	<0.50	0.50	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
methyl-tert-butyl ether [MTBE]	1634-04-4	<0.040	0.040	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
styrene	100-42-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
tetrachloroethane, 1,1,1,2-	630-20-6	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
tetrachloroethane, 1,1,2,2-	79-34-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
tetrachloroethylene	127-18-4	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
toluene	108-88-3	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
trichloroethane, 1,1,1-	71-55-6	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
trichloroethane, 1,1,2-	79-00-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
trichloroethylene	79-01-6	<0.010	0.010	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
trichlorofluoromethane	75-69-4	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
vinyl chloride	75-01-4	<0.020	0.020	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
xylene, m+p-	179601-23-1	<0.030	0.030	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
xylene, o-	95-47-6	<0.030	0.030	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635

Analytical Results

WT2205639-020

Sub-Matrix: **Soil**
(Matrix: **Soil/Solid**)

Client sample ID: S-12581540-220613-JB-BH11-22-0.0-0.6
Client sampling date / time: 13-Jun-2022 09:13

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
xylenes, total	1330-20-7	<0.050	0.05	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
BTEX, total	----	<0.10	0.1	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
Volatile Organic Compounds Surrogates								
bromofluorobenzene, 4-	460-00-4	67.0	0.10	%	E611D	16-Jun-2022	16-Jun-2022	526635
difluorobenzene, 1,4-	540-36-3	81.3	0.10	%	E611D	16-Jun-2022	16-Jun-2022	526635
Hydrocarbons								
F1 (C6-C10)	----	<5.0	5.0	mg/kg	E581.F1	16-Jun-2022	16-Jun-2022	526634
F2 (C10-C16)	----	<10	66	mg/kg	E601.SG-L	20-Jun-2022	22-Jun-2022	527742
F2-naphthalene	----	<25	66	mg/kg	EC600	-	18-Jun-2022	-
F3 (C16-C34)	----	1120	199	mg/kg	E601.SG-L	20-Jun-2022	22-Jun-2022	527742
F3-PAH	n/a	954	199	mg/kg	EC600	-	18-Jun-2022	-
F4 (C34-C50)	----	2660	199	mg/kg	E601.SG-L	20-Jun-2022	22-Jun-2022	527742
F4G-sg	----	8590	250	mg/kg	E601.F4G-L	22-Jun-2022	22-Jun-2022	533665
F1-BTEX	----	<5.0	5	mg/kg	EC580	-	17-Jun-2022	-
hydrocarbons, total (C6-C50)	----	3780	289	mg/kg	EC581	-	17-Jun-2022	-
chromatogram to baseline at nC50	n/a	NO	-	-	E601.SG-L	20-Jun-2022	22-Jun-2022	527742
Hydrocarbons Surrogates								
bromobenzotrifluoride, 2- (F2-F4 surr)	392-83-6	81.2	8.3	%	E601.SG-L	20-Jun-2022	22-Jun-2022	527742
dichlorotoluene, 3,4-	97-75-0	63.1	1.0	%	E581.F1	16-Jun-2022	16-Jun-2022	526634
Polycyclic Aromatic Hydrocarbons								
acenaphthene	83-32-9	1.96	0.050	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
acenaphthylene	208-96-8	0.570	0.050	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
anthracene	120-12-7	8.21	0.050	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
benz(a)anthracene	56-55-3	17.6	0.050	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
benzo(a)pyrene	50-32-8	14.8	0.050	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
benzo(b+j)fluoranthene	n/a	15.8	0.050	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
benzo(g,h,i)perylene	191-24-2	6.16	0.050	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
benzo(k)fluoranthene	207-08-9	8.73	0.050	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
chrysene	218-01-9	15.4	0.050	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
dibenz(a,h)anthracene	53-70-3	2.28	0.050	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
fluoranthene	206-44-0	39.1	0.050	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
fluorene	86-73-7	3.74	0.050	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
indeno(1,2,3-c,d)pyrene	193-39-5	7.76	0.050	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
methylnaphthalene, 1-	90-12-0	0.670	0.030	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
methylnaphthalene, 1+2-	----	1.29	0.05	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
methylnaphthalene, 2-	91-57-6	0.618	0.030	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
naphthalene	91-20-3	0.958	0.020	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
phenanthrene	85-01-8	30.7	0.050	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
pyrene	129-00-0	29.6	0.050	mg/kg	E642F	16-Jun-2022	17-Jun-2022	526650
Polycyclic Aromatic Hydrocarbons Surrogates								
fluorobiphenyl, 2-	321-60-8	70.8	0.1	%	E642F	16-Jun-2022	17-Jun-2022	526650
terphenyl-d14, p-	1718-51-0	86.6	0.1	%	E642F	16-Jun-2022	17-Jun-2022	526650
Polychlorinated Biphenyls								
Aroclor 1016	12674-11-2	<0.010	0.010	mg/kg	E687	16-Jun-2022	17-Jun-2022	526651
Aroclor 1221	11104-28-2	<0.010	0.010	mg/kg	E687	16-Jun-2022	17-Jun-2022	526651
Aroclor 1232	11141-16-5	<0.010	0.010	mg/kg	E687	16-Jun-2022	17-Jun-2022	526651
Aroclor 1242	53469-21-9	<0.010	0.010	mg/kg	E687	16-Jun-2022	17-Jun-2022	526651
Aroclor 1248	12672-29-6	<0.010	0.010	mg/kg	E687	16-Jun-2022	17-Jun-2022	526651

Analytical Results

WT2205639-020

Sub-Matrix: **Soil** (Matrix: **Soil/Solid**)

Client sample ID: S-12581540-220613-JB-BH11-22-0.0-0.6

Client sampling date / time: 13-Jun-2022 09:13

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Polychlorinated Biphenyls								
Aroclor 1254	11097-69-1	0.055	0.010	mg/kg	E687	16-Jun-2022	17-Jun-2022	526651
Aroclor 1260	11096-82-5	0.051	0.010	mg/kg	E687	16-Jun-2022	17-Jun-2022	526651
Aroclor 1262	37324-23-5	<0.010	0.010	mg/kg	E687	16-Jun-2022	17-Jun-2022	526651
Aroclor 1268	11100-14-4	<0.010	0.010	mg/kg	E687	16-Jun-2022	17-Jun-2022	526651
polychlorinated biphenyls [PCBs], total	----	0.106	0.030	mg/kg	E687	16-Jun-2022	17-Jun-2022	526651
Polychlorinated Biphenyls Surrogates								
fluorobiphenyl, 2-	321-60-8	88.4	0.1	%	E687	16-Jun-2022	17-Jun-2022	526651
terphenyl-d14, p-	1718-51-0	90.4	0.010	%	E687	16-Jun-2022	17-Jun-2022	526651

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

WT2205639-021

Sub-Matrix: **Soil** (Matrix: **Soil/Solid**)

Client sample ID: S-12581540-220613-JB-BH11-22-1.5-2.1

Client sampling date / time: 13-Jun-2022 09:26

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Physical Tests								
moisture	----	12.8	0.25	%	E144	-	16-Jun-2022	526200
Volatile Organic Compounds								
acetone	67-64-1	<0.50	0.50	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
benzene	71-43-2	<0.0050	0.0050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
bromodichloromethane	75-27-4	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
bromoform	75-25-2	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
bromomethane	74-83-9	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
carbon tetrachloride	56-23-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
chlorobenzene	108-90-7	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
chloroform	67-66-3	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dibromochloromethane	124-48-1	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dibromoethane, 1,2-	106-93-4	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichlorobenzene, 1,2-	95-50-1	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichlorobenzene, 1,3-	541-73-1	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichlorobenzene, 1,4-	106-46-7	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichlorodifluoromethane	75-71-8	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloroethane, 1,1-	75-34-3	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloroethane, 1,2-	107-06-2	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloroethylene, 1,1-	75-35-4	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloroethylene, cis-1,2-	156-59-2	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloroethylene, trans-1,2-	156-60-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloromethane	75-09-2	<0.045	0.045	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloropropane, 1,2-	78-87-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloropropylene, cis+trans-1,3-	542-75-6	<0.050	0.05	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloropropylene, cis-1,3-	10061-01-5	<0.030	0.030	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
dichloropropylene, trans-1,3-	10061-02-6	<0.030	0.030	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
ethylbenzene	100-41-4	<0.015	0.015	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
hexane, n-	110-54-3	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
methyl ethyl ketone [MEK]	78-93-3	<0.50	0.50	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635

Analytical Results

WT2205639-021

Sub-Matrix: **Soil**
(Matrix: **Soil/Solid**)

Client sample ID: S-12581540-220613-JB-BH11-22-1.5-2.1
Client sampling date / time: 13-Jun-2022 09:26

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
methyl isobutyl ketone [MIBK]	108-10-1	<0.50	0.50	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
methyl-tert-butyl ether [MTBE]	1634-04-4	<0.040	0.040	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
styrene	100-42-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
tetrachloroethane, 1,1,1,2-	630-20-6	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
tetrachloroethane, 1,1,2,2-	79-34-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
tetrachloroethylene	127-18-4	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
toluene	108-88-3	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
trichloroethane, 1,1,1-	71-55-6	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
trichloroethane, 1,1,2-	79-00-5	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
trichloroethylene	79-01-6	<0.010	0.010	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
trichlorofluoromethane	75-69-4	<0.050	0.050	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
vinyl chloride	75-01-4	<0.020	0.020	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
xylene, m+p-	179601-23-1	<0.030	0.030	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
xylene, o-	95-47-6	<0.030	0.030	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
xylenes, total	1330-20-7	<0.050	0.05	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
BTEX, total	----	<0.10	0.1	mg/kg	E611D	16-Jun-2022	16-Jun-2022	526635
Volatile Organic Compounds Surrogates								
bromofluorobenzene, 4-	460-00-4	71.7	0.10	%	E611D	16-Jun-2022	16-Jun-2022	526635
difluorobenzene, 1,4-	540-36-3	85.1	0.10	%	E611D	16-Jun-2022	16-Jun-2022	526635
Hydrocarbons								
F1 (C6-C10)	----	<5.0	5.0	mg/kg	E581.F1	16-Jun-2022	16-Jun-2022	526634
F2 (C10-C16)	----	<10 DLM,	62	mg/kg	E601.SG-L	20-Jun-2022	22-Jun-2022	527742
F3 (C16-C34)	----	1190	187	mg/kg	E601.SG-L	20-Jun-2022	22-Jun-2022	527742
F4 (C34-C50)	----	2600	187	mg/kg	E601.SG-L	20-Jun-2022	22-Jun-2022	527742
F4G-sg	----	8180	250	mg/kg	E601.F4G-L	22-Jun-2022	22-Jun-2022	533665
F1-BTEX	----	<5.0	5	mg/kg	EC580	-	17-Jun-2022	-
hydrocarbons, total (C6-C50)	----	3790	272	mg/kg	EC581	-	17-Jun-2022	-
chromatogram to baseline at nC50	n/a	NO	-	-	E601.SG-L	20-Jun-2022	22-Jun-2022	527742
Hydrocarbons Surrogates								
bromobenzotrifluoride, 2- (F2-F4 surr)	392-83-6	83.8	7.8	%	E601.SG-L	20-Jun-2022	22-Jun-2022	527742
dichlorotoluene, 3,4-	97-75-0	105	1.0	%	E581.F1	16-Jun-2022	16-Jun-2022	526634

Please refer to the General Comments section for an explanation of any qualifiers detected.

QUALITY CONTROL INTERPRETIVE REPORT

Work Order	: **WT2205639**	Page	: 1 of 30
Amendment	: 1		
Client	: **GHD Limited**	Laboratory	: Waterloo - Environmental
Contact	: Jennifer Balkwill	Account Manager	: Rick Hawthorne
Address	: 455 Phillip Street Waterloo ON Canada N2L 3X2	Address	: 60 Northland Road, Unit 1 Waterloo, Ontario Canada N2V 2B8
Telephone	: ----	Telephone	: +1 519 886 6910
Project	: 12581540	Date Samples Received	: 15-Jun-2022 14:40
PO	: 735-003274	Issue Date	: 23-Jun-2022 17:03
C-O-C number	: ----		
Sampler	: Jeffrey Bisson		
Site	: ----		
Quote number	: 12581540 - City of Mississauga		
No. of samples received	: 21		
No. of samples analysed	: 21		

This report is automatically generated by the ALS LIMS (Laboratory Information Management System) through evaluation of Quality Control (QC) results and other QA parameters associated with this submission, and is intended to facilitate rapid data validation by auditors or reviewers. The report highlights any exceptions and outliers to ALS Data Quality Objectives, provides holding time details and exceptions, summarizes QC sample frequencies, and lists applicable methodology references and summaries.

Key

Anonymous: Refers to samples which are not part of this work order, but which formed part of the QC process lot.
CAS Number: Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
DQO: Data Quality Objective.
LOR: Limit of Reporting (detection limit).
RPD: Relative Percent Difference.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Summary of Outliers

Outliers : Quality Control Samples

- No Method Blank value outliers occur.
- No Matrix Spike outliers occur.
- Duplicate outliers occur - please see following pages for full details.
- Laboratory Control Sample (LCS) outliers occur - please see following pages for full details.
- No Test sample Surrogate recovery outliers exist.

Outliers: Reference Material (RM) Samples

- No Reference Material (RM) Sample outliers occur.

Outliers : Analysis Holding Time Compliance (Breaches)

- No Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

- No Quality Control Sample Frequency Outliers occur.

Outliers : Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: **Soil/Solid**

Analyte Group	Laboratory sample ID	Client/Ref Sample ID	Analyte	CAS Number	Method	Result	Limits	Comment
Duplicate (DUP) RPDs								
Metals	WT2205639-001	S-12581540-220614-JB-BH2-22-0.0-0.3	mercury	7439-97-6	E510	0.0102 % DUP-H	Diff <2x LOR	Low Level DUP DQO exceeded (difference > 2 LOR).

Result Qualifiers

Qualifier	Description
DUP-H	*Duplicate results outside ALS DQO, due to sample heterogeneity.*

Laboratory Control Sample (LCS) Recoveries								
Metals	QC-MRG2-526291002	----	silver	7440-22-4	E440	77.0 % MES	80.0-120%	Recovery less than lower control limit
Volatile Organic Compounds	QC-MRG2-526634002	----	dichloropropylene, trans-1,3-	10061-02-6	E611D	46.4 % LCS-L	70.0-130%	Recovery less than lower control limit

Result Qualifiers

Qualifier	Description
LCS-L	*Lab Control Sample recovery was below ALS DQO. Reference Material and/or Matrix Spike results were acceptable. Non-detected sample results are considered reliable. Other results, if reported, have been qualified.*
MES	*Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).*

Analysis Holding Time Compliance

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times, which are selected to meet known provincial and /or federal requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by organizations such as CCME, US EPA, APHA Standard Methods, ASTM, or Environment Canada (where available). Dates and holding times reported below represent the first dates of extraction or analysis. If subsequent tests or dilutions exceeded holding times, qualifiers are added (refer to COA).

If samples are identified below as having been analyzed or extracted outside of recommended holding times, measurement uncertainties may be increased, and this should be taken into consideration when interpreting results.

Where actual sampling date is not provided on the chain of custody, the date of receipt with time at 00:00 is used for calculation purposes.

Where only the sample date without time is provided on the chain of custody, the sampling date at 00:00 is used for calculation purposes.

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Cyanides : WAD Cyanide (0.01M NaOH Extraction)										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-BH2-22-0.0-0.3	E336A	14-Jun-2022	16-Jun-2022	14 days	2 days	✓	17-Jun-2022	14 days	1 days	✓
Cyanides : WAD Cyanide (0.01M NaOH Extraction)										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-BH3-22-0.0-0.6	E336A	14-Jun-2022	16-Jun-2022	14 days	2 days	✓	17-Jun-2022	14 days	1 days	✓
Cyanides : WAD Cyanide (0.01M NaOH Extraction)										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-BH3-22-0.0-0.6X	E336A	14-Jun-2022	16-Jun-2022	14 days	2 days	✓	17-Jun-2022	14 days	1 days	✓
Cyanides : WAD Cyanide (0.01M NaOH Extraction)										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-BH4-22-0.0-0.6	E336A	14-Jun-2022	16-Jun-2022	14 days	2 days	✓	17-Jun-2022	14 days	1 days	✓
Cyanides : WAD Cyanide (0.01M NaOH Extraction)										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-BH5-22-0.0-0.6	E336A	14-Jun-2022	16-Jun-2022	14 days	2 days	✓	17-Jun-2022	14 days	1 days	✓
Cyanides : WAD Cyanide (0.01M NaOH Extraction)										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-BH6-22-0.0-0.6	E336A	14-Jun-2022	16-Jun-2022	14 days	2 days	✓	17-Jun-2022	14 days	1 days	✓
Cyanides : WAD Cyanide (0.01M NaOH Extraction)										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-BH8-22-0.0-0.6	E336A	14-Jun-2022	16-Jun-2022	14 days	2 days	✓	17-Jun-2022	14 days	1 days	✓

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Cyanides : WAD Cyanide (0.01M NaOH Extraction)										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-BH9-22-0.0-0.6	E336A	14-Jun-2022	16-Jun-2022	14 days	2 days	✓	17-Jun-2022	14 days	1 days	✓
Cyanides : WAD Cyanide (0.01M NaOH Extraction)										
Glass soil jar/Teflon lined cap										
S-12581540-220613-JB-BH10-22-0.0-0.6	E336A	13-Jun-2022	16-Jun-2022	14 days	3 days	✓	17-Jun-2022	14 days	1 days	✓
Cyanides : WAD Cyanide (0.01M NaOH Extraction)										
Glass soil jar/Teflon lined cap										
S-12581540-220613-JB-BH11-22-0.0-0.6	E336A	13-Jun-2022	16-Jun-2022	14 days	3 days	✓	17-Jun-2022	14 days	1 days	✓
Cyanides : WAD Cyanide (0.01M NaOH Extraction)										
Glass soil jar/Teflon lined cap										
S-12581540-220613-JB-BH1-22-0.0-0.6	E336A	13-Jun-2022	16-Jun-2022	14 days	3 days	✓	17-Jun-2022	14 days	1 days	✓
Cyanides : WAD Cyanide (0.01M NaOH Extraction)										
Glass soil jar/Teflon lined cap										
S-12581540-220613-JB-BH7-22-0.0-0.6	E336A	13-Jun-2022	16-Jun-2022	14 days	3 days	✓	17-Jun-2022	14 days	1 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial [ON MECP]										
S-12581540-220614-JB-BH2-22-0.0-0.3	E581.F1	14-Jun-2022	16-Jun-2022	14 days	2 days	✓	16-Jun-2022	40 days	0 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial [ON MECP]										
S-12581540-220614-JB-BH3-22-0.0-0.6	E581.F1	14-Jun-2022	16-Jun-2022	14 days	2 days	✓	16-Jun-2022	40 days	0 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial [ON MECP]										
S-12581540-220614-JB-BH4-22-0.0-0.6	E581.F1	14-Jun-2022	16-Jun-2022	14 days	2 days	✓	16-Jun-2022	40 days	0 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial [ON MECP]										
S-12581540-220614-JB-BH5-22-0.0-0.6	E581.F1	14-Jun-2022	16-Jun-2022	14 days	2 days	✓	16-Jun-2022	40 days	0 days	✓

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial [ON MECP] S-12581540-220614-JB-BH6-22-0.0-0.6	E581.F1	14-Jun-2022	16-Jun-2022	14 days	2 days	✓	16-Jun-2022	40 days	0 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial [ON MECP] S-12581540-220614-JB-BH8-22-0.0-0.6	E581.F1	14-Jun-2022	16-Jun-2022	14 days	2 days	✓	16-Jun-2022	40 days	0 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial [ON MECP] S-12581540-220614-JB-BH9-22-0.0-0.6	E581.F1	14-Jun-2022	16-Jun-2022	14 days	2 days	✓	16-Jun-2022	40 days	0 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial [ON MECP] S-12581540-220614-JB-BH9-22-0.0-0.6X	E581.F1	14-Jun-2022	16-Jun-2022	14 days	2 days	✓	16-Jun-2022	40 days	0 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial [ON MECP] S-12581540-220614-JB-TRIP BLANK	E581.F1	14-Jun-2022	16-Jun-2022	14 days	2 days	✓	16-Jun-2022	40 days	0 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial [ON MECP] S-12581540-220613-JB-BH10-22-0.0-0.6	E581.F1	13-Jun-2022	16-Jun-2022	14 days	3 days	✓	16-Jun-2022	40 days	0 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial [ON MECP] S-12581540-220613-JB-BH10-22-1.5-1.8	E581.F1	13-Jun-2022	16-Jun-2022	14 days	3 days	✓	16-Jun-2022	40 days	0 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial [ON MECP] S-12581540-220613-JB-BH10-22-1.5-1.8X	E581.F1	13-Jun-2022	16-Jun-2022	14 days	3 days	✓	16-Jun-2022	40 days	0 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial [ON MECP] S-12581540-220613-JB-BH11-22-0.0-0.6	E581.F1	13-Jun-2022	16-Jun-2022	14 days	3 days	✓	16-Jun-2022	40 days	0 days	✓

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial [ON MECP] S-12581540-220613-JB-BH11-22-1.5-2.1	E581.F1	13-Jun-2022	16-Jun-2022	14 days	3 days	✓	16-Jun-2022	40 days	0 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial [ON MECP] S-12581540-220613-JB-BH1-22-0.0-0.6	E581.F1	13-Jun-2022	16-Jun-2022	14 days	3 days	✓	16-Jun-2022	40 days	0 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial [ON MECP] S-12581540-220613-JB-BH7-22-0.0-0.6	E581.F1	13-Jun-2022	16-Jun-2022	14 days	3 days	✓	16-Jun-2022	40 days	0 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial [ON MECP] S-12581540-220610-JB-BH12-22-0.05-0.6	E581.F1	10-Jun-2022	16-Jun-2022	14 days	6 days	✓	16-Jun-2022	40 days	0 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial [ON MECP] S-12581540-220610-JB-BH14-22-0.8-1.4	E581.F1	10-Jun-2022	16-Jun-2022	14 days	6 days	✓	16-Jun-2022	40 days	0 days	✓
Hydrocarbons : CCME PHCs - F4G by Gravimetry (Low Level)										
Glass soil jar/Teflon lined cap S-12581540-220614-JB-BH2-22-0.0-0.3	E601.F4G-L	14-Jun-2022	22-Jun-2022	14 days	8 days	✓	22-Jun-2022	40 days	0 days	✓
Hydrocarbons : CCME PHCs - F4G by Gravimetry (Low Level)										
Glass soil jar/Teflon lined cap S-12581540-220614-JB-BH4-22-0.0-0.6	E601.F4G-L	14-Jun-2022	22-Jun-2022	14 days	8 days	✓	22-Jun-2022	40 days	0 days	✓
Hydrocarbons : CCME PHCs - F4G by Gravimetry (Low Level)										
Glass soil jar/Teflon lined cap S-12581540-220614-JB-BH5-22-0.0-0.6	E601.F4G-L	14-Jun-2022	22-Jun-2022	14 days	8 days	✓	22-Jun-2022	40 days	0 days	✓
Hydrocarbons : CCME PHCs - F4G by Gravimetry (Low Level)										
Glass soil jar/Teflon lined cap S-12581540-220614-JB-BH6-22-0.0-0.6	E601.F4G-L	14-Jun-2022	22-Jun-2022	14 days	8 days	✓	22-Jun-2022	40 days	0 days	✓

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Hydrocarbons : CCME PHCs - F4G by Gravimetry (Low Level)										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-BH8-22-0.0-0.6	E601.F4G-L	14-Jun-2022	22-Jun-2022	14 days	8 days	✓	22-Jun-2022	40 days	0 days	✓
Hydrocarbons : CCME PHCs - F4G by Gravimetry (Low Level)										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-BH9-22-0.0-0.6	E601.F4G-L	14-Jun-2022	22-Jun-2022	14 days	8 days	✓	22-Jun-2022	40 days	0 days	✓
Hydrocarbons : CCME PHCs - F4G by Gravimetry (Low Level)										
Glass soil jar/Teflon lined cap										
S-12581540-220613-JB-BH10-22-0.0-0.6	E601.F4G-L	13-Jun-2022	22-Jun-2022	14 days	9 days	✓	22-Jun-2022	40 days	0 days	✓
Hydrocarbons : CCME PHCs - F4G by Gravimetry (Low Level)										
Glass soil jar/Teflon lined cap										
S-12581540-220613-JB-BH11-22-0.0-0.6	E601.F4G-L	13-Jun-2022	22-Jun-2022	14 days	9 days	✓	22-Jun-2022	40 days	0 days	✓
Hydrocarbons : CCME PHCs - F4G by Gravimetry (Low Level)										
Glass soil jar/Teflon lined cap										
S-12581540-220613-JB-BH11-22-1.5-2.1	E601.F4G-L	13-Jun-2022	22-Jun-2022	14 days	9 days	✓	22-Jun-2022	40 days	0 days	✓
Hydrocarbons : CCME PHCs - F4G by Gravimetry (Low Level)										
Glass soil jar/Teflon lined cap										
S-12581540-220613-JB-BH1-22-0.0-0.6	E601.F4G-L	13-Jun-2022	22-Jun-2022	14 days	9 days	✓	22-Jun-2022	40 days	0 days	✓
Hydrocarbons : CCME PHCs - F4G by Gravimetry (Low Level)										
Glass soil jar/Teflon lined cap										
S-12581540-220613-JB-BH7-22-0.0-0.6	E601.F4G-L	13-Jun-2022	22-Jun-2022	14 days	9 days	✓	22-Jun-2022	40 days	0 days	✓
Hydrocarbons : CCME PHCs - F4G by Gravimetry (Low Level)										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-BH3-22-0.0-0.6	E601.F4G-L	14-Jun-2022	23-Jun-2022	14 days	9 days	✓	23-Jun-2022	40 days	0 days	✓
Hydrocarbons : CCME PHCs - F4G by Gravimetry (Low Level)										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-BH9-22-0.0-0.6X	E601.F4G-L	14-Jun-2022	23-Jun-2022	14 days	9 days	✓	23-Jun-2022	40 days	0 days	✓

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID (Low Level)										
Glass soil jar/Teflon lined cap										
S-12581540-220610-JB-BH12-22-0.05-0.6	E601.SG-L	10-Jun-2022	20-Jun-2022	14 days	10 days	✓	22-Jun-2022	40 days	2 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID (Low Level)										
Glass soil jar/Teflon lined cap										
S-12581540-220610-JB-BH14-22-0.8-1.4	E601.SG-L	10-Jun-2022	20-Jun-2022	14 days	10 days	✓	22-Jun-2022	40 days	2 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID (Low Level)										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-BH2-22-0.0-0.3	E601.SG-L	14-Jun-2022	20-Jun-2022	14 days	6 days	✓	22-Jun-2022	40 days	2 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID (Low Level)										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-BH6-22-0.0-0.6	E601.SG-L	14-Jun-2022	20-Jun-2022	14 days	6 days	✓	22-Jun-2022	40 days	2 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID (Low Level)										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-BH8-22-0.0-0.6	E601.SG-L	14-Jun-2022	20-Jun-2022	14 days	6 days	✓	22-Jun-2022	40 days	2 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID (Low Level)										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-BH9-22-0.0-0.6	E601.SG-L	14-Jun-2022	20-Jun-2022	14 days	6 days	✓	22-Jun-2022	40 days	2 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID (Low Level)										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-BH9-22-0.0-0.6X	E601.SG-L	14-Jun-2022	21-Jun-2022	14 days	6 days	✓	23-Jun-2022	40 days	2 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID (Low Level)										
Glass soil jar/Teflon lined cap										
S-12581540-220613-JB-BH10-22-0.0-0.6	E601.SG-L	13-Jun-2022	20-Jun-2022	14 days	7 days	✓	22-Jun-2022	40 days	2 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID (Low Level)										
Glass soil jar/Teflon lined cap										
S-12581540-220613-JB-BH10-22-1.5-1.8	E601.SG-L	13-Jun-2022	20-Jun-2022	14 days	7 days	✓	22-Jun-2022	40 days	2 days	✓

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID (Low Level)										
Glass soil jar/Teflon lined cap										
S-12581540-220613-JB-BH10-22-1.5-1.8X	E601.SG-L	13-Jun-2022	20-Jun-2022	14 days	7 days	✓	22-Jun-2022	40 days	2 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID (Low Level)										
Glass soil jar/Teflon lined cap										
S-12581540-220613-JB-BH1-22-0.0-0.6	E601.SG-L	13-Jun-2022	20-Jun-2022	14 days	7 days	✓	22-Jun-2022	40 days	2 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID (Low Level)										
Glass soil jar/Teflon lined cap										
S-12581540-220613-JB-BH7-22-0.0-0.6	E601.SG-L	13-Jun-2022	20-Jun-2022	14 days	7 days	✓	22-Jun-2022	40 days	2 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID (Low Level)										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-BH3-22-0.0-0.6	E601.SG-L	14-Jun-2022	21-Jun-2022	14 days	7 days	✓	23-Jun-2022	40 days	2 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID (Low Level)										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-BH4-22-0.0-0.6	E601.SG-L	14-Jun-2022	20-Jun-2022	14 days	7 days	✓	22-Jun-2022	40 days	2 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID (Low Level)										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-BH5-22-0.0-0.6	E601.SG-L	14-Jun-2022	20-Jun-2022	14 days	7 days	✓	22-Jun-2022	40 days	2 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID (Low Level)										
Glass soil jar/Teflon lined cap										
S-12581540-220613-JB-BH11-22-0.0-0.6	E601.SG-L	13-Jun-2022	20-Jun-2022	14 days	8 days	✓	22-Jun-2022	40 days	2 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID (Low Level)										
Glass soil jar/Teflon lined cap										
S-12581540-220613-JB-BH11-22-1.5-2.1	E601.SG-L	13-Jun-2022	20-Jun-2022	14 days	8 days	✓	22-Jun-2022	40 days	2 days	✓
Metals : Boron-Hot Water Extractable by ICPOES										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-BH2-22-0.0-0.3	E487	14-Jun-2022	20-Jun-2022	180 days	6 days	✓	20-Jun-2022	180 days	0 days	✓

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Metals : Boron-Hot Water Extractable by ICPOES										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-BH3-22-0.0-0.6	E487	14-Jun-2022	20-Jun-2022	180 days	6 days	✓	20-Jun-2022	180 days	0 days	✓
Metals : Boron-Hot Water Extractable by ICPOES										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-BH3-22-0.0-0.6X	E487	14-Jun-2022	20-Jun-2022	180 days	6 days	✓	20-Jun-2022	180 days	0 days	✓
Metals : Boron-Hot Water Extractable by ICPOES										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-BH4-22-0.0-0.6	E487	14-Jun-2022	20-Jun-2022	180 days	6 days	✓	20-Jun-2022	180 days	0 days	✓
Metals : Boron-Hot Water Extractable by ICPOES										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-BH5-22-0.0-0.6	E487	14-Jun-2022	20-Jun-2022	180 days	6 days	✓	20-Jun-2022	180 days	0 days	✓
Metals : Boron-Hot Water Extractable by ICPOES										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-BH6-22-0.0-0.6	E487	14-Jun-2022	20-Jun-2022	180 days	6 days	✓	20-Jun-2022	180 days	0 days	✓
Metals : Boron-Hot Water Extractable by ICPOES										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-BH8-22-0.0-0.6	E487	14-Jun-2022	20-Jun-2022	180 days	6 days	✓	20-Jun-2022	180 days	0 days	✓
Metals : Boron-Hot Water Extractable by ICPOES										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-BH9-22-0.0-0.6	E487	14-Jun-2022	20-Jun-2022	180 days	6 days	✓	20-Jun-2022	180 days	0 days	✓
Metals : Boron-Hot Water Extractable by ICPOES										
Glass soil jar/Teflon lined cap										
S-12581540-220613-JB-BH10-22-0.0-0.6	E487	13-Jun-2022	20-Jun-2022	180 days	7 days	✓	20-Jun-2022	180 days	0 days	✓
Metals : Boron-Hot Water Extractable by ICPOES										
Glass soil jar/Teflon lined cap										
S-12581540-220613-JB-BH11-22-0.0-0.6	E487	13-Jun-2022	20-Jun-2022	180 days	7 days	✓	20-Jun-2022	180 days	0 days	✓

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Metals : Boron-Hot Water Extractable by ICPOES										
Glass soil jar/Teflon lined cap										
S-12581540-220613-JB-BH1-22-0.0-0.6	E487	13-Jun-2022	20-Jun-2022	180 days	7 days	✓	20-Jun-2022	180 days	0 days	✓
Metals : Boron-Hot Water Extractable by ICPOES										
Glass soil jar/Teflon lined cap										
S-12581540-220613-JB-BH7-22-0.0-0.6	E487	13-Jun-2022	20-Jun-2022	180 days	7 days	✓	20-Jun-2022	180 days	0 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-BH2-22-0.0-0.3	E510	14-Jun-2022	20-Jun-2022	----	----		20-Jun-2022	28 days	6 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-BH3-22-0.0-0.6	E510	14-Jun-2022	20-Jun-2022	----	----		20-Jun-2022	28 days	6 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-BH3-22-0.0-0.6X	E510	14-Jun-2022	20-Jun-2022	----	----		20-Jun-2022	28 days	6 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-BH4-22-0.0-0.6	E510	14-Jun-2022	20-Jun-2022	----	----		20-Jun-2022	28 days	6 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-BH5-22-0.0-0.6	E510	14-Jun-2022	20-Jun-2022	----	----		20-Jun-2022	28 days	6 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-BH6-22-0.0-0.6	E510	14-Jun-2022	20-Jun-2022	----	----		20-Jun-2022	28 days	6 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-BH8-22-0.0-0.6	E510	14-Jun-2022	20-Jun-2022	----	----		20-Jun-2022	28 days	6 days	✓

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Metals : Mercury in Soil/Solid by CVAAS										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-BH9-22-0.0-0.6	E510	14-Jun-2022	20-Jun-2022	----	----		20-Jun-2022	28 days	6 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
Glass soil jar/Teflon lined cap										
S-12581540-220613-JB-BH10-22-0.0-0.6	E510	13-Jun-2022	20-Jun-2022	----	----		20-Jun-2022	28 days	7 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
Glass soil jar/Teflon lined cap										
S-12581540-220613-JB-BH11-22-0.0-0.6	E510	13-Jun-2022	20-Jun-2022	----	----		20-Jun-2022	28 days	7 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
Glass soil jar/Teflon lined cap										
S-12581540-220613-JB-BH1-22-0.0-0.6	E510	13-Jun-2022	20-Jun-2022	----	----		20-Jun-2022	28 days	7 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
Glass soil jar/Teflon lined cap										
S-12581540-220613-JB-BH7-22-0.0-0.6	E510	13-Jun-2022	20-Jun-2022	----	----		20-Jun-2022	28 days	7 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-BH2-22-0.0-0.3	E440	14-Jun-2022	20-Jun-2022	----	----		20-Jun-2022	180 days	6 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-BH3-22-0.0-0.6	E440	14-Jun-2022	20-Jun-2022	----	----		20-Jun-2022	180 days	6 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-BH3-22-0.0-0.6X	E440	14-Jun-2022	20-Jun-2022	----	----		20-Jun-2022	180 days	6 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-BH4-22-0.0-0.6	E440	14-Jun-2022	20-Jun-2022	----	----		20-Jun-2022	180 days	6 days	✓

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-BH5-22-0.0-0.6	E440	14-Jun-2022	20-Jun-2022	----	----		20-Jun-2022	180 days	6 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-BH6-22-0.0-0.6	E440	14-Jun-2022	20-Jun-2022	----	----		20-Jun-2022	180 days	6 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-BH8-22-0.0-0.6	E440	14-Jun-2022	20-Jun-2022	----	----		20-Jun-2022	180 days	6 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-BH9-22-0.0-0.6	E440	14-Jun-2022	20-Jun-2022	----	----		20-Jun-2022	180 days	6 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
S-12581540-220613-JB-BH10-22-0.0-0.6	E440	13-Jun-2022	20-Jun-2022	----	----		20-Jun-2022	180 days	7 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
S-12581540-220613-JB-BH11-22-0.0-0.6	E440	13-Jun-2022	20-Jun-2022	----	----		20-Jun-2022	180 days	7 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
S-12581540-220613-JB-BH1-22-0.0-0.6	E440	13-Jun-2022	20-Jun-2022	----	----		20-Jun-2022	180 days	7 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
S-12581540-220613-JB-BH7-22-0.0-0.6	E440	13-Jun-2022	20-Jun-2022	----	----		20-Jun-2022	180 days	7 days	✓
Physical Tests : Conductivity in Soil (1:2 Soil:Water Extraction) (Low Level)										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-BH2-22-0.0-0.3	E100-L	14-Jun-2022	20-Jun-2022	----	----		21-Jun-2022	30 days	7 days	✓

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Physical Tests : Conductivity in Soil (1:2 Soil:Water Extraction) (Low Level)										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-BH3-22-0.0-0.6	E100-L	14-Jun-2022	20-Jun-2022	----	----		21-Jun-2022	30 days	7 days	✓
Physical Tests : Conductivity in Soil (1:2 Soil:Water Extraction) (Low Level)										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-BH3-22-0.0-0.6X	E100-L	14-Jun-2022	20-Jun-2022	----	----		21-Jun-2022	30 days	7 days	✓
Physical Tests : Conductivity in Soil (1:2 Soil:Water Extraction) (Low Level)										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-BH4-22-0.0-0.6	E100-L	14-Jun-2022	20-Jun-2022	----	----		21-Jun-2022	30 days	7 days	✓
Physical Tests : Conductivity in Soil (1:2 Soil:Water Extraction) (Low Level)										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-BH5-22-0.0-0.6	E100-L	14-Jun-2022	20-Jun-2022	----	----		21-Jun-2022	30 days	7 days	✓
Physical Tests : Conductivity in Soil (1:2 Soil:Water Extraction) (Low Level)										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-BH6-22-0.0-0.6	E100-L	14-Jun-2022	20-Jun-2022	----	----		21-Jun-2022	30 days	7 days	✓
Physical Tests : Conductivity in Soil (1:2 Soil:Water Extraction) (Low Level)										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-BH8-22-0.0-0.6	E100-L	14-Jun-2022	20-Jun-2022	----	----		21-Jun-2022	30 days	7 days	✓
Physical Tests : Conductivity in Soil (1:2 Soil:Water Extraction) (Low Level)										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-BH9-22-0.0-0.6	E100-L	14-Jun-2022	20-Jun-2022	----	----		21-Jun-2022	30 days	7 days	✓
Physical Tests : Conductivity in Soil (1:2 Soil:Water Extraction) (Low Level)										
Glass soil jar/Teflon lined cap										
S-12581540-220613-JB-BH10-22-0.0-0.6	E100-L	13-Jun-2022	20-Jun-2022	----	----		21-Jun-2022	30 days	8 days	✓
Physical Tests : Conductivity in Soil (1:2 Soil:Water Extraction) (Low Level)										
Glass soil jar/Teflon lined cap										
S-12581540-220613-JB-BH11-22-0.0-0.6	E100-L	13-Jun-2022	20-Jun-2022	----	----		21-Jun-2022	30 days	8 days	✓

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Physical Tests : Conductivity in Soil (1:2 Soil:Water Extraction) (Low Level)										
Glass soil jar/Teflon lined cap										
S-12581540-220613-JB-BH1-22-0.0-0.6	E100-L	13-Jun-2022	20-Jun-2022	----	----		21-Jun-2022	30 days	8 days	✓
Physical Tests : Conductivity in Soil (1:2 Soil:Water Extraction) (Low Level)										
Glass soil jar/Teflon lined cap										
S-12581540-220613-JB-BH7-22-0.0-0.6	E100-L	13-Jun-2022	20-Jun-2022	----	----		21-Jun-2022	30 days	8 days	✓
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
S-12581540-220610-JB-BH12-22-0.05-0.6	E144	10-Jun-2022	----	----	----		17-Jun-2022	----	----	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
S-12581540-220610-JB-BH14-22-0.8-1.4	E144	10-Jun-2022	----	----	----		16-Jun-2022	----	----	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
S-12581540-220613-JB-BH10-22-0.0-0.6	E144	13-Jun-2022	----	----	----		16-Jun-2022	----	----	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
S-12581540-220613-JB-BH10-22-1.5-1.8	E144	13-Jun-2022	----	----	----		16-Jun-2022	----	----	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
S-12581540-220613-JB-BH10-22-1.5-1.8X	E144	13-Jun-2022	----	----	----		16-Jun-2022	----	----	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
S-12581540-220613-JB-BH11-22-0.0-0.6	E144	13-Jun-2022	----	----	----		16-Jun-2022	----	----	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
S-12581540-220613-JB-BH11-22-1.5-2.1	E144	13-Jun-2022	----	----	----		16-Jun-2022	----	----	

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
S-12581540-220613-JB-BH1-22-0.0-0.6	E144	13-Jun-2022	----	----	----		17-Jun-2022	----	----	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
S-12581540-220613-JB-BH7-22-0.0-0.6	E144	13-Jun-2022	----	----	----		19-Jun-2022	----	----	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-BH2-22-0.0-0.3	E144	14-Jun-2022	----	----	----		16-Jun-2022	----	----	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-BH3-22-0.0-0.6	E144	14-Jun-2022	----	----	----		16-Jun-2022	----	----	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-BH3-22-0.0-0.6X	E144	14-Jun-2022	----	----	----		16-Jun-2022	----	----	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-BH4-22-0.0-0.6	E144	14-Jun-2022	----	----	----		16-Jun-2022	----	----	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-BH4-22-0.0-0.6X	E144	14-Jun-2022	----	----	----		16-Jun-2022	----	----	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-BH5-22-0.0-0.6	E144	14-Jun-2022	----	----	----		16-Jun-2022	----	----	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-BH6-22-0.0-0.6	E144	14-Jun-2022	----	----	----		16-Jun-2022	----	----	

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-BH8-22-0.0-0.6	E144	14-Jun-2022	----	----	----		16-Jun-2022	----	----	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-BH8-22-0.0-0.6X	E144	14-Jun-2022	----	----	----		16-Jun-2022	----	----	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-BH9-22-0.0-0.6	E144	14-Jun-2022	----	----	----		16-Jun-2022	----	----	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-BH9-22-0.0-0.6X	E144	14-Jun-2022	----	----	----		16-Jun-2022	----	----	
Physical Tests : Moisture Content by Gravimetry										
Glass soil methanol vial [ON MECP]										
S-12581540-220614-JB-TRIP BLANK	E144	14-Jun-2022	----	----	----		16-Jun-2022	----	----	
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-BH2-22-0.0-0.3	E108A	14-Jun-2022	16-Jun-2022	----	----		17-Jun-2022	30 days	3 days	✓
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-BH3-22-0.0-0.6	E108A	14-Jun-2022	16-Jun-2022	----	----		17-Jun-2022	30 days	3 days	✓
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-BH3-22-0.0-0.6X	E108A	14-Jun-2022	16-Jun-2022	----	----		17-Jun-2022	30 days	3 days	✓
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-BH4-22-0.0-0.6	E108A	14-Jun-2022	16-Jun-2022	----	----		17-Jun-2022	30 days	3 days	✓

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-BH5-22-0.0-0.6	E108A	14-Jun-2022	16-Jun-2022	----	----		17-Jun-2022	30 days	3 days	✓
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-BH6-22-0.0-0.6	E108A	14-Jun-2022	16-Jun-2022	----	----		17-Jun-2022	30 days	3 days	✓
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-BH8-22-0.0-0.6	E108A	14-Jun-2022	16-Jun-2022	----	----		17-Jun-2022	30 days	3 days	✓
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-BH9-22-0.0-0.6	E108A	14-Jun-2022	16-Jun-2022	----	----		17-Jun-2022	30 days	3 days	✓
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received										
Glass soil jar/Teflon lined cap										
S-12581540-220613-JB-BH10-22-0.0-0.6	E108A	13-Jun-2022	16-Jun-2022	----	----		17-Jun-2022	30 days	4 days	✓
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received										
Glass soil jar/Teflon lined cap										
S-12581540-220613-JB-BH11-22-0.0-0.6	E108A	13-Jun-2022	16-Jun-2022	----	----		17-Jun-2022	30 days	4 days	✓
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received										
Glass soil jar/Teflon lined cap										
S-12581540-220613-JB-BH1-22-0.0-0.6	E108A	13-Jun-2022	16-Jun-2022	----	----		17-Jun-2022	30 days	4 days	✓
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received										
Glass soil jar/Teflon lined cap										
S-12581540-220613-JB-BH7-22-0.0-0.6	E108A	13-Jun-2022	16-Jun-2022	----	----		17-Jun-2022	30 days	4 days	✓
Polychlorinated Biphenyls : PCB Aroclors by GC-MS										
Glass soil jar/Teflon lined cap										
S-12581540-220613-JB-BH11-22-0.0-0.6	E687	13-Jun-2022	16-Jun-2022	----	----		17-Jun-2022	40 days	1 days	✓

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Polychlorinated Biphenyls : PCB Aroclors by GC-MS										
Glass soil jar/Teflon lined cap										
S-12581540-220613-JB-BH7-22-0.0-0.6	E687	13-Jun-2022	16-Jun-2022	----	----		17-Jun-2022	40 days	1 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by MeOH:Tol GC-MS										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-BH4-22-0.0-0.6	E642F	14-Jun-2022	16-Jun-2022	14 days	2 days	✓	17-Jun-2022	40 days	1 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by MeOH:Tol GC-MS										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-BH4-22-0.0-0.6X	E642F	14-Jun-2022	16-Jun-2022	14 days	2 days	✓	17-Jun-2022	40 days	1 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by MeOH:Tol GC-MS										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-BH5-22-0.0-0.6	E642F	14-Jun-2022	16-Jun-2022	14 days	2 days	✓	17-Jun-2022	40 days	1 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by MeOH:Tol GC-MS										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-BH8-22-0.0-0.6	E642F	14-Jun-2022	16-Jun-2022	14 days	2 days	✓	17-Jun-2022	40 days	1 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by MeOH:Tol GC-MS										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-BH8-22-0.0-0.6X	E642F	14-Jun-2022	16-Jun-2022	14 days	2 days	✓	17-Jun-2022	40 days	1 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by MeOH:Tol GC-MS										
Glass soil jar/Teflon lined cap										
S-12581540-220613-JB-BH10-22-0.0-0.6	E642F	13-Jun-2022	16-Jun-2022	14 days	3 days	✓	17-Jun-2022	40 days	1 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by MeOH:Tol GC-MS										
Glass soil jar/Teflon lined cap										
S-12581540-220613-JB-BH11-22-0.0-0.6	E642F	13-Jun-2022	16-Jun-2022	14 days	3 days	✓	17-Jun-2022	40 days	1 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by MeOH:Tol GC-MS										
Glass soil jar/Teflon lined cap										
S-12581540-220613-JB-BH1-22-0.0-0.6	E642F	13-Jun-2022	16-Jun-2022	14 days	3 days	✓	17-Jun-2022	40 days	1 days	✓

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Saturated Paste Extractables : Sodium Adsorption Ratio (SAR) - 1:2 Soil:Water (Dry)										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-BH2-22-0.0-0.3	E484	14-Jun-2022	20-Jun-2022	180 days	6 days	✓	21-Jun-2022	180 days	1 days	✓
Saturated Paste Extractables : Sodium Adsorption Ratio (SAR) - 1:2 Soil:Water (Dry)										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-BH3-22-0.0-0.6	E484	14-Jun-2022	20-Jun-2022	180 days	6 days	✓	21-Jun-2022	180 days	1 days	✓
Saturated Paste Extractables : Sodium Adsorption Ratio (SAR) - 1:2 Soil:Water (Dry)										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-BH3-22-0.0-0.6X	E484	14-Jun-2022	20-Jun-2022	180 days	6 days	✓	21-Jun-2022	180 days	1 days	✓
Saturated Paste Extractables : Sodium Adsorption Ratio (SAR) - 1:2 Soil:Water (Dry)										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-BH4-22-0.0-0.6	E484	14-Jun-2022	20-Jun-2022	180 days	6 days	✓	21-Jun-2022	180 days	1 days	✓
Saturated Paste Extractables : Sodium Adsorption Ratio (SAR) - 1:2 Soil:Water (Dry)										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-BH5-22-0.0-0.6	E484	14-Jun-2022	20-Jun-2022	180 days	6 days	✓	21-Jun-2022	180 days	1 days	✓
Saturated Paste Extractables : Sodium Adsorption Ratio (SAR) - 1:2 Soil:Water (Dry)										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-BH6-22-0.0-0.6	E484	14-Jun-2022	20-Jun-2022	180 days	6 days	✓	21-Jun-2022	180 days	1 days	✓
Saturated Paste Extractables : Sodium Adsorption Ratio (SAR) - 1:2 Soil:Water (Dry)										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-BH8-22-0.0-0.6	E484	14-Jun-2022	20-Jun-2022	180 days	6 days	✓	21-Jun-2022	180 days	1 days	✓
Saturated Paste Extractables : Sodium Adsorption Ratio (SAR) - 1:2 Soil:Water (Dry)										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-BH9-22-0.0-0.6	E484	14-Jun-2022	20-Jun-2022	180 days	6 days	✓	21-Jun-2022	180 days	1 days	✓
Saturated Paste Extractables : Sodium Adsorption Ratio (SAR) - 1:2 Soil:Water (Dry)										
Glass soil jar/Teflon lined cap										
S-12581540-220613-JB-BH10-22-0.0-0.6	E484	13-Jun-2022	20-Jun-2022	180 days	7 days	✓	21-Jun-2022	180 days	1 days	✓

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Saturated Paste Extractables : Sodium Adsorption Ratio (SAR) - 1:2 Soil:Water (Dry)										
Glass soil jar/Teflon lined cap										
S-12581540-220613-JB-BH11-22-0.0-0.6	E484	13-Jun-2022	20-Jun-2022	180 days	7 days	✓	21-Jun-2022	180 days	1 days	✓
Saturated Paste Extractables : Sodium Adsorption Ratio (SAR) - 1:2 Soil:Water (Dry)										
Glass soil jar/Teflon lined cap										
S-12581540-220613-JB-BH1-22-0.0-0.6	E484	13-Jun-2022	20-Jun-2022	180 days	7 days	✓	21-Jun-2022	180 days	1 days	✓
Saturated Paste Extractables : Sodium Adsorption Ratio (SAR) - 1:2 Soil:Water (Dry)										
Glass soil jar/Teflon lined cap										
S-12581540-220613-JB-BH7-22-0.0-0.6	E484	13-Jun-2022	20-Jun-2022	180 days	7 days	✓	21-Jun-2022	180 days	1 days	✓
Speciated Metals : Hexavalent Chromium (Cr VI) by IC										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-BH2-22-0.0-0.3	E532	14-Jun-2022	16-Jun-2022	30 days	2 days	✓	17-Jun-2022	7 days	1 days	✓
Speciated Metals : Hexavalent Chromium (Cr VI) by IC										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-BH3-22-0.0-0.6	E532	14-Jun-2022	16-Jun-2022	30 days	2 days	✓	17-Jun-2022	7 days	1 days	✓
Speciated Metals : Hexavalent Chromium (Cr VI) by IC										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-BH3-22-0.0-0.6X	E532	14-Jun-2022	16-Jun-2022	30 days	2 days	✓	17-Jun-2022	7 days	1 days	✓
Speciated Metals : Hexavalent Chromium (Cr VI) by IC										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-BH4-22-0.0-0.6	E532	14-Jun-2022	16-Jun-2022	30 days	2 days	✓	17-Jun-2022	7 days	1 days	✓
Speciated Metals : Hexavalent Chromium (Cr VI) by IC										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-BH5-22-0.0-0.6	E532	14-Jun-2022	16-Jun-2022	30 days	2 days	✓	17-Jun-2022	7 days	1 days	✓
Speciated Metals : Hexavalent Chromium (Cr VI) by IC										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-BH6-22-0.0-0.6	E532	14-Jun-2022	16-Jun-2022	30 days	2 days	✓	17-Jun-2022	7 days	1 days	✓

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Speciated Metals : Hexavalent Chromium (Cr VI) by IC										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-BH8-22-0.0-0.6	E532	14-Jun-2022	16-Jun-2022	30 days	2 days	✓	17-Jun-2022	7 days	1 days	✓
Speciated Metals : Hexavalent Chromium (Cr VI) by IC										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-BH9-22-0.0-0.6	E532	14-Jun-2022	16-Jun-2022	30 days	2 days	✓	17-Jun-2022	7 days	1 days	✓
Speciated Metals : Hexavalent Chromium (Cr VI) by IC										
Glass soil jar/Teflon lined cap										
S-12581540-220613-JB-BH10-22-0.0-0.6	E532	13-Jun-2022	16-Jun-2022	30 days	3 days	✓	17-Jun-2022	7 days	1 days	✓
Speciated Metals : Hexavalent Chromium (Cr VI) by IC										
Glass soil jar/Teflon lined cap										
S-12581540-220613-JB-BH11-22-0.0-0.6	E532	13-Jun-2022	16-Jun-2022	30 days	3 days	✓	17-Jun-2022	7 days	1 days	✓
Speciated Metals : Hexavalent Chromium (Cr VI) by IC										
Glass soil jar/Teflon lined cap										
S-12581540-220613-JB-BH1-22-0.0-0.6	E532	13-Jun-2022	16-Jun-2022	30 days	3 days	✓	17-Jun-2022	7 days	1 days	✓
Speciated Metals : Hexavalent Chromium (Cr VI) by IC										
Glass soil jar/Teflon lined cap										
S-12581540-220613-JB-BH7-22-0.0-0.6	E532	13-Jun-2022	16-Jun-2022	30 days	3 days	✓	17-Jun-2022	7 days	1 days	✓
Volatile Organic Compounds : VOCs (ON List) by Headspace GC-MS										
Glass soil methanol vial [ON MECP]										
S-12581540-220614-JB-BH2-22-0.0-0.3	E611D	14-Jun-2022	16-Jun-2022	14 days	2 days	✓	16-Jun-2022	40 days	0 days	✓
Volatile Organic Compounds : VOCs (ON List) by Headspace GC-MS										
Glass soil methanol vial [ON MECP]										
S-12581540-220614-JB-BH3-22-0.0-0.6	E611D	14-Jun-2022	16-Jun-2022	14 days	2 days	✓	16-Jun-2022	40 days	0 days	✓
Volatile Organic Compounds : VOCs (ON List) by Headspace GC-MS										
Glass soil methanol vial [ON MECP]										
S-12581540-220614-JB-BH4-22-0.0-0.6	E611D	14-Jun-2022	16-Jun-2022	14 days	2 days	✓	16-Jun-2022	40 days	0 days	✓

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Volatile Organic Compounds : VOCs (ON List) by Headspace GC-MS										
Glass soil methanol vial [ON MECP] S-12581540-220614-JB-BH5-22-0.0-0.6	E611D	14-Jun-2022	16-Jun-2022	14 days	2 days	✓	16-Jun-2022	40 days	0 days	✓
Volatile Organic Compounds : VOCs (ON List) by Headspace GC-MS										
Glass soil methanol vial [ON MECP] S-12581540-220614-JB-BH6-22-0.0-0.6	E611D	14-Jun-2022	16-Jun-2022	14 days	2 days	✓	16-Jun-2022	40 days	0 days	✓
Volatile Organic Compounds : VOCs (ON List) by Headspace GC-MS										
Glass soil methanol vial [ON MECP] S-12581540-220614-JB-BH8-22-0.0-0.6	E611D	14-Jun-2022	16-Jun-2022	14 days	2 days	✓	16-Jun-2022	40 days	0 days	✓
Volatile Organic Compounds : VOCs (ON List) by Headspace GC-MS										
Glass soil methanol vial [ON MECP] S-12581540-220614-JB-BH9-22-0.0-0.6	E611D	14-Jun-2022	16-Jun-2022	14 days	2 days	✓	16-Jun-2022	40 days	0 days	✓
Volatile Organic Compounds : VOCs (ON List) by Headspace GC-MS										
Glass soil methanol vial [ON MECP] S-12581540-220614-JB-BH9-22-0.0-0.6X	E611D	14-Jun-2022	16-Jun-2022	14 days	2 days	✓	16-Jun-2022	40 days	0 days	✓
Volatile Organic Compounds : VOCs (ON List) by Headspace GC-MS										
Glass soil methanol vial [ON MECP] S-12581540-220614-JB-TRIP BLANK	E611D	14-Jun-2022	16-Jun-2022	14 days	2 days	✓	16-Jun-2022	40 days	0 days	✓
Volatile Organic Compounds : VOCs (ON List) by Headspace GC-MS										
Glass soil methanol vial [ON MECP] S-12581540-220613-JB-BH10-22-0.0-0.6	E611D	13-Jun-2022	16-Jun-2022	14 days	3 days	✓	16-Jun-2022	40 days	0 days	✓
Volatile Organic Compounds : VOCs (ON List) by Headspace GC-MS										
Glass soil methanol vial [ON MECP] S-12581540-220613-JB-BH10-22-1.5-1.8	E611D	13-Jun-2022	16-Jun-2022	14 days	3 days	✓	16-Jun-2022	40 days	0 days	✓
Volatile Organic Compounds : VOCs (ON List) by Headspace GC-MS										
Glass soil methanol vial [ON MECP] S-12581540-220613-JB-BH10-22-1.5-1.8X	E611D	13-Jun-2022	16-Jun-2022	14 days	3 days	✓	16-Jun-2022	40 days	0 days	✓

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Volatile Organic Compounds : VOCs (ON List) by Headspace GC-MS										
Glass soil methanol vial [ON MECP] S-12581540-220613-JB-BH11-22-0.0-0.6	E611D	13-Jun-2022	16-Jun-2022	14 days	3 days	✓	16-Jun-2022	40 days	0 days	✓
Volatile Organic Compounds : VOCs (ON List) by Headspace GC-MS										
Glass soil methanol vial [ON MECP] S-12581540-220613-JB-BH11-22-1.5-2.1	E611D	13-Jun-2022	16-Jun-2022	14 days	3 days	✓	16-Jun-2022	40 days	0 days	✓
Volatile Organic Compounds : VOCs (ON List) by Headspace GC-MS										
Glass soil methanol vial [ON MECP] S-12581540-220613-JB-BH1-22-0.0-0.6	E611D	13-Jun-2022	16-Jun-2022	14 days	3 days	✓	16-Jun-2022	40 days	0 days	✓
Volatile Organic Compounds : VOCs (ON List) by Headspace GC-MS										
Glass soil methanol vial [ON MECP] S-12581540-220613-JB-BH7-22-0.0-0.6	E611D	13-Jun-2022	16-Jun-2022	14 days	3 days	✓	16-Jun-2022	40 days	0 days	✓
Volatile Organic Compounds : VOCs (ON List) by Headspace GC-MS										
Glass soil methanol vial [ON MECP] S-12581540-220610-JB-BH12-22-0.05-0.6	E611D	10-Jun-2022	16-Jun-2022	14 days	6 days	✓	16-Jun-2022	40 days	0 days	✓
Volatile Organic Compounds : VOCs (ON List) by Headspace GC-MS										
Glass soil methanol vial [ON MECP] S-12581540-220610-JB-BH14-22-0.8-1.4	E611D	10-Jun-2022	16-Jun-2022	14 days	6 days	✓	16-Jun-2022	40 days	0 days	✓

Legend & Qualifier Definitions

Rec. HT: ALS recommended hold time (see units).

Quality Control Parameter Frequency Compliance

The following report summarizes the frequency of laboratory QC samples analyzed within the analytical batches (QC lots) in which the submitted samples were processed. The actual frequency should be greater than or equal to the expected frequency.

Matrix: **Soil/Solid**

Evaluation: × = QC frequency outside specification; ✓ = QC frequency within specification.

Quality Control Sample Type			Count		Frequency (%)		
Analytical Methods	*Method*	*QC Lot #*	*QC*	*Regular*	*Actual*	*Expected*	*Evaluation*
Laboratory Duplicates (DUP)							
Boron-Hot Water Extractable by ICPOES	E487	526296	1	14	7.1	5.0	✓
CCME PHC - F1 by Headspace GC-FID	E581.F1	526634	1	20	5.0	5.0	✓
CCME PHCs - F4G by Gravimetry (Low Level)	E601.F4G-L	533665	1	14	7.1	5.0	✓
CCME PHCs - F2-F4 by GC-FID (Low Level)	E601.SG-L	527742	2	30	6.6	5.0	✓
Conductivity in Soil (1:2 Soil:Water Extraction) (Low Level)	E100-L	526293	1	14	7.1	5.0	✓
Hexavalent Chromium (Cr VI) by IC	E532	526326	1	18	5.5	5.0	✓
Mercury in Soil/Solid by CVAAS	E510	526291	1	14	7.1	5.0	✓
Metals in Soil/Solid by CRC ICPMS	E440	526292	1	14	7.1	5.0	✓
Moisture Content by Gravimetry	E144	526200	4	67	5.9	5.0	✓
PAHs by MeOH:Tol GC-MS	E642F	526650	1	16	6.2	5.0	✓
PCB Aroclors by GC-MS	E687	526651	1	3	33.3	5.0	✓
pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received	E108A	526568	1	19	5.2	5.0	✓
Sodium Adsorption Ratio (SAR) - 1:2 Soil:Water (Dry)	E484	526295	1	14	7.1	5.0	✓
VOCs (ON List) by Headspace GC-MS	E611D	526635	1	20	5.0	5.0	✓
WAD Cyanide (0.01M NaOH Extraction)	E336A	526403	1	14	7.1	5.0	✓
Laboratory Control Samples (LCS)							
Boron-Hot Water Extractable by ICPOES	E487	526296	2	14	14.2	10.0	✓
CCME PHC - F1 by Headspace GC-FID	E581.F1	526634	1	20	5.0	5.0	✓
CCME PHCs - F4G by Gravimetry (Low Level)	E601.F4G-L	533665	3	14	21.4	5.0	✓
CCME PHCs - F2-F4 by GC-FID (Low Level)	E601.SG-L	527742	2	30	6.6	5.0	✓
Conductivity in Soil (1:2 Soil:Water Extraction) (Low Level)	E100-L	526293	2	14	14.2	10.0	✓
Hexavalent Chromium (Cr VI) by IC	E532	526326	2	18	11.1	10.0	✓
Mercury in Soil/Solid by CVAAS	E510	526291	2	14	14.2	10.0	✓
Metals in Soil/Solid by CRC ICPMS	E440	526292	2	14	14.2	10.0	✓
Moisture Content by Gravimetry	E144	526200	4	67	5.9	5.0	✓
PAHs by MeOH:Tol GC-MS	E642F	526650	1	16	6.2	5.0	✓
PCB Aroclors by GC-MS	E687	526651	1	3	33.3	5.0	✓
pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received	E108A	526568	1	19	5.2	5.0	✓
Sodium Adsorption Ratio (SAR) - 1:2 Soil:Water (Dry)	E484	526295	2	14	14.2	10.0	✓
VOCs (ON List) by Headspace GC-MS	E611D	526635	1	20	5.0	5.0	✓
WAD Cyanide (0.01M NaOH Extraction)	E336A	526403	1	14	7.1	5.0	✓
Method Blanks (MB)							
Boron-Hot Water Extractable by ICPOES	E487	526296	1	14	7.1	5.0	✓
CCME PHC - F1 by Headspace GC-FID	E581.F1	526634	1	20	5.0	5.0	✓
CCME PHCs - F4G by Gravimetry (Low Level)	E601.F4G-L	533665	3	14	21.4	5.0	✓
CCME PHCs - F2-F4 by GC-FID (Low Level)	E601.SG-L	527742	2	30	6.6	5.0	✓
Conductivity in Soil (1:2 Soil:Water Extraction) (Low Level)	E100-L	526293	1	14	7.1	5.0	✓

Matrix: **Soil/Solid**

Evaluation: × = *QC frequency outside specification*; ✓ = *QC frequency within specification.*

Quality Control Sample Type			Count		Frequency (%)		
Analytical Methods	*Method*	*QC Lot #*	*QC*	*Regular*	*Actual*	*Expected*	*Evaluation*
Method Blanks (MB) - Continued							
Hexavalent Chromium (Cr VI) by IC	E532	526326	1	18	5.5	5.0	✓
Mercury in Soil/Solid by CVAAS	E510	526291	1	14	7.1	5.0	✓
Metals in Soil/Solid by CRC ICPMS	E440	526292	1	14	7.1	5.0	✓
Moisture Content by Gravimetry	E144	526200	4	67	5.9	5.0	✓
PAHs by MeOH:Tol GC-MS	E642F	526650	1	16	6.2	5.0	✓
PCB Aroclors by GC-MS	E687	526651	1	3	33.3	5.0	✓
Sodium Adsorption Ratio (SAR) - 1:2 Soil:Water (Dry)	E484	526295	1	14	7.1	5.0	✓
VOCs (ON List) by Headspace GC-MS	E611D	526635	1	20	5.0	5.0	✓
WAD Cyanide (0.01M NaOH Extraction)	E336A	526403	1	14	7.1	5.0	✓
Matrix Spikes (MS)							
CCME PHC - F1 by Headspace GC-FID	E581.F1	526634	1	20	5.0	5.0	✓
CCME PHCs - F4G by Gravimetry (Low Level)	E601.F4G-L	533665	1	14	7.1	5.0	✓
CCME PHCs - F2-F4 by GC-FID (Low Level)	E601.SG-L	527742	2	30	6.6	5.0	✓
PAHs by MeOH:Tol GC-MS	E642F	526650	1	16	6.2	5.0	✓
PCB Aroclors by GC-MS	E687	526651	1	3	33.3	5.0	✓
VOCs (ON List) by Headspace GC-MS	E611D	526635	1	20	5.0	5.0	✓
WAD Cyanide (0.01M NaOH Extraction)	E336A	526403	1	14	7.1	5.0	✓

Methodology References and Summaries

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Reference methods may incorporate modifications to improve performance (indicated by "mod").

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Conductivity in Soil (1:2 Soil:Water Extraction) (Low Level)	E100-L Waterloo - Environmental	Soil/Solid	CSSS Ch. 15 (mod)/APHA 2510 (mod)	Conductivity, also known as Electrical Conductivity (EC) or Specific Conductance, is measured by immersion of a conductivity cell with platinum electrodes into a soil sample that has been added in a defined ratio of soil to deionized water, then shaken well and allowed to settle. Conductance is measured in the fluid that is observed in the upper layer.
pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received	E108A Waterloo - Environmental	Soil/Solid	MOEE E3137A	pH is determined by potentiometric measurement with a pH electrode, and is conducted at ambient laboratory temperature (normally 20 ± 5°C) and is carried out in accordance with procedures described in the Analytical Protocol (prescriptive method). A minimum 10g portion of the sample, as received, is extracted with 20mL of 0.01M calcium chloride solution by shaking for at least 30 minutes. The aqueous layer is separated from the soil by centrifuging, settling, or decanting and then analyzed using a pH meter and electrode.
Moisture Content by Gravimetry	E144 Waterloo - Environmental	Soil/Solid	CCME PHC in Soil - Tier 1	Moisture is measured gravimetrically by drying the sample at 105°C. Moisture content is calculated as the weight loss (due to water) divided by the wet weight of the sample, expressed as a percentage.
WAD Cyanide (0.01M NaOH Extraction)	E336A Waterloo - Environmental	Soil/Solid	APHA 4500-CN I (mod)	Weak Acid Dissociable (WAD) cyanide is determined after extraction by Continuous Flow Analyzer (CFA) with in-line distillation followed by colourmetric analysis.
Metals in Soil/Solid by CRC ICPMS	E440 Waterloo - Environmental	Soil/Solid	EPA 6020B (mod)	This method is intended to liberate metals that may be environmentally available. Samples are dried, then sieved through a 2 mm sieve, and digested with HNO3 and HCl. Dependent on sample matrix, some metals may be only partially recovered, including Al, Ba, Be, Cr, Sr, Ti, Tl, V, W, and Zr. Silicate minerals are not solubilized. Volatile forms of sulfur (including sulfide) may not be captured, as they may be lost during sampling, storage, or digestion. This method does not adequately recover elemental sulfur, and is unsuitable for assessment of elemental sulfur standards or guidelines. Analysis is by Collision/Reaction Cell ICPMS.
Sodium Adsorption Ratio (SAR) - 1:2 Soil:Water (Dry)	E484 Waterloo - Environmental	Soil/Solid	SW846 6010C	A dried, disaggregated solid sample is extracted with deionized water, the aqueous extract is separated from the solid, acidified and then analyzed using a ICP/OES. The concentrations of Na, Ca and Mg are reported as per CALA requirements for calculated parameters. These individual parameters are not for comparison to any guideline.
Boron-Hot Water Extractable by ICPOES	E487 Waterloo - Environmental	Soil/Solid	HW EXTR, EPA 6010B	A dried solid sample is extracted with calcium chloride, the sample undergoes a heating process. After cooling the sample is filtered and analyzed by ICP/OES. Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Mercury in Soil/Solid by CVAAS	E510 Waterloo - Environmental	Soil/Solid	EPA 200.2/1631 Appendix (mod)	Samples are dried, then sieved through a 2 mm sieve, and digested with HNO_3 and HCl, followed by CVAAS analysis.
Hexavalent Chromium (Cr VI) by IC	E532 Waterloo - Environmental	Soil/Solid	APHA 3500-CR C	Instrumental analysis is performed by ion chromatography with UV detection.
CCME PHC - F1 by Headspace GC-FID	E581.F1 Waterloo - Environmental	Soil/Solid	CCME PHC in Soil - Tier 1	CCME Fraction 1 (F1) is analyzed by static headspace GC-FID. Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler, causing VOCs to partition between the aqueous phase and the headspace in accordance with Henry's law.
CCME PHCs - F4G by Gravimetry (Low Level)	E601.F4G-L Waterloo - Environmental	Soil/Solid	CCME PHC in Soil - Tier 1	A portion of the silica gel treated sample extract is filtered and dried at 105°C and the mass of the residual gravimetric heavy hydrocarbons (F4G) is determined gravimetrically.
CCME PHCs - F2-F4 by GC-FID (Low Level)	E601.SG-L Waterloo - Environmental	Soil/Solid	CCME PHC in Soil - Tier 1	Sample extracts are subjected to in-situ silica gel treatment prior to analysis by GC-FID for CCME hydrocarbon fractions (F2-F4).
VOCs (ON List) by Headspace GC-MS	E611D Waterloo - Environmental	Soil/Solid	EPA 8260D (mod)	Volatile Organic Compounds (VOCs) are analyzed by static headspace GC-MS. Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler, causing VOCs to partition between the aqueous phase and the headspace in accordance with Henry's law.
PAHs by MeOH:Tol GC-MS	E642F Waterloo - Environmental	Soil/Solid	EPA 8270E (mod)	Polycyclic Aromatic Hydrocarbons (PAHs) are extracted with methanol/toluene and analyzed by GC-MS. If reported, IACR (index of additive cancer risk, unitless) and B(a)P toxic potency equivalent (in soil concentration units) are calculated as per CCME PAH Soil Quality Guidelines fact sheet (2010) or ABT1.
PCB Aroclors by GC-MS	E687 Waterloo - Environmental	Soil/Solid	EPA 8270E (mod)	PCB Aroclors are analyzed by GC-MS
F1-BTEX	EC580 Waterloo - Environmental	Soil/Solid	CCME PHC in Soil - Tier 1	F1-BTEX is calculated as follows: F1-BTEX = F1 (C6-C10) minus benzene, toluene, ethylbenzene and xylenes (BTEX).
Sum F1 to F4 (C6-C50)	EC581 Waterloo - Environmental	Soil/Solid	CCME PHC in Soil - Tier 1	Hydrocarbons, total (C6-C50) is the sum of CCME Fractions F1(C6-C10), F2(C10-C16), F3(C16-C34), and F4(C34-C50). F4G-sg is not used within this calculation due to overlap with other fractions.
F2 to F3 minus PAH	EC600 Waterloo - Environmental	Soil/Solid	CCME PHC in Soil - Tier 1	F2-PAH = CCME Fraction 2 (C10-C16) minus Naphthalene F3-PAH = CCME Fraction 3 (C16-C34) minus select Polycyclic Aromatic Hydrocarbons (PAH) as per CCME Soil Tier 1

Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions

Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Leach 1:2 Soil:Water for pH/EC	EP108 Waterloo - Environmental	Soil/Solid	BC WLAP METHOD: PH, ELECTROMETRIC, SOIL	The procedure involves mixing the dried (at <60°C) and sieved (No. 10 / 2mm) sample with deionized/distilled water at a 1:2 ratio of sediment to water.
Leach 1:2 Soil : 0.01CaCl2 - As Received for pH	EP108A Waterloo - Environmental	Soil/Solid	MOEE E3137A	A minimum 10g portion of the sample, as received, is extracted with 20mL of 0.01M calcium chloride solution by shaking for at least 30 minutes. The aqueous layer is separated from the soil by centrifuging, settling or decanting and then analyzed using a pH meter and electrode.
Cyanide Extraction for CFA (0.01M NaOH)	EP333A Waterloo - Environmental	Soil/Solid	ON MECP E3015 (mod)	Extraction for various cyanide analysis is by rotary extraction of the soil with 0.01M Sodium Hydroxide.
Digestion for Metals and Mercury	EP440 Waterloo - Environmental	Soil/Solid	EPA 200.2 (mod)	Samples are dried, then sieved through a 2 mm sieve, and digested with HNO3 and HCl. This method is intended to liberate metals that may be environmentally available.
Boron-Hot Water Extractable	EP487 Waterloo - Environmental	Soil/Solid	HW EXTR, EPA 6010B	A dried solid sample is extracted with weak calcium chloride, the sample undergoes a heating process. After cooling the sample is filtered and analyzed by ICP/OES. Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011)
Preparation of Hexavalent Chromium (Cr VI) for IC	EP532 Waterloo - Environmental	Soil/Solid	EPA 3060A	Field moist samples are digested with a sodium hydroxide/sodium carbonate solution as described in EPA 3060A.
VOCs Methanol Extraction for Headspace Analysis	EP581 Waterloo - Environmental	Soil/Solid	EPA 5035A (mod)	VOCs in samples are extracted with methanol. Extracts are then prepared in headspace vials and are heated and agitated on the headspace autosampler, causing VOCs to partition between the aqueous phase and the headspace in accordance with Henry's law.
PHCs and PAHs Hexane-Acetone Tumbler Extraction	EP601 Waterloo - Environmental	Soil/Solid	CCME PHC in Soil - Tier 1 (mod)	Samples are subsampled and Petroleum Hydrocarbons (PHC) and PAHs are extracted with 1:1 hexane:acetone using a rotary extractor.
Pesticides, PCB, PAH, and Neutral Extractable Chlorinated Hydrocarbons Extraction (High Level)	EP660-H Waterloo - Environmental	Soil/Solid	EPA 3570 (mod)	A homogenized subsample is extracted with organic solvents using a mechanical shaker.

QUALITY CONTROL REPORT

Work Order	: **WT2205639**	Page	: 1 of 19
Amendment	: **1**		
Client	: GHD Limited	Laboratory	: Waterloo - Environmental
Contact	: Jennifer Balkwill	Account Manager	: Rick Hawthorne
Address	: 455 Phillip Street Waterloo ON Canada N2L 3X2	Address	: 60 Northland Road, Unit 1 Waterloo, Ontario Canada N2V 2B8
Telephone	: ----	Telephone	: +1 519 886 6910
Project	: 12581540	Date Samples Received	: 15-Jun-2022 14:40
PO	: 735-003274	Date Analysis Commenced	: 16-Jun-2022
C-O-C number	: ----	Issue Date	: 23-Jun-2022 17:03
Sampler	: Jeffrey Bisson		
Site	: ----		
Quote number	: 12581540 - City of Mississauga		
No. of samples received	: 21		
No. of samples analysed	: 21		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percent Difference (RPD) and Data Quality Objectives
- Matrix Spike (MS) Report; Recovery and Data Quality Objectives
- Reference Material (RM) Report; Recovery and Data Quality Objectives
- Method Blank (MB) Report; Recovery and Data Quality Objectives
- Laboratory Control Sample (LCS) Report; Recovery and Data Quality Objectives

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

Signatories	*Position*	*Laboratory Department*
Amanda Ganouri-Lumsden	Department Manager - Microbiology and Prep	Waterloo Centralized Prep, Waterloo, Ontario
Jeremy Gingras	Team Leader - Semi-Volatile Instrumentation	Waterloo Organics, Waterloo, Ontario
Jocelyn Kennedy	Department Manager - Semi-Volatile Organics	Waterloo Organics, Waterloo, Ontario
Jon Fisher	Department Manager - Inorganics	Waterloo Inorganics, Waterloo, Ontario
Jon Fisher	Department Manager - Inorganics	Waterloo Metals, Waterloo, Ontario
Sarah Birch	Team Leader - Volatiles	Waterloo Organics, Waterloo, Ontario

General Comments

The ALS Quality Control (QC) report is optionally provided to ALS clients upon request. ALS test methods include comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined Data Quality Objectives (DQOs) to provide confidence in the accuracy of associated test results. This report contains detailed results for all QC results applicable to this sample submission. Please refer to the ALS Quality Control Interpretation report (QCI) for applicable method references and methodology summaries.

Key :

Anonymous = Refers to samples which are not part of this work order, but which formed part of the QC process lot.
CAS Number = Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
DQO = Data Quality Objective.
LOR = Limit of Reporting (detection limit).
RPD = Relative Percent Difference
# = Indicates a QC result that did not meet the ALS DQO.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Laboratory Duplicate (DUP) Report

A Laboratory Duplicate (DUP) is a randomly selected intralaboratory replicate sample. Laboratory Duplicates provide information regarding method precision and sample heterogeneity. ALS DQOs for Laboratory Duplicates are expressed as test-specific limits for Relative Percent Difference (RPD), or as an absolute difference limit of 2 times the LOR for low concentration duplicates within ~ 4-10 times the LOR (cut-off is test-specific).

Sub-Matrix: **Soil/Solid**

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Physical Tests (QC Lot: 526200)											
WT2205633-010	Anonymous	moisture	----	E144	0.25	%	10.3	10.2	1.46%	20%	----
Physical Tests (QC Lot: 526293)											
WT2205659-002	Anonymous	conductivity (1:2 leachate)	----	E100-L	5.00	µS/cm	0.723 mS/cm	733	1.37%	20%	----
Physical Tests (QC Lot: 526568)											
WT2205659-001	Anonymous	pH (1:2 soil:CaCl2-aq)	----	E108A	0.10	pH units	7.55	7.51	0.04	Diff <2x LOR	----
Physical Tests (QC Lot: 527203)											
WT2205502-002	Anonymous	moisture	----	E144	0.25	%	16.0	17.3	7.66%	20%	----
Physical Tests (QC Lot: 527457)											
EO2204457-002	Anonymous	moisture	----	E144	0.25	%	25.3	24.1	4.78%	20%	----
Physical Tests (QC Lot: 530101)											
CG2207364-001	Anonymous	moisture	----	E144	0.25	%	12.1	12.1	0.258%	20%	----
Cyanides (QC Lot: 526403)											
WT2205639-001	S-12581540-220614-JB-BH 2-22-0.0-0.3	cyanide, weak acid dissociable	----	E336A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
Metals (QC Lot: 526291)											
WT2205639-001	S-12581540-220614-JB-BH 2-22-0.0-0.3	mercury	7439-97-6	E510	0.0050	mg/kg	0.0168	# 0.0270	0.0102	Diff <2x LOR	DUP-H
Metals (QC Lot: 526292)											
WT2205639-001	S-12581540-220614-JB-BH 2-22-0.0-0.3	antimony	7440-36-0	E440	0.10	mg/kg	0.70	0.64	10.2%	30%	----
		arsenic	7440-38-2	E440	0.10	mg/kg	4.35	4.57	4.85%	30%	----
		barium	7440-39-3	E440	0.50	mg/kg	58.4	59.2	1.40%	40%	----
		beryllium	7440-41-7	E440	0.10	mg/kg	0.24	0.23	0.01	Diff <2x LOR	----
		boron	7440-42-8	E440	5.0	mg/kg	8.1	7.0	1.0	Diff <2x LOR	----
		cadmium	7440-43-9	E440	0.020	mg/kg	0.464	0.546	16.2%	30%	----
		chromium	7440-47-3	E440	0.50	mg/kg	176	176	0.163%	30%	----
		cobalt	7440-48-4	E440	0.10	mg/kg	4.29	4.31	0.560%	30%	----
		copper	7440-50-8	E440	0.50	mg/kg	24.9	27.6	10.4%	30%	----
		lead	7439-92-1	E440	0.50	mg/kg	37.1	35.0	5.76%	40%	----
		molybdenum	7439-98-7	E440	0.10	mg/kg	2.67	2.48	7.60%	40%	----
		nickel	7440-02-0	E440	0.50	mg/kg	21.2	20.9	1.58%	30%	----
		selenium	7782-49-2	E440	0.20	mg/kg	<0.20	<0.20	0	Diff <2x LOR	----
		silver	7440-22-4	E440	0.50	mg/kg	<0.50	<0.50	0	Diff <2x LOR	----

Sub-Matrix: **Soil/Solid**

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	*Client sample ID*	*Analyte*	*CAS Number*	*Method*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD(%) or Difference*	*Duplicate Limits*	*Qualifier*
Metals (QC Lot: 526292) - continued											
WT2205639-001	S-12581540-220614-JB-BH 2-22-0.0-0.3	thallium	7440-28-0	E440	0.050	mg/kg	0.066	0.056	0.010	Diff <2x LOR	----
		uranium	7440-61-1	E440	0.050	mg/kg	0.415	0.387	7.04%	30%	----
		vanadium	7440-62-2	E440	0.20	mg/kg	89.3	90.8	1.62%	30%	----
		zinc	7440-66-6	E440	2.0	mg/kg	77.0	82.8	7.36%	30%	----
Metals (QC Lot: 526295)											
WT2205659-002	Anonymous	calcium, soluble ion content	7440-70-2	E484	0.50	mg/L	106	107	0.939%	30%	----
		magnesium, soluble ion content	7439-95-4	E484	0.50	mg/L	11.0	11.2	1.80%	30%	----
		sodium, soluble ion content	17341-25-2	E484	0.50	mg/L	35.3	35.7	1.13%	30%	----
Metals (QC Lot: 526296)											
WT2205659-001	Anonymous	boron, hot water soluble	7440-42-8	E487	0.10	mg/kg	0.32	0.34	0.02	Diff <2x LOR	----
Speciated Metals (QC Lot: 526326)											
WT2205262-012	Anonymous	chromium, hexavalent [Cr VI]	18540-29-9	E532	0.10	mg/kg	0.15	0.18	0.03	Diff <2x LOR	----
Volatile Organic Compounds (QC Lot: 526635)											
WT2205622-001	Anonymous	acetone	67-64-1	E611D	0.50	mg/kg	<0.50	<0.50	0	Diff <2x LOR	----
		benzene	71-43-2	E611D	0.0050	mg/kg	<0.0050	<0.0050	0	Diff <2x LOR	----
		bromodichloromethane	75-27-4	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		bromoform	75-25-2	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		bromomethane	74-83-9	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		carbon tetrachloride	56-23-5	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		chlorobenzene	108-90-7	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		chloroform	67-66-3	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		dibromochloromethane	124-48-1	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		dibromoethane, 1,2-	106-93-4	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		dichlorobenzene, 1,2-	95-50-1	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		dichlorobenzene, 1,3-	541-73-1	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		dichlorobenzene, 1,4-	106-46-7	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		dichlorodifluoromethane	75-71-8	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		dichloroethane, 1,1-	75-34-3	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		dichloroethane, 1,2-	107-06-2	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		dichloroethylene, 1,1-	75-35-4	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		dichloroethylene, cis-1,2-	156-59-2	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		dichloroethylene, trans-1,2-	156-60-5	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		dichloromethane	75-09-2	E611D	0.045	mg/kg	<0.045	<0.045	0	Diff <2x LOR	----
		dichloropropane, 1,2-	78-87-5	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		dichloropropylene, cis-1,3-	10061-01-5	E611D	0.030	mg/kg	<0.030	<0.030	0	Diff <2x LOR	----

Sub-Matrix: **Soil/Solid**

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	*Client sample ID*	*Analyte*	*CAS Number*	*Method*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD(%) or Difference*	*Duplicate Limits*	*Qualifier*
Volatile Organic Compounds (QC Lot: 526635) - continued											
WT2205622-001	Anonymous	dichloropropylene, trans-1,3-	10061-02-6	E611D	0.030	mg/kg	<0.030	<0.030	0	Diff <2x LOR	----
		ethylbenzene	100-41-4	E611D	0.015	mg/kg	<0.015	<0.015	0	Diff <2x LOR	----
		hexane, n-	110-54-3	E611D	0.050	mg/kg	0.076	0.077	0.002	Diff <2x LOR	----
		methyl ethyl ketone [MEK]	78-93-3	E611D	0.50	mg/kg	<0.50	<0.50	0	Diff <2x LOR	----
		methyl isobutyl ketone [MIBK]	108-10-1	E611D	0.50	mg/kg	<0.50	<0.50	0	Diff <2x LOR	----
		methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.040	mg/kg	<0.040	<0.040	0	Diff <2x LOR	----
		styrene	100-42-5	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		tetrachloroethylene	127-18-4	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		toluene	108-88-3	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		trichloroethane, 1,1,1-	71-55-6	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		trichloroethane, 1,1,2-	79-00-5	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		trichloroethylene	79-01-6	E611D	0.010	mg/kg	<0.010	<0.010	0	Diff <2x LOR	----
		trichlorofluoromethane	75-69-4	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		vinyl chloride	75-01-4	E611D	0.020	mg/kg	<0.020	<0.020	0	Diff <2x LOR	----
		xylene, m+p-	179601-23-1	E611D	0.030	mg/kg	0.035	0.034	0.001	Diff <2x LOR	----
		xylene, o-	95-47-6	E611D	0.030	mg/kg	<0.030	<0.030	0	Diff <2x LOR	----
Hydrocarbons (QC Lot: 526634)											
WT2205622-001	Anonymous	F1 (C6-C10)	----	E581.F1	5.0	mg/kg	<5.0	<5.0	0	Diff <2x LOR	----
Hydrocarbons (QC Lot: 527742)											
WT2205760-004	Anonymous	F2 (C10-C16)	----	E601.SG-L	10	mg/kg	<10	<10	0	Diff <2x LOR	----
		F3 (C16-C34)	----	E601.SG-L	50	mg/kg	<50	<50	0	Diff <2x LOR	----
		F4 (C34-C50)	----	E601.SG-L	50	mg/kg	<50	<50	0	Diff <2x LOR	----
Hydrocarbons (QC Lot: 531387)											
WT2205639-011	S-12581540-220614-JB-BH 9-22-0.0-0.6X	F2 (C10-C16)	----	E601.SG-L	30	mg/kg	<30	<30	0	Diff <2x LOR	----
		F3 (C16-C34)	----	E601.SG-L	90	mg/kg	1110	1310	16.6%	40%	----
		F4 (C34-C50)	----	E601.SG-L	90	mg/kg	2490	2850	13.5%	40%	----
Hydrocarbons (QC Lot: 535526)											
WT2205639-011	S-12581540-220614-JB-BH 9-22-0.0-0.6X	F4G-sg	----	E601.F4G-L	250	mg/kg	6870	8290	18.6%	40%	----
Polycyclic Aromatic Hydrocarbons (QC Lot: 526650)											
WT2205639-015	S-12581540-220613-JB-BH 1-22-0.0-0.6	acenaphthene	83-32-9	E642F	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		acenaphthylene	208-96-8	E642F	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		anthracene	120-12-7	E642F	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----

Sub-Matrix: **Soil/Solid**

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	*Client sample ID*	*Analyte*	*CAS Number*	*Method*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD(%) or Difference*	*Duplicate Limits*	*Qualifier*
Polycyclic Aromatic Hydrocarbons (QC Lot: 526650) - continued											
WT2205639-015	S-12581540-220613-JB-BH 1-22-0.0-0.6	benz(a)anthracene	56-55-3	E642F	0.050	mg/kg	0.059	0.089	0.030	Diff <2x LOR	----
		benzo(a)pyrene	50-32-8	E642F	0.050	mg/kg	0.088	0.122	0.035	Diff <2x LOR	----
		benzo(b+j)fluoranthene	n/a	E642F	0.050	mg/kg	0.109	0.150	0.041	Diff <2x LOR	----
		benzo(g,h,i)perylene	191-24-2	E642F	0.050	mg/kg	0.120	0.143	0.022	Diff <2x LOR	----
		benzo(k)fluoranthene	207-08-9	E642F	0.050	mg/kg	0.050	0.069	0.019	Diff <2x LOR	----
		chrysene	218-01-9	E642F	0.050	mg/kg	0.077	0.110	0.033	Diff <2x LOR	----
		dibenz(a,h)anthracene	53-70-3	E642F	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		fluoranthene	206-44-0	E642F	0.050	mg/kg	0.127	0.201	0.073	Diff <2x LOR	----
		fluorene	86-73-7	E642F	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		indeno(1,2,3-c,d)pyrene	193-39-5	E642F	0.050	mg/kg	0.080	0.103	0.023	Diff <2x LOR	----
		methylnaphthalene, 1-	90-12-0	E642F	0.030	mg/kg	<0.030	<0.030	0	Diff <2x LOR	----
		methylnaphthalene, 2-	91-57-6	E642F	0.030	mg/kg	<0.030	<0.030	0	Diff <2x LOR	----
		naphthalene	91-20-3	E642F	0.010	mg/kg	<0.010	<0.010	0	Diff <2x LOR	----
		phenanthrene	85-01-8	E642F	0.050	mg/kg	0.053	0.066	0.013	Diff <2x LOR	----
		pyrene	129-00-0	E642F	0.050	mg/kg	0.108	0.162	0.053	Diff <2x LOR	----
Polychlorinated Biphenyls (QC Lot: 526651)											
WT2205639-015	S-12581540-220613-JB-BH 1-22-0.0-0.6	Aroclor 1016	12674-11-2	E687	0.040	mg/kg	<0.040	<0.040	0	Diff <2x LOR	----
		Aroclor 1221	11104-28-2	E687	0.040	mg/kg	<0.040	<0.040	0	Diff <2x LOR	----
		Aroclor 1232	11141-16-5	E687	0.040	mg/kg	<0.040	<0.040	0	Diff <2x LOR	----
		Aroclor 1242	53469-21-9	E687	0.050	mg/kg	<0.040	<0.050	0.050	Diff <2x LOR	----
		Aroclor 1248	12672-29-6	E687	0.040	mg/kg	<0.040	<0.040	0	Diff <2x LOR	----
		Aroclor 1254	11097-69-1	E687	0.040	mg/kg	0.281	0.417	39.0%	50%	----
		Aroclor 1260	11096-82-5	E687	0.085	mg/kg	<0.070	<0.085	0.015	Diff <2x LOR	----
		Aroclor 1262	37324-23-5	E687	0.040	mg/kg	<0.040	<0.040	0	Diff <2x LOR	----
		Aroclor 1268	11100-14-4	E687	0.040	mg/kg	<0.040	<0.040	0	Diff <2x LOR	----

Qualifiers

Qualifier	*Description*
DUP-H	*Duplicate results outside ALS DQO, due to sample heterogeneity.*

Method Blank (MB) Report

A Method Blank is an analyte-free matrix that undergoes sample processing identical to that carried out for test samples. Method Blank results are used to monitor and control for potential contamination from the laboratory environment and reagents. For most tests, the DQO for Method Blanks is for the result to be < LOR.

Sub-Matrix: **Soil/Solid**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Physical Tests (QCLot: 526200)						
moisture	----	E144	0.25	%	<0.25	----
Physical Tests (QCLot: 526293)						
conductivity (1:2 leachate)	----	E100-L	5	µS/cm	<5.00	----
Physical Tests (QCLot: 527203)						
moisture	----	E144	0.25	%	<0.25	----
Physical Tests (QCLot: 527457)						
moisture	----	E144	0.25	%	<0.25	----
Physical Tests (QCLot: 530101)						
moisture	----	E144	0.25	%	<0.25	----
Cyanides (QCLot: 526403)						
cyanide, weak acid dissociable	----	E336A	0.05	mg/kg	<0.050	----
Metals (QCLot: 526291)						
mercury	7439-97-6	E510	0.005	mg/kg	<0.0050	----
Metals (QCLot: 526292)						
antimony	7440-36-0	E440	0.1	mg/kg	<0.10	----
arsenic	7440-38-2	E440	0.1	mg/kg	<0.10	----
barium	7440-39-3	E440	0.5	mg/kg	<0.50	----
beryllium	7440-41-7	E440	0.1	mg/kg	<0.10	----
boron	7440-42-8	E440	5	mg/kg	<5.0	----
cadmium	7440-43-9	E440	0.02	mg/kg	<0.020	----
chromium	7440-47-3	E440	0.5	mg/kg	<0.50	----
cobalt	7440-48-4	E440	0.1	mg/kg	<0.10	----
copper	7440-50-8	E440	0.5	mg/kg	<0.50	----
lead	7439-92-1	E440	0.5	mg/kg	<0.50	----
molybdenum	7439-98-7	E440	0.1	mg/kg	<0.10	----
nickel	7440-02-0	E440	0.5	mg/kg	<0.50	----
selenium	7782-49-2	E440	0.2	mg/kg	<0.20	----
silver	7440-22-4	E440	0.1	mg/kg	<0.10	----
thallium	7440-28-0	E440	0.05	mg/kg	<0.050	----
uranium	7440-61-1	E440	0.05	mg/kg	<0.050	----
vanadium	7440-62-2	E440	0.2	mg/kg	<0.20	----
zinc	7440-66-6	E440	2	mg/kg	<2.0	----
Metals (QCLot: 526295)						

Sub-Matrix: **Soil/Solid**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Metals (QCLot: 526295) - continued						
calcium, soluble ion content	7440-70-2	E484	0.5	mg/L	<0.50	----
magnesium, soluble ion content	7439-95-4	E484	0.5	mg/L	<0.50	----
sodium, soluble ion content	17341-25-2	E484	0.5	mg/L	<0.50	----
Metals (QCLot: 526296)						
boron, hot water soluble	7440-42-8	E487	0.1	mg/kg	<0.10	----
Speciated Metals (QCLot: 526326)						
chromium, hexavalent [Cr VI]	18540-29-9	E532	0.1	mg/kg	<0.10	----
Volatile Organic Compounds (QCLot: 526635)						
acetone	67-64-1	E611D	0.5	mg/kg	<0.50	----
benzene	71-43-2	E611D	0.005	mg/kg	<0.0050	----
bromodichloromethane	75-27-4	E611D	0.05	mg/kg	<0.050	----
bromoform	75-25-2	E611D	0.05	mg/kg	<0.050	----
bromomethane	74-83-9	E611D	0.05	mg/kg	<0.050	----
carbon tetrachloride	56-23-5	E611D	0.05	mg/kg	<0.050	----
chlorobenzene	108-90-7	E611D	0.05	mg/kg	<0.050	----
chloroform	67-66-3	E611D	0.05	mg/kg	<0.050	----
dibromochloromethane	124-48-1	E611D	0.05	mg/kg	<0.050	----
dibromoethane, 1,2-	106-93-4	E611D	0.05	mg/kg	<0.050	----
dichlorobenzene, 1,2-	95-50-1	E611D	0.05	mg/kg	<0.050	----
dichlorobenzene, 1,3-	541-73-1	E611D	0.05	mg/kg	<0.050	----
dichlorobenzene, 1,4-	106-46-7	E611D	0.05	mg/kg	<0.050	----
dichlorodifluoromethane	75-71-8	E611D	0.05	mg/kg	<0.050	----
dichloroethane, 1,1-	75-34-3	E611D	0.05	mg/kg	<0.050	----
dichloroethane, 1,2-	107-06-2	E611D	0.05	mg/kg	<0.050	----
dichloroethylene, 1,1-	75-35-4	E611D	0.05	mg/kg	<0.050	----
dichloroethylene, cis-1,2-	156-59-2	E611D	0.05	mg/kg	<0.050	----
dichloroethylene, trans-1,2-	156-60-5	E611D	0.05	mg/kg	<0.050	----
dichloromethane	75-09-2	E611D	0.045	mg/kg	<0.045	----
dichloropropane, 1,2-	78-87-5	E611D	0.05	mg/kg	<0.050	----
dichloropropylene, cis-1,3-	10061-01-5	E611D	0.03	mg/kg	<0.030	----
dichloropropylene, trans-1,3-	10061-02-6	E611D	0.03	mg/kg	<0.030	----
ethylbenzene	100-41-4	E611D	0.015	mg/kg	<0.015	----
hexane, n-	110-54-3	E611D	0.05	mg/kg	<0.050	----
methyl ethyl ketone [MEK]	78-93-3	E611D	0.5	mg/kg	<0.50	----
methyl isobutyl ketone [MIBK]	108-10-1	E611D	0.5	mg/kg	<0.50	----
methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.04	mg/kg	<0.040	----

Sub-Matrix: **Soil/Solid**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Volatile Organic Compounds (QCLot: 526635) - continued						
styrene	100-42-5	E611D	0.05	mg/kg	<0.050	----
tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.05	mg/kg	<0.050	----
tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.05	mg/kg	<0.050	----
tetrachloroethylene	127-18-4	E611D	0.05	mg/kg	<0.050	----
toluene	108-88-3	E611D	0.05	mg/kg	<0.050	----
trichloroethane, 1,1,1-	71-55-6	E611D	0.05	mg/kg	<0.050	----
trichloroethane, 1,1,2-	79-00-5	E611D	0.05	mg/kg	<0.050	----
trichloroethylene	79-01-6	E611D	0.01	mg/kg	<0.010	----
trichlorofluoromethane	75-69-4	E611D	0.05	mg/kg	<0.050	----
vinyl chloride	75-01-4	E611D	0.02	mg/kg	<0.020	----
xylene, m+p-	179601-23-1	E611D	0.03	mg/kg	<0.030	----
xylene, o-	95-47-6	E611D	0.03	mg/kg	<0.030	----
Hydrocarbons (QCLot: 526634)						
F1 (C6-C10)	----	E581.F1	5	mg/kg	<5.0	----
Hydrocarbons (QCLot: 527742)						
F2 (C10-C16)	----	E601.SG-L	10	mg/kg	<10	----
F3 (C16-C34)	----	E601.SG-L	50	mg/kg	<50	----
F4 (C34-C50)	----	E601.SG-L	50	mg/kg	<50	----
Hydrocarbons (QCLot: 531387)						
F2 (C10-C16)	----	E601.SG-L	10	mg/kg	<10	----
F3 (C16-C34)	----	E601.SG-L	50	mg/kg	<50	----
F4 (C34-C50)	----	E601.SG-L	50	mg/kg	<50	----
Hydrocarbons (QCLot: 533665)						
F4G-sg	----	E601.F4G-L	250	mg/kg	<250	----
Hydrocarbons (QCLot: 535526)						
F4G-sg	----	E601.F4G-L	250	mg/kg	<250	----
Hydrocarbons (QCLot: 536034)						
F4G-sg	----	E601.F4G-L	250	mg/kg	<250	----
Polycyclic Aromatic Hydrocarbons (QCLot: 526650)						
acenaphthene	83-32-9	E642F	0.05	mg/kg	<0.050	----
acenaphthylene	208-96-8	E642F	0.05	mg/kg	<0.050	----
anthracene	120-12-7	E642F	0.05	mg/kg	<0.050	----
benz(a)anthracene	56-55-3	E642F	0.05	mg/kg	<0.050	----
benzo(a)pyrene	50-32-8	E642F	0.05	mg/kg	<0.050	----
benzo(b+j)fluoranthene	n/a	E642F	0.05	mg/kg	<0.050	----
benzo(g,h,i)perylene	191-24-2	E642F	0.05	mg/kg	<0.050	----

Sub-Matrix: **Soil/Solid**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Polycyclic Aromatic Hydrocarbons (QCLot: 526650) - continued						
benzo(k)fluoranthene	207-08-9	E642F	0.05	mg/kg	<0.050	----
chrysene	218-01-9	E642F	0.05	mg/kg	<0.050	----
dibenz(a,h)anthracene	53-70-3	E642F	0.05	mg/kg	<0.050	----
fluoranthene	206-44-0	E642F	0.05	mg/kg	<0.050	----
fluorene	86-73-7	E642F	0.05	mg/kg	<0.050	----
indeno(1,2,3-c,d)pyrene	193-39-5	E642F	0.05	mg/kg	<0.050	----
methylnaphthalene, 1-	90-12-0	E642F	0.03	mg/kg	<0.030	----
methylnaphthalene, 2-	91-57-6	E642F	0.03	mg/kg	<0.030	----
naphthalene	91-20-3	E642F	0.01	mg/kg	<0.010	----
phenanthrene	85-01-8	E642F	0.05	mg/kg	<0.050	----
pyrene	129-00-0	E642F	0.05	mg/kg	<0.050	----
Polychlorinated Biphenyls (QCLot: 526651)						
Aroclor 1016	12674-11-2	E687	0.01	mg/kg	<0.010	----
Aroclor 1221	11104-28-2	E687	0.01	mg/kg	<0.010	----
Aroclor 1232	11141-16-5	E687	0.01	mg/kg	<0.010	----
Aroclor 1242	53469-21-9	E687	0.01	mg/kg	<0.010	----
Aroclor 1248	12672-29-6	E687	0.01	mg/kg	<0.010	----
Aroclor 1254	11097-69-1	E687	0.01	mg/kg	<0.010	----
Aroclor 1260	11096-82-5	E687	0.01	mg/kg	<0.010	----
Aroclor 1262	37324-23-5	E687	0.01	mg/kg	<0.010	----
Aroclor 1268	11100-14-4	E687	0.01	mg/kg	<0.010	----

Laboratory Control Sample (LCS) Report

A Laboratory Control Sample (LCS) is an analyte-free matrix that has been fortified (spiked) with test analytes at known concentration and processed in an identical manner to test samples. LCS results are expressed as percent recovery, and are used to monitor and control test method accuracy and precision, independent of test sample matrix.

Sub-Matrix: **Soil/Solid**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Concentration	LCS	Low	High	Qualifier
Physical Tests (QCLot: 526200)									
moisture	----	E144	0.25	%	50 %	99.6	90.0	110	----
Physical Tests (QCLot: 526293)									
conductivity (1:2 leachate)	----	E100-L	5	µS/cm	1409 µS/cm	95.3	90.0	110	----
Physical Tests (QCLot: 526568)									
pH (1:2 soil:CaCl2-aq)	----	E108A	----	pH units	7 pH units	100	98.0	102	----
Physical Tests (QCLot: 527203)									
moisture	----	E144	0.25	%	50 %	103	90.0	110	----
Physical Tests (QCLot: 527457)									
moisture	----	E144	0.25	%	50 %	100	90.0	110	----
Physical Tests (QCLot: 530101)									
moisture	----	E144	0.25	%	50 %	103	90.0	110	----
Cyanides (QCLot: 526403)									
cyanide, weak acid dissociable	----	E336A	0.05	mg/kg	2.5 mg/kg	97.7	80.0	125	----
Metals (QCLot: 526291)									
mercury	7439-97-6	E510	0.005	mg/kg	0.1 mg/kg	97.5	80.0	120	----
Metals (QCLot: 526292)									
antimony	7440-36-0	E440	0.1	mg/kg	100 mg/kg	114	80.0	120	----
arsenic	7440-38-2	E440	0.1	mg/kg	100 mg/kg	112	80.0	120	----
barium	7440-39-3	E440	0.5	mg/kg	25 mg/kg	108	80.0	120	----
beryllium	7440-41-7	E440	0.1	mg/kg	10 mg/kg	91.9	80.0	120	----
boron	7440-42-8	E440	5	mg/kg	100 mg/kg	90.0	80.0	120	----
cadmium	7440-43-9	E440	0.02	mg/kg	10 mg/kg	106	80.0	120	----
chromium	7440-47-3	E440	0.5	mg/kg	25 mg/kg	109	80.0	120	----
cobalt	7440-48-4	E440	0.1	mg/kg	25 mg/kg	109	80.0	120	----
copper	7440-50-8	E440	0.5	mg/kg	25 mg/kg	108	80.0	120	----
lead	7439-92-1	E440	0.5	mg/kg	50 mg/kg	105	80.0	120	----
molybdenum	7439-98-7	E440	0.1	mg/kg	25 mg/kg	108	80.0	120	----
nickel	7440-02-0	E440	0.5	mg/kg	50 mg/kg	109	80.0	120	----
selenium	7782-49-2	E440	0.2	mg/kg	100 mg/kg	111	80.0	120	----
silver	7440-22-4	E440	0.1	mg/kg	10 mg/kg	# 77.0	80.0	120	MES
thallium	7440-28-0	E440	0.05	mg/kg	100 mg/kg	106	80.0	120	----
uranium	7440-61-1	E440	0.05	mg/kg	0.5 mg/kg	94.8	80.0	120	----

Sub-Matrix: **Soil/Solid**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Concentration	LCS	Low	High	Qualifier
Metals (QCLot: 526292) - continued									
vanadium	7440-62-2	E440	0.2	mg/kg	50 mg/kg	112	80.0	120	----
zinc	7440-66-6	E440	2	mg/kg	50 mg/kg	108	80.0	120	----
Metals (QCLot: 526295)									
calcium, soluble ion content	7440-70-2	E484	0.5	mg/L	300 mg/L	103	70.0	130	----
magnesium, soluble ion content	7439-95-4	E484	0.5	mg/L	50 mg/L	102	70.0	130	----
sodium, soluble ion content	17341-25-2	E484	0.5	mg/L	50 mg/L	100	70.0	130	----
Metals (QCLot: 526296)									
boron, hot water soluble	7440-42-8	E487	0.1	mg/kg	1.33333 mg/kg	113	70.0	130	----
Speciated Metals (QCLot: 526326)									
chromium, hexavalent [Cr VI]	18540-29-9	E532	0.1	mg/kg	0.8 mg/kg	92.1	80.0	120	----
Volatile Organic Compounds (QCLot: 526635)									
acetone	67-64-1	E611D	0.5	mg/kg	3.475 mg/kg	125	60.0	140	----
benzene	71-43-2	E611D	0.005	mg/kg	3.475 mg/kg	111	70.0	130	----
bromodichloromethane	75-27-4	E611D	0.05	mg/kg	3.475 mg/kg	119	50.0	140	----
bromoform	75-25-2	E611D	0.05	mg/kg	3.475 mg/kg	100	70.0	130	----
bromomethane	74-83-9	E611D	0.05	mg/kg	3.475 mg/kg	78.8	50.0	140	----
carbon tetrachloride	56-23-5	E611D	0.05	mg/kg	3.475 mg/kg	107	70.0	130	----
chlorobenzene	108-90-7	E611D	0.05	mg/kg	3.475 mg/kg	97.5	70.0	130	----
chloroform	67-66-3	E611D	0.05	mg/kg	3.475 mg/kg	113	70.0	130	----
dibromochloromethane	124-48-1	E611D	0.05	mg/kg	3.475 mg/kg	103	60.0	130	----
dibromoethane, 1,2-	106-93-4	E611D	0.05	mg/kg	3.475 mg/kg	99.2	70.0	130	----
dichlorobenzene, 1,2-	95-50-1	E611D	0.05	mg/kg	3.475 mg/kg	98.3	70.0	130	----
dichlorobenzene, 1,3-	541-73-1	E611D	0.05	mg/kg	3.475 mg/kg	96.4	70.0	130	----
dichlorobenzene, 1,4-	106-46-7	E611D	0.05	mg/kg	3.475 mg/kg	98.8	70.0	130	----
dichlorodifluoromethane	75-71-8	E611D	0.05	mg/kg	3.475 mg/kg	80.8	50.0	140	----
dichloroethane, 1,1-	75-34-3	E611D	0.05	mg/kg	3.475 mg/kg	99.8	60.0	130	----
dichloroethane, 1,2-	107-06-2	E611D	0.05	mg/kg	3.475 mg/kg	113	60.0	130	----
dichloroethylene, 1,1-	75-35-4	E611D	0.05	mg/kg	3.475 mg/kg	101	60.0	130	----
dichloroethylene, cis-1,2-	156-59-2	E611D	0.05	mg/kg	3.475 mg/kg	108	70.0	130	----
dichloroethylene, trans-1,2-	156-60-5	E611D	0.05	mg/kg	3.475 mg/kg	106	60.0	130	----
dichloromethane	75-09-2	E611D	0.045	mg/kg	3.475 mg/kg	116	70.0	130	----
dichloropropane, 1,2-	78-87-5	E611D	0.05	mg/kg	3.475 mg/kg	110	70.0	130	----
dichloropropylene, cis-1,3-	10061-01-5	E611D	0.03	mg/kg	3.475 mg/kg	70.4	70.0	130	----
dichloropropylene, trans-1,3-	10061-02-6	E611D	0.03	mg/kg	3.475 mg/kg	# 46.4	70.0	130	LCS-L
ethylbenzene	100-41-4	E611D	0.015	mg/kg	3.475 mg/kg	78.2	70.0	130	----

Sub-Matrix: **Soil/Solid**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Concentration	LCS	Low	High	Qualifier
Volatile Organic Compounds (QCLot: 526635) - continued									
hexane, n-	110-54-3	E611D	0.05	mg/kg	3.475 mg/kg	95.6	70.0	130	----
methyl ethyl ketone [MEK]	78-93-3	E611D	0.5	mg/kg	3.475 mg/kg	115	60.0	140	----
methyl isobutyl ketone [MIBK]	108-10-1	E611D	0.5	mg/kg	3.475 mg/kg	81.2	60.0	140	----
methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.04	mg/kg	3.475 mg/kg	102	70.0	130	----
styrene	100-42-5	E611D	0.05	mg/kg	3.475 mg/kg	79.0	70.0	130	----
tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.05	mg/kg	3.475 mg/kg	98.7	60.0	130	----
tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.05	mg/kg	3.475 mg/kg	96.5	60.0	130	----
tetrachloroethylene	127-18-4	E611D	0.05	mg/kg	3.475 mg/kg	96.7	60.0	130	----
toluene	108-88-3	E611D	0.05	mg/kg	3.475 mg/kg	86.9	70.0	130	----
trichloroethane, 1,1,1-	71-55-6	E611D	0.05	mg/kg	3.475 mg/kg	106	60.0	130	----
trichloroethane, 1,1,2-	79-00-5	E611D	0.05	mg/kg	3.475 mg/kg	99.7	60.0	130	----
trichloroethylene	79-01-6	E611D	0.01	mg/kg	3.475 mg/kg	105	60.0	130	----
trichlorofluoromethane	75-69-4	E611D	0.05	mg/kg	3.475 mg/kg	102	50.0	140	----
vinyl chloride	75-01-4	E611D	0.02	mg/kg	3.475 mg/kg	89.4	60.0	140	----
xylene, m+p-	179601-23-1	E611D	0.03	mg/kg	6.95 mg/kg	87.3	70.0	130	----
xylene, o-	95-47-6	E611D	0.03	mg/kg	3.475 mg/kg	77.0	70.0	130	----
Hydrocarbons (QCLot: 526634)									
F1 (C6-C10)	----	E581.F1	5	mg/kg	69.1875 mg/kg	104	80.0	120	----
Hydrocarbons (QCLot: 527742)									
F2 (C10-C16)	----	E601.SG-L	10	mg/kg	862.575 mg/kg	100	70.0	130	----
F3 (C16-C34)	----	E601.SG-L	50	mg/kg	1227.23 mg/kg	89.5	70.0	130	----
F4 (C34-C50)	----	E601.SG-L	50	mg/kg	777.05 mg/kg	130	70.0	130	----
Hydrocarbons (QCLot: 531387)									
F2 (C10-C16)	----	E601.SG-L	10	mg/kg	891.725 mg/kg	95.7	70.0	130	----
F3 (C16-C34)	----	E601.SG-L	50	mg/kg	1107.075 mg/kg	99.4	70.0	130	----
F4 (C34-C50)	----	E601.SG-L	50	mg/kg	989.25 mg/kg	91.4	70.0	130	----
Hydrocarbons (QCLot: 533665)									
F4G-sg	----	E601.F4G-L	250	mg/kg	1298.6 mg/kg	93.0	70.0	130	----
Hydrocarbons (QCLot: 535526)									
F4G-sg	----	E601.F4G-L	250	mg/kg	1298.6 mg/kg	95.4	70.0	130	----
Hydrocarbons (QCLot: 536034)									
F4G-sg	----	E601.F4G-L	250	mg/kg	1298.6 mg/kg	95.4	70.0	130	----
Polycyclic Aromatic Hydrocarbons (QCLot: 526650)									
acenaphthene	83-32-9	E642F	0.05	mg/kg	0.8 mg/kg	87.5	60.0	130	----
acenaphthylene	208-96-8	E642F	0.05	mg/kg	0.8 mg/kg	80.2	60.0	130	----

Sub-Matrix: **Soil/Solid**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Concentration	LCS	Low	High	Qualifier
Polycyclic Aromatic Hydrocarbons (QCLot: 526650) - continued									
anthracene	120-12-7	E642F	0.05	mg/kg	0.8 mg/kg	97.8	60.0	130	----
benz(a)anthracene	56-55-3	E642F	0.05	mg/kg	0.8 mg/kg	94.1	60.0	130	----
benzo(a)pyrene	50-32-8	E642F	0.05	mg/kg	0.8 mg/kg	104	60.0	130	----
benzo(b+j)fluoranthene	n/a	E642F	0.05	mg/kg	0.8 mg/kg	68.0	60.0	130	----
benzo(g,h,i)perylene	191-24-2	E642F	0.05	mg/kg	0.8 mg/kg	90.7	60.0	130	----
benzo(k)fluoranthene	207-08-9	E642F	0.05	mg/kg	0.8 mg/kg	76.5	60.0	130	----
chrysene	218-01-9	E642F	0.05	mg/kg	0.8 mg/kg	96.9	60.0	130	----
dibenz(a,h)anthracene	53-70-3	E642F	0.05	mg/kg	0.8 mg/kg	81.0	60.0	130	----
fluoranthene	206-44-0	E642F	0.05	mg/kg	0.8 mg/kg	92.3	60.0	130	----
fluorene	86-73-7	E642F	0.05	mg/kg	0.8 mg/kg	89.2	60.0	130	----
indeno(1,2,3-c,d)pyrene	193-39-5	E642F	0.05	mg/kg	0.8 mg/kg	76.3	60.0	130	----
methylnaphthalene, 1-	90-12-0	E642F	0.03	mg/kg	0.8 mg/kg	81.0	60.0	130	----
methylnaphthalene, 2-	91-57-6	E642F	0.03	mg/kg	0.8 mg/kg	81.5	60.0	130	----
naphthalene	91-20-3	E642F	0.01	mg/kg	0.8 mg/kg	93.1	60.0	130	----
phenanthrene	85-01-8	E642F	0.05	mg/kg	0.8 mg/kg	92.5	60.0	130	----
pyrene	129-00-0	E642F	0.05	mg/kg	0.8 mg/kg	91.7	60.0	130	----
Polychlorinated Biphenyls (QCLot: 526651)									
Aroclor 1016	12674-11-2	E687	0.01	mg/kg	0.2 mg/kg	99.8	60.0	140	----
Aroclor 1221	11104-28-2	E687	0.01	mg/kg	0.2 mg/kg	99.8	60.0	140	----
Aroclor 1232	11141-16-5	E687	0.01	mg/kg	0.2 mg/kg	99.8	60.0	140	----
Aroclor 1242	53469-21-9	E687	0.01	mg/kg	0.2 mg/kg	99.8	60.0	140	----
Aroclor 1248	12672-29-6	E687	0.01	mg/kg	0.2 mg/kg	96.6	60.0	140	----
Aroclor 1254	11097-69-1	E687	0.01	mg/kg	0.2 mg/kg	96.8	60.0	140	----
Aroclor 1260	11096-82-5	E687	0.01	mg/kg	0.2 mg/kg	101	60.0	140	----
Aroclor 1262	37324-23-5	E687	0.01	mg/kg	0.2 mg/kg	101	60.0	140	----
Aroclor 1268	11100-14-4	E687	0.01	mg/kg	0.2 mg/kg	101	60.0	140	----

Qualifiers

Qualifier	Description
LCS-L	*Lab Control Sample recovery was below ALS DQO. Reference Material and/or Matrix Spike results were acceptable. Non-detected sample results are considered reliable. Other results, if reported, have been qualified.*
MES	*Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).*

Matrix Spike (MS) Report

A Matrix Spike (MS) is a randomly selected intra-laboratory replicate sample that has been fortified (spiked) with test analytes at known concentration, and processed in an identical manner to test samples. Matrix Spikes provide information regarding analyte recovery and potential matrix effects. MS DQO exceedances due to sample matrix may sometimes be unavoidable; in such cases, test results for the associated sample (or similar samples) may be subject to bias. ND – Recovery not determined, background level >= 1x spike level.

Sub-Matrix: **Soil/Solid**

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Cyanides (QCLot: 526403)										
WT2205639-001	S-12581540-220614-JB-BH2-22-0.0-0.3	cyanide, weak acid dissociable	----	E336A	1.24 mg/kg	2.5 mg/kg	99.1	70.0	130	----
Volatile Organic Compounds (QCLot: 526635)										
WT2205622-001	Anonymous	acetone	67-64-1	E611D	2.60 mg/kg	3.125 mg/kg	105	50.0	140	----
		benzene	71-43-2	E611D	2.62 mg/kg	3.125 mg/kg	105	50.0	140	----
		bromodichloromethane	75-27-4	E611D	2.79 mg/kg	3.125 mg/kg	112	50.0	140	----
		bromoform	75-25-2	E611D	2.47 mg/kg	3.125 mg/kg	99.4	50.0	140	----
		bromomethane	74-83-9	E611D	2.71 mg/kg	3.125 mg/kg	109	50.0	140	----
		carbon tetrachloride	56-23-5	E611D	2.47 mg/kg	3.125 mg/kg	99.4	50.0	140	----
		chlorobenzene	108-90-7	E611D	2.36 mg/kg	3.125 mg/kg	95.1	50.0	140	----
		chloroform	67-66-3	E611D	2.63 mg/kg	3.125 mg/kg	106	50.0	140	----
		dibromochloromethane	124-48-1	E611D	2.51 mg/kg	3.125 mg/kg	101	50.0	140	----
		dibromoethane, 1,2-	106-93-4	E611D	2.50 mg/kg	3.125 mg/kg	100	50.0	140	----
		dichlorobenzene, 1,2-	95-50-1	E611D	2.38 mg/kg	3.125 mg/kg	95.8	50.0	140	----
		dichlorobenzene, 1,3-	541-73-1	E611D	2.30 mg/kg	3.125 mg/kg	92.4	50.0	140	----
		dichlorobenzene, 1,4-	106-46-7	E611D	2.35 mg/kg	3.125 mg/kg	94.4	50.0	140	----
		dichlorodifluoromethane	75-71-8	E611D	2.43 mg/kg	3.125 mg/kg	97.6	50.0	140	----
		dichloroethane, 1,1-	75-34-3	E611D	2.30 mg/kg	3.125 mg/kg	92.6	50.0	140	----
		dichloroethane, 1,2-	107-06-2	E611D	2.65 mg/kg	3.125 mg/kg	107	50.0	140	----
		dichloroethylene, 1,1-	75-35-4	E611D	2.37 mg/kg	3.125 mg/kg	95.3	50.0	140	----
		dichloroethylene, cis-1,2-	156-59-2	E611D	2.54 mg/kg	3.125 mg/kg	102	50.0	140	----
		dichloroethylene, trans-1,2-	156-60-5	E611D	2.46 mg/kg	3.125 mg/kg	99.2	50.0	140	----
		dichloromethane	75-09-2	E611D	2.68 mg/kg	3.125 mg/kg	108	50.0	140	----
		dichloropropane, 1,2-	78-87-5	E611D	2.60 mg/kg	3.125 mg/kg	105	50.0	140	----
		dichloropropylene, cis-1,3-	10061-01-5	E611D	2.56 mg/kg	3.125 mg/kg	103	50.0	140	----
		dichloropropylene, trans-1,3-	10061-02-6	E611D	2.26 mg/kg	3.125 mg/kg	91.0	50.0	140	----
		ethylbenzene	100-41-4	E611D	1.98 mg/kg	3.125 mg/kg	79.7	50.0	140	----
		hexane, n-	110-54-3	E611D	2.33 mg/kg	3.125 mg/kg	93.7	50.0	140	----
		methyl ethyl ketone [MEK]	78-93-3	E611D	2.60 mg/kg	3.125 mg/kg	105	50.0	140	----
		methyl isobutyl ketone [MIBK]	108-10-1	E611D	1.90 mg/kg	3.125 mg/kg	76.6	50.0	140	----
		methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	2.46 mg/kg	3.125 mg/kg	98.9	50.0	140	----
		styrene	100-42-5	E611D	2.02 mg/kg	3.125 mg/kg	81.1	50.0	140	----

Sub-Matrix: **Soil/Solid**

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Volatile Organic Compounds (QCLot: 526635) - continued										
WT2205622-001	Anonymous	tetrachloroethane, 1,1,1,2-	630-20-6	E611D	2.39 mg/kg	3.125 mg/kg	96.2	50.0	140	----
		tetrachloroethane, 1,1,2,2-	79-34-5	E611D	2.40 mg/kg	3.125 mg/kg	96.7	50.0	140	----
		tetrachloroethylene	127-18-4	E611D	2.32 mg/kg	3.125 mg/kg	93.4	50.0	140	----
		toluene	108-88-3	E611D	2.15 mg/kg	3.125 mg/kg	86.7	50.0	140	----
		trichloroethane, 1,1,1-	71-55-6	E611D	2.47 mg/kg	3.125 mg/kg	99.5	50.0	140	----
		trichloroethane, 1,1,2-	79-00-5	E611D	2.44 mg/kg	3.125 mg/kg	98.4	50.0	140	----
		trichloroethylene	79-01-6	E611D	2.48 mg/kg	3.125 mg/kg	100.0	50.0	140	----
		trichlorofluoromethane	75-69-4	E611D	2.52 mg/kg	3.125 mg/kg	101	50.0	140	----
		vinyl chloride	75-01-4	E611D	2.33 mg/kg	3.125 mg/kg	93.9	50.0	140	----
		xylene, m+p-	179601-23-1	E611D	4.25 mg/kg	6.25 mg/kg	85.4	50.0	140	----
		xylene, o-	95-47-6	E611D	1.94 mg/kg	3.125 mg/kg	78.0	50.0	140	----
Hydrocarbons (QCLot: 526634)										
WT2205622-001	Anonymous	F1 (C6-C10)	----	E581.F1	54.3 mg/kg	62.5 mg/kg	109	60.0	140	----
Hydrocarbons (QCLot: 527742)										
WT2205760-004	Anonymous	F2 (C10-C16)	----	E601.SG-L	653 mg/kg	862.575 mg/kg	100	60.0	140	----
		F3 (C16-C34)	----	E601.SG-L	820 mg/kg	1227.213 mg/kg	88.6	60.0	140	----
		F4 (C34-C50)	----	E601.SG-L	748 mg/kg	777.05 mg/kg	128	60.0	140	----
Hydrocarbons (QCLot: 531387)										
WT2205639-011	S-12581540-220614-JB-BH9-22-0.0-0.6X	F2 (C10-C16)	----	E601.SG-L	691 mg/kg	891.725 mg/kg	97.2	60.0	140	----
		F3 (C16-C34)	----	E601.SG-L	ND mg/kg	1107.075 mg/kg	ND	60.0	140	MS-B
		F4 (C34-C50)	----	E601.SG-L	ND mg/kg	989.25 mg/kg	ND	60.0	140	MS-B
Hydrocarbons (QCLot: 535526)										
WT2205639-011	S-12581540-220614-JB-BH9-22-0.0-0.6X	F4G-sg	----	E601.F4G-L	ND mg/kg	1298.6 mg/kg	ND	60.0	140	----
Polycyclic Aromatic Hydrocarbons (QCLot: 526650)										
WT2205639-015	S-12581540-220613-JB-BH1-22-0.0-0.6	acenaphthene	83-32-9	E642F	0.723 mg/kg	0.8 mg/kg	90.9	50.0	140	----
		acenaphthylene	208-96-8	E642F	0.800 mg/kg	0.8 mg/kg	100	50.0	140	----
		anthracene	120-12-7	E642F	0.814 mg/kg	0.8 mg/kg	102	50.0	140	----
		benz(a)anthracene	56-55-3	E642F	0.827 mg/kg	0.8 mg/kg	104	50.0	140	----
		benzo(a)pyrene	50-32-8	E642F	0.850 mg/kg	0.8 mg/kg	107	50.0	140	----
		benzo(b+j)fluoranthene	n/a	E642F	0.783 mg/kg	0.8 mg/kg	98.3	50.0	140	----
		benzo(g,h,i)perylene	191-24-2	E642F	0.719 mg/kg	0.8 mg/kg	90.4	50.0	140	----
		benzo(k)fluoranthene	207-08-9	E642F	0.732 mg/kg	0.8 mg/kg	91.9	50.0	140	----
		chrysene	218-01-9	E642F	0.764 mg/kg	0.8 mg/kg	96.0	50.0	140	----
		dibenz(a,h)anthracene	53-70-3	E642F	0.732 mg/kg	0.8 mg/kg	92.0	50.0	140	----

Sub-Matrix: **Soil/Solid**

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Polycyclic Aromatic Hydrocarbons (QCLot: 526650) - continued										
WT2205639-015	S-12581540-220613-JB-BH1-22-0.0-0.6	fluoranthene	206-44-0	E642F	0.807 mg/kg	0.8 mg/kg	101	50.0	140	----
		fluorene	86-73-7	E642F	0.752 mg/kg	0.8 mg/kg	94.5	50.0	140	----
		indeno(1,2,3-c,d)pyrene	193-39-5	E642F	0.785 mg/kg	0.8 mg/kg	98.6	50.0	140	----
		methylnaphthalene, 1-	90-12-0	E642F	0.644 mg/kg	0.8 mg/kg	80.9	50.0	140	----
		methylnaphthalene, 2-	91-57-6	E642F	0.643 mg/kg	0.8 mg/kg	80.8	50.0	140	----
		naphthalene	91-20-3	E642F	0.722 mg/kg	0.8 mg/kg	90.7	50.0	140	----
		phenanthrene	85-01-8	E642F	0.733 mg/kg	0.8 mg/kg	92.0	50.0	140	----
		pyrene	129-00-0	E642F	0.797 mg/kg	0.8 mg/kg	100	50.0	140	----
Polychlorinated Biphenyls (QCLot: 526651)										
WT2205639-015	S-12581540-220613-JB-BH1-22-0.0-0.6	Aroclor 1016	12674-11-2	E687	0.220 mg/kg	0.2 mg/kg	110	50.0	150	----
		Aroclor 1221	11104-28-2	E687	0.220 mg/kg	0.2 mg/kg	110	50.0	150	----
		Aroclor 1232	11141-16-5	E687	0.220 mg/kg	0.2 mg/kg	110	50.0	150	----
		Aroclor 1242	53469-21-9	E687	0.206 mg/kg	0.2 mg/kg	103	50.0	150	----
		Aroclor 1248	12672-29-6	E687	0.220 mg/kg	0.2 mg/kg	110	50.0	150	----
		Aroclor 1254	11097-69-1	E687	ND mg/kg	0.2 mg/kg	ND	50.0	150	----
		Aroclor 1260	11096-82-5	E687	0.232 mg/kg	0.2 mg/kg	116	50.0	150	----
		Aroclor 1262	37324-23-5	E687	0.294 mg/kg	0.2 mg/kg	148	50.0	150	----
		Aroclor 1268	11100-14-4	E687	0.294 mg/kg	0.2 mg/kg	148	50.0	150	----

Qualifiers

Qualifier	Description
MS-B	*Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.*

Reference Material (RM) Report

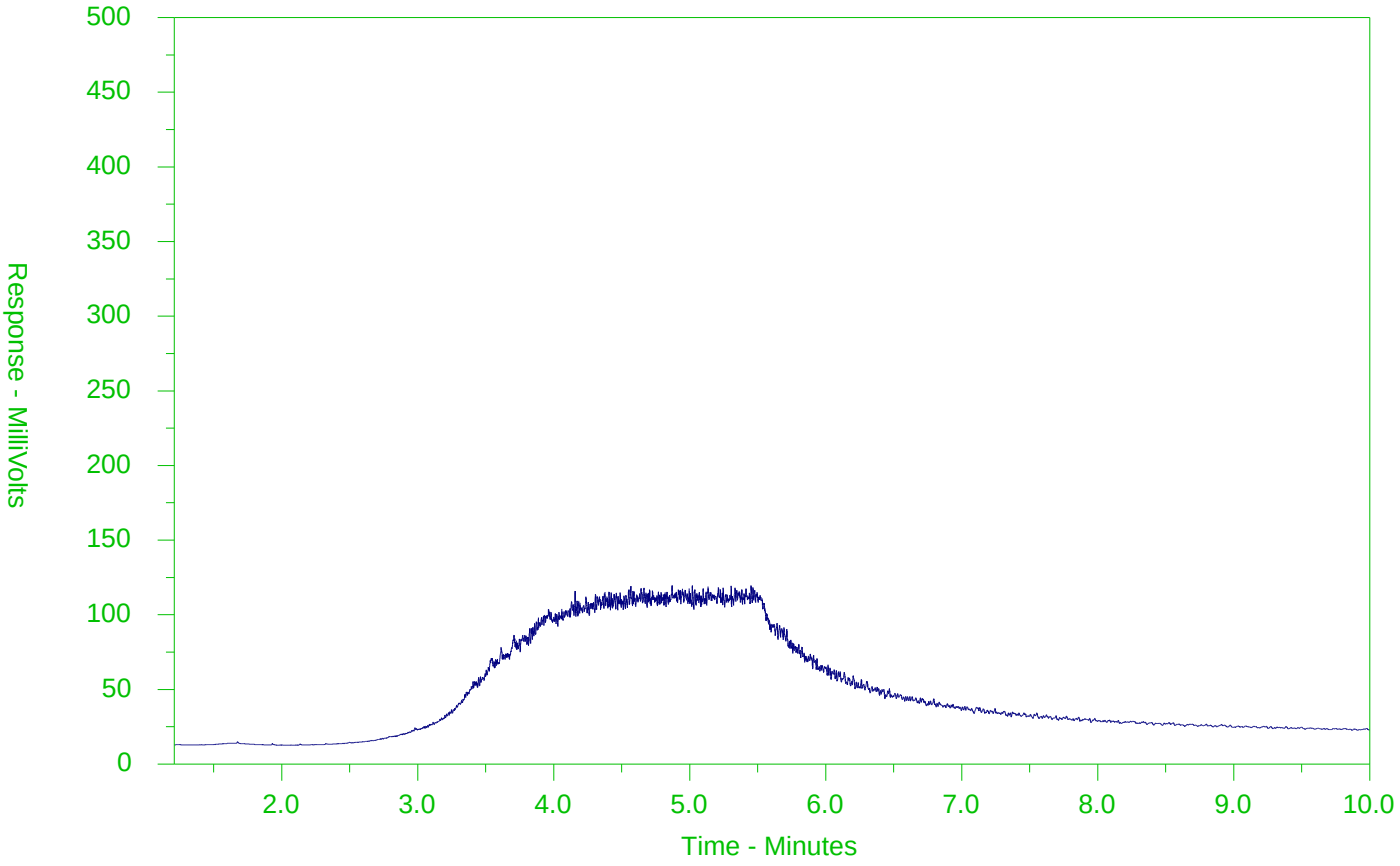
A Reference Material (RM) is a homogenous material with known and well-established analyte concentrations. RMs are processed in an identical manner to test samples, and are used to monitor and control the accuracy and precision of a test method for a typical sample matrix. RM results are expressed as percent recovery of the target analyte concentration. RM targets may be certified target concentrations provided by the RM supplier, or may be ALS long-term mean values (for empirical test methods).

Sub-Matrix:

					Reference Material (RM) Report				
					RM Target	Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Reference Material ID	Analyte	CAS Number	Method	Concentration	RM	Low	High	Qualifier
Physical Tests (QCLot: 526293)									
	RM	conductivity (1:2 leachate)	----	E100-L	3396 µS/cm	99.2	70.0	130	----
Metals (QCLot: 526291)									
	RM	mercury	7439-97-6	E510	0.0585 mg/kg	107	70.0	130	----
Metals (QCLot: 526292)									
	RM	antimony	7440-36-0	E440	3.99 mg/kg	120	70.0	130	----
	RM	arsenic	7440-38-2	E440	3.73 mg/kg	110	70.0	130	----
	RM	barium	7440-39-3	E440	105 mg/kg	119	70.0	130	----
	RM	beryllium	7440-41-7	E440	0.349 mg/kg	102	70.0	130	----
	RM	boron	7440-42-8	E440	8.5 mg/kg	102	40.0	160	----
	RM	chromium	7440-47-3	E440	101 mg/kg	111	70.0	130	----
	RM	cobalt	7440-48-4	E440	6.9 mg/kg	112	70.0	130	----
	RM	copper	7440-50-8	E440	123 mg/kg	110	70.0	130	----
	RM	lead	7439-92-1	E440	267 mg/kg	111	70.0	130	----
	RM	molybdenum	7439-98-7	E440	1.03 mg/kg	112	70.0	130	----
	RM	nickel	7440-02-0	E440	26.7 mg/kg	112	70.0	130	----
	RM	silver	7440-22-4	E440	4.06 mg/kg	106	70.0	130	----
	RM	thallium	7440-28-0	E440	0.0786 mg/kg	111	40.0	160	----
	RM	uranium	7440-61-1	E440	0.52 mg/kg	94.1	70.0	130	----
	RM	vanadium	7440-62-2	E440	32.7 mg/kg	112	70.0	130	----
	RM	zinc	7440-66-6	E440	297 mg/kg	107	70.0	130	----
Metals (QCLot: 526295)									
	RM	calcium, soluble ion content	7440-70-2	E484	178.9 mg/L	106	70.0	130	----
	RM	magnesium, soluble ion content	7439-95-4	E484	53.95 mg/L	106	70.0	130	----
	RM	sodium, soluble ion content	17341-25-2	E484	199.6 mg/L	102	70.0	130	----
Metals (QCLot: 526296)									
	RM	boron, hot water soluble	7440-42-8	E487	5.92 mg/kg	104	70.0	130	----
Speciated Metals (QCLot: 526326)									
	RM	chromium, hexavalent [Cr VI]	18540-29-9	E532	131 mg/kg	101	70.0	130	----

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2205639-001-E601.SG-L
Client Sample ID: S-12581540-220614-JB-BH2-22-0.0-0.3



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →	← Motor Oils/Lube Oils/Grease →		
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

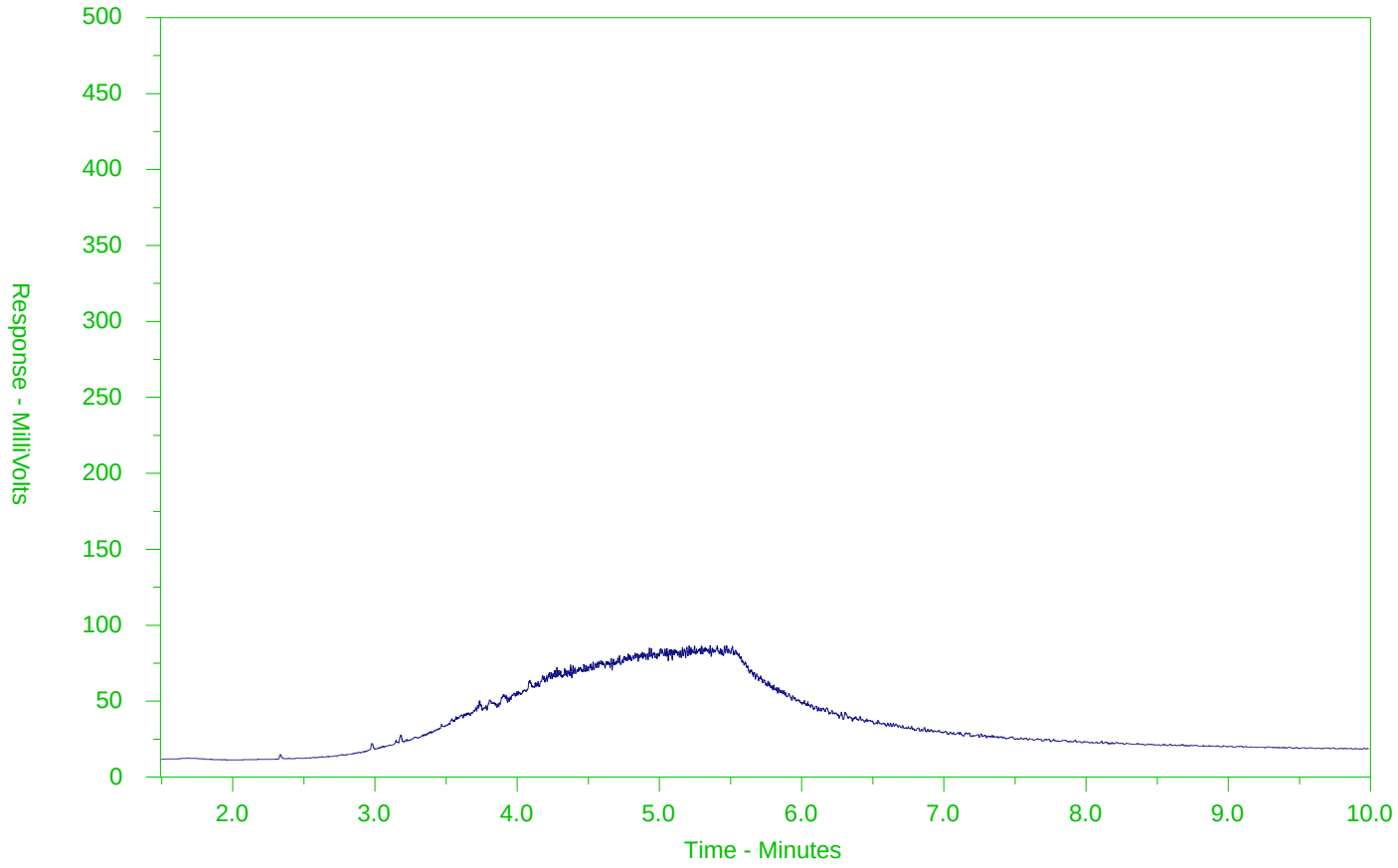
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2205639-002-E601.SG-L
Client Sample ID: S-12581540-220614-JB-BH3-22-0.0-0.6



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

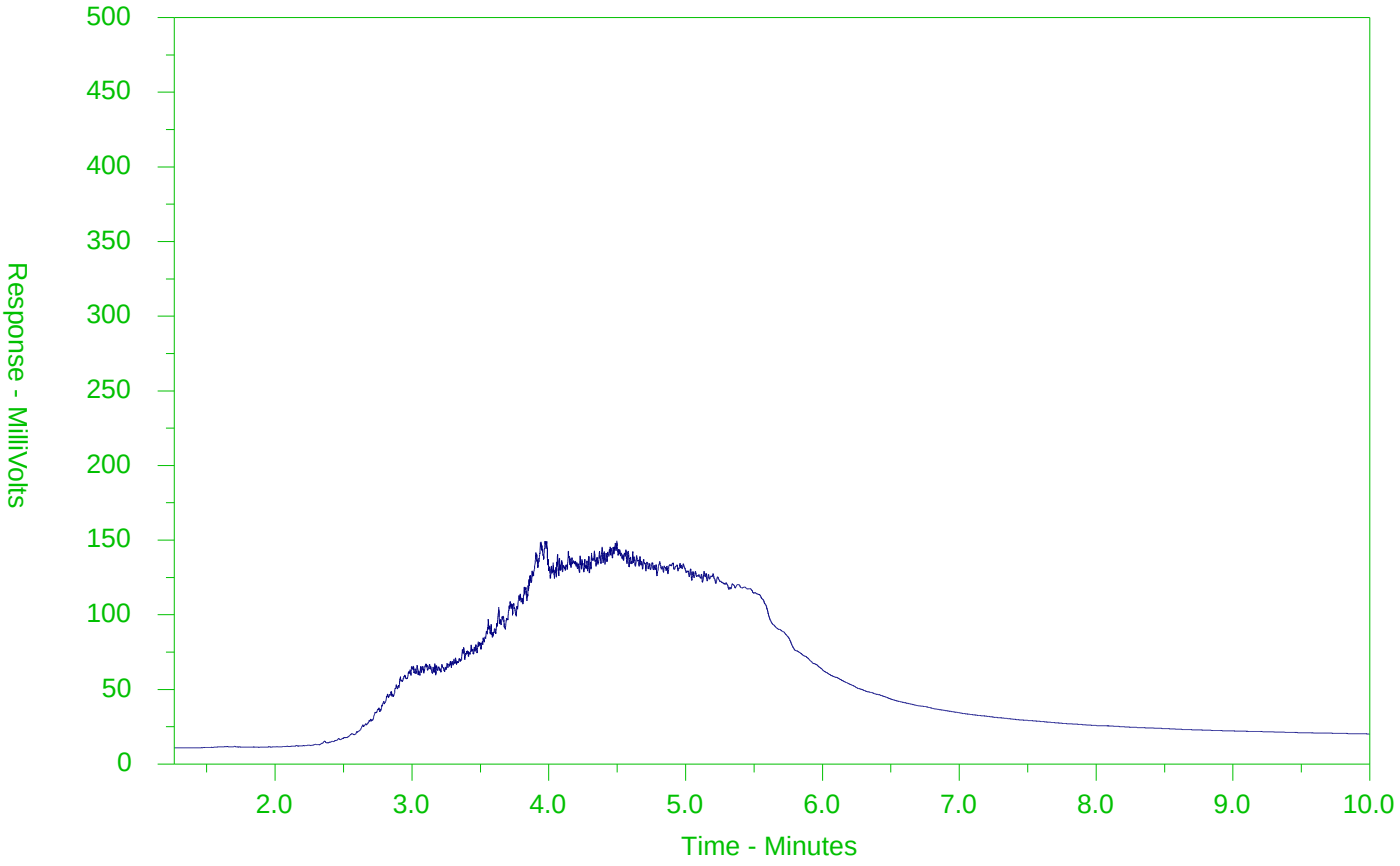
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2205639-004-E601.SG-L
Client Sample ID: S-12581540-220614-JB-BH4-22-0.0-0.6



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →	← Motor Oils/Lube Oils/Grease →		
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

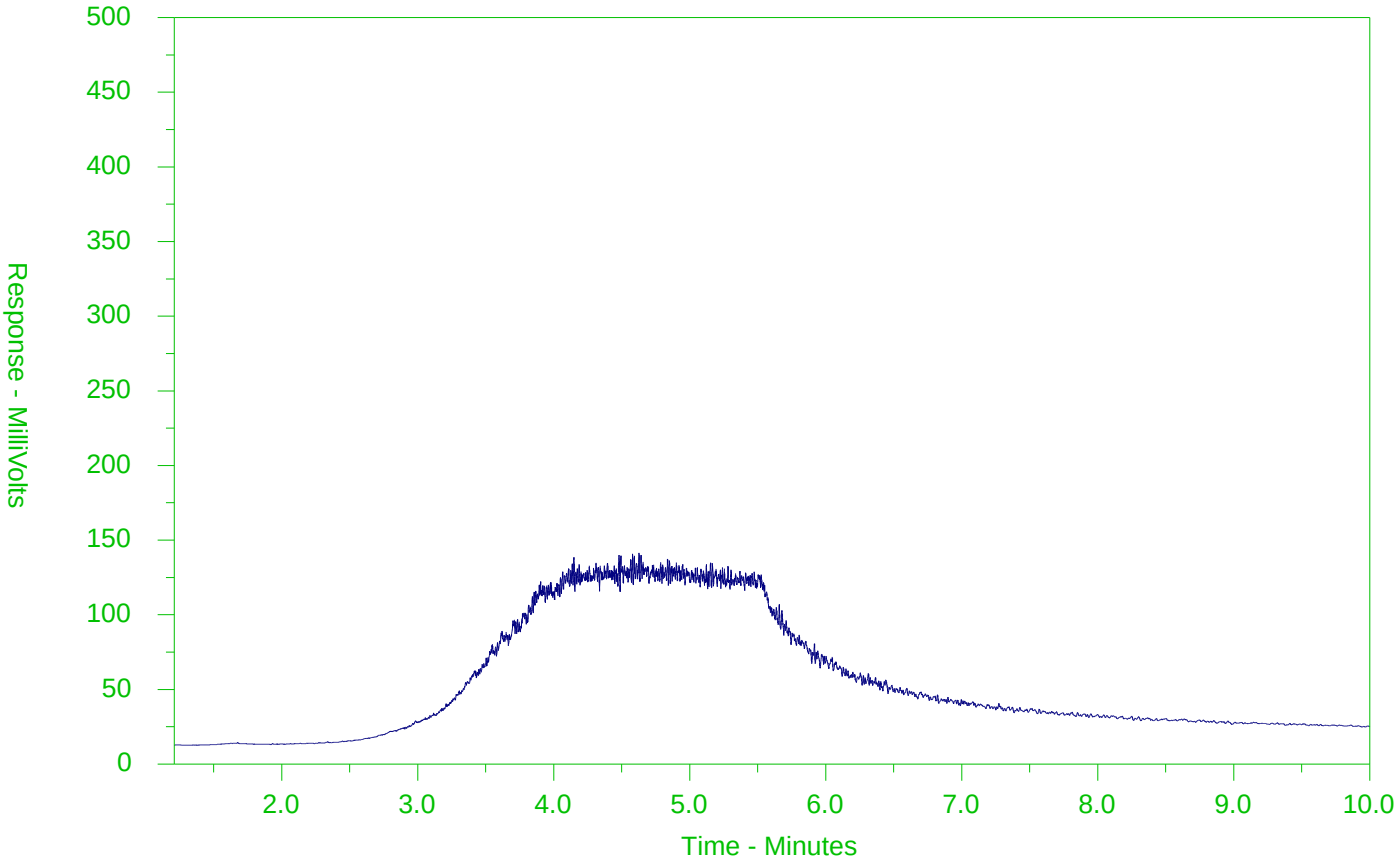
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2205639-006-E601.SG-L
Client Sample ID: S-12581540-220614-JB-BH5-22-0.0-0.6



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →	← Motor Oils/Lube Oils/Grease →		
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

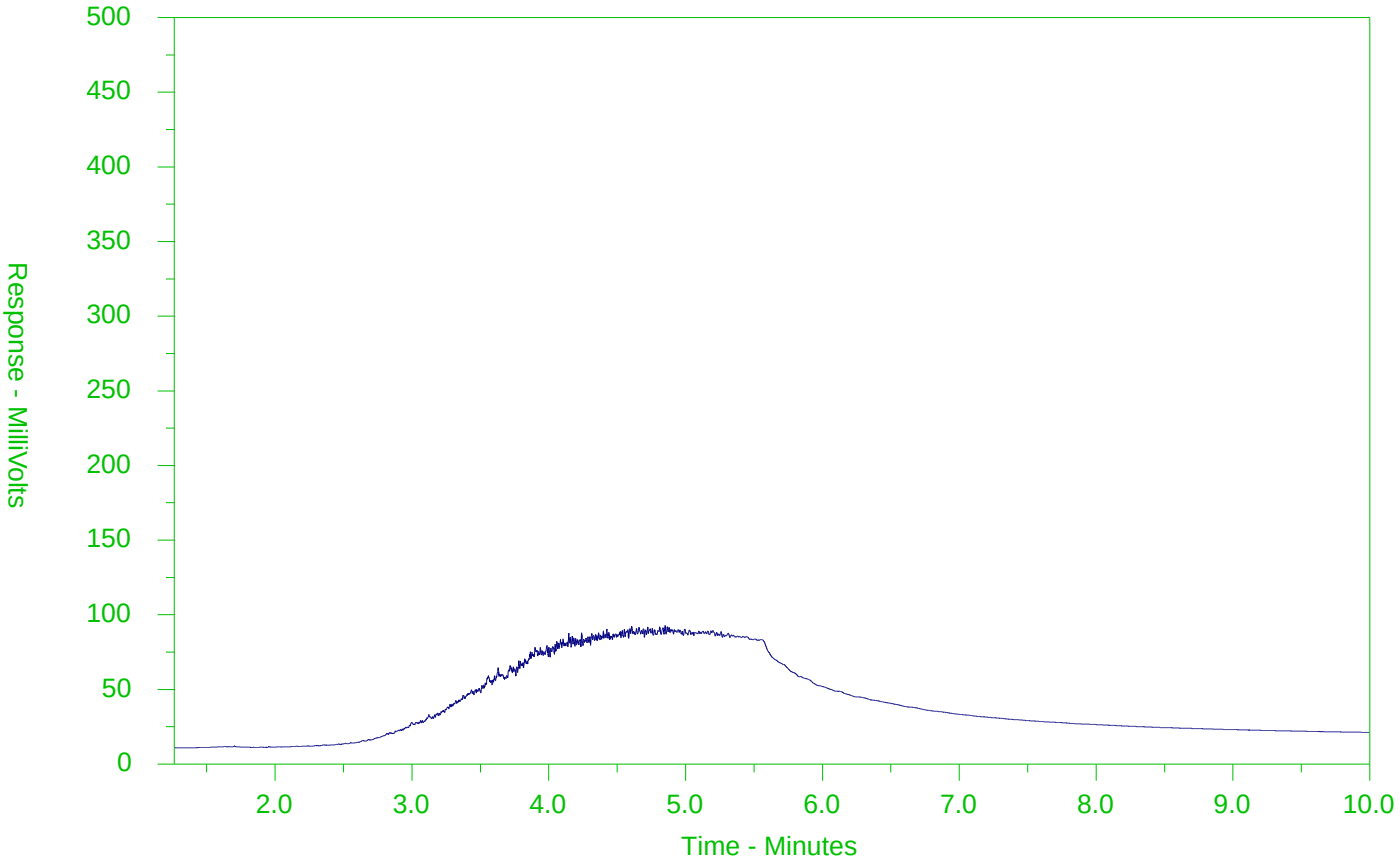
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2205639-007-E601.SG-L
Client Sample ID: S-12581540-220614-JB-BH6-22-0.0-0.6



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →	← Motor Oils/Lube Oils/Grease →		
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

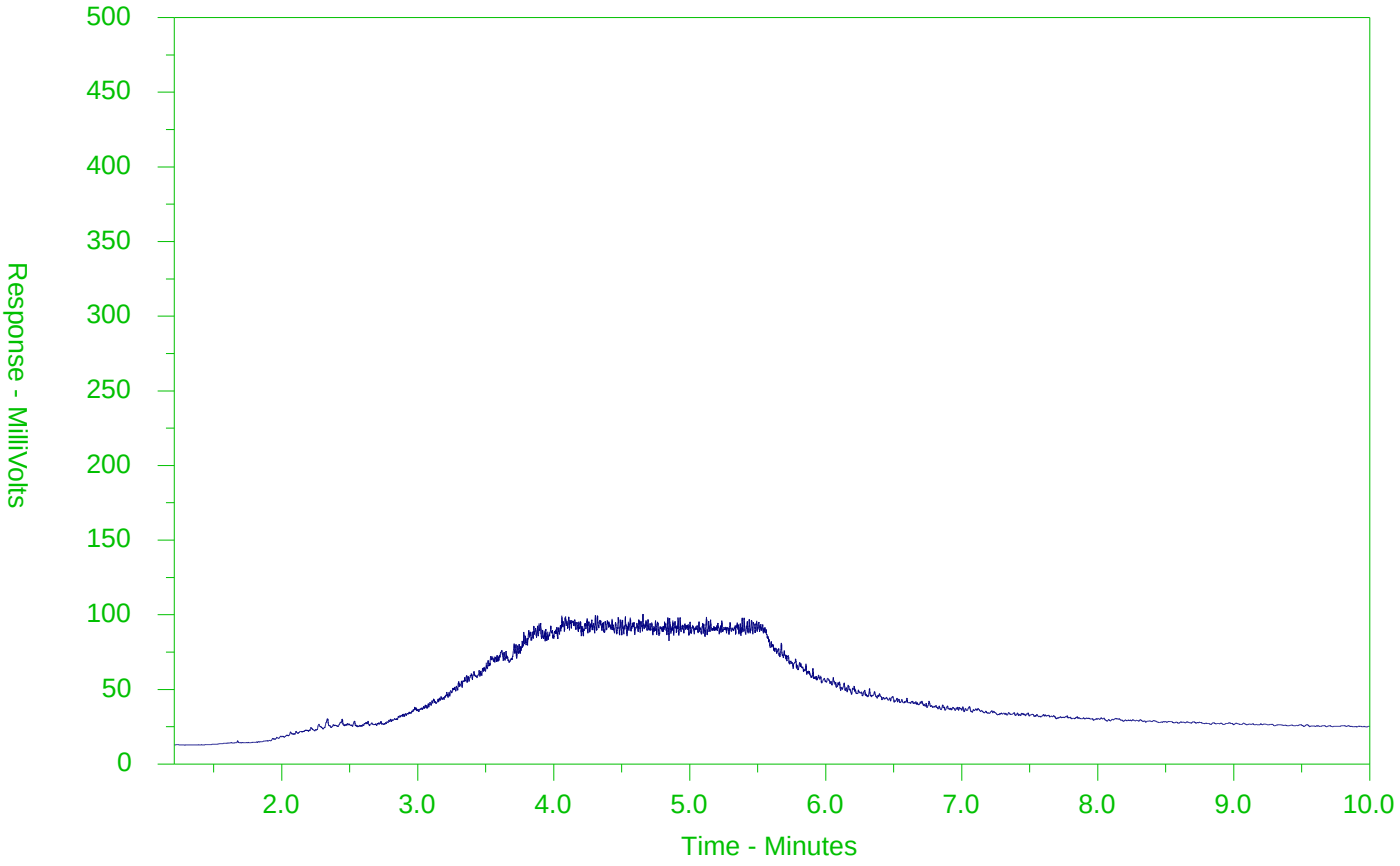
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2205639-008-E601.SG-L
Client Sample ID: S-12581540-220614-JB-BH8-22-0.0-0.6



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →	← Motor Oils/Lube Oils/Grease →		
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

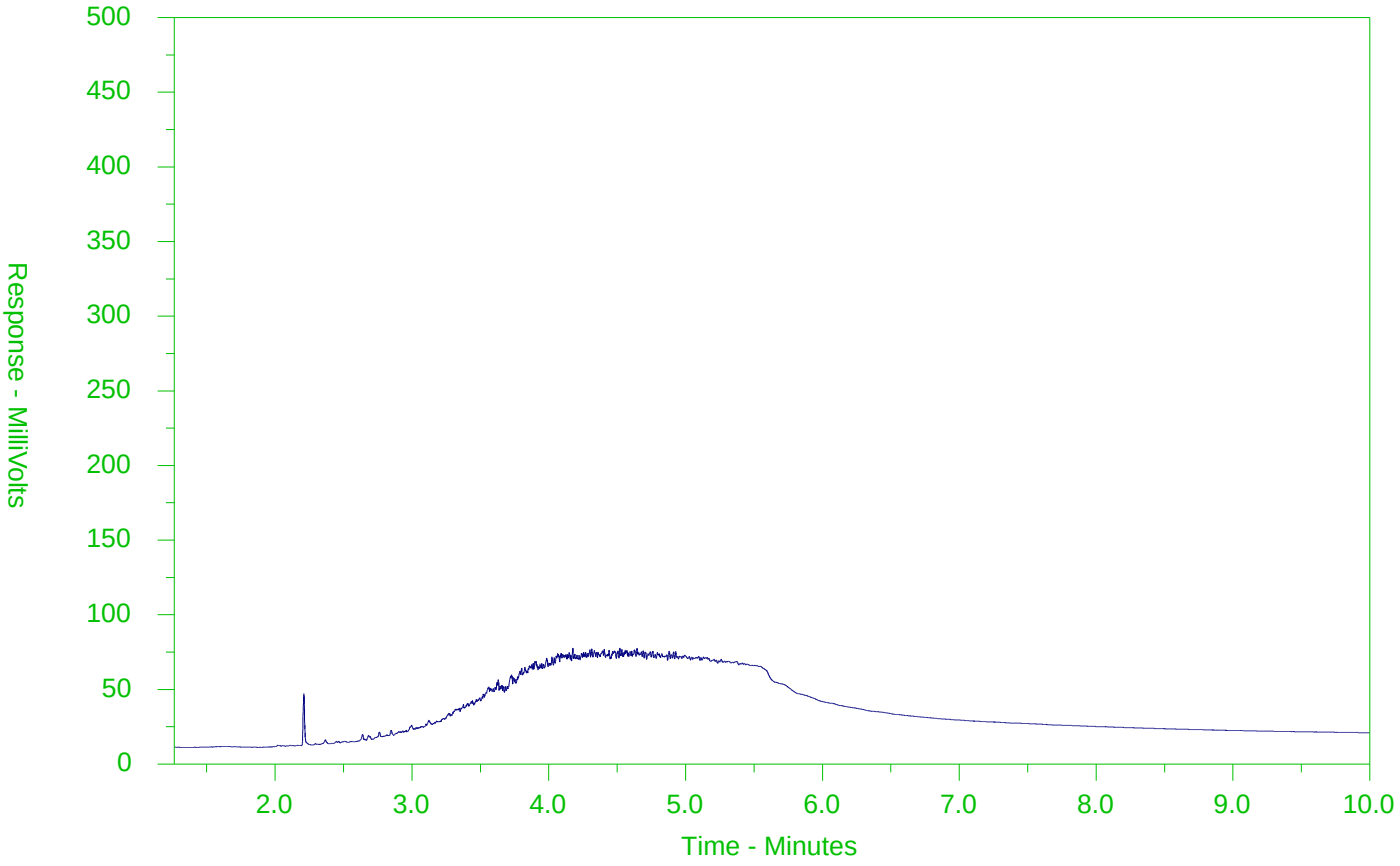
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2205639-010-E601.SG-L
Client Sample ID: S-12581540-220614-JB-BH9-22-0.0-0.6



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →	← Motor Oils/Lube Oils/Grease →		
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

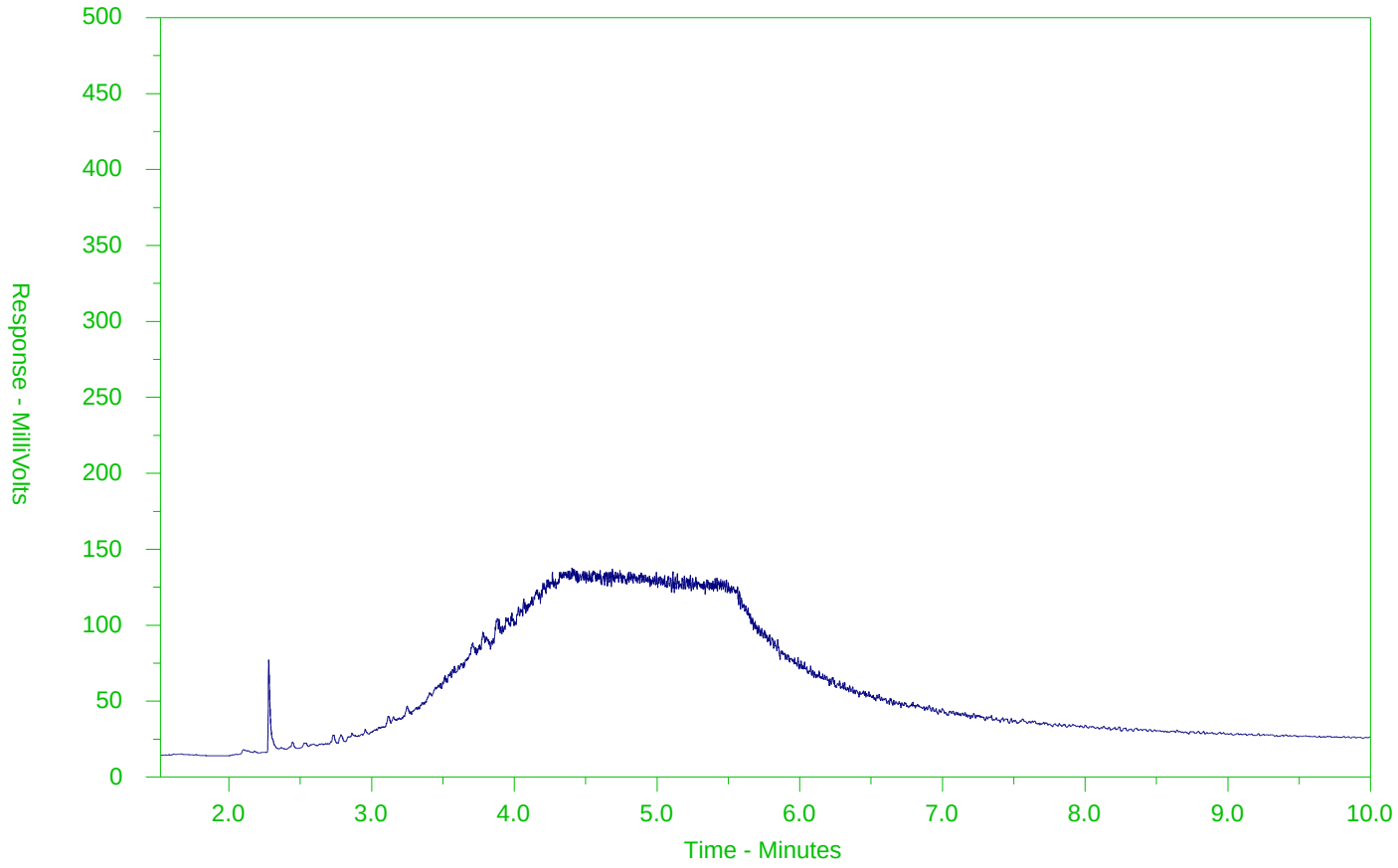
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2205639-011-E601.SG-L
Client Sample ID: S-12581540-220614-JB-BH9-22-0.0-0.6X



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

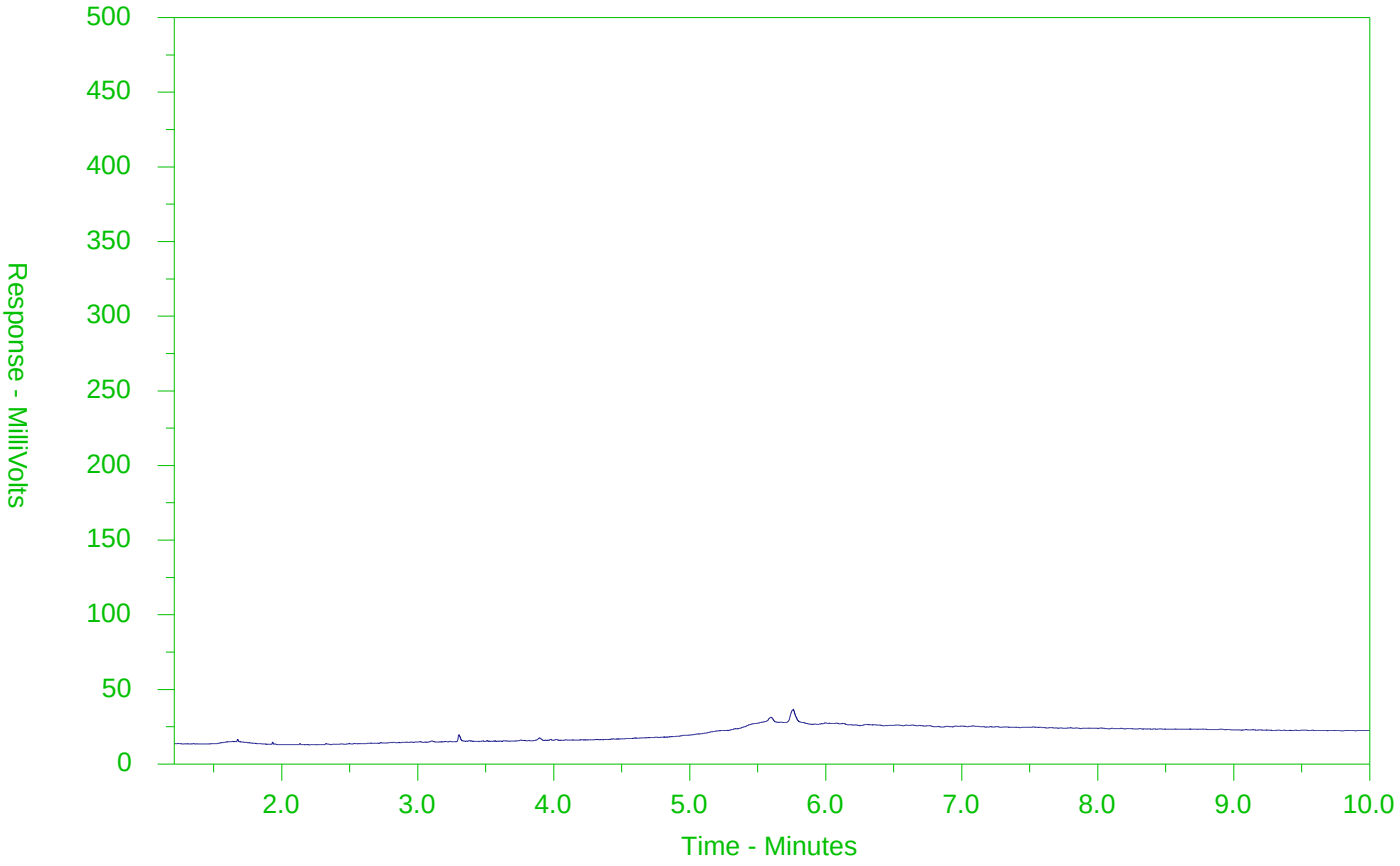
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2205639-013-E601.SG-L
Client Sample ID: S-12581540-220610-JB-BH14-22-0.8-1.4



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →	← Motor Oils/Lube Oils/Grease →		
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

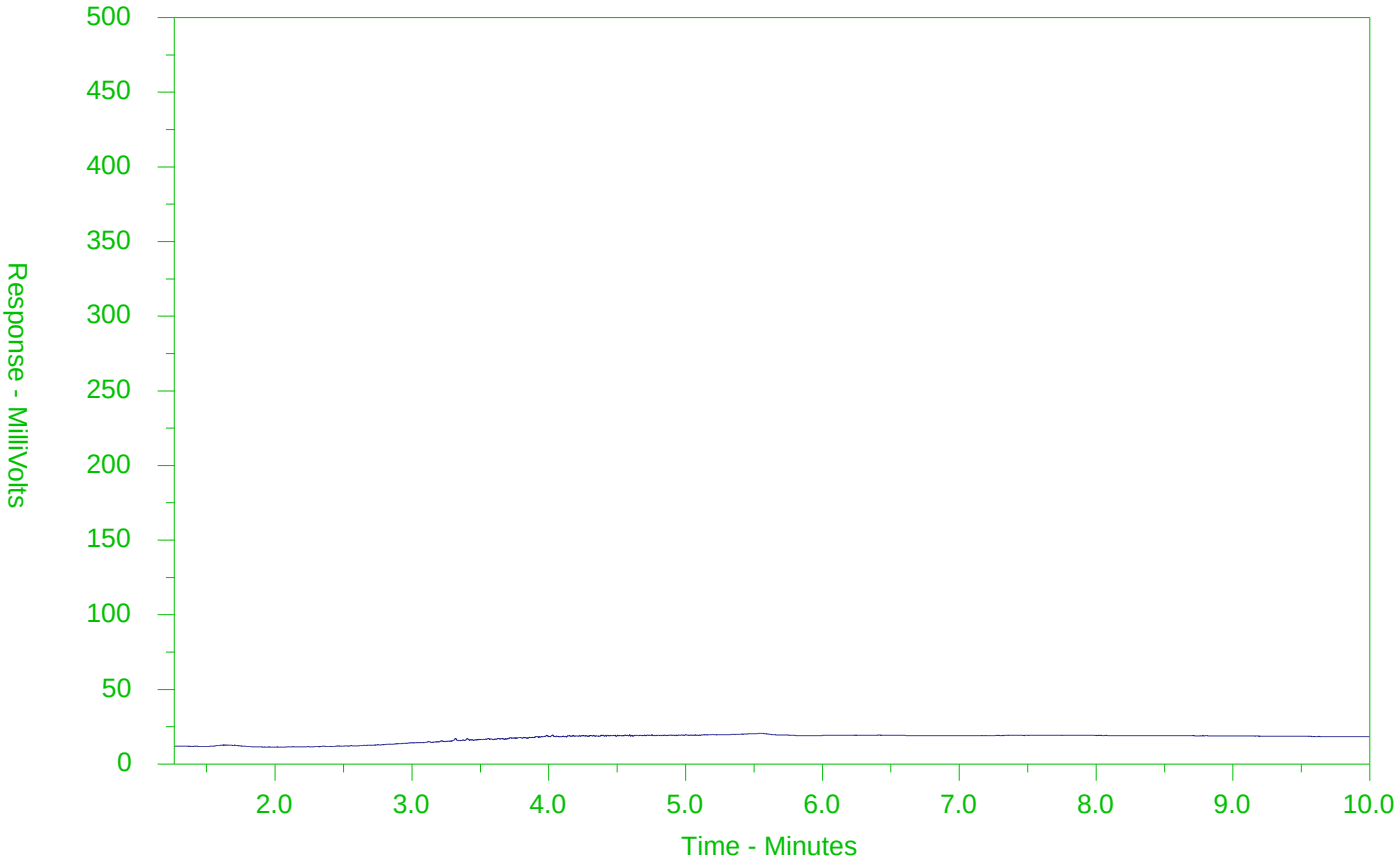
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2205639-014-E601.SG-L
Client Sample ID: S-12581540-220610-JB-BH12-22-0.05-0.6



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →	← Motor Oils/Lube Oils/Grease →		
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

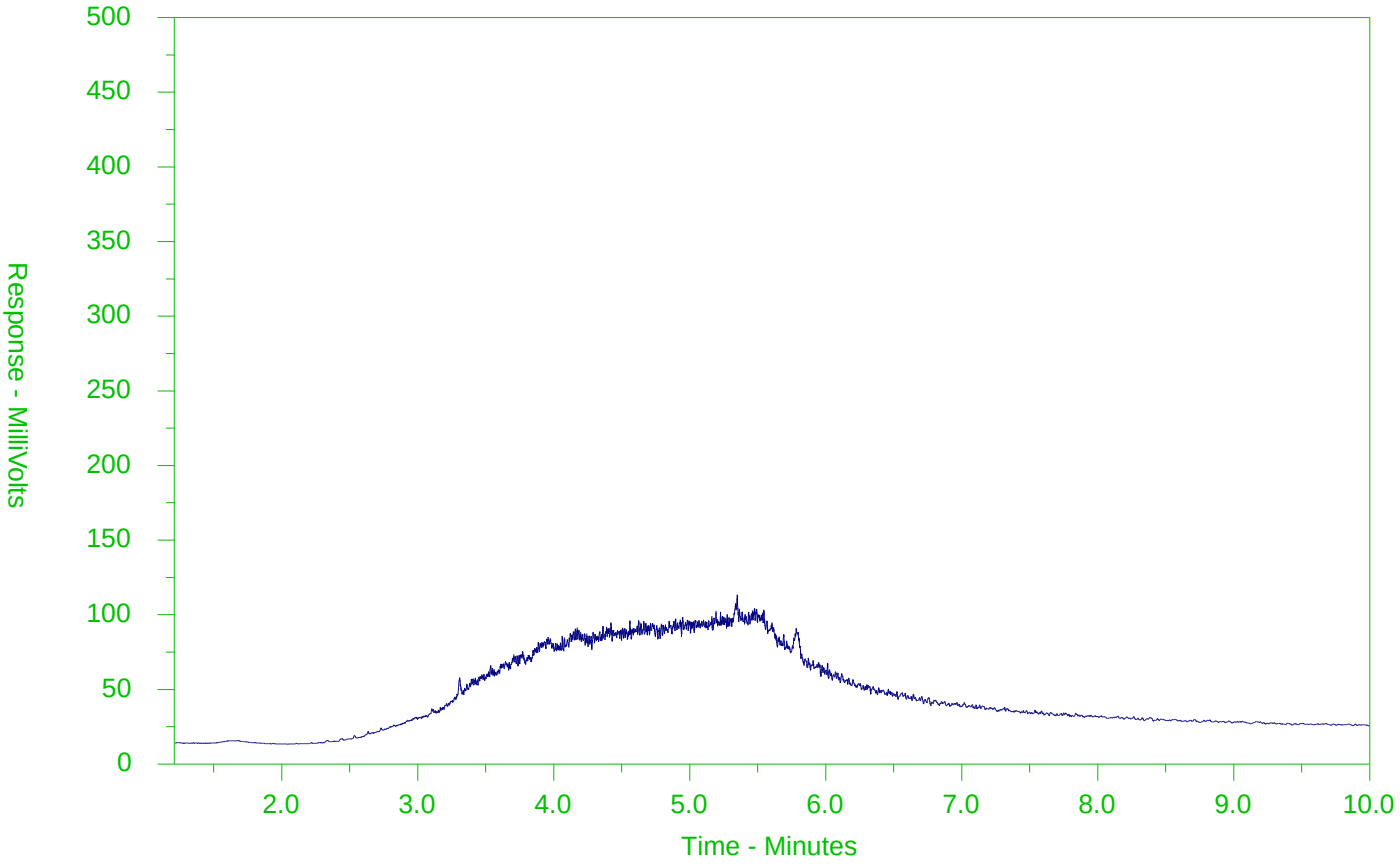
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2205639-015-E601.SG-L
Client Sample ID: S-12581540-220613-JB-BH1-22-0.0-0.6



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →	← Motor Oils/Lube Oils/Grease →		
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

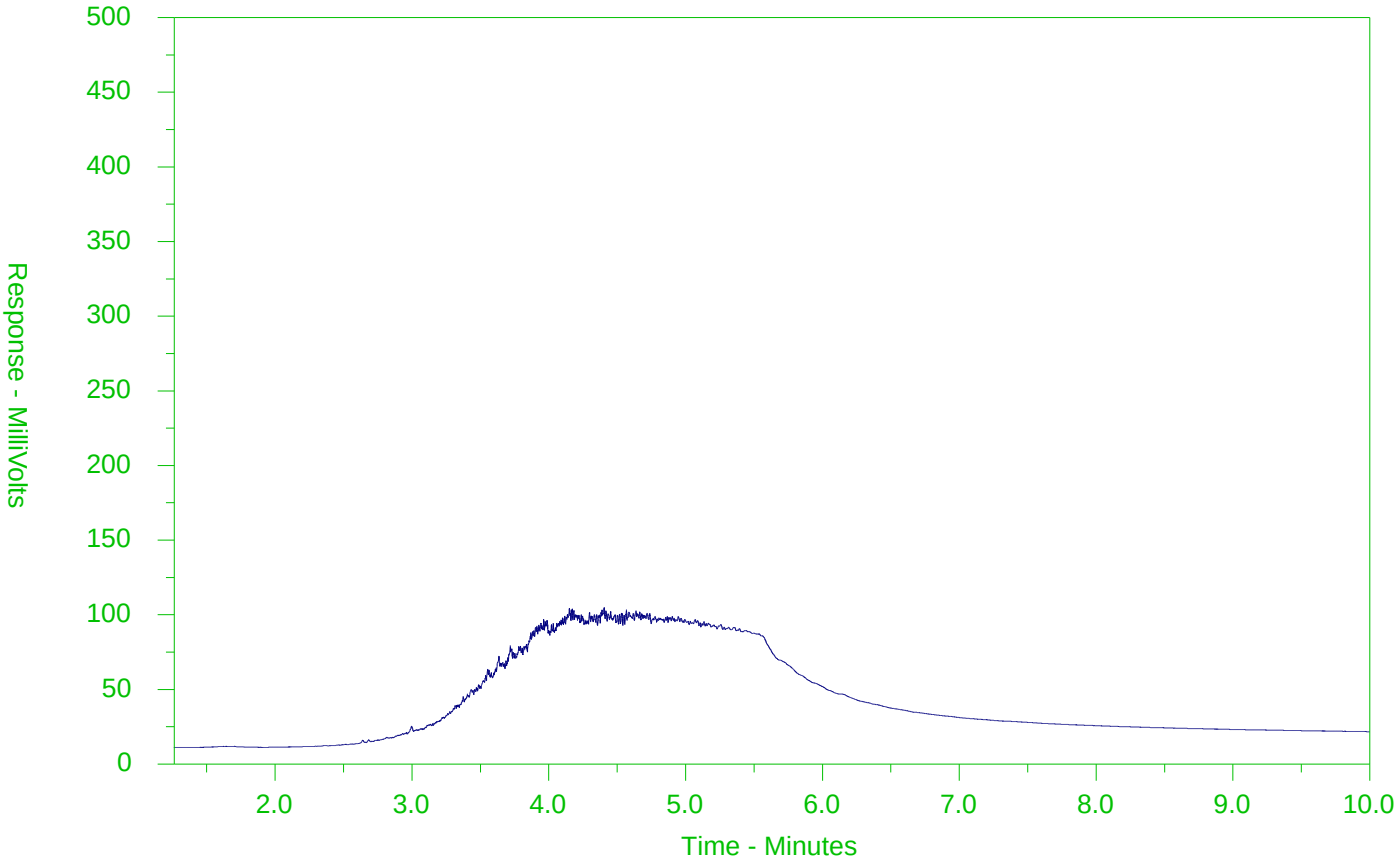
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2205639-016-E601.SG-L
Client Sample ID: S-12581540-220613-JB-BH7-22-0.0-0.6



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →	← Motor Oils/Lube Oils/Grease →		
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

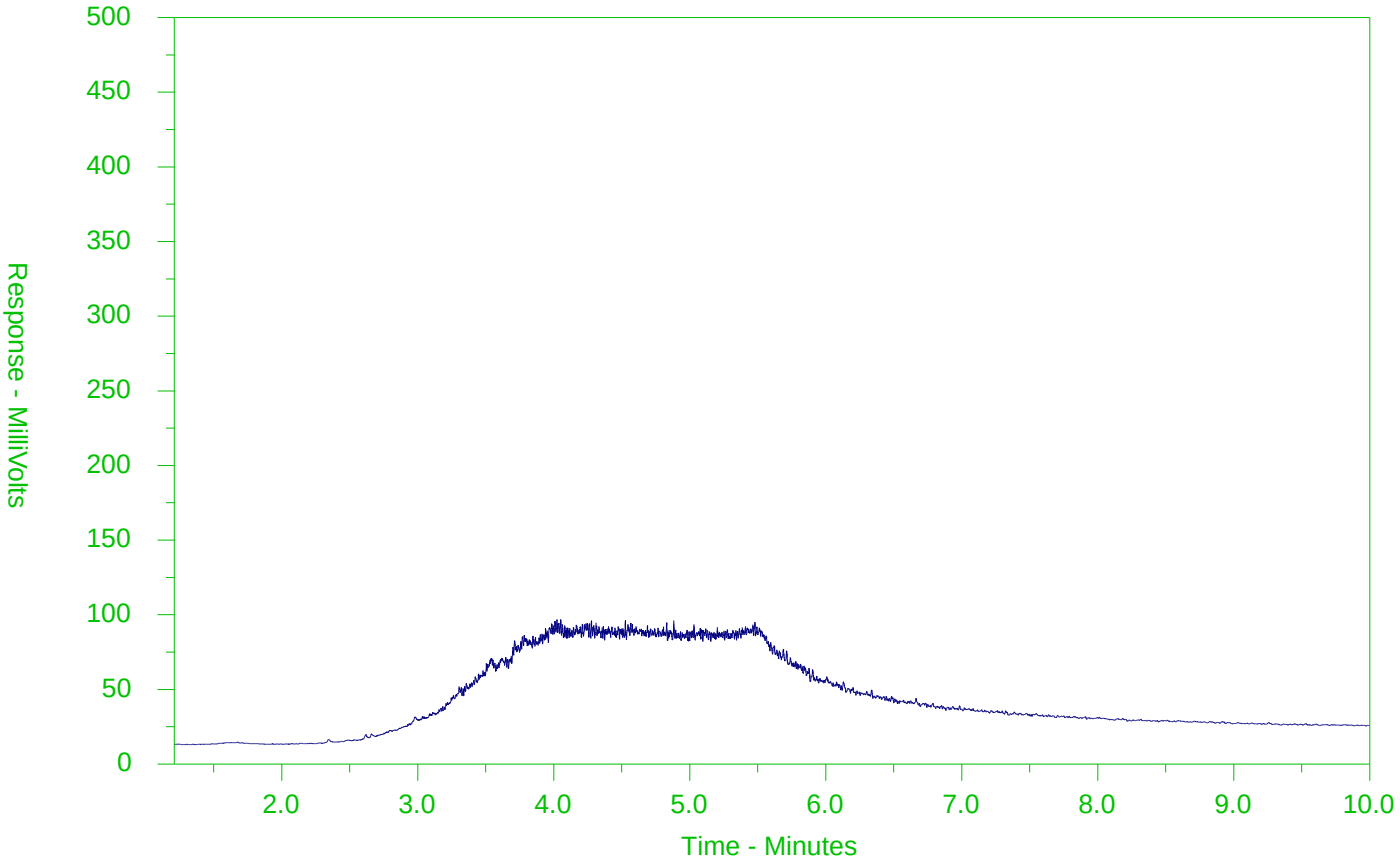
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2205639-017-E601.SG-L
Client Sample ID: S-12581540-220613-JB-BH10-22-0.0-0.6



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →	← Motor Oils/Lube Oils/Grease →		
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

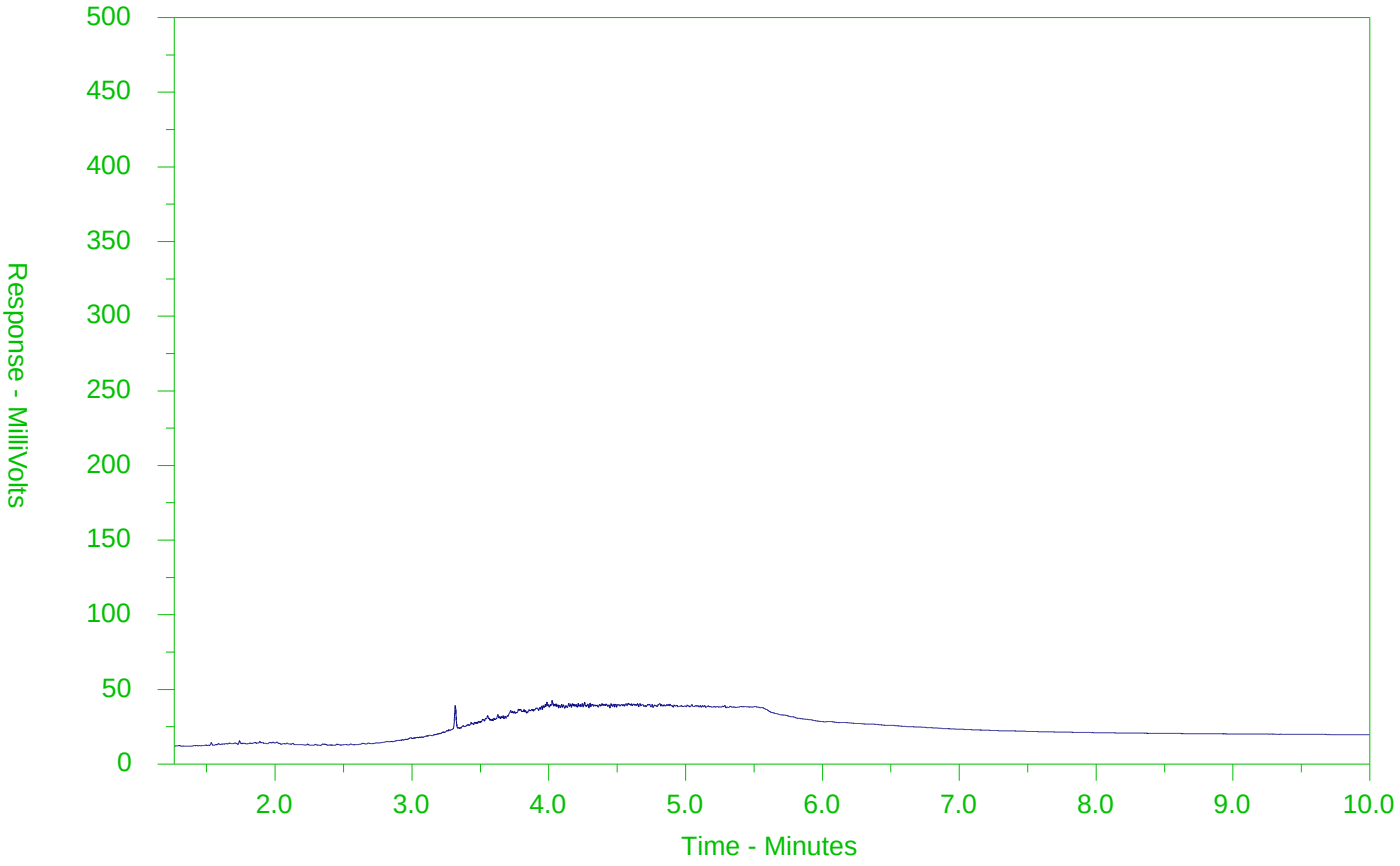
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2205639-018-E601.SG-L
Client Sample ID: S-12581540-220613-JB-BH10-22-1.5-1.8



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →	← Motor Oils/Lube Oils/Grease →		
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

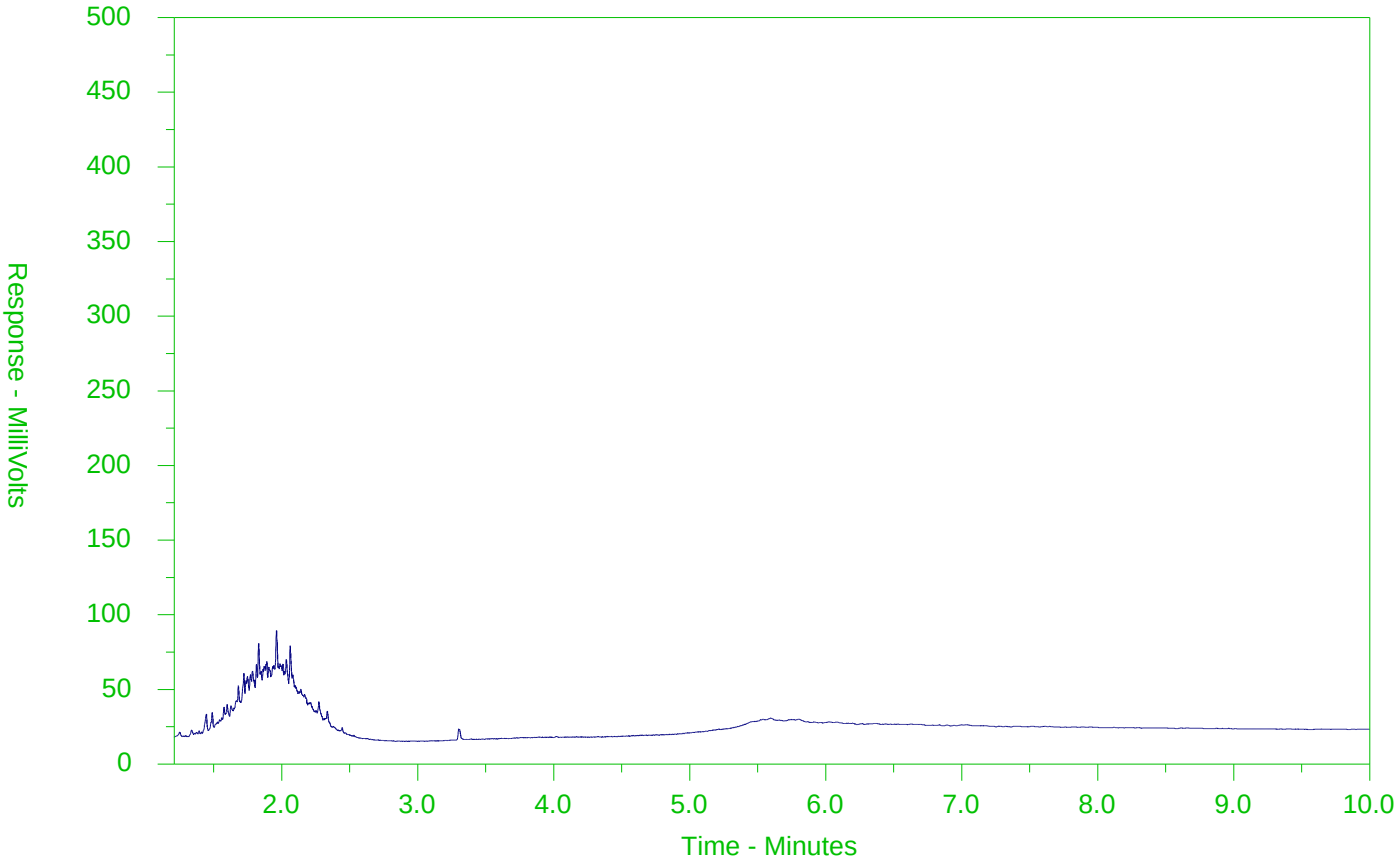
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2205639-019-E601.SG-L
Client Sample ID: S-12581540-220613-JB-BH10-22-1.5-1.8X



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →	← Motor Oils/Lube Oils/Grease →		
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

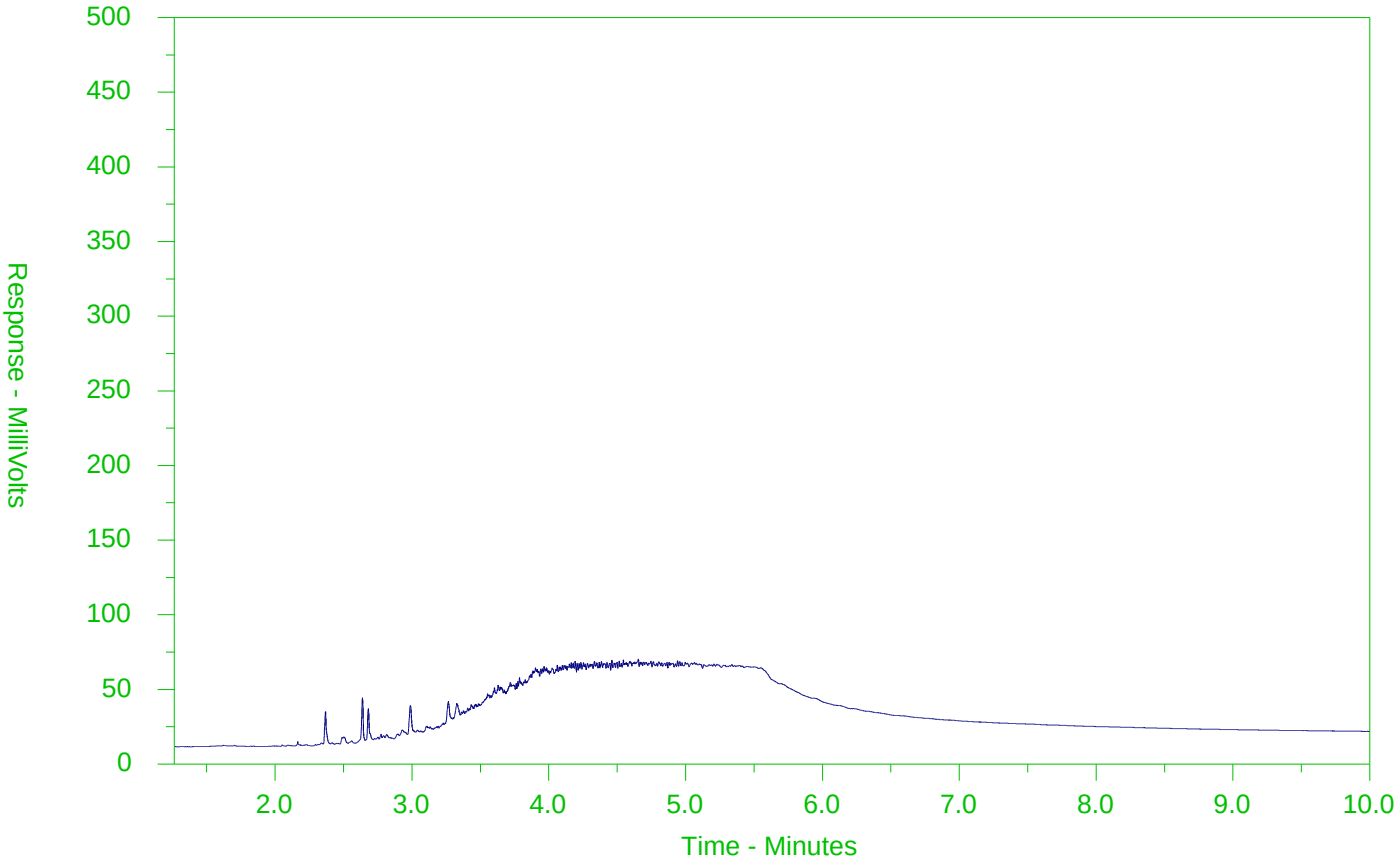
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2205639-020-E601.SG-L
Client Sample ID: S-12581540-220613-JB-BH11-22-0.0-0.6



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →	← Motor Oils/Lube Oils/Grease →		
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

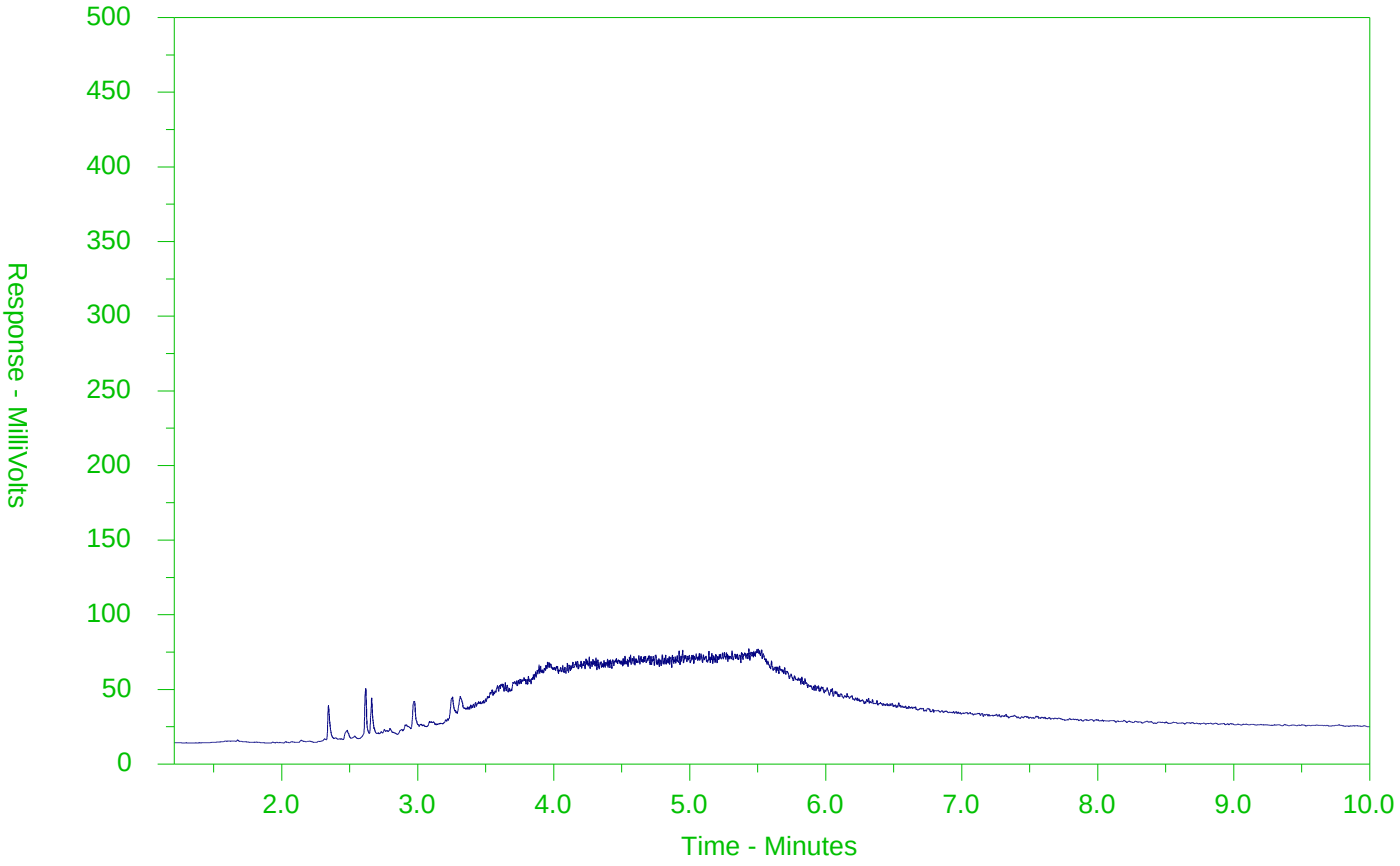
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2205639-021-E601.SG-L
Client Sample ID: S-12581540-220613-JB-BH11-22-1.5-2.1



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →	← Motor Oils/Lube Oils/Grease →		
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

Chain of Custody (COC) / Analytical Request Form

COC Number: 20 - JD1

Canada Toll Free: 1 800 668 9878

Page 1 of 3

www.alsglobal.com

Report To	Contact and company name below will appear on the final report
Company:	GHD Ltd. (Acct 13791)
Contact:	Jennifer Balkwill
Phone:	519-884-0510
	Company address below will appear on the final report
Street:	455 Phillip St.
City/Province:	Waterloo, ON
Postal Code:	N2L 3X2
Invoice To	Same as Report To ☑ YES ☐ NO
	Copy of Invoice with Report ☐ YES ☑ NO
Company:	GHD Ltd. (Acct 13791)
Contact:	

Reports / Recipients

Select Report Format: ☑ PDF ☐ EXCEL ☐ EDD (DIGITAL)
Merge QC/QCI Reports with COA ☐ YES ☐ NO ☐ N/A
☐ Compare Results to Criteria on Report - provide details below if box checked
Select Distribution: ☑ EMAIL ☐ MAIL ☐ FAX
Email 1 or Fax: jennifer.balkwill@ghd.com
Email 2: See SSOW/PO
Email 3:

Invoice Recipients

Select Invoice Distribution: ☑ EMAIL ☐ MAIL ☐ FAX
Email 1 or Fax: Invoicing-Canada@ghd.com
Email 2:

Turnaround Time (TAT) Requested

☑ Routine [R] if received by 3pm M-F - no surcharges apply
☐ 4 day [P4] if received by 3pm M-F - 20% rush surcharge minimum
☐ 3 day [P3] if received by 3pm M-F - 25% rush surcharge minimum
☐ 2 day [P2] if received by 3pm M-F - 50% rush surcharge minimum
☐ 1 day [E] if received by 3pm M-F - 100% rush surcharge minimum
Same day [E2] if received by 10am M-S - 200% rush surcharge. Additional fees may apply to rush requests on weekends, statutory holidays and non-routine tests

AFFIX ALS BARCODE LABEL HERE (ALS use only)

Date and Time Required for all E&P TATs:

For tests that can not be performed according to the TAT requested, you will be contacted.

Project Information		Oil and Gas Required Fields (client use)	
ALS Account # / Quote #:		AFE/Cost Center:	PO#
Job #:	12581540	Major/Minor Code:	Routing Code:
PO / AFE:	735-003274	Requisitioner:	
LSD:		Location:	

ALS Lab Work Order # (lab use only): WT2205639 JD1

ALS Contact: Rick H

Sampler: J BISSON

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	O.Reg Metals and Inorganics	PAHs(PAH-511-WT)	VOC/PHC(VOC-F1-F4-511-P-WT)	PCBs	VOC,F1 Trip Blank	TCLP Metals/Inorganics	TCLP VOCs	TCLP benzo(a)pyrene	TCLP PCBs	Ignitability	SAMPLES ON HOLD	EXTENDED STORAGE REQUIRED	SUSPECTED HAZARD (see notes)
	S-1258 1540-220614-SB-BH2-22_0.0-0.3	14-JUN-22	16:15	SOIL	4	✓		✓										
	S-1258 1540-220614-SB-BH3-22_0.0-0.6		09:40		4	✓	✓	✓										
	S-1258 1540-220614-SB-BH3-22_0.0-0.6 X		09:40		1	✓												
	S-1258 1540-220614-SB-BH4-22_0.0-0.6		08:25		4	✓	✓	✓										
	S-1258 1540-220614-SB-BH4-22_0.0-0.6 X		08:25		1		✓											
	S-1258 1540-220614-SB-BH5-22_0.0-0.6		10:50		4	✓	✓	✓										
	S-1258 1540-220614-SB-BH6-22_0.0-0.6		13:35		4	✓		✓										
	S-1258 1540-220614-SB-BH8-22_0.0-0.6		12:10		4	✓	✓	✓										
	S-1258 1540-220614-SB-BH8-22_0.0-0.6 X		12:10		1		✓											
	S-1258 1540-220614-SB-BH9-22_0.0-0.6		14:40		4	✓	✓	✓										
	S-1258 1540-220614-SB-BH9-22_0.0-0.6X		14:40		3			✓										
	S-1258 1540-220614-SB-TRIP BLANK		18:00		1					✓								

Environmental Division
Waterloo
Work Order Reference
WT2205639

Telephone : +1 519 886 6910

Drinking Water (DW) Samples[1] (client use)	Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)
Are samples taken from a Regulated DW System? ☐ YES ☑ NO	
Are samples for human consumption/ use? ☐ YES ☑ NO	

SAMPLE RECEIPT DETAILS (lab use only)

Cooling Method: ☐ NONE ☑ ICE ☐ ICE PACKS ☐ FROZEN ☐ COOLING INITIATED
Submission Comments identified on Sample Receipt Notification: ☐ YES ☐ NO
Cooler Custody Seals Intact: ☐ YES ☐ N/A Sample Custody Seals Intact: ☐ YES ☐ N/A

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
7.6	5.6	5.7					

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)		
Released by:	Date:	Time:	Received by:	Date:	Time:	Received by:	Date:	Time:
J BISSON	2022-06-15	1115	H K	06/15/22	14:40			

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

AUG 2022 FRONT

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1 If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

Chain of Custody (COC) / Analytical Request Form

COC Number: 20 -

Page 2 of 3

501

www.alsglobal.com

Canada Toll Free: 1 800 668 9878

Report To	Contact and company name below will appear on the final report
Company:	GHD Ltd. (Acct 13791)
Contact:	Jennifer Balkwill
Phone:	519-884-0510
	Company address below will appear on the final report
Street:	455 Phillip St.
City/Province:	Waterloo, ON
Postal Code:	N2L 3X2
Invoice To	Same as Report To ☑ YES ☐ NO
	Copy of Invoice with Report ☐ YES ☑ NO
Company:	GHD Ltd. (Acct 13791)
Contact:	

Reports / Recipients

Select Report Format: ☑ PDF ☐ EXCEL ☐ EDD (DIGITAL)

Merge QC/QCI Reports with COA ☐ YES ☐ NO ☐ N/A

☐ Compare Results to Criteria on Report - provide details below if box checked

Select Distribution: ☑ EMAIL ☐ MAIL ☐ FAX

Email 1 or Fax: jennifer.balkwill@ghd.com

Email 2: See SSOW/PO

Email 3:

Invoice Recipients

Select Invoice Distribution: ☑ EMAIL ☐ MAIL ☐ FAX

Email 1 or Fax: Invoicing-Canada@ghd.com

Email 2:

Turnaround Time (TAT) Requested

☑ Routine [R] if received by 3pm M-F - no surcharges apply

☐ 4 day [P4] if received by 3pm M-F - 20% rush surcharge minimum

☐ 3 day [P3] if received by 3pm M-F - 25% rush surcharge minimum

☐ 2 day [P2] if received by 3pm M-F - 50% rush surcharge minimum

☐ 1 day [E] if received by 3pm M-F - 100% rush surcharge minimum

Same day [E2] if received by 10am M-S - 200% rush surcharge. Additional fees may apply to rush requests on weekends, statutory holidays and non-routine tests

Date and Time Required for all E&P TATs:

For tests that can not be performed according to the TAT requested, you will be contacted.

AFFIX ALS BARCODE LABEL HERE (ALS use only)

Project Information

ALS Account # / Quote #:	
Job #:	12581540
PO / AFE:	735-003274
LSD:	

Oil and Gas Required Fields (client use)

AFE/Cost Center:	PO#
Major/Minor Code	Routing Code
Requisitioner:	
Location:	

ALS Lab Work Order # (lab use only): WT2705039 JD1

ALS Contact: Rick H

Sampler: J BISSON

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	O.Reg Metals and Inorganics	PAHs(PAH-511-WT)	VOC/PHC(VOC-F1-F4-511-P.WT)	PCBs	VOC-F1 Trip Blank	TCLP Metals/Inorganics	TCLP VOCs	TCLP benzo(a)pyrene	TCLP PCBs	Ignitability	SAMPLES ON HOLD	EXTENDED STORAGE REQUIRED	SUSPECTED HAZARD (see notes)
	S-12581540-220610-JB-BH14-22_0.8-1.4	10-JUN-22	11:40	SOIL	3			✓										
	S-12581540-220610-JB-BH12-22_0.05-0.6	10-JUN-22	14:30	SOIL	3			✓										

Drinking Water (DW) Samples[1] (client use)

Are samples taken from a Regulated DW System? ☐ YES ☑ NO

Are samples for human consumption/ use? ☐ YES ☑ NO

Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)

SAMPLE RECEIPT DETAILS (lab use only)

Cooling Method: ☐ NONE ☑ ICE ☐ ICE PACKS ☐ FROZEN ☐ COOLING INITIATED

Submission Comments identified on Sample Receipt Notification: ☐ YES ☐ NO

Cooler Custody Seals Intact: ☐ YES ☐ N/A Sample Custody Seals Intact: ☐ YES ☐ N/A

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
7.6	5.6	5.7					

SHIPMENT RELEASE (client use)

Released by:	Date:	Time:
J BISSON	2022-JUNE-15	14:15

INITIAL SHIPMENT RECEPTION (lab use only)

Received by:	Date:	Time:
H-K	06/15/22	14:40

FINAL SHIPMENT RECEPTION (lab use only)

Received by:	Date:	Time:

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

AUG 2020 FRONT

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

Chain of Custody (COC) / Analytical Request Form

COC Number: 20 -

Page 3 of 3 JD1

Canada Toll Free: 1 800 668 9878

www.alsglobal.com

Report To	Contact and company name below will appear on the final report	Reports / Recipients	Turnaround Time (TAT) Requested
Company:	GHD Ltd. (Acct 13791)	Select Report Format: ☑ PDF ☐ EXCEL ☐ EDD (DIGITAL)	☐ Routine [R] if received by 3pm M-F - no surcharges apply
Contact:	Jennifer Balkwill	Merge QC/QCI Reports with COA ☐ YES ☐ NO ☐ N/A	☐ 4 day [P4] if received by 3pm M-F - 20% rush surcharge minimum
Phone:	519-884-0510	☐ Compare Results to Criteria on Report - provide details below if box checked	☐ 3 day [P3] if received by 3pm M-F - 25% rush surcharge minimum
	Company address below will appear on the final report	Select Distribution: ☑ EMAIL ☐ MAIL ☐ FAX	☐ 2 day [P2] if received by 3pm M-F - 50% rush surcharge minimum
Street:	455 Phillip St.	Email 1 or Fax jennifer.balkwill@ghd.com	☐ 1 day [E] if received by 3pm M-F - 100% rush surcharge minimum
City/Province:	Waterloo, ON	Email 2 See SSOW/PO	☐ Same day [E2] if received by 10am M-S - 200% rush surcharge. Additional fees may apply to rush requests on weekends, statutory holidays and non-routine tests
Postal Code:	N2L 3X2	Email 3	Date and Time Required for all E&P TATs:
Invoice To	Same as Report To ☑ YES ☐ NO	Invoice Recipients	For tests that can not be performed according to the TAT requested, you will be contacted.
	Copy of Invoice with Report ☐ YES ☑ NO	Select Invoice Distribution: ☑ EMAIL ☐ MAIL ☐ FAX	AFFIX ALS BARCODE LABEL HERE (ALS use only)
Company:	GHD Ltd. (Acct 13791)	Email 1 or Fax Invoicing-Canada@ghd.com	
Contact:		Email 2	

Project Information		Oil and Gas Required Fields (client use)	
ALS Account # / Quote #:		AFE/Cost Center:	PO#
Job #:	12581540	Major/Minor Code:	Routing Code:
PO / AFE:	735-003274	Requisitioner:	
LSD:		Location:	
ALS Lab Work Order # (lab use only):	WT2205639 JD1	ALS Contact: Rick H	Sampler: J Bisson

Analysis Request

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	O Reg Metals and Inorganics	PAHs(PAH-511-WT)	VOC/PHC(VOC-F1-F4-511-P-WT)	PCBs	VOC,F1 Trip Blank	TCLP Metals/Inorganics	TCLP VOCs	TCLP benzo(a)pyrene	TCLP PCBs	Ignitability	SAMPLES ON HOLD	EXTENDED STORAGE REQUIRED	SUSPECTED HAZARD (see notes)
	S-1258 1540-220613-JB-BH1-22_0.0-0.6	13-JUN-22	15:20	SOIL	5	✓	✓	✓	✓									
	S-1258 1540-220613-JB-BH7-22_0.0-0.6		12:25		5	✓	✓	✓	✓									
	S-1258 1540-220613-JB-BH10-22_0.0-0.6		11:22		4	✓	✓	✓										
	S-1258 1540-220613-JB-BH10-22_1.5-1.8		11:36		3			✓										
	S-1258 1540-220613-JB-BH10-22-1.5-1.8 X		11:39		3			✓										
	S-1258 1540-220613-JB-BH11-22-0.0-0.6		09:13		5	✓	✓	✓	✓									
	S-1258 1540-220613-JB-BH11-22_1.5-2.1		09:26		3			✓										

Drinking Water (DW) Samples[1] (client use)	Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)
Are samples taken from a Regulated DW System? ☐ YES ☑ NO	
Are samples for human consumption/ use? ☐ YES ☑ NO	

SAMPLE RECEIPT DETAILS (lab use only)

Cooling Method: ☐ NONE ☑ ICE ☐ ICE PACKS ☐ FROZEN ☐ COOLING INITIATED

Submission Comments identified on Sample Receipt Notification: ☐ YES ☐ NO

Cooler Custody Seals Intact: ☐ YES ☐ N/A Sample Custody Seals Intact: ☐ YES ☐ N/A

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
7.6	5.6	5.7					

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)		
Released by: J BISSON	Date: 22-06-15	Time: MT	Received by: H.K	Date: 05/15/22	Time: 14:40	Received by:	Date:	Time:

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION WHITE - LABORATORY COPY YELLOW - CLIENT COPY

ALS 2022 / FRONT

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1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

Chain of Custody (COC) / Analytical Request Form

COC Number: 20 - JD1

Canada Toll Free: 1 800 668 9878

Page 1 of 3

www.alsglobal.com

Report To	Contact and company name below will appear on the final report
Company:	GHD Ltd. (Acct 13791)
Contact:	Jennifer Balkwill
Phone:	519-884-0510
	Company address below will appear on the final report
Street:	455 Phillip St.
City/Province:	Waterloo, ON
Postal Code:	N2L 3X2
Invoice To	Same as Report To ☑ YES ☐ NO
	Copy of Invoice with Report ☐ YES ☑ NO
Company:	GHD Ltd. (Acct 13791)
Contact:	

Reports / Recipients

Select Report Format: ☑ PDF ☐ EXCEL ☐ EDD (DIGITAL)
Merge QC/QCI Reports with COA ☐ YES ☐ NO ☐ N/A
☐ Compare Results to Criteria on Report - provide details below if box checked
Select Distribution: ☑ EMAIL ☐ MAIL ☐ FAX
Email 1 or Fax: jennifer.balkwill@ghd.com
Email 2: See SSOW/PO
Email 3:

Invoice Recipients

Select Invoice Distribution: ☑ EMAIL ☐ MAIL ☐ FAX
Email 1 or Fax: Invoicing-Canada@ghd.com
Email 2:

Turnaround Time (TAT) Requested

☑ Routine [R] if received by 3pm M-F - no surcharges apply
☐ 4 day [P4] if received by 3pm M-F - 20% rush surcharge minimum
☐ 3 day [P3] if received by 3pm M-F - 25% rush surcharge minimum
☐ 2 day [P2] if received by 3pm M-F - 50% rush surcharge minimum
☐ 1 day [E] if received by 3pm M-F - 100% rush surcharge minimum
☐ Same day [E2] if received by 10am M-S - 200% rush surcharge. Additional fees may apply to rush resuests on weekends, statutory holidays and non-routine tests

AFFIX ALS BARCODE LABEL HERE (ALS use only)

Date and Time Required for all E&P TATs:

For tests that can not be performed according to the TAT requested, you will be contacted.

Project Information

ALS Account # / Quote #:	
Job #:	12581540
PO / AFE:	735-003274
LSD:	
ALS Lab Work Order # (ALS use only):	WT2205639 JD1
ALS Sample #	

Oil and Gas Required Fields (client use)

AFE/Cost Center:	PO#
Major/Minor Code:	Routing Code:
Requisitioner:	
Location:	
ALS Contact: Rick H	Sampler: J Bisson

Analysis Request

Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	O Reg Metals and Inorganics	PAHs(PAH-511-WT)	VOC/PHC(VOC-F1-F4-511-P-WT)	PCBs	VOC F1 Trip Blank	TCLP Metals/Inorganics	TCLP VOCs	TCLP benzo(a)pyrene	TCLP PCBs	Ignitability	SAMPLES ON HOLD	EXTENDED STORAGE REQUIRED	SUSPECTED HAZARD (see notes)
1540-220614-JB-BH2-22_0.0-0.3	14-JUN-22	16:15	SOIL	4	✓		✓										
1259 1540-220614-JB-BH3-22_0.0-0.6		09:40		4	✓	✓	✓										
1259 1540-220614-JB-BH3-22_0.0-0.6 X		09:40		1	✓												
1259 1540-220614-JB-BH4-22_0.0-0.6		09:25		4	✓	✓	✓										
1259 1540-220614-JB-BH4-22_0.0-0.6 X		09:25		1		✓											
1259 1540-220614-JB-BH5-22_0.0-0.6		10:50		4	✓	✓	✓										
1259 1540-220614-JB-BH6-22_0.0-0.6		13:35		4	✓		✓										
1259 1540-220614-JB-BH8-22_0.0-0.6		12:10		4	✓	✓	✓										
1259 1540-220614-JB-BH8-22_0.0-0.6 X		12:10		1		✓											
1259 1540-220614-JB-BH9-22_0.0-0.6		14:40		4	✓	✓	✓										
1259 1540-220614-JB-BH9-22_0.0-0.6 X		14:40		3			✓										
1259 1540-220614-JB-TRIP BLANK		18:00		1					✓								

Environmental Division
Waterloo
Work Order Reference
WT2205639

Telephone : +1 519 886 6910

Drinking Water (DW) Samples[1] (client use)

Are samples taken from a Regulated DW System? ☐ YES ☑ NO
Are samples for human consumption/ use? ☐ YES ☑ NO

Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)

SAMPLE RECEIPT DETAILS (lab use only)

Cooling Method: ☐ NONE ☑ ICE ☐ ICE PACKS ☐ FROZEN ☐ COOLING INITIATED
Submission Comments identified on Sample Receipt Notification: ☐ YES ☐ NO
Cooler Custody Seals Intact: ☐ YES ☐ N/A Sample Custody Seals Intact: ☐ YES ☐ N/A

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
7.6	5.6	5.7		3.8			

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)		
Released by:	Date:	Time:	Received by:	Date:	Time:	Received by:	Date:	Time:
J BISSON	2022-06-15	11:15	H K	06/15/22	14:40		06/16/22	10:00

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

AUG 2020 FRONT

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

[1] If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

Chain of Custody (COC) / Analytical Request Form

COC Number: 20 -

Page 2 of 3

JD1

www.alsglobal.com

Canada Toll Free: 1 800 668 9878

Report To	Contact and company name below will appear on the final report
Company:	GHD Ltd. (Acct 13791)
Contact:	Jennifer Balkwill
Phone:	519-884-0510
	Company address below will appear on the final report
Street:	455 Phillip St.
City/Province:	Waterloo, ON
Postal Code:	N2L 3X2
Invoice To	Same as Report To ☑ YES ☐ NO
	Copy of Invoice with Report ☐ YES ☑ NO
Company:	GHD Ltd. (Acct 13791)
Contact:	

Reports / Recipients

Select Report Format: ☑ PDF ☐ EXCEL ☐ EDD (DIGITAL)
Merge QC/QCI Reports with COA ☐ YES ☐ NO ☐ N/A
☐ Compare Results to Criteria on Report - provide details below if box checked
Select Distribution: ☑ EMAIL ☐ MAIL ☐ FAX
Email 1 or Fax: jennifer.balkwill@ghd.com
Email 2: See SSOW/PO
Email 3:

Invoice Recipients

Select Invoice Distribution: ☑ EMAIL ☐ MAIL ☐ FAX
Email 1 or Fax: Invoicing-Canada@ghd.com
Email 2:

Turnaround Time (TAT) Requested

☑ Routine [R] if received by 3pm M-F - no surcharges apply
☐ 4 day [P4] if received by 3pm M-F - 20% rush surcharge minimum
☐ 3 day [P3] if received by 3pm M-F - 25% rush surcharge minimum
☐ 2 day [P2] if received by 3pm M-F - 50% rush surcharge minimum
☐ 1 day [E] if received by 3pm M-F - 100% rush surcharge minimum
☐ Same day [E2] if received by 10am M-S - 200% rush surcharge. Additional fees may apply to rush requests on weekends, statutory holidays and non-routine tests

AFFIX ALS BARCODE LABEL HERE (ALS use only)

Date and Time Required for all E&P TATs:

For tests that can not be performed according to the TAT requested, you will be contacted.

Project Information

ALS Account # / Quote #:	
Job #:	12581540
PO / AFE:	735-003274
LSD:	

Oil and Gas Required Fields (client use)

AFE/Cost Center:	PO#
Major/Minor Code:	Routing Code:
Requisitioner:	
Location:	

ALS Lab Work Order # (lab use only): WT2205039 JD1
ALS Contact: Rick H
Sampler: J BISSON

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	O.Reg Metals and Inorganics	PAHs(PAH-511-WT)	VOC/PHC(VOC-F1-F4-511-P-WT)	PCBs	VOC,F1 Trip Blank	TCLP Metals/Inorganics	TCLP VOCs	TCLP benzo(a)pyrene	TCLP PCBs	Ignitability	SAMPLES ON HOLD	EXTENDED STORAGE REQUIRED	SUSPECTED HAZARD (see notes)
	S-12581540-220610-JB-BH14-22_0.8-1.4	10-JUN-22	11:40	SOIL	3			✓										
	S-12581540-220610-JB-BH12-22_0.05-0.6	10-JUN-22	14:30	SOIL	3			✓										

Drinking Water (DW) Samples[1] (client use)

Are samples taken from a Regulated DW System? ☐ YES ☑ NO
Are samples for human consumption/ use? ☐ YES ☑ NO

Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)

SAMPLE RECEIPT DETAILS (lab use only)

Cooling Method: ☐ NONE ☑ ICE ☐ ICE PACKS ☐ FROZEN ☐ COOLING INITIATED
Submission Comments identified on Sample Receipt Notification: ☐ YES ☐ NO
Cooler Custody Seals Intact: ☐ YES ☐ N/A Sample Custody Seals Intact: ☐ YES ☐ N/A

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
7.6	5.6	5.7		3.8			

SHIPMENT RELEASE (client use)

Released by:	Date:	Time:
J BISSON	2022-JUNE-15	14:15

INITIAL SHIPMENT RECEPTION (lab use only)

Received by:	Date:	Time:
H.K	06/15/22	14:40

FINAL SHIPMENT RECEPTION (lab use only)

Received by:	Date:	Time:
	06 16 22	10 am

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

AUG 2020 FRONT

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

[1] Use authorized DW COC form.

Chain of Custody (COC) / Analytical Request Form

www.alsglobal.com

Canada Toll Free: 1 800 668 9878

COC Number: 20 -

Page 3 of 3

JD1

Report To	Contact and company name below will appear on the final report
Company:	GHD Ltd. (Acct 13791)
Contact:	Jennifer Balkwill
Phone:	519-884-0510
	Company address below will appear on the final report
Street:	455 Phillip St.
City/Province:	Waterloo, ON
Postal Code:	N2L 3X2
Invoice To	Same as Report To ☑ YES ☐ NO
	Copy of Invoice with Report ☐ YES ☑ NO
Company:	GHD Ltd. (Acct 13791)
Contact:	

Reports / Recipients

Select Report Format: ☑ PDF ☐ EXCEL ☐ EDD (DIGITAL)

Merge QC/QCI Reports with COA ☐ YES ☐ NO ☐ N/A

☐ Compare Results to Criteria on Report - provide details below if box checked

Select Distribution: ☑ EMAIL ☐ MAIL ☐ FAX

Email 1 or Fax: jennifer.balkwill@ghd.com

Email 2: See SSOW/PO

Email 3:

Invoice Recipients

Select Invoice Distribution: ☑ EMAIL ☐ MAIL ☐ FAX

Email 1 or Fax: Invoicing-Canada@ghd.com

Email 2:

Turnaround Time (TAT) Requested

☐ Routine [R] if received by 3pm M-F - no surcharges apply

☐ 4 day [P4] if received by 3pm M-F - 20% rush surcharge minimum

☐ 3 day [P3] if received by 3pm M-F - 25% rush surcharge minimum

☐ 2 day [P2] if received by 3pm M-F - 50% rush surcharge minimum

☐ 1 day [E] if received by 3pm M-F - 100% rush surcharge minimum

☐ Same day [E2] if received by 10am M-S - 200% rush surcharge. Additional fees may apply to rush requests on weekends, statutory holidays and non-routine tests.

Date and Time Required for all E&P TATs:

For tests that can not be performed according to the TAT requested, you will be contacted.

AFFIX ALS BARCODE LABEL HERE (ALS use only)

Project Information		Oil and Gas Required Fields (client use)	
ALS Account # / Quote #:		AFE/Cost Center:	PO#:
Job #:	12581540	Major/Minor Code:	Routing Code:
PO / AFE:	735-003274	Requisitioner:	
LSD:		Location:	

ALS Lab Work Order # (lab use only): WT2205639 JD1 | **ALS Contact:** Rick H | **Sampler:** J Bisson

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	O Reg Metals and Inorganics	PAHs(PAH-511-WT)	VOC/PHC(VOC-F1-F4-511-P-WT)	PCBs	VOC F1 Trip Blank	TCLP Metals/Inorganics	TCLP VOCs	TCLP benzo(a)pyrene	TCLP PCBs	Ignitability	SAMPLES ON HOLD	EXTENDED STORAGE REQUIRED	SUSPECTED HAZARD (see notes)
	S-1258 1540-220613-JB-BH1-22_0.0-0.6	13-JUN-22	15:20	SOIL	5	✓	✓	✓	✓									
	S-1258 1540-220613-JB-BH7-22_0.0-0.6		12:25		5	✓	✓	✓	✓									
	S-1259 1540-220613-JB-BH10-22_0.0-0.6		11:22		4	✓	✓	✓										
	S-1259 1540-220613-JB-BH10-22_1.5-1.8		11:36		3			✓										
	S-1258 1540-220613-JB-BH10-22-1.5-1.9 X		11:39		3			✓										
	S-1259 1540-220613-JB-BH11-22-0.0-0.6		09:13		5	✓	✓	✓	✓									
	S-1258 1540-220613-JB-BH11-22_1.5-2.1		09:26		3			✓										

Drinking Water (DW) Samples[1] (client use)

Are samples taken from a Regulated DW System? ☐ YES ☑ NO

Are samples for human consumption/ use? ☐ YES ☑ NO

Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)

SAMPLE RECEIPT DETAILS (lab use only)

Cooling Method: ☐ NONE ☑ ICE ☐ ICE PACKS ☐ FROZEN ☐ COOLING INITIATED

Submission Comments identified on Sample Receipt Notification: ☐ YES ☐ NO

Cooler Custody Seals Intact: ☐ YES ☐ N/A | Sample Custody Seals Intact: ☐ YES ☐ N/A

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
7.6	5.6	5.7		8.8			

SHIPMENT RELEASE (client use)

Released by:	Date:	Time:
J Bisson	22-06-15	MT

INITIAL SHIPMENT RECEPTION (lab use only)

Received by:	Date:	Time:
H.K	06/15/22	14:40

FINAL SHIPMENT RECEPTION (lab use only)

Received by:	Date:	Time:
BS	06 16 22	1000

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

CERTIFICATE OF ANALYSIS

Work Order	: **WT2205641**	Page	: 1 of 4
Client	: **GHD Limited**	Laboratory	: Waterloo - Environmental
Contact	: Jennifer Balkwill	Account Manager	: Rick Hawthorne
Address	: 455 Phillip Street Waterloo ON Canada N2L 3X2	Address	: 60 Northland Road, Unit 1 Waterloo ON Canada N2V 2B8
Telephone	: ----	Telephone	: +1 519 886 6910
Project	: 12581540	Date Samples Received	: 15-Jun-2022 14:40
PO	: 735-003274	Date Analysis Commenced	: 17-Jun-2022
C-O-C number	: ----	Issue Date	: 30-Jun-2022 11:09
Sampler	: Jeffrey Bisson		
Site	: ----		
Quote number	: 12581540 - City of Mississauga		
No. of samples received	: 1		
No. of samples analysed	: 1		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with FDA 21 CFR Part 11.

Signatories	*Position*	*Laboratory Department*
Jeremy Gingras	Team Leader - Semi-Volatile Instrumentation	Organics, Waterloo, Ontario
Jocelyn Kennedy	Department Manager - Semi-Volatile Organics	Organics, Waterloo, Ontario
Jon Fisher	Department Manager - Inorganics	Inorganics, Waterloo, Ontario
Jon Fisher	Department Manager - Inorganics	Metals, Waterloo, Ontario
Sarah Birch	Team Leader - Volatiles	Organics, Waterloo, Ontario

General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.
Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key : CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances
LOR: Limit of Reporting (detection limit).

Unit	*Description*
°C	degrees Celsius
µg/L	micrograms per litre
m/sec	metres per second
mg/L	milligrams per litre
mm/sec	millimetres per second
none	none
pH units	pH units
sec	seconds

>: greater than.
<: less than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical Results

WT2205641-001

Sub-Matrix:**Soil**
(Matrix: **Soil/Solid**)

Client sample ID: S-12581540-220614-JB-TCLP
Client sampling date / time: 14-Jun-2022 17:30

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Physical Tests								
ignitability	----	Negative	-	none	E209	-	21-Jun-2022	-
sample comment	----	GREY CLAYEY SOIL	-	none	E209	-	21-Jun-2022	-
time to ignition	----	Not Determined	1	sec	E209	-	21-Jun-2022	-
burning rate	----	Not Determined	0.01	mm/sec	E209	-	21-Jun-2022	-
temperature of test material	----	20.0	1.0	°C	E209	-	21-Jun-2022	-
air velocity of fume hood	----	0.21	0.10	m/sec	E209	-	21-Jun-2022	-
TCLP Anions & Nutrients								
nitrate + nitrite (as N), TCLP	----	<7.50	7.5	mg/L	EC240.N+N	-	21-Jun-2022	-
TCLP Extractables								
Aroclor 1016, TCLP	12674-11-2	<0.00020	0.00020	mg/L	E688A	24-Jun-2022	27-Jun-2022	537041
Aroclor 1221, TCLP	11104-28-2	<0.00020	0.00020	mg/L	E688A	24-Jun-2022	27-Jun-2022	537041
Aroclor 1232, TCLP	11141-16-5	<0.00020	0.00020	mg/L	E688A	24-Jun-2022	27-Jun-2022	537041
Aroclor 1242, TCLP	53469-21-9	<0.00020	0.00020	mg/L	E688A	24-Jun-2022	27-Jun-2022	537041
Aroclor 1248, TCLP	12672-29-6	<0.00020	0.00020	mg/L	E688A	24-Jun-2022	27-Jun-2022	537041
Aroclor 1254, TCLP	11097-69-1	<0.00020	0.00020	mg/L	E688A	24-Jun-2022	27-Jun-2022	537041
Aroclor 1260, TCLP	11096-82-5	<0.00020	0.00020	mg/L	E688A	24-Jun-2022	27-Jun-2022	537041
Aroclor 1262, TCLP	37324-23-5	<0.00020	0.00020	mg/L	E688A	24-Jun-2022	27-Jun-2022	537041
Aroclor 1268, TCLP	11100-14-4	<0.00020	0.00020	mg/L	E688A	24-Jun-2022	27-Jun-2022	537041
benzo(a)pyrene, TCLP	50-32-8	<0.00050	0.00050	mg/L	E644	28-Jun-2022	30-Jun-2022	541701
cyanide, weak acid dissociable, TCLP	----	<0.10	0.10	mg/L	E337A	22-Jun-2022	22-Jun-2022	533381
fluoride, TCLP	16984-48-8	<10	10	mg/L	E240.F	21-Jun-2022	21-Jun-2022	531830
nitrate (as N), TCLP	14797-55-8	<5.0	5.0	mg/L	E240.NO3	21-Jun-2022	21-Jun-2022	531831
nitrite (as N), TCLP	14797-65-0	<5.0	5.0	mg/L	E240.NO2	21-Jun-2022	21-Jun-2022	531832
decachlorobiphenyl, TCLP	2051-24-3	125	0.1	%	E688A	24-Jun-2022	27-Jun-2022	537041
tetrachloro-m-xylene, TCLP	877-09-8	92.4	0.1	%	E688A	24-Jun-2022	27-Jun-2022	537041
TCLP Extractables Surrogates								
chrysene-d12, TCLP	1719-03-5	63.4	5.0	%	E644	28-Jun-2022	30-Jun-2022	541701
naphthalene-d8, TCLP	1146-65-2	101	5.0	%	E644	28-Jun-2022	30-Jun-2022	541701
phenanthrene-d10, TCLP	1517-22-2	97.5	5.0	%	E644	28-Jun-2022	30-Jun-2022	541701
TCLP Metals								
arsenic, TCLP	7440-38-2	<1.0	1.0	mg/L	E444	21-Jun-2022	21-Jun-2022	531800
barium, TCLP	7440-39-3	<2.5	2.5	mg/L	E444	21-Jun-2022	21-Jun-2022	531800
boron, TCLP	7440-42-8	<0.50	0.50	mg/L	E444	21-Jun-2022	21-Jun-2022	531800
cadmium, TCLP	7440-43-9	<0.050	0.050	mg/L	E444	21-Jun-2022	21-Jun-2022	531800
chromium, TCLP	7440-47-3	<0.25	0.25	mg/L	E444	21-Jun-2022	21-Jun-2022	531800
lead, TCLP	7439-92-1	<0.25	0.25	mg/L	E444	21-Jun-2022	21-Jun-2022	531800
mercury, TCLP	7439-97-6	<0.0010	0.0010	mg/L	E512	21-Jun-2022	21-Jun-2022	531888
pH, TCLP 1st preliminary	----	9.52	0.010	pH units	EPP444	-	17-Jun-2022	-
pH, TCLP 2nd preliminary	----	4.19	0.010	pH units	EPP444	-	17-Jun-2022	-
pH, TCLP extraction fluid initial	----	4.89	0.010	pH units	EPP444	-	17-Jun-2022	-
pH, TCLP final	----	6.35	0.010	pH units	EPP444	-	17-Jun-2022	-
selenium, TCLP	7782-49-2	<0.10	0.10	mg/L	E444	21-Jun-2022	21-Jun-2022	531800
silver, TCLP	7440-22-4	<0.050	0.050	mg/L	E444	21-Jun-2022	21-Jun-2022	531800
uranium, TCLP	7440-61-1	<0.20	0.20	mg/L	E444	21-Jun-2022	21-Jun-2022	531800

Analytical Results

WT2205641-001

Sub-Matrix:**Soil**
(Matrix: **Soil/Solid)**

Client sample ID: S-12581540-220614-JB-TCLP
Client sampling date / time: 17-Jun-2022 09:18

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
TCLP VOCs								
benzene, TCLP	71-43-2	<0.0050	0.0050	mg/L	E615B	21-Jun-2022	21-Jun-2022	531775
carbon tetrachloride, TCLP	56-23-5	<0.025	0.025	mg/L	E615B	21-Jun-2022	21-Jun-2022	531775
chlorobenzene, TCLP	108-90-7	<0.025	0.025	mg/L	E615B	21-Jun-2022	21-Jun-2022	531775
chloroform, TCLP	67-66-3	<0.10	0.10	mg/L	E615B	21-Jun-2022	21-Jun-2022	531775
dichlorobenzene, 1,2-, TCLP	95-50-1	<0.025	0.025	mg/L	E615B	21-Jun-2022	21-Jun-2022	531775
dichlorobenzene, 1,4-, TCLP	106-46-7	<0.025	0.025	mg/L	E615B	21-Jun-2022	21-Jun-2022	531775
dichloroethane, 1,2-, TCLP	107-06-2	<0.025	0.025	mg/L	E615B	21-Jun-2022	21-Jun-2022	531775
dichloroethylene, 1,1-, TCLP	75-35-4	<0.025	0.025	mg/L	E615B	21-Jun-2022	21-Jun-2022	531775
dichloromethane, TCLP	75-09-2	<0.10	0.10	mg/L	E615B	21-Jun-2022	21-Jun-2022	531775
methyl ethyl ketone [MEK], TCLP	78-93-3	<0.10	0.10	mg/L	E615B	21-Jun-2022	21-Jun-2022	531775
tetrachloroethylene, TCLP	127-18-4	<0.025	0.025	mg/L	E615B	21-Jun-2022	21-Jun-2022	531775
trichloroethylene, TCLP	79-01-6	<0.025	0.025	mg/L	E615B	21-Jun-2022	21-Jun-2022	531775
vinyl chloride, TCLP	75-01-4	<0.050	0.050	mg/L	E615B	21-Jun-2022	21-Jun-2022	531775
TCLP VOCs Surrogates								
bromofluorobenzene, 4-, TCLP	460-00-4	76.3	1.0	%	E615B	21-Jun-2022	21-Jun-2022	531775
difluorobenzene, 1,4-, TCLP	540-36-3	94.6	1.0	%	E615B	21-Jun-2022	21-Jun-2022	531775
Polychlorinated Biphenyls								
polychlorinated biphenyls [PCBs], total, TCLP	----	<0.00060	0.00060	mg/L	E688A	24-Jun-2022	27-Jun-2022	537041

Please refer to the General Comments section for an explanation of any qualifiers detected.

QUALITY CONTROL INTERPRETIVE REPORT

Work Order	: **WT2205641**	Page	: 1 of 8
Client	: **GHD Limited**	Laboratory	: Waterloo - Environmental
Contact	: Jennifer Balkwill	Account Manager	: Rick Hawthorne
Address	: 455 Phillip Street Waterloo ON Canada N2L 3X2	Address	: 60 Northland Road, Unit 1 Waterloo, Ontario Canada N2V 2B8
Telephone	: ----	Telephone	: +1 519 886 6910
Project	: 12581540	Date Samples Received	: 15-Jun-2022 14:40
PO	: 735-003274	Issue Date	: 30-Jun-2022 11:09
C-O-C number	: ----		
Sampler	: Jeffrey Bisson		
Site	: ----		
Quote number	: 12581540 - City of Mississauga		
No. of samples received	: 1		
No. of samples analysed	: 1		

This report is automatically generated by the ALS LIMS (Laboratory Information Management System) through evaluation of Quality Control (QC) results and other QA parameters associated with this submission, and is intended to facilitate rapid data validation by auditors or reviewers. The report highlights any exceptions and outliers to ALS Data Quality Objectives, provides holding time details and exceptions, summarizes QC sample frequencies, and lists applicable methodology references and summaries.

Key

Anonymous: Refers to samples which are not part of this work order, but which formed part of the QC process lot.
CAS Number: Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
DQO: Data Quality Objective.
LOR: Limit of Reporting (detection limit).
RPD: Relative Percent Difference.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Summary of Outliers

Outliers : Quality Control Samples

- No Method Blank value outliers occur.
- No Duplicate outliers occur.
- No Laboratory Control Sample (LCS) outliers occur
- No Matrix Spike outliers occur.
- No Test sample Surrogate recovery outliers exist.

Outliers: Reference Material (RM) Samples

- No Reference Material (RM) Sample outliers occur.

Outliers : Analysis Holding Time Compliance (Breaches)

- No Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

- No Quality Control Sample Frequency Outliers occur.

Analysis Holding Time Compliance

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times, which are selected to meet known provincial and /or federal requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by organizations such as CCME, US EPA, APHA Standard Methods, ASTM, or Environment Canada (where available). Dates and holding times reported below represent the first dates of extraction or analysis. If subsequent tests or dilutions exceeded holding times, qualifiers are added (refer to COA).

If samples are identified below as having been analyzed or extracted outside of recommended holding times, measurement uncertainties may be increased, and this should be taken into consideration when interpreting results.

Where actual sampling date is not provided on the chain of custody, the date of receipt with time at 00:00 is used for calculation purposes.

Where only the sample date without time is provided on the chain of custody, the sampling date at 00:00 is used for calculation purposes.

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Physical Tests : Ignitability (O. Reg. 347/558)										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-TCLP	E209	14-Jun-2022	----	----	----		21-Jun-2022	30 days	7 days	✓
Polychlorinated Biphenyls : PCB Aroclors by GC-MS (TCLP)										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-TCLP	E688A	14-Jun-2022	24-Jun-2022	----	----		27-Jun-2022	----	----	
TCLP Extractables : Fluoride by IC (TCLP)										
HDPE [ON MECP]										
S-12581540-220614-JB-TCLP	E240.F	17-Jun-2022	----	----	----		21-Jun-2022	28 days	7 days	✓
TCLP Extractables : Nitrate by IC (TCLP)										
HDPE [ON MECP]										
S-12581540-220614-JB-TCLP	E240.NO3	17-Jun-2022	----	----	----		21-Jun-2022	7 days	7 days	✓
TCLP Extractables : Nitrite by IC (TCLP)										
HDPE [ON MECP]										
S-12581540-220614-JB-TCLP	E240.NO2	17-Jun-2022	----	----	----		21-Jun-2022	7 days	7 days	✓
TCLP Extractables : PAHs by GC-MS (TCLP)										
Glass vial (sodium bisulfate)										
S-12581540-220614-JB-TCLP	E644	17-Jun-2022	28-Jun-2022	17 days	14 days	✓	30-Jun-2022	40 days	1 days	✓
TCLP Extractables : PCB Aroclors by GC-MS (TCLP)										
Glass soil jar/Teflon lined cap										
S-12581540-220614-JB-TCLP	E688A	14-Jun-2022	24-Jun-2022	14 days	10 days	✓	27-Jun-2022	40 days	3 days	✓

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
TCLP Extractables : WAD Cyanide (TCLP)										
HDPE [ON MECP]										
S-12581540-220614-JB-TCLP	E337A	17-Jun-2022	----	----	----		22-Jun-2022	17 days	8 days	✓
TCLP Metals : Mercury by CVAAS (TCLP)										
HDPE - total (lab preserved)										
S-12581540-220614-JB-TCLP	E512	17-Jun-2022	----	----	----		21-Jun-2022	28 days	7 days	✓
TCLP Metals : Metals by CRC ICPMS (TCLP)										
HDPE - total (lab preserved)										
S-12581540-220614-JB-TCLP	E444	17-Jun-2022	----	----	----		21-Jun-2022	180 days	7 days	✓
TCLP Metals : TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)										
Lab Split - Non-Volatile Leach: 14 day HT (e.g. CN, SVOC, NOx)										
S-12581540-220614-JB-TCLP	EPP444	14-Jun-2022	17-Jun-2022	----	----		----	----	----	
TCLP VOCs : VOCs by Headspace GC-MS (TCLP)										
Glass vial (sodium bisulfate)										
S-12581540-220614-JB-TCLP	E615B	17-Jun-2022	21-Jun-2022	----	----		21-Jun-2022	14 days	7 days	✓

Legend & Qualifier Definitions

Rec. HT: ALS recommended hold time (see units).

Quality Control Parameter Frequency Compliance

The following report summarizes the frequency of laboratory QC samples analyzed within the analytical batches (QC lots) in which the submitted samples were processed. The actual frequency should be greater than or equal to the expected frequency.

Matrix: **Soil/Solid**

Evaluation: × = QC frequency outside specification; ✓ = QC frequency within specification.

Quality Control Sample Type			Count		Frequency (%)		
Analytical Methods	*Method*	*QC Lot #*	*QC*	*Regular*	*Actual*	*Expected*	*Evaluation*
Laboratory Duplicates (DUP)							
Fluoride by IC (TCLP)	E240.F	531830	1	5	20.0	5.0	✓
Mercury by CVAAS (TCLP)	E512	531888	1	6	16.6	5.0	✓
Metals by CRC ICPMS (TCLP)	E444	531800	1	6	16.6	5.0	✓
Nitrate by IC (TCLP)	E240.NO3	531831	1	5	20.0	5.0	✓
Nitrite by IC (TCLP)	E240.NO2	531832	1	5	20.0	5.0	✓
PAHs by GC-MS (TCLP)	E644	541701	1	8	12.5	5.0	✓
PCB Aroclors by GC-MS (TCLP)	E688A	537041	1	8	12.5	5.0	✓
VOCs by Headspace GC-MS (TCLP)	E615B	531775	1	5	20.0	5.0	✓
WAD Cyanide (TCLP)	E337A	533381	1	5	20.0	5.0	✓
Laboratory Control Samples (LCS)							
Fluoride by IC (TCLP)	E240.F	531830	1	5	20.0	5.0	✓
Mercury by CVAAS (TCLP)	E512	531888	1	6	16.6	5.0	✓
Metals by CRC ICPMS (TCLP)	E444	531800	1	6	16.6	5.0	✓
Nitrate by IC (TCLP)	E240.NO3	531831	1	5	20.0	5.0	✓
Nitrite by IC (TCLP)	E240.NO2	531832	1	5	20.0	5.0	✓
PAHs by GC-MS (TCLP)	E644	541701	1	8	12.5	5.0	✓
PCB Aroclors by GC-MS (TCLP)	E688A	537041	1	8	12.5	5.0	✓
VOCs by Headspace GC-MS (TCLP)	E615B	531775	1	5	20.0	5.0	✓
WAD Cyanide (TCLP)	E337A	533381	1	5	20.0	5.0	✓
Method Blanks (MB)							
Fluoride by IC (TCLP)	E240.F	531830	1	5	20.0	5.0	✓
Mercury by CVAAS (TCLP)	E512	531888	1	6	16.6	5.0	✓
Metals by CRC ICPMS (TCLP)	E444	531800	1	6	16.6	5.0	✓
Nitrate by IC (TCLP)	E240.NO3	531831	1	5	20.0	5.0	✓
Nitrite by IC (TCLP)	E240.NO2	531832	1	5	20.0	5.0	✓
PAHs by GC-MS (TCLP)	E644	541701	1	8	12.5	5.0	✓
PCB Aroclors by GC-MS (TCLP)	E688A	537041	1	8	12.5	5.0	✓
VOCs by Headspace GC-MS (TCLP)	E615B	531775	1	5	20.0	5.0	✓
WAD Cyanide (TCLP)	E337A	533381	1	5	20.0	5.0	✓
Matrix Spikes (MS)							
Fluoride by IC (TCLP)	E240.F	531830	1	5	20.0	5.0	✓
Mercury by CVAAS (TCLP)	E512	531888	1	6	16.6	5.0	✓
Metals by CRC ICPMS (TCLP)	E444	531800	1	6	16.6	5.0	✓
Nitrate by IC (TCLP)	E240.NO3	531831	1	5	20.0	5.0	✓
Nitrite by IC (TCLP)	E240.NO2	531832	1	5	20.0	5.0	✓
PAHs by GC-MS (TCLP)	E644	541701	1	8	12.5	5.0	✓
PCB Aroclors by GC-MS (TCLP)	E688A	537041	1	8	12.5	5.0	✓

Matrix: **Soil/Solid**

Evaluation: × = *QC frequency outside specification*; ✓ = *QC frequency within specification.*

Quality Control Sample Type			Count		Frequency (%)		
Analytical Methods	*Method*	*QC Lot #*	*QC*	*Regular*	*Actual*	*Expected*	*Evaluation*
Matrix Spikes (MS) - Continued							
VOCs by Headspace GC-MS (TCLP)	E615B	531775	1	5	20.0	5.0	✓
WAD Cyanide (TCLP)	E337A	533381	1	5	20.0	5.0	✓

Methodology References and Summaries

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Reference methods may incorporate modifications to improve performance (indicated by "mod").

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Ignitability (O. Reg. 347/558)	E209 Waterloo - Environmental	Soil/Solid	EPA 1030 (mod)	Ignitability is determined by placing a sample on a ceramic tile and formed into a test strip. One end of the strip is then heated with a torch. Any burn rate for non-metallic samples that exceeds 2.2 mm/sec is considered to have a positive result. For metals, a burn rate of more than 0.17 mm/sec is considered to have a positive result.
Fluoride by IC (TCLP)	E240.F Waterloo - Environmental	Soil/Solid	EPA 1311/EPA 300.1 (mod)	Inorganic anions are analyzed by obtaining an extract produced by the Toxicity Characteristic Leachate Procedure (TCLP) as per EPA 1311, which is then analyzed by Ion Chromatography with conductivity and/or UV detection.
Nitrite by IC (TCLP)	E240.NO2 Waterloo - Environmental	Soil/Solid	EPA 1311/EPA 300.1 (mod)	Inorganic anions are analyzed by obtaining an extract produced by the Toxicity Characteristic Leachate Procedure (TCLP) as per EPA 1311, which is then analyzed by Ion Chromatography with conductivity and/or UV detection.
Nitrate by IC (TCLP)	E240.NO3 Waterloo - Environmental	Soil/Solid	EPA 1311/EPA 300.1 (mod)	Inorganic anions are analyzed by obtaining an extract produced by the Toxicity Characteristic Leachate Procedure (TCLP) as per EPA 1311, which is then analyzed by Ion Chromatography with conductivity and/or UV detection.
WAD Cyanide (TCLP)	E337A Waterloo - Environmental	Soil/Solid	APHA 4500-CN I (mod)	Weak Acid Dissociable (WAD) cyanide is determined after extraction by Continuous Flow Analyzer (CFA) with in-line distillation followed by colourmetric analysis.
Metals by CRC ICPMS (TCLP)	E444 Waterloo - Environmental	Soil/Solid	EPA 1311/6020B (mod)	An extract produced by the Toxicity Characteristic Leachate Procedure (TCLP) as per EPA 1311 is analyzed by Collision/Reaction Cell ICPMS.
Mercury by CVAAS (TCLP)	E512 Waterloo - Environmental	Soil/Solid	SW 846 -1311/245.1 CVAA ON TCLP LEACHATE	An extract produced by the Toxicity Characteristic Leachate Procedure (TCLP) as per EPA 1311 is analyzed by CVAAS.
VOCs by Headspace GC-MS (TCLP)	E615B Waterloo - Environmental	Soil/Solid	EPA 8260D (mod)	Volatile Organic Compounds (VOCs) are analyzed by static headspace GC-MS. Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler, causing VOCs to partition between the aqueous phase and the headspace in accordance with Henry's law.
PAHs by GC-MS (TCLP)	E644 Waterloo - Environmental	Soil/Solid	EPA 8270E (mod)	Polycyclic Aromatic Hydrocarbons (PAHs) are analyzed by GC-MS.
PCB Aroclors by GC-MS (TCLP)	E688A Waterloo - Environmental	Soil/Solid	EPA 8270E (mod)	PCB Aroclors are analyzed by GC-MS

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Nitrate and Nitrite (as N), (TCLP) (Calculation)	EC240.N+N Waterloo - Environmental	Soil/Solid	EPA 300.0	Nitrate and Nitrite (as N) is a calculated parameter. Nitrate and Nitrite (as N) = Nitrite (as N) + Nitrate (as N).

Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
VOCs Preparation for Headspace Analysis (TCLP)	EP582 Waterloo - Environmental	Soil/Solid	EPA 5021A (mod)	Liquid obtained after the TCLP process is prepared in headspace vials and are heated and agitated on the headspace autosampler, causing VOCs to partition between the aqueous phase and the headspace in accordance with Henry's law.
PHCs and PAHs Extraction (TCLP)	EP602 Waterloo - Environmental	Soil/Solid	EPA 3511 (mod)	Petroleum Hydrocarbons (PHCs) and Polycyclic Aromatic Hydrocarbons (PAHs) are extracted using a hexane liquid-liquid extraction.
Pesticides, PCB, PAH, and Neutral Extractable Chlorinated Hydrocarbons Extraction (High Level)	EP660-H Waterloo - Environmental	Soil/Solid	EPA 3570 (mod)	A homogenized subsample is extracted with organic solvents using a mechanical shaker.
Pesticides, PCB, and Neutral Extractable Chlorinated Hydrocarbons Extraction (TCLP)	EP661 Waterloo - Environmental	Soil/Solid	EPA 3511 (mod)	Samples are extracted from aqueous sample using an organic solvent liquid-liquid extraction.
TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)	EPP444 Waterloo - Environmental	Soil/Solid	EPA 1311	Preparation of a Toxicity Characteristic Leaching Procedure (TCLP) solid sample involves particle size reduction, homogenization, then determination of appropriate extraction fluid. A measured portion of fresh subsample is placed in an extraction bottle with the appropriate extraction fluid then tumbled in a rotary extractor for 18+/- 2 hours at 23 +/- 2 C. The liquid leachate is filtered to separate from solids then bottled and prepared for analytical tests.
TCLP Leachate Preparation (VOCs)	EPP582 Waterloo - Environmental	Soil/Solid	EPA 1311	An extract produced by the Toxicity Characteristic Leaching Procedure (TCLP) as per EPA 1311.

QUALITY CONTROL REPORT

Work Order	: **WT2205641**	Page	: 1 of 10
Client	: GHD Limited	Laboratory	: Waterloo - Environmental
Contact	: Jennifer Balkwill	Account Manager	: Rick Hawthorne
Address	: 455 Phillip Street Waterloo ON Canada N2L 3X2	Address	: 60 Northland Road, Unit 1 Waterloo, Ontario Canada N2V 2B8
Telephone	: ----	Telephone	: +1 519 886 6910
Project	: 12581540	Date Samples Received	: 15-Jun-2022 14:40
PO	: 735-003274	Date Analysis Commenced	: 17-Jun-2022
C-O-C number	: ----	Issue Date	: 30-Jun-2022 11:09
Sampler	: Jeffrey Bisson		
Site	: ----		
Quote number	: 12581540 - City of Mississauga		
No. of samples received	: 1		
No. of samples analysed	: 1		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percent Difference (RPD) and Data Quality Objectives
- Matrix Spike (MS) Report; Recovery and Data Quality Objectives
- Method Blank (MB) Report; Recovery and Data Quality Objectives
- Laboratory Control Sample (LCS) Report; Recovery and Data Quality Objectives

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

Signatories	*Position*	*Laboratory Department*
Jeremy Gingras	Team Leader - Semi-Volatile Instrumentation	Waterloo Organics, Waterloo, Ontario
Jocelyn Kennedy	Department Manager - Semi-Volatile Organics	Waterloo Organics, Waterloo, Ontario
Jon Fisher	Department Manager - Inorganics	Waterloo Inorganics, Waterloo, Ontario
Jon Fisher	Department Manager - Inorganics	Waterloo Metals, Waterloo, Ontario
Sarah Birch	Team Leader - Volatiles	Waterloo Organics, Waterloo, Ontario

General Comments

The ALS Quality Control (QC) report is optionally provided to ALS clients upon request. ALS test methods include comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined Data Quality Objectives (DQOs) to provide confidence in the accuracy of associated test results. This report contains detailed results for all QC results applicable to this sample submission. Please refer to the ALS Quality Control Interpretation report (QCI) for applicable method references and methodology summaries.

Key :

Anonymous = Refers to samples which are not part of this work order, but which formed part of the QC process lot.
CAS Number = Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
DQO = Data Quality Objective.
LOR = Limit of Reporting (detection limit).
RPD = Relative Percent Difference
# = Indicates a QC result that did not meet the ALS DQO.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Laboratory Duplicate (DUP) Report

A Laboratory Duplicate (DUP) is a randomly selected intralaboratory replicate sample. Laboratory Duplicates provide information regarding method precision and sample heterogeneity. ALS DQOs for Laboratory Duplicates are expressed as test-specific limits for Relative Percent Difference (RPD), or as an absolute difference limit of 2 times the LOR for low concentration duplicates within ~ 4-10 times the LOR (cut-off is test-specific).

Sub-Matrix: **Soil/Solid**

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	*Client sample ID*	*Analyte*	*CAS Number*	*Method*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD(%) or Difference*	*Duplicate Limits*	*Qualifier*
TCLP Extractables (QC Lot: 531830)											
WT2205641-001	S-12581540-220614-JB-TC LP	fluoride, TCLP	16984-48-8	E240.F	10	mg/L	<10	<10	0	Diff <2x LOR	----
TCLP Extractables (QC Lot: 531831)											
WT2205641-001	S-12581540-220614-JB-TC LP	nitrate (as N), TCLP	14797-55-8	E240.NO3	5.0	mg/L	<5.0	<5.0	0	Diff <2x LOR	----
TCLP Extractables (QC Lot: 531832)											
WT2205641-001	S-12581540-220614-JB-TC LP	nitrite (as N), TCLP	14797-65-0	E240.NO2	5.0	mg/L	<5.0	<5.0	0	Diff <2x LOR	----
TCLP Extractables (QC Lot: 533381)											
WT2205641-001	S-12581540-220614-JB-TC LP	cyanide, weak acid dissociable, TCLP	----	E337A	0.10	mg/L	<0.10	<0.10	0	Diff <2x LOR	----
TCLP Extractables (QC Lot: 537041)											
WT2205961-002	Anonymous	Aroclor 1016, TCLP	12674-11-2	E688A	0.20	µg/L	<0.00020 mg/L	<0.20	0	Diff <2x LOR	----
		Aroclor 1221, TCLP	11104-28-2	E688A	0.20	µg/L	<0.00020 mg/L	<0.20	0	Diff <2x LOR	----
		Aroclor 1232, TCLP	11141-16-5	E688A	0.20	µg/L	<0.00020 mg/L	<0.20	0	Diff <2x LOR	----
		Aroclor 1242, TCLP	53469-21-9	E688A	0.20	µg/L	<0.00020 mg/L	<0.20	0	Diff <2x LOR	----
		Aroclor 1248, TCLP	12672-29-6	E688A	0.20	µg/L	<0.00020 mg/L	<0.20	0	Diff <2x LOR	----
		Aroclor 1254, TCLP	11097-69-1	E688A	0.20	µg/L	<0.00020 mg/L	<0.20	0	Diff <2x LOR	----
		Aroclor 1260, TCLP	11096-82-5	E688A	0.20	µg/L	<0.00020 mg/L	<0.20	0	Diff <2x LOR	----
		Aroclor 1262, TCLP	37324-23-5	E688A	0.20	µg/L	<0.00020 mg/L	<0.20	0	Diff <2x LOR	----
		Aroclor 1268, TCLP	11100-14-4	E688A	0.20	µg/L	<0.00020 mg/L	<0.20	0	Diff <2x LOR	----
TCLP Extractables (QC Lot: 541701)											
WT2206148-001	Anonymous	benzo(a)pyrene, TCLP	50-32-8	E644	0.50	µg/L	<0.00050 mg/L	<0.50	0	Diff <2x LOR	----
TCLP Metals (QC Lot: 531800)											
WT2205641-001	S-12581540-220614-JB-TC LP	arsenic, TCLP	7440-38-2	E444	1.0	mg/L	<1.0	<1.0	0	Diff <2x LOR	----
		barium, TCLP	7440-39-3	E444	2.5	mg/L	<2.5	<2.5	0	Diff <2x LOR	----
		boron, TCLP	7440-42-8	E444	0.50	mg/L	<0.50	<0.50	0	Diff <2x LOR	----
		cadmium, TCLP	7440-43-9	E444	0.050	mg/L	<0.050	<0.050	0	Diff <2x LOR	----
		chromium, TCLP	7440-47-3	E444	0.25	mg/L	<0.25	<0.25	0	Diff <2x LOR	----

Sub-Matrix: **Soil/Solid**

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	*Client sample ID*	*Analyte*	*CAS Number*	*Method*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD(%) or Difference*	*Duplicate Limits*	*Qualifier*
TCLP Metals (QC Lot: 531800) - continued											
WT2205641-001	S-12581540-220614-JB-TCLP	lead, TCLP	7439-92-1	E444	0.25	mg/L	<0.25	<0.25	0	Diff <2x LOR	----
		selenium, TCLP	7782-49-2	E444	0.10	mg/L	<0.10	<0.10	0	Diff <2x LOR	----
		silver, TCLP	7440-22-4	E444	0.050	mg/L	<0.050	<0.050	0	Diff <2x LOR	----
		uranium, TCLP	7440-61-1	E444	0.20	mg/L	<0.20	<0.20	0	Diff <2x LOR	----
TCLP Metals (QC Lot: 531888)											
WT2205641-001	S-12581540-220614-JB-TCLP	mercury, TCLP	7439-97-6	E512	0.0010	mg/L	<0.0010	<0.0010	0	Diff <2x LOR	----
TCLP VOCs (QC Lot: 531775)											
WT2205783-002	Anonymous	benzene, TCLP	71-43-2	E615B	5.0	µg/L	<0.0050 mg/L	<5.0	0	Diff <2x LOR	----
		carbon tetrachloride, TCLP	56-23-5	E615B	25	µg/L	<0.025 mg/L	<25	0	Diff <2x LOR	----
		chlorobenzene, TCLP	108-90-7	E615B	25	µg/L	<0.025 mg/L	<25	0	Diff <2x LOR	----
		chloroform, TCLP	67-66-3	E615B	100	µg/L	<0.10 mg/L	<100	0	Diff <2x LOR	----
		dichlorobenzene, 1,2-, TCLP	95-50-1	E615B	25	µg/L	<0.025 mg/L	<25	0	Diff <2x LOR	----
		dichlorobenzene, 1,4-, TCLP	106-46-7	E615B	25	µg/L	<0.025 mg/L	<25	0	Diff <2x LOR	----
		dichloroethane, 1,2-, TCLP	107-06-2	E615B	25	µg/L	<0.025 mg/L	<25	0	Diff <2x LOR	----
		dichloroethylene, 1,1-, TCLP	75-35-4	E615B	25	µg/L	<0.025 mg/L	<25	0	Diff <2x LOR	----
		dichloromethane, TCLP	75-09-2	E615B	100	µg/L	<0.10 mg/L	<100	0	Diff <2x LOR	----
		methyl ethyl ketone [MEK], TCLP	78-93-3	E615B	100	µg/L	<0.10 mg/L	<100	0	Diff <2x LOR	----
		tetrachloroethylene, TCLP	127-18-4	E615B	25	µg/L	<0.025 mg/L	<25	0	Diff <2x LOR	----
		trichloroethylene, TCLP	79-01-6	E615B	25	µg/L	<0.025 mg/L	<25	0	Diff <2x LOR	----
		vinyl chloride, TCLP	75-01-4	E615B	50	µg/L	<0.050 mg/L	<50	0	Diff <2x LOR	----

Method Blank (MB) Report

A Method Blank is an analyte-free matrix that undergoes sample processing identical to that carried out for test samples. Method Blank results are used to monitor and control for potential contamination from the laboratory environment and reagents. For most tests, the DQO for Method Blanks is for the result to be < LOR.

Sub-Matrix: **Soil/Solid**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
TCLP Extractables (QCLot: 531830)						
fluoride, TCLP	16984-48-8	E240.F	10	mg/L	<10	----
TCLP Extractables (QCLot: 531831)						
nitrate (as N), TCLP	14797-55-8	E240.NO3	5	mg/L	<5.0	----
TCLP Extractables (QCLot: 531832)						
nitrite (as N), TCLP	14797-65-0	E240.NO2	5	mg/L	<5.0	----
TCLP Extractables (QCLot: 533381)						
cyanide, weak acid dissociable, TCLP	----	E337A	0.1	mg/L	<0.10	----
TCLP Extractables (QCLot: 537041)						
Aroclor 1016, TCLP	12674-11-2	E688A	0.2	µg/L	<0.20	----
Aroclor 1221, TCLP	11104-28-2	E688A	0.2	µg/L	<0.20	----
Aroclor 1232, TCLP	11141-16-5	E688A	0.2	µg/L	<0.20	----
Aroclor 1242, TCLP	53469-21-9	E688A	0.2	µg/L	<0.20	----
Aroclor 1248, TCLP	12672-29-6	E688A	0.2	µg/L	<0.20	----
Aroclor 1254, TCLP	11097-69-1	E688A	0.2	µg/L	<0.20	----
Aroclor 1260, TCLP	11096-82-5	E688A	0.2	µg/L	<0.20	----
Aroclor 1262, TCLP	37324-23-5	E688A	0.2	µg/L	<0.20	----
Aroclor 1268, TCLP	11100-14-4	E688A	0.2	µg/L	<0.20	----
TCLP Extractables (QCLot: 541701)						
benzo(a)pyrene, TCLP	50-32-8	E644	0.5	µg/L	<0.50	----
TCLP Metals (QCLot: 531800)						
arsenic, TCLP	7440-38-2	E444	1	mg/L	<1.0	----
barium, TCLP	7440-39-3	E444	2.5	mg/L	<2.5	----
boron, TCLP	7440-42-8	E444	0.5	mg/L	<0.50	----
cadmium, TCLP	7440-43-9	E444	0.05	mg/L	<0.050	----
chromium, TCLP	7440-47-3	E444	0.25	mg/L	<0.25	----
lead, TCLP	7439-92-1	E444	0.25	mg/L	<0.25	----
selenium, TCLP	7782-49-2	E444	0.1	mg/L	<0.10	----
silver, TCLP	7440-22-4	E444	0.05	mg/L	<0.050	----
uranium, TCLP	7440-61-1	E444	0.2	mg/L	<0.20	----
TCLP Metals (QCLot: 531888)						
mercury, TCLP	7439-97-6	E512	0.001	mg/L	<0.0010	----
TCLP VOCs (QCLot: 531775)						
benzene, TCLP	71-43-2	E615B	5	µg/L	<5.0	----

Sub-Matrix: **Soil/Solid**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
TCLP VOCs (QCLot: 531775) - continued						
carbon tetrachloride, TCLP	56-23-5	E615B	25	µg/L	<25	----
chlorobenzene, TCLP	108-90-7	E615B	25	µg/L	<25	----
chloroform, TCLP	67-66-3	E615B	100	µg/L	<100	----
dichlorobenzene, 1,2-, TCLP	95-50-1	E615B	25	µg/L	<25	----
dichlorobenzene, 1,4-, TCLP	106-46-7	E615B	25	µg/L	<25	----
dichloroethane, 1,2-, TCLP	107-06-2	E615B	25	µg/L	<25	----
dichloroethylene, 1,1-, TCLP	75-35-4	E615B	25	µg/L	<25	----
dichloromethane, TCLP	75-09-2	E615B	100	µg/L	<100	----
methyl ethyl ketone [MEK], TCLP	78-93-3	E615B	100	µg/L	<100	----
tetrachloroethylene, TCLP	127-18-4	E615B	25	µg/L	<25	----
trichloroethylene, TCLP	79-01-6	E615B	25	µg/L	<25	----
vinyl chloride, TCLP	75-01-4	E615B	50	µg/L	<50	----

Laboratory Control Sample (LCS) Report

A Laboratory Control Sample (LCS) is an analyte-free matrix that has been fortified (spiked) with test analytes at known concentration and processed in an identical manner to test samples. LCS results are expressed as percent recovery, and are used to monitor and control test method accuracy and precision, independent of test sample matrix.

Sub-Matrix: **Soil/Solid**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Concentration	LCS	Low	High	Qualifier
TCLP Extractables (QCLot: 531830)									
fluoride, TCLP	16984-48-8	E240.F	10	mg/L	1 mg/L	92.1	70.0	130	----
TCLP Extractables (QCLot: 531831)									
nitrate (as N), TCLP	14797-55-8	E240.NO3	5	mg/L	2.5 mg/L	98.1	70.0	130	----
TCLP Extractables (QCLot: 531832)									
nitrite (as N), TCLP	14797-65-0	E240.NO2	5	mg/L	0.5 mg/L	97.5	70.0	130	----
TCLP Extractables (QCLot: 533381)									
cyanide, weak acid dissociable, TCLP	----	E337A	0.1	mg/L	6.25 mg/L	99.0	70.0	130	----
TCLP Extractables (QCLot: 537041)									
Aroclor 1016, TCLP	12674-11-2	E688A	0.2	µg/L	0.2 µg/L	97.0	65.0	130	----
Aroclor 1221, TCLP	11104-28-2	E688A	0.2	µg/L	0.2 µg/L	97.0	65.0	130	----
Aroclor 1232, TCLP	11141-16-5	E688A	0.2	µg/L	0.2 µg/L	97.0	65.0	130	----
Aroclor 1242, TCLP	53469-21-9	E688A	0.2	µg/L	0.2 µg/L	97.0	65.0	130	----
Aroclor 1248, TCLP	12672-29-6	E688A	0.2	µg/L	0.2 µg/L	90.3	65.0	130	----
Aroclor 1254, TCLP	11097-69-1	E688A	0.2	µg/L	0.2 µg/L	101	65.0	130	----
Aroclor 1260, TCLP	11096-82-5	E688A	0.2	µg/L	0.2 µg/L	90.9	65.0	130	----
Aroclor 1262, TCLP	37324-23-5	E688A	0.2	µg/L	0.2 µg/L	90.9	65.0	130	----
Aroclor 1268, TCLP	11100-14-4	E688A	0.2	µg/L	0.2 µg/L	90.9	65.0	130	----
TCLP Extractables (QCLot: 541701)									
benzo(a)pyrene, TCLP	50-32-8	E644	0.5	µg/L	0.5263 µg/L	92.3	60.0	140	----
TCLP Metals (QCLot: 531800)									
arsenic, TCLP	7440-38-2	E444	1	mg/L	0.05 mg/L	112	70.0	130	----
barium, TCLP	7440-39-3	E444	2.5	mg/L	0.0125 mg/L	110	70.0	130	----
boron, TCLP	7440-42-8	E444	0.5	mg/L	0.05 mg/L	104	70.0	130	----
cadmium, TCLP	7440-43-9	E444	0.05	mg/L	0.005 mg/L	113	70.0	130	----
chromium, TCLP	7440-47-3	E444	0.25	mg/L	0.0125 mg/L	111	70.0	130	----
lead, TCLP	7439-92-1	E444	0.25	mg/L	0.025 mg/L	110	70.0	130	----
selenium, TCLP	7782-49-2	E444	0.1	mg/L	0.05 mg/L	109	70.0	130	----
silver, TCLP	7440-22-4	E444	0.05	mg/L	0.005 mg/L	98.4	70.0	130	----
uranium, TCLP	7440-61-1	E444	0.2	mg/L	0.00025 mg/L	115	70.0	130	----
TCLP Metals (QCLot: 531888)									
mercury, TCLP	7439-97-6	E512	0.001	mg/L	0.0001 mg/L	99.3	70.0	130	----
TCLP VOCs (QCLot: 531775)									

Sub-Matrix: **Soil/Solid**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Concentration	LCS	Low	High	Qualifier
TCLP VOCs (QCLot: 531775) - continued									
benzene, TCLP	71-43-2	E615B	5	µg/L	250 µg/L	108	70.0	130	----
carbon tetrachloride, TCLP	56-23-5	E615B	25	µg/L	250 µg/L	113	60.0	140	----
chlorobenzene, TCLP	108-90-7	E615B	25	µg/L	250 µg/L	105	70.0	130	----
chloroform, TCLP	67-66-3	E615B	100	µg/L	250 µg/L	106	70.0	130	----
dichlorobenzene, 1,2-, TCLP	95-50-1	E615B	25	µg/L	250 µg/L	108	70.0	130	----
dichlorobenzene, 1,4-, TCLP	106-46-7	E615B	25	µg/L	250 µg/L	108	70.0	130	----
dichloroethane, 1,2-, TCLP	107-06-2	E615B	25	µg/L	250 µg/L	114	70.0	130	----
dichloroethylene, 1,1-, TCLP	75-35-4	E615B	25	µg/L	250 µg/L	107	70.0	130	----
dichloromethane, TCLP	75-09-2	E615B	100	µg/L	250 µg/L	115	70.0	130	----
methyl ethyl ketone [MEK], TCLP	78-93-3	E615B	100	µg/L	250 µg/L	95.3	50.0	150	----
tetrachloroethylene, TCLP	127-18-4	E615B	25	µg/L	250 µg/L	102	70.0	130	----
trichloroethylene, TCLP	79-01-6	E615B	25	µg/L	250 µg/L	90.1	70.0	130	----
vinyl chloride, TCLP	75-01-4	E615B	50	µg/L	250 µg/L	102	60.0	130	----

Matrix Spike (MS) Report

A Matrix Spike (MS) is a randomly selected intra-laboratory replicate sample that has been fortified (spiked) with test analytes at known concentration, and processed in an identical manner to test samples. Matrix Spikes provide information regarding analyte recovery and potential matrix effects. MS DQO exceedances due to sample matrix may sometimes be unavoidable; in such cases, test results for the associated sample (or similar samples) may be subject to bias. ND – Recovery not determined, background level >= 1x spike level.

Sub-Matrix: **Soil/Solid**

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
TCLP Extractables (QCLot: 531830)										
WT2205641-001	S-12581540-220614-JB-TCLP	fluoride, TCLP	16984-48-8	E240.F	19 mg/L	20 mg/L	93.8	50.0	150	----
TCLP Extractables (QCLot: 531831)										
WT2205641-001	S-12581540-220614-JB-TCLP	nitrate (as N), TCLP	14797-55-8	E240.NO3	49.4 mg/L	50 mg/L	98.8	50.0	150	----
TCLP Extractables (QCLot: 531832)										
WT2205641-001	S-12581540-220614-JB-TCLP	nitrite (as N), TCLP	14797-65-0	E240.NO2	9.8 mg/L	10 mg/L	98.3	50.0	150	----
TCLP Extractables (QCLot: 533381)										
WT2205641-001	S-12581540-220614-JB-TCLP	cyanide, weak acid dissociable, TCLP	----	E337A	6.24 mg/L	6.25 mg/L	99.9	50.0	140	----
TCLP Extractables (QCLot: 537041)										
WT2205961-002	Anonymous	Aroclor 1016, TCLP	12674-11-2	E688A	0.22 µg/L	0.2 µg/L	108	50.0	150	----
		Aroclor 1221, TCLP	11104-28-2	E688A	0.22 µg/L	0.2 µg/L	108	50.0	150	----
		Aroclor 1232, TCLP	11141-16-5	E688A	0.22 µg/L	0.2 µg/L	108	50.0	150	----
		Aroclor 1242, TCLP	53469-21-9	E688A	0.21 µg/L	0.2 µg/L	107	50.0	150	----
		Aroclor 1248, TCLP	12672-29-6	E688A	0.22 µg/L	0.2 µg/L	108	50.0	150	----
		Aroclor 1254, TCLP	11097-69-1	E688A	0.23 µg/L	0.2 µg/L	116	50.0	150	----
		Aroclor 1260, TCLP	11096-82-5	E688A	0.21 µg/L	0.2 µg/L	107	50.0	150	----
		Aroclor 1262, TCLP	37324-23-5	E688A	0.21 µg/L	0.2 µg/L	107	50.0	150	----
		Aroclor 1268, TCLP	11100-14-4	E688A	0.21 µg/L	0.2 µg/L	107	50.0	150	----
TCLP Extractables (QCLot: 541701)										
WT2206148-001	Anonymous	benzo(a)pyrene, TCLP	50-32-8	E644	0.47 µg/L	0.5263 µg/L	88.6	50.0	140	----
TCLP Metals (QCLot: 531800)										
WT2205641-001	S-12581540-220614-JB-TCLP	arsenic, TCLP	7440-38-2	E444	9.2 mg/L	10 mg/L	91.6	50.0	140	----
		barium, TCLP	7440-39-3	E444	13.6 mg/L	12.5 mg/L	109	50.0	140	----
		boron, TCLP	7440-42-8	E444	10.9 mg/L	10 mg/L	109	50.0	140	----
		cadmium, TCLP	7440-43-9	E444	11.0 mg/L	10 mg/L	110	50.0	140	----
		chromium, TCLP	7440-47-3	E444	11.5 mg/L	10 mg/L	115	50.0	140	----
		lead, TCLP	7439-92-1	E444	10.3 mg/L	10 mg/L	103	50.0	140	----
		selenium, TCLP	7782-49-2	E444	10.8 mg/L	10 mg/L	108	50.0	140	----
		silver, TCLP	7440-22-4	E444	0.100 mg/L	0.1 mg/L	99.7	50.0	140	----
		uranium, TCLP	7440-61-1	E444	10.4 mg/L	10 mg/L	104	50.0	140	----

Sub-Matrix: **Soil/Solid**

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
TCLP Metals (QCLot: 531888)										
WT2205641-001	S-12581540-220614-JB-TCLP	mercury, TCLP	7439-97-6	E512	0.0029 mg/L	0.003 mg/L	97.9	50.0	140	----
TCLP VOCs (QCLot: 531775)										
WT2205783-002	Anonymous	benzene, TCLP	71-43-2	E615B	284 µg/L	250 µg/L	113	50.0	140	----
		carbon tetrachloride, TCLP	56-23-5	E615B	284 µg/L	250 µg/L	114	50.0	140	----
		chlorobenzene, TCLP	108-90-7	E615B	264 µg/L	250 µg/L	106	50.0	140	----
		chloroform, TCLP	67-66-3	E615B	250 µg/L	250 µg/L	101	50.0	140	----
		dichlorobenzene, 1,2-, TCLP	95-50-1	E615B	273 µg/L	250 µg/L	109	50.0	140	----
		dichlorobenzene, 1,4-, TCLP	106-46-7	E615B	280 µg/L	250 µg/L	112	50.0	140	----
		dichloroethane, 1,2-, TCLP	107-06-2	E615B	234 µg/L	250 µg/L	93.8	50.0	140	----
		dichloroethylene, 1,1-, TCLP	75-35-4	E615B	276 µg/L	250 µg/L	110	50.0	140	----
		dichloromethane, TCLP	75-09-2	E615B	290 µg/L	250 µg/L	116	50.0	140	----
		methyl ethyl ketone [MEK], TCLP	78-93-3	E615B	220 µg/L	250 µg/L	88.6	50.0	140	----
		tetrachloroethylene, TCLP	127-18-4	E615B	263 µg/L	250 µg/L	105	50.0	140	----
		trichloroethylene, TCLP	79-01-6	E615B	262 µg/L	250 µg/L	105	50.0	140	----
		vinyl chloride, TCLP	75-01-4	E615B	223 µg/L	250 µg/L	89.0	50.0	140	----

Chain of Custody (COC) / Analytical Request Form

COC Number: 20 - JD1

Canada Toll Free: 1 800 668 9878

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Environmental Division Waterloo
Work Order Reference
WT2205641

Telephone : +1 519 886 6910

Report To	Contact and company name below will appear on the final report	Reports / Recipients	Turnaround Time (TAT) Requested
Company:	GHD Ltd. (Acct 13791)	Select Report Format: ☑ PDF ☐ EXCEL ☐ EDD (DIGITAL)	☐ Routine [R] if received by 3pm M-F - no surcharges apply
Contact:	Jennifer Balkwill	Merge QC/QCI Reports with COA ☐ YES ☐ NO ☐ N/A	☐ 4 day [P4] if received by 3pm M-F - 20% rush surcharge minimum
Phone:	519-884-0510	☐ Compare Results to Criteria on Report - provide details below if box checked	☐ 3 day [P3] if received by 3pm M-F - 25% rush surcharge minimum
	Company address below will appear on the final report	Select Distribution: ☑ EMAIL ☐ MAIL ☐ FAX	☐ 2 day [P2] if received by 3pm M-F - 50% rush surcharge minimum
Street:	455 Phillip St.	Email 1 or Fax: jennifer.balkwill@ghd.com	☐ 1 day [E] if received by 3pm M-F - 100% rush surcharge minimum. Same day [E2] if received by 10am M-S - 200% rush surcharge. Additional fees may apply to rush requests on weekends, statutory holidays and routine tests
City/Province:	Waterloo, ON	Email 2: See SSOW/PO	Date and Time Required for all E&P TATs:
Postal Code:	N2L 3X2	Email 3:	For tests that can not be performed according to the
Invoice To	Same as Report To ☑ YES ☐ NO	Invoice Recipients	Analysis Req
	Copy of Invoice with Report ☐ YES ☑ NO	Select Invoice Distribution: ☑ EMAIL ☐ MAIL ☐ FAX	Indicate Filtered (F), Preserved (P) or Filtered and
Company:	GHD Ltd. (Acct 13791)	Email 1 or Fax: Invoicing-Canada@ghd.com	
Contact:		Email 2:	

Project Information		Oil and Gas Required Fields (client use)	
ALS Account # / Quote #:		AFE/Cost Center:	PO#:
Job #:	12581540	Major/Minor Code:	Routing Code:
PO / AFE:	735-003274	Requisitioner:	
LSD:		Location:	

ALS Lab Work Order # (lab use only): WT2205641 JD1 | ALS Contact: Rick H | Sampler: J Bisson

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	O.Reg Metals and Inorganics	PAHs(PAH-511-WT)	VOC/PHC(VOC-F1-F4-511-P-WT)	PCBs	VOC,F1 Trip Blank	TCLP Metals/Inorganics	TCLP VOCs	TCLP benzo(a)pyrene	TCLP PCBs	Ignitability	SAMPLES ON HOLD	EXTENDED STORAGE REQ	SUSPECTED HAZARD (see
	S-12581540-220614-JB-TCLP	14-JUN-22	1730	SOIL	4						✓	✓	✓	✓	✓			

Drinking Water (DW) Samples[1] (client use)	Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)
Are samples taken from a Regulated DW System? ☐ YES ☑ NO	
Are samples for human consumption/ use? ☐ YES ☑ NO	

SAMPLE RECEIPT DETAILS (lab use only)

Cooling Method: ☐ NONE ☑ ICE ☐ ICE PACKS ☐ FROZEN ☐ COOLING INITIATED

Submission Comments identified on Sample Receipt Notification: ☐ YES ☐ NO

Cooler Custody Seals Intact: ☐ YES ☐ N/A | Sample Custody Seals Intact: ☐ YES ☐ N/A

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
3.8							

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)		
Released by: JBISSON	Date: 2022-JN-15	Time: 1915	Received by: HK	Date: 06/15/22	Time: 14:30	Received by:	Date:	Time:

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

ALS 2020 FRONT

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

Chain of Custody (COC) / Analytical Request Form

COC Number: 20 - JD1

Canada Toll Free: 1 800 668 9878

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ALS www.alsglobal.com

Environmental Division Waterloo

Work Order Reference WT2205641

Telephone : +1 519 886 6910

Report To	Contact and company name below will appear on the final report
Company:	GHD Ltd. (Acct 13791)
Contact:	Jennifer Balkwill
Phone:	519-884-0510
	Company address below will appear on the final report
Street:	455 Phillip St.
City/Province:	Waterloo, ON
Postal Code:	N2L 3X2
Invoice To	Same as Report To ☑ YES ☐ NO
	Copy of Invoice with Report ☐ YES ☑ NO
Company:	GHD Ltd. (Acct 13791)
Contact:	

Project Information	
ALS Account # / Quote #:	
Job #:	12581540
PO / AFE:	735-003274
LSD:	

Reports / Recipients

Select Report Format: ☑ PDF ☐ EXCEL ☐ EDD (DIGITAL)

Merge QC/QCI Reports with COA ☐ YES ☐ NO ☐ N/A

☐ Compare Results to Criteria on Report - provide details below if box checked

Select Distribution: ☑ EMAIL ☐ MAIL ☐ FAX

Email 1 or Fax: jennifer.balkwill@ghd.com

Email 2: See SSOW/PO

Email 3:

Invoice Recipients

Select Invoice Distribution: ☑ EMAIL ☐ MAIL ☐ FAX

Email 1 or Fax: Invoicing-Canada@ghd.com

Email 2:

Oil and Gas Required Fields (client use)

AFE/Cost Center:	PO#
Major/Minor Code:	Routing Code:
Requisitioner:	
Location:	

ALS Contact: Rick H Sampler: J Bisson

ALS Lab Work Order # (lab use only): WT2205641 JD1

Turnaround Time (TAT) Requested

☐ Routine [R] if received by 3pm M-F - no surcharges apply

☐ 4 day [P4] if received by 3pm M-F - 20% rush surcharge minimum

☐ 3 day [P3] if received by 3pm M-F - 25% rush surcharge minimum

☐ 2 day [P2] if received by 3pm M-F - 50% rush surcharge minimum

☐ 1 day [E] if received by 3pm M-F - 100% rush surcharge minimum

Same day [E2] if received by 10am M-S - 200% rush surcharge. Additional fees may apply to rush requests on weekends, statutory holidays and routine tests

Date and Time Required for all E&P TATs:

For tests that can not be performed according to the

Analysis Req

Indicate Filtered (F), Preserved (P) or Filtered and

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	O.Reg Metals and Inorganics	PAHs(PAH-511-WT)	VOC/PHC(VOC-F1-F4-511-P-WT)	PCBs	VOC,F1 Trip Blank	TCLP Metals/Inorganics	TCLP VOCs	TCLP benzo(a)pyrene	TCLP PCBs	Ignitability	SAMPLES ON HOLD	EXTENDED STORAGE REQ	SUSPECTED HAZARD (see
	S-12581540-220614-JB-TCLP	14-JUN-22	1730	SOIL	4						✓	✓	✓	✓	✓			

Drinking Water (DW) Samples[1] (client use)

Are samples taken from a Regulated DW System? ☐ YES ☑ NO

Are samples for human consumption/ use? ☐ YES ☑ NO

Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)

SAMPLE RECEIPT DETAILS (lab use only)

Cooling Method: ☐ NONE ☑ ICE ☐ ICE PACKS ☐ FROZEN ☐ COOLING INITIATED

Submission Comments identified on Sample Receipt Notification: ☐ YES ☐ NO

Cooler Custody Seals Intact: ☐ YES ☐ N/A Sample Custody Seals Intact: ☐ YES ☐ N/A

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
3.8				2.9			

SHIPMENT RELEASE (client use)

Released by: J Bisson Date: 2022-JN-15 Time: 1945

INITIAL SHIPMENT RECEPTION (lab use only)

Received by: H.K Date: 06/15/22 Time: 14:30

FINAL SHIPMENT RECEPTION (lab use only)

Received by: KD Date: 06/16/22 Time: 0900

REFER BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

[1] If samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

AUG 2020 FRONT

CERTIFICATE OF ANALYSIS

Work Order	: **WT2205959**	Page	: 1 of 18
Client	: **GHD Limited**	Laboratory	: Waterloo - Environmental
Contact	: Jennifer Balkwill	Account Manager	: Rick Hawthorne
Address	: 455 Phillip Street Waterloo ON Canada N2L 3X2	Address	: 60 Northland Road, Unit 1 Waterloo ON Canada N2V 2B8
Telephone	: ----	Telephone	: +1 519 886 6910
Project	: 12581540	Date Samples Received	: 21-Jun-2022 11:30
PO	: 735-003274	Date Analysis Commenced	: 22-Jun-2022
C-O-C number	: ----	Issue Date	: 29-Jun-2022 13:23
Sampler	: Sam Bessai		
Site	: ----		
Quote number	: 12581540 - City of Mississauga		
No. of samples received	: 6		
No. of samples analysed	: 6		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with FDA 21 CFR Part 11.

Signatories	*Position*	*Laboratory Department*
Greg Pokocky	Supervisor - Inorganic	Inorganics, Waterloo, Ontario
Greg Pokocky	Supervisor - Inorganic	Metals, Waterloo, Ontario
Jeremy Gingras	Team Leader - Semi-Volatile Instrumentation	Organics, Waterloo, Ontario
Sarah Birch	Team Leader - Volatiles	Organics, Waterloo, Ontario

General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.
Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key : CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances
LOR: Limit of Reporting (detection limit).

Unit	*Description*
-	No Unit
µg/L	micrograms per litre
mg/L	milligrams per litre
mS/cm	millisiemens per centimetre
pH units	pH units

>: greater than.
<: less than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Qualifiers

Qualifier	*Description*
DLDS	*Detection Limit Raised: Dilution required due to high Dissolved Solids / Electrical Conductivity.*
DLHC	*Detection Limit Raised: Dilution required due to high concentration of test analyte(s).*
DLM	*Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity).*
OWP	*Organic water sample contained visible sediment (must be included as part of analysis). Measured concentrations of organic substances in water can be biased high due to presence of sediment.*

Analytical Results

WT2205959-001

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: GW-12581540-220617-SB-MW1
Client sampling date / time: 17-Jun-2022 11:55

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Physical Tests								
conductivity	----	2.06	0.0010	mS/cm	E100	22-Jun-2022	24-Jun-2022	533318
pH	----	7.64	0.10	pH units	E108	22-Jun-2022	22-Jun-2022	533317
Anions and Nutrients								
chloride	16887-00-6	339 DLDS	2.50	mg/L	E235.Cl	22-Jun-2022	22-Jun-2022	533311
Cyanides								
cyanide, weak acid dissociable	----	<2.0	2.0	µg/L	E336	24-Jun-2022	24-Jun-2022	537265
Dissolved Metals								
antimony, dissolved	7440-36-0	1.92	0.10	µg/L	E421	22-Jun-2022	22-Jun-2022	533756
arsenic, dissolved	7440-38-2	3.59	0.10	µg/L	E421	22-Jun-2022	22-Jun-2022	533756
barium, dissolved	7440-39-3	132	0.10	µg/L	E421	22-Jun-2022	22-Jun-2022	533756
beryllium, dissolved	7440-41-7	<0.020	0.020	µg/L	E421	22-Jun-2022	22-Jun-2022	533756
boron, dissolved	7440-42-8	187	10	µg/L	E421	22-Jun-2022	22-Jun-2022	533756
cadmium, dissolved	7440-43-9	0.0124	0.0050	µg/L	E421	22-Jun-2022	22-Jun-2022	533756
chromium, dissolved	7440-47-3	<0.50	0.50	µg/L	E421	22-Jun-2022	22-Jun-2022	533756
cobalt, dissolved	7440-48-4	0.78	0.10	µg/L	E421	22-Jun-2022	22-Jun-2022	533756
copper, dissolved	7440-50-8	1.87	0.20	µg/L	E421	22-Jun-2022	22-Jun-2022	533756
lead, dissolved	7439-92-1	0.056	0.050	µg/L	E421	22-Jun-2022	22-Jun-2022	533756
mercury, dissolved	7439-97-6	<0.0050	0.0050	µg/L	E509	22-Jun-2022	22-Jun-2022	533342
molybdenum, dissolved	7439-98-7	9.18	0.050	µg/L	E421	22-Jun-2022	22-Jun-2022	533756
nickel, dissolved	7440-02-0	4.03	0.50	µg/L	E421	22-Jun-2022	22-Jun-2022	533756
selenium, dissolved	7782-49-2	0.388	0.050	µg/L	E421	22-Jun-2022	22-Jun-2022	533756
silver, dissolved	7440-22-4	<0.010	0.010	µg/L	E421	22-Jun-2022	22-Jun-2022	533756
sodium, dissolved	7440-23-5	174000 DLHC	500	µg/L	E421	22-Jun-2022	22-Jun-2022	533756
thallium, dissolved	7440-28-0	0.034	0.010	µg/L	E421	22-Jun-2022	22-Jun-2022	533756
uranium, dissolved	7440-61-1	5.84	0.010	µg/L	E421	22-Jun-2022	22-Jun-2022	533756
vanadium, dissolved	7440-62-2	1.16	0.50	µg/L	E421	22-Jun-2022	22-Jun-2022	533756
zinc, dissolved	7440-66-6	4.9	1.0	µg/L	E421	22-Jun-2022	22-Jun-2022	533756
dissolved mercury filtration location	----	Field	-	-	EP509	-	22-Jun-2022	533342
dissolved metals filtration location	----	Field	-	-	EP421	-	22-Jun-2022	533756
Speciated Metals								
chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.50	0.50	µg/L	E532A	-	22-Jun-2022	533642
Volatile Organic Compounds								
acetone	67-64-1	<20	20	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
benzene	71-43-2	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
bromoform	75-25-2	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
bromomethane	74-83-9	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
chloroform	67-66-3	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783

Analytical Results

WT2205959-001

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: GW-12581540-220617-SB-MW1
Client sampling date / time: 17-Jun-2022 11:55

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
styrene	100-42-5	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
toluene	108-88-3	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
BTEX, total	----	<1.0	1.0	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
Volatile Organic Compounds Surrogates								
bromofluorobenzene, 4-	460-00-4	104	1.0	%	E611D	22-Jun-2022	22-Jun-2022	534783
difluorobenzene, 1,4-	540-36-3	97.6	1.0	%	E611D	22-Jun-2022	22-Jun-2022	534783
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L	22-Jun-2022	22-Jun-2022	534784
F2 (C10-C16)	----	<100	100	µg/L	E601.SG	28-Jun-2022	29-Jun-2022	541006
F2-naphthalene	----	<100	100	µg/L	EC600SG	-	29-Jun-2022	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG	28-Jun-2022	29-Jun-2022	541006
F3-PAH	n/a	<250	250	µg/L	EC600SG	-	29-Jun-2022	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG	28-Jun-2022	29-Jun-2022	541006
F1-BTEX	----	<25	25	µg/L	EC580	-	23-Jun-2022	-
hydrocarbons, total (C6-C50)	----	<240	370	µg/L	EC581SG	-	23-Jun-2022	-
chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG	28-Jun-2022	29-Jun-2022	541006
Hydrocarbons Surrogates								
bromobenzotrifluoride, 2- (F2-F4 surr)	392-83-6	89.4	1.0	%	E601.SG	28-Jun-2022	29-Jun-2022	541006
dichlorotoluene, 3,4-	97-75-0	95.0	1.0	%	E581.F1-L	22-Jun-2022	22-Jun-2022	534784
Polycyclic Aromatic Hydrocarbons								
acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008
acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008
anthracene	120-12-7	<0.010	0.010	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008
benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008

Analytical Results

WT2205959-001

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: GW-12581540-220617-SB-MW1

Client sampling date / time: 17-Jun-2022 11:55

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons								
benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008
benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008
benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008
benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008
chrysene	218-01-9	<0.010	0.010	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008
dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008
fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008
fluorene	86-73-7	<0.010	0.010	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008
indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008
methylnaphthalene, 1-	90-12-0	0.020	0.010	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008
methylnaphthalene, 1+2-	----	0.020	0.015	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008
methylnaphthalene, 2-	91-57-6	<0.010	0.010	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008
naphthalene	91-20-3	<0.050	0.050	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008
phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008
pyrene	129-00-0	<0.010	0.010	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008
Polycyclic Aromatic Hydrocarbons Surrogates								
chrysene-d12	1719-03-5	91.6	0.1	%	E641A	28-Jun-2022	29-Jun-2022	541008
naphthalene-d8	1146-65-2	90.6	0.1	%	E641A	28-Jun-2022	29-Jun-2022	541008
phenanthrene-d10	1517-22-2	97.2	0.1	%	E641A	28-Jun-2022	29-Jun-2022	541008
Polychlorinated Biphenyls								
Aroclor 1016	12674-11-2	<0.020	0.020	µg/L	E687	23-Jun-2022	27-Jun-2022	535027
Aroclor 1221	11104-28-2	<0.020	0.020	µg/L	E687	23-Jun-2022	27-Jun-2022	535027
Aroclor 1232	11141-16-5	<0.020	0.020	µg/L	E687	23-Jun-2022	27-Jun-2022	535027
Aroclor 1242	53469-21-9	<0.020	0.020	µg/L	E687	23-Jun-2022	27-Jun-2022	535027
Aroclor 1248	12672-29-6	<0.020	0.020	µg/L	E687	23-Jun-2022	27-Jun-2022	535027
Aroclor 1254	11097-69-1	<0.020	0.020	µg/L	E687	23-Jun-2022	27-Jun-2022	535027
Aroclor 1260	11096-82-5	<0.020	0.020	µg/L	E687	23-Jun-2022	27-Jun-2022	535027
Aroclor 1262	37324-23-5	<0.020	0.020	µg/L	E687	23-Jun-2022	27-Jun-2022	535027
Aroclor 1268	11100-14-4	<0.020	0.020	µg/L	E687	23-Jun-2022	27-Jun-2022	535027
polychlorinated biphenyls [PCBs], total	----	<0.060	0.060	µg/L	E687	23-Jun-2022	27-Jun-2022	535027
Polychlorinated Biphenyls Surrogates								
decachlorobiphenyl	2051-24-3	90.1	0.1	%	E687	23-Jun-2022	27-Jun-2022	535027
tetrachloro-m-xylene	877-09-8	97.3	0.1	%	E687	23-Jun-2022	27-Jun-2022	535027

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

WT2205959-002

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: GW-12581540-220617-SB-MW2

Client sampling date / time: 17-Jun-2022 14:55

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Physical Tests								
conductivity	----	3.60	0.0010	mS/cm	E100	22-Jun-2022	24-Jun-2022	533318
pH	----	7.20	0.10	pH units	E108	22-Jun-2022	22-Jun-2022	533317
Anions and Nutrients								
chloride	16887-00-6	784 DLDS	2.50	mg/L	E235.Cl	22-Jun-2022	22-Jun-2022	533311

Analytical Results

WT2205959-002

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: GW-12581540-220617-SB-MW2
Client sampling date / time: 17-Jun-2022 14:55

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Cyanides								
cyanide, weak acid dissociable	----	<2.0	2.0	µg/L	E336	24-Jun-2022	24-Jun-2022	537265
Dissolved Metals								
antimony, dissolved	7440-36-0	<0.10 DLHC,	1.00	µg/L	E421	22-Jun-2022	22-Jun-2022	533756
arsenic, dissolved	7440-38-2	<0.10 DLHC,	1.00	µg/L	E421	22-Jun-2022	22-Jun-2022	533756
barium, dissolved	7440-39-3	43.8 DLHC,	1.00	µg/L	E421	22-Jun-2022	22-Jun-2022	533756
beryllium, dissolved	7440-41-7	<0.020 DLHC,	0.200	µg/L	E421	22-Jun-2022	22-Jun-2022	533756
boron, dissolved	7440-42-8	126 DLHC,	100	µg/L	E421	22-Jun-2022	22-Jun-2022	533756
cadmium, dissolved	7440-43-9	<0.0050 DLHC,	0.0500	µg/L	E421	22-Jun-2022	22-Jun-2022	533756
chromium, dissolved	7440-47-3	<0.50 DLHC,	5.00	µg/L	E421	22-Jun-2022	22-Jun-2022	533756
cobalt, dissolved	7440-48-4	<0.10 DLHC,	1.00	µg/L	E421	22-Jun-2022	22-Jun-2022	533756
copper, dissolved	7440-50-8	2.51 DLHC,	2.00	µg/L	E421	22-Jun-2022	22-Jun-2022	533756
lead, dissolved	7439-92-1	<0.050 DLHC,	0.500	µg/L	E421	22-Jun-2022	22-Jun-2022	533756
mercury, dissolved	7439-97-6	<0.0050	0.0050	µg/L	E509	22-Jun-2022	22-Jun-2022	533342
molybdenum, dissolved	7439-98-7	<0.050 DLHC,	0.500	µg/L	E421	22-Jun-2022	22-Jun-2022	533756
nickel, dissolved	7440-02-0	<0.50 DLHC,	5.00	µg/L	E421	22-Jun-2022	22-Jun-2022	533756
selenium, dissolved	7782-49-2	<0.050 DLHC,	0.500	µg/L	E421	22-Jun-2022	22-Jun-2022	533756
silver, dissolved	7440-22-4	<0.010 DLHC,	0.100	µg/L	E421	22-Jun-2022	22-Jun-2022	533756
sodium, dissolved	7440-23-5	399000 DLHC,	500	µg/L	E421	22-Jun-2022	22-Jun-2022	533756
thallium, dissolved	7440-28-0	<0.010 DLHC,	0.100	µg/L	E421	22-Jun-2022	22-Jun-2022	533756
uranium, dissolved	7440-61-1	0.199 DLHC,	0.100	µg/L	E421	22-Jun-2022	22-Jun-2022	533756
vanadium, dissolved	7440-62-2	<0.50 DLHC,	5.00	µg/L	E421	22-Jun-2022	22-Jun-2022	533756
zinc, dissolved	7440-66-6	<1.0 DLHC,	10.0	µg/L	E421	22-Jun-2022	22-Jun-2022	533756
dissolved mercury filtration location	----	Field	-	-	EP509	-	22-Jun-2022	533342
dissolved metals filtration location	----	Field	-	-	EP421	-	22-Jun-2022	533756
Speciated Metals								
chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.50	0.50	µg/L	E532A	-	22-Jun-2022	533642
Volatile Organic Compounds								
acetone	67-64-1	<20	20	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
benzene	71-43-2	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
bromoform	75-25-2	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
bromomethane	74-83-9	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
chloroform	67-66-3	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783

Analytical Results

WT2205959-002

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: GW-12581540-220617-SB-MW2
Client sampling date / time: 17-Jun-2022 14:55

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
styrene	100-42-5	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
toluene	108-88-3	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
BTEX, total	----	<1.0	1.0	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
Volatile Organic Compounds Surrogates								
bromofluorobenzene, 4-	460-00-4	103	1.0	%	E611D	22-Jun-2022	22-Jun-2022	534783
difluorobenzene, 1,4-	540-36-3	97.5	1.0	%	E611D	22-Jun-2022	22-Jun-2022	534783
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L	22-Jun-2022	22-Jun-2022	534784
F2 (C10-C16)	----	<100	100	µg/L	E601.SG	28-Jun-2022	29-Jun-2022	541006
F2-naphthalene	----	<100	100	µg/L	EC600SG	-	29-Jun-2022	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG	28-Jun-2022	29-Jun-2022	541006
F3-PAH	n/a	<250	250	µg/L	EC600SG	-	29-Jun-2022	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG	28-Jun-2022	29-Jun-2022	541006
F1-BTEX	----	<25	25	µg/L	EC580	-	23-Jun-2022	-
hydrocarbons, total (C6-C50)	----	<240	370	µg/L	EC581SG	-	23-Jun-2022	-
chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG	28-Jun-2022	29-Jun-2022	541006
Hydrocarbons Surrogates								
bromobenzotrifluoride, 2- (F2-F4 surr)	392-83-6	85.2	1.0	%	E601.SG	28-Jun-2022	29-Jun-2022	541006
dichlorotoluene, 3,4-	97-75-0	92.4	1.0	%	E581.F1-L	22-Jun-2022	22-Jun-2022	534784
Polycyclic Aromatic Hydrocarbons								
acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008
acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008
anthracene	120-12-7	<0.010	0.010	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008
benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008
benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008
benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008
benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008
benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008
chrysene	218-01-9	<0.010	0.010	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008

Analytical Results

WT2205959-002

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: GW-12581540-220617-SB-MW2

Client sampling date / time: 17-Jun-2022 14:55

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons								
dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008
fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008
fluorene	86-73-7	<0.010	0.010	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008
indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008
methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008
methylnaphthalene, 1+2-	----	<0.015	0.015	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008
methylnaphthalene, 2-	91-57-6	<0.010	0.010	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008
naphthalene	91-20-3	<0.050	0.050	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008
phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008
pyrene	129-00-0	<0.010	0.010	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008
Polycyclic Aromatic Hydrocarbons Surrogates								
chrysene-d12	1719-03-5	95.0	0.1	%	E641A	28-Jun-2022	29-Jun-2022	541008
naphthalene-d8	1146-65-2	90.2	0.1	%	E641A	28-Jun-2022	29-Jun-2022	541008
phenanthrene-d10	1517-22-2	97.6	0.1	%	E641A	28-Jun-2022	29-Jun-2022	541008
Polychlorinated Biphenyls								
Aroclor 1016	12674-11-2	<0.020	0.020	µg/L	E687	23-Jun-2022	27-Jun-2022	535027
Aroclor 1221	11104-28-2	<0.020	0.020	µg/L	E687	23-Jun-2022	27-Jun-2022	535027
Aroclor 1232	11141-16-5	<0.020	0.020	µg/L	E687	23-Jun-2022	27-Jun-2022	535027
Aroclor 1242	53469-21-9	<0.020	0.020	µg/L	E687	23-Jun-2022	27-Jun-2022	535027
Aroclor 1248	12672-29-6	<0.020	0.020	µg/L	E687	23-Jun-2022	27-Jun-2022	535027
Aroclor 1254	11097-69-1	<0.020	0.020	µg/L	E687	23-Jun-2022	27-Jun-2022	535027
Aroclor 1260	11096-82-5	<0.020	0.020	µg/L	E687	23-Jun-2022	27-Jun-2022	535027
Aroclor 1262	37324-23-5	<0.020	0.020	µg/L	E687	23-Jun-2022	27-Jun-2022	535027
Aroclor 1268	11100-14-4	<0.020	0.020	µg/L	E687	23-Jun-2022	27-Jun-2022	535027
polychlorinated biphenyls [PCBs], total	----	<0.060	0.060	µg/L	E687	23-Jun-2022	27-Jun-2022	535027
Polychlorinated Biphenyls Surrogates								
decachlorobiphenyl	2051-24-3	109	0.1	%	E687	23-Jun-2022	27-Jun-2022	535027
tetrachloro-m-xylene	877-09-8	94.7	0.1	%	E687	23-Jun-2022	27-Jun-2022	535027

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

WT2205959-003

Sub-Matrix: **Water** (Matrix: **Water**)

Client sample ID: GW-12581540-220617-SB-MW3

Client sampling date / time: 17-Jun-2022 13:30

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Physical Tests								
conductivity	----	1.43	0.0010	mS/cm	E100	22-Jun-2022	24-Jun-2022	533318
pH	----	8.60	0.10	pH units	E108	22-Jun-2022	22-Jun-2022	533317
Anions and Nutrients								
chloride	16887-00-6	252 DLDS,	2.50	mg/L	E235.Cl	22-Jun-2022	22-Jun-2022	533311
Cyanides								
cyanide, weak acid dissociable	----	<2.0	2.0	µg/L	E336	24-Jun-2022	24-Jun-2022	537265
Dissolved Metals								
antimony, dissolved	7440-36-0	1.14 DLHC,	1.00	µg/L	E421	22-Jun-2022	22-Jun-2022	533756
arsenic, dissolved	7440-38-2	271 DLHC,	1.00	µg/L	E421	22-Jun-2022	22-Jun-2022	533756

Analytical Results

WT2205959-003

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: GW-12581540-220617-SB-MW3
Client sampling date / time: 17-Jun-2022 13:30

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Dissolved Metals								
barium, dissolved	7440-39-3	29.3 DLHC,	1.00	µg/L	E421	22-Jun-2022	22-Jun-2022	533756
beryllium, dissolved	7440-41-7	<0.020 DLHC,	0.200	µg/L	E421	22-Jun-2022	22-Jun-2022	533756
boron, dissolved	7440-42-8	330 DLHC,	100	µg/L	E421	22-Jun-2022	22-Jun-2022	533756
cadmium, dissolved	7440-43-9	<0.0050 DLHC,	0.0500	µg/L	E421	22-Jun-2022	22-Jun-2022	533756
chromium, dissolved	7440-47-3	<0.50 DLHC,	5.00	µg/L	E421	22-Jun-2022	22-Jun-2022	533756
cobalt, dissolved	7440-48-4	<0.10 DLHC,	1.00	µg/L	E421	22-Jun-2022	22-Jun-2022	533756
copper, dissolved	7440-50-8	<0.20 DLHC,	2.00	µg/L	E421	22-Jun-2022	22-Jun-2022	533756
lead, dissolved	7439-92-1	<0.050 DLHC,	0.500	µg/L	E421	22-Jun-2022	22-Jun-2022	533756
mercury, dissolved	7439-97-6	<0.0050	0.0050	µg/L	E509	22-Jun-2022	22-Jun-2022	533342
molybdenum, dissolved	7439-98-7	48.1 DLHC,	0.500	µg/L	E421	22-Jun-2022	22-Jun-2022	533756
nickel, dissolved	7440-02-0	7.91 DLHC,	5.00	µg/L	E421	22-Jun-2022	22-Jun-2022	533756
selenium, dissolved	7782-49-2	0.522 DLHC,	0.500	µg/L	E421	22-Jun-2022	22-Jun-2022	533756
silver, dissolved	7440-22-4	<0.010 DLHC,	0.100	µg/L	E421	22-Jun-2022	22-Jun-2022	533756
sodium, dissolved	7440-23-5	242000 DLHC,	500	µg/L	E421	22-Jun-2022	22-Jun-2022	533756
thallium, dissolved	7440-28-0	<0.010 DLHC,	0.100	µg/L	E421	22-Jun-2022	22-Jun-2022	533756
uranium, dissolved	7440-61-1	1.48 DLHC,	0.100	µg/L	E421	22-Jun-2022	22-Jun-2022	533756
vanadium, dissolved	7440-62-2	25.7 DLHC,	5.00	µg/L	E421	22-Jun-2022	22-Jun-2022	533756
zinc, dissolved	7440-66-6	<1.0 DLHC,	10.0	µg/L	E421	22-Jun-2022	22-Jun-2022	533756
dissolved mercury filtration location	----	Field	-	-	EP509	-	22-Jun-2022	533342
dissolved metals filtration location	----	Field	-	-	EP421	-	22-Jun-2022	533756
Speciated Metals								
chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.50	0.50	µg/L	E532A	-	22-Jun-2022	533642
Volatile Organic Compounds								
acetone	67-64-1	<20 OWP,	20	µg/L	E611D	22-Jun-2022	23-Jun-2022	534783
benzene	71-43-2	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
bromoform	75-25-2	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
bromomethane	74-83-9	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
chloroform	67-66-3	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
ethylbenzene	100-41-4	0.69	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783

Analytical Results

WT2205959-003

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: GW-12581540-220617-SB-MW3
Client sampling date / time: 17-Jun-2022 13:30

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
styrene	100-42-5	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
toluene	108-88-3	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
xylene, o-	95-47-6	0.80	0.30	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
xylenes, total	1330-20-7	0.80	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
BTEX, total	----	1.5	1.0	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
Volatile Organic Compounds Surrogates								
bromofluorobenzene, 4-	460-00-4	106	1.0	%	E611D	22-Jun-2022	22-Jun-2022	534783
difluorobenzene, 1,4-	540-36-3	97.1	1.0	%	E611D	22-Jun-2022	22-Jun-2022	534783
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L	22-Jun-2022	22-Jun-2022	534784
F2 (C10-C16)	----	<100	100	µg/L	E601.SG	28-Jun-2022	29-Jun-2022	541006
F2-naphthalene	----	<100	100	µg/L	EC600SG	-	29-Jun-2022	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG	28-Jun-2022	29-Jun-2022	541006
F3-PAH	n/a	<250	250	µg/L	EC600SG	-	29-Jun-2022	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG	28-Jun-2022	29-Jun-2022	541006
F1-BTEX	----	<25	25	µg/L	EC580	-	24-Jun-2022	-
hydrocarbons, total (C6-C50)	----	<240	370	µg/L	EC581SG	-	23-Jun-2022	-
chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG	28-Jun-2022	29-Jun-2022	541006
Hydrocarbons Surrogates								
bromobenzotrifluoride, 2- (F2-F4 surr)	392-83-6	89.4	1.0	%	E601.SG	28-Jun-2022	29-Jun-2022	541006
dichlorotoluene, 3,4-	97-75-0	116	1.0	%	E581.F1-L	22-Jun-2022	22-Jun-2022	534784
Polycyclic Aromatic Hydrocarbons								
acenaphthene	83-32-9	0.129	0.010	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008
acenaphthylene	208-96-8	<0.010 DLM,	0.011	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008
anthracene	120-12-7	<0.010 DLM,	0.019	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008
benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008
benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008
benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008
benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008
benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008
chrysene	218-01-9	<0.010	0.010	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008
dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008
fluoranthene	206-44-0	0.012	0.010	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008
fluorene	86-73-7	0.058	0.010	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008
indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008

Analytical Results

WT2205959-003

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: GW-12581540-220617-SB-MW3

Client sampling date / time: 17-Jun-2022 13:30

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons								
methylnaphthalene, 1-	90-12-0	0.829	0.010	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008
methylnaphthalene, 1+2-	----	1.02	0.015	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008
methylnaphthalene, 2-	91-57-6	0.191	0.010	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008
naphthalene	91-20-3	0.208	0.050	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008
phenanthrene	85-01-8	<0.020 DLM,	0.144	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008
pyrene	129-00-0	<0.010 DLM,	0.019	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008
Polycyclic Aromatic Hydrocarbons Surrogates								
chrysene-d12	1719-03-5	103	0.1	%	E641A	28-Jun-2022	29-Jun-2022	541008
naphthalene-d8	1146-65-2	89.3	0.1	%	E641A	28-Jun-2022	29-Jun-2022	541008
phenanthrene-d10	1517-22-2	97.2	0.1	%	E641A	28-Jun-2022	29-Jun-2022	541008
Polychlorinated Biphenyls								
Aroclor 1016	12674-11-2	<0.020	0.020	µg/L	E687	23-Jun-2022	27-Jun-2022	535027
Aroclor 1221	11104-28-2	<0.020	0.020	µg/L	E687	23-Jun-2022	27-Jun-2022	535027
Aroclor 1232	11141-16-5	<0.020	0.020	µg/L	E687	23-Jun-2022	27-Jun-2022	535027
Aroclor 1242	53469-21-9	<0.020	0.020	µg/L	E687	23-Jun-2022	27-Jun-2022	535027
Aroclor 1248	12672-29-6	<0.020	0.020	µg/L	E687	23-Jun-2022	27-Jun-2022	535027
Aroclor 1254	11097-69-1	<0.020	0.020	µg/L	E687	23-Jun-2022	27-Jun-2022	535027
Aroclor 1260	11096-82-5	<0.020	0.020	µg/L	E687	23-Jun-2022	27-Jun-2022	535027
Aroclor 1262	37324-23-5	<0.020	0.020	µg/L	E687	23-Jun-2022	27-Jun-2022	535027
Aroclor 1268	11100-14-4	<0.020	0.020	µg/L	E687	23-Jun-2022	27-Jun-2022	535027
polychlorinated biphenyls [PCBs], total	----	<0.060	0.060	µg/L	E687	23-Jun-2022	27-Jun-2022	535027
Polychlorinated Biphenyls Surrogates								
decachlorobiphenyl	2051-24-3	57.1	0.1	%	E687	23-Jun-2022	27-Jun-2022	535027
tetrachloro-m-xylene	877-09-8	97.4	0.1	%	E687	23-Jun-2022	27-Jun-2022	535027

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

WT2205959-004

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: GW-12581540-220617-SB-MW3-DUP

Client sampling date / time: 17-Jun-2022 13:30

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Physical Tests								
conductivity	----	1.43	0.0010	mS/cm	E100	22-Jun-2022	24-Jun-2022	533318
pH	----	8.59	0.10	pH units	E108	22-Jun-2022	22-Jun-2022	533317
Anions and Nutrients								
chloride	16887-00-6	231 DLDS,	2.50	mg/L	E235.Cl	22-Jun-2022	22-Jun-2022	533311
Cyanides								
cyanide, weak acid dissociable	----	<2.0	2.0	µg/L	E336	24-Jun-2022	24-Jun-2022	537265
Dissolved Metals								
antimony, dissolved	7440-36-0	1.30 DLHC,	1.00	µg/L	E421	22-Jun-2022	22-Jun-2022	533756
arsenic, dissolved	7440-38-2	304 DLHC,	1.00	µg/L	E421	22-Jun-2022	22-Jun-2022	533756
barium, dissolved	7440-39-3	35.1 DLHC,	1.00	µg/L	E421	22-Jun-2022	22-Jun-2022	533756
beryllium, dissolved	7440-41-7	<0.020 DLHC,	0.200	µg/L	E421	22-Jun-2022	22-Jun-2022	533756
boron, dissolved	7440-42-8	373 DLHC,	100	µg/L	E421	22-Jun-2022	22-Jun-2022	533756
cadmium, dissolved	7440-43-9	<0.0050 DLHC,	0.0500	µg/L	E421	22-Jun-2022	22-Jun-2022	533756

Analytical Results

WT2205959-004

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: GW-12581540-220617-SB-MW3-DUP
Client sampling date / time: 17-Jun-2022 13:30

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Dissolved Metals								
chromium, dissolved	7440-47-3	<0.50 DLHC,	5.00	µg/L	E421	22-Jun-2022	22-Jun-2022	533756
cobalt, dissolved	7440-48-4	<0.10 DLHC,	1.00	µg/L	E421	22-Jun-2022	22-Jun-2022	533756
copper, dissolved	7440-50-8	<0.20 DLHC,	2.00	µg/L	E421	22-Jun-2022	22-Jun-2022	533756
lead, dissolved	7439-92-1	<0.050 DLHC,	0.500	µg/L	E421	22-Jun-2022	22-Jun-2022	533756
mercury, dissolved	7439-97-6	<0.0050	0.0050	µg/L	E509	22-Jun-2022	22-Jun-2022	533342
molybdenum, dissolved	7439-98-7	53.2 DLHC,	0.500	µg/L	E421	22-Jun-2022	22-Jun-2022	533756
nickel, dissolved	7440-02-0	8.73 DLHC,	5.00	µg/L	E421	22-Jun-2022	22-Jun-2022	533756
selenium, dissolved	7782-49-2	0.548 DLHC,	0.500	µg/L	E421	22-Jun-2022	22-Jun-2022	533756
silver, dissolved	7440-22-4	<0.010 DLHC,	0.100	µg/L	E421	22-Jun-2022	22-Jun-2022	533756
sodium, dissolved	7440-23-5	273000 DLHC,	500	µg/L	E421	22-Jun-2022	22-Jun-2022	533756
thallium, dissolved	7440-28-0	<0.010 DLHC,	0.100	µg/L	E421	22-Jun-2022	22-Jun-2022	533756
uranium, dissolved	7440-61-1	1.71 DLHC,	0.100	µg/L	E421	22-Jun-2022	22-Jun-2022	533756
vanadium, dissolved	7440-62-2	29.1 DLHC,	5.00	µg/L	E421	22-Jun-2022	22-Jun-2022	533756
zinc, dissolved	7440-66-6	<1.0 DLHC,	10.0	µg/L	E421	22-Jun-2022	22-Jun-2022	533756
dissolved mercury filtration location	----	Field	-	-	EP509	-	22-Jun-2022	533342
dissolved metals filtration location	----	Field	-	-	EP421	-	22-Jun-2022	533756
Speciated Metals								
chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.50	0.50	µg/L	E532A	-	22-Jun-2022	533642
Volatile Organic Compounds								
acetone	67-64-1	<20	20	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
benzene	71-43-2	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
bromoform	75-25-2	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
bromomethane	74-83-9	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
chloroform	67-66-3	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
ethylbenzene	100-41-4	0.79	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783

Analytical Results

WT2205959-004

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: GW-12581540-220617-SB-MW3-DUP
Client sampling date / time: 17-Jun-2022 13:30

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
styrene	100-42-5	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
toluene	108-88-3	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
xylene, o-	95-47-6	0.89	0.30	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
xylenes, total	1330-20-7	0.89	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
BTEX, total	----	1.7	1.0	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
Volatile Organic Compounds Surrogates								
bromofluorobenzene, 4-	460-00-4	102	1.0	%	E611D	22-Jun-2022	22-Jun-2022	534783
difluorobenzene, 1,4-	540-36-3	96.2	1.0	%	E611D	22-Jun-2022	22-Jun-2022	534783
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L	22-Jun-2022	22-Jun-2022	534784
F2 (C10-C16)	----	<100	100	µg/L	E601.SG	28-Jun-2022	29-Jun-2022	541006
F2-naphthalene	----	<100	100	µg/L	EC600SG	-	29-Jun-2022	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG	28-Jun-2022	29-Jun-2022	541006
F3-PAH	n/a	<250	250	µg/L	EC600SG	-	29-Jun-2022	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG	28-Jun-2022	29-Jun-2022	541006
F1-BTEX	----	<25	25	µg/L	EC580	-	23-Jun-2022	-
hydrocarbons, total (C6-C50)	----	<240	370	µg/L	EC581SG	-	23-Jun-2022	-
chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG	28-Jun-2022	29-Jun-2022	541006
Hydrocarbons Surrogates								
bromobenzotrifluoride, 2- (F2-F4 surr)	392-83-6	91.8	1.0	%	E601.SG	28-Jun-2022	29-Jun-2022	541006
dichlorotoluene, 3,4-	97-75-0	100	1.0	%	E581.F1-L	22-Jun-2022	22-Jun-2022	534784
Polycyclic Aromatic Hydrocarbons								
acenaphthene	83-32-9	0.132	0.010	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008
acenaphthylene	208-96-8	<0.010 DLM,	0.014	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008
anthracene	120-12-7	<0.010 DLM,	0.010	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008
benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008
benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008
benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008
benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008
benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008
chrysene	218-01-9	<0.010	0.010	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008
dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008
fluoranthene	206-44-0	0.011	0.010	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008
fluorene	86-73-7	0.060	0.010	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008
indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008
methylnaphthalene, 1-	90-12-0	0.851	0.010	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008
methylnaphthalene, 1+2-	----	1.05	0.015	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008
methylnaphthalene, 2-	91-57-6	0.200	0.010	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008
naphthalene	91-20-3	0.218	0.050	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008

Analytical Results

WT2205959-004

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: GW-12581540-220617-SB-MW3-DUP

Client sampling date / time: 17-Jun-2022 13:30

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons								
phenanthrene	85-01-8	<0.020 DLM,	0.116	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008
pyrene	129-00-0	<0.010 DLM,	0.015	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008
Polycyclic Aromatic Hydrocarbons Surrogates								
chrysene-d12	1719-03-5	105	0.1	%	E641A	28-Jun-2022	29-Jun-2022	541008
naphthalene-d8	1146-65-2	92.1	0.1	%	E641A	28-Jun-2022	29-Jun-2022	541008
phenanthrene-d10	1517-22-2	101	0.1	%	E641A	28-Jun-2022	29-Jun-2022	541008
Polychlorinated Biphenyls								
Aroclor 1016	12674-11-2	<0.020	0.020	µg/L	E687	23-Jun-2022	27-Jun-2022	535027
Aroclor 1221	11104-28-2	<0.020	0.020	µg/L	E687	23-Jun-2022	27-Jun-2022	535027
Aroclor 1232	11141-16-5	<0.020	0.020	µg/L	E687	23-Jun-2022	27-Jun-2022	535027
Aroclor 1242	53469-21-9	<0.020	0.020	µg/L	E687	23-Jun-2022	27-Jun-2022	535027
Aroclor 1248	12672-29-6	<0.020	0.020	µg/L	E687	23-Jun-2022	27-Jun-2022	535027
Aroclor 1254	11097-69-1	<0.020	0.020	µg/L	E687	23-Jun-2022	27-Jun-2022	535027
Aroclor 1260	11096-82-5	<0.020	0.020	µg/L	E687	23-Jun-2022	27-Jun-2022	535027
Aroclor 1262	37324-23-5	<0.020	0.020	µg/L	E687	23-Jun-2022	27-Jun-2022	535027
Aroclor 1268	11100-14-4	<0.020	0.020	µg/L	E687	23-Jun-2022	27-Jun-2022	535027
polychlorinated biphenyls [PCBs], total	----	<0.060	0.060	µg/L	E687	23-Jun-2022	27-Jun-2022	535027
Polychlorinated Biphenyls Surrogates								
decachlorobiphenyl	2051-24-3	53.3	0.1	%	E687	23-Jun-2022	27-Jun-2022	535027
tetrachloro-m-xylene	877-09-8	105	0.1	%	E687	23-Jun-2022	27-Jun-2022	535027

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

WT2205959-005

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: GW-12581540-220617-SB-MW4

Client sampling date / time: 17-Jun-2022 16:35

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Physical Tests								
conductivity	----	1.17	0.0010	mS/cm	E100	22-Jun-2022	24-Jun-2022	533318
pH	----	7.68	0.10	pH units	E108	22-Jun-2022	22-Jun-2022	533317
Anions and Nutrients								
chloride	16887-00-6	112	0.50	mg/L	E235.Cl	22-Jun-2022	22-Jun-2022	533311
Cyanides								
cyanide, weak acid dissociable	----	<2.0	2.0	µg/L	E336	24-Jun-2022	24-Jun-2022	537265
Dissolved Metals								
antimony, dissolved	7440-36-0	1.31	0.10	µg/L	E421	22-Jun-2022	22-Jun-2022	533756
arsenic, dissolved	7440-38-2	1.73	0.10	µg/L	E421	22-Jun-2022	22-Jun-2022	533756
barium, dissolved	7440-39-3	171	0.10	µg/L	E421	22-Jun-2022	22-Jun-2022	533756
beryllium, dissolved	7440-41-7	<0.020	0.020	µg/L	E421	22-Jun-2022	22-Jun-2022	533756
boron, dissolved	7440-42-8	181	10	µg/L	E421	22-Jun-2022	22-Jun-2022	533756
cadmium, dissolved	7440-43-9	0.0170	0.0050	µg/L	E421	22-Jun-2022	22-Jun-2022	533756
chromium, dissolved	7440-47-3	<0.50	0.50	µg/L	E421	22-Jun-2022	22-Jun-2022	533756
cobalt, dissolved	7440-48-4	0.46	0.10	µg/L	E421	22-Jun-2022	22-Jun-2022	533756
copper, dissolved	7440-50-8	1.03	0.20	µg/L	E421	22-Jun-2022	22-Jun-2022	533756
lead, dissolved	7439-92-1	<0.050	0.050	µg/L	E421	22-Jun-2022	22-Jun-2022	533756

Analytical Results

WT2205959-005

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: GW-12581540-220617-SB-MW4
Client sampling date / time: 17-Jun-2022 16:35

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Dissolved Metals								
mercury, dissolved	7439-97-6	<0.0050	0.0050	µg/L	E509	22-Jun-2022	22-Jun-2022	533342
molybdenum, dissolved	7439-98-7	3.08	0.050	µg/L	E421	22-Jun-2022	22-Jun-2022	533756
nickel, dissolved	7440-02-0	1.26	0.50	µg/L	E421	22-Jun-2022	22-Jun-2022	533756
selenium, dissolved	7782-49-2	0.473	0.050	µg/L	E421	22-Jun-2022	22-Jun-2022	533756
silver, dissolved	7440-22-4	<0.010	0.010	µg/L	E421	22-Jun-2022	22-Jun-2022	533756
sodium, dissolved	7440-23-5	147000 DLHC,	500	µg/L	E421	22-Jun-2022	22-Jun-2022	533756
thallium, dissolved	7440-28-0	0.010	0.010	µg/L	E421	22-Jun-2022	22-Jun-2022	533756
uranium, dissolved	7440-61-1	2.95	0.010	µg/L	E421	22-Jun-2022	22-Jun-2022	533756
vanadium, dissolved	7440-62-2	0.64	0.50	µg/L	E421	22-Jun-2022	22-Jun-2022	533756
zinc, dissolved	7440-66-6	1.3	1.0	µg/L	E421	22-Jun-2022	22-Jun-2022	533756
dissolved mercury filtration location	----	Field	-	-	EP509	-	22-Jun-2022	533342
dissolved metals filtration location	----	Field	-	-	EP421	-	22-Jun-2022	533756
Speciated Metals								
chromium, hexavalent [Cr VI], dissolved	18540-29-9	<0.50	0.50	µg/L	E532A	-	22-Jun-2022	533642
Volatile Organic Compounds								
acetone	67-64-1	<20	20	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
benzene	71-43-2	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
bromoform	75-25-2	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
bromomethane	74-83-9	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
chloroform	67-66-3	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
styrene	100-42-5	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783

Analytical Results

WT2205959-005

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: GW-12581540-220617-SB-MW4
Client sampling date / time: 17-Jun-2022 16:35

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
toluene	108-88-3	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
BTEX, total	----	<1.0	1.0	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
Volatile Organic Compounds Surrogates								
bromofluorobenzene, 4-	460-00-4	102	1.0	%	E611D	22-Jun-2022	22-Jun-2022	534783
difluorobenzene, 1,4-	540-36-3	97.5	1.0	%	E611D	22-Jun-2022	22-Jun-2022	534783
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L	22-Jun-2022	22-Jun-2022	534784
F2 (C10-C16)	----	<100	100	µg/L	E601.SG	28-Jun-2022	29-Jun-2022	541006
F2-naphthalene	----	<100	100	µg/L	EC600SG	-	29-Jun-2022	-
F3 (C16-C34)	----	<250	250	µg/L	E601.SG	28-Jun-2022	29-Jun-2022	541006
F3-PAH	n/a	<250	250	µg/L	EC600SG	-	29-Jun-2022	-
F4 (C34-C50)	----	<250	250	µg/L	E601.SG	28-Jun-2022	29-Jun-2022	541006
F1-BTEX	----	<25	25	µg/L	EC580	-	23-Jun-2022	-
hydrocarbons, total (C6-C50)	----	<240	370	µg/L	EC581SG	-	23-Jun-2022	-
chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG	28-Jun-2022	29-Jun-2022	541006
Hydrocarbons Surrogates								
bromobenzotrifluoride, 2- (F2-F4 surr)	392-83-6	91.5	1.0	%	E601.SG	28-Jun-2022	29-Jun-2022	541006
dichlorotoluene, 3,4-	97-75-0	91.2	1.0	%	E581.F1-L	22-Jun-2022	22-Jun-2022	534784
Polycyclic Aromatic Hydrocarbons								
acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008
acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008
anthracene	120-12-7	<0.010	0.010	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008
benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008
benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008
benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008
benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008
benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008
chrysene	218-01-9	<0.010	0.010	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008
dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008
fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008
fluorene	86-73-7	<0.010	0.010	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008
indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008
methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008
methylnaphthalene, 1+2-	----	<0.015	0.015	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008
methylnaphthalene, 2-	91-57-6	<0.010	0.010	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008
naphthalene	91-20-3	<0.050	0.050	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008
phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008
pyrene	129-00-0	<0.010	0.010	µg/L	E641A	28-Jun-2022	29-Jun-2022	541008
Polycyclic Aromatic Hydrocarbons Surrogates								
chrysene-d12	1719-03-5	101	0.1	%	E641A	28-Jun-2022	29-Jun-2022	541008

Analytical Results

WT2205959-005

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: GW-12581540-220617-SB-MW4

Client sampling date / time: 17-Jun-2022 16:35

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons Surrogates								
naphthalene-d8	1146-65-2	93.9	0.1	%	E641A	28-Jun-2022	29-Jun-2022	541008
phenanthrene-d10	1517-22-2	103	0.1	%	E641A	28-Jun-2022	29-Jun-2022	541008
Polychlorinated Biphenyls								
Aroclor 1016	12674-11-2	<0.020	0.020	µg/L	E687	23-Jun-2022	27-Jun-2022	535027
Aroclor 1221	11104-28-2	<0.020	0.020	µg/L	E687	23-Jun-2022	27-Jun-2022	535027
Aroclor 1232	11141-16-5	<0.020	0.020	µg/L	E687	23-Jun-2022	27-Jun-2022	535027
Aroclor 1242	53469-21-9	<0.020	0.020	µg/L	E687	23-Jun-2022	27-Jun-2022	535027
Aroclor 1248	12672-29-6	<0.020	0.020	µg/L	E687	23-Jun-2022	27-Jun-2022	535027
Aroclor 1254	11097-69-1	<0.020	0.020	µg/L	E687	23-Jun-2022	27-Jun-2022	535027
Aroclor 1260	11096-82-5	<0.020	0.020	µg/L	E687	23-Jun-2022	27-Jun-2022	535027
Aroclor 1262	37324-23-5	<0.020	0.020	µg/L	E687	23-Jun-2022	27-Jun-2022	535027
Aroclor 1268	11100-14-4	<0.020	0.020	µg/L	E687	23-Jun-2022	27-Jun-2022	535027
polychlorinated biphenyls [PCBs], total	----	<0.060	0.060	µg/L	E687	23-Jun-2022	27-Jun-2022	535027
Polychlorinated Biphenyls Surrogates								
decachlorobiphenyl	2051-24-3	112	0.1	%	E687	23-Jun-2022	27-Jun-2022	535027
tetrachloro-m-xylene	877-09-8	98.3	0.1	%	E687	23-Jun-2022	27-Jun-2022	535027

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

WT2205959-006

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: TRIP BLANK

Client sampling date / time: 17-Jun-2022 00:00

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
acetone	67-64-1	<20	20	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
benzene	71-43-2	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
bromodichloromethane	75-27-4	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
bromoform	75-25-2	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
bromomethane	74-83-9	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
carbon tetrachloride	56-23-5	<0.20	0.20	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
chlorobenzene	108-90-7	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
chloroform	67-66-3	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dibromochloromethane	124-48-1	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dibromoethane, 1,2-	106-93-4	<0.20	0.20	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dichlorobenzene, 1,3-	541-73-1	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dichlorobenzene, 1,4-	106-46-7	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dichlorodifluoromethane	75-71-8	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dichloroethane, 1,1-	75-34-3	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dichloroethane, 1,2-	107-06-2	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dichloroethylene, 1,1-	75-35-4	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dichloroethylene, cis-1,2-	156-59-2	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dichloroethylene, trans-1,2-	156-60-5	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dichloromethane	75-09-2	<1.0	1.0	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dichloropropane, 1,2-	78-87-5	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783

Analytical Results

WT2205959-006

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: TRIP BLANK
Client sampling date / time: 17-Jun-2022 00:00

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
dichloropropylene, cis+trans-1,3-	542-75-6	<0.50	0.5	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dichloropropylene, cis-1,3-	10061-01-5	<0.30	0.30	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
dichloropropylene, trans-1,3-	10061-02-6	<0.30	0.30	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
hexane, n-	110-54-3	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
methyl ethyl ketone [MEK]	78-93-3	<20	20	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
methyl isobutyl ketone [MIBK]	108-10-1	<20	20	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
styrene	100-42-5	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
tetrachloroethane, 1,1,1,2-	630-20-6	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
tetrachloroethane, 1,1,2,2-	79-34-5	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
tetrachloroethylene	127-18-4	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
toluene	108-88-3	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
trichloroethane, 1,1,1-	71-55-6	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
trichloroethane, 1,1,2-	79-00-5	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
trichloroethylene	79-01-6	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
trichlorofluoromethane	75-69-4	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
vinyl chloride	75-01-4	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
xylene, o-	95-47-6	<0.30	0.30	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
BTEX, total	----	<1.0	1.0	µg/L	E611D	22-Jun-2022	22-Jun-2022	534783
Volatile Organic Compounds Surrogates								
bromofluorobenzene, 4-	460-00-4	101	1.0	%	E611D	22-Jun-2022	22-Jun-2022	534783
difluorobenzene, 1,4-	540-36-3	97.5	1.0	%	E611D	22-Jun-2022	22-Jun-2022	534783
Hydrocarbons								
F1 (C6-C10)	----	<25	25	µg/L	E581.F1-L	22-Jun-2022	22-Jun-2022	534784
F1-BTEX	----	<25	25	µg/L	EC580	-	23-Jun-2022	-
Hydrocarbons Surrogates								
dichlorotoluene, 3,4-	97-75-0	96.0	1.0	%	E581.F1-L	22-Jun-2022	22-Jun-2022	534784

Please refer to the General Comments section for an explanation of any qualifiers detected.

QUALITY CONTROL INTERPRETIVE REPORT

Work Order	: **WT2205959**	Page	: 1 of 15
Client	: **GHD Limited**	Laboratory	: Waterloo - Environmental
Contact	: Jennifer Balkwill	Account Manager	: Rick Hawthorne
Address	: 455 Phillip Street Waterloo ON Canada N2L 3X2	Address	: 60 Northland Road, Unit 1 Waterloo, Ontario Canada N2V 2B8
Telephone	: ----	Telephone	: +1 519 886 6910
Project	: 12581540	Date Samples Received	: 21-Jun-2022 11:30
PO	: 735-003274	Issue Date	: 29-Jun-2022 13:24
C-O-C number	: ----		
Sampler	: Sam Bessai		
Site	: ----		
Quote number	: 12581540 - City of Mississauga		
No. of samples received	: 6		
No. of samples analysed	: 6		

This report is automatically generated by the ALS LIMS (Laboratory Information Management System) through evaluation of Quality Control (QC) results and other QA parameters associated with this submission, and is intended to facilitate rapid data validation by auditors or reviewers. The report highlights any exceptions and outliers to ALS Data Quality Objectives, provides holding time details and exceptions, summarizes QC sample frequencies, and lists applicable methodology references and summaries.

Key

Anonymous: Refers to samples which are not part of this work order, but which formed part of the QC process lot.
CAS Number: Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
DQO: Data Quality Objective.
LOR: Limit of Reporting (detection limit).
RPD: Relative Percent Difference.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Summary of Outliers

Outliers : Quality Control Samples

- No Method Blank value outliers occur.
- No Duplicate outliers occur.
- No Laboratory Control Sample (LCS) outliers occur
- Matrix Spike outliers occur - please see following pages for full details.
- No Test sample Surrogate recovery outliers exist.

Outliers: Reference Material (RM) Samples

- No Reference Material (RM) Sample outliers occur.

Outliers : Analysis Holding Time Compliance (Breaches)

- Analysis Holding Time Outliers exist - please see following pages for full details.

Outliers : Frequency of Quality Control Samples

- No Quality Control Sample Frequency Outliers occur.

Outliers : Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: **Water**

Analyte Group	Laboratory sample ID	Client/Ref Sample ID	Analyte	CAS Number	Method	Result	Limits	Comment
Matrix Spike (MS) Recoveries								
Dissolved Metals	WT2205959-002	GW-12581540-220617-SB-MW2	silver, dissolved	7440-22-4	E421	68.9 %	70.0-130%	Recovery less than lower data quality objective
Volatile Organic Compounds	Anonymous	Anonymous	acetone	67-64-1	E611D	145 % MES	60.0-140%	Recovery greater than upper data quality objective

Result Qualifiers

Qualifier	*Description*
MES	*Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).*

Analysis Holding Time Compliance

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times, which are selected to meet known provincial and /or federal requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by organizations such as CCME, US EPA, APHA Standard Methods, ASTM, or Environment Canada (where available). Dates and holding times reported below represent the first dates of extraction or analysis. If subsequent tests or dilutions exceeded holding times, qualifiers are added (refer to COA).

If samples are identified below as having been analyzed or extracted outside of recommended holding times, measurement uncertainties may be increased, and this should be taken into consideration when interpreting results.

Where actual sampling date is not provided on the chain of custody, the date of receipt with time at 00:00 is used for calculation purposes.

Where only the sample date without time is provided on the chain of custody, the sampling date at 00:00 is used for calculation purposes.

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
GW-12581540-220617-SB-MW1	E235.Cl	17-Jun-2022	----	----	----		22-Jun-2022	28 days	5 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
GW-12581540-220617-SB-MW2	E235.Cl	17-Jun-2022	----	----	----		22-Jun-2022	28 days	5 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
GW-12581540-220617-SB-MW3	E235.Cl	17-Jun-2022	----	----	----		22-Jun-2022	28 days	5 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
GW-12581540-220617-SB-MW3-DUP	E235.Cl	17-Jun-2022	----	----	----		22-Jun-2022	28 days	5 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
GW-12581540-220617-SB-MW4	E235.Cl	17-Jun-2022	----	----	----		22-Jun-2022	28 days	5 days	✓
Cyanides : WAD Cyanide										
HDPE - total (sodium hydroxide)										
GW-12581540-220617-SB-MW1	E336	17-Jun-2022	----	----	----		24-Jun-2022	14 days	7 days	✓
Cyanides : WAD Cyanide										
HDPE - total (sodium hydroxide)										
GW-12581540-220617-SB-MW2	E336	17-Jun-2022	----	----	----		24-Jun-2022	14 days	7 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Cyanides : WAD Cyanide										
HDPE - total (sodium hydroxide)										
GW-12581540-220617-SB-MW3	E336	17-Jun-2022	----	----	----		24-Jun-2022	14 days	7 days	✓
Cyanides : WAD Cyanide										
HDPE - total (sodium hydroxide)										
GW-12581540-220617-SB-MW3-DUP	E336	17-Jun-2022	----	----	----		24-Jun-2022	14 days	7 days	✓
Cyanides : WAD Cyanide										
HDPE - total (sodium hydroxide)										
GW-12581540-220617-SB-MW4	E336	17-Jun-2022	----	----	----		24-Jun-2022	14 days	7 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid)										
GW-12581540-220617-SB-MW1	E509	17-Jun-2022	22-Jun-2022	----	----		22-Jun-2022	28 days	5 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid)										
GW-12581540-220617-SB-MW2	E509	17-Jun-2022	22-Jun-2022	----	----		22-Jun-2022	28 days	5 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid)										
GW-12581540-220617-SB-MW3	E509	17-Jun-2022	22-Jun-2022	----	----		22-Jun-2022	28 days	5 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid)										
GW-12581540-220617-SB-MW3-DUP	E509	17-Jun-2022	22-Jun-2022	----	----		22-Jun-2022	28 days	5 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid)										
GW-12581540-220617-SB-MW4	E509	17-Jun-2022	22-Jun-2022	----	----		22-Jun-2022	28 days	5 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid)										
GW-12581540-220617-SB-MW1	E421	17-Jun-2022	22-Jun-2022	----	----		22-Jun-2022	180 days	5 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid)										
GW-12581540-220617-SB-MW2	E421	17-Jun-2022	22-Jun-2022	----	----		22-Jun-2022	180 days	5 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid)										
GW-12581540-220617-SB-MW3	E421	17-Jun-2022	22-Jun-2022	----	----		22-Jun-2022	180 days	5 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid)										
GW-12581540-220617-SB-MW3-DUP	E421	17-Jun-2022	22-Jun-2022	----	----		22-Jun-2022	180 days	5 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid)										
GW-12581540-220617-SB-MW4	E421	17-Jun-2022	22-Jun-2022	----	----		22-Jun-2022	180 days	5 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate)										
GW-12581540-220617-SB-MW1	E581.F1-L	17-Jun-2022	22-Jun-2022	----	----		22-Jun-2022	14 days	5 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate)										
GW-12581540-220617-SB-MW2	E581.F1-L	17-Jun-2022	22-Jun-2022	----	----		22-Jun-2022	14 days	5 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate)										
GW-12581540-220617-SB-MW3	E581.F1-L	17-Jun-2022	22-Jun-2022	----	----		22-Jun-2022	14 days	5 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate)										
GW-12581540-220617-SB-MW3-DUP	E581.F1-L	17-Jun-2022	22-Jun-2022	----	----		22-Jun-2022	14 days	5 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate)										
GW-12581540-220617-SB-MW4	E581.F1-L	17-Jun-2022	22-Jun-2022	----	----		22-Jun-2022	14 days	5 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate)										
TRIP BLANK	E581.F1-L	17-Jun-2022	22-Jun-2022	----	----		22-Jun-2022	14 days	6 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate)										
GW-12581540-220617-SB-MW1	E601.SG	17-Jun-2022	28-Jun-2022	14 days	11 days	✓	29-Jun-2022	40 days	1 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate)										
GW-12581540-220617-SB-MW2	E601.SG	17-Jun-2022	28-Jun-2022	14 days	11 days	✓	29-Jun-2022	40 days	1 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate)										
GW-12581540-220617-SB-MW3	E601.SG	17-Jun-2022	28-Jun-2022	14 days	11 days	✓	29-Jun-2022	40 days	1 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate)										
GW-12581540-220617-SB-MW3-DUP	E601.SG	17-Jun-2022	28-Jun-2022	14 days	11 days	✓	29-Jun-2022	40 days	1 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate)										
GW-12581540-220617-SB-MW4	E601.SG	17-Jun-2022	28-Jun-2022	14 days	11 days	✓	29-Jun-2022	40 days	1 days	✓
Physical Tests : Conductivity in Water										
HDPE [ON MECP]										
GW-12581540-220617-SB-MW1	E100	17-Jun-2022	----	----	----		22-Jun-2022	28 days	5 days	✓
Physical Tests : Conductivity in Water										
HDPE [ON MECP]										
GW-12581540-220617-SB-MW2	E100	17-Jun-2022	----	----	----		22-Jun-2022	28 days	5 days	✓
Physical Tests : Conductivity in Water										
HDPE [ON MECP]										
GW-12581540-220617-SB-MW3	E100	17-Jun-2022	----	----	----		22-Jun-2022	28 days	5 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Physical Tests : Conductivity in Water										
HDPE [ON MECP]										
GW-12581540-220617-SB-MW3-DUP	E100	17-Jun-2022	----	----	----		22-Jun-2022	28 days	5 days	✓
Physical Tests : Conductivity in Water										
HDPE [ON MECP]										
GW-12581540-220617-SB-MW4	E100	17-Jun-2022	----	----	----		22-Jun-2022	28 days	5 days	✓
Physical Tests : pH by Meter										
HDPE [ON MECP]										
GW-12581540-220617-SB-MW1	E108	17-Jun-2022	----	----	----		22-Jun-2022	4 days	5 days	× EHTL
Physical Tests : pH by Meter										
HDPE [ON MECP]										
GW-12581540-220617-SB-MW2	E108	17-Jun-2022	----	----	----		22-Jun-2022	4 days	5 days	× EHTL
Physical Tests : pH by Meter										
HDPE [ON MECP]										
GW-12581540-220617-SB-MW3	E108	17-Jun-2022	----	----	----		22-Jun-2022	4 days	5 days	× EHTL
Physical Tests : pH by Meter										
HDPE [ON MECP]										
GW-12581540-220617-SB-MW3-DUP	E108	17-Jun-2022	----	----	----		22-Jun-2022	4 days	5 days	× EHTL
Physical Tests : pH by Meter										
HDPE [ON MECP]										
GW-12581540-220617-SB-MW4	E108	17-Jun-2022	----	----	----		22-Jun-2022	4 days	5 days	× EHTL
Polychlorinated Biphenyls : PCB Aroclors by GC-MS										
Amber glass/Teflon lined cap										
GW-12581540-220617-SB-MW1	E687	17-Jun-2022	23-Jun-2022	14 days	6 days	✓	27-Jun-2022	40 days	4 days	✓
Polychlorinated Biphenyls : PCB Aroclors by GC-MS										
Amber glass/Teflon lined cap										
GW-12581540-220617-SB-MW2	E687	17-Jun-2022	23-Jun-2022	14 days	6 days	✓	27-Jun-2022	40 days	4 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Polychlorinated Biphenyls : PCB Aroclors by GC-MS										
Amber glass/Teflon lined cap GW-12581540-220617-SB-MW3	E687	17-Jun-2022	23-Jun-2022	14 days	6 days	✓	27-Jun-2022	40 days	4 days	✓
Polychlorinated Biphenyls : PCB Aroclors by GC-MS										
Amber glass/Teflon lined cap GW-12581540-220617-SB-MW3-DUP	E687	17-Jun-2022	23-Jun-2022	14 days	6 days	✓	27-Jun-2022	40 days	4 days	✓
Polychlorinated Biphenyls : PCB Aroclors by GC-MS										
Amber glass/Teflon lined cap GW-12581540-220617-SB-MW4	E687	17-Jun-2022	23-Jun-2022	14 days	6 days	✓	27-Jun-2022	40 days	4 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate) GW-12581540-220617-SB-MW1	E641A	17-Jun-2022	28-Jun-2022	14 days	11 days	✓	29-Jun-2022	40 days	1 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate) GW-12581540-220617-SB-MW2	E641A	17-Jun-2022	28-Jun-2022	14 days	11 days	✓	29-Jun-2022	40 days	1 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate) GW-12581540-220617-SB-MW3	E641A	17-Jun-2022	28-Jun-2022	14 days	11 days	✓	29-Jun-2022	40 days	1 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate) GW-12581540-220617-SB-MW3-DUP	E641A	17-Jun-2022	28-Jun-2022	14 days	11 days	✓	29-Jun-2022	40 days	1 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate) GW-12581540-220617-SB-MW4	E641A	17-Jun-2022	28-Jun-2022	14 days	11 days	✓	29-Jun-2022	40 days	1 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE (sodium hydroxide+ammonium hydroxide+ammonium sulfate)) GW-12581540-220617-SB-MW1	E532A	17-Jun-2022	----	----	----		22-Jun-2022	28 days	5 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE (sodium hydroxide+ammonium hydroxide+ammonium sulfate))										
GW-12581540-220617-SB-MW2	E532A	17-Jun-2022	----	----	----		22-Jun-2022	28 days	5 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE (sodium hydroxide+ammonium hydroxide+ammonium sulfate))										
GW-12581540-220617-SB-MW3	E532A	17-Jun-2022	----	----	----		22-Jun-2022	28 days	5 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE (sodium hydroxide+ammonium hydroxide+ammonium sulfate))										
GW-12581540-220617-SB-MW3-DUP	E532A	17-Jun-2022	----	----	----		22-Jun-2022	28 days	5 days	✓
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE (sodium hydroxide+ammonium hydroxide+ammonium sulfate))										
GW-12581540-220617-SB-MW4	E532A	17-Jun-2022	----	----	----		22-Jun-2022	28 days	5 days	✓
Volatile Organic Compounds : VOCs (ON List) by Headspace GC-MS										
Glass vial (sodium bisulfate)										
GW-12581540-220617-SB-MW1	E611D	17-Jun-2022	22-Jun-2022	----	----		22-Jun-2022	14 days	5 days	✓
Volatile Organic Compounds : VOCs (ON List) by Headspace GC-MS										
Glass vial (sodium bisulfate)										
GW-12581540-220617-SB-MW2	E611D	17-Jun-2022	22-Jun-2022	----	----		22-Jun-2022	14 days	5 days	✓
Volatile Organic Compounds : VOCs (ON List) by Headspace GC-MS										
Glass vial (sodium bisulfate)										
GW-12581540-220617-SB-MW3-DUP	E611D	17-Jun-2022	22-Jun-2022	----	----		22-Jun-2022	14 days	5 days	✓
Volatile Organic Compounds : VOCs (ON List) by Headspace GC-MS										
Glass vial (sodium bisulfate)										
GW-12581540-220617-SB-MW4	E611D	17-Jun-2022	22-Jun-2022	----	----		22-Jun-2022	14 days	5 days	✓
Volatile Organic Compounds : VOCs (ON List) by Headspace GC-MS										
Glass vial (sodium bisulfate)										
GW-12581540-220617-SB-MW3	E611D	17-Jun-2022	22-Jun-2022	----	----		22-Jun-2022	14 days	6 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Volatile Organic Compounds : VOCs (ON List) by Headspace GC-MS										
Glass vial (sodium bisulfate)										
TRIP BLANK	E611D	17-Jun-2022	22-Jun-2022	----	----		22-Jun-2022	14 days	6 days	✓

Legend & Qualifier Definitions

EHTL: Exceeded ALS recommended hold time prior to analysis. Sample was received less than 24 hours prior to expiry.

Rec. HT: ALS recommended hold time (see units).

Quality Control Parameter Frequency Compliance

The following report summarizes the frequency of laboratory QC samples analyzed within the analytical batches (QC lots) in which the submitted samples were processed. The actual frequency should be greater than or equal to the expected frequency.

Matrix: **Water**

Evaluation: × = QC frequency outside specification; ✓ = QC frequency within specification.

Quality Control Sample Type			Count		Frequency (%)		
Analytical Methods	*Method*	*QC Lot #*	*QC*	*Regular*	*Actual*	*Expected*	*Evaluation*
Laboratory Duplicates (DUP)							
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L	534784	1	14	7.1	5.0	✓
Chloride in Water by IC	E235.Cl	533311	1	13	7.6	5.0	✓
Conductivity in Water	E100	533318	1	5	20.0	5.0	✓
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A	533642	1	11	9.0	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	533342	1	5	20.0	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	533756	1	8	12.5	5.0	✓
pH by Meter	E108	533317	1	20	5.0	5.0	✓
VOCs (ON List) by Headspace GC-MS	E611D	534783	1	20	5.0	5.0	✓
WAD Cyanide	E336	537265	1	20	5.0	5.0	✓
Laboratory Control Samples (LCS)							
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L	534784	1	14	7.1	5.0	✓
Chloride in Water by IC	E235.Cl	533311	1	13	7.6	5.0	✓
Conductivity in Water	E100	533318	1	5	20.0	5.0	✓
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A	533642	1	11	9.0	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	533342	1	5	20.0	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	533756	1	8	12.5	5.0	✓
PAHs by Hexane LVI GC-MS	E641A	541008	1	11	9.0	5.0	✓
PCB Aroclors by GC-MS	E687	535027	1	11	9.0	4.7	✓
pH by Meter	E108	533317	1	20	5.0	5.0	✓
Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID	E601.SG	541006	1	13	7.6	5.0	✓
VOCs (ON List) by Headspace GC-MS	E611D	534783	1	20	5.0	5.0	✓
WAD Cyanide	E336	537265	1	20	5.0	5.0	✓
Method Blanks (MB)							
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L	534784	1	14	7.1	5.0	✓
Chloride in Water by IC	E235.Cl	533311	1	13	7.6	5.0	✓
Conductivity in Water	E100	533318	1	5	20.0	5.0	✓
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A	533642	1	11	9.0	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	533342	1	5	20.0	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	533756	1	8	12.5	5.0	✓
PAHs by Hexane LVI GC-MS	E641A	541008	1	11	9.0	5.0	✓
PCB Aroclors by GC-MS	E687	535027	1	11	9.0	4.7	✓
Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID	E601.SG	541006	1	13	7.6	5.0	✓
VOCs (ON List) by Headspace GC-MS	E611D	534783	1	20	5.0	5.0	✓
WAD Cyanide	E336	537265	1	20	5.0	5.0	✓
Matrix Spikes (MS)							
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L	534784	1	14	7.1	5.0	✓
Chloride in Water by IC	E235.Cl	533311	1	13	7.6	5.0	✓

Matrix: **Water**

Evaluation: × = *QC frequency outside specification*; ✓ = *QC frequency within specification.*

Quality Control Sample Type			Count		Frequency (%)		
Analytical Methods	*Method*	*QC Lot #*	*QC*	*Regular*	*Actual*	*Expected*	*Evaluation*
Matrix Spikes (MS) - Continued							
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A	533642	1	11	9.0	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	533342	1	5	20.0	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	533756	1	8	12.5	5.0	✓
VOCs (ON List) by Headspace GC-MS	E611D	534783	1	20	5.0	5.0	✓
WAD Cyanide	E336	537265	1	20	5.0	5.0	✓

Methodology References and Summaries

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Reference methods may incorporate modifications to improve performance (indicated by "mod").

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Conductivity in Water	E100 Waterloo - Environmental	Water	APHA 2510 (mod)	Conductivity, also known as Electrical Conductivity (EC) or Specific Conductance, is measured by immersion of a conductivity cell with platinum electrodes into a water sample. Conductivity measurements are temperature-compensated to 25°C.
pH by Meter	E108 Waterloo - Environmental	Water	APHA 4500-H (mod)	pH is determined by potentiometric measurement with a pH electrode, and is conducted at ambient laboratory temperature (normally 20 ± 5°C). For high accuracy test results, pH should be measured in the field within the recommended 15 minute hold time.
Chloride in Water by IC	E235.Cl Waterloo - Environmental	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.
WAD Cyanide	E336 Waterloo - Environmental	Water	APHA 4500-CN I (mod)	Weak Acid Dissociable (WAD) cyanide is determined by Continuous Flow Analyzer (CFA) with in-line distillation followed by colourmetric analysis.
Dissolved Metals in Water by CRC ICPMS	E421 Waterloo - Environmental	Water	APHA 3030B/EPA 6020B (mod)	Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by Collision/Reaction Cell ICPMS. Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.
Dissolved Mercury in Water by CVAAS	E509 Waterloo - Environmental	Water	APHA 3030B/EPA 1631E (mod)	Water samples are filtered (0.45 um), preserved with HCl, then undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS.
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A Waterloo - Environmental	Water	APHA 3500-Cr C (Ion Chromatography)	Hexavalent Chromium is measured by Ion chromatography-Post column reaction and UV detection. sample pretreatment involved field or lab filtration following by sample preservation.
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L Waterloo - Environmental	Water	CCME PHC in Soil - Tier 1	CCME Fraction 1 (F1) is analyzed by static headspace GC-FID. Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler, causing VOCs to partition between the aqueous phase and the headspace in accordance with Henry's law.
Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID	E601.SG Waterloo - Environmental	Water	CCME PHC in Soil - Tier 1	Sample extracts are subjected to in-situ silica gel treatment prior to analysis by GC-FID for CCME hydrocarbon fractions (F2-F4).
VOCs (ON List) by Headspace GC-MS	E611D Waterloo - Environmental	Water	EPA 8260D (mod)	Volatile Organic Compounds (VOCs) are analyzed by static headspace GC-MS. Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler, causing VOCs to partition between the aqueous phase and the headspace in accordance with Henry's law.

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
PAHs by Hexane LVI GC-MS	E641A Waterloo - Environmental	Water	EPA 8270E (mod)	Polycyclic Aromatic Hydrocarbons (PAHs) are analyzed by large volume injection (LVI) GC-MS.
PCB Aroclors by GC-MS	E687 Waterloo - Environmental	Water	EPA 8270E (mod)	PCB Aroclors are analyzed by GC-MS
F1-BTEX	EC580 Waterloo - Environmental	Water	CCME PHC in Soil - Tier 1	F1-BTEX is calculated as follows: F1-BTEX = F1 (C6-C10) minus benzene, toluene, ethylbenzene and xylenes (BTEX).
SUM F1 to F4 where F2-F4 is SG treated	EC581SG Waterloo - Environmental	Water	CCME PHC in Soil - Tier 1	Hydrocarbons, total (C6-C50) is the sum of CCME Fraction F1(C6-C10), F2(C10-C16), F3(C16-C34), and F4(C34-C50), where F2-F4 have been treated with silica gel. F4G-sg is not used within this calculation due to overlap with other fractions.
F2-F4 (sg) minus PAH	EC600SG Waterloo - Environmental	Water	CCME PHC in Soil - Tier 1	F2-F4 (sg) minus PAH is calculated as follows: F2-F4 minus PAH = Sum of CCME Fraction 2 (C10-C16), CCME Fraction 3 (C16-C34), and CCME Fraction 4 (C34-C50), minus select Polycyclic Aromatic Hydrocarbons (PAH).

Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Dissolved Metals Water Filtration	EP421 Waterloo - Environmental	Water	APHA 3030B	Water samples are filtered (0.45 um), and preserved with HNO3.
Dissolved Mercury Water Filtration	EP509 Waterloo - Environmental	Water	APHA 3030B	Water samples are filtered (0.45 um), and preserved with HCl.
VOCs Preparation for Headspace Analysis	EP581 Waterloo - Environmental	Water	EPA 5021A (mod)	Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler. An aliquot of the headspace is then injected into the GC/MS-FID system.
PHCs and PAHs Hexane Extraction	EP601 Waterloo - Environmental	Water	EPA 3511 (mod)	Petroleum Hydrocarbons (PHCs) and Polycyclic Aromatic Hydrocarbons (PAHs) are extracted using a hexane liquid-liquid extraction.
Pesticides, PCB, and Neutral Extractable Chlorinated Hydrocarbons Extraction	EP660 Waterloo - Environmental	Water	EPA 3511 (mod)	Samples are extracted from aqueous sample using an organic solvent liquid-liquid extraction.

QUALITY CONTROL REPORT

Work Order	: **WT2205959**	Page	: 1 of 16
Client	: GHD Limited	Laboratory	: Waterloo - Environmental
Contact	: Jennifer Balkwill	Account Manager	: Rick Hawthorne
Address	: 455 Phillip Street Waterloo ON Canada N2L 3X2	Address	: 60 Northland Road, Unit 1 Waterloo, Ontario Canada N2V 2B8
Telephone	: ----	Telephone	: +1 519 886 6910
Project	: 12581540	Date Samples Received	: 21-Jun-2022 11:30
PO	: 735-003274	Date Analysis Commenced	: 22-Jun-2022
C-O-C number	: ----	Issue Date	: 29-Jun-2022 13:23
Sampler	: Sam Bessai		
Site	: ----		
Quote number	: 12581540 - City of Mississauga		
No. of samples received	: 6		
No. of samples analysed	: 6		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percent Difference (RPD) and Data Quality Objectives
- Matrix Spike (MS) Report; Recovery and Data Quality Objectives
- Method Blank (MB) Report; Recovery and Data Quality Objectives
- Laboratory Control Sample (LCS) Report; Recovery and Data Quality Objectives

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

Signatories	*Position*	*Laboratory Department*
Greg Pokocky	Supervisor - Inorganic	Waterloo Inorganics, Waterloo, Ontario
Greg Pokocky	Supervisor - Inorganic	Waterloo Metals, Waterloo, Ontario
Jeremy Gingras	Team Leader - Semi-Volatile Instrumentation	Waterloo Organics, Waterloo, Ontario
Sarah Birch	Team Leader - Volatiles	Waterloo Organics, Waterloo, Ontario

General Comments

The ALS Quality Control (QC) report is optionally provided to ALS clients upon request. ALS test methods include comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined Data Quality Objectives (DQOs) to provide confidence in the accuracy of associated test results. This report contains detailed results for all QC results applicable to this sample submission. Please refer to the ALS Quality Control Interpretation report (QCI) for applicable method references and methodology summaries.

Key :

Anonymous = Refers to samples which are not part of this work order, but which formed part of the QC process lot.
CAS Number = Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
DQO = Data Quality Objective.
LOR = Limit of Reporting (detection limit).
RPD = Relative Percent Difference
# = Indicates a QC result that did not meet the ALS DQO.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Laboratory Duplicate (DUP) Report

A Laboratory Duplicate (DUP) is a randomly selected intralaboratory replicate sample. Laboratory Duplicates provide information regarding method precision and sample heterogeneity. ALS DQOs for Laboratory Duplicates are expressed as test-specific limits for Relative Percent Difference (RPD), or as an absolute difference limit of 2 times the LOR for low concentration duplicates within ~ 4-10 times the LOR (cut-off is test-specific).

Sub-Matrix: **Water**

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	*Client sample ID*	*Analyte*	*CAS Number*	*Method*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD(%) or Difference*	*Duplicate Limits*	*Qualifier*
Physical Tests (QC Lot: 533317)											
WT2205959-001	GW-12581540-220617-SB-MW1	pH	----	E108	0.10	pH units	7.64	7.62	0.02	Diff <2x LOR	----
Physical Tests (QC Lot: 533318)											
WT2205959-001	GW-12581540-220617-SB-MW1	conductivity	----	E100	1.0	µS/cm	2.06 mS/cm	2070	0.484%	10%	----
Anions and Nutrients (QC Lot: 533311)											
WT2206018-008	Anonymous	chloride	16887-00-6	E235.Cl	0.50	mg/L	47.4	47.4	0.0752%	20%	----
Cyanides (QC Lot: 537265)											
WT2205959-001	GW-12581540-220617-SB-MW1	cyanide, weak acid dissociable	----	E336	0.0020	mg/L	<2.0 µg/L	<0.0020	0	Diff <2x LOR	----
Dissolved Metals (QC Lot: 533342)											
WT2205959-001	GW-12581540-220617-SB-MW1	mercury, dissolved	7439-97-6	E509	0.0000050	mg/L	<0.0050 µg/L	<0.0000050	0	Diff <2x LOR	----
Dissolved Metals (QC Lot: 533756)											
WT2205959-001	GW-12581540-220617-SB-MW1	antimony, dissolved	7440-36-0	E421	0.00010	mg/L	1.92 µg/L	0.00191	0.578%	20%	----
		arsenic, dissolved	7440-38-2	E421	0.00010	mg/L	3.59 µg/L	0.00373	3.78%	20%	----
		barium, dissolved	7440-39-3	E421	0.00010	mg/L	132 µg/L	0.129	2.06%	20%	----
		beryllium, dissolved	7440-41-7	E421	0.000020	mg/L	<0.020 µg/L	<0.000020	0	Diff <2x LOR	----
		boron, dissolved	7440-42-8	E421	0.010	mg/L	187 µg/L	0.188	0.272%	20%	----
		cadmium, dissolved	7440-43-9	E421	0.0000050	mg/L	0.0124 µg/L	0.0000190	0.0000066	Diff <2x LOR	----
		chromium, dissolved	7440-47-3	E421	0.00050	mg/L	<0.50 µg/L	<0.00050	0	Diff <2x LOR	----
		cobalt, dissolved	7440-48-4	E421	0.00010	mg/L	0.78 µg/L	0.00079	0.000007	Diff <2x LOR	----
		copper, dissolved	7440-50-8	E421	0.00020	mg/L	1.87 µg/L	0.00193	0.00005	Diff <2x LOR	----
		lead, dissolved	7439-92-1	E421	0.000050	mg/L	0.056 µg/L	0.000056	0.0000002	Diff <2x LOR	----
		molybdenum, dissolved	7439-98-7	E421	0.000050	mg/L	9.18 µg/L	0.00918	0.0512%	20%	----
		nickel, dissolved	7440-02-0	E421	0.00050	mg/L	4.03 µg/L	0.00403	0.000008	Diff <2x LOR	----
		selenium, dissolved	7782-49-2	E421	0.000050	mg/L	0.388 µg/L	0.000369	0.000019	Diff <2x LOR	----
		silver, dissolved	7440-22-4	E421	0.000010	mg/L	<0.010 µg/L	<0.000010	0	Diff <2x LOR	----
		sodium, dissolved	7440-23-5	E421	0.500	mg/L	174000 µg/L	173	0.974%	20%	----
		thallium, dissolved	7440-28-0	E421	0.000010	mg/L	0.034 µg/L	0.000026	0.000008	Diff <2x LOR	----
		uranium, dissolved	7440-61-1	E421	0.000010	mg/L	5.84 µg/L	0.00586	0.266%	20%	----
		vanadium, dissolved	7440-62-2	E421	0.00050	mg/L	1.16 µg/L	0.00114	0.00002	Diff <2x LOR	----
		zinc, dissolved	7440-66-6	E421	0.0010	mg/L	4.9 µg/L	0.0050	0.00007	Diff <2x LOR	----

Sub-Matrix: **Water**

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	*Client sample ID*	*Analyte*	*CAS Number*	*Method*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD(%) or Difference*	*Duplicate Limits*	*Qualifier*
Speciated Metals (QC Lot: 533642)											
VA22B3939-001	Anonymous	chromium, hexavalent [Cr VI], dissolved	18540-29-9	E532A	0.00050	mg/L	<0.00050	<0.00050	0	Diff <2x LOR	----
Volatile Organic Compounds (QC Lot: 534783)											
WT2205877-001	Anonymous	acetone	67-64-1	E611D	20	µg/L	<20	<20	0	Diff <2x LOR	----
		benzene	71-43-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		bromodichloromethane	75-27-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		bromoform	75-25-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		bromomethane	74-83-9	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		carbon tetrachloride	56-23-5	E611D	0.20	µg/L	<0.20	<0.20	0	Diff <2x LOR	----
		chlorobenzene	108-90-7	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		chloroform	67-66-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		dibromochloromethane	124-48-1	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		dibromoethane, 1,2-	106-93-4	E611D	0.20	µg/L	<0.20	<0.20	0	Diff <2x LOR	----
		dichlorobenzene, 1,2-	95-50-1	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		dichlorobenzene, 1,3-	541-73-1	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		dichlorobenzene, 1,4-	106-46-7	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		dichlorodifluoromethane	75-71-8	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		dichloroethane, 1,1-	75-34-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		dichloroethane, 1,2-	107-06-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		dichloroethylene, 1,1-	75-35-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		dichloroethylene, cis-1,2-	156-59-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		dichloroethylene, trans-1,2-	156-60-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		dichloromethane	75-09-2	E611D	1.0	µg/L	<1.0	<1.0	0	Diff <2x LOR	----
		dichloropropane, 1,2-	78-87-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		dichloropropylene, cis-1,3-	10061-01-5	E611D	0.30	µg/L	<0.30	<0.30	0	Diff <2x LOR	----
		dichloropropylene, trans-1,3-	10061-02-6	E611D	0.30	µg/L	<0.30	<0.30	0	Diff <2x LOR	----
		ethylbenzene	100-41-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		hexane, n-	110-54-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		methyl ethyl ketone [MEK]	78-93-3	E611D	20	µg/L	<20	<20	0	Diff <2x LOR	----
		methyl isobutyl ketone [MIBK]	108-10-1	E611D	20	µg/L	<20	<20	0	Diff <2x LOR	----
		methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		styrene	100-42-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		tetrachloroethylene	127-18-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		toluene	108-88-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----

Sub-Matrix: **Water**

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	*Client sample ID*	*Analyte*	*CAS Number*	*Method*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD(%) or Difference*	*Duplicate Limits*	*Qualifier*
Volatile Organic Compounds (QC Lot: 534783) - continued											
WT2205877-001	Anonymous	trichloroethane, 1,1,1-	71-55-6	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		trichloroethane, 1,1,2-	79-00-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		trichloroethylene	79-01-6	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		trichlorofluoromethane	75-69-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		vinyl chloride	75-01-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		xylene, m+p-	179601-23-1	E611D	0.40	µg/L	<0.40	<0.40	0	Diff <2x LOR	----
		xylene, o-	95-47-6	E611D	0.30	µg/L	<0.30	<0.30	0	Diff <2x LOR	----
Hydrocarbons (QC Lot: 534784)											
WT2205877-001	Anonymous	F1 (C6-C10)	----	E581.F1-L	25	µg/L	<25	<25	0	Diff <2x LOR	----

Method Blank (MB) Report

A Method Blank is an analyte-free matrix that undergoes sample processing identical to that carried out for test samples. Method Blank results are used to monitor and control for potential contamination from the laboratory environment and reagents. For most tests, the DQO for Method Blanks is for the result to be < LOR.

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Physical Tests (QCLot: 533318)						
conductivity	----	E100	1	µS/cm	<1.0	----
Anions and Nutrients (QCLot: 533311)						
chloride	16887-00-6	E235.Cl	0.5	mg/L	<0.50	----
Cyanides (QCLot: 537265)						
cyanide, weak acid dissociable	----	E336	0.002	mg/L	<0.0020	----
Dissolved Metals (QCLot: 533342)						
mercury, dissolved	7439-97-6	E509	0.000005	mg/L	<0.0000050	----
Dissolved Metals (QCLot: 533756)						
antimony, dissolved	7440-36-0	E421	0.0001	mg/L	<0.00010	----
arsenic, dissolved	7440-38-2	E421	0.0001	mg/L	<0.00010	----
barium, dissolved	7440-39-3	E421	0.0001	mg/L	<0.00010	----
beryllium, dissolved	7440-41-7	E421	0.00002	mg/L	<0.000020	----
boron, dissolved	7440-42-8	E421	0.01	mg/L	<0.010	----
cadmium, dissolved	7440-43-9	E421	0.000005	mg/L	<0.0000050	----
chromium, dissolved	7440-47-3	E421	0.0005	mg/L	<0.00050	----
cobalt, dissolved	7440-48-4	E421	0.0001	mg/L	<0.00010	----
copper, dissolved	7440-50-8	E421	0.0002	mg/L	<0.00020	----
lead, dissolved	7439-92-1	E421	0.00005	mg/L	<0.000050	----
molybdenum, dissolved	7439-98-7	E421	0.00005	mg/L	<0.000050	----
nickel, dissolved	7440-02-0	E421	0.0005	mg/L	<0.00050	----
selenium, dissolved	7782-49-2	E421	0.00005	mg/L	<0.000050	----
silver, dissolved	7440-22-4	E421	0.00001	mg/L	<0.000010	----
sodium, dissolved	7440-23-5	E421	0.05	mg/L	<0.050	----
thallium, dissolved	7440-28-0	E421	0.00001	mg/L	<0.000010	----
uranium, dissolved	7440-61-1	E421	0.00001	mg/L	<0.000010	----
vanadium, dissolved	7440-62-2	E421	0.0005	mg/L	<0.00050	----
zinc, dissolved	7440-66-6	E421	0.001	mg/L	<0.0010	----
Speciated Metals (QCLot: 533642)						
chromium, hexavalent [Cr VI], dissolved	18540-29-9	E532A	0.0005	mg/L	<0.00050	----
Volatile Organic Compounds (QCLot: 534783)						
acetone	67-64-1	E611D	20	µg/L	<20	----
benzene	71-43-2	E611D	0.5	µg/L	<0.50	----
bromodichloromethane	75-27-4	E611D	0.5	µg/L	<0.50	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Volatile Organic Compounds (QCLot: 534783) - continued						
bromoform	75-25-2	E611D	0.5	µg/L	<0.50	----
bromomethane	74-83-9	E611D	0.5	µg/L	<0.50	----
carbon tetrachloride	56-23-5	E611D	0.2	µg/L	<0.20	----
chlorobenzene	108-90-7	E611D	0.5	µg/L	<0.50	----
chloroform	67-66-3	E611D	0.5	µg/L	<0.50	----
dibromochloromethane	124-48-1	E611D	0.5	µg/L	<0.50	----
dibromoethane, 1,2-	106-93-4	E611D	0.2	µg/L	<0.20	----
dichlorobenzene, 1,2-	95-50-1	E611D	0.5	µg/L	<0.50	----
dichlorobenzene, 1,3-	541-73-1	E611D	0.5	µg/L	<0.50	----
dichlorobenzene, 1,4-	106-46-7	E611D	0.5	µg/L	<0.50	----
dichlorodifluoromethane	75-71-8	E611D	0.5	µg/L	<0.50	----
dichloroethane, 1,1-	75-34-3	E611D	0.5	µg/L	<0.50	----
dichloroethane, 1,2-	107-06-2	E611D	0.5	µg/L	<0.50	----
dichloroethylene, 1,1-	75-35-4	E611D	0.5	µg/L	<0.50	----
dichloroethylene, cis-1,2-	156-59-2	E611D	0.5	µg/L	<0.50	----
dichloroethylene, trans-1,2-	156-60-5	E611D	0.5	µg/L	<0.50	----
dichloromethane	75-09-2	E611D	1	µg/L	<1.0	----
dichloropropane, 1,2-	78-87-5	E611D	0.5	µg/L	<0.50	----
dichloropropylene, cis-1,3-	10061-01-5	E611D	0.3	µg/L	<0.30	----
dichloropropylene, trans-1,3-	10061-02-6	E611D	0.3	µg/L	<0.30	----
ethylbenzene	100-41-4	E611D	0.5	µg/L	<0.50	----
hexane, n-	110-54-3	E611D	0.5	µg/L	<0.50	----
methyl ethyl ketone [MEK]	78-93-3	E611D	20	µg/L	<20	----
methyl isobutyl ketone [MIBK]	108-10-1	E611D	20	µg/L	<20	----
methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.5	µg/L	<0.50	----
styrene	100-42-5	E611D	0.5	µg/L	<0.50	----
tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.5	µg/L	<0.50	----
tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.5	µg/L	<0.50	----
tetrachloroethylene	127-18-4	E611D	0.5	µg/L	<0.50	----
toluene	108-88-3	E611D	0.5	µg/L	<0.50	----
trichloroethane, 1,1,1-	71-55-6	E611D	0.5	µg/L	<0.50	----
trichloroethane, 1,1,2-	79-00-5	E611D	0.5	µg/L	<0.50	----
trichloroethylene	79-01-6	E611D	0.5	µg/L	<0.50	----
trichlorofluoromethane	75-69-4	E611D	0.5	µg/L	<0.50	----
vinyl chloride	75-01-4	E611D	0.5	µg/L	<0.50	----
xylene, m+p-	179601-23-1	E611D	0.4	µg/L	<0.40	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Volatile Organic Compounds (QCLot: 534783) - continued						
xylene, o-	95-47-6	E611D	0.3	µg/L	<0.30	----
Hydrocarbons (QCLot: 534784)						
F1 (C6-C10)	----	E581.F1-L	25	µg/L	<25	----
Hydrocarbons (QCLot: 541006)						
F2 (C10-C16)	----	E601.SG	100	µg/L	<100	----
F3 (C16-C34)	----	E601.SG	250	µg/L	<250	----
F4 (C34-C50)	----	E601.SG	250	µg/L	<250	----
Polycyclic Aromatic Hydrocarbons (QCLot: 541008)						
acenaphthene	83-32-9	E641A	0.01	µg/L	<0.010	----
acenaphthylene	208-96-8	E641A	0.01	µg/L	<0.010	----
anthracene	120-12-7	E641A	0.01	µg/L	<0.010	----
benz(a)anthracene	56-55-3	E641A	0.01	µg/L	<0.010	----
benzo(a)pyrene	50-32-8	E641A	0.005	µg/L	<0.0050	----
benzo(b+j)fluoranthene	n/a	E641A	0.01	µg/L	<0.010	----
benzo(g,h,i)perylene	191-24-2	E641A	0.01	µg/L	<0.010	----
benzo(k)fluoranthene	207-08-9	E641A	0.01	µg/L	<0.010	----
chrysene	218-01-9	E641A	0.01	µg/L	<0.010	----
dibenz(a,h)anthracene	53-70-3	E641A	0.005	µg/L	<0.0050	----
fluoranthene	206-44-0	E641A	0.01	µg/L	<0.010	----
fluorene	86-73-7	E641A	0.01	µg/L	<0.010	----
indeno(1,2,3-c,d)pyrene	193-39-5	E641A	0.01	µg/L	<0.010	----
methylnaphthalene, 1-	90-12-0	E641A	0.01	µg/L	<0.010	----
methylnaphthalene, 2-	91-57-6	E641A	0.01	µg/L	<0.010	----
naphthalene	91-20-3	E641A	0.05	µg/L	<0.050	----
phenanthrene	85-01-8	E641A	0.02	µg/L	<0.020	----
pyrene	129-00-0	E641A	0.01	µg/L	<0.010	----
Polychlorinated Biphenyls (QCLot: 535027)						
Aroclor 1016	12674-11-2	E687	0.02	µg/L	<0.020	----
Aroclor 1221	11104-28-2	E687	0.02	µg/L	<0.020	----
Aroclor 1232	11141-16-5	E687	0.02	µg/L	<0.020	----
Aroclor 1242	53469-21-9	E687	0.02	µg/L	<0.020	----
Aroclor 1248	12672-29-6	E687	0.02	µg/L	<0.020	----
Aroclor 1254	11097-69-1	E687	0.02	µg/L	<0.020	----
Aroclor 1260	11096-82-5	E687	0.02	µg/L	<0.020	----
Aroclor 1262	37324-23-5	E687	0.02	µg/L	<0.020	----
Aroclor 1268	11100-14-4	E687	0.02	µg/L	<0.020	----

Laboratory Control Sample (LCS) Report

A Laboratory Control Sample (LCS) is an analyte-free matrix that has been fortified (spiked) with test analytes at known concentration and processed in an identical manner to test samples. LCS results are expressed as percent recovery, and are used to monitor and control test method accuracy and precision, independent of test sample matrix.

Sub-Matrix: **Water**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Concentration	LCS	Low	High	Qualifier
Physical Tests (QCLot: 533317)									
pH	----	E108	----	pH units	7 pH units	100	98.0	102	----
Physical Tests (QCLot: 533318)									
conductivity	----	E100	1	µS/cm	1409 µS/cm	98.8	90.0	110	----
Anions and Nutrients (QCLot: 533311)									
chloride	16887-00-6	E235.Cl	0.5	mg/L	100 mg/L	101	90.0	110	----
Cyanides (QCLot: 537265)									
cyanide, weak acid dissociable	----	E336	0.002	mg/L	0.125 mg/L	108	80.0	120	----
mercury, dissolved	7439-97-6	E509	0.000005	mg/L	0.0001 mg/L	102	80.0	120	----
Dissolved Metals (QCLot: 533756)									
antimony, dissolved	7440-36-0	E421	0.0001	mg/L	0.05 mg/L	108	80.0	120	----
arsenic, dissolved	7440-38-2	E421	0.0001	mg/L	0.05 mg/L	105	80.0	120	----
barium, dissolved	7440-39-3	E421	0.0001	mg/L	0.0125 mg/L	103	80.0	120	----
beryllium, dissolved	7440-41-7	E421	0.00002	mg/L	0.005 mg/L	105	80.0	120	----
boron, dissolved	7440-42-8	E421	0.01	mg/L	0.05 mg/L	100	80.0	120	----
cadmium, dissolved	7440-43-9	E421	0.000005	mg/L	0.005 mg/L	106	80.0	120	----
chromium, dissolved	7440-47-3	E421	0.0005	mg/L	0.0125 mg/L	106	80.0	120	----
cobalt, dissolved	7440-48-4	E421	0.0001	mg/L	0.0125 mg/L	106	80.0	120	----
copper, dissolved	7440-50-8	E421	0.0002	mg/L	0.0125 mg/L	105	80.0	120	----
lead, dissolved	7439-92-1	E421	0.00005	mg/L	0.025 mg/L	108	80.0	120	----
molybdenum, dissolved	7439-98-7	E421	0.00005	mg/L	0.0125 mg/L	104	80.0	120	----
nickel, dissolved	7440-02-0	E421	0.0005	mg/L	0.025 mg/L	106	80.0	120	----
selenium, dissolved	7782-49-2	E421	0.00005	mg/L	0.05 mg/L	102	80.0	120	----
silver, dissolved	7440-22-4	E421	0.00001	mg/L	0.005 mg/L	97.6	80.0	120	----
sodium, dissolved	7440-23-5	E421	0.05	mg/L	2.5 mg/L	111	80.0	120	----
thallium, dissolved	7440-28-0	E421	0.00001	mg/L	0.05 mg/L	107	80.0	120	----
uranium, dissolved	7440-61-1	E421	0.00001	mg/L	0.00025 mg/L	112	80.0	120	----
vanadium, dissolved	7440-62-2	E421	0.0005	mg/L	0.025 mg/L	106	80.0	120	----
zinc, dissolved	7440-66-6	E421	0.001	mg/L	0.025 mg/L	106	80.0	120	----
Speciated Metals (QCLot: 533642)									
chromium, hexavalent [Cr VI], dissolved	18540-29-9	E532A	0.0005	mg/L	0.025 mg/L	104	80.0	120	----

Sub-Matrix: **Water**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Concentration	LCS	Low	High	Qualifier
Volatile Organic Compounds (QCLot: 534783)									
acetone	67-64-1	E611D	20	µg/L	100 µg/L	128	70.0	130	----
benzene	71-43-2	E611D	0.5	µg/L	100 µg/L	104	70.0	130	----
bromodichloromethane	75-27-4	E611D	0.5	µg/L	100 µg/L	113	70.0	130	----
bromoform	75-25-2	E611D	0.5	µg/L	100 µg/L	102	70.0	130	----
bromomethane	74-83-9	E611D	0.5	µg/L	100 µg/L	98.5	70.0	130	----
carbon tetrachloride	56-23-5	E611D	0.2	µg/L	100 µg/L	99.6	70.0	130	----
chlorobenzene	108-90-7	E611D	0.5	µg/L	100 µg/L	90.1	70.0	130	----
chloroform	67-66-3	E611D	0.5	µg/L	100 µg/L	103	70.0	130	----
dibromochloromethane	124-48-1	E611D	0.5	µg/L	100 µg/L	107	70.0	130	----
dibromoethane, 1,2-	106-93-4	E611D	0.2	µg/L	100 µg/L	94.8	70.0	130	----
dichlorobenzene, 1,2-	95-50-1	E611D	0.5	µg/L	100 µg/L	97.2	70.0	130	----
dichlorobenzene, 1,3-	541-73-1	E611D	0.5	µg/L	100 µg/L	95.8	70.0	130	----
dichlorobenzene, 1,4-	106-46-7	E611D	0.5	µg/L	100 µg/L	97.8	70.0	130	----
dichlorodifluoromethane	75-71-8	E611D	0.5	µg/L	100 µg/L	70.9	70.0	130	----
dichloroethane, 1,1-	75-34-3	E611D	0.5	µg/L	100 µg/L	114	70.0	130	----
dichloroethane, 1,2-	107-06-2	E611D	0.5	µg/L	100 µg/L	113	70.0	130	----
dichloroethylene, 1,1-	75-35-4	E611D	0.5	µg/L	100 µg/L	100	70.0	130	----
dichloroethylene, cis-1,2-	156-59-2	E611D	0.5	µg/L	100 µg/L	96.6	70.0	130	----
dichloroethylene, trans-1,2-	156-60-5	E611D	0.5	µg/L	100 µg/L	101	70.0	130	----
dichloromethane	75-09-2	E611D	1	µg/L	100 µg/L	109	70.0	130	----
dichloropropane, 1,2-	78-87-5	E611D	0.5	µg/L	100 µg/L	104	70.0	130	----
dichloropropylene, cis-1,3-	10061-01-5	E611D	0.3	µg/L	100 µg/L	108	70.0	130	----
dichloropropylene, trans-1,3-	10061-02-6	E611D	0.3	µg/L	100 µg/L	95.1	70.0	130	----
ethylbenzene	100-41-4	E611D	0.5	µg/L	100 µg/L	89.3	70.0	130	----
hexane, n-	110-54-3	E611D	0.5	µg/L	100 µg/L	97.0	70.0	130	----
methyl ethyl ketone [MEK]	78-93-3	E611D	20	µg/L	100 µg/L	118	70.0	130	----
methyl isobutyl ketone [MIBK]	108-10-1	E611D	20	µg/L	100 µg/L	113	70.0	130	----
methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.5	µg/L	100 µg/L	101	70.0	130	----
styrene	100-42-5	E611D	0.5	µg/L	100 µg/L	88.9	70.0	130	----
tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.5	µg/L	100 µg/L	85.9	70.0	130	----
tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.5	µg/L	100 µg/L	114	70.0	130	----
tetrachloroethylene	127-18-4	E611D	0.5	µg/L	100 µg/L	87.5	70.0	130	----
toluene	108-88-3	E611D	0.5	µg/L	100 µg/L	92.5	70.0	130	----
trichloroethane, 1,1,1-	71-55-6	E611D	0.5	µg/L	100 µg/L	98.8	70.0	130	----
trichloroethane, 1,1,2-	79-00-5	E611D	0.5	µg/L	100 µg/L	96.4	70.0	130	----
trichloroethylene	79-01-6	E611D	0.5	µg/L	100 µg/L	103	70.0	130	----
trichlorofluoromethane	75-69-4	E611D	0.5	µg/L	100 µg/L	93.3	70.0	130	----

Sub-Matrix: **Water**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Concentration	LCS	Low	High	Qualifier
Volatile Organic Compounds (QCLot: 534783) - continued									
vinyl chloride	75-01-4	E611D	0.5	µg/L	100 µg/L	79.4	70.0	130	----
xylene, m+p-	179601-23-1	E611D	0.4	µg/L	200 µg/L	96.6	70.0	130	----
xylene, o-	95-47-6	E611D	0.3	µg/L	100 µg/L	89.5	70.0	130	----
Hydrocarbons (QCLot: 534784)									
F1 (C6-C10)	----	E581.F1-L	25	µg/L	2000 µg/L	105	80.0	120	----
Hydrocarbons (QCLot: 541006)									
F2 (C10-C16)	----	E601.SG	100	µg/L	4842.53 µg/L	106	70.0	130	----
F3 (C16-C34)	----	E601.SG	250	µg/L	6889.61 µg/L	105	70.0	130	----
F4 (C34-C50)	----	E601.SG	250	µg/L	4362.39 µg/L	104	70.0	130	----
Polycyclic Aromatic Hydrocarbons (QCLot: 541008)									
acenaphthene	83-32-9	E641A	0.01	µg/L	0.5263 µg/L	102	50.0	140	----
acenaphthylene	208-96-8	E641A	0.01	µg/L	0.5263 µg/L	97.2	50.0	140	----
anthracene	120-12-7	E641A	0.01	µg/L	0.5263 µg/L	103	50.0	140	----
benz(a)anthracene	56-55-3	E641A	0.01	µg/L	0.5263 µg/L	107	50.0	140	----
benzo(a)pyrene	50-32-8	E641A	0.005	µg/L	0.5263 µg/L	90.4	50.0	140	----
benzo(b+j)fluoranthene	n/a	E641A	0.01	µg/L	0.5263 µg/L	90.0	50.0	140	----
benzo(g,h,i)perylene	191-24-2	E641A	0.01	µg/L	0.5263 µg/L	108	50.0	140	----
benzo(k)fluoranthene	207-08-9	E641A	0.01	µg/L	0.5263 µg/L	103	50.0	140	----
chrysene	218-01-9	E641A	0.01	µg/L	0.5263 µg/L	112	50.0	140	----
dibenz(a,h)anthracene	53-70-3	E641A	0.005	µg/L	0.5263 µg/L	100	50.0	140	----
fluoranthene	206-44-0	E641A	0.01	µg/L	0.5263 µg/L	108	50.0	140	----
fluorene	86-73-7	E641A	0.01	µg/L	0.5263 µg/L	104	50.0	140	----
indeno(1,2,3-c,d)pyrene	193-39-5	E641A	0.01	µg/L	0.5263 µg/L	114	50.0	140	----
methylnaphthalene, 1-	90-12-0	E641A	0.01	µg/L	0.5263 µg/L	99.9	50.0	140	----
methylnaphthalene, 2-	91-57-6	E641A	0.01	µg/L	0.5263 µg/L	93.0	50.0	140	----
naphthalene	91-20-3	E641A	0.05	µg/L	0.5263 µg/L	95.8	50.0	140	----
phenanthrene	85-01-8	E641A	0.02	µg/L	0.5263 µg/L	110	50.0	140	----
pyrene	129-00-0	E641A	0.01	µg/L	0.5263 µg/L	109	50.0	140	----
Polychlorinated Biphenyls (QCLot: 535027)									
Aroclor 1016	12674-11-2	E687	0.02	µg/L	0.2 µg/L	114	60.0	140	----
Aroclor 1221	11104-28-2	E687	0.02	µg/L	0.2 µg/L	114	60.0	140	----
Aroclor 1232	11141-16-5	E687	0.02	µg/L	0.2 µg/L	114	60.0	140	----
Aroclor 1242	53469-21-9	E687	0.02	µg/L	0.2 µg/L	114	60.0	140	----
Aroclor 1248	12672-29-6	E687	0.02	µg/L	0.2 µg/L	112	60.0	140	----
Aroclor 1254	11097-69-1	E687	0.02	µg/L	0.2 µg/L	124	60.0	140	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
					Concentration	LCS	Low	High	Qualifier
Polychlorinated Biphenyls (QCLot: 535027) - continued									
Aroclor 1260	11096-82-5	E687	0.02	µg/L	0.2 µg/L	116	60.0	140	----
Aroclor 1262	37324-23-5	E687	0.02	µg/L	0.2 µg/L	116	60.0	140	----
Aroclor 1268	11100-14-4	E687	0.02	µg/L	0.2 µg/L	116	60.0	140	----

Matrix Spike (MS) Report

A Matrix Spike (MS) is a randomly selected intra-laboratory replicate sample that has been fortified (spiked) with test analytes at known concentration, and processed in an identical manner to test samples. Matrix Spikes provide information regarding analyte recovery and potential matrix effects. MS DQO exceedances due to sample matrix may sometimes be unavoidable; in such cases, test results for the associated sample (or similar samples) may be subject to bias. ND – Recovery not determined, background level >= 1x spike level.

Sub-Matrix: **Water**

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Anions and Nutrients (QCLot: 533311)										
WT2206018-008	Anonymous	chloride	16887-00-6	E235.Cl	99.1 mg/L	100 mg/L	99.1	75.0	125	----
Cyanides (QCLot: 537265)										
WT2205959-001	GW-12581540-220617-SB-MW1	cyanide, weak acid dissociable	----	E336	0.132 mg/L	0.125 mg/L	106	70.0	130	----
Dissolved Metals (QCLot: 533342)										
WT2205959-002	GW-12581540-220617-SB-MW2	mercury, dissolved	7439-97-6	E509	0.0000941 mg/L	0.0001 mg/L	94.1	70.0	130	----
Dissolved Metals (QCLot: 533756)										
WT2205959-002	GW-12581540-220617-SB-MW2	antimony, dissolved	7440-36-0	E421	0.510 mg/L	0.5 mg/L	102	70.0	130	----
		arsenic, dissolved	7440-38-2	E421	0.505 mg/L	0.5 mg/L	101	70.0	130	----
		barium, dissolved	7440-39-3	E421	0.122 mg/L	0.125 mg/L	97.4	70.0	130	----
		beryllium, dissolved	7440-41-7	E421	0.0473 mg/L	0.05 mg/L	94.7	70.0	130	----
		boron, dissolved	7440-42-8	E421	0.457 mg/L	0.5 mg/L	91.5	70.0	130	----
		cadmium, dissolved	7440-43-9	E421	0.0466 mg/L	0.05 mg/L	93.3	70.0	130	----
		chromium, dissolved	7440-47-3	E421	0.120 mg/L	0.125 mg/L	95.7	70.0	130	----
		cobalt, dissolved	7440-48-4	E421	0.120 mg/L	0.125 mg/L	96.2	70.0	130	----
		copper, dissolved	7440-50-8	E421	0.115 mg/L	0.125 mg/L	92.1	70.0	130	----
		lead, dissolved	7439-92-1	E421	0.229 mg/L	0.25 mg/L	91.7	70.0	130	----
		molybdenum, dissolved	7439-98-7	E421	0.121 mg/L	0.125 mg/L	96.9	70.0	130	----
		nickel, dissolved	7440-02-0	E421	0.235 mg/L	0.25 mg/L	94.1	70.0	130	----
		selenium, dissolved	7782-49-2	E421	0.487 mg/L	0.5 mg/L	97.4	70.0	130	----
		silver, dissolved	7440-22-4	E421	0.0345 mg/L	0.05 mg/L	68.9	70.0	130	----
		sodium, dissolved	7440-23-5	E421	ND mg/L	25 mg/L	ND	70.0	130	----
		thallium, dissolved	7440-28-0	E421	0.459 mg/L	0.5 mg/L	91.8	70.0	130	----
		uranium, dissolved	7440-61-1	E421	0.00245 mg/L	0.0025 mg/L	98.1	70.0	130	----
		vanadium, dissolved	7440-62-2	E421	0.250 mg/L	0.25 mg/L	100	70.0	130	----
		zinc, dissolved	7440-66-6	E421	0.233 mg/L	0.25 mg/L	93.2	70.0	130	----
Speciated Metals (QCLot: 533642)										
VA22B3939-001	Anonymous	chromium, hexavalent [Cr VI], dissolved	18540-29-9	E532A	0.0404 mg/L	0.04 mg/L	101	70.0	130	----
Volatile Organic Compounds (QCLot: 534783)										
WT2205877-001	Anonymous	acetone	67-64-1	E611D	145 µg/L	100 µg/L	145	60.0	140	MES
		benzene	71-43-2	E611D	109 µg/L	100 µg/L	109	60.0	140	----

Sub-Matrix: **Water**

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Volatile Organic Compounds (QCLot: 534783) - continued										
WT2205877-001	Anonymous	bromodichloromethane	75-27-4	E611D	121 µg/L	100 µg/L	121	60.0	140	----
		bromoform	75-25-2	E611D	109 µg/L	100 µg/L	109	60.0	140	----
		bromomethane	74-83-9	E611D	96.7 µg/L	100 µg/L	96.7	60.0	140	----
		carbon tetrachloride	56-23-5	E611D	102 µg/L	100 µg/L	102	60.0	140	----
		chlorobenzene	108-90-7	E611D	93.3 µg/L	100 µg/L	93.3	60.0	140	----
		chloroform	67-66-3	E611D	109 µg/L	100 µg/L	109	60.0	140	----
		dibromochloromethane	124-48-1	E611D	114 µg/L	100 µg/L	114	60.0	140	----
		dibromoethane, 1,2-	106-93-4	E611D	102 µg/L	100 µg/L	102	60.0	140	----
		dichlorobenzene, 1,2-	95-50-1	E611D	100 µg/L	100 µg/L	100	60.0	140	----
		dichlorobenzene, 1,3-	541-73-1	E611D	97.5 µg/L	100 µg/L	97.5	60.0	140	----
		dichlorobenzene, 1,4-	106-46-7	E611D	99.4 µg/L	100 µg/L	99.4	60.0	140	----
		dichlorodifluoromethane	75-71-8	E611D	60.4 µg/L	100 µg/L	60.4	60.0	140	----
		dichloroethane, 1,1-	75-34-3	E611D	118 µg/L	100 µg/L	118	60.0	140	----
		dichloroethane, 1,2-	107-06-2	E611D	123 µg/L	100 µg/L	123	60.0	140	----
		dichloroethylene, 1,1-	75-35-4	E611D	100.0 µg/L	100 µg/L	100.0	60.0	140	----
		dichloroethylene, cis-1,2-	156-59-2	E611D	101 µg/L	100 µg/L	101	60.0	140	----
		dichloroethylene, trans-1,2-	156-60-5	E611D	102 µg/L	100 µg/L	102	60.0	140	----
		dichloromethane	75-09-2	E611D	113 µg/L	100 µg/L	113	60.0	140	----
		dichloropropane, 1,2-	78-87-5	E611D	111 µg/L	100 µg/L	111	60.0	140	----
		dichloropropylene, cis-1,3-	10061-01-5	E611D	113 µg/L	100 µg/L	113	60.0	140	----
		dichloropropylene, trans-1,3-	10061-02-6	E611D	100 µg/L	100 µg/L	100	60.0	140	----
		ethylbenzene	100-41-4	E611D	91.4 µg/L	100 µg/L	91.4	60.0	140	----
		hexane, n-	110-54-3	E611D	94.2 µg/L	100 µg/L	94.2	60.0	140	----
		methyl ethyl ketone [MEK]	78-93-3	E611D	137 µg/L	100 µg/L	137	60.0	140	----
		methyl isobutyl ketone [MIBK]	108-10-1	E611D	126 µg/L	100 µg/L	126	60.0	140	----
		methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	104 µg/L	100 µg/L	104	60.0	140	----
		styrene	100-42-5	E611D	91.4 µg/L	100 µg/L	91.4	60.0	140	----
		tetrachloroethane, 1,1,1,2-	630-20-6	E611D	89.6 µg/L	100 µg/L	89.6	60.0	140	----
		tetrachloroethane, 1,1,2,2-	79-34-5	E611D	124 µg/L	100 µg/L	124	60.0	140	----
		tetrachloroethylene	127-18-4	E611D	88.7 µg/L	100 µg/L	88.7	60.0	140	----
		toluene	108-88-3	E611D	95.5 µg/L	100 µg/L	95.5	60.0	140	----
		trichloroethane, 1,1,1-	71-55-6	E611D	102 µg/L	100 µg/L	102	60.0	140	----
		trichloroethane, 1,1,2-	79-00-5	E611D	103 µg/L	100 µg/L	103	60.0	140	----
		trichloroethylene	79-01-6	E611D	107 µg/L	100 µg/L	107	60.0	140	----
		trichlorofluoromethane	75-69-4	E611D	91.4 µg/L	100 µg/L	91.4	60.0	140	----
		vinyl chloride	75-01-4	E611D	74.7 µg/L	100 µg/L	74.7	60.0	140	----
		xylene, m+p-	179601-23-1	E611D	197 µg/L	200 µg/L	98.7	60.0	140	----

Sub-Matrix: **Water**

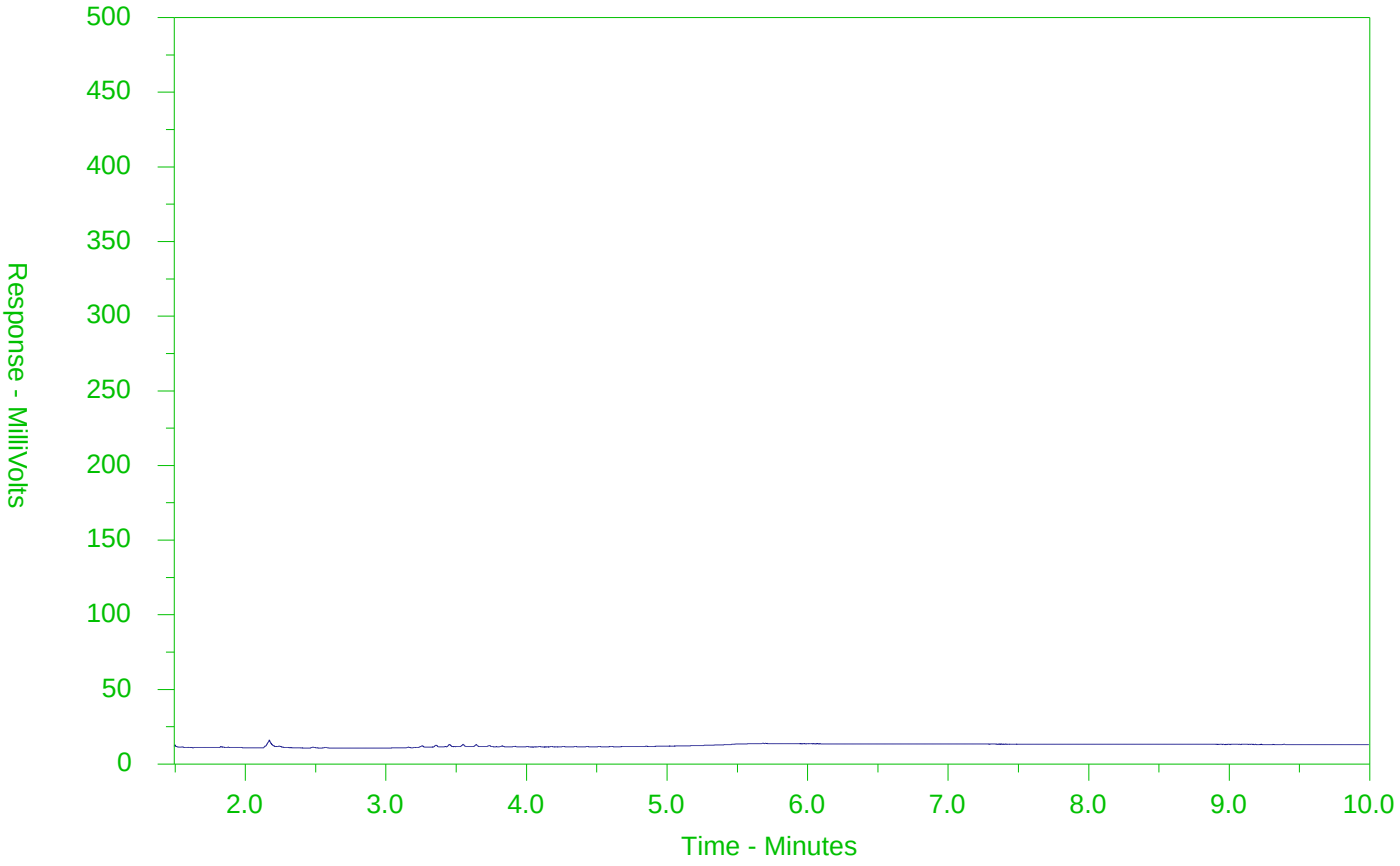
					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Volatile Organic Compounds (QCLot: 534783) - continued										
WT2205877-001	Anonymous	xylene, o-	95-47-6	E611D	92.5 µg/L	100 µg/L	92.5	60.0	140	----
Hydrocarbons (QCLot: 534784)										
WT2205877-001	Anonymous	F1 (C6-C10)	----	E581.F1-L	1830 µg/L	2000 µg/L	91.6	60.0	140	----

Qualifiers

Qualifier	Description
MES	*Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).*

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2205959-001-E601.SG
Client Sample ID: GW-12581540-220617-SB-MW1



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →	← Motor Oils/Lube Oils/Grease →		
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

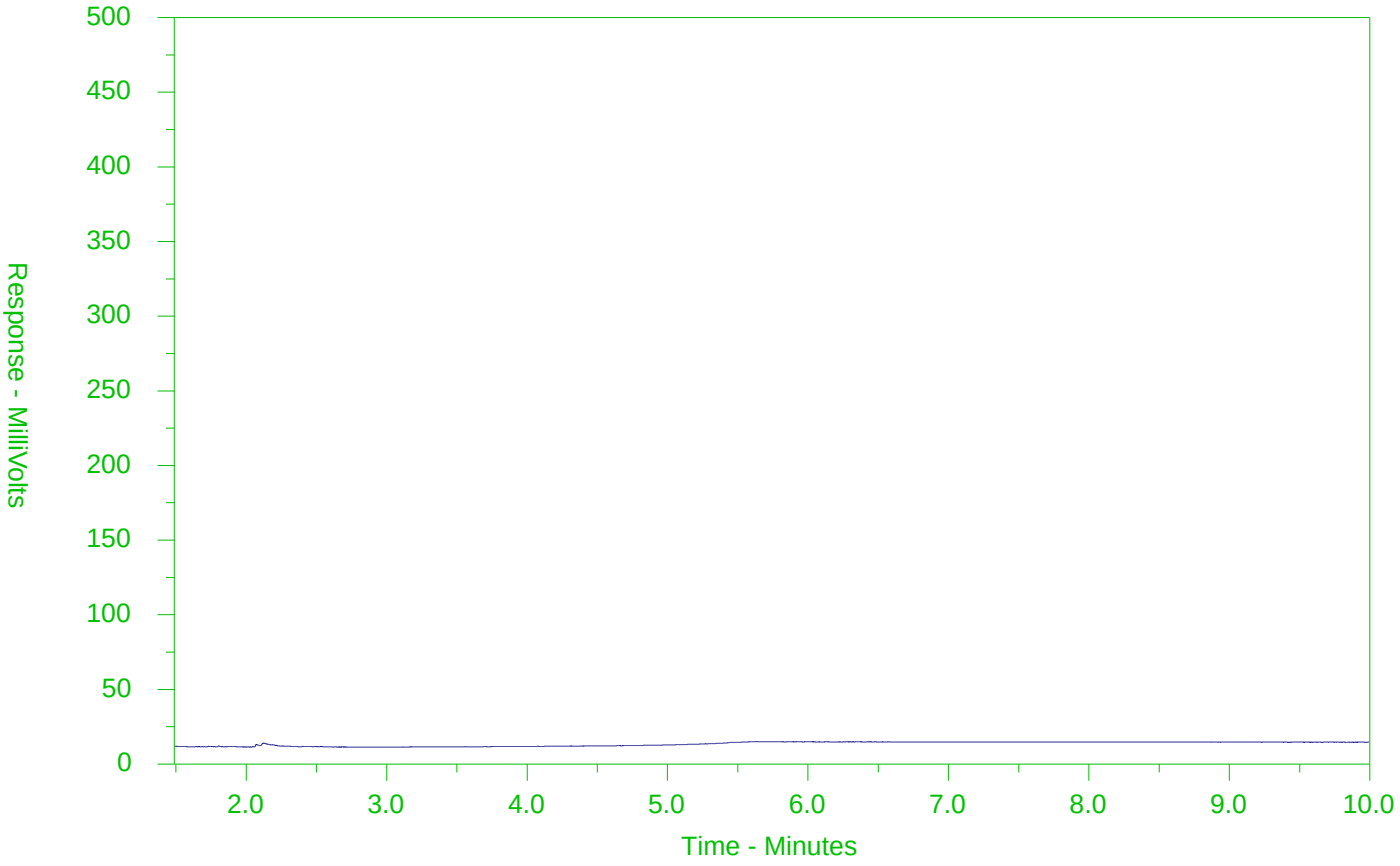
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2205959-002-E601.SG
Client Sample ID: GW-12581540-220617-SB-MW2



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →	← Motor Oils/Lube Oils/Grease →		
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

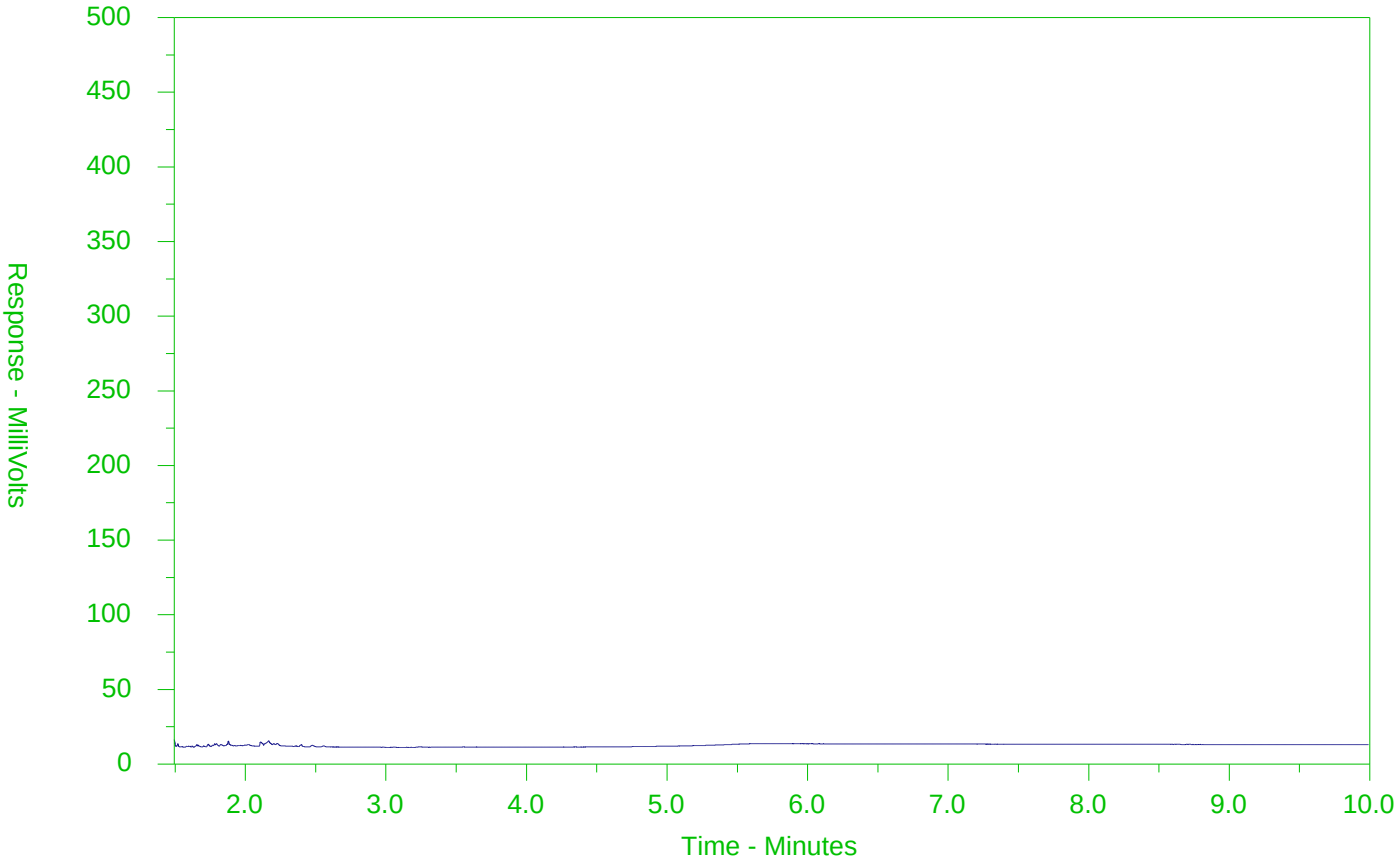
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2205959-003-E601.SG
Client Sample ID: GW-12581540-220617-SB-MW3



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →	← Motor Oils/Lube Oils/Grease →		
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

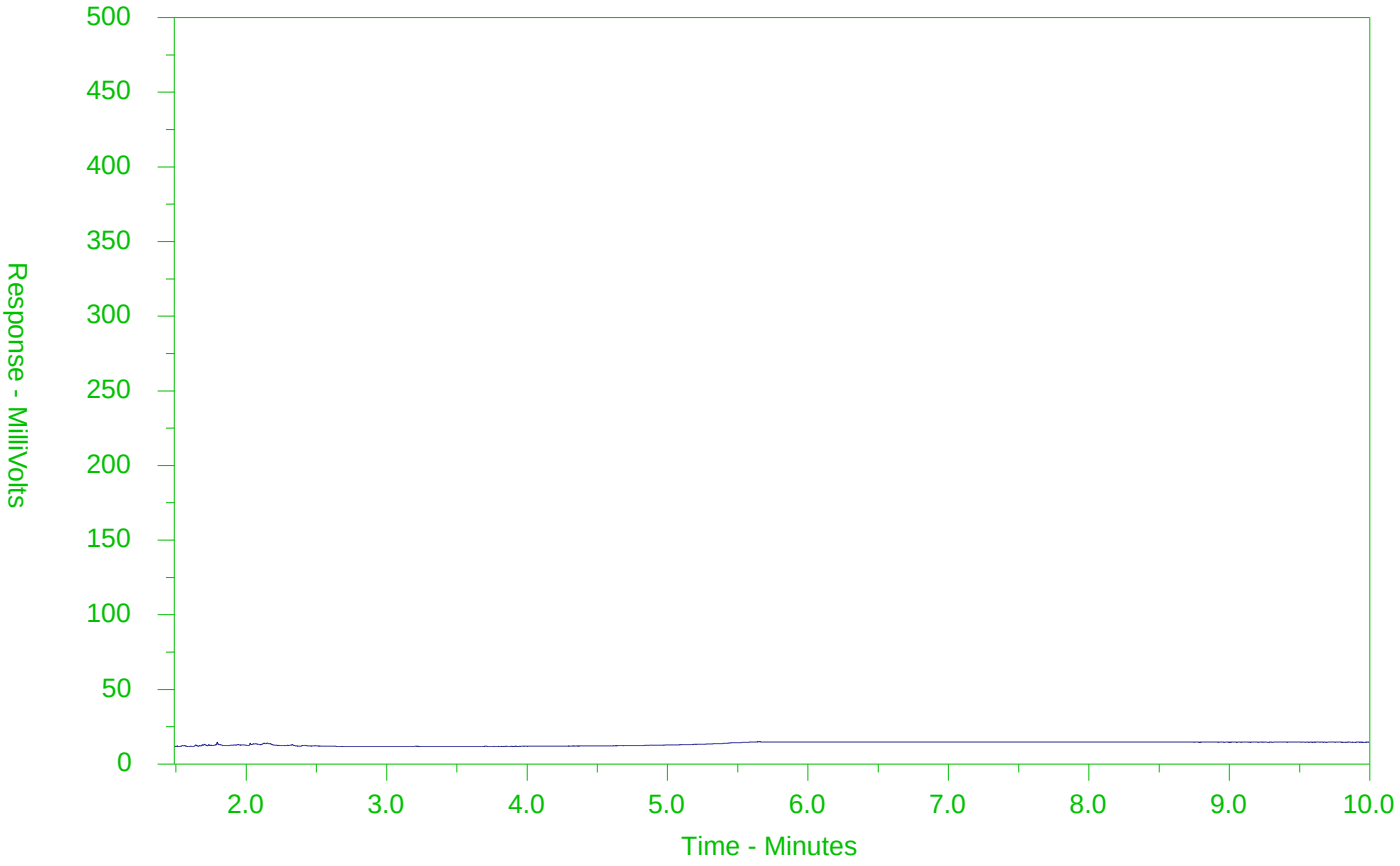
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2205959-004-E601.SG
Client Sample ID: GW-12581540-220617-SB-MW3-DUP



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →	← Motor Oils/Lube Oils/Grease →		
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

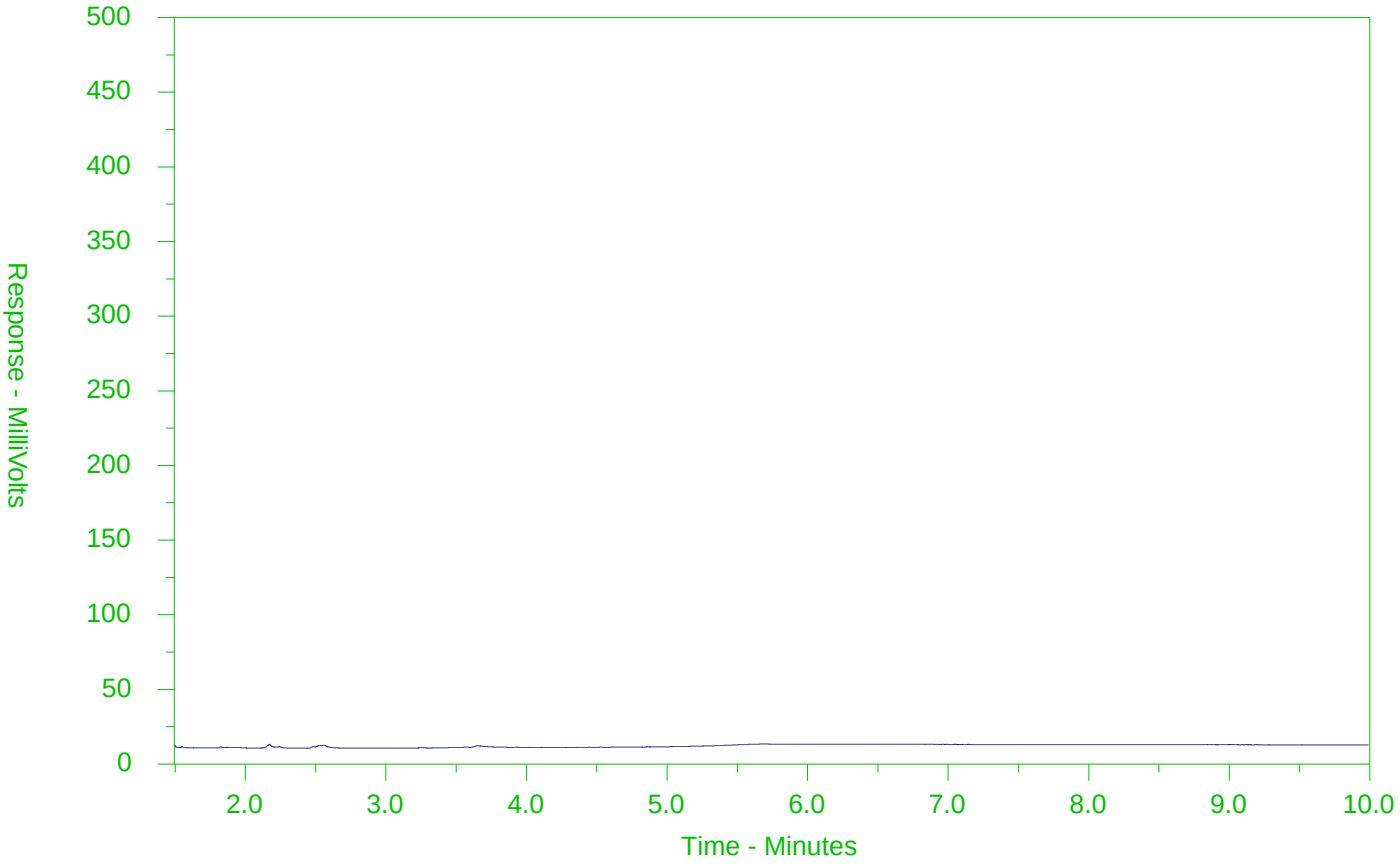
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2205959-005-E601.SG
Client Sample ID: GW-12581540-220617-SB-MW4



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →	← Motor Oils/Lube Oils/Grease →		
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

Chain of Custody (COC) / Analytical Request Form

COC Number: 2

Page

Environmental Division Waterloo

Work Order Reference

WT2205959

ALS www.alsglobal.com

Canada Toll Free: 1 800 668 9878

Telephone : +1 519 886 6910

Report To	Contact and company name below will appear on the final report
Company:	GHD Ltd. (Acct 13791)
Contact:	Jennifer Balkwill
Phone:	519-884-0510
	Company address below will appear on the final report
Street:	455 Phillip St.
City/Province:	Waterloo, ON
Postal Code:	N2L 3X2
Invoice To	Same as Report To ☑ YES ☐ NO
	Copy of Invoice with Report ☐ YES ☑ NO
Company:	GHD Ltd. (Acct 13791)
Contact:	

Reports / Recipients

Select Report Format: ☑ PDF ☐ EXCEL ☐ EDD (DIGITAL)

Merge QC/QCI Reports with COA ☐ YES ☐ NO ☐ N/A

☐ Compare Results to Criteria on Report - provide details below if box checked

Select Distribution: ☑ EMAIL ☐ MAIL ☐ FAX

Email 1 or Fax: jennifer.balkwill@ghd.com

Email 2: See SSOW/PO

Email 3:

Invoice Recipients

Select Invoice Distribution: ☑ EMAIL ☐ MAIL ☐ FAX

Email 1 or Fax: Invoicing-Canada@ghd.com

Email 2:

Turnaround Time (TAT) Requested

☑ Routine [R] if received by 3pm M-F - no surcharges apply

☐ 1 day [P4] if received by 3pm M-F - 20% rush surcharge minim

☐ 2 day [P3] if received by 3pm M-F - 25% rush surcharge mini

☐ 3 day [P2] if received by 3pm M-F - 50% rush surcharge mini

☐ 1 day [E] if received by 3pm M-F - 100% rush surcharge minim

☐ Same day [E2] if received by 10am M-S - 200% rush surcharg

Fees may apply to rush resuests on weekends, statutory holidays routine tests

Date and Time Required for all E&P TATs:

For tests that can not be performed according to the TAT requested, you will be contacted.

Project Information

ALS Account # / Quote #:	
Job #:	12581540
PO / AFE:	735-003274
LSD:	

Oil and Gas Required Fields (client use)

AFE/Cost Center:	PO#:
Major/Minor Code:	Routing Code:
Requisitioner:	
Location:	

ALS Lab Work Order # (lab use only): WT2205959 FH

ALS Contact: Rick H

Sampler: Sam B

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	O.Reg Metals and Inorganics	PAHs(PAH-511-WT)	VOC/PHC(VOC-F1-F4-511-P-WT)	PCBs	VOC.F1 Trip Blank	SAMPLES ON HOLD	EXTENDED STORAGE REQUIRED	SUSPECTED HAZARD (see notes)
	GW-12581540-220617-SB-MW1	17-JUN-22	11:55	WATER	9	X	X	X	X				
	GW-12581540-220617-SB-MW2	17-JUN-22	14:55		9	X	X	X	X				
	GW-12581540-220617-SB-MW3	17-JUN-22	13:30		9	X	X	X	X				
	GW-12581540-220617-SB-MW3-DUP	17-JUN-22	13:30		9	X	X	X	X				
	GW-12581540-220617-SB-MW4	17-JUN-22	16:35		9	X	X	X	X				
	TRIP BLANK	17-JUN-22	00:00		2					X			

SAMPLE RECEIPT DETAILS (lab use only)

Cooling Method: ☐ NONE ☑ ICE ☐ ICE PACKS ☐ FROZEN ☐ COOLING INITIATED

Submission Comments identified on Sample Receipt Notification: ☐ YES ☐ NO

Cooler Custody Seals Intact: ☐ YES ☐ N/A Sample Custody Seals Intact: ☐ YES ☐ N/A

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
				4.6			

Drinking Water (DW) Samples[1] (client use)

Are samples taken from a Regulated DW System? ☐ YES ☐ NO

Are samples for human consumption/ use? ☐ YES ☐ NO

Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)

SHIPMENT RELEASE (client use)

Released by:	Date:	Time:
	06/17/2022	2100

INITIAL SHIPMENT RECEPTION (lab use only)

Received by:	Date:	Time:

FINAL SHIPMENT RECEPTION (lab use only)

Received by:	Date:	Time:
AP	21-6-22	11:30

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

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Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

[1] If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.


GHD