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Hydrogeological Assessment Report 303, 309 and 317 Speedvale Avenue East Guelph, Ontario

Habitat for Humanity Wellington Dufferin Guelph Final Report | Version 00

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Table of Contents

1.	Introduction and Project Background	1
1.1	Background	1
2	Methodology	2
2.1	Borehole Drilling and Monitoring Well Installation	2
2.2	Elevation Survey of Boreholes and Monitoring Wells	3
2.3	Groundwater Level Measurements	4
2.4	Hydraulic Conductivity Test	4
2.5	Groundwater Sampling	4
2.6	Review of Environmental Data Sources	2
2.7	Estimation of Groundwater Dewatering Rates	2
3	Description of Subsurface Conditions	5
3.1	Regional Geology	5
3.2	Site-Specific Stratigraphy	5
3.3	Hydrogeology	5
4	Assumed Construction-Related Temporary Dewatering Program	8
5	Groundwater Sampling Results	10
6	Potential for Possible Mobilization of Contaminants	11
7	Evaluation of Impacts	12
7.1	Private Water Supply	12
7.2	Local Sewage Works	13
7.3	Existing Water Takings	13
7.4	Municipal Water Supply	14
7.5	Surface Water and Natural Functions of the Ecosystem	14
7.6	Geotechnical Opinion Regarding the Potential for Settlements	14
8	Discharge Plan	14
8.1	Description of Water Taking, Water Use, and Return to Environment	15
8.2	Groundwater Discharge Method	15
8.3	Off-Site Removal of Discharge	15
8.4	Discharge Quantity	15
8.5	Sediment and Erosion Control	16
8.6	Discharge Quality	16

9	Conclusions and Recommendations	16
Refe	rences	19

Tables

Table 2-1 Table 3-1	Summary of the Geodetic and Elevation Survey Results for Completed Boreholes	3
	Investigation	6
Table 3-2	Summary of Estimated Hydraulic Conductivity Values	
Table 4-1	Estimates of Groundwater Taking Volumes	9
Table 5-1	Summary of Parameter Exceedances for Tested Groundwater Samples10)
Table 6-1	Summary of Potential Concerns Related to Groundwater Contamination1	1
Table 7-1	Summary of Active PTTWs within 500-m of Project Alignment13	3

APPENDICES

APPENDIX A	FIGURES
APPENDIX B	BOREHOLE AND MONITORING WELL LOGS
APPENDIX C	HYDRAULIC CONDUCTIVITY TEST RESULTS
APPENDIX D	CONSTRUCTION-RELATED GROUNDWATER INFLOW ESTIMATES
APPENDIX E	RE-ISSUED FOR SPA PRE-CONSULTATION DRAWINGS
APPENDIX F	CERTIFICATES OF ANALYSIS (GROUNDWATER)
APPENDIX G	GRAIN SIZE DISTRIBUTION TEST RESULTS
APPENDIX H	ECOLOG ERIS REPORT
APPENDIX I	STATEMENT OF LIMITATIONS

1. Introduction and Project Background

Englobe Corp. ("Englobe") was retained by Habitat for Humanity Wellington Dufferin Guelph ("the Client") to carry out a hydrogeological investigation. The purpose of the investigations was to support the design of a proposed six (6) storey residential building with surface parking ("the Project") at the property located at 303, 309 and 317 Speedvale Avenue East in Guelph, Ontario ("the Site"). The location of the Site is shown on the attached Site Location Map in **Appendix A, Figure 1**. The investigation was conducted as per Englobe's proposal, dated August 21, 2023, and as authorized by the Client on August 23, 2023.

The objectives of Englobe's hydrogeological investigation were to assess the groundwater conditions at the Site and to provide a construction (temporary) dewatering estimate to evaluate the potential need for an Environmental Activity and Sector Registry (EASR) for dewatering rates exceeding 50,000 L/day but not exceeding 400,000 L/day or Permit To Take Water (PTTW) application for dewatering rates exceeding rates exceeding 400,000 L/day for construction of the proposed building.

This report has been prepared specifically and solely for the Project, as described herein. It presents the factual results of the field investigation and provides temporary dewatering estimates based on the assumed construction methodologies and construction duration.

The hydrogeological assessment results are presented in Sections 3, 4, 5, 6, and 7 of this report.

This Hydrogeological Assessment Report has been prepared for the sole use of Habitat for Humanity Wellington Dufferin Guelph. Any use or reliance on this report by another party is the responsibility of such party. This report is also subject to the statement of limitations included in **Appendix I**.

1.1 Background

The Site is made up of two parcels of land, located at 303, 309 and 317 Speedvale Avenue East. The property is accessed via asphalt paved driveways off Speedvale Avenue East and Manhattan Court. Asphalt paved surface parking / driveway areas are located on the southeast and southwest portions of the property. Surrounding land uses consist of commercial properties to the north on the corner of Speedvale Avenue East and Stevenson Street North and predominantly residential properties to the west and south. To the east of the Site is an area of commercial, institutional and residential use, including institutional properties (i.e. a place of worship and a public school) and condominium complexes. Directly adjacent to the Phase One Property are residential properties to the north, west and south and a dentist to the east.

Englobe completed a Phase One and Phase Two Environmental Site Assessment for the Site in support of the Project. The Phase One and Phase Two ESAs were documented within the following reports:

- Phase One Environmental Site Assessment: 303, 309, and 317 Speedvale Avenue East, Guelph, Ontario. Draft Report. Prepared for Habitat for Humanity Wellinton Dufferin Guelph. Dated August 17, 2023;
- Phase Two Environmental Site Assessment: 303, 309, and 317 Speedvale Avenue East, Guelph, Ontario. Draft Report. Prepared for Habitat for Humanity Wellinton Dufferin Guelph. Dated November 10, 2023.

Englobe also understands that CMT Engineering Inc. ("CMT") has completed a Geotechnical Field Investigation at the Site and prepared a Geotechnical Investigation Report ("CMT Geotechnical Report"), provided to Englobe for review, documented within the following report:

Geotechnical Investigation, Proposed Building - 303, 309, 317 Speedvale Avenue East, Guelph, Ontario. CMT Project 23-399.R01. Prepared for Habitat for Humanity Guelph-Wellington, prepared by CMT Engineering Inc., dated August 3, 2023.

The results of Englobe's hydrogeological investigation for the proposed building are presented herein.

It is Englobe's understanding that the Site is currently developed with four (4) building structures consisting of one (1) commercial office building, one (1) commercial (formerly residential) massage therapist office, and one (1) private residential dwelling with one (1) detached garage structure.

Englobe was provided the following architectural drawing set related to the proposed project:

Speedvale Affordable Housing, Manhattan Court & Speedvale Ave E, Guelph, ON. Architectural Drawing Set, Sheet Number A1.00 through A4.02. Prepared by Newton Group Ltd. Re-Issued for SPA Pre-Consultation. Dated December 19, 2023 (hereinafter the "Architectural Design Drawings").

Based on the Architectural Design Drawing, Englobe understands that the proposed project includes the construction of a six (6) storey residential building with an at grade basement, and surface parking on the south eastern portion of the Site. The Architectural Design Drawings list the basement elevation at 332.7 metres above mean sea level (masl), however it also depicts portions of the building foundation extending to depths below this elevation. For the purposes of this hydrogeological assessment, it has been assumed that the bottom elevation of the building foundation and footings will be no greater than 4 m below the indicated basement elevation of 332.7 masl.

2 Methodology

The hydrogeological assessment completed at the Site included drilling five (5) boreholes, all of which were completed as monitoring wells, collecting select groundwater samples for laboratory analysis, completing single-well response hydraulic conductivity tests, completing surveys of monitoring well and groundwater level elevations, procurement and review of an EcoLog[™] Environmental Risk Database search, and estimation of temporary dewatering requirements. The methodologies and procedures applied to perform these key hydrogeological evaluation tasks are described in this Section.

2.1 Borehole Drilling and Monitoring Well Installation

Before carrying out the field investigation, Englobe obtained public utility locates (through Ontario One Call) for the utility clearances at each borehole location. Englobe then marked out the proposed borehole locations at the Site and obtained private utility locates for the utility clearances at each borehole location. A total of three (3) boreholes (MW23-01 through MW23-03) were advanced as part of the Phase Two ESA, and two (2) boreholes (MW23-04 and MW23-05) were advanced as part of the Hydrogeological Investigation at the Site on September 19 and 20, 2023 to maximum depths ranging from 6.1 to 7.6 mbgs. All five (5) boreholes (MW23-01 through MW-23-05) were subsequently instrumented as groundwater monitoring wells.

All five (5) boreholes were advanced by means of a track-mounted Geoprobe® direct push soil coring drilling rig equipped with dual tube sampling equipment. A hollow stem auger (HSA) was used in conjunction with

this system for installation of monitoring wells. The drilling equipment was supplied and operated by Direct Environmental Drilling Inc. (DED) of London, Ontario, an MECP licensed well drilling contractor. The specialist drilling sub-contractors operated the rigs under the full-time supervision of a Englobe Personnel. Representative soil samples were collected from within each borehole. All collected soil samples were logged in the field for texture, moisture and visual appearance.

Monitoring wells were installed all five (5) of the open boreholes (MW23-01 through MW23-05) for long term groundwater monitoring and this hydrogeological evaluation. The monitoring wells were constructed using Schedule 40, 50.8-mm diameter polyvinyl chloride (PVC) casings with a 0.254-mm machine-slotted screen. The well screen pipes were 3.0 m long and installed with an appropriate length of solid PVC riser pipe with threaded joint connections extending to grade. A sand-pack consisting of clean silica sand was then placed within the annulus space surrounding the screened section of the wells and to a depth of approximately 0.3 m above the well screen. Bentonite hole plug was placed from the top of the sand layer to ground surface to minimize the potential for cross-contamination from other permeable sublayers. A locking J-Plug cap was placed at the top of each well pipe, and a steel monument-style cover was cemented at surface to protect the wells. No glues or lubricants were used in the construction of the monitoring wells, and new disposable nitrile gloves were donned prior to the handling of the well materials for each monitoring well. A summary of the monitoring well screened intervals is presented in **Section 3.3** in **Table 3.1** and on the attached Monitoring Well Logs, provided in **Appendix B**.

Monitoring well locations are shown in **Figure 2** provided in **Appendix A**. Monitoring well construction details are presented schematically on the monitoring well logs provided in **Appendix B** of this report.

2.2 Elevation Survey of Boreholes and Monitoring Wells

Englobe completed a geodetic elevation survey of the boreholes and monitoring wells at the Site using a Geneq[™] Model SXBlue Global Navigation Satellite System (GNSS) rover. The monitoring well locations were referenced to Universal Transverse Mercator North American Datum of 1983 (UTM NAD83) coordinates (zone 17T). Geodetic ground surface elevations were established based on GNSS and local base station telemetry.

The ground surface elevations obtained for each monitoring well advanced as part of Englobe's investigation are shown in **Table 2-1** and on the attached monitoring well logs, provided in **Appendix B**.

Description	Surface Elevation (masl ^[1])	Northing (m ^[2]) ^[3]	Easting (m ^[2]) ^[3]
MW23-01	334.11	4823820.2	559842.3
MW23-02	333.38	4823830.9	559854.2
MW23-03	332.84	4823820.5	559863.5
MW23-04	332.49	4823794.8	559861.0
MW23-05	331.44	4823790.8	559813.0

Table 2-1 Summary of the Geodetic and Elevation Survey Results for Completed Boreholes

^[1] Metres above sea level.

^[2] Metres.

^[3] UTM NAD 83, Zone 17.

2.3 Groundwater Level Measurements

During Englobe's field investigation, the depth to groundwater was measured in each borehole as drilling progressed and upon completion. The groundwater depths were measured again by an Englobe personnel on September 21, 2023, September 29, 2022, and October 3, 2023 for each of the groundwater monitoring wells installed as part of the investigation.

Groundwater level measurements involved taking both water level and well depth measurements from the top of the well casing. Groundwater level readings were recorded to the nearest 0.01 m and converted into geodetic head elevations.

The water levels were measured using a Solinst Canada Ltd. Model 122 oil/water interface meter which was also used to confirm the presence/absence and thickness of light / dense non-aqueous phase liquids (LNAPLs / DNAPLS) that may potentially be residing on the surface of the groundwater table or the bottom of the well, respectively. The results regarding the presence or absence of free product are presented in **Section 5** of this report. The electronic interface probe was decontaminated before the collection of each water level measurement.

2.4 Hydraulic Conductivity Test

Short duration rising head hydraulic conductivity tests ("K-tests") were used to estimate the Site-specific *in-situ* horizontal hydraulic conductivity of the geological materials intercepted at the well screens of all monitoring wells with the exception of MW23-02 on September 22, 2023. Each of the K-tests were performed by inserting a solid slug into each well and recording the water level as it receded (falling head). An additional K-test was performed by removing the solid slug and recording the water level as it recovered (rising head). Water levels were recorded both electronically with a datalogger and manually with a water level probe during the recovery phases of the K-tests.

In addition to the hydraulic conductivity estimates from the short duration falling head test data, the grain size distribution data for the following soil samples were analyzed using the HydrogeosieveXL tool to estimate hydraulic conductivity:

- MW23-01 SS9 (6.10 6.71 mbgs);
- MW23-02 SS7 (4.57 5.33 mbgs);
- MW23-03 SS8 (5.18 6.10 mbgs);
- MW23-04 SS7 (4.57 5.33 mbgs); and,
- > MW23-05 SS8 (5.18 6.10 mbgs).

The HydrogeoSieveXL calculates hydraulic conductivity values from the grain-size distribution curves and accounts for the characteristics of the porous medium (aquifer material) and temperature dependent properties (density and viscosity) of groundwater (Devlin, 2015).

The *in-situ* horizontal hydraulic conductivity test results and the calculated HydrogeoSieveXL results are provided in **Appendix C**.

2.5 Groundwater Sampling

Prior to groundwater sampling, monitoring wells were purged of three (3) casing volumes of water on September 21, 2023 to remove any groundwater impacted by drilling activities and to reduce the amount of

sediment within the wells. Purging was accomplished using a dedicated Waterra[™] inertial pump with a 12.7mm diameter foot valve and tubing.

On September 29, 2023, a groundwater sample was collected from monitoring wells MW22-01, MW22-03 MW22-04 and MW22-05. Prior to groundwater sampling, the monitoring wells were purged by applying low-flow techniques and a peristaltic pump (target flow rate approximately 150 mL/min) equipped with a flow-through cell to allow for measurements of water quality parameters using a Horiba U-50 multi-sensor water quality meter. Englobe monitored water quality parameters including pH, specific conductivity, dissolved oxygen (DO), temperature and oxidation reduction potential (ORP) and recorded each reading approximately every 2 to 3 minutes during purging. When three consecutive field parameters readings stabilized, specifically focusing on temperature, conductivity, and pH, were within +/- 0.5°C, +/- 3% and +/- 0.1 pH units, of each other, respectively, the flow-through cell was removed, and the groundwater sample was collected directly from the dedicated tubing into appropriate laboratory-supplied containers.

The groundwater sample was submitted to ALS Environmental (ALS) for laboratory analytical testing. ALS is certified by the Canadian Association for Laboratory Accreditation Inc. (CALA). The groundwater The groundwater samples were analyzed for one or more following chemical parameters:

- Petroleum hydrocarbon (PHC) fractions F1 to F4;
- Volatile organic compounds (VOCs);
- Dissolved metals and inorganics; and,
- > The parameters listed within the City of Guelph Sewer Use By-law No. 15202 (1996)

The results of the groundwater analytical testing are discussed in **Section 5** of this report, including a comparison to the limits described in the City of Guelph Sewer Use By-law No. 15202 (1996), and the MECP Table 2 Full Depth Generic Site Condition Standards in a Potable Ground Water Condition (MECP Table 2 SCS).

The laboratory Certificates of Analysis for the submitted groundwater sample is provided for reference in **Appendix F**.

2.6 Review of Environmental Data Sources

Englobe retained the services of EcoLog[™] Environmental Risk Information Services (ERIS) Ltd. to conduct a search of databases from federal, provincial, and private sources for the Site These databases may contain environmental and historical land-use-related information about the Site and its neighbouring properties, such as reported spills, storage tanks, Certificates of Approval, Environmental Registry, Inventory of PCB Storage Sites, etc. The search area used by EcoLog was a 250-m radius from the perimeter of the Site. Only the databases that contained records and information regarding potential sources of contamination or spill events on the Site and surrounding properties within the search radius are discussed in **Section 6** below. The EcoLog ERIS report is provided for reference in **Appendix H**.

2.7 Estimation of Groundwater Dewatering Rates

This section presents the methodology employed in estimating groundwater dewatering rates as well as the potential radius of drawdown during temporary dewatering. Based on the Site conditions and the proposed construction activities, groundwater is expected to be encountered in excavations. Based on the results of the field investigation and data analysis, an analytical approach based on the Dupuit-Forchheimer

approximation for an unconfined aquifer (Powers et al., 2007) was used to estimate construction-related groundwater dewatering volumes.

Building Foundation Excavation

To estimate construction-related groundwater dewatering volumes, it is assumed that square excavations would be employed for the excavations associated with the building foundation. Based on the assumed excavation dimensions of the building foundation, and the assumption that radial groundwater flows from the excavation, an estimate of groundwater inflows to the planned excavation can be obtained using the following equation:

$$Q = \frac{\pi K (H^2 - h_w^2)}{\ln \left(\frac{R_O}{r_w}\right)}$$

Where:

Q = Groundwater extraction rate in m³/s

K = Hydraulic conductivity in m/s

H = Initial groundwater level (m)

 h_w = Groundwater level at the base of the excavation (m)

 R_0 = Radius of Influence for a radial flow structure (m)

r_w = Equivalent radius of the well (m)

The lateral extent of groundwater drawdown or radius of influence associated with groundwater dewatering was estimated using the groundwater flow model and the Sichart and Kryieleis relationship (Powers et al., 2007):

$$R_{o}$$
=3000(H-h_w) \sqrt{K}

Where:

Ro = Radius of influence for a radial flow structure (m)

K = Hydraulic conductivity in m/s

H = Initial groundwater level (m)

h_w = Groundwater level at the base of excavation (m)

Based on the estimated value of R_o , the equivalent radius of influence for a point source can be calculated based on the following equation:

$$r_w = \sqrt{\frac{ab}{\pi}}$$

Where:

a = Length of the excavation area (m)

b = Width of the excavation area (m)

The values of temporary construction-related groundwater dewatering volumes were estimated using the preceding analytical approximations and were based on the assumed construction methodologies, sequencing, and duration for the planed excavation.

Further, the preceding analytical approximation assumes an unlined vertically walled excavation and that the groundwater will be drawn down to 0.5 m below the base of the excavation.

During construction, the contractor will have to manage water that accumulates in the open excavation during a rainfall event. These incidental precipitation volumes were calculated volumetrically based on a review of Intensity-duration-frequency (IDF) curves (Ontario Ministry of Transportation, November 2023) for the Site. The analysis determined the rainfall over 24 hours for 5-year, 10-year, 25-year, 50-year, and 100-year events was 79.4 mm, 91.9 mm, 108.0 mm, 119.7 mm, and 131.4 mm, respectively. A value of 131.4 mm was used to determine the incidental precipitation volumes to the proposed excavations.

The purpose of using the highest observed one-day rainfall event in the last 100 years is to ensure that the construction contractor is prepared to handle a similar rainfall event during construction without impeding construction progress. Therefore, the daily maximum pumping rates include groundwater inflow volume estimates from the Dupuit-Forchheimer approximations plus the incidental precipitation volume estimates.

The following general assumptions were made when estimating temporary groundwater dewatering rates during construction:

- It was assumed that the hydraulic conductivity of the geological materials is the same throughout the Site and does not vary by location (isotropic conditions).
- Groundwater dewatering estimates presented in this report do not account for artesian conditions requiring pressure relief, potential hydraulic uplift and associated aquifer depressurisation.
- It was assumed that the contribution of the subject groundwater flow regime from the nearby surface water bodies is negligible.
- Groundwater inflow rates were estimated based on the proposed retrofit being a stand-alone project, with no other concurrent groundwater pumping or dewatering activities in the area.
- It was assumed that the construction dewatering will occur sequentially, with only one open excavation open at a given time.
- The extent of construction dewatering will vary depending on the type of material encountered in the
 actual excavations, excavation dimensions, the depth to groundwater, and the required depth of
 dewatering. The groundwater dewatering estimates presented in this report are based on the
 assumptions described herein regarding the excavation dimensions, construction method,
 groundwater levels, and hydraulic conductivity.
- Contractors bidding on the construction and dewatering services should make their own interpretation of the information presented in this report and other project documents, including bid design drawings, and draw their own conclusions as to how the conditions may affect their work or design.
- Changes in the design including excavation dimensions, changes in the location of proposed structures, construction methods and sequencing will require the recalculation of estimates presented in this report.
- Should significant water-bearing zones be encountered during the excavations, Englobe recommends

that supplementary hydraulic conductivity testing of the newly encountered water-bearing permeable materials be completed to update the groundwater inflow estimates presented in this report.

3 Description of Subsurface Conditions

3.1 Regional Geology

The regional surficial geology in the area of the Site is described as stone-poor, sandy silt to silty sandtextured till (Ontario Geological Survey, 2010). The Site is located within the physiographic region known as the Guelph Drumlin Field (Chapman and Putnam, 1984) and includes physiographic landforms of drumlins (Chapman and Putnam, 2007). The bedrock geology consists of sandstone, shale, dolostone and/or siltstone of the Guelph Formation (Ontario Geological Survey, 2011). Based on OGS Drift thickness mapping, bedrock is not expected to be encountered at the Site until a depth of at least 8.9 to 32.6 mbgs (Ontario Geological Survey, 2006).

3.2 Site-Specific Stratigraphy

Details of the subsurface soil conditions encountered in the five (5) boreholes advanced as part of Englobe's Hydrogeological Assessment are presented on the borehole and monitoring well logs in **Appendix B**. A general overview of the soil stratigraphy is provided in this section.

Considering the results of the field and laboratory investigations, the following descriptions provide a generalized overview of the different subsoils encountered in the boreholes advanced at the Site:

- Asphalt: Asphalt was encountered at the surface within boreholes MW23-04 and MW23-05. The thickness of the asphalt ranged from 100 to 127 mm.
- **Topsoil:** Loose, silty, organic topsoil was encountered at the surface within boreholes MW23-01, MW23-02 and MW23-03. The thickness of the topsoil ranged from 100 to 305 mm.
- Fill: Fill materials consisting of brown sand and gravel with trace silt, brown silty sand, or silt at depths ranging between 0.8 to approximately 3.0 m mbgs were encountered in MW23-01 and MW23-04.
- Native Sand and Silt: In all borehole locations, the fill materials or topsoil were underlain by brown to grey sand with trace to some silt and gravel to sand and silt with some clay and trace gravel to the final extent of the excavations at approximately 6.1 mbgs.

3.3 Hydrogeology

During Englobe's field investigation at the Site, groundwater was encountered during the advancement of MW23-01, MW23-03, MW23-04, and MW23-05 on September 19th, and 20th, 2023. Follow-up measurements of the groundwater depths at the installed monitoring wells were completed on September 21st, 22nd, 29th, and October 4th, 2023. **Table 3-1** summarizes the follow-up groundwater level readings taken at the monitoring wells installed during Englobe's field investigation.

It should be noted that the groundwater levels are transient and tend to fluctuate with the seasons and periods of precipitation, sometimes by up to 2 m or more. The groundwater conditions encountered during this investigation may not, therefore, be representative of the groundwater conditions during the construction period. Therefore, additional groundwater monitoring is recommended before the start of construction.

Borehole and monitoring well locations are shown in **Figure 2**, provided in **Appendix A**. Borehole and monitoring well logs are provided in **Appendix B** of this report.

Borehole ID	Approx. Riser Screened Screened Ground Height Interval Depth Stratigraphic		Ар		oundwater Le <i>I masl^[1]</i>)	vel		
Borenoie ID	Elevation (masl ^[1])	(m ¹⁴)	Interval Depth (mbgs ^[9]) ^[4]	Stratigraphic Layer(s) ¹⁴	Sept. 21, 2023	Sept. 22, 2023	Sept. 29 2023	Oct. 3, 2023
MW23-01	334.113	0.84	4.57 - 7.62	Silt to Silty Sand	6.64 / <i>327.47</i>	6.66 / <i>327.45</i>	6.85 / <i>327.26</i>	6.77 / <i>327.35</i>
Average Grou	indwater Level	for MW23-0	1 (mbgs ^[9] / <i>mas/^l</i>	ማ		6.73 /	327.38	
MW23-02	333.381	0.945	3.81- 6.86	Silt to Sandy Silt	Dry / N/A	Dry / N/A	Dry / N/A	Dry / <i>N/A</i>
Averag	Average Groundwater Level for MW23-02 (mbgs ^[5] / mas/ ^[7])				Dry /	N/ <u>A^[6]</u>		
MW23-03	332.839	0.945	3.81-6.86	Silt to Sandy Silt	5.37 / <i>327.47</i>	5.37 / <i>327.47</i>	5.45 / <i>327.39</i>	5.49 / <i>327.35</i>
Average Grou	indwater Level	for MW23-0	3 (mbgs ^[9] / <i>mas/^l</i>	ろ	5.42 / 327.42			
MW23-04	332.493	-0.19	3.05-6.10	Silt to Silt with trace sand, trace gravel to Silty Sand	5.24 / <i>327.25</i>	5.25 / <i>327.24</i>	5.12 / <i>327.183</i>	5.37 <i>1</i> 327.12
Averag	e Groundwater	Level for M	W23-04 (mbgs ^[9] /	masl ^[1])	5.25 / 327.20			
MW23-05	331.444	-0.16	3.05-6.10	Silt to Silty Sand to Sand, some Silt	4.60 / <i>326.84</i>	4.62 / <i>326.83</i>	4.66 / <i>326.78</i>	N/ <u>A</u> [5]
Averag	e Groundwater	Level for M	W23-05 (mbgs ^[9] /	masl ^[1])	4.63 / <i>326.81</i>			
Overall Average Groundwater Level (mbgs ^[5] / mast ^[1])			5.51 / <i>327.20</i>					

Table 0.4	0	e of Follow up	One un deveter	Lovel Observatio	wa fuana Englaba'	E Cield Investigation
Table 3-1	Summary	/ of Follow-up	Groundwater	Level Observatio	ons from Englobe	's Field Investigation

^[1] Metres above sea level.

- ^[2] Metres.
- ^[3] Metres below ground surface.
- ^[4] Screened intervals and Screened Stratigraphic Layer(s) were based on the Englobe 2023 Borehole Logs.
- ^[5] Not Measured.
- ^[6] Not included in the average groundwater level at the Site.

Measured groundwater levels varied from 4.60 m to 6.85 mbgs, with measured groundwater elevations from 326.78 to 327.47 masl across all the measuring events. MW23-02 was dry across all measuring events.

The nearest water body to the Site is Speed River located approximately 810 m to the west of the Site. Speed River flows from Guelph Lake, located approximately 3.0 km northeast of the northeastern corner of the Site. It is thus anticipated that the regional groundwater flow direction is to the southwest towards the Speed River. It is noted, however, that local groundwater flow can be influenced by surface topography and subsurface utilities and structures. Groundwater levels from W0000024-2, the nearest monitoring well that is part of the Provincial Groundwater Monitoring Network (PGMN) Program screened at a similar depth and in similar overburden materials as Englobe's installed monitoring wells at the Site, were also reviewed for the period of available PGMN well data. Direct observation of the hydraulic response in the surficial

geological materials (i.e., silt) to rainfall events with higher than a 10-year return period is not possible from available PGMN data. A review of temporal changes in groundwater levels during the wet and dry seasons in the period of May 2001 through to October 2018 indicated that the largest change in groundwater level due to the wet weather conditions occurred in 2002 with a + 1.39 m difference. Therefore, high groundwater levels and inflows should be anticipated during wet weather conditions.

Hydraulic conductivity values were estimated for the stratigraphic units within the screened intervals of MW23-01, MW23-03 through MW23-05 based on the *in-situ* hydraulic conductivity testing carried out on September 22, 2023.

The hydraulic conductivity test results are provided in Appendix C and are summarized in Table 3-2 below.

Table 3-2	Summary of Estimated Hydraulic Conductivity Values
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Borehole / Sample ID	Screened Stratigraphic Layer(s) ^[2]	Test Method	Data Analysis Method	Hydraulic Conductivity (m/s ^{p)})			
In-Situ Hydraulic Conductivity Test Results							
MW23-01	Cilture Cilture Conned	Slug (Solid), Falling Head	Dagan (1978) ^[1]	7.85 x 10 ⁻⁷			
Screened Interval (4.59 - 7.56 mbgs)	Silt to Silty Sand	Slug (Solid), Rising Head	Dagan (1976)	8.03 x 10 ⁻⁷			
MW23-03		Slug (Solid), Falling Head	D (1070)[1]	4.38 x 10 ⁻⁷			
Screened Interval (2.98 - 5.98 mbgs)	Silt to Sandy Silt	Slug (Solid), Rising Head	Dagan (1978) ^[1] –	1.15 x 10 ⁻⁶			
MW23-04	Cilt to Cilty Card	Slug (Solid), Falling Head	Dagan (1978) ^[1]	8.44 x 10 ⁻⁷			
Screened Interval (3.15 - 6.15 mbgs)	Silt to <u>Silty</u> Sand	Slug (Solid), Rising Head		7.28 x 10 ⁻⁷			
MW23-05	Silt to Sand with some	Slug (Solid), Falling Head	Dagan (1978) ^[1] -	7.20 x 10 ⁻⁶			
Screened Interval (3.16 - 6.16 mbgs)	Silty Sand	Slug (Solid), Rising Head	Dagan (1976) -	6.11 x 10 ⁻⁶			
	Geometric Mean of In-Sit	tv Hydraulic Conductivity (m/s)	1.31 x 10 ⁻⁶			
	Grai	n Size Hydraulic Conducti	vity Test Results				
MW23-01 SS9 (6.10 - 6.71 mbgs)	Sand and Silt, some Clay, trace Gravel	Grain size data	Devlin (2015) ^[2]	1.75 x 10 ⁻⁷			
MW23-02 SS7 (4.57 - 5.33 mbgs)	Sand and Silt, some Gravel, trace Clay	Grain size data	Devlin (2015) ^[2]	7.52 x 10 ⁻⁷			
MW23-03 SS8 (5.18 - 6.10 mbgs)	Sandy Silt, Traces of Gravel and Clay	Grain size data	Devlin (2015) ^[2]	1.55 x 10 ⁻⁷			
MW23-04 SS7 (4.57 - 5.33 mbgs)	Sand and Silt, traces of Gravel and Clay	Grain size data	Devlin (2015) ^[2]	6.33 x 10 ⁻⁷			

Borehole / Sample ID	Screened Stratigraphic Layer(s) ^[2]	Test Method	Data Analysis Method	Hydraulic Conductivity (m/s ¹⁹¹)	
MW23-05 SS8 (5.18 - 6.10 mbgs)	Silty Sand, trace Clay	Grain size data	Devlin (2015) ^[2]	1.22 x 10 ⁻⁵	
Geom	6.91 x 10 ⁻⁷				
Overall Mean	Overall Mean of the Geometric Means of <i>In-Situ</i> and Grain Size Analysis Hydraulic Conductivities (m/s)				

- ^[1] Hydraulic conductivity data analysis was carried out using AQTESOLV for Windows, Version 4.50.002 (HydroSOLVE, Inc. 2007).
- ^[2] Analyzed using the HydrogeosieveXL tool to estimate hydraulic conductivity (Devlin, 2015). Based on the geometric mean of the dataset meeting acceptability criteria.

4 Assumed Construction-Related Temporary Dewatering Program

To facilitate the construction of the proposed development, excavations extending below the observed groundwater level are anticipated based on Englobe's understanding from the Re-Issued For SPA Pre-Consultation Drawings provided by the Client (dated December 19, 2023), included in **Appendix E**. The construction activities anticipated to have excavations extending below the observed shallow groundwater level are as follows:

• **Building Excavation:** Based on the information provided by the Client and the Architectural Drawing Set, the foundation of the building is expected to have a bottom elevation of no lower than approximately 328.7 masl. The existing ground surface ranges from approximately 331.4 to 334.1 masl. Based on the Architectural Design Drawings, the excavation has been assumed to be approximately 46.0 m in length, 20.0 m in width, with a minimum elevation of approximately 328.7 masl.

It should be noted that the construction-related temporary dewatering estimates are based on the Issued For SPA Pre-Consultation Drawings provided to Englobe. It is recommended that Englobe be retained to review any final Issued for Construction design packages for the Project to evaluate if recalculation of temporary dewatering estimates may be required.

Temporary and localized groundwater dewatering is anticipated to be required to complete construction. It is assumed that groundwater will be lowered to 0.5 m below the base of the excavation bottom.

Groundwater inflow rates for two separate scenarios (average conditions case and assumed worst-case case scenario) were estimated based on the Dupuit-Forchheimer approximation for an unconfined aquifer and the following assumptions and parameters:

- The excavations for the above-noted construction works are assumed to be undertaken sequentially, with only one excavation open at a time;
- For the average conditions case scenario, the geometric mean in-situ hydraulic conductivity value (1.31 x 10⁻⁶ m/s) from the hydraulic conductivity estimates completed by Englobe was applied;
- For the assumed worst-case scenario, it was assumed that hydraulic conductivity of the geological materials would be the highest hydraulic conductivity value estimated from all test method during this investigation (i.e. 1.22 x 10⁻⁵ m/s);

- For the average conditions scenario, the groundwater level in the vicinity of the proposed excavations was assumed to be the average elevation of all groundwater level readings taken at the monitoring wells located within the area of the proposed excavations (327.20 masl), as summarized in Table 3-1 above.
- For the assumed worst-case scenario, the highest observed groundwater level elevation in the vicinity of the proposed excavations was assumed to be the highest groundwater levels measured at the Site (327.47 masl) plus a 1.39 m increase in the water level (328.86 masl) in response to a change to wet weather conditions, based on the reviewed PGMN data.
- It was assumed that the depth to an underlying aquitard was approximately 10 mbgs, which is the approximate depth to the underlying limestone bedrock from surrounding MECP well records;
- The required depth of dewatering was assumed to be 0.5 m below the excavation floors;
- For ease of calculation, it was assumed that all excavations will be open cuts and upward seepage or pressure from the geological units underlying the Site is negligible (i.e., absence of artesian pressure or confining layers within anticipated excavation depths);
- It was assumed that surface water will be diverted or bypassed before the commencement of dewatering and surface water contribution to the dewatering is assumed to be negligible; and,
- A safety factor of 2 to account for the variabilities in the hydraulic properties.

Table 4-1 presents estimates of the average condition case and assumed worst-case dewatering volumes, including the estimated incidental precipitation volumes and total daily volumes. Incidental precipitation into the excavation will need to be managed during construction. A 131.4 mm rain event (highest observed one-day precipitation amount in last 100 years at the Site) over 24 hours would increase groundwater taking rates by the amounts summarized in **Table 4-1** below.

Description of Excavation and Approximate Chainage	Scenario	Approximate Steady State Condition ^[1] (m ³ /day)	Incidental Precipitation ^[2] (m ³ /day)	Total Daily Volumes ^[4] (m ³ /day)
Building Foundation Excavation ^[3]	Average Conditions		Water Takings Not Anticipated with the Exception of Managing Incidental Precipitation	
Building Foundation Excavation ^[3]	Assumed Worst Case	143.0	123.4	266.4

Table 4-1 Estimates of Groundwater Taking Volumes

^[1] Inflow volumes when the groundwater system reaches the steady-state including safety factor to account for the transient volumes during the initial days of dewatering.

^[2] Volumetric estimate of water that could accumulate in an open excavation because of direct precipitation. Estimated based on the excavation dimensions and highest recorded 24-hour rainfall in last 100 years for the Site. Note that the management of incidental precipitation is not included within total water taking volumes allowed under an EASR.

^[3] Based on the assumed excavation dimensions estimated from the provided Issued for SPA Pre-Consultation Drawings in **Appendix E.**

^[4] The approximate steady-state volumes provided contribute to the water taking volume limits under an EASR. The total daily volumes provided include incidental precipitation volumes as a reference for the contractor in the event of a precipitation event during construction.

Groundwater taking estimates are based on the assumed construction duration, excavation dimensions, construction sequencing, and methodology. Should there be changes in these items, revised groundwater-taking volumes will be required. It is the dewatering contractor's responsibility to determine the type and extent of the dewatering system required.

The predicted radius of influence of groundwater taking associated with the construction activities is anticipated to range from 13.2 m (average conditions case) to 22.4 m (assumed worst-case scenario), within the shallow soils for the building foundation excavation. Further details on the estimates of groundwater taking volumes are provided in **Appendix D**.

5 Groundwater Sampling Results

Englobe used a Solinst Canada Ltd. Model 122 oil/water interface meter to confirm the presence/absence and thickness of free (petroleum) product that may potentially be residing on the surface of the groundwater table. No free product was noted at the time of Englobe's water level measurements nor at the time of groundwater sampling. The electronic interface probe was decontaminated prior to the collection of each water level measurement.

On September 29, 2023, a groundwater sample obtained from MW23-04 and MW22-05 and was submitted for analysis of parameters listed in the City of Guelph Sewer Use By-law No. 15202 (1996). Two additional groundwater samples were taken as part of the Phase Two ESA from MW23-01 and MW23-03, and submitted for analysis of PHCs F1 to F4, VOCs and dissolved metals and inorganics.

A summary of the parameters exceeding the City of Guelph Sewer Use By-law No. 15202 (1996) and MECP Table 2 SCS are presented in **Table 5-1**.

Sample Location	Parameters Exceeding City of Guelph Sewer Use By-law No. 15202 (1996) for Sanitary Discharge Limits ^[1]	Parameters Exceeding City of Guelph Sewer Use By-law No. 15202 (1996) for Storm Discharge Limits ^[2]	Parameters Exceeding for MECP Table 2 SCS ^[3]
MW23-01	N/A ^[4]	N/A ^[4]	None ^[4]
MW23-03	N/A ^[4]	N/A ^[4]	None ^[4]
MW23-04	None ^[5]	None ^[5]	N/A ^[4]
MW23-05	None ^[5]	Total Suspended Solids, Total Zinc	N/A ^[4]

Table 5-1	Summary of Parameter Exceedances for Tested Groundwater Samples
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^[1] The City of Guelph Sewer Use By-law No. 15202 (1996), Section 2.1 for Discharges to Sanitary Sewer.

^[2] The City of Guelph Sewer Use By-law No. 15202 (1996), Section 3.1 for Discharges to Storm Sewer.

^[3] MECP "Soil, Ground Water and Sediment Standards for Use under Part XV.1 of the Environmental Protection Act", April 2011, Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition.

^[4] Not applicable. Groundwater was not sampled for applicable criteria.

^[5] None of the parameters were exceeded by the tested sample for the corresponding discharge limits or SCS.

Laboratory certificates of analysis for the groundwater samples are presented in Appendix F.

Based on the groundwater sampling and analysis completed as part of this investigation, concentrations of total suspended solids and total zinc exceeded the City of Guelph Storm Discharge Limit for MW23-05. The groundwater samples submitted from MW23-05 met the City of Guelph Sanitary Discharge Limits. The

groundwater samples submitted from MW23-01 and MW23-03 met the Table 2 SCS. Treatment of the discharge water is therefore expected to be required if discharging to the municipal storm sewer infrastructure.

Based on the water quality results presented in **Table 5-1**, the removal of substances exceeding applicable discharge limits may be required before discharge to the storm sewer.

The quality of groundwater that is to be removed during the construction activities should be re-assessed before and during construction dewatering activities to determine if it may be disposed of directly to the local sanitary or storm sewer without treatment, under a permit that would be required from the local municipality and/or conservation authority. The construction contractor is solely responsible for obtaining a permit from the local municipality and conservation authority for the discharge of water to the sanitary or storm sewer. The local municipality's sewer use program may require analysis for parameters not included as part of this assessment. We recommend that a project-specific groundwater management plan be required for the construction work.

It is also recommended that the contractor develop a spill management and control plan for review and approval by the local municipality and/or the conservation authority and to implement during construction, to limit the potential for introduction of groundwater contamination from spills related to construction activities.

6 Potential for Possible Mobilization of Contaminants

Englobe completed a Phase One Environmental Site Assessment (Phase One ESA) for the Site to identify issues of potential concern related to soil and groundwater contamination before completion of the field investigation. The Phase One ESA consisted of the completion of a site reconnaissance, review of available records (aerial photographs, city directories, and fire insurance plans), and a review of selected environmental databases (including spill records, fuel storage tank records, waste generation records, waste disposal site records, etc.). The environmental database review was completed by obtaining an EcoLog Environmental Risk Information Services (ERIS) report for an area with a radius of approximately 250 m from the boundaries of the Site. The AOPU report was submitted under separate cover. A copy of the EcoLog ERIS report has been provided in **Appendix H**.

A summary of the issues of potential concern related to potential groundwater contamination, as identified in the Phase One ESA report, within a 250-m radius of the Site is provided in **Table 6-1**.

PCA ^[1] Identification PCA ^[1] Location Number		Potentially Contaminating Activity ^[1]		
PCA 1	324 Speedvale Avenue East (90 m north-northeast of the Site)	No. 28 - Gasoline and Associated Products Storage in Fixed Tanks		
PCA 2	358 Speedvale Avenue East (250 north-northeast of the Site)	No. 37 - Operation of Dry-Cleaning Equipment (where chemicals are used) Unspecified PCA - Waste Generator Records		
PCA 3	328 Speedvale Avenue East (145	No. 28 - Gasoline and Associated Products Storage in Fixed Tanks		

Table 6-1 Summary of Potential Concerns Related to Groundwater Contamination

PCA ^[1] Identification Number	PCA ^[1] Location	Potentially Contaminating Activity ^[1]
	m north-northeast of the Site)	
PCA 4	328-378 Speedvale Avenue East (145 m north- northeast of the Site)	Unspecified PCA - Waste Generator Records
PCA 5	On-Site - 317 Speedvale Avenue East	No. 30 - Importation of Fill Material of Unknown Quality

[1] Potentially Contaminating Activity number/description as referenced in Table 2 of O.Reg. 153/04.

Periodic testing of the discharge water during dewatering is recommended to verify water quality and, if contaminants are detected, to aid in identifying proper treatment requirements.

As summarized in **Sections 2.5 and 5**, Englobe completed a limited investigation of groundwater quality conditions at the Site. Englobe collected groundwater samples from monitoring wells MW23-01, MW23-03 MW22-04 and MW22-05 (September 29, 2023). Groundwater samples were submitted for laboratory analysis of parameters listed in the City of Guelph Sewer Use By-law No. 15202 (1996) (MW23-04 and MW23-05), petroleum hydrocarbon (PHC) fractions F1 to F4, volatile organic compounds (VOCs), and dissolved metals and inorganics (MW23-01 and MW23-03).

Based on the groundwater sampling and analysis completed as part of this investigation, concentrations of total suspended solids and total zinc exceeded the City of Guelph Storm Discharge Limit for MW23-05. The groundwater samples submitted from MW23-05 met the City of Guelph Sanitary Discharge Limits. The groundwater samples submitted from MW23-01 and MW23-03 met the Table 2 SCS.

Treatment of the dewatering effluent may be required under the applicable discharge agreement established with the local municipality for discharge to the storm sewer system. It is recommended that periodic sampling of the groundwater and submission of collected samples for laboratory analysis be undertaken to confirm compliance with the applicable discharge agreement. Laboratory analysis should be (at a minimum) for the parameters listed in the City of Guelph Sewer Use By-law No. 15202 (1996). The terms of a discharge agreement to discharge the water to the sewer system may also specify the frequency of sampling and the parameters to be analyzed.

7 Evaluation of Impacts

7.1 Private Water Supply

A review of MECP Water Well Records (WWRs) indicated that 47 WWRs are registered within 500 m of the Site. Of the 47 WWRs, 1 is designated as a municipal water supply well. The remaining 46 WWRs are designated as observation wells, monitoring and test holes, abandoned monitoring and test hole, or undesignated.

The water supply well is as follows:

Well ID 6704194, designated municipal water supply well, was completed in dalomite at a maximum depth of approximately 46.3 m and was dated March 1, 1946. Located approximately 470 m south of the southern boundary of the Site.

The above-noted water supply well is identified as the Emma Well, and is registered under active Permit to Take Water Number 0157-C3JSR7. Based on the distance of the supply well from the Site, and as the well is screened in the bedrock, it is not anticipated that construction dewatering will interfere with the supply wells since the dewatering will be within the shallow overburden materials and the estimated area of influence associated with the excavation dewatering is in the order of 13.2 m to 22.4 m.

7.2 Local Sewage Works

As summarized in Section 4, construction dewatering volumes were estimated as follows:

Englobe assumed that discharge will be to the municipal storm or sanitary sewer system. The contractor will be responsible for discharging the water in a manner that does not result in erosion, flooding, or siltation.

As summarized in **Section 5**, Based on the groundwater sampling and analysis completed as part of this investigation, concentrations of total suspended solids and total zinc exceeded the City of Guelph Storm Discharge Limit for MW23-05. The groundwater samples submitted from MW23-05 met the City of Guelph Sanitary Discharge Limits. The groundwater samples submitted from MW23-01 and MW23-03 met the Table 2 SCS. Treatment of the discharge water is therefore expected to be required if discharging to the municipal storm sewer infrastructure.

Based on the limited number of potentially contaminating activities identified in **Table 6-1**, the continued presence and possible mobilization of these potential contaminants of concern during the anticipated construction dewatering is considered unlikely. Nevertheless, testing of the discharge water during dewatering is recommended to verify water quality and, if contaminants are detected, to aid in identifying proper treatment requirements and potential impacts to the environment from the release of discharge effluent.

7.3 Existing Water Takings

Section 34 of the Ontario Water Resources requires a permit for non-construction-related water takings of groundwater in excess of 50,000 L per day. Construction-related temporary groundwater takings between 50,000 L/day to 400,000 L/day require registration under Environmental Activity and Sector Registry (EASR). A Permit to Take Water (PTTW) is required for construction-related dewatering activities of greater than 400,000 L/day. A summary of all active PTTWs within approximately 500 m of the Site is provided in **Table 7-1** below:

Table 7-1	Summary of Active PTTWs within 500-m of Project Alignment
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Permit Number	Permit Holder Name	Purpose	Max Litres per Day	Source Typer	Distance to Site
0157-C3JSR7	The Corporation of the City of Guelph	Municipal Water Supply	3,100,000	Groundwater	470 m south of Site

The construction dewatering at the Site is anticipated to be short-term (3 to 20 days) and has a maximum estimated radius of influence of 22.4 m. It is not anticipated that construction dewatering will interfere with the above active PTTW.

7.4 Municipal Water Supply

The municipal water supply system for the City of Guelph is obtained primarily from a series of groundwater supply wells screened in the deep Paleozoic bedrock (Guelph and Amabel Formations). The closest municipal water supply well to the Site is Emma Well (WWR #6704194), which is located approximately 470 m south of the southern boundary of the Site. The predicted radius of influence associated with the construction dewatering is anticipated to range from 13.2 m to 22.4 m in the shallow overburden. Thus, dewatering activity related to the construction excavation is not anticipated to result in adverse interference to any municipal water supply wells.

7.5 Surface Water and Natural Functions of the Ecosystem

The nearest water body to the Site is Speed River located approximately 810 m to the west of the Site. Speed River flows from Guelph Lake, located approximately 3.0 km northeast of the northeastern corner of the Site. Based on the distance of the closest surface water body and the predicted radius of influence associated with the water takings, the dewatering activity related to the construction excavation is not expected to adversely interfere with its function.

Based on the Ontario Ministry of Natural Resources and Forestry online GIS application no provincially significant wetlands (PSW) or Area of Natural & Scientific Interests (ANSI) are located within approximately 1 km of the Site. The estimated area of influence associated with the excavation dewatering is in the order of 13.2 m to 22.4 m. Based on the information available from the Issued for SPA Pre-Consultation Design Drawings and estimated area of influence based on the assumed construction method and excavation dimensions, adverse interferences to these natural features by the proposed groundwater dewatering is not anticipated.

7.6 Geotechnical Opinion Regarding the Potential for Settlements

The estimated groundwater dewatering rates discussed above are based on observed groundwater level, hydraulic conductivity, assumed duration of dewatering and produced an anticipated groundwater cone of depression associated with the water taking within the temporary excavations. Further, the groundwater dewatering estimates assume an unlined vertically walled excavation and that the groundwater will be drawn down to 0.5 m below the base of the excavations. The area of influence or extent of groundwater drawdown varies from 13.2 m to 22.4 m depending on the groundwater levels, hydraulic conductivity, and required groundwater drawdown. For the majority of the predicted area of influence, the underlying geology appears to be comprised of topsoil, underlain by native deposits of silt and silty sand.

The predicted area of influence of the assumed excavations may include existing utility infrastructure and buildings within the area of influence of water taking activities, therefore, the potential for the occurrence of settlements cannot be ruled out. It is recommended that a dewatering risk management plan consisting of a detailed settlement monitoring plan should be developed and submitted by the contractor.

8 Discharge Plan

The discharge plan described herein was prepared according to the assumptions and evaluations detailed in the preceding sections of the report with consideration for the requirements imposed under the EASR. Englobe assumed that discharge will be to the municipal storm or sanitary sewer system.

8.1 Description of Water Taking, Water Use, and Return to Environment

Temporary excavations will be made at the proposed development at the Site. As these temporary excavations will be partially below the groundwater table, water is expected to be taken from the open excavations to lower the groundwater table to allow for the safe and proper construction of the services. It is assumed that the construction contractor may apply a variety of dewatering techniques to lower the groundwater table. For example, a suitable dewatering program for the excavations may consist of a typical sump and pump system within the excavation or a well-point system. It should be noted that the actual required dewatering effort will depend on several factors, including excavation depth, sequencing, season and weather conditions, and the length of time the excavation is left open. It should be noted that the interpretation of the dewatering estimates presented in this report and the selection of an appropriate dewatering design is the responsibility of the contractor.

8.2 Groundwater Discharge Method

Englobe assumed that discharge will be to the municipal storm or sanitary sewer system. The construction contractor will be responsible for discharging the water in accordance with the requirements of the applicable discharge agreement and in a manner that does not result in erosion, flooding, or siltation. The construction contractor has the responsibility to obtain a discharge agreement from the City of Guelph for the discharge of water to the local storm or sanitary sewer system. The City of Guelph's discharge agreements may require assessment of parameters other than those sampled as part of this assessment.

Treatment of the dewatering effluent to lower the concentrations of contaminants to below the limits described in the discharge agreement will likely be required for discharges to the storm sewer system based on the limited groundwater analytical testing completed as part of this investigation. Periodic analytical testing of the treated dewatering effluent to confirm the quality of the dewatering effluent is recommended for the duration of the water-taking activities.

8.3 Off-Site Removal of Discharge

If contamination of the discharge water is suspected based on visual or olfactory evidence or analytical test results, and if it is not possible to achieve on-Site treatment to meet discharge limits to the natural environment, the groundwater shall be discharged directly into containment vessels that can be taken off-Site to an appropriate waste receiver or treatment facility by a licensed waste hauler.

8.4 Discharge Quantity

Under the assumed worst case conditions, it is expected that the groundwater taking rate for the Site would be limited to approximately 143.0 m³/day for the assumed excavation of the building foundation, excluding any incidental precipitation.

During conditions of a rainfall event of the equivalent of a 100-year storm event, the accumulated volume of water within the excavation would increase the daily pumping rate in the excavation by 123.4 m³/day for the assumed excavation of the building foundation.

Daily dewatering volumes of groundwater must not exceed 400 m³/day to comply with the EASR. Total daily volumes of water that include incidental precipitation during a 100-year storm event should be communicated to the contractor for preparation in the event of a precipitation event. Work in excavations requiring dewatering should therefore cease or be modified as required during the 100-year storm event to comply with the EASR requirements of 400 m³/day.

8.5 Sediment and Erosion Control

The contractor will be responsible for discharging the water in a manner that does not result in erosion, flooding, or siltation of nearby waterbodies. The amount of sediment in the dewatering effluent should be controlled by providing a filter system at the water intake(s) or outlet(s) to the sewer systems.

8.6 Discharge Quality

As summarized in **Section 5**, based on the groundwater sampling and analysis completed as part of this investigation, concentrations of total suspended solids and total zinc exceeded the City of Guelph Storm Discharge Limit for MW23-05. The groundwater samples submitted from MW23-05 met the City of Guelph Sanitary Discharge Limits. The groundwater samples submitted from MW23-01 and MW23-03 met the Table 2 SCS.

The quality of groundwater that is to be removed during the construction activities should be re-assessed before and during construction dewatering activities to determine if it may be disposed of directly to the natura environment or the local sanitary/storm sewer without treatment. A sewer discharge approval would be required to discharge water to the municipal sanitary sewer, and a water discharge approval may be required to discharge water to the environment. It is also recommended that periodic sampling of the dewatering discharge effluent and submission of collected samples for laboratory analysis be undertaken to confirm contaminant concentrations within the discharge water. Dewatering discharge effluent samples should be analysed for (at a minimum) for the parameters listed in the City of Guelph Sewer Use By-law No. 15202 (1996). The terms of a discharge agreement to discharge the water to the sewer system may also specify the frequency of sampling and the parameters to be analyzed.

Based on the distance between the excavations for the proposed building and the locations of the potential environmental concerns listed in **Section 6**, the possible mobilization of potential contaminants of concern during the anticipated excavation dewatering is considered unlikely. Nevertheless, testing of the discharge water during dewatering is recommended to verify water quality and, if contaminants are detected, to aid in identifying proper treatment requirements and potential impacts to the local environment.

9 Conclusions and Recommendations

Based on the above, the following conclusions are provided:

- Dewatering volumes presented in this report are based on the assumed excavation dimensions and construction methods, duration, sequence, and schedule, as per the Architectural Design Drawings. Changes in construction methods and duration, excavation dimension, and construction sequence may require recalculation of dewatering rates before construction. It is recommended that Englobe be retained to review any final Issued for Construction design packages for the Project to evaluate if recalculation of temporary dewatering estimates may be required.
- Based on the information available at the time of preparation of this report, groundwater taking volumes for assumed excavations were estimated as follows:
 - **Building Excavation:** For the 46.0 m long, 20.0 m wide building foundation excavation with a depth of 4.0 m, groundwater taking volumes are not anticipated with the exception of managing incidental precipitation (under the average conditions scenario) to 143.0 m³/day (under the assumed worst-case scenario), excluding any incidental precipitation.

- It is recommended that periodic sampling of the groundwater and submission of collected samples for laboratory analysis be undertaken to confirm compliance with the applicable discharge agreement. Laboratory analysis should be at a minimum for the parameters listed with the City of Guelph Sewer Use By-law No. 15202 (1996).
- It is recommended that the contractor develop a spill management and control plan for review and approval by the City of Guelph and to implement during construction, to limit the potential for introduction of groundwater contamination from spills related to construction activities.
- Based on the above-noted estimates of water taking, registration with the EASR may be suitable for anticipated water takings. It is the responsibility of the Client and their dewatering contractor to ensure that taking volumes are within the applicable permit limits. If the daily water taking volumes are found to exceed those authorized in the EASR, it is recommended that the local MECP staff be notified. We also recommend the development of a monitoring plan by the contractor to satisfy the following objectives:
 - Confirm that the groundwater taking does not result in unacceptable impacts;
 - Confirm that discharge water quality meets the applicable discharge quality requirements; and
 - Initiate contingency action if unacceptable impacts do occur.

It is recommended that a monitoring plan be developed and submitted by the contractor based on the consideration of the following:

- 1. Monitoring of daily water taking including maintenance of a daily record of water taking volumes, flow rates, and durations for the water taking source would be required as part of the monitoring plan. It is recommended that the daily records of flow rates by each pump be maintained at the Site in graphical and digital formats by installing properly calibrated flow meters to the discharge hoses.
- 2. Sampling procedures should be described for the grab sampling of discharge water and groundwater sampling from monitoring wells.
- 3. Additionally, if actual water taking volumes approach the 400,000 L/day limit, methods should be employed by the contractor to limit groundwater dewatering rates below 400,000 L/day, such as:
 - Placing a flow restriction on the dewatering equipment to limit dewatering to below 400,000 L/day;
 - Reducing the excavation dimensions;
 - Not completing excavations during upset conditions (i.e., during storm events, during periods of high groundwater);
 - Use of engineered groundwater control systems to reduce groundwater extraction;

If the above-noted methods are not feasible or are not able to reduce water-taking volumes to less than 400,000 L/day, then a Category 3 Permit to Take Water may be required for the water-taking.

Should significant water-bearing zones be encountered during excavation, Englobe recommends that supplementary hydraulic conductivity testing of the newly encountered water-bearing permeable materials be completed to update the groundwater inflow estimates presented in this report. Groundwater dewatering estimates presented in this report do not account for artesian conditions, potential hydraulic uplift, and associated aquifer depressurisation.

- The quality of the groundwater to be removed during the construction activities should be re-assessed during construction dewatering activities according to the requirements that would be established under the water discharge agreement.
- The predicted area of influence of dewatering of the proposed excavations may be large enough to include existing buildings, roadways, and utilities located adjacent to the Site. Therefore, the potential for the occurrence of dewatering-related settlements within the predicted area of groundwater drawdown cannot be ruled out. It is recommended that a dewatering risk management plan consisting of a detailed settlement monitoring plan should be developed and submitted by the contractor.

References

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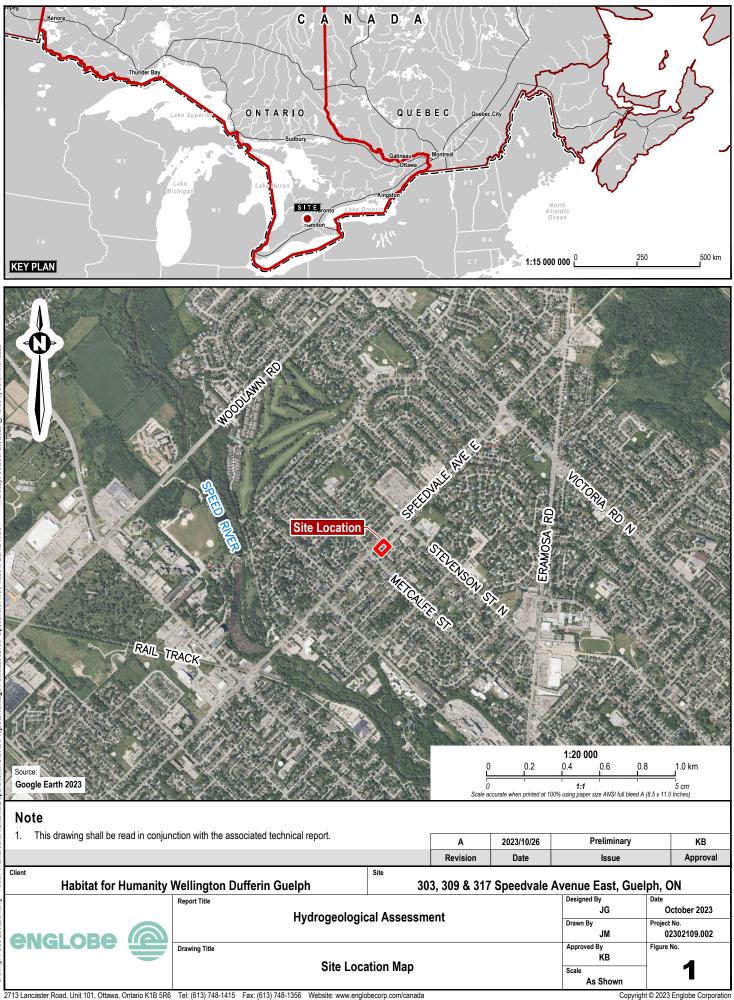
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Appendix A Figures

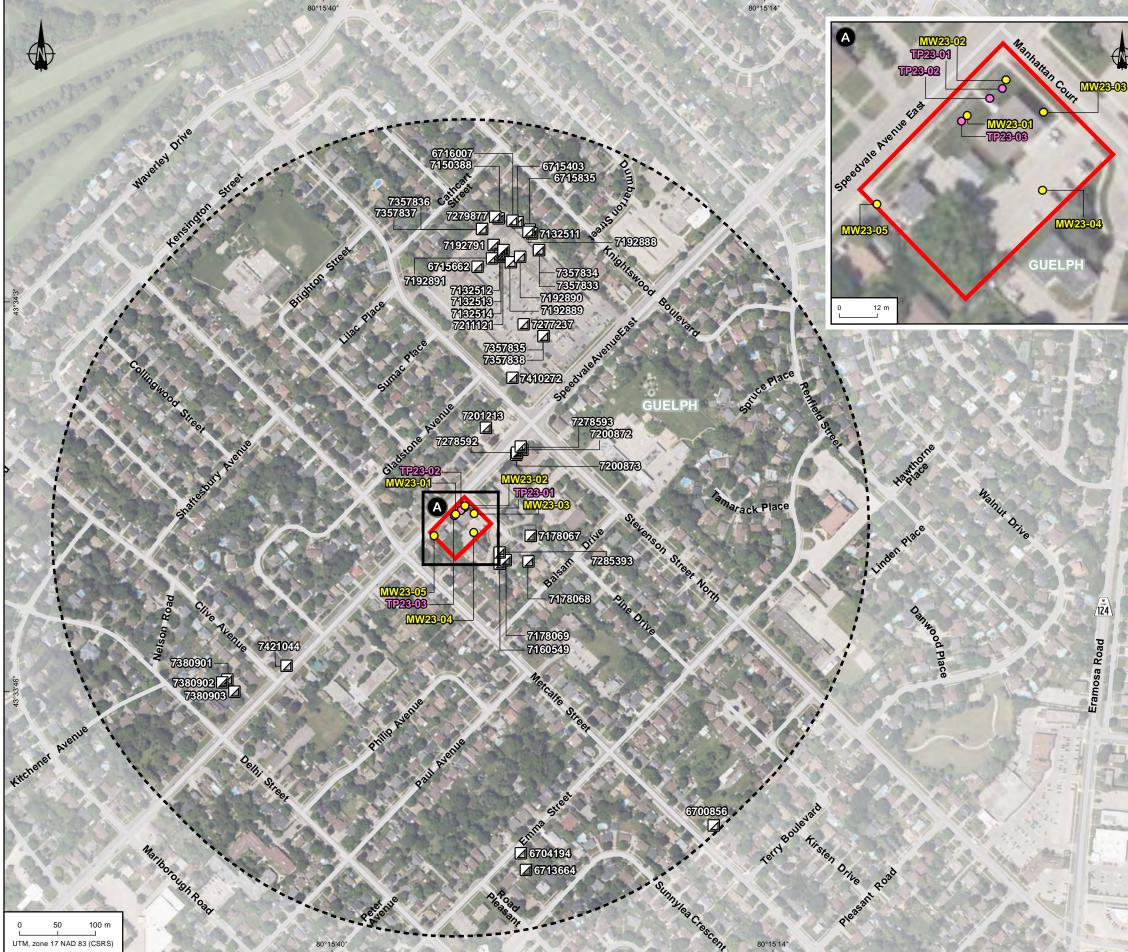




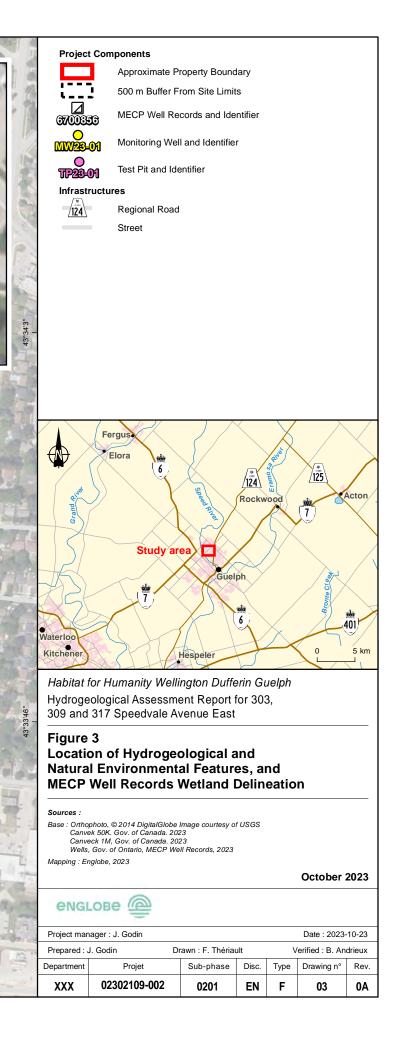




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Appendix B Borehole and Monitoring Well Logs





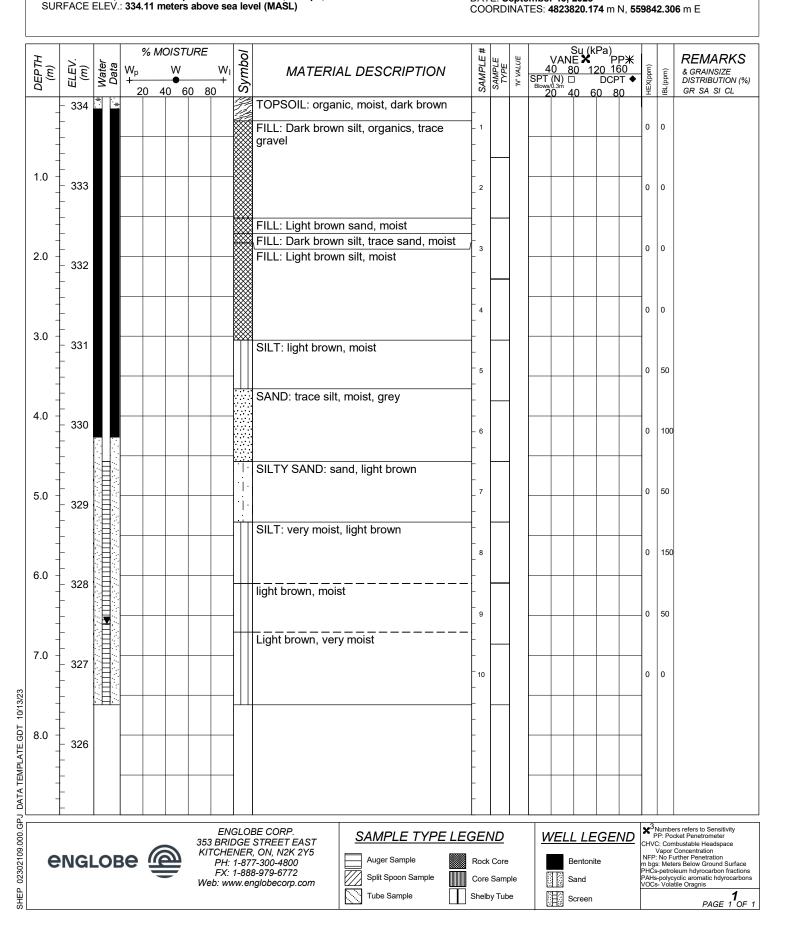
LOG OF BOREHOLE MW-23-01

ENGLOBE REF. No.: 02302109.001

CLIENT: Habitat for Humanity Wellington Dufferin Guelph PROJECT: Phase Two ESA- 303, 309 and 317 Speedvale Avenue East, Guelph, ON

LOCATION: 303, 309 and 317 Speedvale Avenue East, Guelph, ON

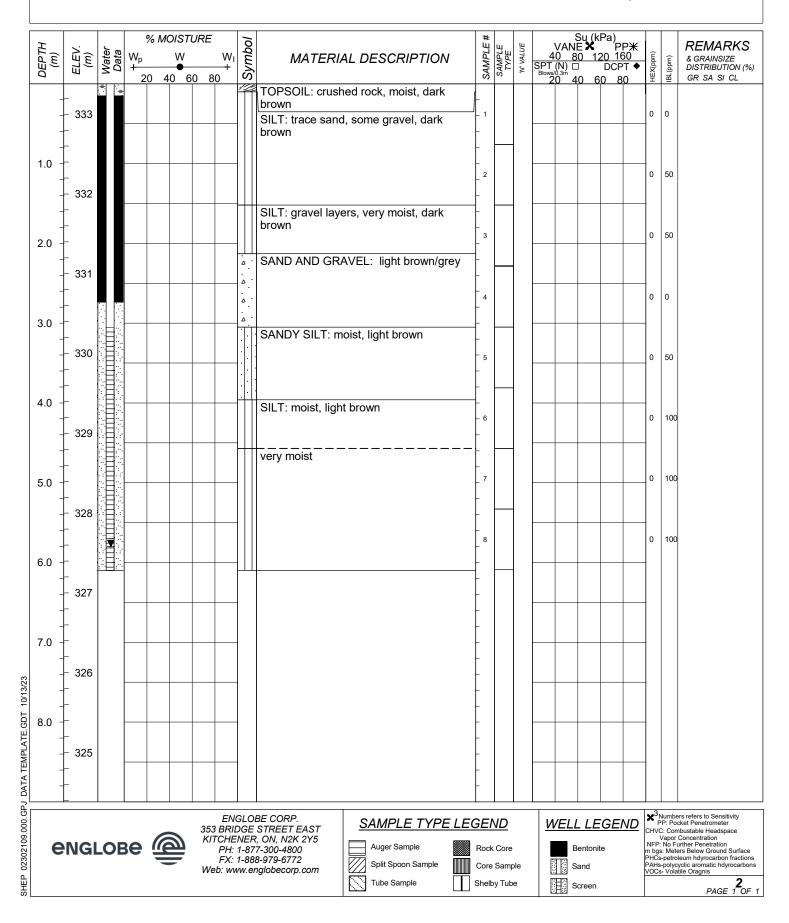
Drilling Data METHOD: Direct Push DIAMETER: 150 mm DATE: September 19, 2023 COORDINATES: 4823820.174 m N, 559842.306 m E



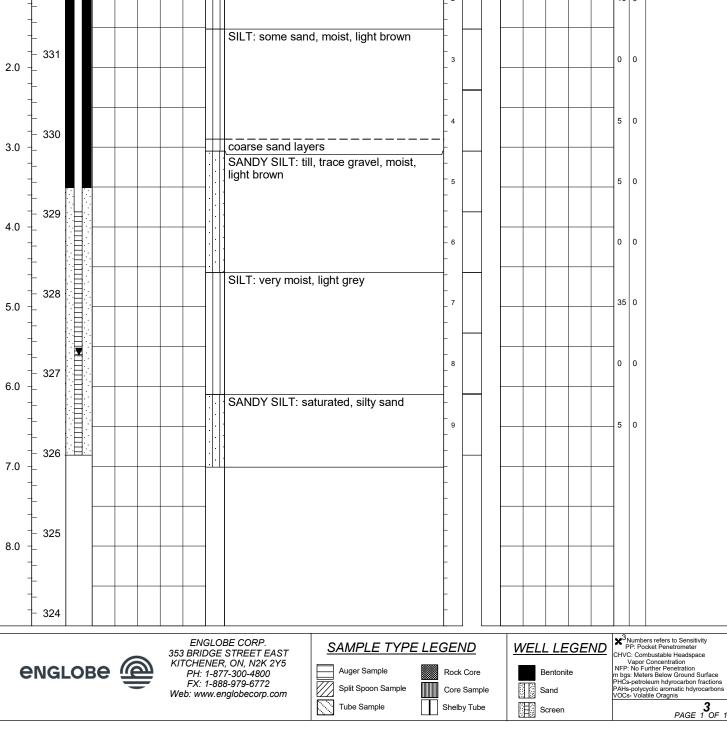
LOG OF BOREHOLE MW-23-02

ENGLOBE REF. No.: 02302109.001Drilling DaCLIENT: Habitat for Humanity Wellington Dufferin GuelphMETHOD:PROJECT: Phase Two ESA- 303, 309 and 317 Speedvale Avenue East, Guelph, ONDIAMETERLOCATION: 303, 309 and 317 Speedvale Avenue East, Guelph, ONDATE: SepSURFACE ELEV.: 333.38 meters above sea level (MASL)COORDIN

Drilling Data METHOD: Direct Push DIAMETER: 150 mm DATE: September 19, 2023 COORDINATES: 4823830.912 m N, 559854.175 m E



ENGLOBE REF. No.: 02302109.001 Drilling Data METHOD: Direct Push CLIENT: Habitat for Humanity Wellington Dufferin Guelph PROJECT: Phase Two ESA- 303, 309 and 317 Speedvale Avenue East, Guelph, ON DIAMETER: 150 mm LOCATION: 303, 309 and 317 Speedvale Avenue East, Guelph, ON DATE: September 19, 2023 SURFACE ELEV.: 332.84 meters above sea level (MASL) COORDINATES: 4823820.487 m N, 559863.457 m E Su (kPa) VANE ★ PP# 40 80 120 160 SPT (N) □ DCPT ↑ Blows0.3m 20 40 % MOISTURE Symbol DEPTH (m) REMARKS SAMPLE SAMPLE TYPE 'N' VALUE Water Data (m) ELEV Wp W W MATERIAL DESCRIPTION HEX(ppm) & GRAINSIZE DISTRIBUTION (%) IBL(ppm) 20 40 60 80 GR SA SI CL TOPSOIL: dark brown, moist SANDY SILT: silt, some sand, dark 20 0 1 brown SILT: some sand, dark brown 332 1.0 10 0 2 SILT: some sand, moist, light brown 331 3 0 0 0 4 5 330 coarse sand layers SANDY SILT: till, trace gravel, moist, light brown 5 0 5 329 0 0 6 SILT: very moist, light grey 328 35 0 7 8 0 0 327 SANDY SILT: saturated, silty sand 5 0 9 E 326

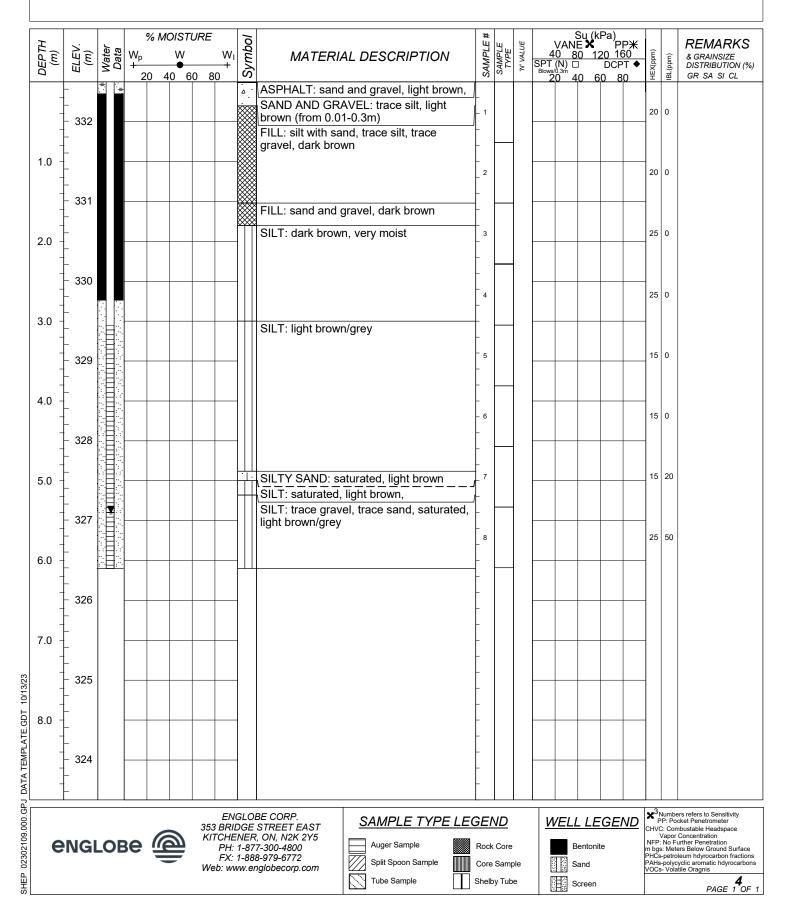


02302109.000.GPJ DATA TEMPLATE.GDT 10/13/23

SHEP (

ENGLOBE REF. No.: 02302109.001 CLIENT: Habitat for Humanity Wellington Dufferin Guelph PROJECT: Phase Two ESA- 303, 309 and 317 Speedvale Avenue East, Guelph, ON LOCATION: 303, 309 and 317 Speedvale Avenue East, Guelph, ON SURFACE ELEV.: 332.49 meters above sea level (MASL)

Drilling Data METHOD: Direct Push DIAMETER: 150 mm DATE: September 19, 2023 COORDINATES: 4823794.795 m N, 559860.972 m E



LOG OF BOREHOLE MW-23-05

ENGLOBE REF. No.: 02302109.001 Drilling Data METHOD: Direct Push CLIENT: Habitat for Humanity Wellington Dufferin Guelph PROJECT: Phase Two ESA- 303, 309 and 317 Speedvale Avenue East, Guelph, ON DIAMETER: 150 mm LOCATION: 303, 309 and 317 Speedvale Avenue East, Guelph, ON DATE: September 19, 2023 SURFACE ELEV .: 331.44 meters above sea level (MASL) COORDINATES: 4823790.771 m N, 559812.975 m E
 Su (kPa)

 VANE ★ PP#

 40
 80
 120
 160

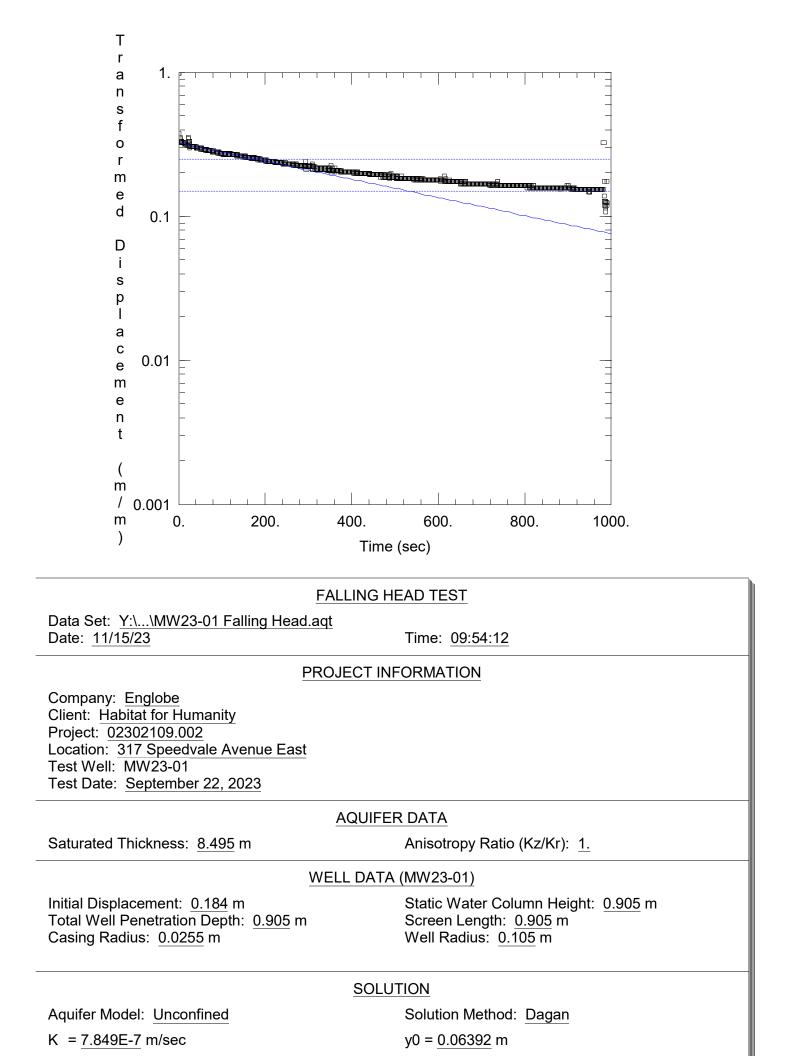
 SPT (N)
 DCPT ◆

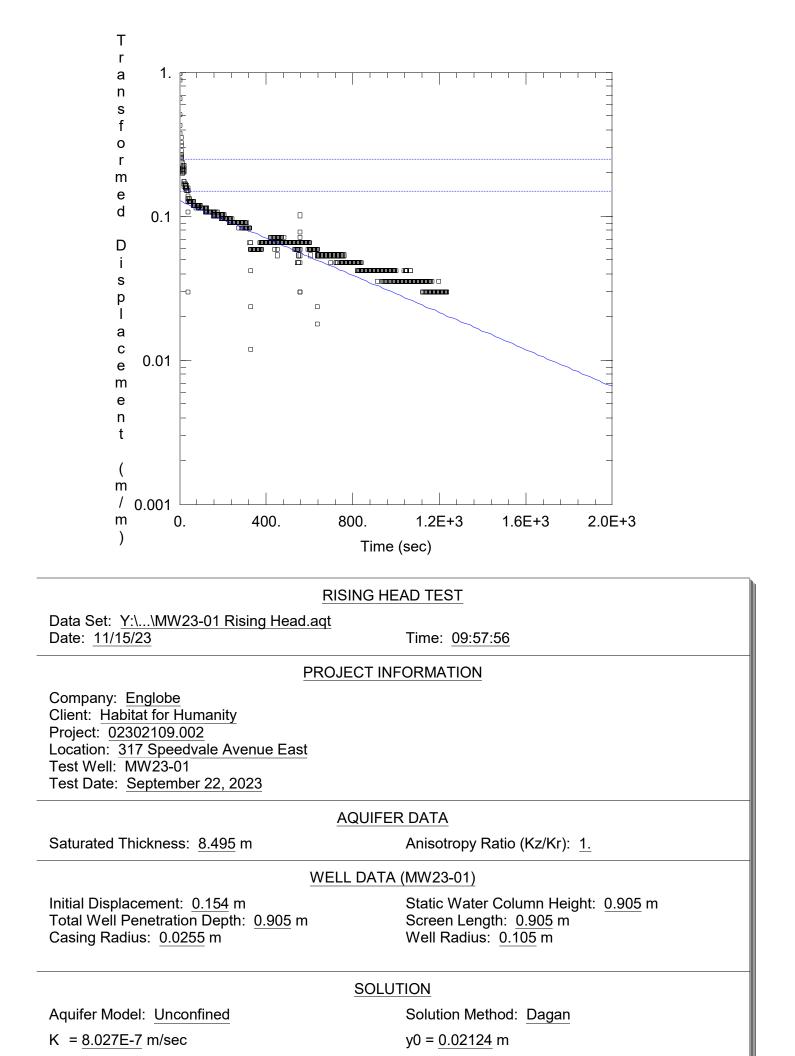
 Blows0.3m
 20
 40
 67
 % MOISTURE Symbol DEPTH (m) REMARKS SAMPLE SAMPLE TYPE 'N' VALUE Water Data (m) ELEV Wp W W MATERIAL DESCRIPTION HEX(ppm) & GRAINSIZE DISTRIBUTION (%) IBL(ppm) 20 40 60 80 GR SA SI CL ASPHALT ۵ SAND AND GRAVEL: dark brown 25 0 331 SILT: some sand, dark brown 1.0 10 50 2 SAND: dark brown 330 SILT: very moist, light brown 3 0 50 2.0 329 100 4 0 3.0 light brown, wet 0 50 328 5 4.0 100 15 6 SAND: light brown, wet 327 SILTY SAND: some silt, saturated 0 0 7 5.0 SAND: some silt, saturated 326 8 0 50 with saturated fine sand 6.0 325 7.0 324 02302109.000.GPJ DATA TEMPLATE.GDT 10/13/23 8.0 323 ✗³Numbers refers to Sensitivity PP: Pocket Penetrometer ENGLOBE CORP. SAMPLE TYPE LEGEND WELL LEGEND 353 BRIDGE STREET EAST KITCHENER, ON, N2K 2Y5 PP: Pocket Penetrometer CHVC: Combustable Headspace Vapor Concentration NFP: No Further Penetration m bgs: Meters Below Ground Surface PHCs-petroleum hdyrocarbon fractions PAHs-polycocilc aromatic hdyrocarbons VOCs- Volatile Oragnis емдьове Auger Sample PH: 1-877-300-4800 Rock Core Bentonite FX: 1-888-979-6772 Sand Split Spoon Sample Core Sample Web: www.englobecorp.com SHEP (**5** PAGE 1 OF 1 Tube Sample Shelby Tube Screen

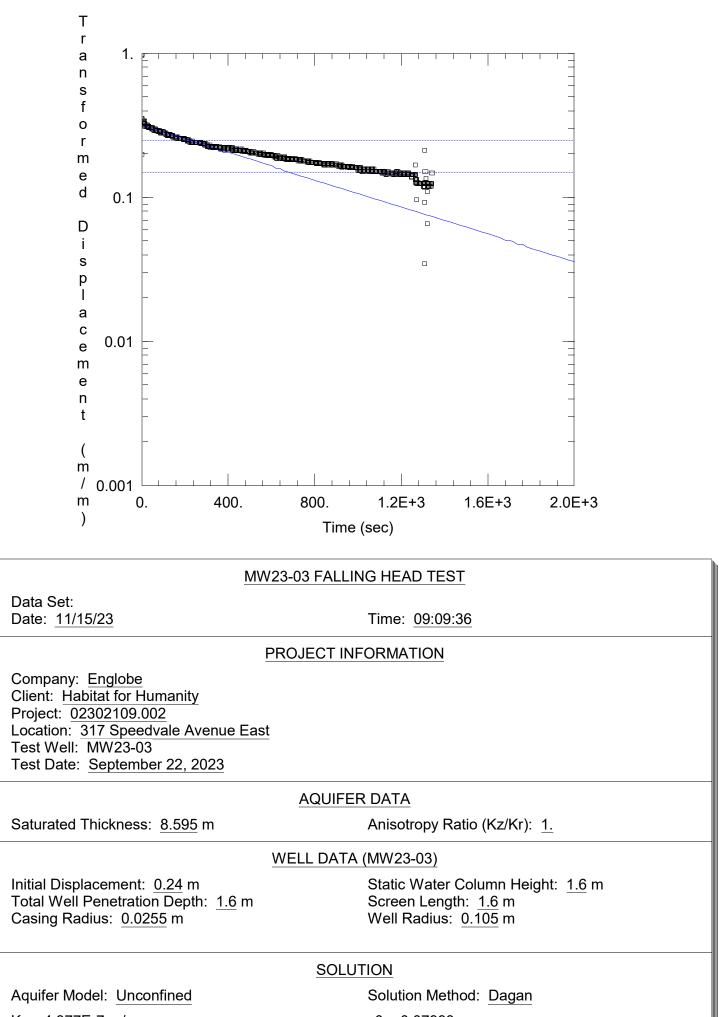
Appendix C Hydraulic Conductivity Test Results





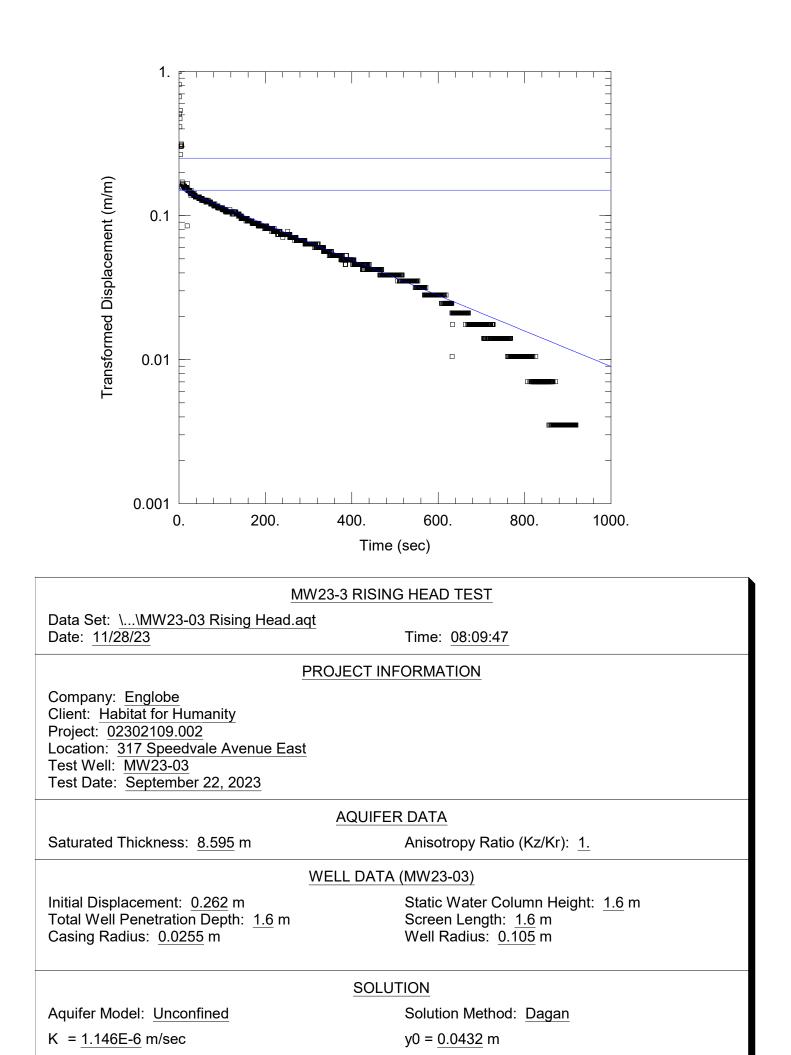


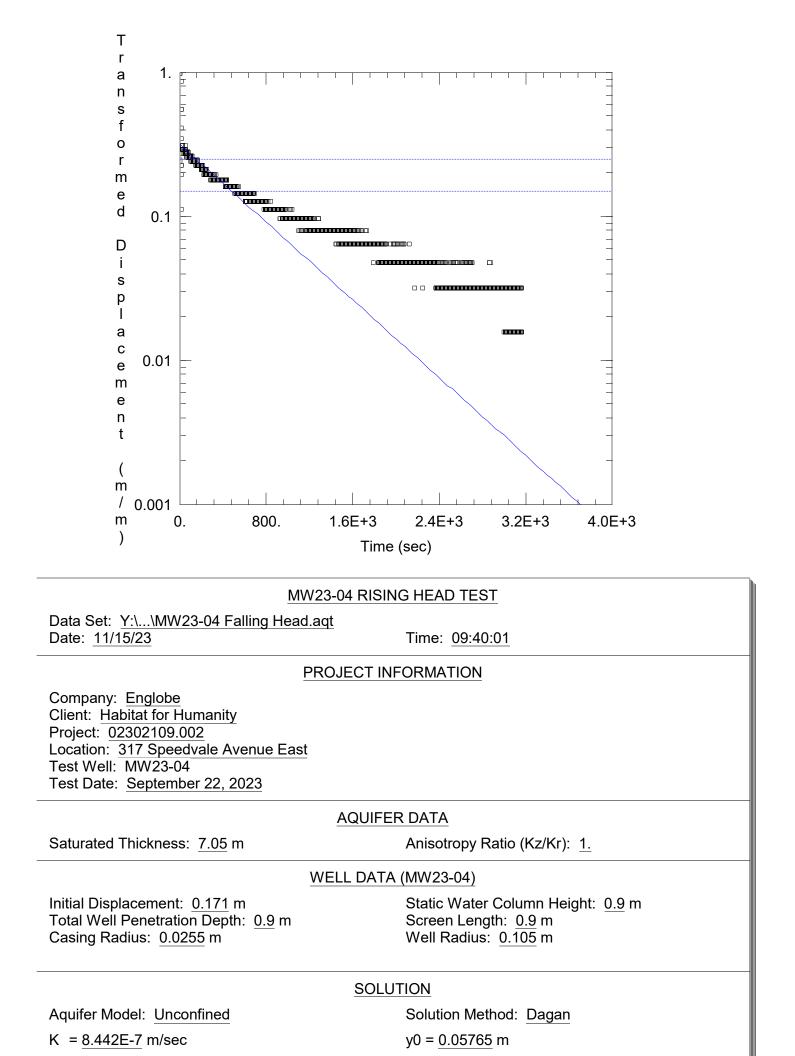


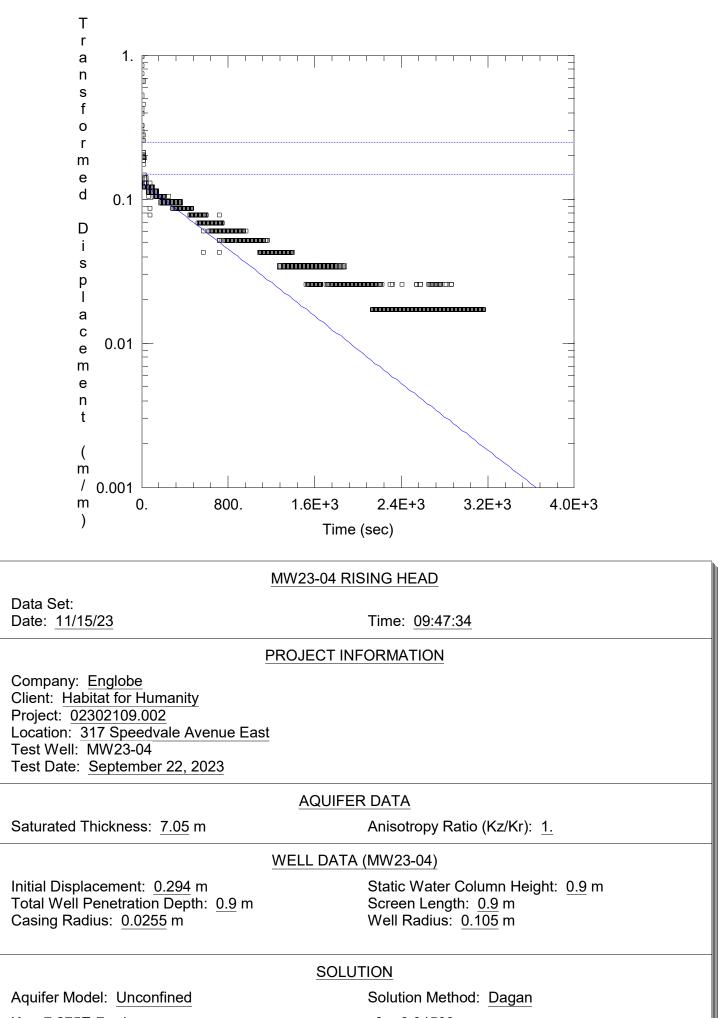


K = 4.377E-7 m/sec

y0 = 0.07993 m

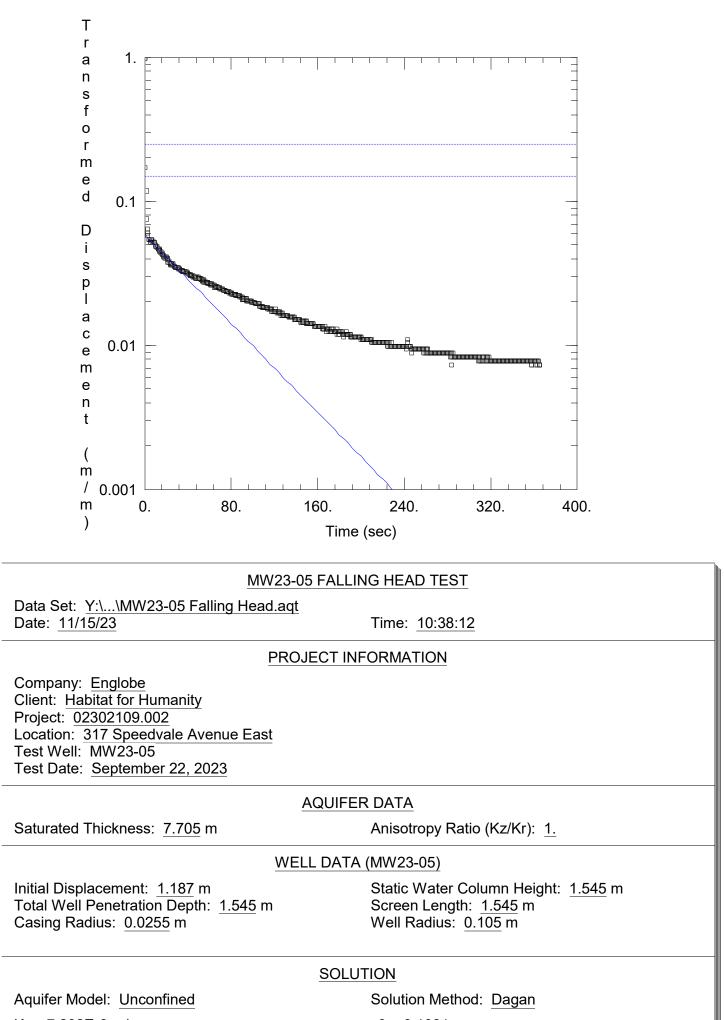






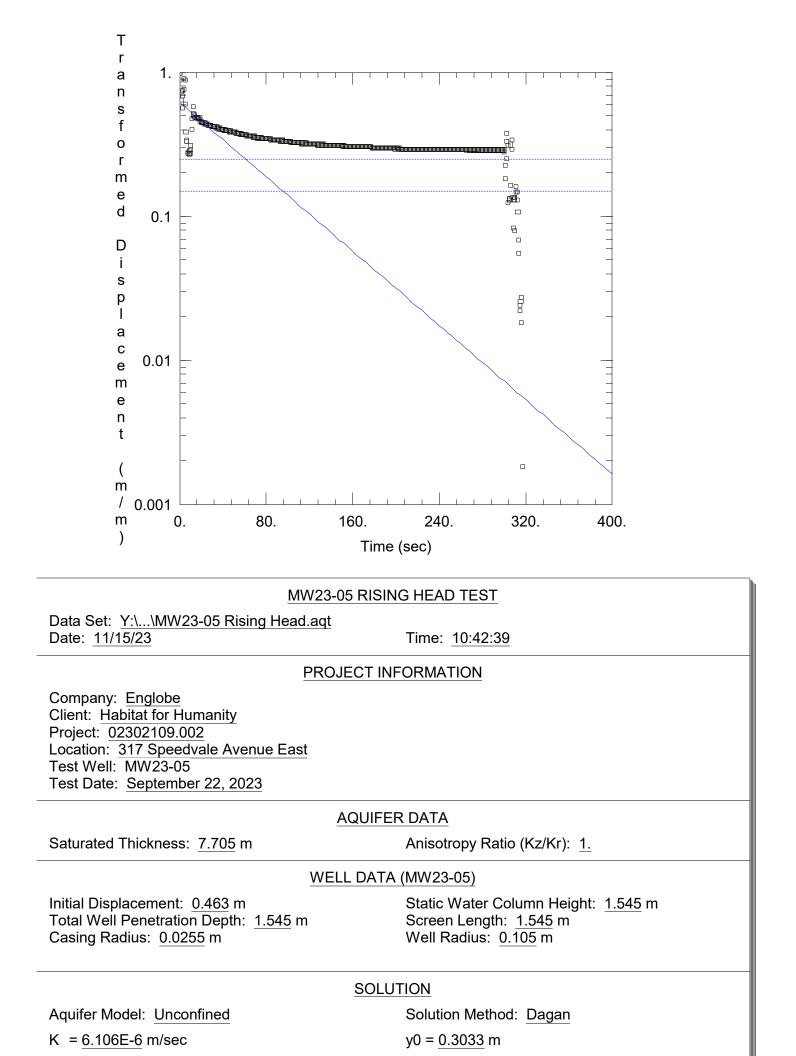
K = 7.275E-7 m/sec

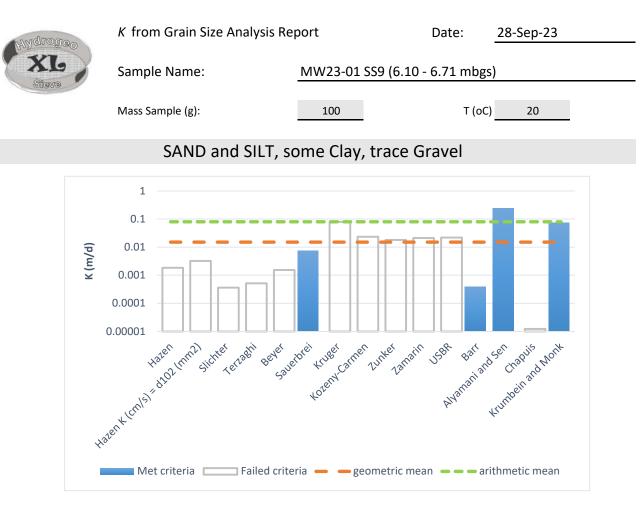
y0 = 0.04503 m



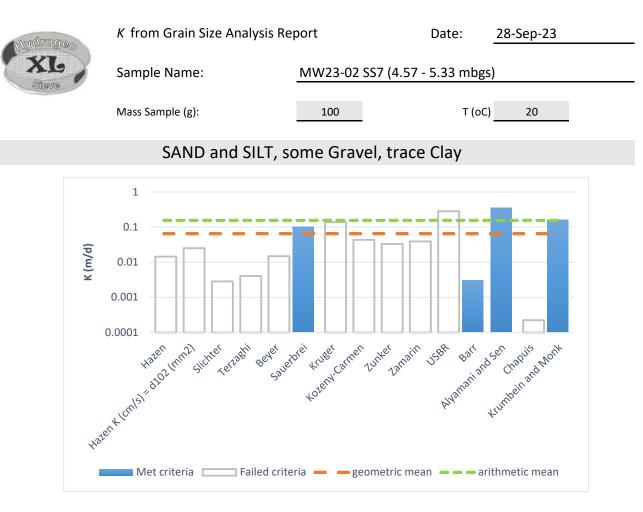
K = 7.202E-6 m/sec

y0 = 0.1081 m

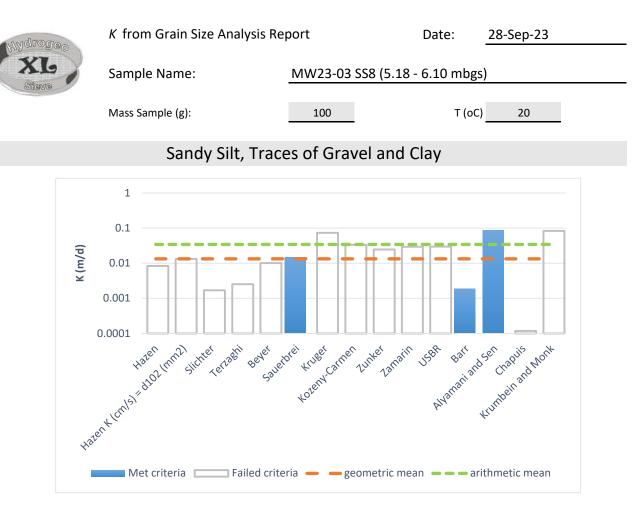




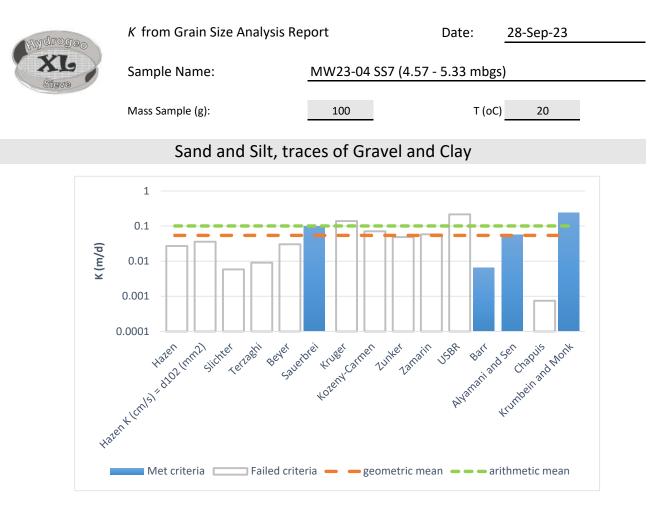
Estimation of Hydraulic Conductivity	cm/s	m/s	m/d	de
Hazen	2.12E-06	2.12E-08	1.83E-03	
Hazen K (cm/s) = d_{10} (mm)	3.74E-06	3.74E-08	3.23E-03	
Slichter	4.16E-07	4.16E-09	3.59E-04	
Terzaghi	5.93E-07	5.93E-09	5.12E-04	
Beyer	1.77E-06	1.77E-08	1.53E-03	
Sauerbrei	8.80E-06	8.80E-08	7.60E-03	
Kruger	9.21E-05	9.21E-07	7.96E-02	
Kozeny-Carmen	2.72E-05	2.72E-07	2.35E-02	
Zunker	2.07E-05	2.07E-07	1.79E-02	
Zamarin	2.45E-05	2.45E-07	2.12E-02	
USBR	2.52E-05	2.52E-07	2.18E-02	
Barr	4.46E-07	4.46E-09	3.85E-04	
Alyamani and Sen	2.79E-04	2.79E-06	2.41E-01	
Chapuis	1.42E-08	1.42E-10	1.23E-05	
Krumbein and Monk	8.52E-05	8.52E-07	7.36E-02	
geometric mean	1.75E-05	1.75E-07	1.51E-02	
arithmetic mean	9.33E-05	9.33E-07	8.06E-02	



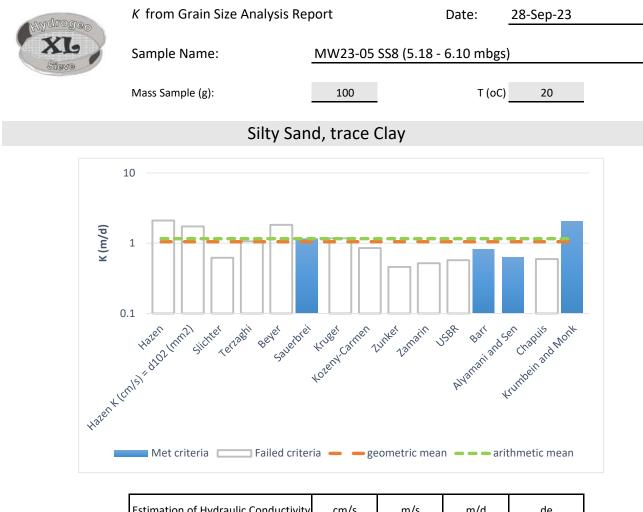
Estimation of Hydraulic Conductivity	cm/s	m/s	m/d	de
Hazen	1.66E-05	1.66E-07	1.43E-02	
Hazen K (cm/s) = d_{10} (mm)	2.92E-05	2.92E-07	2.52E-02	
Slichter	3.26E-06	3.26E-08	2.81E-03	
Terzaghi	4.65E-06	4.65E-08	4.02E-03	
Beyer	1.72E-05	1.72E-07	1.49E-02	
Sauerbrei	1.18E-04	1.18E-06	1.02E-01	
Kruger	1.58E-04	1.58E-06	1.37E-01	
Kozeny-Carmen	4.98E-05	4.98E-07	4.31E-02	
Zunker	3.81E-05	3.81E-07	3.29E-02	
Zamarin	4.51E-05	4.51E-07	3.90E-02	
USBR	3.26E-04	3.26E-06	2.82E-01	
Barr	3.49E-06	3.49E-08	3.02E-03	
Alyamani and Sen	4.07E-04	4.07E-06	3.51E-01	
Chapuis	2.58E-07	2.58E-09	2.23E-04	
Krumbein and Monk	1.91E-04	1.91E-06	1.65E-01	
geometric mean	7.52E-05	7.52E-07	6.50E-02	
arithmetic mean	1.80E-04	1.80E-06	1.55E-01	



Estimation of Hydraulic Conductivity	cm/s	m/s	m/d	de
Hazen	9.69E-06	9.69E-08	8.37E-03	
Hazen K (cm/s) = d_{10} (mm)	1.53E-05	1.53E-07	1.33E-02	
Slichter	1.96E-06	1.96E-08	1.69E-03	
Terzaghi	2.91E-06	2.91E-08	2.51E-03	
Beyer	1.17E-05	1.17E-07	1.01E-02	
Sauerbrei	1.72E-05	1.72E-07	1.49E-02	
Kruger	8.42E-05	8.42E-07	7.28E-02	
Kozeny-Carmen	3.86E-05	3.86E-07	3.33E-02	
Zunker	2.84E-05	2.84E-07	2.46E-02	
Zamarin	3.41E-05	3.41E-07	2.94E-02	
USBR	3.42E-05	3.42E-07	2.96E-02	
Barr	2.14E-06	2.14E-08	1.85E-03	
Alyamani and Sen	1.00E-04	1.00E-06	8.65E-02	
Chapuis	1.36E-07	1.36E-09	1.18E-04	
Krumbein and Monk	9.64E-05	9.64E-07	8.33E-02	
geometric mean	1.55E-05	1.55E-07	1.34E-02	
arithmetic mean	3.98E-05	3.98E-07	3.44E-02	



Estimation of Hydraulic Conductivity	cm/s	m/s	m/d	de
Hazen	3.11E-05	3.11E-07	2.68E-02	
Hazen K (cm/s) = d_{10} (mm)	4.13E-05	4.13E-07	3.57E-02	
Slichter	6.72E-06	6.72E-08	5.80E-03	
Terzaghi	1.05E-05	1.05E-07	9.10E-03	
Beyer	3.51E-05	3.51E-07	3.04E-02	
Sauerbrei	1.16E-04	1.16E-06	1.01E-01	
Kruger	1.61E-04	1.61E-06	1.39E-01	
Kozeny-Carmen	8.20E-05	8.20E-07	7.08E-02	
Zunker	5.61E-05	5.61E-07	4.85E-02	
Zamarin	6.72E-05	6.72E-07	5.81E-02	
USBR	2.50E-04	2.50E-06	2.16E-01	
Barr	7.59E-06	7.59E-08	6.56E-03	
Alyamani and Sen	6.53E-05	6.53E-07	5.64E-02	
Chapuis	8.67E-07	8.67E-09	7.49E-04	
Krumbein and Monk	2.78E-04	2.78E-06	2.41E-01	
geometric mean	6.33E-05	6.33E-07	5.47E-02	
arithmetic mean	1.17E-04	1.17E-06	1.01E-01	



Estimation of Hydraulic Conductivity	cm/s	m/s	m/d	de
Hazen	2.43E-03	2.43E-05	2.10E+00	
Hazen K (cm/s) = d ₁₀ (mm)	2.00E-03	2.00E-05	1.73E+00	
Slichter	7.15E-04	7.15E-06	6.17E-01	
Terzaghi	1.23E-03	1.23E-05	1.06E+00	
Beyer	2.11E-03	2.11E-05	1.82E+00	
Sauerbrei	1.33E-03	1.33E-05	1.15E+00	
Kruger	1.36E-03	1.36E-05	1.17E+00	
Kozeny-Carmen	9.89E-04	9.89E-06	8.54E-01	
Zunker	5.30E-04	5.30E-06	4.58E-01	
Zamarin	5.98E-04	5.98E-06	5.17E-01	
USBR	6.63E-04	6.63E-06	5.72E-01	
Barr	9.48E-04	9.48E-06	8.19E-01	
Alyamani and Sen	7.35E-04	7.35E-06	6.35E-01	
Chapuis	6.88E-04	6.88E-06	5.94E-01	
Krumbein and Monk	2.36E-03	2.36E-05	2.04E+00	
geometric mean	1.22E-03	1.22E-05	1.05E+00	
arithmetic mean	1.34E-03	1.34E-05	1.16E+00	

Appendix D Construction-Related Groundwater Inflow Estimates





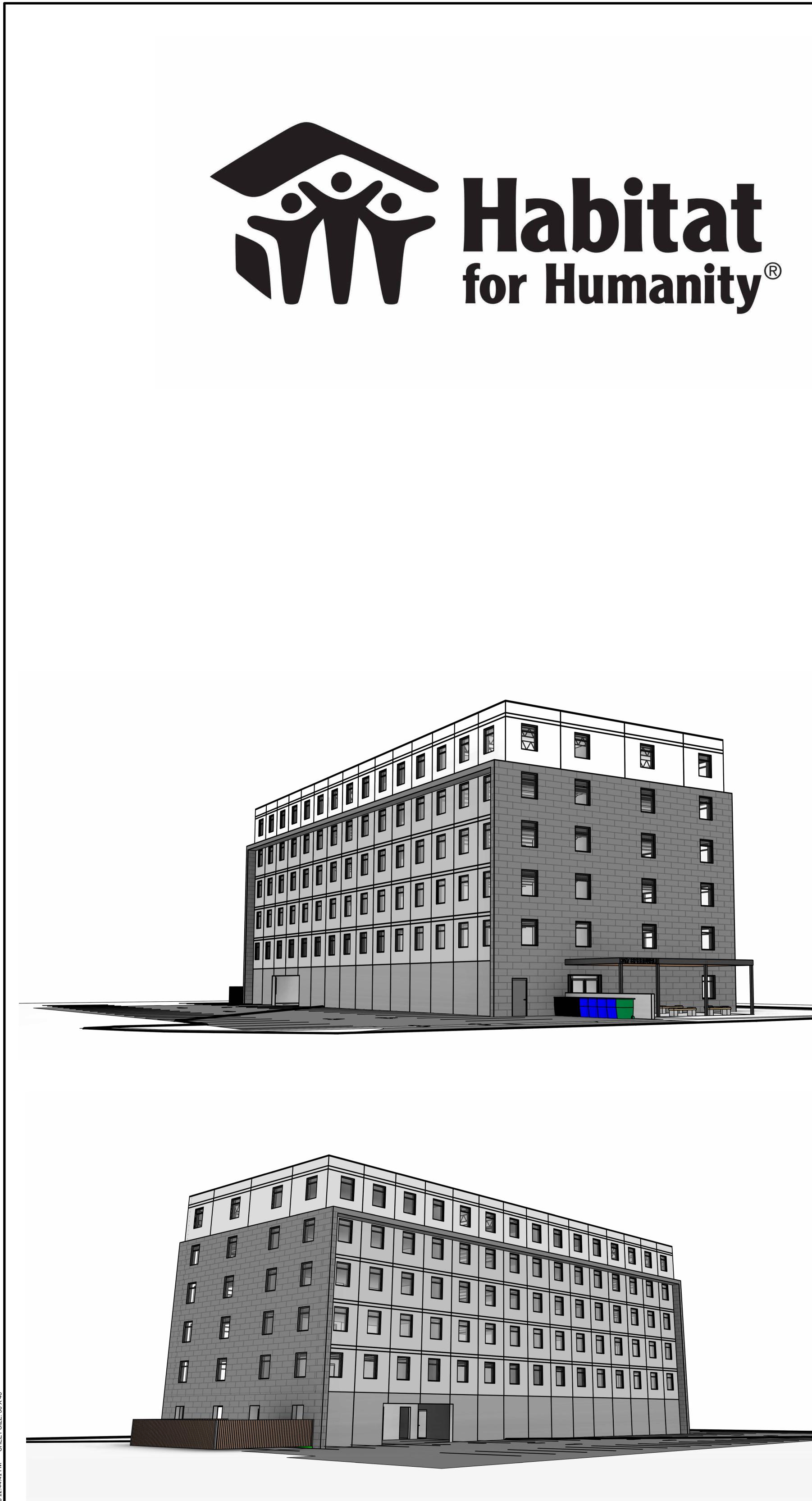
<u></u>

			Method:	Dupuit Fo	<u>Building Four</u> orcheimer Equa			io Estimates			
To calcula	ate flow from a p	point sour	ce in an unconf	ined aquif	er.						
Equation	-	$=\frac{\pi K(H^2-1)}{\ln \frac{1}{2}}$		T							
Where:		(3()									
Q = K =	Pumping Rate	<u>, ,</u>	(2)								
	Hydraulic Cond Hydraulic head		,	(m)							
h _w =			imal water table	()							
" R _o =			Il or Point Sour	,							
r _w =	Equivalent radi										
To calcula	ate the equivale	nt radius o	f influence for a	Well or P	oint Source. (App	proximated u	sing the Sicha	rt and Kryieleis	s Method)		
Equation	R	a₀=3000(H	−h _W)√K								
Where:											
R _o =	Radius of Influe			ture (m)							
	Hydraulic Cond		,								
H = h _w =	Initial Groundwater		(m) Base of the Exe	covation (r	m)						
					"')						
To calcula	ate the equivale	nt radius o	f the well.								
Equation		$r_w = \sqrt{\frac{ab}{\pi}}$									
Where:											
r _w =	Equivalent radi	us of the w	ell (m)								
a =	Length of excav		()								
b =	Width of excave	ation area	(m)								
					Par	ameters					
Excavatio	on Parameters			Aquifer P	arameters	uniotoro	Calculated F	arameters			
Length, a (m)	Width, b (m)	Depth (m bgs)	Depth Requiring Dewatering (m bgs)	Depth to Aquitard (m bgs)	Groundwater Level (m bgs)	K (m/s)	H (m)	h _w (m)	r _w (m)	R _o (m)	R _{o*} (m)
46	20	4	4.5	10	3.99	1.22E-05	6.008	5.5	17.11	5.32	22.44
R _{o*} (m) =	R _o + r _w	(When R _o e	stimate is within ex	cavation)							
		Dev	vatering Calcu	lations			1				
Q =	0.000827	m ³ /s			ate per Second				Incidental P	recipitation	
Q =	71.48	m ³ /day		GW Flow	Rate per day			Precipita	tion (m)	0.1	341
Q =	71,479	L/day		GW F	Flow Rate			Excavation	Area (m ²)	9	20
2 Q =	142,958	L/day	day GW Flow Rate with 2x Safety Factor			Precipitation Volume (m ³ /day) 12		123	.372		
Q =	266,330	L/day	Total Volume	s with Inci	dental Precipitati	on Volume		Precipitatio (L/d		123	,372

Appendix E Re-Issued for SPA Pre-Consultation Drawings

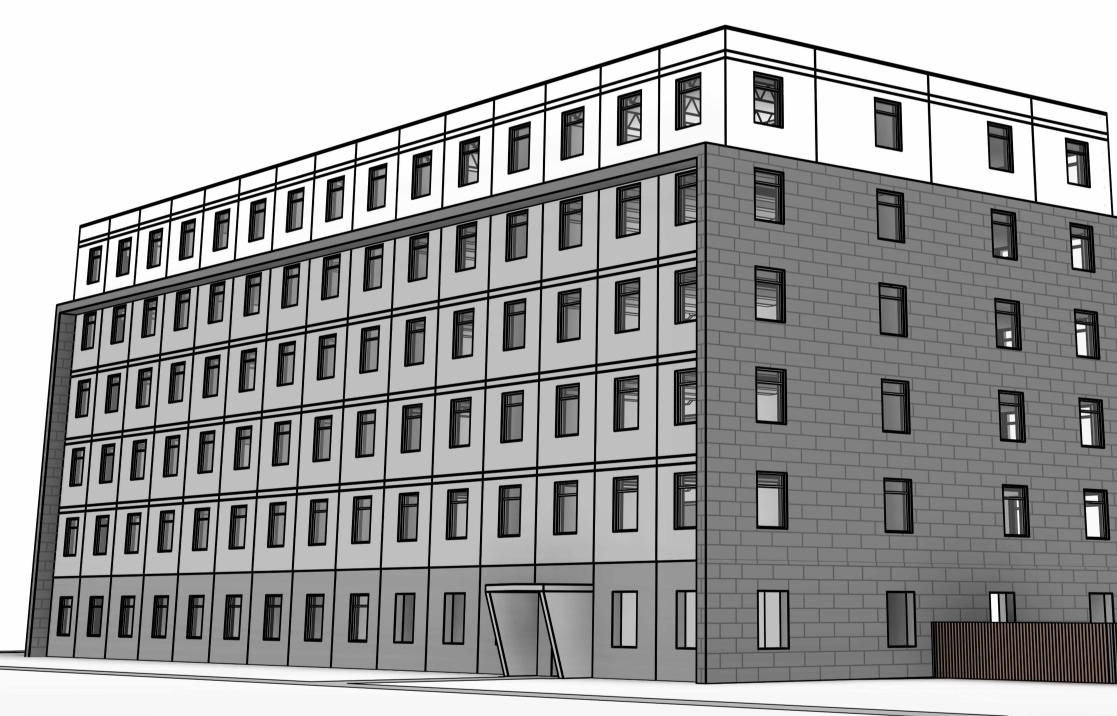






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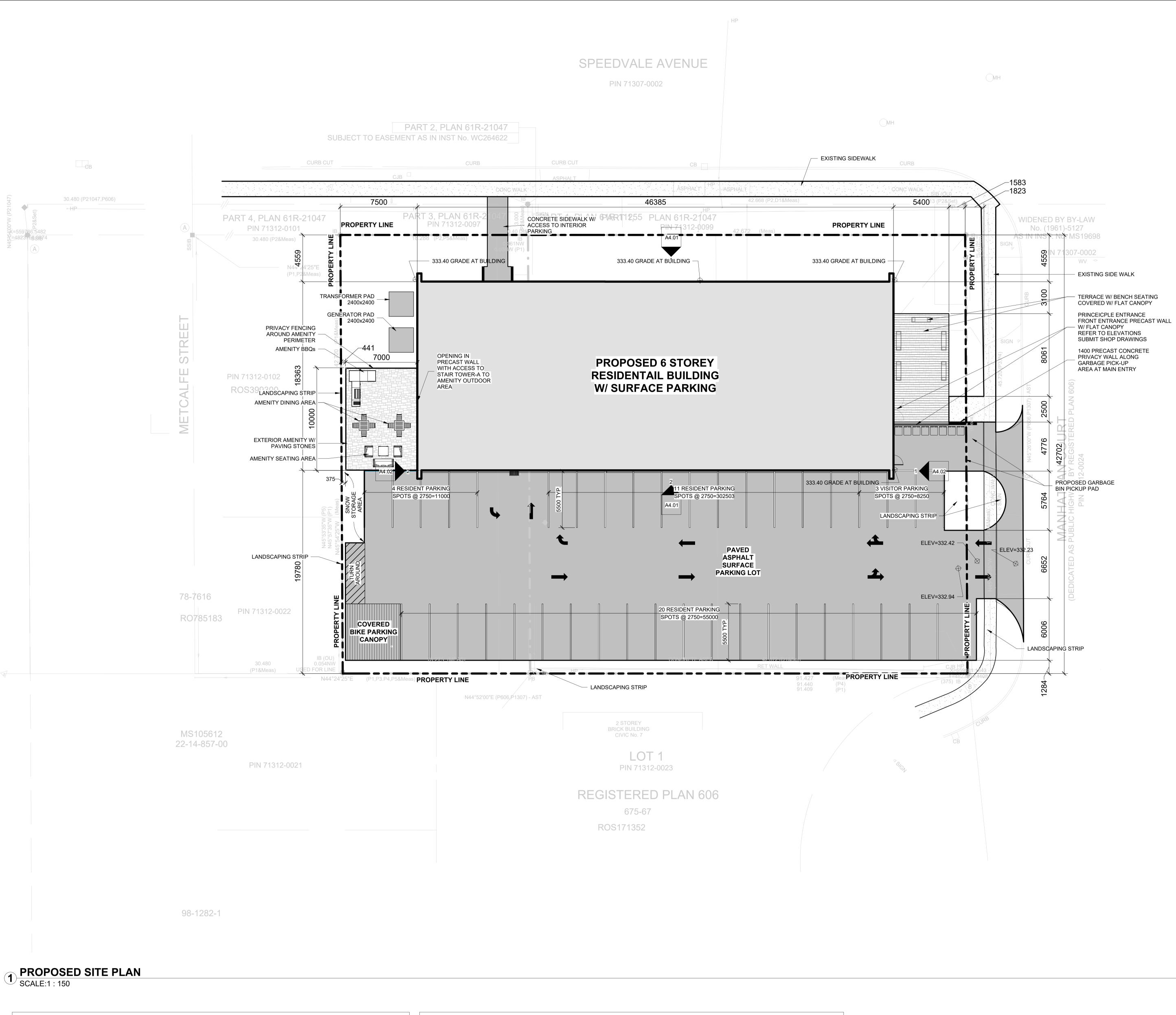


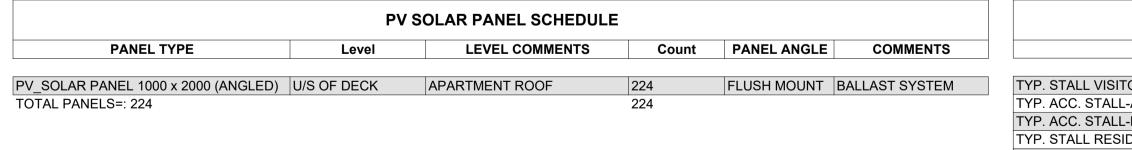
ARCHITECTURAL DRAWING SHEET LISTSHEET NAMESHEET ISSUED DATEREV.

A1.00	SITE PLAN	23/08/25	E
A0.00	COVER PAGE	23/08/25	E
A2.01	BASEMENT MAIN LEVEL & LEVEL 1.0	23/08/25	E
A2.03	LEVEL 2.0 AND 3.0 FLOOR PLAN	23/08/25	E
A3.01	BUILDING SECTIONS	23/08/25	E
A4.01	BUILDING ELEVATIONS	23/08/25	E
A4.02	BUILDING ELEVATIONS	23/08/25	E
A2.04	LEVEL 4.0 AND 5.0 FLOOR PLAN	03/01/22	E
A2.05	ROOF LEVEL	23/08/25	E

SHEET NUMBER

		An MASSEY RD. GUELPH, ON N1H 7M6 TEL: (519)822-5281 FAX: (519)823-6332 www.kiwinewton.com
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23-12-19 23-12-19 23-12-19 23-12-19 23-12-19 23-12-19 23-12-19	MANHAT DRAWING	VALE AFFORDABLE HOUSING TAN COURT & SPEEDVALE AVE E GUELPH, ON POSTAL CODE [TBD]
	PROJECT NO.: 23136 PROJECT DATE: 2023-07-20 DRAWN BY: CVL CHECKED BY: CK/PH SCALE: AS NOTED	DRAWING NO. A0.00





COMPACT STALL TYP. STALL RESIΓ TYP. STALL RESID TOTAL STALLS=

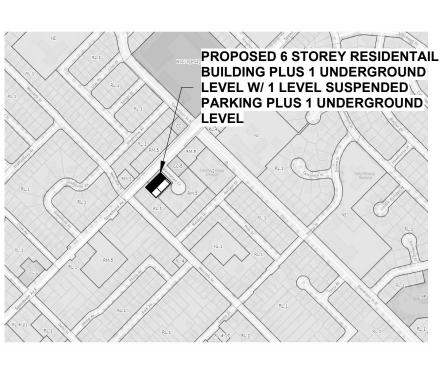
ROOM NA AMENITY SPACE DINING AMENITY A TERRACE AMENITY

CNT FILE PATH: GO TO SHEET TYPE PROP.

PARKING SCHEDULE						
STALL TYPE	PARKING LEVEL REFERENCE	STALL QTY	COMMENTS			
ITORS CoG-2.75m x 5.5m	EXTERIOR PARKING	2	SPOTS NOT ACCESSIBLE DURING GARBAGE PICK-UP TIME			
L-A CoG-3.4m x 5.50m	INTERIOR PARKING	1				
L-B CoG-2.75m x 5.50m	INTERIOR PARKING	1				
SIDENT CoG-2.75m x 5.5m	INTERIOR PARKING	38				
L CoG-2.65x5.5m	INTERIOR PARKING W/ EV	1				
SIDENT CoG-2.75m x 5.5m	INTERIOR PARKING W/ EV	3				
SIDENT EV CoG-2.75m x 5.5m	INTERIOR PARKING W/ EV	2				
=		48				

AMENITY AREA SCHEDULE					
IAME	ROOM NUMBER	AREA (m2)	AREA (ft2)	LOCATION	
E	107	55 m²	594 ft ²	INTERIOR	
(AREA	N/A	70 m²	753 ft ²	EXTERIOR	
ITY AREA	N/A	57 m²	614 ft ²	EXTERIOR	
				·	

BUILDING				
	ROOM #	OCCUPANC TYPE		
Not Placed				
M&E SHAFT	112			
M&E SHAFT	113			
Not Placed: 2				
	101			
VESTIBULE	101			
2 BEDROOM UNIT	102			
1 BEDROOM+DEN UNIT	105			
2 BEDROOM UNIT	106			
AMENITY SPACE	107			
MECHANICAL AND ELECTRICAL ROOM	108			
STORAGE LOCKERS	109			
GARBAGE/RECYCLE ROOM	110			
COORDOR STAIR TOWER-B	111 314			
TERRACE AMENITY AREA	N/A			
DINING AMENITY AREA	N/A			
STAIR TOWER-A	TBD			
ELEVATOR SHAFT	TBD			
BASEMENT: 15				
LEVEL 1.0				
2 BEDROOM UNIT	101			
3 BEDROOM UNIT	102			
1 BEDROOM+DEN UNIT	103			
2 BEDROOM UNIT	104			
	105			
3 BEDROOM UNIT 2 BEDROOM UNIT	106 107			
3 BEDROOM UNIT	107			
3 BEDROOM UNIT	100			
LEVEL 1.0: 9	100			
LEVEL 2.0				
2 BEDROOM UNIT	201			
3 BEDROOM UNIT	201			
1 BEDROOM+DEN UNIT	202			
2 BEDROOM UNIT	204			
1 BEDROOM UNIT	205			
3 BEDROOM UNIT	206			
2 BEDROOM UNIT	207			
3 BEDROOM UNIT	208			
3 BEDROOM UNIT LEVEL 2.0: 9	209			
LEVEL 3.0 2 BEDROOM UNIT	301			
3 BEDROOM UNIT	302			
1 BEDROOM+DEN UNIT	303			
2 BEDROOM UNIT	304			
1 BEDROOM UNIT	305			
3 BEDROOM UNIT	306			
2 BEDROOM UNIT	307			
3 BEDROOM UNIT	308			
3 BEDROOM UNIT LEVEL 3.0: 9	309			
LEVEL 4.0 2 BEDROOM UNIT	401			
3 BEDROOM UNIT	402			
1 BEDROOM+DEN UNIT	403			
2 BEDROOM UNIT	404			
1 BEDROOM UNIT	405			
3 BEDROOM UNIT	406			
2 BEDROOM UNIT	407			
3 BEDROOM UNIT	408			
3 BEDROOM UNIT LEVEL 4.0: 9	409			
LEVEL 5.0 2 BEDROOM UNIT	501			
3 BEDROOM UNIT	502			
1 BEDROOM+DEN UNIT	503			
2 BEDROOM UNIT	504			
1 BEDROOM UNIT	505			
3 BEDROOM UNIT	506			
2 BEDROOM UNIT	507			
3 BEDROOM UNIT	508			
	509			
LEVEL 5.0: 9 TOTAL UNITS: 62				



ROOM NAME

1 BEDROOM UNIT 1 BEDROOM+DEN UNIT

2 BEDROOM UNIT

3 BEDROOM UNIT

TOTAL UNITS: 48



PROPOSED 6 STOREY RESIDENTAL Statutional public subsequences Statutional public subsequences			Newton A1 MASSEY RD. GUELPH, ON N1H 7M6 TEL: (519)822-5281 FAX: (519)823-6332 www.kiwinewton.com These documents are instruments of service and are to copyright property of Newton Group Ltd. They may not reproduced, altered or reused without the express write consent of Newton Group Ltd.
			Habitat for Humanity Guelph Wellingtor
UNIT	BREAM	DOWN	
OOM NA		TOTAL UNITS	
OM UNIT OM UNIT NITS: 48		20	
BASE	WALL	COMMENTS	
FINISH	FINISH		
			B23-12-19REISSUED FOR SPA PRE-CONSULTATIONCVLA23-08-25ISSUED FOR SPA PRE-CONSULTATIONCVL#DATEDESCRIPTIONBY
			PROJECT SPEEDVALE AFFORDABLE
			HOUSING MANHATTAN COURT & SPEEDVALE AVE E GUELPH, ON
			POSTAL CODE [TBD] DRAWING
			SITE PLAN

CCUPANCY	LEVEL	ROOM	CEILING	BASE	WALL	COMMENTS
TYPE	REFERENCE	AREA	FINISH	FINISH	FINISH	
	Not Placed	Not Placed				
	Not Placed	Not Placed				
		0 m ²				
	BASEMENT	13 m²				
	BASEMENT	10 m ²				
	BASEMENT	72 m ²				
	BASEMENT	56 m²				
	BASEMENT	72 m ²				
	BASEMENT BASEMENT	55 m ² 34 m ²				
	BASEMENT	48 m ²				
	BASEMENT	22 m ²				
	BASEMENT	51 m²				
	BASEMENT	14 m²				
	BASEMENT	57 m²				
	BASEMENT	70 m ²				
	BASEMENT BASEMENT	13 m ²				
	BASEIVIEN I	13 m² 600 m²				
	LEVEL 1.0	72 m ²				
	LEVEL 1.0 LEVEL 1.0	88 m ² 56 m ²				
	LEVEL 1.0	69 m ²				
	LEVEL 1.0	48 m ²				
	LEVEL 1.0	95 m²				
	LEVEL 1.0	73 m²				
	LEVEL 1.0	88 m²				
	LEVEL 1.0	97 m ² 685 m ²				
	LEVEL 2.0 LEVEL 2.0	72 m² 88 m²				
	LEVEL 2.0	56 m ²				
	LEVEL 2.0 LEVEL 2.0	69 m ² 48 m ²				
	LEVEL 2.0	40 m ²				
	LEVEL 2.0	73 m ²				
	LEVEL 2.0	88 m²				
	LEVEL 2.0	97 m² 685 m²				
		000 111				
	LEVEL 3.0	72 m²				
	LEVEL 3.0	88 m²				
	LEVEL 3.0	56 m²				
	LEVEL 3.0	69 m ²				
	LEVEL 3.0 LEVEL 3.0	48 m ² 95 m ²				
	LEVEL 3.0	73 m ²				
	LEVEL 3.0	88 m ²				
	LEVEL 3.0	97 m²				
		685 m²				•
		7 0 m ²				
	LEVEL 4.0 LEVEL 4.0	72 m ² 88 m ²				
	LEVEL 4.0	56 m ²				
	LEVEL 4.0	69 m ²				
	LEVEL 4.0	48 m²				
	LEVEL 4.0	95 m²				
	LEVEL 4.0	73 m ²				
	LEVEL 4.0	88 m ²				
	LEVEL 4.0	97 m ² 685 m ²				
	LEVEL 5.0	72 m²				
	LEVEL 5.0	88 m²				
	LEVEL 5.0	56 m ²				
	LEVEL 5.0 LEVEL 5.0	69 m ² 48 m ²				
	LEVEL 5.0	48 m ² 95 m ²				
	LEVEL 5.0	73 m ²				
	LEVEL 5.0	88 m²				

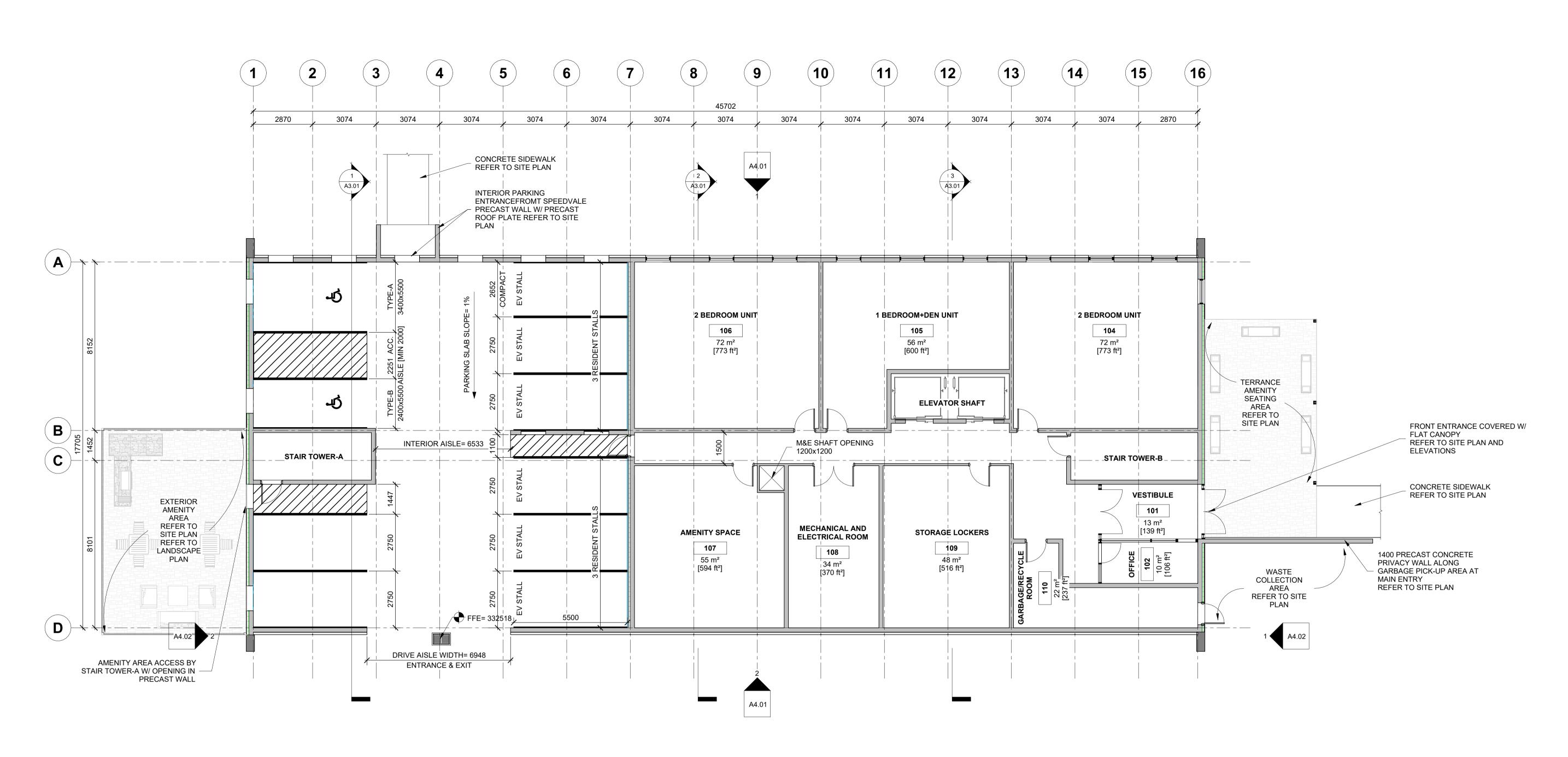
 LEVEL 5.0
 88 m²

 LEVEL 5.0
 97 m²
 685 m² 4022 m²

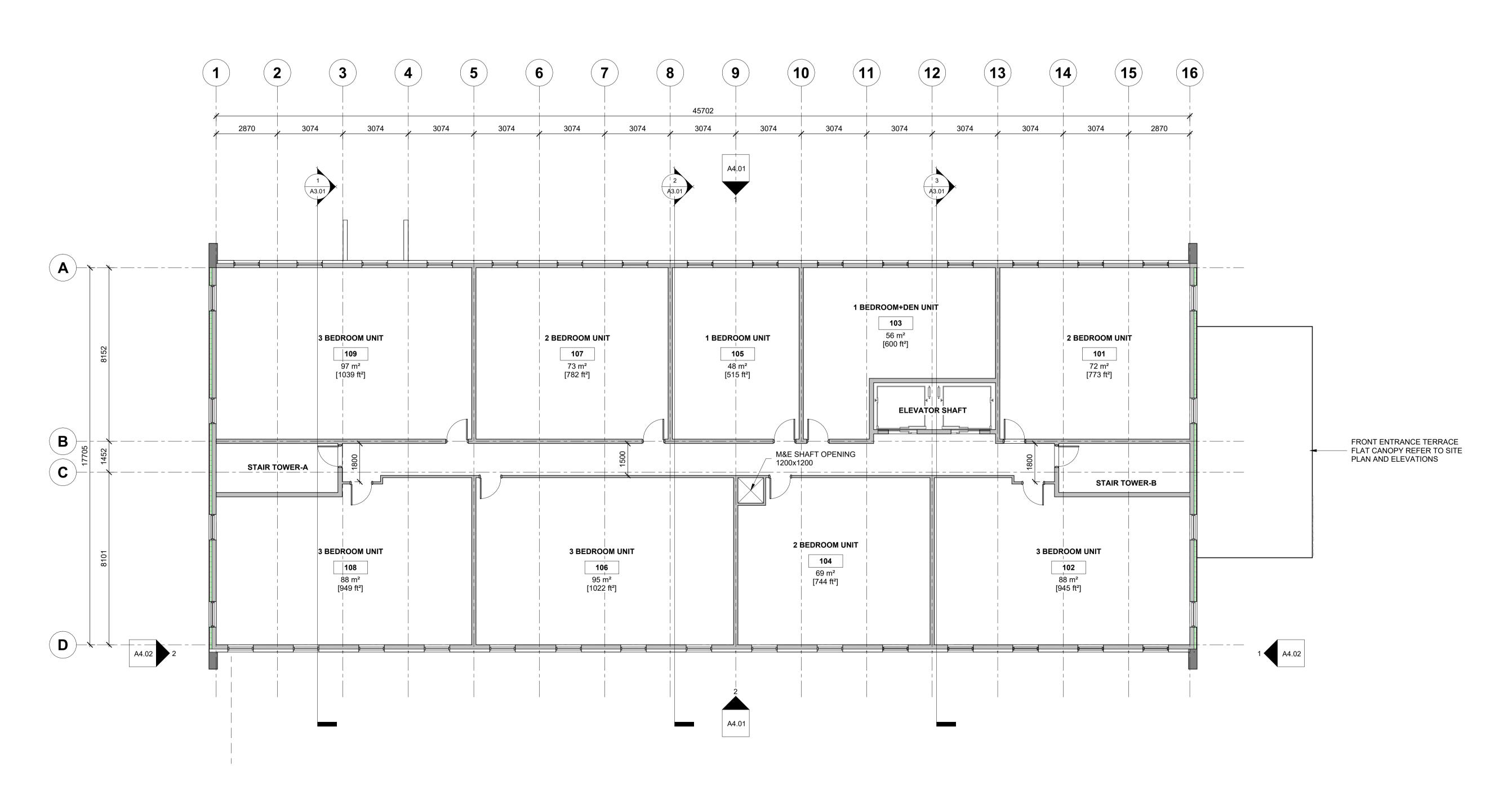
PROJECT DATE: 2023-07-20 DRAWN BY: CVL CHECKED BY: As indicated

DRAWING NO. **A1.00**

PROJECT NO.: 23136

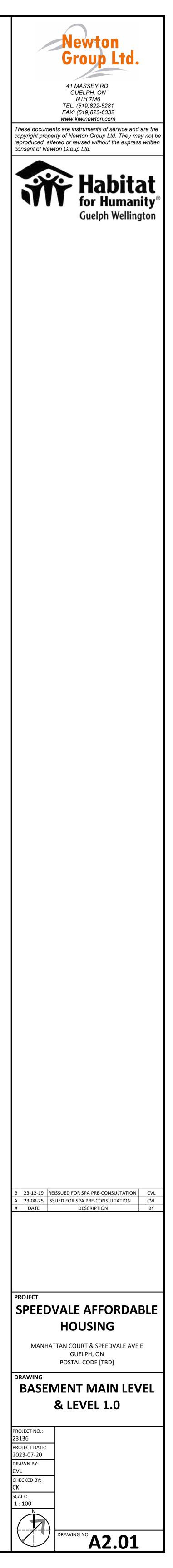


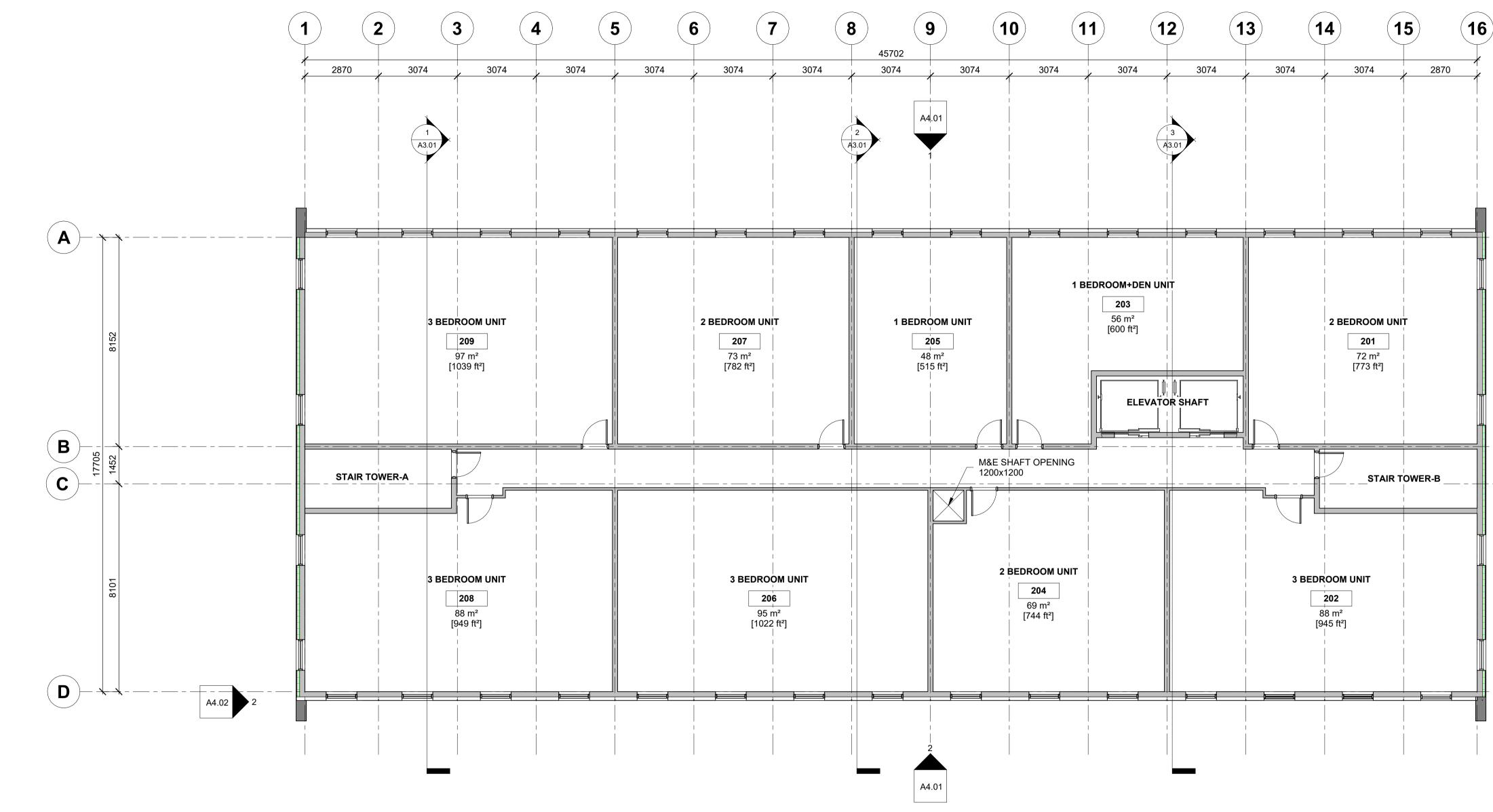




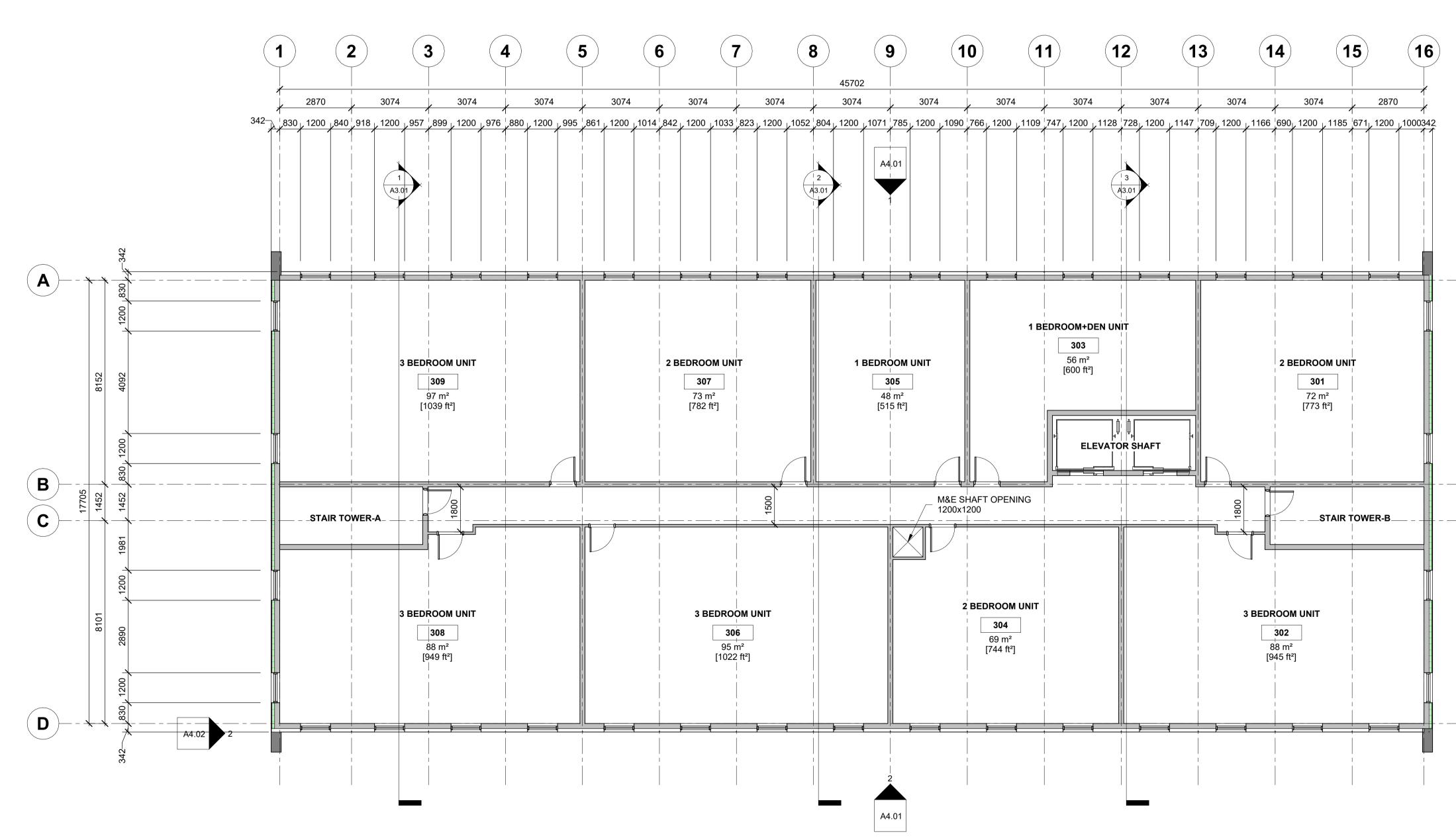


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1 LEVEL 2.0
SCALE: 1 : 100
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2 LEVEL 3.0 SCALE: 1 : 100

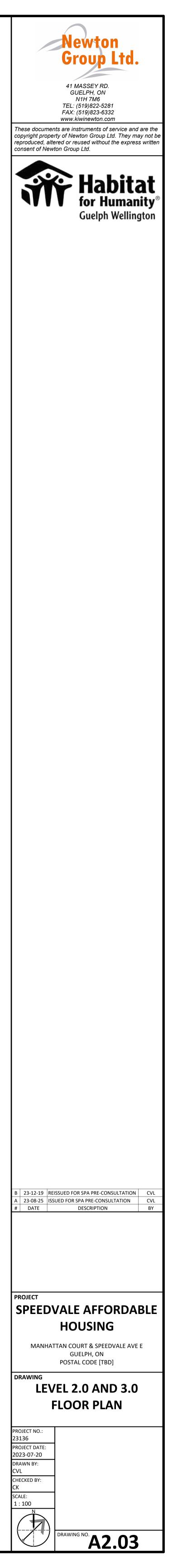
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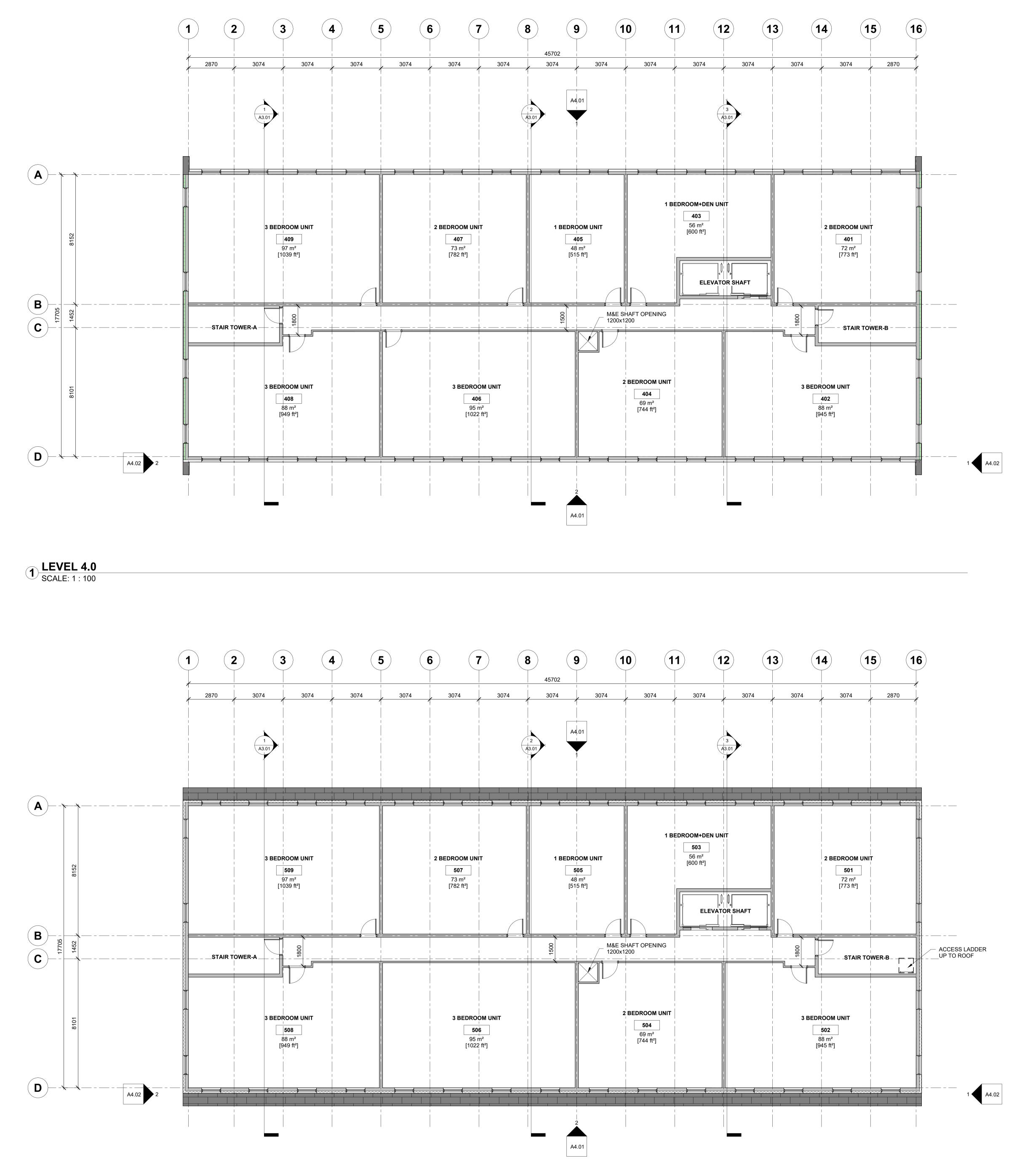
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A4.02

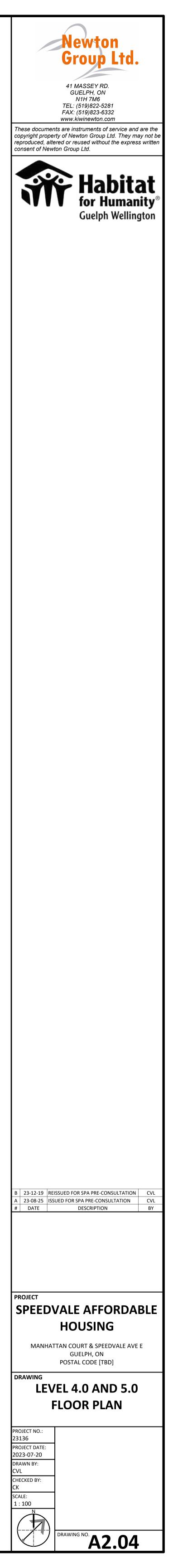
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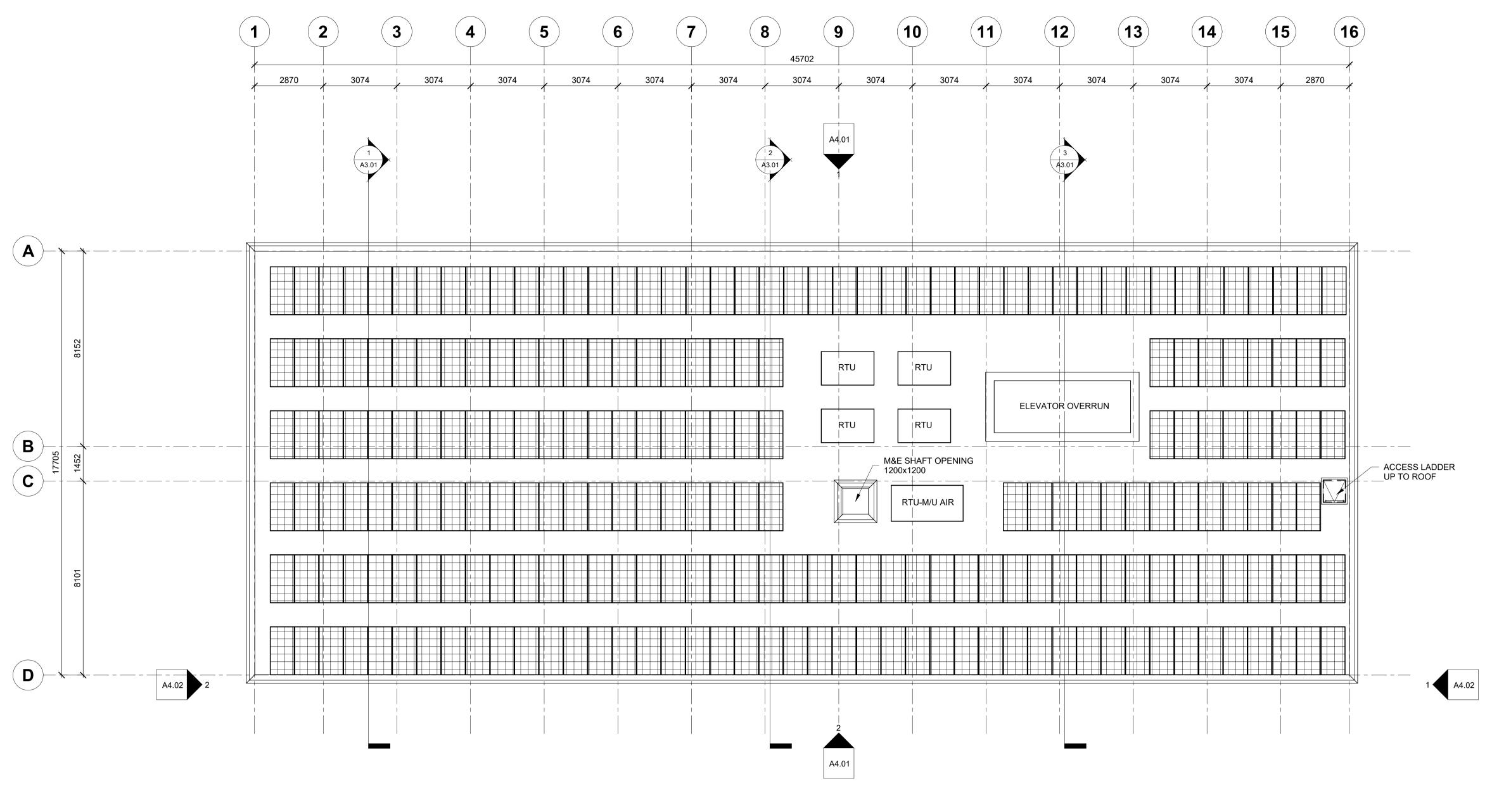




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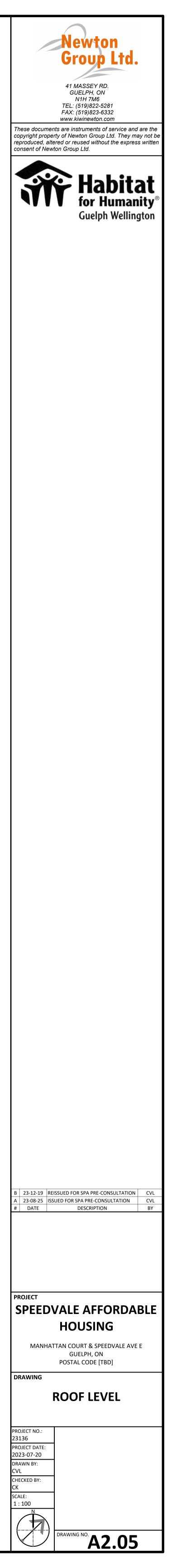
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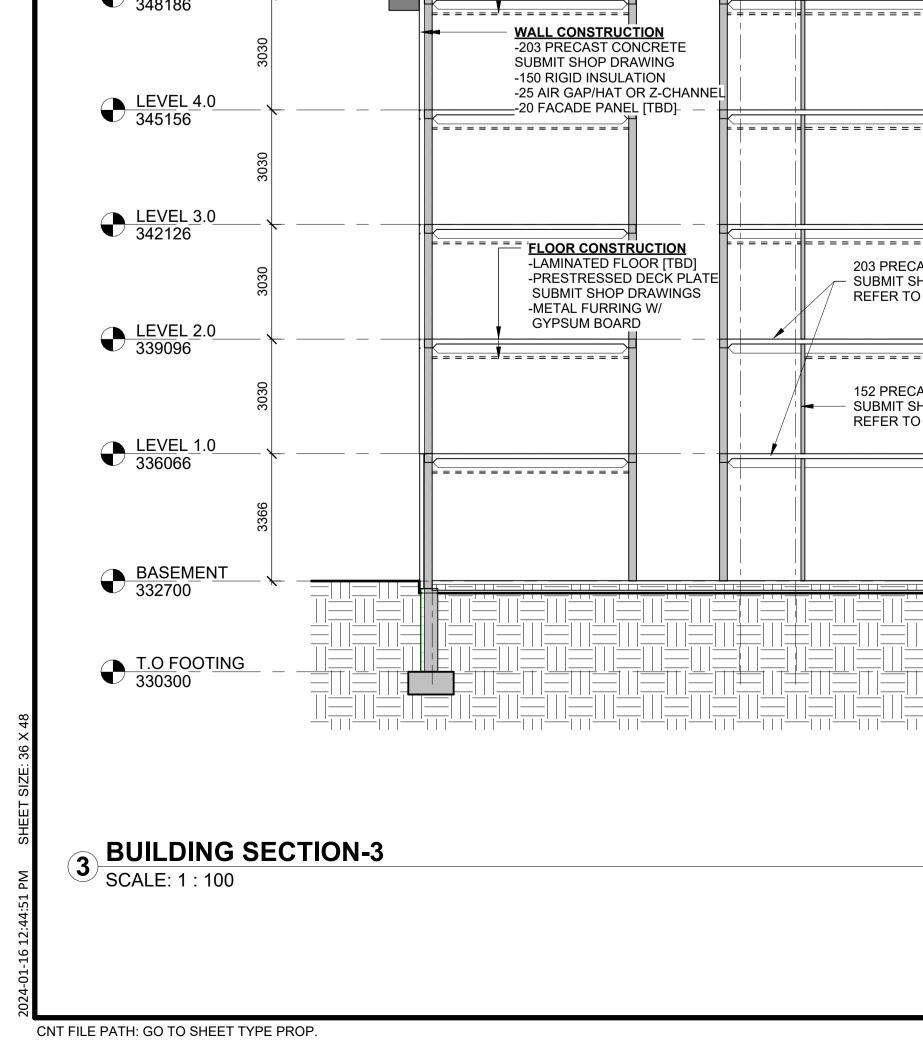


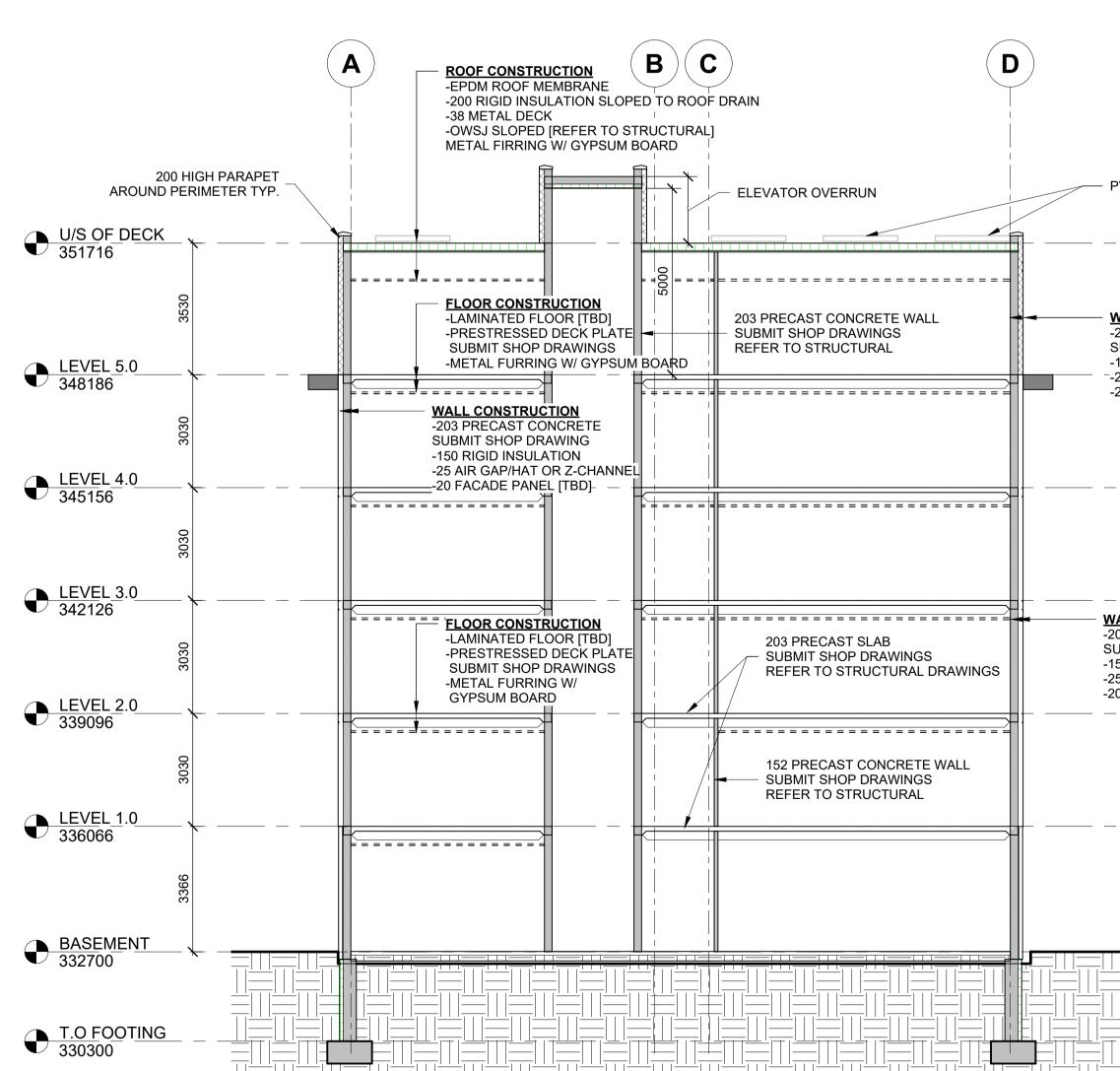


1 U/S OF DECK SCALE: 1 : 100

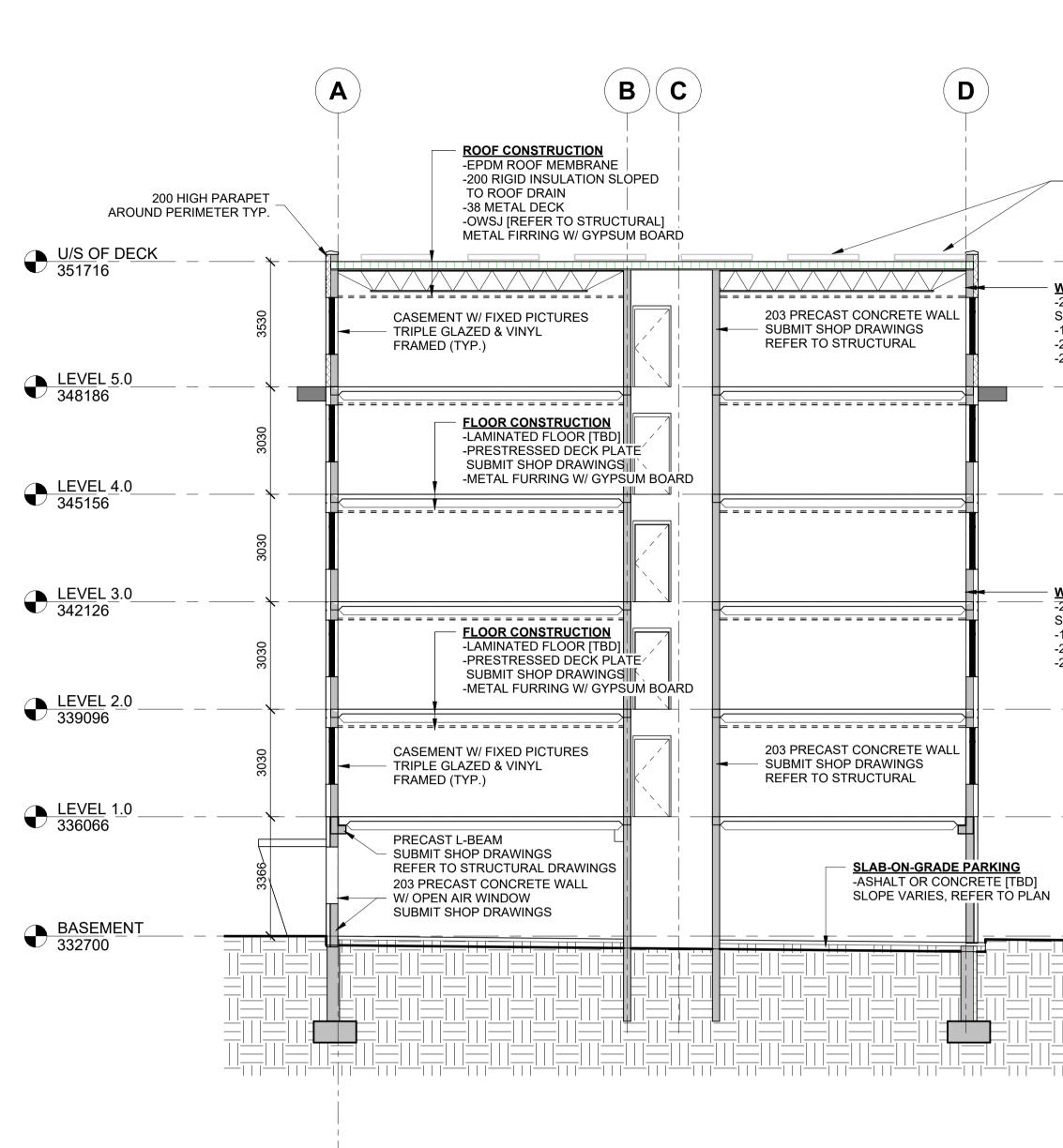
CNT FILE PATH: GO TO SHEET TYPE PROP.



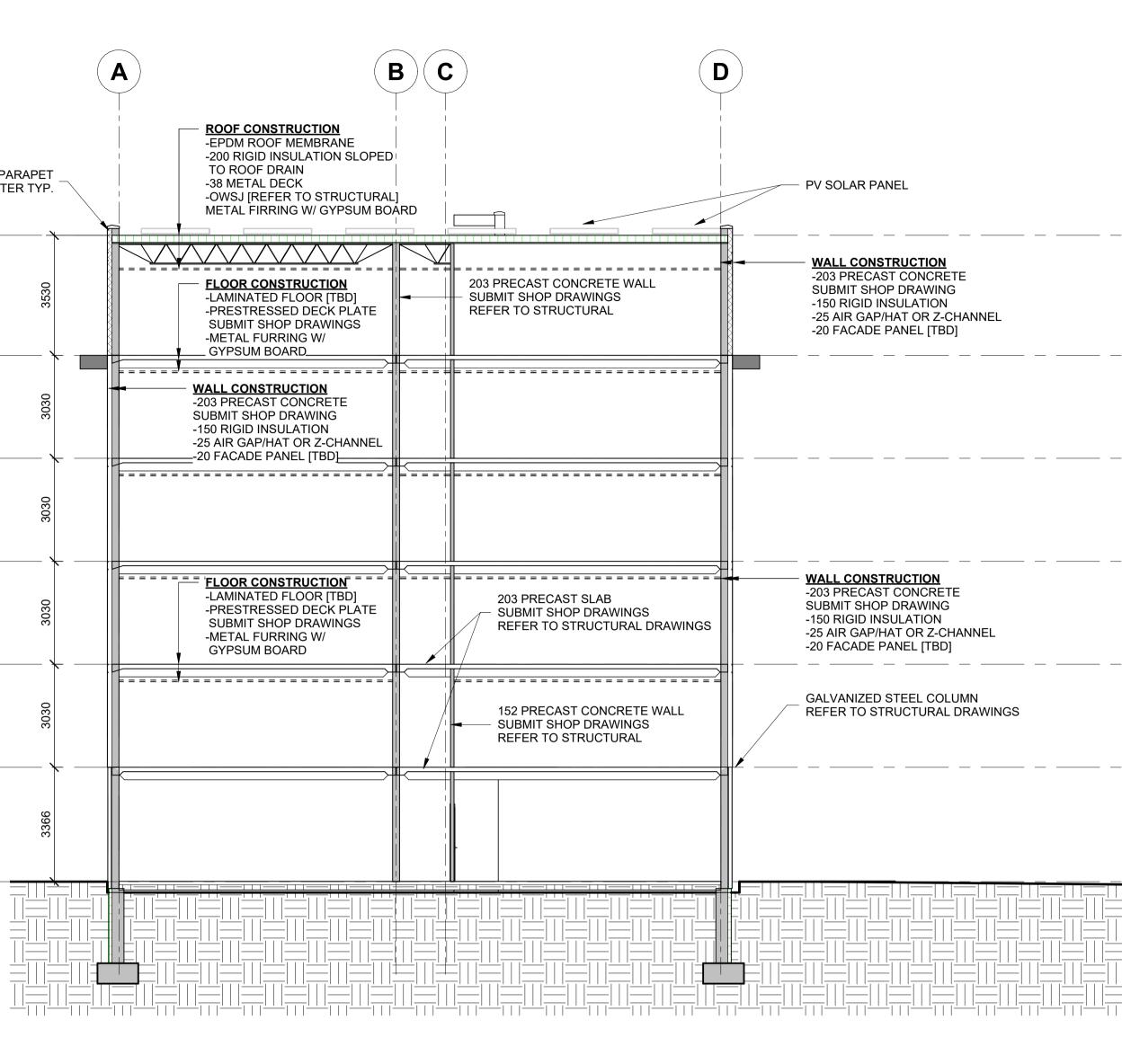




BUILDING SECTION-1 SCALE: 1 : 100

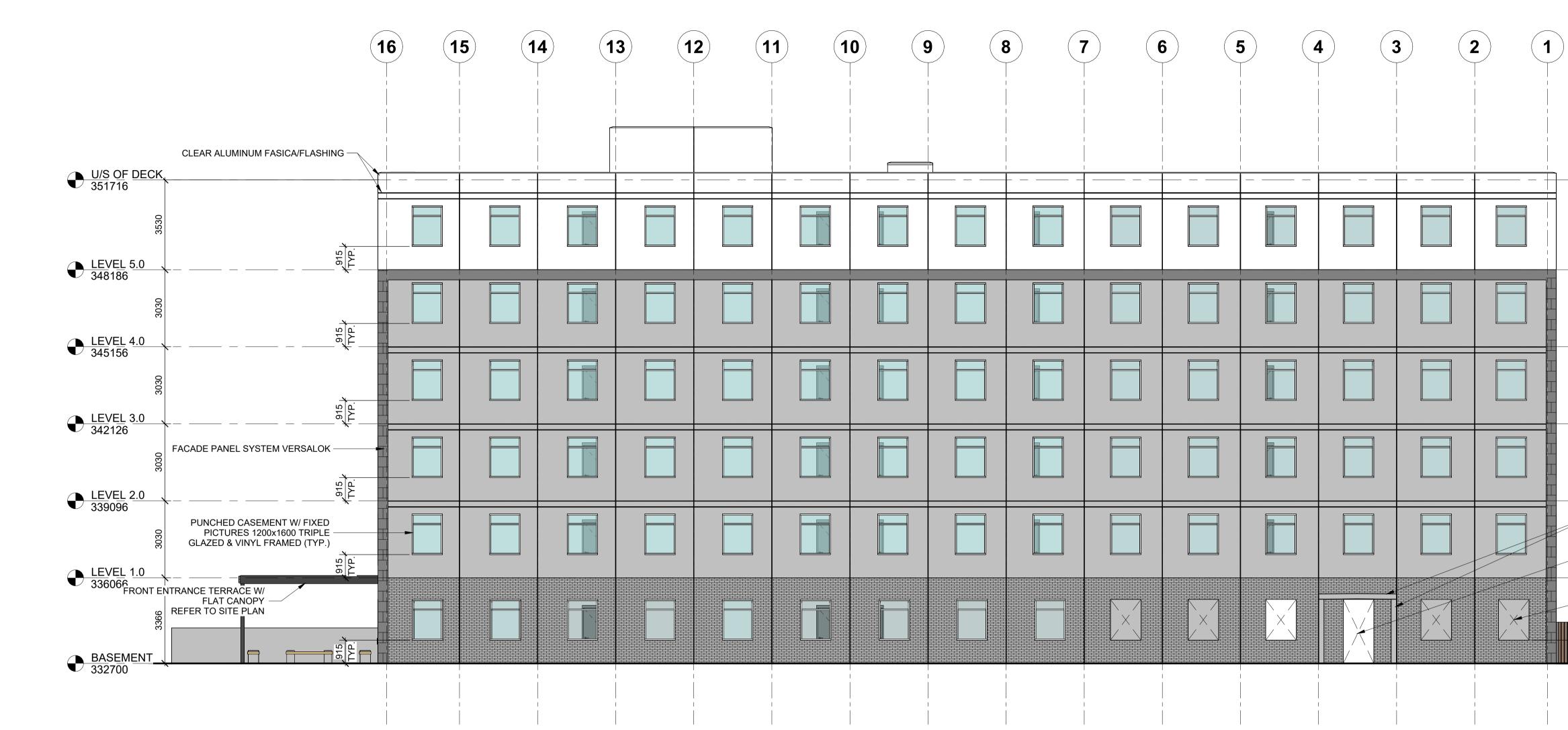


SOLAR PV PANEL	200 HIGH PAR AROUND PERIMETER
WALL CONSTRUCTION -203 PRECAST CONCRETE SUBMIT SHOP DRAWING -150 RIGID INSULATION	U/S OF DECK 351716
-25 AIR GAP/HAT OR Z-CHANNEL -20 FACADE PANEL [TBD]	<u>LEVEL 5.0</u> 348186
	<u>LEVEL 4.0</u> 345156
WALL CONSTRUCTION -203 PRECAST CONCRETE SUBMIT SHOP DRAWING -150 RIGID INSULATION -25 AIR GAP/HAT OR Z-CHANNEL	<u>LEVEL 3.0</u> 342126
-23 AIR GAP/HAT OR Z-CHANNEL -20 FACADE PANEL [TBD]	<u>LEVEL 2.0</u> 339096
	<u>LEVEL 1.0</u> 336066
	BASEMENT 332700
	2 BUILDING SECTI SCALE: 1 : 100
PV SOLAR PANEL	
WALL CONSTRUCTION -203 PRECAST CONCRETE SUBMIT SHOP DRAWING	
-150 RIGID INSULATION -25 AIR GAP/HAT OR Z-CHANNEL	
WALL CONSTRUCTION -203 PRECAST CONCRETE SUBMIT SHOP DRAWING -150 RIGID INSULATION -25 AIR GAP/HAT OR Z-CHANNEL -20 FACADE PANEL [TBD]	

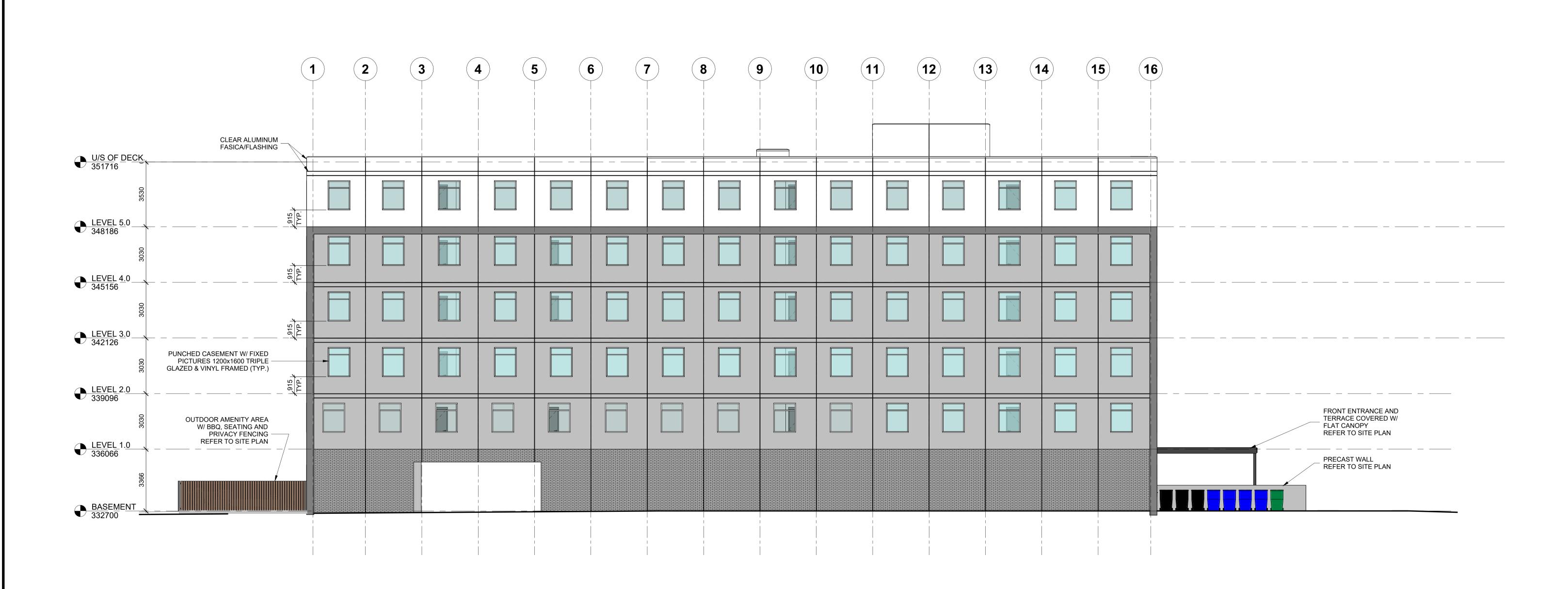


TION-2

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·	
	B23-12-19REISSUED FOR SPA PRE-CONSULTATIONCVLA23-08-25ISSUED FOR SPA PRE-CONSULTATIONCVL#DATEDESCRIPTIONBY
	PROJECT SPEEDVALE AFFORDABLE HOUSING MANHATTAN COURT & SPEEDVALE AVE E GUELPH, ON POSTAL CODE [TBD]
	DRAWING BUILDING SECTIONS PROJECT NO.: 23136 PROJECT DATE: 2023-07-20 DRAWN BY: CVL CHECKED BY: CK
	SCALE: 1:100 DRAWING NO. A3.01



NORTH BUILDING 1 ELEVATION SCALE: 1 : 100



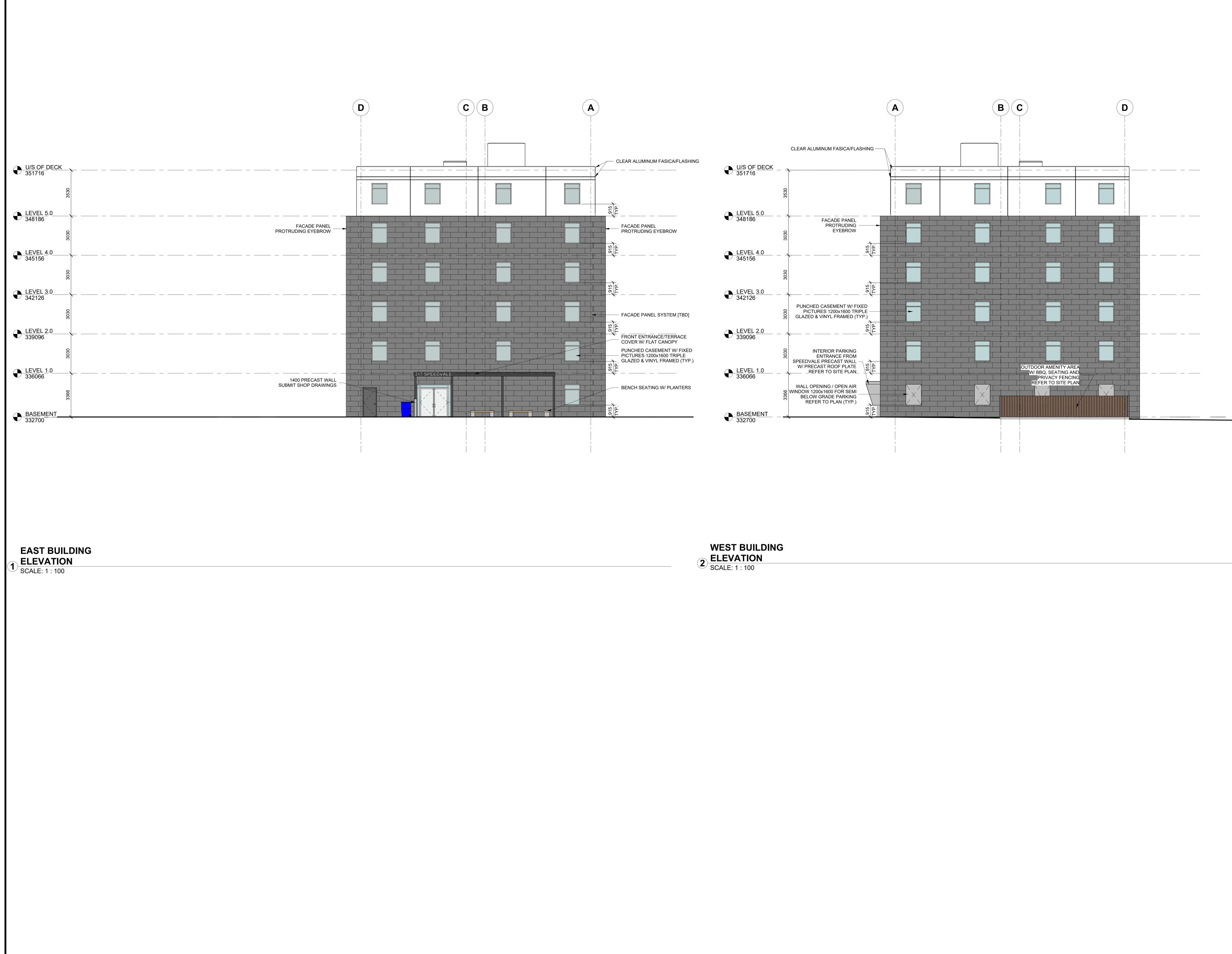
SOUTH BUILDING 2 ELEVATION SCALE: 1 : 100

CNT FILE PATH: GO TO SHEET TYPE PROP.

_____ INTERIOR PARKING ENTRANCE FROM — SPEEDVALE PRECAST WALL W/ PRECAST ROOF PLATE REFER TO SITE PLAN WALL OPENING FOR ACCESS TO INTERIOR PARKING _____ WALL OPENING / OPEN AIR — WINDOW 1200x1600 REFER TO PLAN (TYP.) AMENITY AREA REFER TO SITE PLAN

_____ _ _ _ _ _ _ _ _ _ _ _ _ _

Newton Group Ltd.
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B 23-12-19 REISSUED FOR SPA PRE-CONSULTATION CVL A 23-08-25 ISSUED FOR SPA PRE-CONSULTATION CVL # DATE DESCRIPTION BY
DATE DESCRIPTION BY
PROJECT SPEEDVALE AFFORDABLE
HOUSING MANHATTAN COURT & SPEEDVALE AVE E GUELPH, ON
POSTAL CODE [TBD] DRAWING
BUILDING ELEVATIONS PROJECT NO.:
23136 PROJECT DATE: 2023-07-20 DRAWN BY:
CVL CHECKED BY: CK SCALE: 1 : 100
A4.01



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B 23-12-19 REISSUED FOR SPA PRE-CONSULTATION CVL A 23-08-25 ISSUED FOR SPA PRE-CONSULTATION CVL # DATE DESCRIPTION BY
PROJECT SPEEDVALE AFFORDABLE HOUSING MANHATTAN COURT & SPEEDVALE AVE E GUELPH, ON POSTAL CODE [TBD]
DRAWING BUILDING ELEVATIONS
23136 PROJECT DATE: 2023-07-20 DRAWN BY: CVL CHECKED BY: CK SCALE: 1:100
DRAWING NO. A4.02

Appendix F Certificates of Analysis (Groundwater)





ALS Canada Ltd.



CERTIFICATE OF ANALYSIS (GUIDELINE EVALUATION)

Work Order	: WT2331537	Page	: 1 of 7
Client	: Englobe Corp.	Laboratory	: ALS Environmental - Waterloo
Contact	: Jessica Godin	Account Manager	: Gayle Braun
Address	: 353 Bridge Street East Kitchener ON Canada N2K 2Y5	Address	: 60 Northland Road, Unit 1 Waterloo, Ontario Canada N2V 2B8
Telephone	:	Telephone	+1 519 886 6910
Project	: 2302109.002	Date Samples Received	: 30-Sep-2023 09:00
PO	:	Date Analysis Commenced	: 30-Sep-2023
C-O-C number	: 20-1083265	Issue Date	: 06-Oct-2023 13:43
Sampler	: AG		
Site	:		
Quote number	: SANITARY & STORM BYLAWS		
No. of samples received	: 2		
No. of samples analysed	: 2		

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
- Guideline Comparison

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 US FDA 21 CFR Part 11.

Signatories	Position	Laboratory Department
Greg Pokocky	Manager - Inorganics	Inorganics, Waterloo, Ontario
Greg Pokocky	Manager - Inorganics	Metals, Waterloo, Ontario
Hannah Lewis	Inorganics Analyst	Inorganics, Waterloo, Ontario
John Tang	Lab Analyst	Inorganics, Waterloo, Ontario
Rachel Cameron	Supervisor - Semi-Volatile Extractions	Organics, Waterloo, Ontario
Ruby Sujeepan		Microbiology, Waterloo, Ontario

Page	:	2 of 7
Work Order	:	WT2331537
Client	:	Englobe Corp.
Project	:	2302109.002



Summary of Guideline Breaches by Sample

SampleID/Client ID	Matrix	Analyte	Analyte Summary	Guideline	Category	Result	Limit
MW23-05 GS	Water	Solids, total suspended [TSS]		GUESUB	STM	50.4 mg/L	15 mg/L
	Water	Zinc, total		GUESUB	STM	0.0519 mg/L	0.05 mg/L

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.

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to fitness for a particular purpose, or non-infringement. ALS assumes no responsibility for errors or omissions in the information. Guidelines are not adjusted for the hardness, pH or temperature of the sample (the most conservative values are used). Measurement uncertainty is not applied to test results prior to comparison with specified criteria values.

Key : LOR: Limit of Reporting (detection limit).

Unit	Description
CFU/100mL	colony forming units per hundred millilitres
mg/L	milligrams per litre
pH units	pH units

>: greater than.

<: less than.

Red shading is applied where the result or the LOR is greater than the Guideline Upper Limit (or lower than the Guideline Lower Limit, if applicable).

For drinking water samples, Red shading is applied where the result for E.coli, fecal or total coliforms is greater than or equal to the Guideline Upper Limit.

Page	:	3 of 7
Work Order	:	WT2331537
Client	:	Englobe Corp.
Project	:	2302109.002



Qualifiers

Qualifier	Description
BODL	Limit of Reporting for BOD was increased to account for the largest volume of sample tested.
DLDS	Detection Limit Raised: Dilution required due to high Dissolved Solids / Electrical
DLHC	Conductivity. Detection Limit Raised: Dilution required due to high concentration of test analyte(s).
DLUI	Detection Limit Raised: Unknown interference generated an apparent false positive test result.

Page	:	4 of 7
Work Order	:	WT2331537
Client	:	Englobe Corp.
Project	:	2302109.002



Analytical Results Evaluation

Matrix: Water		Client	sample ID	MW23-04 GS	MW23-05 GS	 	 	
		Sampling	date/time	29-Sep-2023	29-Sep-2023	 	 	
				14:50	15:45			
		S	Sub-Matrix	Water	Water	 	 	
Analyte	CAS Number	Method/Lab	Unit	WT2331537-001	WT2331537-002	 	 	
Physical Tests								
рН		E108/WT	pH units	7.76	7.55	 	 	
Solids, total suspended [TSS]		E160/WT	mg/L	<3.0	50.4	 	 	
Anions and Nutrients								
Chloride	16887-00-6	E235.CI/WT	mg/L	1100 DLDS	916 DLDS	 	 	
Fluoride	16984-48-8	E235.F/WT	mg/L	<0.200 DLDS	<0.100 DLDS	 	 	
Kjeldahl nitrogen, total [TKN]		E318/WT	mg/L	0.214	0.262	 	 	
Phosphorus, total	7723-14-0	E372-U/WT	mg/L	0.0052	0.0529	 	 	
Sulfate (as SO4)	14808-79-8	E235.SO4/WT	mg/L	55.7 DLDS	39.6 DLDS	 	 	
Cyanides								
Cyanide, strong acid dissociable (Total)		E333/WT	mg/L	<0.0020	<0.0020	 	 	
Microbiological Tests								
Coliforms, thermotolerant [fecal]		E012.FC/WT	CFU/100 mL	Not Detected	Not Detected	 	 	
Total Metals								
Aluminum, total	7429-90-5	E420/WT	mg/L	0.0350 DLHC	0.461 DLHC	 	 	
Antimony, total	7440-36-0	E420/WT	mg/L	<0.00100 DLHC	<0.00100 DLHC	 	 	
Arsenic, total	7440-38-2	E420/WT	mg/L	<0.00100 DLHC	<0.00100 DLHC	 	 	
Bismuth, total	7440-69-9	E420/WT	mg/L	<0.000500 DLHC	<0.000500 DLHC	 	 	
Cadmium, total	7440-43-9	E420/WT	mg/L	0.0000585 DLHC	0.000207 DLHC	 	 	
Chromium, total	7440-47-3	E420/WT	mg/L	<0.00500 DLHC	<0.00500 DLHC	 	 	
Cobalt, total	7440-48-4	E420/WT	mg/L	<0.00100 DLHC	<0.00100 DLHC	 	 	
Copper, total	7440-50-8	E420/WT	mg/L	<0.00500 DLHC	<0.00500 DLHC	 	 	
Iron, total	7439-89-6	E420/WT	mg/L	<0.100 DLHC	0.801 DLHC	 	 	
Lead, total	7439-92-1	E420/WT	mg/L	<0.000500 DLHC	0.00517 DLHC	 	 	
Manganese, total	7439-96-5	E420/WT	mg/L	0.0596 DLHC	0.0525 DLHC	 	 	
Mercury, total	7439-97-6	E508/WT	mg/L	<0.000050	<0.000050	 	 	
Molybdenum, total	7439-98-7	E420/WT	mg/L	0.00117 DLHC	0.000673 DLHC	 	 	

Page	:	5 of 7
Work Order	:	WT2331537
Client	:	Englobe Corp.
Project	:	2302109.002



Analytical Results Evaluation

Matrix: Water		Client	sample ID	MW23-04 GS	MW23-05 GS	 	 	
		Sampling	date/time	29-Sep-2023 14:50	29-Sep-2023 15:45	 	 	
		s	Sub-Matrix	Water	Water	 	 	
Analyte	CAS Number	Method/Lab	Unit	WT2331537-001	WT2331537-002	 	 	
Total Metals								
Nickel, total	7440-02-0	E420/WT	mg/L	<0.00500 DLHC	<0.00500 DLHC	 	 	
Selenium, total	7782-49-2	E420/WT	mg/L	0.00126 DLHC	<0.000500 DLHC	 	 	
Silver, total	7440-22-4	E420/WT	mg/L	<0.000100 DLHC	<0.000100 DLHC	 	 	
Tin, total	7440-31-5	E420/WT	mg/L	<0.00100 DLHC	<0.00100 DLHC	 	 	
Titanium, total	7440-32-6	E420/WT	mg/L	<0.00300 DLHC	<0.0159 DLHC, DLUI	 	 	
Vanadium, total	7440-62-2	E420/WT	mg/L	<0.00500 DLHC	<0.00500 DLHC	 	 	
Zinc, total	7440-66-6	E420/WT	mg/L	<0.0300 DLHC	0.0519 DLHC	 	 	
Aggregate Organics								
Carbonaceous biochemical oxygen dema	nd	E555/WT	mg/L	<3.0 ^{BODL}	<3.0 BODL	 	 	
[CBOD] Oil & grease (gravimetric)		E567/WT	mg/L	5.6	<5.0	 	 	
Oil & grease, animal/vegetable (gravimetri	ic)	EC567A.SG/WT	mg/L	5.6	<5.0	 	 	
Oil & grease, mineral (gravimetric)		E567SG/WT	mg/L	<5.0	<5.0	 	 	
Phenols, total (4AAP)		E562/WT	mg/L	<0.0010	<0.0010	 	 	

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Page	:	6 of 7
Work Order	:	WT2331537
Client	:	Englobe Corp.
Project	:	2302109.002



Summary of Guideline Limits

Analyte	CAS Number	Unit	GUESUB	GUESUB				
			SAN	STM				
Physical Tests pH		pH units		C 0 mll unite		1	1	1
μμ		pH units	5.5 - 9.5 pH units	6 - 9 pH units				
Solids, total suspended [TSS]		mg/L	350 mg/L	15 mg/L				
Anions and Nutrients								
Chloride	16887-00-6	mg/L	1500 mg/L					
Fluoride	16984-48-8	mg/L	10 mg/L					
Kjeldahl nitrogen, total [TKN]		mg/L	100 mg/L					
Phosphorus, total	7723-14-0	mg/L	10 mg/L					
Sulfate (as SO4)	14808-79-8	mg/L	1500 mg/L					
Cyanides								
Cyanide, strong acid dissociable (Total)		mg/L	2 mg/L					
Microbiological Tests								
Coliforms, thermotolerant [fecal]		CFU/100mL		200				
				CFU/100mL			1	1
Fotal Metals	7400.00.5	m c //	50 mm/l			1		
Aluminum, total	7429-90-5	mg/L	50 mg/L					
Antimony, total	7440-36-0	mg/L	5 mg/L				_	
Arsenic, total	7440-38-2	mg/L	1 mg/L					
Bismuth, total	7440-69-9	mg/L	5 mg/L				_	
Cadmium, total	7440-43-9	mg/L	1 mg/L	0.001 mg/L				
Chromium, total	7440-47-3	mg/L	5 mg/L	0.2 mg/L				
Cobalt, total	7440-48-4	mg/L	5 mg/L					
Copper, total	7440-50-8	mg/L	3 mg/L	0.01 mg/L				
Iron, total	7439-89-6	mg/L	50 mg/L					
Lead, total	7439-92-1	mg/L	5 mg/L	0.05 mg/L				
Manganese, total	7439-96-5	mg/L	5 mg/L					
Mercury, total	7439-97-6	mg/L	0.1 mg/L	0.001 mg/L				
Molybdenum, total	7439-98-7	mg/L	5 mg/L					
Nickel, total	7440-02-0	mg/L	3 mg/L	0.05 mg/L				
Selenium, total	7782-49-2	mg/L	5 mg/L					
Silver, total	7440-22-4	mg/L	5 mg/L					
Tin, total	7440-31-5	mg/L	5 mg/L					
Titanium, total	7440-32-6	mg/L	5 mg/L					
Vanadium, total	7440-62-2	mg/L	5 mg/L					
Zinc, total	7440-66-6	mg/L	3 mg/L	0.05 mg/L				
Aggregate Organics								
Carbonaceous biochemical oxygen demand [CBOD]		mg/L	300 mg/L	15 mg/L				

Page	:	7 of 7
Work Order	:	WT2331537
Client	:	Englobe Corp.
Project	:	2302109.002



Analyte	CAS Number	Unit	GUESUB	GUESUB			
			SAN	STM			
Aggregate Organics - Continued							
Oil & grease (gravimetric)		mg/L					
Oil & grease, animal/vegetable (gravimetric)		mg/L	100 mg/L				
Oil & grease, mineral (gravimetric)		mg/L	15 mg/L				
Phenols, total (4AAP)		mg/L	1 mg/L				

Please refer to the General Comments section for an explanation of any qualifiers detected.

Key:

GUESUB	Ontario Guelph Sanitary and Storm Sewer By-Law 15202 (1996)
SAN	Ontario City of Guelph Sanitary Sewer Use By-Law 15202
STM	Ontario City of Guelph Storm Sewer Use By-Law 15202



QUALITY CONTROL INTERPRETIVE REPORT

Work Order	WT2331537	Page	: 1 of 11
Client	Englobe Corp.	Laboratory	: ALS Environmental - Waterloo
Contact	Jessica Godin	Account Manager	: Gayle Braun
Address	353 Bridge Street East	Address	: 60 Northland Road, Unit 1
	Kitchener ON Canada N2K 2Y5		Waterloo, Ontario Canada N2V 2B8
Telephone	:	Telephone	: +1 519 886 6910
Project	: 2302109.002	Date Samples Received	: 30-Sep-2023 09:00
PO	:	Issue Date	: 06-Oct-2023 13:44
C-O-C number	: 20-1083265		
Sampler	: AG		
Site	:		
Quote number	: SANITARY & STORM BYLAWS		
No. of samples received	:2		
No. of samples analysed	:2		

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) <u>No</u> Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples • No Quality Control Sample Frequency Outliers occur.

Page Work Order	:	3 of 11 WT2331537
Client	:	Englobe Corp.
Project	:	2302109.002



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					E١	/aluation: × =	Holding time exce	edance ; •	= Within	Holding Tim
Analyte Group	Method	Sampling Date	Ext	traction / P	reparation			Analys	sis	
Container / Client Sample ID(s)			Preparation	Holdin	g Times	Eval	Analysis Date	Holding	g Times	Eval
			Date	Rec	Actual			Rec	Actual	
Aggregate Organics : Biochemical Oxygen Demand (Carbonaceous) - 5 day										
HDPE [BOD HT-4d]										
MW23-04 GS	E555	29-Sep-2023					30-Sep-2023	4 days	0 days	✓
Aggregate Organics : Biochemical Oxygen Demand (Carbonaceous) - 5 day										
HDPE [BOD HT-4d]										
MW23-05 GS	E555	29-Sep-2023					30-Sep-2023	4 days	0 days	✓
Aggregate Organics : Mineral Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid)										
MW23-04 GS	E567SG	29-Sep-2023	02-Oct-2023	28	3 days	1	02-Oct-2023	40 days	0 days	✓
				days						
Aggregate Organics : Mineral Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid)										
MW23-05 GS	E567SG	29-Sep-2023	02-Oct-2023	28	3 days	1	02-Oct-2023	40 days	0 days	1
				days						
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid)	5507									
MW23-04 GS	E567	29-Sep-2023	02-Oct-2023	28	3 days	1	02-Oct-2023	40 days	0 days	1
				days						
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid)	E567	20 San 2022	02-Oct-2023		2 days	1	02-Oct-2023	40 days	0 days	1
MW23-05 GS	E007	29-Sep-2023	02-Oct-2023	28	3 days	×	02-Oct-2023	40 days	0 days	*
				days						
Aggregate Organics : Phenols (4AAP) in Water by Colorimetry										
Amber glass total (sulfuric acid) [ON MECP] MW23-04 GS	E562	29-Sep-2023	02-Oct-2023		3 days	1	03-Oct-2023	28 days	1 days	1
IVIVV23-04 GS	EDOZ	29-9eh-2023	UZ-UCI-2U23	28	3 days	•	03-0CI-2023	∠o days	4 days	v
				days						

Page	:	4 of 11
Work Order	:	WT2331537
Client	:	Englobe Corp.
Project	:	2302109.002



Centamer Claims Ample 10(s) Programmon Hotting Times Eval Analysis Data Hotting Times Eval Analysis Data Times Rec Actual tiggregate Organice : Phenols (AAAP) in Water by Colorimetry Exal Analysis Data Status Status Status Status Analysis Data Actual Keit Actual Keit Analysis Data Actual Keit Keit Actual Keit Actual Keit Actual Keit Keit Actual Keit Actual Keit Keit Actual	latrix: Water					E	valuation: × =	Holding time exce	edance ; 🔹	= Within	Holding Ti
Image: Control Contro Control Control Control Control Control Control Control Control C	Analyte Group	Method	Sampling Date	Ext	traction / Pr	eparation			Analys	sis	
Image: Control Contro Control Control Control Control Control Control Control Control C	Container / Client Sample ID(s)			Preparation	Holding	g Times	Eval	Analysis Date	Holding	g Times	Eval
Amber glass total (sulfurd: acid) [ON MECP] E562 29-Sep-2023 02-Oct-2023 28 days 3 days ·· 93-Oct-2023 28 days 4 days ·· NM23-95 GS Chione and Mutterby IC E235.Cl 29-Sep-2023 02-Oct-2023 28 days 3 days ·· 02-Oct-2023 28 days 4 days 2-Oct-2023 28 days 4 days ·· 03-Oct-2023 28 days 4 days ·· 03-Oct-2023 28 days 4 days ·· ·· 02-Oct-2023 28 days 4 days ·· ·· 03-Oct-2023 28 days <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Rec</td><td>Actual</td><td></td></td<>									Rec	Actual	
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Number and Nutrients : Chloride in Water by ICE235.Cl $29-Sep-2023$ $02-Oct-2023$ 28 days $3 days$ \checkmark $02-Oct-2023$ $28 days$ $3 days$ \checkmark NUM23-04 GSE235.Cl $29-Sep-2023$ $03-Oct-2023$ 28 days $4 days$ \checkmark $03-Oct-2023$ $28 days$ $4 days$ \checkmark NUM23-04 GSE235.Cl $29-Sep-2023$ $03-Oct-2023$ 28 days $4 days$ \checkmark $03-Oct-2023$ $28 days$ $4 days$ \checkmark NW23-04 GSE235.Fl $29-Sep-2023$ $02-Oct-2023$ 28 days $4 days$ \checkmark \bullet $02-Oct-2023$ $28 days$ $3 days$ \checkmark NW23-04 GSE235.Fl $29-Sep-2023$ $02-Oct-2023$ 28 days $4 days$ \checkmark \bullet \bullet \bullet NW23-04 GSE235.Fl $29-Sep-2023$ $03-Oct-2023$ 28 days $4 days$ \checkmark \bullet \bullet \bullet NW23-04 GSE235.Fl $29-Sep-2023$ $03-Oct-2023$ 28 days $4 days$ \checkmark \bullet \bullet \bullet NW23-04 GSE235.SO4 $29-Sep-2023$ $03-Oct-2023$ 28 days a^2 days a^2 days a^2 a^2 days									,	,	
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Anions and Nutrients : Sulfate in Water by ICHDPE [ON MECP] MW23-05 GSE235.SO429-Sep-202303-Oct-202328 days4 days✓03-Oct-202328 days4 days✓Amber glass total (sulfuric acid) [ON MECP] MW23-04 GSE31829-Sep-202303-Oct-202328 days4 days✓04-Oct-202328 days5 days✓Anions and Nutrients : Total Kjeldahl Nitrogen by Fluorescence (Low Level)E31829-Sep-202303-Oct-202328 days4 days✓04-Oct-202328 days5 days✓Amber glass total (sulfuric acid) [ON MECP] MW23-05 GSE31829-Sep-202303-Oct-202328 days4 days✓04-Oct-202328 days5 days✓	111123-04 65	L200.004	20-00p-2020	02-001-2020		5 uays	, i	02-001-2020	20 uays	5 uays	•
HDPE [ON MECP] MW23-05 GSE235.SO429-Sep-202303-Oct-202328 days4 days✓03-Oct-202328 days4 days✓Amber glass total (sulfuric acid) [ON MECP] MW23-04 GSE31829-Sep-202303-Oct-202328 days4 days✓04-Oct-202328 days5 days✓Amber glass total (sulfuric acid) [ON MECP] MW23-04 GSE31829-Sep-202303-Oct-202328 days4 days✓04-Oct-202328 days5 days✓Amber glass total (sulfuric acid) [ON MECP] MW23-05 GSE31829-Sep-202303-Oct-202328 days✓04-Oct-202328 days5 days✓					uays						
MW23-05 GSE235.SO429-Sep-202303-Oct-202328 days4 days4 days <th< td=""><td></td><td></td><td></td><td></td><td>1</td><td></td><td></td><td></td><td>1</td><td></td><td></td></th<>					1				1		
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Amber glass total (sulfuric acid) [ON MECP] MW23-04 GS Amber glass total (sulfuric acid) [ON MECP] MW23-04 GS Amber glass total (sulfuric acid) [ON MECP] MW23-05 GS E318 E31	MW23-05 GS	E235.SO4	29-Sep-2023	03-Oct-2023		4 days	~	03-Oct-2023	28 days	4 days	•
Amber glass total (sulfuric acid) [ON MECP] MW23-04 GSE31829-Sep-202303-Oct-202328 days4 days✓04-Oct-202328 days5 days✓Amber glass total (sulfuric acid) [ON MECP] MW23-05 GSE31829-Sep-202303-Oct-2023284 days✓04-Oct-202328 days5 days✓					days						
MW23-04 GSE31829-Sep-202303-Oct-202328 days4 days✓04-Oct-202328 days5 days✓Minons and Nutrients : Total Kjeldahl Nitrogen by Fluorescence (Low Level)Amber glass total (sulfuric acid) [ON MECP] MW23-05 GSE31829-Sep-202303-Oct-2023284 days✓04-Oct-202328 days5 days✓	Anions and Nutrients : Total Kjeldahl Nitrogen by Fluorescence (Low Level)										
Amber glass total (sulfuric acid) [ON MECP] MW23-05 GS E318 29-Sep-2023 03-Oct-2023 28 4 days \checkmark 04-Oct-2023 28 days 5 days \checkmark	Amber glass total (sulfuric acid) [ON MECP]										
Amions and Nutrients : Total Kjeldahl Nitrogen by Fluorescence (Low Level) Amber glass total (sulfuric acid) [ON MECP] MW23-05 GS E318 29-Sep-2023 03-Oct-2023 28 4 days	MW23-04 GS	E318	29-Sep-2023	03-Oct-2023	28	4 days	1	04-Oct-2023	28 days	5 days	✓
Amber glass total (sulfuric acid) [ON MECP] E318 29-Sep-2023 03-Oct-2023 28 4 days ✓ 04-Oct-2023 28 days 5 days ✓					days						
Amber glass total (sulfuric acid) [ON MECP] E318 29-Sep-2023 03-Oct-2023 28 4 days ✓ 04-Oct-2023 28 days 5 days ✓	Anions and Nutrients : Total Kjeldahl Nitrogen by Fluorescence (Low Level)						1		1		
MW23-05 GS E318 29-Sep-2023 03-Oct-2023 28 4 days ✓ 04-Oct-2023 28 days 5 days ✓											
		E318	29-Sep-2023	03-Oct-2023	28	4 days	1	04-Oct-2023	28 days	5 days	✓
					days	,			,-	Í	

Page	:	5 of 11
Work Order	:	WT2331537
Client	:	Englobe Corp.
Project	:	2302109.002



nalyte Group Container / Client Sample ID(s)	Method	Sampling Date	Evi	traction (D	eneration					
Container / Client Sample ID(s)		Camping Date	Extraction / Preparation				Analysis			
			Preparation	Holdin	g Times	Eval	Analysis Date	Holding	Times	Eval
			Date	Rec	Actual			Rec	Actual	
nions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid) [ON MECP]										
MW23-04 GS	E372-U	29-Sep-2023	02-Oct-2023	28 days	3 days	1	03-Oct-2023	28 days	4 days	✓
nions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)					1 1					
Amber glass total (sulfuric acid) [ON MECP]										
MW23-05 GS	E372-U	29-Sep-2023	02-Oct-2023	28 days	3 days	4	03-Oct-2023	28 days	4 days	~
yanides : Total Cyanide										
IV-inhibited HDPE - total (sodium hydroxide)										
MW23-04 GS	E333	29-Sep-2023	04-Oct-2023	14	5 days	✓	04-Oct-2023	14 days	5 days	✓
				days						
/anides : Total Cyanide										
IV-inhibited HDPE - total (sodium hydroxide)										
MW23-05 GS	E333	29-Sep-2023	04-Oct-2023	14	5 days	✓	04-Oct-2023	14 days	5 days	✓
				days						
icrobiological Tests : Thermotolerant (Fecal) Coliform (MF-mFC)										
Sterile HDPE (Sodium thiosulphate) [ON MECP]										
MW23-05 GS	E012.FC	29-Sep-2023					30-Sep-2023	48 hrs	19 hrs	✓
icrobiological Tests : Thermotolerant (Fecal) Coliform (MF-mFC)					<u> </u>					
Sterile HDPE (Sodium thiosulphate) [ON MECP]										
MW23-04 GS	E012.FC	29-Sep-2023					30-Sep-2023	48 hrs	20 hrs	✓
nysical Tests : pH by Meter					1 1					
IDPE [ON MECP]										
MW23-04 GS	E108	29-Sep-2023	02-Oct-2023	14	3 days	✓	03-Oct-2023	14 days	4 days	✓
		·		days					-	
nysical Tests : pH by Meter				-	<u> </u>					
IDPE [ON MECP]										
MW23-05 GS	E108	29-Sep-2023	03-Oct-2023	14	4 days	✓	03-Oct-2023	14 days	4 days	✓
				days	,				ý	
nysical Tests : TSS by Gravimetry										
IDPE [ON MECP]										
	1	1		1	1 1		1	1		
MW23-04 GS	E160	29-Sep-2023					03-Oct-2023	7 days	4 days	✓

Page	:	6 of 11
Work Order	:	WT2331537
Client	:	Englobe Corp.
Project	:	2302109.002



Analyte Group	Method	Sampling Date	Ex	traction / Pi	reparation			Analys	sis	
Container / Client Sample ID(s)	Wiethod	Sumpling Date	Preparation		Holding Times		Analysis Date	Holding Times		Eval
			Date	Rec	Actual			Rec	Actual	
Physical Tests : TSS by Gravimetry										
HDPE [ON MECP]										
MW23-05 GS	E160	29-Sep-2023					03-Oct-2023	7 days	4 days	1
Total Metals : Total Mercury in Water by CVAAS										
Glass vial total (hydrochloric acid) [ON MECP]										
MW23-04 GS	E508	29-Sep-2023	02-Oct-2023	28	3 days	1	02-Oct-2023	28 days	3 days	1
				days						
Total Metals : Total Mercury in Water by CVAAS										
Glass vial total (hydrochloric acid) [ON MECP]										
MW23-05 GS	E508	29-Sep-2023	02-Oct-2023	28	3 days	1	02-Oct-2023	28 days	3 days	✓
				days						
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE total (nitric acid)										
MW23-04 GS	E420	29-Sep-2023	01-Oct-2023	180	2 days	1	02-Oct-2023	180	3 days	1
				days				days		
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE total (nitric acid)										
MW23-05 GS	E420	29-Sep-2023	01-Oct-2023	180	2 days	1	02-Oct-2023	180	3 days	✓
				days				days		

Legend & Qualifier Definitions

Rec. HT: ALS recommended hold time (see units).

Page	:	7 of 11
Work Order	:	WT2331537
Client	:	Englobe Corp.
Project	:	2302109.002



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 Quality Control Sample Type				ount	pecification; ✓ = QC frequency within specifica Frequency (%)		
	Method	QC Lot #	QC	Regular	Actual	Expected	Evaluation
Analytical Methods	Method	QC L01 #	40	rioguiui	Actual	Lxpecieu	Linuation
Laboratory Duplicates (DUP)		4400040		40		50	
Biochemical Oxygen Demand (Carbonaceous) - 5 day	E555	1163210	1	18	5.5	5.0	<u> </u>
Chloride in Water by IC	E235.Cl	1164101	2	25	8.0	5.0	✓
Fluoride in Water by IC	E235.F	1164103	2	20	10.0	5.0	✓
pH by Meter	E108	1164097	2	37	5.4	5.0	✓
Phenols (4AAP) in Water by Colorimetry	E562	1163732	1	14	7.1	5.0	✓
Sulfate in Water by IC	E235.SO4	1164104	2	20	10.0	5.0	✓
Thermotolerant (Fecal) Coliform (MF-mFC)	E012.FC	1162631	1	3	33.3	5.0	✓
Total Cyanide	E333	1167375	1	11	9.0	5.0	✓
Total Kjeldahl Nitrogen by Fluorescence (Low Level)	E318	1163730	1	20	5.0	5.0	✓
Total Mercury in Water by CVAAS	E508	1164162	1	20	5.0	5.0	✓
Total Metals in Water by CRC ICPMS	E420	1163647	1	20	5.0	5.0	✓
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	1163731	1	20	5.0	5.0	✓
TSS by Gravimetry	E160	1165994	1	20	5.0	4.7	1
Laboratory Control Samples (LCS)							
Biochemical Oxygen Demand (Carbonaceous) - 5 day	E555	1163210	1	18	5.5	5.0	✓
Chloride in Water by IC	E235.Cl	1164101	2	25	8.0	5.0	✓
Fluoride in Water by IC	E235.F	1164103	2	20	10.0	5.0	✓
Mineral Oil & Grease by Gravimetry	E567SG	1163441	1	9	11.1	5.0	~
Oil & Grease by Gravimetry	E567	1163440	1	15	6.6	5.0	✓
pH by Meter	E108	1164097	2	37	5.4	5.0	~
Phenols (4AAP) in Water by Colorimetry	E562	1163732	1	14	7.1	5.0	1
Sulfate in Water by IC	E235.SO4	1164104	2	20	10.0	5.0	~
Total Cyanide	E333	1167375	1	11	9.0	5.0	~
Total Kjeldahl Nitrogen by Fluorescence (Low Level)	E318	1163730	1	20	5.0	5.0	
Total Mercury in Water by CVAAS	E508	1164162	1	20	5.0	5.0	~
Total Metals in Water by CRC ICPMS	E420	1163647	1	20	5.0	5.0	<u> </u>
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	1163731	1	20	5.0	5.0	
TSS by Gravimetry	E160	1165994	1	20	5.0	4.7	
Method Blanks (MB)							
Biochemical Oxygen Demand (Carbonaceous) - 5 day	E555	1163210	1	18	5.5	5.0	✓
Chloride in Water by IC	E235.CI	1164101	2	25	8.0	5.0	1
Fluoride in Water by IC	E235.F	1164103	2	20	10.0	5.0	✓
Mineral Oil & Grease by Gravimetry	E567SG	1163441	1	9	11.1	5.0	
Oil & Grease by Gravimetry	E567	1163440	1	15	6.6	5.0	
Phenols (4AAP) in Water by Colorimetry	E562	1163732	1	14	7.1	5.0	

Page	:	8 of 11
Work Order	:	WT2331537
Client	:	Englobe Corp.
Project	1	2302109.002



Matrix: Water		Evaluati	ion: × = QC frequ	ency outside sp	ecification; 🗸 =	QC frequency wit	thin specificatio
Quality Control Sample Type					Frequency (%)		
Analytical Methods	Method	QC Lot #	QC	Regular	Actual	Expected	Evaluation
Method Blanks (MB) - Continued							
Sulfate in Water by IC	E235.SO4	1164104	2	20	10.0	5.0	✓
Thermotolerant (Fecal) Coliform (MF-mFC)	E012.FC	1162631	1	3	33.3	5.0	✓
Total Cyanide	E333	1167375	1	11	9.0	5.0	✓
Total Kjeldahl Nitrogen by Fluorescence (Low Level)	E318	1163730	1	20	5.0	5.0	✓
Total Mercury in Water by CVAAS	E508	1164162	1	20	5.0	5.0	✓
Total Metals in Water by CRC ICPMS	E420	1163647	1	20	5.0	5.0	✓
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	1163731	1	20	5.0	5.0	✓
TSS by Gravimetry	E160	1165994	1	20	5.0	4.7	~
Matrix Spikes (MS)							
Chloride in Water by IC	E235.Cl	1164101	2	25	8.0	5.0	✓
Fluoride in Water by IC	E235.F	1164103	2	20	10.0	5.0	~
Phenols (4AAP) in Water by Colorimetry	E562	1163732	1	14	7.1	5.0	~
Sulfate in Water by IC	E235.SO4	1164104	2	20	10.0	5.0	✓
Total Cyanide	E333	1167375	1	11	9.0	5.0	~
Total Kjeldahl Nitrogen by Fluorescence (Low Level)	E318	1163730	1	20	5.0	5.0	✓
Total Mercury in Water by CVAAS	E508	1164162	1	20	5.0	5.0	~
Total Metals in Water by CRC ICPMS	E420	1163647	1	20	5.0	5.0	~
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	1163731	1	20	5.0	5.0	~

Page	:	9 of 11
Work Order	:	WT2331537
Client	:	Englobe Corp.
Project	:	2302109.002



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
Thermotolerant (Fecal) Coliform (MF-mFC)	E012.FC	Water	APHA 9222 D (mod)	Following filtration (0.45 μ m), and incubation at 44.5 \pm 0.2°C for 22-26 hours, colonies exhibiting characteristic morphology of the target organism are enumerated and
	ALS Environmental -			confirmed.
	Waterloo			
pH by Meter	E108	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,
	ALS Environmental -			pH should be measured in the field within the recommended 15 minute hold time.
	Waterloo			
TSS by Gravimetry	E160	Water	APHA 2540 D (mod)	Total Suspended Solids (TSS) are determined by filtering a sample through a glass fibre filter, following by drying of the filter at $104 \pm 1^{\circ}$ C, with gravimetric measurement of the
	ALS Environmental -			filtered solids. Samples containing very high dissolved solid content (i.e. seawaters,
	Waterloo			brackish waters) may produce a positive bias by this method. Alternate analysis methods are available for these types of samples.
Chloride in Water by IC	E235.Cl	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and /or UV detection.
	ALS Environmental -			
	Waterloo			
Fluoride in Water by IC	E235.F	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and /or UV detection.
	ALS Environmental -			
	Waterloo			
Sulfate in Water by IC	E235.SO4	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and /or UV detection.
	ALS Environmental -			
	Waterloo			
Total Kjeldahl Nitrogen by Fluorescence (Low Level)	E318	Water	Method Fialab 100, 2018	TKN in water is determined by automated continuous flow analysis with membrane diffusion and fluorescence detection, after reaction with OPA (ortho-phthalaldehyde).
	ALS Environmental -			This method is approved under US EPA 40 CFR Part 136 (May 2021).
	Waterloo			
Total Cyanide	E333	Water	ISO 14403 (mod)	Total or Strong Acid Dissociable (SAD) Cyanide is determined by Continuous Flow Analyzer (CFA) with in-line UV digestion followed by colourmetric analysis.
	ALS Environmental -			
	Waterloo			Method Limitation: High levels of thiocyanate (SCN) may cause positive interference (up to 0.5% of SCN concentration).
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	Water	APHA 4500-P E (mod).	Total Phosphorus is determined colourimetrically using a discrete analyzer after heated persulfate digestion of the sample.
	ALS Environmental -			
	Waterloo			

Page Work Order	:	10 of 11 WT2331537
Client	:	Englobe Corp.
Project	:	2302109.002



Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Total Metals in Water by CRC ICPMS	E420	Water	EPA 200.2/6020B (mod)	Water samples are digested with nitric and hydrochloric acids, and analyzed by Collision/Reaction Cell ICPMS.
	ALS Environmental -		· · /	
	Waterloo			Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.
Total Mercury in Water by CVAAS	E508	Water	EPA 1631E (mod)	Water samples undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS
	ALS Environmental - Waterloo			
Biochemical Oxygen Demand (Carbonaceous)	E555	Water	APHA 5210 B (mod)	Samples are diluted and incubated for a specified time period, after which the oxygen
- 5 day				depletion is measured using a dissolved oxygen meter. Nitrification inhibitor is added to
5	ALS Environmental -			samples to prevent nitrogenous compounds from consuming oxygen resulting in only
	Waterloo			carbonaceous oxygen demand being reported by this method.
				Free chlorine is a negative interference in the BOD method; please advise ALS when free chlorine is present in samples.
Phenols (4AAP) in Water by Colorimetry	E562	Water	EPA 9066	This automated method is based on the distillation of phenol and subsequent reaction of the distillate with alkaline ferricyanide (K3Fe(CN)6) and 4-amino-antipyrine (4-AAP) to
	ALS Environmental -			form a red complex which is measured colorimetrically.
	Waterloo			
Oil & Grease by Gravimetry	E567	Water	BC MOE Lab Manual (Oil & Grease) (mod)	The entire water sample is extracted with hexane and the extract is evaporated to dryness. The residue is then weighed to determine Oil and Grease.
	ALS Environmental -			
	Waterloo			
Mineral Oil & Grease by Gravimetry	E567SG	Water	BC MOE Lab Manual	The entire water sample is extracted with hexane, followed by silica gel treatment after
			(Oil & Grease) (mod)	which the extract is evaporated to dryness. The residue is then weighed to determine
	ALS Environmental -			Mineral Oil and Grease.
	Waterloo	Water	APHA 5520 (mod)	
Animal & Vegetable Oil & Grease by Gravimetry	EC567A.SG	Water	APHA 5520 (IIIou)	Animal & vegetable oil and grease is calculated as follows: Oil & Grease (gravimetric) minus Mineral Oil & Grease (gravimetric)
Gravineuy	ALS Environmental -			Thinks Milleral Oli & Grease (gravinetic)
	Waterloo			
Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Digestion for TKN in water	EP318	Water	APHA 4500-Norg D	Samples are digested at high temperature using Sulfuric Acid with Copper catalyst,
			(mod)	which converts organic nitrogen sources to Ammonia, which is then quantified by the
	ALS Environmental -			analytical method as TKN. This method is unsuitable for samples containing high levels
	Waterloo			of nitrate. If nitrate exceeds TKN concentration by ten times or more, results may be biased low.
Digestion for Total Phosphorus in water	EP372	Water	APHA 4500-P E (mod).	Samples are heated with a persulfate digestion reagent.
			. /	
	ALS Environmental -			
	Waterloo			

Page	:	11 of 11
Work Order	:	WT2331537
Client	:	Englobe Corp.
Project	:	2302109.002



Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Oil & Grease Extraction for Gravimetry	EP567	Water	BC MOE Lab Manual	The entire water sample is extracted with hexane by liquid-liquid extraction.
			(Oil & Grease) (mod)	
	ALS Environmental -			
	Waterloo			

ALS Canada Ltd.



QUALITY CONTROL REPORT Work Order Page : 1 of 10 WT2331537 Client : Englobe Corp. Laboratory : ALS Environmental - Waterloo Jessica Godin Account Manager : Gayle Braun Contact Address Address : 353 Bridge Street East :60 Northland Road, Unit 1 Kitchener ON Canada N2K 2Y5 Waterloo, Ontario Canada N2V 2B8 Telephone Telephone :+1 519 886 6910 Project Date Samples Received : 30-Sep-2023 09:00 :2302109.002 PO Date Analysis Commenced : 30-Sep-2023 :----C-O-C number Issue Date 06-Oct-2023 13:44 :20-1083265 Sampler : AG Site · ____ Quote number SANITARY & STORM BYLAWS No. of samples received : 2 No. of samples analysed 2

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	Manager - Inorganics	Waterloo Inorganics, Waterloo, Ontario
Greg Pokocky	Manager - Inorganics	Waterloo Metals, Waterloo, Ontario
Hannah Lewis	Inorganics Analyst	Waterloo Inorganics, Waterloo, Ontario
John Tang	Lab Analyst	Waterloo Inorganics, Waterloo, Ontario
Rachel Cameron	Supervisor - Semi-Volatile Extractions	Waterloo Organics, Waterloo, Ontario
Ruby Sujeepan		Waterloo Microbiology, Waterloo, Ontario

Page :	2 of 10
Work Order :	WT2331537
Client :	Englobe Corp.
Project :	2302109.002



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.

Page	:	3 of 10
Work Order	:	WT2331537
Client	:	Englobe Corp.
Project	:	2302109.002



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							Labora	tory Duplicate (D	UP) 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	CLot: 1164097)										
WT2331477-001	Anonymous	рН		E108	0.10	pH units	8.21	8.19	0.244%	4%	
Physical Tests (QC	CLot: 1165090)										
WT2331569-001	Anonymous	рН		E108	0.10	pH units	7.55	7.59	0.528%	4%	
Physical Tests (QC	CLot: 1165994)										
WT2331516-002	Anonymous	Solids, total suspended [TSS]		E160	3.0	mg/L	55.8	60.8	8.58%	20%	
Anions and Nutrien	ts (QC Lot: 1163730)										
WT2331306-001	Anonymous	Kjeldahl nitrogen, total [TKN]		E318	0.500	mg/L	32.9	33.0	0.285%	20%	
Anions and Nutrien	ts (QC Lot: 1163731)										
WT2331369-001	Anonymous	Phosphorus, total	7723-14-0	E372-U	0.0040	mg/L	1.01	1.01	0.372%	20%	
Anions and Nutrien	ts (QC Lot: 1164101)										
WT2331505-001	Anonymous	Chloride	16887-00-6	E235.CI	0.50	mg/L	14.6	14.5	0.638%	20%	
Anions and Nutrien	ts (QC Lot: 1164103)										
WT2331505-001	Anonymous	Fluoride	16984-48-8	E235.F	0.020	mg/L	0.063	0.061	0.002	Diff <2x LOR	
Anions and Nutrien	ts (QC Lot: 1164104)										
WT2331505-001	Anonymous	Sulfate (as SO4)	14808-79-8	E235.SO4	0.30	mg/L	10.1	10.0	0.664%	20%	
Anions and Nutrien	ts (QC Lot: 1165085)										
WT2331306-001	Anonymous	Sulfate (as SO4)	14808-79-8	E235.SO4	0.30	mg/L	7.38	7.34	0.602%	20%	
Anions and Nutrien	ts (QC Lot: 1165086)										
WT2331306-001	Anonymous	Chloride	16887-00-6	E235.CI	0.50	mg/L	25.0	24.8	0.504%	20%	
Anions and Nutrien	ts (QC Lot: 1165087)										
WT2331306-001	Anonymous	Fluoride	16984-48-8	E235.F	0.020	mg/L	3.18	3.16	0.656%	20%	
Cyanides (QC Lot:	1167375)							1	1		
TY2309674-001	Anonymous	Cyanide, strong acid dissociable (Total)		E333	0.0020	mg/L	<0.0020	<0.0020	0	Diff <2x LOR	
Microbiological Tes	sts (QC Lot: 1162631)										
WT2331537-001	MW23-04 GS	Coliforms, thermotolerant [fecal]		E012.FC	1	CFU/100mL	<1	<1	0	Diff <2x LOR	
Total Metals (QC L	ot: 1163647)										
WT2331456-002	Anonymous	Aluminum, total	7429-90-5	E420	0.0030	mg/L	0.0549	0.0552	0.457%	20%	
		Antimony, total	7440-36-0	E420	0.00010	mg/L	0.00048	0.00048	0.000002	Diff <2x LOR	
		Arsenic, total	7440-38-2	E420	0.00010	mg/L	0.00209	0.00212	1.81%	20%	

Page	:	4 of 10
Work Order	:	WT2331537
Client	:	Englobe Corp.
Project	:	2302109.002



ub-Matrix: Water							Labora	ntory Duplicate (D	UP) Report		
aboratory sample ID.	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifi
Total Metals (QC L	ot: 1163647) - contin	ued									
WT2331456-002	Anonymous	Bismuth, total	7440-69-9	E420	0.000050	mg/L	<0.000050	<0.000050	0	Diff <2x LOR	
		Cadmium, total	7440-43-9	E420	0.0000050	mg/L	0.0000534	0.0000576	7.57%	20%	
		Chromium, total	7440-47-3	E420	0.00050	mg/L	0.00054	0.00056	0.00002	Diff <2x LOR	
		Cobalt, total	7440-48-4	E420	0.00010	mg/L	0.00176	0.00178	1.61%	20%	
		Copper, total	7440-50-8	E420	0.00050	mg/L	0.0392	0.0419	6.79%	20%	
		Iron, total	7439-89-6	E420	0.010	mg/L	2.69	2.68	0.213%	20%	
		Lead, total	7439-92-1	E420	0.000050	mg/L	0.00101	0.00102	0.770%	20%	
		Manganese, total	7439-96-5	E420	0.00010	mg/L	0.165	0.163	1.65%	20%	
		Molybdenum, total	7439-98-7	E420	0.000050	mg/L	0.00504	0.00506	0.380%	20%	
		Nickel, total	7440-02-0	E420	0.00050	mg/L	0.00109	0.00111	0.00002	Diff <2x LOR	
		Selenium, total	7782-49-2	E420	0.000050	mg/L	0.000080	0.000073	0.000006	Diff <2x LOR	
		Silver, total	7440-22-4	E420	0.000010	mg/L	0.000031	0.000033	0.000002	Diff <2x LOR	
		Tin, total	7440-31-5	E420	0.00010	mg/L	0.00012	0.00013	0.000006	Diff <2x LOR	
		Titanium, total	7440-32-6	E420	0.00030	mg/L	0.00420	0.00444	5.63%	20%	
		Vanadium, total	7440-62-2	E420	0.00050	mg/L	0.00053	0.00053	0.000004	Diff <2x LOR	
		Zinc, total	7440-66-6	E420	0.0030	mg/L	0.0172	0.0180	0.0009	Diff <2x LOR	
otal Metals (QC L	ot: 1164162)										
TY2309849-002	Anonymous	Mercury, total	7439-97-6	E508	0.0000050	mg/L	<0.0000050	<0.0000050	0	Diff <2x LOR	
Aggregate Organic	s (QC Lot: 1163210)										
NT2331537-001	MW23-04 GS	Carbonaceous biochemical oxygen demand [CBOD]		E555	3.0	mg/L	<3.0	<3.0	0.0%	30%	
Aggregate Organic	s (QC Lot: 1163732)										
NT2331413-002	Anonymous	Phenols, total (4AAP)		E562	0.0010	mg/L	<0.0010	<0.0010	0	Diff <2x LOR	

Page	:	5 of 10
Work Order	:	WT2331537
Client	:	Englobe Corp.
Project	:	2302109.002



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.

nalyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Physical Tests (QCLot: 1165994)						
Solids, total suspended [TSS]		E160	3	mg/L	<3.0	
Anions and Nutrients (QCLot: 1163730)						
Kjeldahl nitrogen, total [TKN]		E318	0.05	mg/L	<0.050	
Anions and Nutrients (QCLot: 1163731)						
Phosphorus, total	7723-14-0	E372-U	0.002	mg/L	<0.0020	
nions and Nutrients (QCLot: 1164101)						
Chloride	16887-00-6	E235.Cl	0.5	mg/L	<0.50	
Anions and Nutrients (QCLot: 1164103)						
Fluoride	16984-48-8	E235.F	0.02	mg/L	<0.020	
Anions and Nutrients (QCLot: 1164104)						
Sulfate (as SO4)	14808-79-8	E235.SO4	0.3	mg/L	<0.30	
Anions and Nutrients (QCLot: 1165085)						
Sulfate (as SO4)	14808-79-8	E235.SO4	0.3	mg/L	<0.30	
Anions and Nutrients (QCLot: 1165086)						
Chloride	16887-00-6	E235.Cl	0.5	mg/L	<0.50	
Anions and Nutrients (QCLot: 1165087)						
Fluoride	16984-48-8	E235.F	0.02	mg/L	<0.020	
Cyanides (QCLot: 1167375)						
Cyanide, strong acid dissociable (Total)		E333	0.002	mg/L	<0.0020	
licrobiological Tests (QCLot: 1162631)						
Coliforms, thermotolerant [fecal]		E012.FC	1	CFU/100mL	<1	
otal Metals (QCLot: 1163647)						
Aluminum, total	7429-90-5	E420	0.003	mg/L	<0.0030	
Antimony, total	7440-36-0	E420	0.0001	mg/L	<0.00010	
Arsenic, total	7440-38-2	E420	0.0001	mg/L	<0.00010	
Bismuth, total	7440-69-9	E420	0.00005	mg/L	<0.000050	
Cadmium, total	7440-43-9	E420	0.000005	mg/L	<0.000050	
Chromium, total	7440-47-3	E420	0.0005	mg/L	<0.00050	
Cobalt, total	7440-48-4	E420	0.0001	mg/L	<0.00010	
Copper, total	7440-50-8	E420	0.0005	mg/L	<0.00050	
Iron, total	7439-89-6	E420	0.01	mg/L	<0.010	
Lead, total	7439-92-1	E420	0.00005	mg/L	<0.000050	

Page	:	6 of 10
Work Order	:	WT2331537
Client	:	Englobe Corp.
Project	:	2302109.002



Sub-Matrix: Water

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Total Metals (QCLot: 1163647) - continued						
Manganese, total	7439-96-5	E420	0.0001	mg/L	<0.00010	
Molybdenum, total	7439-98-7	E420	0.00005	mg/L	<0.000050	
Nickel, total	7440-02-0	E420	0.0005	mg/L	<0.00050	
Selenium, total	7782-49-2	E420	0.00005	mg/L	<0.000050	
Silver, total	7440-22-4	E420	0.00001	mg/L	<0.000010	
Tin, total	7440-31-5	E420	0.0001	mg/L	<0.00010	
Titanium, total	7440-32-6	E420	0.0003	mg/L	<0.00030	
Vanadium, total	7440-62-2	E420	0.0005	mg/L	<0.00050	
Zinc, total	7440-66-6	E420	0.003	mg/L	<0.0030	
Total Metals (QCLot: 1164162)						
Mercury, total	7439-97-6	E508	0.000005	mg/L	<0.000050	
Aggregate Organics (QCLot: 1163210)						
Carbonaceous biochemical oxygen demand [CBOD]		E555	2	mg/L	<2.0	
Aggregate Organics (QCLot: 1163440)						
Oil & grease (gravimetric)		E567	5	mg/L	<5.0	
Aggregate Organics (QCLot: 1163441)						
Oil & grease, mineral (gravimetric)		E567SG	5	mg/L	<5.0	
Aggregate Organics (QCLot: 1163732)						
Phenols, total (4AAP)		E562	0.001	mg/L	<0.0010	

Page	:	7 of 10
Work Order	:	WT2331537
Client	:	Englobe Corp.
Project	:	2302109.002



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: 1164097)											
pH		E108		pH units	7 pH units	101	98.0	102			
Physical Tests (QCLot: 1165090)											
PH		E108		pH units	7 pH units	101	98.0	102			
Physical Tests (QCLot: 1165994)											
Solids, total suspended [TSS]		E160	3	mg/L	150 mg/L	101	85.0	115			
Anions and Nutrients (QCLot: 1163730)											
Kjeldahl nitrogen, total [TKN]		E318	0.05	mg/L	4 mg/L	102	75.0	125			
Anions and Nutrients (QCLot: 1163731)											
Phosphorus, total	7723-14-0	E372-U	0.002	mg/L	0.393 mg/L	101	80.0	120			
Anions and Nutrients (QCLot: 1164101)											
Chloride	16887-00-6	E235.CI	0.5	mg/L	100 mg/L	97.1	90.0	110			
Anions and Nutrients (QCLot: 1164103)											
Fluoride	16984-48-8	E235.F	0.02	mg/L	1 mg/L	98.9	90.0	110			
Anions and Nutrients (QCLot: 1164104)											
Sulfate (as SO4)	14808-79-8	E235.SO4	0.3	mg/L	100 mg/L	97.7	90.0	110			
Anions and Nutrients (QCLot: 1165085)											
Sulfate (as SO4)	14808-79-8	E235.SO4	0.3	mg/L	100 mg/L	101	90.0	110			
Anions and Nutrients (QCLot: 1165086)											
Chloride	16887-00-6	E235.CI	0.5	mg/L	100 mg/L	99.8	90.0	110			
Anions and Nutrients (QCLot: 1165087)											
Fluoride	16984-48-8	E235.F	0.02	mg/L	1 mg/L	103	90.0	110			
Cyanides (QCLot: 1167375)			0.000					4			
Cyanide, strong acid dissociable (Total)		E333	0.002	mg/L	0.25 mg/L	97.9	80.0	120			
Total Metals (QCLot: 1163647)	7429-90-5	E420	0.003	ma/l	0.4 mm/l	01.0	80.0	120			
Aluminum, total	7429-90-5 7440-36-0		0.003	mg/L	0.1 mg/L	94.9	80.0 80.0	120			
Antimony, total				mg/L	0.05 mg/L	99.3					
Arsenic, total	7440-38-2 7440-69-9		0.0001 0.00005	mg/L	0.05 mg/L	97.9	80.0 80.0	120 120			
Bismuth, total				mg/L	0.05 mg/L	97.2					
Cadmium, total	7440-43-9	E420	0.000005	mg/L	0.005 mg/L	94.3	80.0	120			

Page	:	8 of 10
Work Order	:	WT2331537
Client	:	Englobe Corp.
Project	:	2302109.002



Sub-Matrix: Water						Laboratory Control Sample (LCS) Report							
				Spike	Recovery (%)	Recovery	/ Limits (%)						
Analyte	CAS Number	Method	LOR	Unit	Concentration	LCS	Low	High	Qualifie				
otal Metals (QCLot: 1163647) - continued													
Chromium, total	7440-47-3	E420	0.0005	mg/L	0.0125 mg/L	96.3	80.0	120					
Cobalt, total	7440-48-4	E420	0.0001	mg/L	0.0125 mg/L	94.3	80.0	120					
Copper, total	7440-50-8	E420	0.0005	mg/L	0.0125 mg/L	94.0	80.0	120					
Iron, total	7439-89-6	E420	0.01	mg/L	0.05 mg/L	96.1	80.0	120					
Lead, total	7439-92-1	E420	0.00005	mg/L	0.025 mg/L	98.4	80.0	120					
Manganese, total	7439-96-5	E420	0.0001	mg/L	0.0125 mg/L	94.3	80.0	120					
Molybdenum, total	7439-98-7	E420	0.00005	mg/L	0.0125 mg/L	96.7	80.0	120					
Nickel, total	7440-02-0	E420	0.0005	mg/L	0.025 mg/L	93.7	80.0	120					
Selenium, total	7782-49-2	E420	0.00005	mg/L	0.05 mg/L	94.5	80.0	120					
Silver, total	7440-22-4	E420	0.00001	mg/L	0.005 mg/L	92.5	80.0	120					
Tin, total	7440-31-5	E420	0.0001	mg/L	0.025 mg/L	95.0	80.0	120					
Titanium, total	7440-32-6	E420	0.0003	mg/L	0.0125 mg/L	92.2	80.0	120					
Vanadium, total	7440-62-2	E420	0.0005	mg/L	0.025 mg/L	96.8	80.0	120					
Zinc, total	7440-66-6	E420	0.003	mg/L	0.025 mg/L	93.9	80.0	120					
Total Metals (QCLot: 1164162)													
Mercury, total	7439-97-6	E508	0.000005	mg/L	0.0001 mg/L	100	80.0	120					
Aggregate Organics (QCLot: 1163210)													
Carbonaceous biochemical oxygen demand [CBOD]		E555	2	mg/L	198 mg/L	92.6	85.0	115					
Aggregate Organics (QCLot: 1163440)									1				
Oil & grease (gravimetric)		E567	5	mg/L	200 mg/L	88.0	70.0	130					
Aggregate Organics (QCLot: 1163441)								1	1				
Oil & grease, mineral (gravimetric)		E567SG	5	mg/L	100 mg/L	84.4	70.0	130					
Aggregate Organics (QCLot: 1163732)								1	1				
Phenols, total (4AAP)		E562	0.001	mg/L	0.02 mg/L	99.1	85.0	115					
				-	U								

Page :	9 of 10
Work Order :	WT2331537
Client :	Englobe Corp.
Project :	2302109.002



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						
					Spi	ike	Recovery (%)		y Limits (%)		
Laboratory sample	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier	
	ients (QCLot: 116373	30)									
WT2331306-001	Anonymous	Kjeldahl nitrogen, total [TKN]		E318	ND mg/L	2.5 mg/L	ND	70.0	130		
Anions and Nutri	ients (QCLot: 116373	31)									
WT2331369-001	Anonymous	Phosphorus, total	7723-14-0	E372-U	ND mg/L	0.1 mg/L	ND	70.0	130		
Anions and Nutri	ients (QCLot: 116410	91)									
WT2331505-001	Anonymous	Chloride	16887-00-6	E235.Cl	96.7 mg/L	100 mg/L	96.7	75.0	125		
Anions and Nutri	ients (QCLot: 116410	3)					1 1				
WT2331505-001	Anonymous	Fluoride	16984-48-8	E235.F	0.914 mg/L	1 mg/L	91.4	75.0	125		
Anions and Nutri	ients (QCLot: 116410	94)					1 1				
WT2331505-001	Anonymous	Sulfate (as SO4)	14808-79-8	E235.SO4	94.5 mg/L	100 mg/L	94.5	75.0	125		
Anions and Nutri	ients (QCLot: 116508	55)					1 1				
WT2331306-001	Anonymous	Sulfate (as SO4)	14808-79-8	E235.SO4	99.1 mg/L	100 mg/L	99.1	75.0	125		
Anions and Nutri	ients (QCLot: 116508	6)					1 1				
WT2331306-001	Anonymous	Chloride	16887-00-6	E235.CI	100 mg/L	100 mg/L	100	75.0	125		
Anions and Nutri	ients (QCLot: 116508	37)					1 1				
WT2331306-001	Anonymous	Fluoride	16984-48-8	E235.F	ND mg/L	1 mg/L	ND	75.0	125		
Cyanides (QCLo	ot: 1167375)					· ····g/=	1				
TY2309674-001	Anonymous	Cyanide, strong acid dissociable (Total)		E333	0.252 mg/L	0.25 mg/L	101	75.0	125		
Total Metals (QC	Lot: 1163647)								-		
WT2331456-003	Anonymous	Aluminum, total	7429-90-5	E420	0.0874 mg/L	0.1 mg/L	87.4	70.0	130		
		Antimony, total	7440-36-0	E420	0.0468 mg/L	0.05 mg/L	93.5	70.0	130		
		Arsenic, total	7440-38-2	E420	0.0467 mg/L	0.05 mg/L	93.3	70.0	130		
		Bismuth, total	7440-69-9	E420	0.0446 mg/L	0.05 mg/L	89.1	70.0	130		
		Cadmium, total	7440-43-9	E420	0.00453 mg/L	0.005 mg/L	90.7	70.0	130		
		Chromium, total	7440-47-3	E420	0.0111 mg/L	0.0125 mg/L	88.7	70.0	130		
		Cobalt, total	7440-48-4	E420	0.0111 mg/L	0.0125 mg/L	89.1	70.0	130		
		Copper, total	7440-50-8	E420	0.0111 mg/L	0.0125 mg/L	88.8	70.0	130		
		Iron, total	7439-89-6	E420	ND mg/L	0.05 mg/L	ND	70.0	130		
		Lead, total	7439-92-1	E420	0.0225 mg/L	0.025 mg/L	90.0	70.0	130		
	I	Manganese, total	7439-96-5	E420	0.0113 mg/L	0.0125 mg/L	90.4	70.0	130		

Page :	10 of 10
Work Order :	WT2331537
Client :	Englobe Corp.
Project :	2302109.002



Sub-Matrix: Water						Matrix Spike (MS) Report				
					Spi	ike	Recovery (%)	Recovery	Limits (%)	
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Total Metals (QC	Lot: 1163647) - contin	nued								
WT2331456-003	Anonymous	Molybdenum, total	7439-98-7	E420	0.0112 mg/L	0.0125 mg/L	89.6	70.0	130	
		Nickel, total	7440-02-0	E420	0.0221 mg/L	0.025 mg/L	88.4	70.0	130	
		Selenium, total	7782-49-2	E420	0.0460 mg/L	0.05 mg/L	92.0	70.0	130	
		Silver, total	7440-22-4	E420	0.00424 mg/L	0.005 mg/L	84.9	70.0	130	
		Tin, total	7440-31-5	E420	0.0229 mg/L	0.025 mg/L	91.7	70.0	130	
		Titanium, total	7440-32-6	E420	0.0114 mg/L	0.0125 mg/L	91.0	70.0	130	
		Vanadium, total	7440-62-2	E420	0.0228 mg/L	0.025 mg/L	91.4	70.0	130	
		Zinc, total	7440-66-6	E420	0.0220 mg/L	0.025 mg/L	87.8	70.0	130	
Total Metals (QC	Lot: 1164162)									
TY2309849-003	Anonymous	Mercury, total	7439-97-6	E508	0.000100 mg/L	0.0001 mg/L	100	70.0	130	
Aggregate Organ	nics (QCLot: 1163732)									
WT2331413-002	Anonymous	Phenols, total (4AAP)		E562	0.0196 mg/L	0.02 mg/L	98.1	75.0	125	

Chain of Custody (COC) / Analytical Request Form

COC Number: 20 - 1083265

Control Saled Report Timet: Brind Der Distribution: Der	Turnaround Time (TAT) Requested	Environmental Division
Level Note Note Note Note Note Construct Regine Guodi Results to Citerio shift be crited Not. Not. Not. Not. Construct Regine Guodi Results to Citerio shift be crited Select Distribution. Email 2 and case Results to Citerio shift be crited Construct Regine Guodi Results to Citerio shift be crited Select Distribution. Monte Part Not. Not. Report Ref No No Select Distribution. Monte Part No No Report Ref No Select Distribution. Monte Part No. No. No Report Ref No Select Distribution. Monte Part No. No. No Reputification No No Select Distribution. Monte Part No. No No No No Select Distribution. Monte Case. Resulting Case. No No No No Select Distribution. Monte Case. Resulting Case. No No No No Select Distribution. Resulting Case. Resulting Case. Resulting Case. Resulting Case. No No Select Distritititititititititititititititititit		Waterloo
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ALS Canada Ltd.



CERTIFICATE OF ANALYSIS (GUIDELINE EVALUATION)

Work Order	: WT2331569	Page	: 1 of 10
Client	: Englobe Corp.	Laboratory	: ALS Environmental - Waterloo
Contact	: Jessica Godin	Account Manager	: Gayle Braun
Address	353 Bridge Street East Kitchener ON Canada N2K 2Y5	Address	: 60 Northland Road, Unit 1 Waterloo, Ontario Canada N2V 2B8
Telephone	:	Telephone	: +1 519 886 6910
Project	: 02302109.001	Date Samples Received	: 02-Oct-2023 08:30
PO	:	Date Analysis Commenced	: 02-Oct-2023
C-O-C number	: 20-1083259	Issue Date	: 10-Oct-2023 14:19
Sampler	: AG		
Site	:		
Quote number	: KITCHENER/LONDON GW SOA		
No. of samples received	: 4		
No. of samples analysed	: 4		

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
- Guideline Comparison

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 US FDA 21 CFR Part 11.

Signatories	Position	Laboratory Department
Greg Pokocky	Manager - Inorganics	Inorganics, Waterloo, Ontario
Greg Pokocky	Manager - Inorganics	Metals, Waterloo, Ontario
Jeremy Gingras	Supervisor - Semi-Volatile Instrumentation	Organics, Waterloo, Ontario
Jon Fisher	Production Manager, Environmental	Inorganics, Waterloo, Ontario
Sarah Birch	VOC Section Supervisor	VOC, Waterloo, Ontario



No Breaches Found

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.

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to fitness for a particular purpose, or non-infringement. ALS assumes no responsibility for errors or omissions in the information. Guidelines are not adjusted for the hardness, pH or temperature of the sample (the most conservative values are used). Measurement uncertainty is not applied to test results prior to comparison with specified criteria values.

Key : LOR: Limit of Reporting (detection limit).

Unit	Description
-	no units
µg/L	micrograms per litre
mg/L	milligrams per litre
mS/cm	millisiemens per centimetre
pH units	pH units

>: greater than.

<: less than.

Red shading is applied where the result or the LOR is greater than the Guideline Upper Limit (or lower than the Guideline Lower Limit, if applicable). For drinking water samples, Red shading is applied where the result for E.coli, fecal or total coliforms is greater than or equal to the Guideline Upper Limit.

Page	:	3 of 10
Work Order	:	WT2331569
Client	:	Englobe Corp.
Project	:	02302109.001



Qualifiers

Qualifier	Description
DLDS	Detection Limit Raised: Dilution required due to high Dissolved Solids / Electrical Conductivity.

Page	:	4 of 10
Work Order	:	WT2331569
Client	:	Englobe Corp.
Project	:	02302109.001



		Client	sample ID	MW23-01	MW23-03	DUP23-01	TRIP BLANK	 	
Matrix: Water									
	Sampling date/time			29-Sep-2023 18:15	29-Sep-2023 17:00	29-Sep-2023 00:00	29-Sep-2023 00:00	 	
			Sub-Matrix	Water	Water	Water	Water	 	
Analyte	CAS Number	Method/Lab	Unit	WT2331569-001	WT2331569-002	WT2331569-003	WT2331569-004	 	
Physical Tests									
Conductivity		E100/WT	mS/cm	2.18	2.07	2.23		 	
рН		E108/WT	pH units	7.55	7.52	7.65		 	
Anions and Nutrients									
Chloride	16887-00-6	E235.CI/WT	mg/L	199 DLDS	366 DLDS	429 DLDS		 	
Cyanides									
Cyanide, weak acid dissociable		E336/WT	µg/L	<2.0	<2.0	<2.0		 	
Dissolved Metals									
Antimony, dissolved	7440-36-0	E421/WT	µg/L	0.22	0.26	0.25		 	
Arsenic, dissolved	7440-38-2	E421/WT	µg/L	0.33	0.53	0.54		 	
Barium, dissolved	7440-39-3	E421/WT	µg/L	78.3	120	115		 	
Beryllium, dissolved	7440-41-7	E421/WT	µg/L	<0.020	<0.020	<0.020		 	
Boron, dissolved	7440-42-8	E421/WT	µg/L	16	38	38		 	
Cadmium, dissolved	7440-43-9	E421/WT	µg/L	0.0189	0.0318	0.0313		 	
Chromium, dissolved	7440-47-3	E421/WT	µg/L	<0.50	<0.50	<0.50		 	
Cobalt, dissolved	7440-48-4	E421/WT	µg/L	0.32	0.52	0.51		 	
Copper, dissolved	7440-50-8	E421/WT	µg/L	4.37	1.46	1.52		 	
Lead, dissolved	7439-92-1	E421/WT	µg/L	0.280	0.066	0.071		 	
Mercury, dissolved	7439-97-6	E509/WT	µg/L	<0.0050	<0.0050	<0.0050		 	
Molybdenum, dissolved	7439-98-7	E421/WT	µg/L	0.590	3.51	3.36		 	
Nickel, dissolved	7440-02-0	E421/WT	µg/L	4.08	2.10	2.13		 	
Selenium, dissolved	7782-49-2	E421/WT	µg/L	0.326	1.25	1.24		 	
Silver, dissolved	7440-22-4	E421/WT	µg/L	<0.010	<0.010	<0.010		 	
Sodium, dissolved	7440-23-5	E421/WT	µg/L	134000	164000	159000		 	
Thallium, dissolved	7440-28-0	E421/WT	µg/L	0.017	0.020	0.018		 	
Uranium, dissolved	7440-61-1	E421/WT	µg/L	1.03	0.766	0.733		 	
Vanadium, dissolved	7440-62-2	E421/WT	µg/L	<0.50	0.58	0.59		 	
Zinc, dissolved	7440-66-6	E421/WT	µg/L	6.1	5.7	5.2		 	

Page	:	5 of 10
Work Order	:	WT2331569
Client	:	Englobe Corp.
Project	:	02302109.001



		Client	sample ID	MW23-01	MW23-03	DUP23-01	TRIP BLANK	 	
Matrix: Water									
		Sampling	date/time	29-Sep-2023 18:15	29-Sep-2023 17:00	29-Sep-2023 00:00	29-Sep-2023 00:00	 	
		5	Sub-Matrix	Water	Water	Water	Water	 	
Analyte	CAS Number	Method/Lab	Unit	WT2331569-001	WT2331569-002	WT2331569-003	WT2331569-004	 	
Dissolved Metals									
Dissolved mercury filtration location		EP509/WT	-	Field	Field	Field		 	
Dissolved metals filtration location		EP421/WT	-	Field	Field	Field		 	
Speciated Metals									
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	E532A/WT	µg/L	<0.50	<0.50	<0.50		 	
Volatile Organic Compounds									
Acetone	67-64-1	E611D/WT	µg/L	<20	<20	<20	<20	 	
Benzene	71-43-2	E611D/WT	µg/L	<0.50	<0.50	<0.50	<0.50	 	
Bromodichloromethane	75-27-4	E611D/WT	µg/L	<0.50	<0.50	<0.50	<0.50	 	
Bromoform	75-25-2	E611D/WT	µg/L	<0.50	<0.50	<0.50	<0.50	 	
Bromomethane	74-83-9	E611D/WT	µg/L	<0.50	<0.50	<0.50	<0.50	 	
Carbon tetrachloride	56-23-5	E611D/WT	µg/L	<0.20	<0.20	<0.20	<0.20	 	
Chlorobenzene	108-90-7	E611D/WT	µg/L	<0.50	<0.50	<0.50	<0.50	 	
Chloroform	67-66-3	E611D/WT	µg/L	<0.50	<0.50	<0.50	<0.50	 	
Dibromochloromethane	124-48-1	E611D/WT	µg/L	<0.50	<0.50	<0.50	<0.50	 	
Dibromoethane, 1,2-	106-93-4	E611D/WT	µg/L	<0.20	<0.20	<0.20	<0.20	 	
Dichlorobenzene, 1,2-	95-50-1	E611D/WT	µg/L	<0.50	<0.50	<0.50	<0.50	 	
Dichlorobenzene, 1,3-	541-73-1	E611D/WT	µg/L	<0.50	<0.50	<0.50	<0.50	 	
Dichlorobenzene, 1,4-	106-46-7	E611D/WT	µg/L	<0.50	<0.50	<0.50	<0.50	 	
Dichlorodifluoromethane	75-71-8	E611D/WT	µg/L	<0.50	<0.50	<0.50	<0.50	 	
Dichloroethane, 1,1-	75-34-3	E611D/WT	µg/L	<0.50	<0.50	<0.50	<0.50	 	
Dichloroethane, 1,2-	107-06-2	E611D/WT	µg/L	<0.50	<0.50	<0.50	<0.50	 	
Dichloroethylene, 1,1-	75-35-4	E611D/WT	µg/L	<0.50	<0.50	<0.50	<0.50	 	
Dichloroethylene, cis-1,2-	156-59-2	E611D/WT	µg/L	<0.50	<0.50	<0.50	<0.50	 	
Dichloroethylene, trans-1,2-	156-60-5		µg/L	<0.50	<0.50	<0.50	<0.50	 	
Dichloromethane		E611D/WT	µg/L	<1.0	<1.0	<1.0	<1.0	 	
Dichloropropane, 1,2-	78-87-5	E611D/WT	µg/L	<0.50	<0.50	<0.50	<0.50	 	
Dichloropropylene, cis+trans-1,3-	542-75-6		µg/L	<0.50	<0.50	<0.50	<0.50	 	
Dichloropropylene, cis-1,3-	10061-01-5	E611D/WT	µg/L	<0.30	<0.30	<0.30	<0.30	 	

Page	:	6 of 10
Work Order	:	WT2331569
Client	:	Englobe Corp.
Project	:	02302109.001



		Client	sample ID	MW23-01	MW23-03	DUP23-01	TRIP BLANK	 	
Matrix: Water		Sampling	ı date∕time	29-Sep-2023 18:15	29-Sep-2023 17:00	29-Sep-2023 00:00	29-Sep-2023 00:00	 	
		5	Sub-Matrix	Water	Water	Water	Water	 	
Analyte	CAS Number	Method/Lab	Unit	WT2331569-001	WT2331569-002	WT2331569-003	WT2331569-004	 	
Volatile Organic Compounds									
Dichloropropylene, trans-1,3-	10061-02-6	E611D/WT	µg/L	<0.30	<0.30	<0.30	<0.30	 	
Ethylbenzene	100-41-4	E611D/WT	µg/L	<0.50	<0.50	<0.50	<0.50	 	
Hexane, n-	110-54-3	E611D/WT	µg/L	<0.50	<0.50	<0.50	<0.50	 	
Methyl ethyl ketone [MEK]	78-93-3	E611D/WT	µg/L	<20	<20	<20	<20	 	
Methyl isobutyl ketone [MIBK]	108-10-1	E611D/WT	µg/L	<20	<20	<20	<20	 	
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D/WT	µg/L	<0.50	<0.50	<0.50	<0.50	 	
Styrene	100-42-5	E611D/WT	µg/L	<0.50	<0.50	<0.50	<0.50	 	
Tetrachloroethane, 1,1,1,2-	630-20-6	E611D/WT	µg/L	<0.50	<0.50	<0.50	<0.50	 	
Tetrachloroethane, 1,1,2,2-	79-34-5	E611D/WT	µg/L	<0.50	<0.50	<0.50	<0.50	 	
Tetrachloroethylene	127-18-4	E611D/WT	µg/L	<0.50	<0.50	<0.50	<0.50	 	
Toluene	108-88-3	E611D/WT	µg/L	<0.50	<0.50	<0.50	<0.50	 	
Trichloroethane, 1,1,1-	71-55-6	E611D/WT	µg/L	<0.50	<0.50	<0.50	<0.50	 	
Trichloroethane, 1,1,2-	79-00-5	E611D/WT	µg/L	<0.50	<0.50	<0.50	<0.50	 	
Trichloroethylene	79-01-6	E611D/WT	µg/L	<0.50	<0.50	<0.50	<0.50	 	
Trichlorofluoromethane	75-69-4	E611D/WT	µg/L	<0.50	<0.50	<0.50	<0.50	 	
Vinyl chloride	75-01-4	E611D/WT	µg/L	<0.50	<0.50	<0.50	<0.50	 	
Xylene, m+p-	179601-23-1	E611D/WT	µg/L	<0.40	<0.40	<0.40	<0.40	 	
Xylene, o-	95-47-6	E611D/WT	µg/L	<0.30	<0.30	<0.30	<0.30	 	
Xylenes, total	1330-20-7	E611D/WT	µg/L	<0.50	<0.50	<0.50	<0.50	 	
BTEX, total		E611D/WT	µg/L	<1.0	<1.0	<1.0	<1.0	 	
Hydrocarbons									
F1 (C6-C10)		E581.F1-L/WT	µg/L	<25	<25	<25	<25	 	
F2 (C10-C16)		E601.SG/WT	µg/L	<100	<100	<100		 	
F3 (C16-C34)		E601.SG/WT	µg/L	<250	<250	<250		 	
F4 (C34-C50)		E601.SG/WT	µg/L	<250	<250	<250		 	
F1-BTEX		EC580/WT	µg/L	<25	<25	<25	<25	 	
Hydrocarbons, total (C6-C50)		EC581SG/WT	µg/L	<370	<370	<370		 	
Chromatogram to baseline at nC50	n/a	E601.SG/WT	-	YES	YES	YES		 	

Page	:	7 of 10
Work Order	:	WT2331569
Client	:	Englobe Corp.
Project	:	02302109.001



Matrix: Water		Client	sample ID	MW23-01	MW23-03	DUP23-01	TRIP BLANK	 	
		Sampling	date/time	29-Sep-2023 18:15	29-Sep-2023 17:00	29-Sep-2023 00:00	29-Sep-2023 00:00	 	
		s	Sub-Matrix	Water	Water	Water	Water	 	
Analyte	CAS Number	Method/Lab	Unit	WT2331569-001	WT2331569-002	WT2331569-003	WT2331569-004	 	
Hydrocarbons Surrogates									
Bromobenzotrifluoride, 2- (F2-F4 surrogat	e) 392-83-6	E601.SG/WT	%	75.7	76.8	74.5		 	
Dichlorotoluene, 3,4-	95-75-0	E581.F1-L/WT	%	84.8	86.9	87.7	105	 	
Volatile Organic Compounds Surrogates									
Bromofluorobenzene, 4-	460-00-4	E611D/WT	%	93.2	93.0	93.2	91.7	 	
Difluorobenzene, 1,4-	540-36-3	E611D/WT	%	94.1	94.4	94.5	100	 	

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Page	:	8 of 10
Work Order	:	WT2331569
Client	:	Englobe Corp.
Project	:	02302109.001



Summary of Guideline Limits

Analyte	CAS Number	Unit	ON153/04 T2-GW-C-All	ON153/04 T2-GW-F-All		
Physical Tests						
Conductivity		mS/cm				
pH		pH units				
Anions and Nutrients						
Chloride	16887-00-6	mg/L	790 mg/L	790 mg/L		
Cyanides						
Cyanide, weak acid dissociable		µg/L	66 µg/L	66 µg/L		
Dissolved Metals						
Antimony, dissolved	7440-36-0	µg/L	6 µg/L	6 µg/L		
Arsenic, dissolved	7440-38-2	µg/L	25 µg/L	25 µg/L		
Barium, dissolved	7440-39-3	µg/L	1000 µg/L	1000 µg/L		
Beryllium, dissolved	7440-41-7	µg/L	4 µg/L	4 µg/L		
Boron, dissolved	7440-42-8	µg/L	5000 μg/L	5000 µg/L		
Cadmium, dissolved	7440-43-9	µg/L	2.7 μg/L	2.7 μg/L		
Chromium, dissolved	7440-47-3	µg/L	50 µg/L	50 µg/L		
Cobalt, dissolved	7440-48-4	µg/L	3.8 µg/L	3.8 µg/L		
Copper, dissolved	7440-50-8	µg/L	87 µg/L	87 μg/L		
Dissolved mercury filtration location		-				
Dissolved metals filtration location		-				
Lead, dissolved	7439-92-1	µg/L	10 µg/L	10 µg/L		
Mercury, dissolved	7439-97-6	µg/L	0.29 µg/L	1 µg/L		
Molybdenum, dissolved	7439-98-7	µg/L	70 µg/L	70 µg/L		
Nickel, dissolved	7440-02-0	µg/L	100 µg/L	100 µg/L		
Selenium, dissolved	7782-49-2	µg/L	10 µg/L	10 µg/L		
Silver, dissolved	7440-22-4	µg/L	1.5 µg/L	1.5 µg/L		
Sodium, dissolved	7440-23-5	µg/L	490000 µg/L	490000 µg/L		
Thallium, dissolved	7440-28-0	µg/L	2 µg/L	2 µg/L		
Uranium, dissolved	7440-61-1	µg/L	20 µg/L	20 µg/L		
Vanadium, dissolved	7440-62-2	µg/L	6.2 µg/L	6.2 µg/L		
Zinc, dissolved	7440-66-6	µg/L	1100 μg/L	1100 µg/L		
Speciated Metals						
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	µg/L	25 µg/L	25 µg/L		
/olatile Organic Compounds						
Acetone	67-64-1	µg/L	2700 μg/L	2700 µg/L		
Benzene	71-43-2	µg/L	5 µg/L	5 µg/L		
Bromodichloromethane	75-27-4	µg/L	16 µg/L	16 µg/L		
Bromoform	75-25-2	µg/L	25 µg/L	25 µg/L		
Bromomethane	74-83-9	µg/L	0.89 µg/L	0.89 µg/L		

nalyte	CAS Number	Unit	ON153/04 T2-GW-C-All	ON153/04 T2-GW-F-All		
olatile Organic Compounds - Continued						
BTEX, total		µg/L				
Carbon tetrachloride	56-23-5	µg/L	0.79 μg/L	5 µg/L		
Chlorobenzene	108-90-7	µg/L	30 µg/L	30 µg/L		
Chloroform	67-66-3	µg/L	2.4 µg/L	22 µg/L		
Dibromochloromethane	124-48-1	µg/L	25 µg/L	25 µg/L		
Dibromoethane, 1,2-	106-93-4	µg/L	0.2 μg/L	0.2 μg/L		
Dichlorobenzene, 1,2-	95-50-1	µg/L	3 µg/L	3 µg/L		
Dichlorobenzene, 1,3-	541-73-1	µg/L	59 µg/L	59 µg/L		
Dichlorobenzene, 1,4-	106-46-7	µg/L	1 µg/L	1 µg/L		
Dichlorodifluoromethane	75-71-8	µg/L	590 μg/L	590 μg/L		
Dichloroethane, 1,1-	75-34-3	µg/L	5 µg/L	5 µg/L		
Dichloroethane, 1,2-	107-06-2	µg/L	1.6 µg/L	5 µg/L		
Dichloroethylene, 1,1-	75-35-4	µg/L	1.6 µg/L	14 µg/L		
Dichloroethylene, cis-1,2-	156-59-2	µg/L	1.6 µg/L	17 µg/L		
Dichloroethylene, trans-1,2-	156-60-5	µg/L	1.6 µg/L	17 µg/L		
Dichloromethane	75-09-2	µg/L	50 µg/L	50 µg/L		
Dichloropropane, 1,2-	78-87-5	µg/L	5 µg/L	5 µg/L		
Dichloropropylene, cis+trans-1,3-	542-75-6	µg/L	0.5 µg/L	0.5 µg/L		
Dichloropropylene, cis-1,3-	10061-01-5	µg/L				
Dichloropropylene, trans-1,3-	10061-02-6	µg/L				
Ethylbenzene	100-41-4	µg/L	2.4 µg/L	2.4 µg/L		
Hexane, n-	110-54-3	µg/L	51 µg/L	520 μg/L		
Methyl ethyl ketone [MEK]	78-93-3	µg/L	1800 µg/L	1800 µg/L		
Methyl isobutyl ketone [MIBK]	108-10-1	µg/L	640 µg/L	640 μg/L		
Methyl-tert-butyl ether [MTBE]	1634-04-4	µg/L	15 µg/L	15 µg/L		
Styrene	100-42-5	µg/L	5.4 µg/L	5.4 µg/L		
Tetrachloroethane, 1,1,1,2-	630-20-6	µg/L	1.1 μg/L	1.1 µg/L		
Tetrachloroethane, 1,1,2,2-	79-34-5	µg/L	1 µg/L	1 µg/L		
Tetrachloroethylene	127-18-4	µg/L	1.6 µg/L	17 μg/L		
Toluene	108-88-3	µg/L	24 µg/L	24 µg/L		
Trichloroethane, 1,1,1-	71-55-6	µg/L	200 µg/L	200 µg/L		
Trichloroethane, 1,1,2-	79-00-5	µg/L	4.7 μg/L	5 µg/L		
Trichloroethylene	79-01-6	µg/L	1.6 µg/L	5 µg/L		
Trichlorofluoromethane	75-69-4	µg/L	150 μg/L	150 μg/L		
Vinyl chloride	75-01-4	µg/L	0.5 µg/L	1.7 μg/L		
Xylene, m+p-	179601-23-1	µg/L				
Xylene, o-	95-47-6	µg/L				
Xylenes, total	1330-20-7	µg/L	300 µg/L	300 µg/L		



Page	:	10 of 10
Work Order	:	WT2331569
Client	:	Englobe Corp.
Project	:	02302109.001



Analyte	CAS Number	Unit	ON153/04 T2-GW-C-All	ON153/04 T2-GW-F-All			
Hydrocarbons - Continued							
Chromatogram to baseline at nC50	n/a	-					
F1 (C6-C10)		µg/L	750 µg/L	750 µg/L			
F1-BTEX		μg/L	750 µg/L	750 µg/L			
F2 (C10-C16)		μg/L	150 µg/L	150 µg/L			
F3 (C16-C34)		µg/L	500 µg/L	500 µg/L			
F4 (C34-C50)		µg/L	500 µg/L	500 µg/L			
Hydrocarbons, total (C6-C50)		µg/L					
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	%					
Dichlorotoluene, 3,4-	95-75-0	%					
Bromofluorobenzene, 4-	460-00-4	%					
Difluorobenzene, 1,4-	540-36-3	%					

Please refer to the General Comments section for an explanation of any qualifiers detected.

Key:

ON153/04

ļ	Ontario Regulation 153/04 - April 15, 2011 Standards (JUL, 2011)
T2-GW-C-All	153 T2-Ground Water (Coarse Soil)-All Types of Property Use
T2-GW-F-All	153 T2-Ground Water (Fine Soil)-All Types of Property Use



QUALITY CONTROL INTERPRETIVE REPORT

Work Order	WT2331569	Page	: 1 of 10
Client	Englobe Corp.	Laboratory	: ALS Environmental - Waterloo
Contact	Jessica Godin	Account Manager	: Gayle Braun
Address	: 353 Bridge Street East	Address	: 60 Northland Road, Unit 1
	Kitchener ON Canada N2K 2Y5		Waterloo, Ontario Canada N2V 2B8
Telephone	:	Telephone	: +1 519 886 6910
Project	: 02302109.001	Date Samples Received	: 02-Oct-2023 08:30
PO	:	Issue Date	: 10-Oct-2023 14:19
C-O-C number	: 20-1083259		
Sampler	: AG		
Site			
Quote number	: KITCHENER/LONDON GW SOA		
No. of samples received	:4		
No. of samples analysed	:4		

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

- <u>No</u> 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) <u>No</u> Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples • No Quality Control Sample Frequency Outliers occur.

Page	:	3 of 10
Work Order	:	WT2331569
Client	:	Englobe Corp.
Project	:	02302109.001



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.

Aatrix: Water					E١	/aluation: × =	Holding time exce	edance ; 🔹	= Within	Holding Tim
Analyte Group	Method	Sampling Date	Ext	traction / P	reparation		Analysis			
Container / Client Sample ID(s)			Preparation	Holdin	g Times	Eval	Analysis Date	Holding	g Times	Eval
			Date	Rec	Actual			Rec	Actual	
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
MW23-01	E235.Cl	29-Sep-2023	03-Oct-2023	28	4 days	1	03-Oct-2023	28 days	4 days	✓
				days						
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
MW23-03	E235.Cl	29-Sep-2023	03-Oct-2023	28	4 days	1	03-Oct-2023	28 days	4 days	✓
				days						
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP]										
DUP23-01	E235.Cl	29-Sep-2023	03-Oct-2023	28	4 days	1	03-Oct-2023	28 days	5 days	✓
				days						
Cyanides : WAD Cyanide										
HDPE - total (sodium hydroxide)										
MW23-01	E336	29-Sep-2023	04-Oct-2023	14	5 days	1	04-Oct-2023	14 days	5 days	✓
				days						
Cyanides : WAD Cyanide										
HDPE - total (sodium hydroxide)										
MW23-03	E336	29-Sep-2023	04-Oct-2023	14	5 days	1	04-Oct-2023	14 days	5 days	✓
				days						
Cyanides : WAD Cyanide										
HDPE - total (sodium hydroxide)										
DUP23-01	E336	29-Sep-2023	04-Oct-2023	14	6 days	1	04-Oct-2023	14 days	6 days	✓
				days						
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid)										
MW23-01	E509	29-Sep-2023	02-Oct-2023	28	3 days	1	02-Oct-2023	28 days	3 days	✓
				days						

Page :	4 of 10
Work Order :	WT2331569
Client :	Englobe Corp.
Project :	02302109.001



Analyte Group	Method Sampling Date Extraction / Preparation						= Holding time exceedance ; ✓ = Within Holding T Analysis				
Container / Client Sample ID(s)	Method	Sampling Date	Preparation		g Times Actual	Eval	Analysis Date		g Times Actual	Eval	
			Date	Rec	Actual			Rec	Actual		
Dissolved Metals : Dissolved Mercury in Water by CVAAS							1				
Glass vial dissolved (hydrochloric acid) MW23-03	E509	29-Sep-2023	02-Oct-2023	28 days	3 days	1	02-Oct-2023	28 days	3 days	~	
bissolved Metals : Dissolved Mercury in Water by CVAAS											
Glass vial dissolved (hydrochloric acid)											
DUP23-01	E509	29-Sep-2023	02-Oct-2023	28 days	4 days	1	02-Oct-2023	28 days	4 days	1	
issolved Metals : Dissolved Metals in Water by CRC ICPMS											
HDPE dissolved (nitric acid) MW23-01	E421	29-Sep-2023	02-Oct-2023	180 days	3 days	~	02-Oct-2023	180 days	3 days	1	
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS											
HDPE dissolved (nitric acid) MW23-03	E421	29-Sep-2023	02-Oct-2023	180 days	3 days	√	02-Oct-2023	180 days	3 days	✓	
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS											
HDPE dissolved (nitric acid) DUP23-01	E421	29-Sep-2023	02-Oct-2023	180 days	4 days	1	02-Oct-2023	180 days	4 days	1	
lydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)									II		
Glass vial (sodium bisulfate) DUP23-01	E581.F1-L	29-Sep-2023	03-Oct-2023	14 days	4 days	4	03-Oct-2023	14 days	4 days	~	
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)											
Glass vial (sodium bisulfate) MW23-01	E581.F1-L	29-Sep-2023	03-Oct-2023	14 days	4 days	V	03-Oct-2023	14 days	4 days	~	
lydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)									· · · · · ·		
Glass vial (sodium bisulfate) MW23-03	E581.F1-L	29-Sep-2023	03-Oct-2023	14 days	4 days	1	03-Oct-2023	14 days	4 days	4	
lydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)											
Glass vial (sodium bisulfate) TRIP BLANK	E581.F1-L	29-Sep-2023	04-Oct-2023	14 days	5 days	1	04-Oct-2023	14 days	5 days	1	

Page :	5 of 10
Work Order :	WT2331569
Client :	Englobe Corp.
Project :	02302109.001



Matrix: Water					E	valuation: × =	Holding time exce	edance ; •	= Within	Holding Tim
Analyte Group	Method	Sampling Date	Extraction / Preparation					Analysis		
Container / Client Sample ID(s)			Preparation Date	Holding Rec	g Times Actual	Eval	Analysis Date	Holding Rec	g Times Actual	Eval
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate) MW23-01	E601.SG	29-Sep-2023	02-Oct-2023	14 days	3 days	4	06-Oct-2023	40 days	4 days	1
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate) MW23-03	E601.SG	29-Sep-2023	02-Oct-2023	14 days	3 days	4	06-Oct-2023	40 days	4 days	1
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate) DUP23-01	E601.SG	29-Sep-2023	02-Oct-2023	14 days	4 days	~	06-Oct-2023	40 days	4 days	~
Physical Tests : Conductivity in Water										
HDPE [ON MECP] DUP23-01	E100	29-Sep-2023	03-Oct-2023	28 days	4 days	4	03-Oct-2023	28 days	4 days	1
Physical Tests : Conductivity in Water										
HDPE [ON MECP] MW23-01	E100	29-Sep-2023	03-Oct-2023	28 days	4 days	4	03-Oct-2023	28 days	4 days	*
Physical Tests : Conductivity in Water										
HDPE [ON MECP] MW23-03	E100	29-Sep-2023	03-Oct-2023	28 days	4 days	1	03-Oct-2023	28 days	4 days	1
Physical Tests : pH by Meter										
HDPE [ON MECP] DUP23-01	E108	29-Sep-2023	03-Oct-2023	14 days	4 days	4	03-Oct-2023	14 days	4 days	1
Physical Tests : pH by Meter										
HDPE [ON MECP] MW23-01	E108	29-Sep-2023	03-Oct-2023	14 days	4 days	4	03-Oct-2023	14 days	4 days	1
Physical Tests : pH by Meter										
HDPE [ON MECP] MW23-03	E108	29-Sep-2023	03-Oct-2023	14 days	4 days	4	03-Oct-2023	14 days	4 days	1
				1	I	ļ	1	1		

Page :	6 of 10
Work Order :	WT2331569
Client :	Englobe Corp.
Project :	02302109.001



Aatrix: Water					E٧	aluation: × =	Holding time exce	edance ; •	<pre>< = Within</pre>	Holding Ti
Analyte Group	Method Sampling Date Extraction / Preparation		Extraction / Preparation			Analysis				
Container / Client Sample ID(s)			Preparation	Holding	g Times	Eval	Analysis Date	Holding	, Times	Eval
			Date	Rec	Actual			Rec	Actual	
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
DUP23-01	E532A	29-Sep-2023					03-Oct-2023	28 days	4 days	~
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
MW23-01	E532A	29-Sep-2023					03-Oct-2023	28 days	4 days	1
Speciated Metals : Dissolved Hexavalent Chromium (Cr VI) by IC										
HDPE - dissolved (NaOH+Buf) [ON MECP]										
MW23-03	E532A	29-Sep-2023					03-Oct-2023	28 days	4 days	1
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate)	50//5					,				,
DUP23-01	E611D	29-Sep-2023	03-Oct-2023	14	4 days	1	03-Oct-2023	14 days	4 days	1
				days						
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS				1						
Glass vial (sodium bisulfate) MW23-01	E611D	29-Sep-2023	03-Oct-2023		4 days	1	03-Oct-2023	14 days	1 days	1
MWZ3-01	EOTID	29-3ep-2023	03-001-2023	14 days	4 uays	•	03-001-2023	14 uays	4 uays	•
				uays						
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) MW23-03	E611D	29-Sep-2023	03-Oct-2023	14	4 days	1	03-Oct-2023	14 days	4 days	1
1010/20-00	Lotte	20 000 2020	00-001-2020	days	- duy5	-	00-001-2020	14 duys	4 duy5	·
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS				44,5			1			
Glass vial (sodium bisulfate)										
TRIP BLANK	E611D	29-Sep-2023	04-Oct-2023	14	5 days	✓	04-Oct-2023	14 days	5 days	✓
				days						

Legend & Qualifier Definitions

Rec. HT: ALS recommended hold time (see units).

Page	:	7 of 10
Work Order	:	WT2331569
Client	:	Englobe Corp.
Project	:	02302109.001



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.

Quality Control Sample Type				ount		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	1168023	2	20	10.0	5.0	1
Chloride in Water by IC	E235.Cl	1165086	1	9	11.1	5.0	1
Conductivity in Water	E100	1165091	1	5	20.0	5.0	✓
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A	1165144	1	5	20.0	5.0	1
Dissolved Mercury in Water by CVAAS	E509	1164701	1	8	12.5	5.0	1
Dissolved Metals in Water by CRC ICPMS	E421	1164449	1	18	5.5	5.0	✓
pH by Meter	E108	1165090	1	18	5.5	5.0	1
VOCs (Eastern Canada List) by Headspace GC-MS	E611D	1168022	3	39	7.6	5.0	✓
WAD Cyanide	E336	1167376	1	8	12.5	5.0	✓
Laboratory Control Samples (LCS)						, ,	
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L	1168023	2	20	10.0	5.0	1
Chloride in Water by IC	E235.Cl	1165086	1	9	11.1	5.0	<u> </u>
Conductivity in Water	E100	1165091	1	5	20.0	5.0	<u> </u>
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A	1165144	1	5	20.0	5.0	1
Dissolved Mercury in Water by CVAAS	E509	1164701	1	8	12.5	5.0	1
Dissolved Metals in Water by CRC ICPMS	E421	1164449	1	18	5.5	5.0	✓
pH by Meter	E108	1165090	1	18	5.5	5.0	✓
Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID	E601.SG	1164560	1	19	5.2	5.0	✓
VOCs (Eastern Canada List) by Headspace GC-MS	E611D	1168022	2	39	5.1	5.0	✓
WAD Cyanide	E336	1167376	1	8	12.5	5.0	✓
Method Blanks (MB)							
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L	1168023	2	20	10.0	5.0	1
Chloride in Water by IC	E235.Cl	1165086	1	9	11.1	5.0	<u> </u>
Conductivity in Water	E100	1165091	1	5	20.0	5.0	1
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A	1165144	1	5	20.0	5.0	1
Dissolved Mercury in Water by CVAAS	E509	1164701	1	8	12.5	5.0	1
Dissolved Metals in Water by CRC ICPMS	E421	1164449	1	18	5.5	5.0	✓
Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID	E601.SG	1164560	1	19	5.2	5.0	✓
VOCs (Eastern Canada List) by Headspace GC-MS	E611D	1168022	2	39	5.1	5.0	✓
NAD Cyanide	E336	1167376	1	8	12.5	5.0	✓
Matrix Spikes (MS)							
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L	1168023	2	20	10.0	5.0	1
Chloride in Water by IC	E235.Cl	1165086	1	9	11.1	5.0	
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A	1165144	1	5	20.0	5.0	
Dissolved Mercury in Water by CVAAS	E509	1164701	1	8	12.5	5.0	

Page :	8 of 10
Work Order :	WT2331569
Client :	Englobe Corp.
Project :	02302109.001



Matrix: Water		Evaluatio	n: × = QC frequ	ency outside spe	ecification; ✓ = (QC frequency wit	thin specification.
Quality Control Sample Type			Co	ount		Frequency (%))
Analytical Methods	Method	QC Lot #	QC	Regular	Actual	Expected	Evaluation
Matrix Spikes (MS) - Continued							
Dissolved Metals in Water by CRC ICPMS	E421	1164449	1	18	5.5	5.0	1
VOCs (Eastern Canada List) by Headspace GC-MS	E611D	1168022	2	39	5.1	5.0	✓
WAD Cyanide	E336	1167376	1	8	12.5	5.0	✓

Page	:	9 of 10
Work Order	:	WT2331569
Client	:	Englobe Corp.
Project	:	02302109.001



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	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
	ALS Environmental -			sample. Conductivity measurements are temperature-compensated to 25°C.
	Waterloo			
pH by Meter	E108	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,
	ALS Environmental -			pH should be measured in the field within the recommended 15 minute hold time.
	Waterloo			
Chloride in Water by IC	E235.Cl	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and /or UV detection.
	ALS Environmental -			
	Waterloo			
WAD Cyanide	E336	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.
	ALS Environmental -			(
	Waterloo			
Dissolved Metals in Water by CRC ICPMS	E421	Water	APHA 3030B/EPA 6020B (mod)	Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by Collision/Reaction Cell ICPMS.
	ALS Environmental -			
	Waterloo			Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered
				by this method.
Dissolved Mercury in Water by CVAAS	E509	Water	APHA 3030B/EPA	Water samples are filtered (0.45 um), preserved with HCl, then undergo a cold-oxidation
			1631E (mod)	using bromine monochloride prior to reduction with stannous chloride, and analyzed by
	ALS Environmental -		, , ,	CVAAS.
	Waterloo			
Dissolved Hexavalent Chromium (Cr VI) by IC	E532A	Water	APHA 3500-Cr C (Ion Chromatography)	Hexavalent Chromium is measured by Ion chromatography-Post column reaction and UV detection.
	ALS Environmental -		omoniatography)	
	Waterloo			sample pretreatment involved field or lab filtration following by sample preservation.
CCME PHC - F1 by Headspace GC-FID (Low	E581.F1-L	Water	CCME PHC in Soil - Tier	CCME Fraction 1 (F1) is analyzed by static headspace GC-FID. Samples are prepared in
Level)			1 (mod)	headspace vials and are heated and agitated on the headspace autosampler, causing
,	ALS Environmental -		· · ·	VOCs to partition between the aqueous phase and the headspace in accordance with
	Waterloo			Henry's law.
				Analytical methods for CCME Petroleum Hydrocarbons (PHCs) are validated to comply
				fully with the Reference Method for the Canada-Wide Standard for PHC. Unless
				qualified, all required quality control criteria of the CCME PHC method have been met,
				including response factor and linearity requirements.

Page	:	10 of 10
Work Order	:	WT2331569
Client	:	Englobe Corp.
Project	:	02302109.001



Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID	E601.SG ALS Environmental - Waterloo	Water	CCME PHC in Soil - Tier 1 (mod)	Sample extracts are subjected to in-situ silica gel treatment prior to analysis by GC-FID for CCME hydrocarbon fractions (F2-F4). Analytical methods for CCME Petroleum Hydrocarbons (PHCs) are validated to comply fully with the Reference Method for the Canada-Wide Standard for PHC. Unless qualified, all required quality control criteria of the CCME PHC method have been met, including response factor and linearity requirements.
VOCs (Eastern Canada List) by Headspace GC-MS	E611D ALS Environmental - Waterloo	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.
F1-BTEX	EC580 ALS Environmental - Waterloo	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 ALS Environmental - Waterloo	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.
Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Dissolved Metals Water Filtration	EP421 ALS Environmental - Waterloo	Water	APHA 3030B	Water samples are filtered (0.45 um), and preserved with HNO3.
Dissolved Mercury Water Filtration	ALS Environmental - Waterloo	Water	APHA 3030B	Water samples are filtered (0.45 um), and preserved with HCI.
VOCs Preparation for Headspace Analysis	EP581 ALS Environmental - Waterloo	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 ALS Environmental - Waterloo	Water	EPA 3511 (mod)	Petroleum Hydrocarbons (PHCs) and Polycyclic Aromatic Hydrocarbons (PAHs) are extracted using a hexane liquid-liquid extraction.

ALS Canada Ltd.



QUALITY CONTROL REPORT Work Order Page : 1 of 18 WT2331569 Client : Englobe Corp. Laboratory : ALS Environmental - Waterloo Jessica Godin Account Manager : Gayle Braun Contact Address Address : 353 Bridge Street East :60 Northland Road, Unit 1 Kitchener ON Canada N2K 2Y5 Waterloo, Ontario Canada N2V 2B8 Telephone Telephone :+1 519 886 6910 Project Date Samples Received :02-Oct-2023 08:30 :02302109.001 PO Date Analysis Commenced :02-Oct-2023 :----C-O-C number Issue Date :20-1083259 : 10-Oct-2023 14:19 Sampler : AG Site · ____ Quote number KITCHENER/LONDON GW SOA No. of samples received :4 No. of samples analysed : 4

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	Manager - Inorganics	Waterloo Inorganics, Waterloo, Ontario
Greg Pokocky	Manager - Inorganics	Waterloo Metals, Waterloo, Ontario
Jeremy Gingras	Supervisor - Semi-Volatile Instrumentation	Waterloo Organics, Waterloo, Ontario
Jon Fisher	Production Manager, Environmental	Waterloo Inorganics, Waterloo, Ontario
Sarah Birch	VOC Section Supervisor	Waterloo VOC, Waterloo, Ontario

Page :	2 of 18
Work Order :	WT2331569
Client :	Englobe Corp.
Project :	02302109.001



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.

Page :	3 of 18
Work Order	WT2331569
Client :	Englobe Corp.
Project :	02302109.001



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).

ub-Matrix: Water							Labora	tory Duplicate (D	UP) Report		
aboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifie
Physical Tests (QC											
VT2331569-001	MW23-01	рН		E108	0.10	pH units	7.55	7.59	0.528%	4%	
Physical Tests (QC	Lot: 1165091)										
NT2331569-001	MW23-01	Conductivity		E100	1.0	μS/cm	2.18 mS/cm	2190	0.458%	10%	
nions and Nutrien	ts (QC Lot: 1165086)										
VT2331306-001	Anonymous	Chloride	16887-00-6	E235.CI	0.50	mg/L	25.0	24.8	0.504%	20%	
yanides (QC Lot:	1167376)										
NP2324357-003	Anonymous	Cyanide, weak acid dissociable		E336	0.0050	mg/L	<0.0050	<0.0050	0	Diff <2x LOR	
Dissolved Metals (QC Lot: 1164449)										
NT2331477-002	Anonymous	Antimony, dissolved	7440-36-0	E421	0.00100	mg/L	<1.00 µg/L	<0.00100	0	Diff <2x LOR	
		Arsenic, dissolved	7440-38-2	E421	0.00100	mg/L	<1.00 µg/L	<0.00100	0	Diff <2x LOR	
		Barium, dissolved	7440-39-3	E421	0.00100	mg/L	98.2 µg/L	0.0999	1.71%	20%	
		Beryllium, dissolved	7440-41-7	E421	0.000200	mg/L	<0.200 µg/L	<0.000200	0	Diff <2x LOR	
		Boron, dissolved	7440-42-8	E421	0.100	mg/L	142 µg/L	0.138	0.004	Diff <2x LOR	
		Cadmium, dissolved	7440-43-9	E421	0.0000500	mg/L	<0.0500 µg/L	<0.0000500	0	Diff <2x LOR	
		Chromium, dissolved	7440-47-3	E421	0.00500	mg/L	<5.00 µg/L	<0.00500	0	Diff <2x LOR	
		Cobalt, dissolved	7440-48-4	E421	0.00100	mg/L	<1.00 µg/L	<0.00100	0	Diff <2x LOR	
		Copper, dissolved	7440-50-8	E421	0.00200	mg/L	<2.00 µg/L	<0.00200	0	Diff <2x LOR	
		Lead, dissolved	7439-92-1	E421	0.000500	mg/L	<0.500 µg/L	<0.000500	0	Diff <2x LOR	
		Molybdenum, dissolved	7439-98-7	E421	0.000500	mg/L	0.963 µg/L	0.00106	0.000096	Diff <2x LOR	
		Nickel, dissolved	7440-02-0	E421	0.00500	mg/L	<5.00 µg/L	<0.00500	0	Diff <2x LOR	
		Selenium, dissolved	7782-49-2	E421	0.000500	mg/L	1.71 µg/L	0.00194	0.000225	Diff <2x LOR	
		Silver, dissolved	7440-22-4	E421	0.000100	mg/L	<0.100 µg/L	<0.000100	0	Diff <2x LOR	
		Sodium, dissolved	7440-23-5	E421	0.500	mg/L	730000 µg/L	734	0.547%	20%	
		Thallium, dissolved	7440-28-0	E421	0.000100	mg/L	<0.100 µg/L	<0.000100	0	Diff <2x LOR	
		Uranium, dissolved	7440-61-1	E421	0.000100	mg/L	2.54 µg/L	0.00243	4.28%	20%	
		Vanadium, dissolved	7440-62-2	E421	0.00500	mg/L	<5.00 µg/L	<0.00500	0	Diff <2x LOR	
		Zinc, dissolved	7440-66-6	E421	0.0100	mg/L	<10.0 µg/L	<0.0100	0	Diff <2x LOR	
issolved Metals (QC Lot: 1164701)										
VT2331407-004	Anonymous	Mercury, dissolved	7439-97-6	E509	0.0000050	mg/L	<0.0050 µg/L	<0.0000050	0	Diff <2x LOR	

Page	:	4 of 18
Work Order	:	WT2331569
Client	:	Englobe Corp.
Project	:	02302109.001



Sub-Matrix: Water							Labora	tory Duplicate (D	UP) 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: 1165144) -c	ontinued									
WT2331569-001	MW23-01	Chromium, hexavalent [Cr VI], dissolved	18540-29-9	E532A	0.00050	mg/L	<0.50 µg/L	<0.00050	0	Diff <2x LOR	
Volatile Organic Co	mpounds (QC Lot: 1										
WT2331562-001	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	

Page	:	5 of 18
Work Order	:	WT2331569
Client	:	Englobe Corp.
Project	:	02302109.001



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	Qualifie
Volatile Organic Co	mpounds (QC Lot: 1	165127) - continued									
WT2331562-001	Anonymous	Toluene	108-88-3	E611D	0.50	μg/L	<0.50	<0.50	0	Diff <2x LOR	
		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	
Volatile Organic Co	mpounds (QC Lot: 1	168022)									
WT2331542-001	Anonymous	Dichloroethylene, trans-1,2-	156-60-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	
WT2331542-001	Anonymous	Acetone	67-64-1	E611D	20	µg/L	<20	<20	0	Diff <2x LOR	
		Benzene	71-43-2	E611D	0.50	µg/L	19.0	19.6	2.85%	30%	
		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	2.00	µg/L	<2.00	<2.00	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	1.01	1.03	0.02	Diff <2x LOR	
		Dichloromethane	75-09-2	E611D	6.0	µg/L	<6.0	<6.0	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-	10061-01-5	E611D	0.30	μg/L	< 0.30	<0.30	0	Diff <2x LOR	
			100-41-4	E611D	0.50	μg/L	34.6	36.0	3.82%	30%	
		Ethylbenzene	100-41-4	LUTID	0.00	µg/∟	04.0	50.0	0.0270	5070	

Page	:	6 of 18
Work Order	:	WT2331569
Client	:	Englobe Corp.
Project	:	02302109.001



ub-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 Co	mpounds (QC Lot: 1168	022) - continued									
WT2331542-001	Anonymous	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	5.35	5.56	3.85%	30%	
		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	43.2	44.5	3.15%	30%	
		Xylene, o-	95-47-6	E611D	0.30	µg/L	21.8	22.7	4.09%	30%	
lydrocarbons (QC	Lot: 1165128)										
WT2331562-001	Anonymous	F1 (C6-C10)		E581.F1-L	25	µg/L	<25	<25	0	Diff <2x LOR	
lydrocarbons (QC	Lot: 1168023)										
VT2331542-001	Anonymous	F1 (C6-C10)		E581.F1-L	25	µg/L	322	369	13.7%	30%	

Page	:	7 of 18
Work Order	:	WT2331569
Client	:	Englobe Corp.
Project	:	02302109.001



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.

nalyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Physical Tests (QCLot: 1165091)						
Conductivity		E100	1	μS/cm	1.5	
nions and Nutrients (QCLot: 1165086	6)					
Chloride	16887-00-6	E235.Cl	0.5	mg/L	<0.50	
Cyanides (QCLot: 1167376)						
Cyanide, weak acid dissociable		E336	0.002	mg/L	<0.0020	
Dissolved Metals (QCLot: 1164449)						
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	<0.000050	
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	
issolved Metals (QCLot: 1164701)				1		
Mercury, dissolved	7439-97-6	E509	0.000005	mg/L	<0.000050	
peciated Metals (QCLot: 1165144)				1		
Chromium, hexavalent [Cr VI], dissolved	18540-29-9	E532A	0.0005	mg/L	<0.00050	
/olatile Organic Compounds (QCLot:	1165127)					
Acetone	67-64-1	E611D	20	µg/L	<20	
Benzene	71-43-2	E611D	0.5	µg/L	<0.50	

Page :	8 of 18
Work Order :	WT2331569
Client :	Englobe Corp.
Project :	02302109.001



Sub-Matrix: Water

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Volatile Organic Compounds (QCLc	ot: 1165127) - continued					
Bromodichloromethane	75-27-4	E611D	0.5	µg/L	<0.50	
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	

Page	:	9 of 18
Work Order	:	WT2331569
Client	:	Englobe Corp.
Project	:	02302109.001



Sub-Matrix: Water

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Volatile Organic Compounds (QCL	ot: 1165127) - continued					
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	
Xylene, o-	95-47-6	E611D	0.3	µg/L	<0.30	
Volatile Organic Compounds (QCL	ot: 1168022)					
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	
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	

Page	:	10 of 18
Work Order	:	WT2331569
Client	:	Englobe Corp.
Project	:	02302109.001



Sub-Matrix: Water

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Volatile Organic Compounds (QC	Lot: 1168022) - continued					
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	
Xylene, o-	95-47-6	E611D	0.3	μg/L	<0.30	
Hydrocarbons (QCLot: 1164560)						
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	
Hydrocarbons (QCLot: 1165128)						
F1 (C6-C10)		E581.F1-L	25	µg/L	<25	
Hydrocarbons (QCLot: 1168023)						
F1 (C6-C10)		E581.F1-L	25	μg/L	<25	

Page	:	11 of 18
Work Order	:	WT2331569
Client	:	Englobe Corp.
Project	:	02302109.001



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 M	lethod	LOR	Unit	Concentration	LCS	Low	High	Qualifier
Physical Tests (QCLot: 1165090)									
pH	E	108		pH units	7 pH units	101	98.0	102	
Physical Tests (QCLot: 1165091)									
Conductivity	E	100	1	μS/cm	1409 µS/cm	102	90.0	110	
Anions and Nutrients (QCLot: 1165086)									
Chloride	16887-00-6 E	235.CI	0.5	mg/L	100 mg/L	99.8	90.0	110	
Cyanides (QCLot: 1167376)									
Cyanide, weak acid dissociable	E	336	0.002	mg/L	0.125 mg/L	101	80.0	120	
Dissolved Metals (QCLot: 1164449)									
Antimony, dissolved	7440-36-0 E		0.0001	mg/L	0.05 mg/L	101	80.0	120	
Arsenic, dissolved	7440-38-2 E		0.0001	mg/L	0.05 mg/L	107	80.0	120	
Barium, dissolved	7440-39-3 E		0.0001	mg/L	0.0125 mg/L	102	80.0	120	
Beryllium, dissolved	7440-41-7 E	421	0.00002	mg/L	0.005 mg/L	94.9	80.0	120	
Boron, dissolved	7440-42-8 E	421	0.01	mg/L	0.05 mg/L	93.8	80.0	120	
Cadmium, dissolved	7440-43-9 E	421	0.000005	mg/L	0.005 mg/L	101	80.0	120	
Chromium, dissolved	7440-47-3 E	421	0.0005	mg/L	0.0125 mg/L	102	80.0	120	
Cobalt, dissolved	7440-48-4 E	421	0.0001	mg/L	0.0125 mg/L	102	80.0	120	
Copper, dissolved	7440-50-8 E	421	0.0002	mg/L	0.0125 mg/L	102	80.0	120	
Lead, dissolved	7439-92-1 E	421	0.00005	mg/L	0.025 mg/L	94.0	80.0	120	
Molybdenum, dissolved	7439-98-7 E	421	0.00005	mg/L	0.0125 mg/L	97.2	80.0	120	
Nickel, dissolved	7440-02-0 E	421	0.0005	mg/L	0.025 mg/L	100	80.0	120	
Selenium, dissolved	7782-49-2 E	421	0.00005	mg/L	0.05 mg/L	101	80.0	120	
Silver, dissolved	7440-22-4 E	421	0.00001	mg/L	0.005 mg/L	91.1	80.0	120	
Sodium, dissolved	7440-23-5 E	421	0.05	mg/L	2.5 mg/L	111	80.0	120	
Thallium, dissolved	7440-28-0 E	421	0.00001	mg/L	0.05 mg/L	99.7	80.0	120	
Uranium, dissolved	7440-61-1 E	421	0.00001	mg/L	0.00025 mg/L	88.9	80.0	120	
Vanadium, dissolved	7440-62-2 E	421	0.0005	mg/L	0.025 mg/L	103	80.0	120	
Zinc, dissolved	7440-66-6 E	421	0.001	mg/L	0.025 mg/L	107	80.0	120	
Mercury, dissolved	7439-97-6 E	509	0.000005	mg/L	0.0001 mg/L	86.2	80.0	120	

Page :	12 of 18
Work Order :	WT2331569
Client :	Englobe Corp.
Project :	02302109.001



Sub-Matrix: Water					Laboratory Control Sample (LCS) Report					
				Spike Recovery (%) Recovery Limits (%)						
Analyte	CAS Number Me	ethod	LOR	Unit	Concentration	LCS	Low	High	Qualifie	
Speciated Metals (QCLot: 1165144) - con	tinued									
Chromium, hexavalent [Cr VI], dissolved	18540-29-9 E5	32A	0.0005	mg/L	0.025 mg/L	94.4	80.0	120		
Volatile Organic Compounds (QCLot: 116										
Acetone	67-64-1 E6	11D	20	µg/L	100 µg/L	117	70.0	130		
Benzene	71-43-2 E6	11D	0.5	µg/L	100 µg/L	111	70.0	130		
Bromodichloromethane	75-27-4 E6	11D	0.5	µg/L	100 µg/L	114	70.0	130		
Bromoform	75-25-2 E6	11D	0.5	µg/L	100 µg/L	108	70.0	130		
Bromomethane	74-83-9 E6	11D	0.5	µg/L	100 µg/L	114	60.0	140		
Carbon tetrachloride	56-23-5 E6	11D	0.2	µg/L	100 µg/L	116	70.0	130		
Chlorobenzene	108-90-7 E6	11D	0.5	µg/L	100 µg/L	106	70.0	130		
Chloroform	67-66-3 E6	11D	0.5	µg/L	100 µg/L	114	70.0	130		
Dibromochloromethane	124-48-1 E6	11D	0.5	µg/L	100 µg/L	111	70.0	130		
Dibromoethane, 1,2-	106-93-4 E6	11D	0.2	µg/L	100 µg/L	102	70.0	130		
Dichlorobenzene, 1,2-	95-50-1 E6	11D	0.5	µg/L	100 µg/L	110	70.0	130		
Dichlorobenzene, 1,3-	541-73-1 E6	11D	0.5	µg/L	100 µg/L	112	70.0	130		
Dichlorobenzene, 1,4-	106-46-7 E6	11D	0.5	µg/L	100 µg/L	111	70.0	130		
Dichlorodifluoromethane	75-71-8 E6	11D	0.5	µg/L	100 µg/L	90.6	60.0	140		
Dichloroethane, 1,1-	75-34-3 E6	11D	0.5	µg/L	100 µg/L	107	70.0	130		
Dichloroethane, 1,2-	107-06-2 E6	11D	0.5	µg/L	100 µg/L	111	70.0	130		
Dichloroethylene, 1,1-	75-35-4 E6	11D	0.5	µg/L	100 µg/L	115	70.0	130		
Dichloroethylene, cis-1,2-	156-59-2 E6	11D	0.5	µg/L	100 µg/L	112	70.0	130		
Dichloroethylene, trans-1,2-	156-60-5 E6	11D	0.5	µg/L	100 µg/L	118	70.0	130		
Dichloromethane	75-09-2 E6	11D	1	µg/L	100 μg/L	116	70.0	130		
Dichloropropane, 1,2-	78-87-5 E6	11D	0.5	µg/L	100 μg/L	111	70.0	130		
Dichloropropylene, cis-1,3-	10061-01-5 E6	11D	0.3	µg/L	100 µg/L	98.5	70.0	130		
Dichloropropylene, trans-1,3-	10061-02-6 E6	11D	0.3	μg/L	100 µg/L	93.1	70.0	130		
Ethylbenzene	100-41-4 E6	11D	0.5	μg/L	100 µg/L	103	70.0	130		
Hexane, n-	110-54-3 E6	11D	0.5	μg/L	100 µg/L	114	70.0	130		
Methyl ethyl ketone [MEK]	78-93-3 E6		20	μg/L	100 µg/L	99.8	70.0	130		
Methyl isobutyl ketone [MIBK]	108-10-1 E6		20	μg/L	100 µg/L	91.0	70.0	130		
Methyl-tert-butyl ether [MTBE]	1634-04-4 E6		0.5	μg/L	100 µg/L	104	70.0	130		
Styrene	100-42-5 E6		0.5	μg/L	100 µg/L	107	70.0	130		
Tetrachloroethane, 1,1,1,2-	630-20-6 E6		0.5	μg/L	100 μg/L	111	70.0	130		
Tetrachloroethane, 1,1,2,2-	79-34-5 E6		0.5	μg/L	100 µg/L	118	70.0	130		
Tetrachloroethylene	127-18-4 E6		0.5	μg/L	100 μg/L	118	70.0	130		
Toluene	108-88-3 E6		0.5	μg/L	100 μg/L	110	70.0	130		

Page :	13 of 18
Work Order :	WT2331569
Client :	Englobe Corp.
Project :	02302109.001



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 (QCLo	t: 1165127) - continued								
Trichloroethane, 1,1,1-		E611D	0.5	µg/L	100 µg/L	107	70.0	130	
Trichloroethane, 1,1,2-	79-00-5	E611D	0.5	µg/L	100 µg/L	106	70.0	130	
Trichloroethylene	79-01-6	E611D	0.5	µg/L	100 µg/L	115	70.0	130	
Trichlorofluoromethane	75-69-4	E611D	0.5	µg/L	100 µg/L	111	60.0	140	
Vinyl chloride	75-01-4	E611D	0.5	µg/L	100 µg/L	115	60.0	140	
Xylene, m+p-	179601-23-1	E611D	0.4	µg/L	200 µg/L	108	70.0	130	
Xylene, o-	95-47-6	E611D	0.3	µg/L	100 µg/L	109	70.0	130	
Volatile Organic Compounds (QCLo	t: 1168022)								
Acetone		E611D	20	µg/L	100 µg/L	92.9	70.0	130	
Benzene	71-43-2	E611D	0.5	µg/L	100 µg/L	102	70.0	130	
Bromodichloromethane	75-27-4	E611D	0.5	µg/L	100 µg/L	96.2	70.0	130	
Bromoform	75-25-2	E611D	0.5	µg/L	100 µg/L	79.7	70.0	130	
Bromomethane	74-83-9	E611D	0.5	µg/L	100 µg/L	96.9	60.0	140	
Carbon tetrachloride	56-23-5	E611D	0.2	µg/L	100 µg/L	92.0	70.0	130	
Chlorobenzene	108-90-7	E611D	0.5	µg/L	100 µg/L	101	70.0	130	
Chloroform	67-66-3	E611D	0.5	µg/L	100 µg/L	95.0	70.0	130	
Dibromochloromethane	124-48-1	E611D	0.5	µg/L	100 µg/L	85.2	70.0	130	
Dibromoethane, 1,2-	106-93-4	E611D	0.2	µg/L	100 µg/L	83.5	70.0	130	
Dichlorobenzene, 1,2-	95-50-1	E611D	0.5	µg/L	100 µg/L	98.5	70.0	130	
Dichlorobenzene, 1,3-	541-73-1	E611D	0.5	μg/L	100 µg/L	102	70.0	130	
Dichlorobenzene, 1,4-	106-46-7	E611D	0.5	μg/L	100 µg/L	96.0	70.0	130	
Dichlorodifluoromethane	75-71-8	E611D	0.5	μg/L	100 µg/L	72.6	60.0	140	
Dichloroethane, 1,1-	75-34-3		0.5	μg/L	100 µg/L	101	70.0	130	
Dichloroethane, 1,2-	107-06-2	E611D	0.5	μg/L	100 µg/L	97.0	70.0	130	
Dichloroethylene, 1,1-		E611D	0.5	μg/L	100 µg/L	97.7	70.0	130	
Dichloroethylene, cis-1,2-	156-59-2		0.5	μg/L	100 μg/L	96.2	70.0	130	
Dichloroethylene, trans-1,2-	156-60-5		0.5	µg/L	100 μg/L	101	70.0	130	
Dichloromethane		E611D	1	µg/L	100 μg/L	94.9	70.0	130	
Dichloropropane, 1,2-		E611D	0.5	μg/L	100 µg/L	96.5	70.0	130	
Dichloropropylene, cis-1,3-	10061-01-5		0.3	μg/L	100 μg/L	92.1	70.0	130	
Dichloropropylene, trans-1,3-	10061-02-6		0.3	μg/L	100 μg/L	86.2	70.0	130	
Ethylbenzene	100-41-4		0.5	μg/L	100 μg/L	104	70.0	130	
Hexane, n-	110-54-3		0.5	μg/L	100 μg/L	104	70.0	130	
Methyl ethyl ketone [MEK]	78-93-3		20	μg/L		87.5	70.0	130	
Methyl isobutyl ketone [MIBK]	108-10-1		20		100 μg/L		70.0	130	
			0.5	µg/L	100 μg/L	70.9	70.0	130	
Methyl-tert-butyl ether [MTBE]	1634-04-4	EUTID	0.5	µg/L	100 µg/L	96.9	70.0	130	

Page :	14 of 18
Work Order :	WT2331569
Client :	Englobe Corp.
Project :	02302109.001



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 (QCLo	ot: 1168022) - continued								
Styrene	100-42-5	E611D	0.5	µg/L	100 µg/L	101	70.0	130	
Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.5	µg/L	100 µg/L	88.7	70.0	130	
Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.5	μg/L	100 µg/L	92.1	70.0	130	
Tetrachloroethylene	127-18-4	E611D	0.5	µg/L	100 µg/L	106	70.0	130	
Toluene	108-88-3	E611D	0.5	µg/L	100 µg/L	101	70.0	130	
Trichloroethane, 1,1,1-	71-55-6	E611D	0.5	µg/L	100 µg/L	95.2	70.0	130	
Trichloroethane, 1,1,2-	79-00-5	E611D	0.5	µg/L	100 µg/L	89.0	70.0	130	
Trichloroethylene	79-01-6	E611D	0.5	µg/L	100 µg/L	102	70.0	130	
Trichlorofluoromethane	75-69-4	E611D	0.5	µg/L	100 µg/L	91.8	60.0	140	
Vinyl chloride	75-01-4	E611D	0.5	µg/L	100 µg/L	96.3	60.0	140	
Xylene, m+p-	179601-23-1	E611D	0.4	µg/L	200 µg/L	95.2	70.0	130	
Xylene, o-	95-47-6	E611D	0.3	μg/L	100 µg/L	92.1	70.0	130	
Hydrocarbons (QCLot: 1164560)									
F2 (C10-C16)		E601.SG	100	μg/L	3685.12 µg/L	99.3	70.0	130	
F3 (C16-C34)		E601.SG	250	μg/L	7481.33 µg/L	99.3	70.0	130	
F4 (C34-C50)		E601.SG	250	µg/L	4274.88 μg/L	84.2	70.0	130	
Hydrocarbons (QCLot: 1165128)									
F1 (C6-C10)		E581.F1-L	25	µg/L	2000 µg/L	92.6	80.0	120	
Hydrocarbons (QCLot: 1168023)									
F1 (C6-C10)		E581.F1-L	25	µg/L	2000 µg/L	105	80.0	120	

Page :	15 of 18
Work Order :	WT2331569
Client :	Englobe Corp.
Project :	02302109.001



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						
					Spi	Spike		Recovery	ry Limits (%)	
aboratory sample D	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifie
	ents (QCLot: 11650	86)								1
VT2331306-001	Anonymous	Chloride	16887-00-6	E235.Cl	100 mg/L	100 mg/L	100	75.0	125	
yanides (QCLo	t: 1167376)									
NP2324357-003	Anonymous	Cyanide, weak acid dissociable		E336	0.142 mg/L	0.125 mg/L	113	75.0	125	
issolved Metals	(QCLot: 1164449)									-
NT2331477-004	Anonymous	Antimony, dissolved	7440-36-0	E421	0.0530 mg/L	0.05 mg/L	106	70.0	130	
		Arsenic, dissolved	7440-38-2	E421	0.0567 mg/L	0.05 mg/L	113	70.0	130	
		Barium, dissolved	7440-39-3	E421	ND mg/L	0.0125 mg/L	ND	70.0	130	
		Beryllium, dissolved	7440-41-7	E421	0.00486 mg/L	0.005 mg/L	97.2	70.0	130	
		Boron, dissolved	7440-42-8	E421	ND mg/L	0.05 mg/L	ND	70.0	130	
		Cadmium, dissolved	7440-43-9	E421	0.00510 mg/L	0.005 mg/L	102	70.0	130	
		Chromium, dissolved	7440-47-3	E421	0.0130 mg/L	0.0125 mg/L	104	70.0	130	
		Cobalt, dissolved	7440-48-4	E421	0.0126 mg/L	0.0125 mg/L	100	70.0	130	
		Copper, dissolved	7440-50-8	E421	0.0122 mg/L	0.0125 mg/L	97.6	70.0	130	
		Lead, dissolved	7439-92-1	E421	0.0226 mg/L	0.025 mg/L	90.3	70.0	130	
		Molybdenum, dissolved	7439-98-7	E421	0.0128 mg/L	0.0125 mg/L	102	70.0	130	
		Nickel, dissolved	7440-02-0	E421	0.0243 mg/L	0.025 mg/L	97.3	70.0	130	
		Selenium, dissolved	7782-49-2	E421	0.0552 mg/L	0.05 mg/L	110	70.0	130	
		Silver, dissolved	7440-22-4	E421	0.00439 mg/L	0.005 mg/L	87.8	70.0	130	
		Sodium, dissolved	7440-23-5	E421	ND mg/L	2.5 mg/L	ND	70.0	130	
		Thallium, dissolved	7440-28-0	E421	0.0475 mg/L	0.05 mg/L	94.9	70.0	130	
		Uranium, dissolved	7440-61-1	E421	0.000219 mg/L	0.00025 mg/L	87.5	70.0	130	
		Vanadium, dissolved	7440-62-2	E421	0.0270 mg/L	0.025 mg/L	108	70.0	130	
		Zinc, dissolved	7440-66-6	E421	0.0252 mg/L	0.025 mg/L	101	70.0	130	
issolved Metals	(QCLot: 1164701)									
VT2331407-005	Anonymous	Mercury, dissolved	7439-97-6	E509	0.0000865 mg/L	0.0001 mg/L	86.5	70.0	130	
peciated Metals	(QCLot: 1165144)									
VT2331569-001	MW23-01	Chromium, hexavalent [Cr VI], dissolved	18540-29-9	E532A	0.0382 mg/L	0.04 mg/L	95.5	70.0	130	
olatile Organic	Compounds (QCLo	t: 1165127)								
WT2331562-001	Anonymous	Acetone	67-64-1	E611D	119 μg/L	100 µg/L	119	60.0	140	

Page	:	16 of 18
Work Order	:	WT2331569
Client	:	Englobe Corp.
Project	:	02302109.001



Sub-Matrix: Water				Matrix Spike (MS) Report						
			Spi	Spike Recovery (%) Recovery Limits (%)						
aboratory sample	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifie
	Compounds (QCLo	t: 1165127) - continued					1		1	
WT2331562-001	Anonymous	Benzene	71-43-2	E611D	104 µg/L	100 µg/L	104	60.0	140	
		Bromodichloromethane	75-27-4	E611D	109 µg/L	100 µg/L	109	60.0	140	
		Bromoform	75-25-2	E611D	105 µg/L	100 µg/L	105	60.0	140	
		Bromomethane	74-83-9	E611D	105 µg/L	100 µg/L	105	60.0	140	
		Carbon tetrachloride	56-23-5	E611D	106 µg/L	100 µg/L	106	60.0	140	
		Chlorobenzene	108-90-7	E611D	97.3 μg/L	100 µg/L	97.3	60.0	140	
		Chloroform	67-66-3	E611D	108 µg/L	100 µg/L	108	60.0	140	
		Dibromochloromethane	124-48-1	E611D	107 µg/L	100 µg/L	107	60.0	140	
		Dibromoethane, 1,2-	106-93-4	E611D	99.0 µg/L	100 µg/L	99.0	60.0	140	
		Dichlorobenzene, 1,2-	95-50-1	E611D	101 µg/L	100 µg/L	101	60.0	140	
		Dichlorobenzene, 1,3-	541-73-1	E611D	101 µg/L	100 µg/L	101	60.0	140	
		Dichlorobenzene, 1,4-	106-46-7	E611D	100 µg/L	100 µg/L	100	60.0	140	
		Dichlorodifluoromethane	75-71-8	E611D	77.0 μg/L	100 µg/L	77.0	60.0	140	
		Dichloroethane, 1,1-	75-34-3	E611D	98.4 μg/L	100 µg/L	98.4	60.0	140	
		Dichloroethane, 1,2-	107-06-2	E611D	110 µg/L	100 µg/L	110	60.0	140	
		Dichloroethylene, 1,1-	75-35-4	E611D	104 µg/L	100 µg/L	104	60.0	140	
		Dichloroethylene, cis-1,2-	156-59-2	E611D	107 µg/L	100 µg/L	107	60.0	140	
		Dichloroethylene, trans-1,2-	156-60-5	E611D	108 µg/L	100 µg/L	108	60.0	140	
		Dichloromethane	75-09-2	E611D	111 µg/L	100 µg/L	111	60.0	140	
		Dichloropropane, 1,2-	78-87-5	E611D	106 µg/L	100 µg/L	106	60.0	140	
		Dichloropropylene, cis-1,3-	10061-01-5	E611D	92.6 µg/L	100 µg/L	92.6	60.0	140	
		Dichloropropylene, trans-1,3-	10061-02-6	E611D	87.0 μg/L	100 µg/L	87.0	60.0	140	
		Ethylbenzene	100-41-4	E611D	91.6 µg/L	100 µg/L	91.6	60.0	140	
		Hexane, n-	110-54-3	E611D	99.2 µg/L	100 µg/L	99.2	60.0	140	
		Methyl ethyl ketone [MEK]	78-93-3	E611D	105 µg/L	100 µg/L	105	60.0	140	
		Methyl isobutyl ketone [MIBK]	108-10-1	E611D	93 µg/L	100 µg/L	92.6	60.0	140	
		Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	97.0 μg/L	100 µg/L	97.0	60.0	140	
		Styrene	100-42-5	E611D	97.1 μg/L	100 µg/L	97.1	60.0	140	
		Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	103 µg/L	100 µg/L	103	60.0	140	
		Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	116 µg/L	100 µg/L	116	60.0	140	
		Tetrachloroethylene	127-18-4	E611D	104 µg/L	100 µg/L	104	60.0	140	
		Toluene	108-88-3	E611D	96.6 µg/L	100 µg/L	96.6	60.0	140	
		Trichloroethane, 1,1,1-	71-55-6	E611D	97.8 μg/L	100 µg/L	97.8	60.0	140	
		Trichloroethane, 1,1,2-	79-00-5	E611D	103 µg/L	100 µg/L	103	60.0	140	
	I	Trichloroethylene	79-01-6	E611D	105 µg/L	100 µg/L	105	60.0	140	

Page	:	17 of 18
Work Order	:	WT2331569
Client	:	Englobe Corp.
Project	:	02302109.001



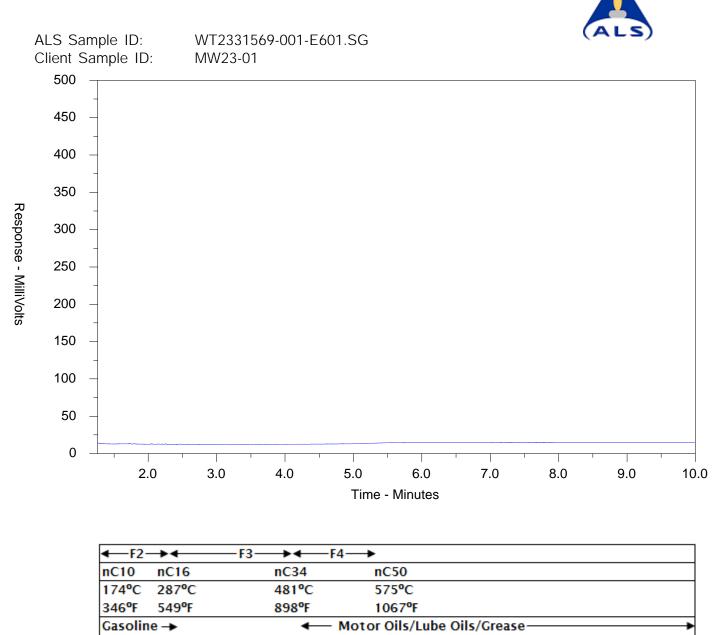
Sub-Matrix: Water			Matrix Spike (MS) Report								
					Spi	ke	Recovery (%)	Recovery	Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier	
	Compounds (QCLo	t: 1165127) - continued							1	1	
WT2331562-001	Anonymous	Trichlorofluoromethane	75-69-4	E611D	99.5 µg/L	100 µg/L	99.5	60.0	140		
		Vinyl chloride	75-01-4	E611D	102 µg/L	100 µg/L	102	60.0	140		
		Xylene, m+p-	179601-23-1	E611D	192 µg/L	200 µg/L	96.3	60.0	140		
		Xylene, o-	95-47-6	E611D	99.1 µg/L	100 µg/L	99.1	60.0	140		
olatile Organic	Compounds (QCLo	t: 1168022)									
NT2331542-001	Anonymous	Acetone	67-64-1	E611D	103 µg/L	100 µg/L	103	60.0	140		
		Benzene	71-43-2	E611D	105 µg/L	100 µg/L	105	60.0	140		
		Bromodichloromethane	75-27-4	E611D	100 µg/L	100 µg/L	100	60.0	140		
		Bromoform	75-25-2	E611D	80.6 µg/L	100 µg/L	80.6	60.0	140		
		Bromomethane	74-83-9	E611D	97.8 µg/L	100 µg/L	97.8	60.0	140		
		Carbon tetrachloride	56-23-5	E611D	88.0 µg/L	100 µg/L	88.0	60.0	140		
		Chlorobenzene	108-90-7	E611D	104 µg/L	100 µg/L	104	60.0	140		
		Chloroform	67-66-3	E611D	96.6 µg/L	100 µg/L	96.6	60.0	140		
		Dibromochloromethane	124-48-1	E611D	87.2 μg/L	100 µg/L	87.2	60.0	140		
		Dibromoethane, 1,2-	106-93-4	E611D	89.6 µg/L	100 µg/L	89.6	60.0	140		
		Dichlorobenzene, 1,2-	95-50-1	E611D	99.8 µg/L	100 µg/L	99.8	60.0	140		
		Dichlorobenzene, 1,3-	541-73-1	E611D	101 µg/L	100 µg/L	101	60.0	140		
		Dichlorobenzene, 1,4-	106-46-7	E611D	94.7 µg/L	100 µg/L	94.7	60.0	140		
		Dichlorodifluoromethane	75-71-8	E611D	67.0 µg/L	100 µg/L	67.0	60.0	140		
		Dichloroethane, 1,1-	75-34-3	E611D	102 µg/L	100 µg/L	102	60.0	140		
		Dichloroethane, 1,2-	107-06-2	E611D	106 µg/L	100 µg/L	106	60.0	140		
		Dichloroethylene, 1,1-	75-35-4	E611D	95.4 µg/L	100 µg/L	95.4	60.0	140		
		Dichloroethylene, cis-1,2-	156-59-2	E611D	98.5 µg/L	100 µg/L	98.5	60.0	140		
		Dichloroethylene, trans-1,2-	156-60-5	E611D	111 µg/L	100 µg/L	111	60.0	140		
		Dichloromethane	75-09-2	E611D	94.5 µg/L	100 µg/L	94.5	60.0	140		
		Dichloropropane, 1,2-	78-87-5	E611D	101 µg/L	100 µg/L	101	60.0	140		
		Dichloropropylene, cis-1,3-	10061-01-5	E611D	89.2 µg/L	100 µg/L	89.2	60.0	140		
		Dichloropropylene, trans-1,3-	10061-02-6	E611D	78.3 µg/L	100 µg/L	78.3	60.0	140		
		Ethylbenzene	100-41-4	E611D	104 µg/L	100 µg/L	104	60.0	140		
		Hexane, n-	110-54-3	E611D	96.2 µg/L	100 µg/L	96.2	60.0	140		
		Methyl ethyl ketone [MEK]	78-93-3	E611D	94 µg/L	100 µg/L	94.4	60.0	140		
		Methyl isobutyl ketone [MIBK]	108-10-1	E611D	77 µg/L	100 µg/L	76.6	60.0	140		
		Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	99.3 µg/L	100 µg/L	99.3	60.0	140		
		Styrene	100-42-5	E611D	102 µg/L	100 µg/L	102	60.0	140		
	1	Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	88.2 µg/L	100 µg/L	88.2	60.0	140		

Page :	18 of 18
Work Order :	WT2331569
Client :	Englobe Corp.
Project :	02302109.001



Sub-Matrix: Water				Matrix Spike (MS) Report						
					Spi	Spike		Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifie
Volatile Organic	Compounds (QCLot: 11	68022) - continued								
WT2331542-001	Anonymous	Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	98.6 µg/L	100 µg/L	98.6	60.0	140	
		Tetrachloroethylene	127-18-4	E611D	102 µg/L	100 µg/L	102	60.0	140	
		Toluene	108-88-3	E611D	101 µg/L	100 µg/L	101	60.0	140	
		Trichloroethane, 1,1,1-	71-55-6	E611D	89.0 µg/L	100 µg/L	89.0	60.0	140	
		Trichloroethane, 1,1,2-	79-00-5	E611D	95.5 μg/L	100 µg/L	95.5	60.0	140	
		Trichloroethylene	79-01-6	E611D	102 µg/L	100 µg/L	102	60.0	140	
		Trichlorofluoromethane	75-69-4	E611D	87.5 μg/L	100 µg/L	87.5	60.0	140	
		Vinyl chloride	75-01-4	E611D	93.6 µg/L	100 µg/L	93.6	60.0	140	
		Xylene, m+p-	179601-23-1	E611D	190 µg/L	200 µg/L	95.1	60.0	140	
		Xylene, o-	95-47-6	E611D	95.3 µg/L	100 µg/L	95.3	60.0	140	
Hydrocarbons (QCLot: 1165128)									
WT2331562-001	Anonymous	F1 (C6-C10)		E581.F1-L	1680 µg/L	2000 µg/L	84.0	60.0	140	
Hydrocarbons (QCLot: 1168023)									
WT2331542-001	Anonymous	F1 (C6-C10)		E581.F1-L	1740 µg/L	2000 µg/L	87.1	60.0	140	

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT



The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

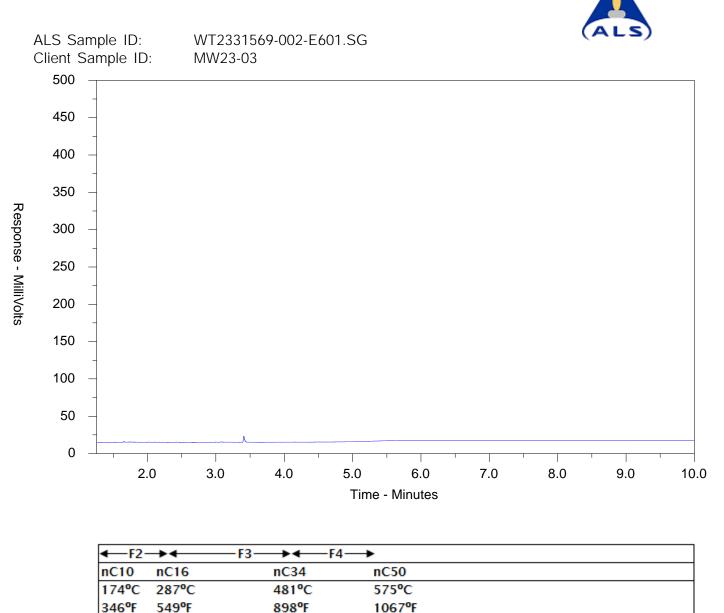
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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 <u>www.alsglobal.com</u>.

Diesel/Jet Fuels→

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT



Gasoline 🔶	Motor Oils/Lube Oils/Grease
← Diesel/Jet Fuels →	
a Diesel/jet lueis	

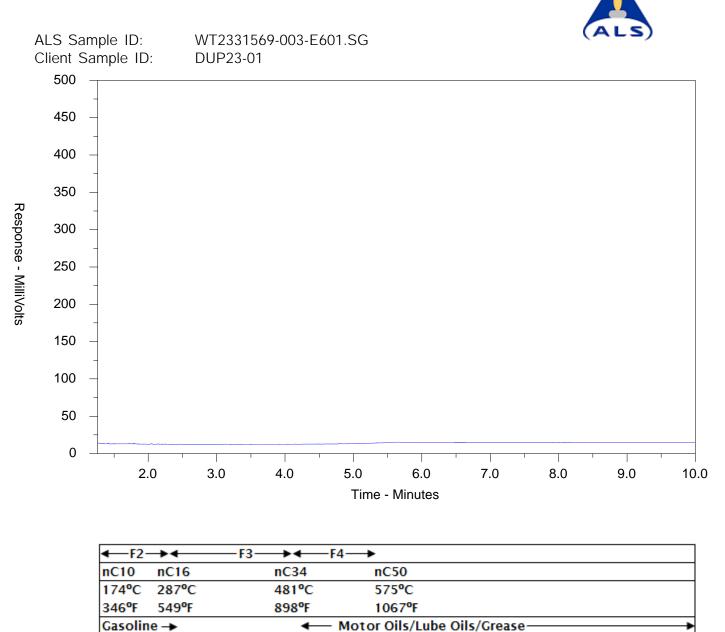
The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

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CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT



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 <u>www.alsglobal.com</u>.

Diesel/Jet Fuels→

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Canada Toll Free: 1 800 668 9878

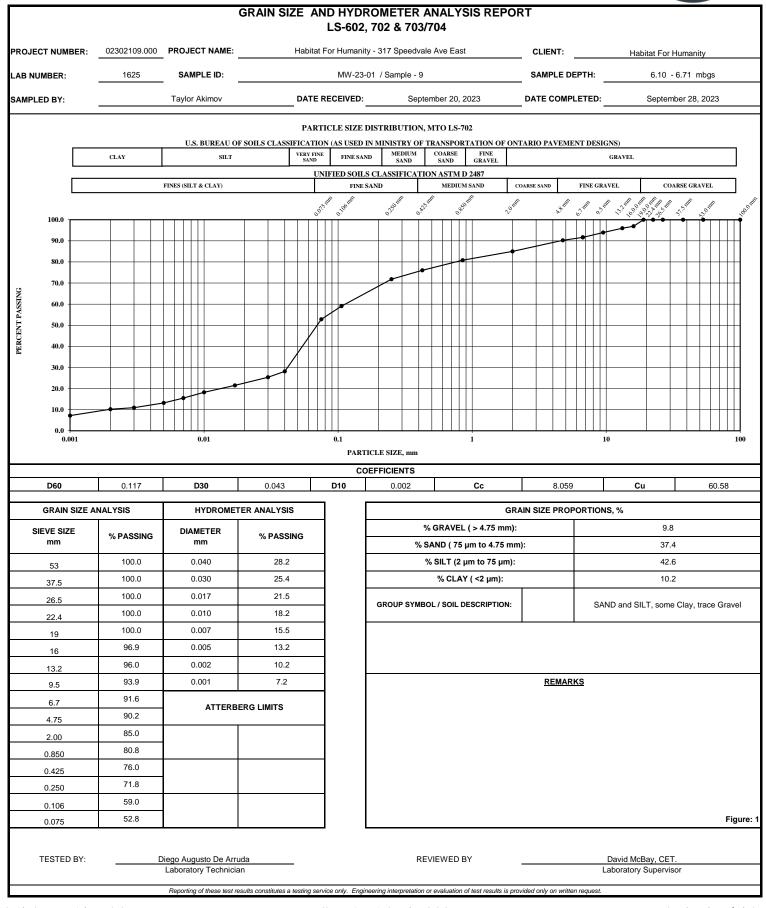
Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy Released by: AFG D. M.B. REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION Are samples for human consumption/ use? Are samples taken from a Regulated DW System PO / AFE: Street: Phone: 1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form ALS Account # / Quote # LSD: Job# 2302101.001 Contact: Invoice To Postal Code: City/Province: Contact: Company: Report To Company: ALN (ALS use only) ALS Sample # ALS Lab Work Order # (ALS use only): (N1333 Drinking Water (DW) Samples¹ (client use) VES V NO U YES NO N2K 245 www.alsglobal.com Copy of Invoice with Report Same as Report To C MW23-01 Endobe Corp 35.3 Bridge Company address below will appear on the final report 226-Dup23-0 W23-03 assia SHIPMENT RELEASE (client use) Contact and company name below will appear on the final report 352 **Project Information** Sample Identification and/or Coordinates (This description will appear on the report) 9370 Date: Sep 30, 2023 TA YES I NO ON \$ 2 1 Compare to Table 2 API standards 1001 Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only) Time: ALS Contact: Broder Email 1 or Fax Jessice. godine end becorp. cci Email 2 or parolo. gence ve solando be core Email 1 or Fax op - cinto englaber com Select Report Format: Received by Requisitioner: AFE/Cost Center. Email 2 Select Invoice Distribution: Email 3 Select Distribution: Compare Results to Criteria on Report - provide details below if box checked Major/Minor Code: ocation: Merge QC/QCI Reports with COA YES INO IN/A Oil and Gas Required Fields (client use) 79-566-23 INITIAL SHIPMENT RECEPTION (ALS use only) (dd-mmm-yy) Date BY BMAIL Reports / Recipients Invoice Recipients EV EMAIL I MAIL I FAX WHITE - LABORATORY COPY D MAIL D FAX Sampler: 16 PO# Routing Code: 18:15 17:00 NA (hh:mm) Time Sample Type GW YELLOW - CLIENT COPY 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 [P3] if received by 3pm M-F - 50% rush surcharge minimum
 1 day [E] if received by 3pm M-F - 50% rush surcharge minimum
 1 day [E] if received by 3pm M-F - 20% rush surcharge minimum
 same day [E2] if received by 3pm M-F - 20% rush surcharge minimum
 may apply to rush requests on weekends, statutory holdays and non-rou Time: 0 00 NUMBER OF CONTAINERS Cooling Method: Cooler Custody Seals Intact: Submission Comments identified on Sample Receipt Notification: PHCS (F1-F4) Date and Time Required for all E&P TATs: U VOCS D NIITIAL COOLER TEMPERATURES °C Received by O. Reg 153/04 Metals& Inorganics **Turnaround Time (TAT) Requested** Indicate Filtered (F), Preserved (P) or Filtered and I NONE For all tests with rush TATs requested, please c D CM SAMPLE RECEIPT DETAILS (ALS use only) TOE DICE PACKS YES NA SHIPMENT RECEPTION (ALS use only) Analysis Re G-C-236 MM-577 Date - Oct-23 Sample Custody Seals Intact: 10.2 FROZEN 1 of 1 Telephone : +1 519 886 6910 Waterloo **Environmental Division** FINAL COOLER TEMPERATURES °C Work Order Reference WT2331569 0K- 229 T YES COOLING INITIATED ON O VES NA SAMPLES ON HOLD EXTENDED STORAGE REC SUSPECTED HAZARD (see

Appendix G Grain Size Distribution Test Results

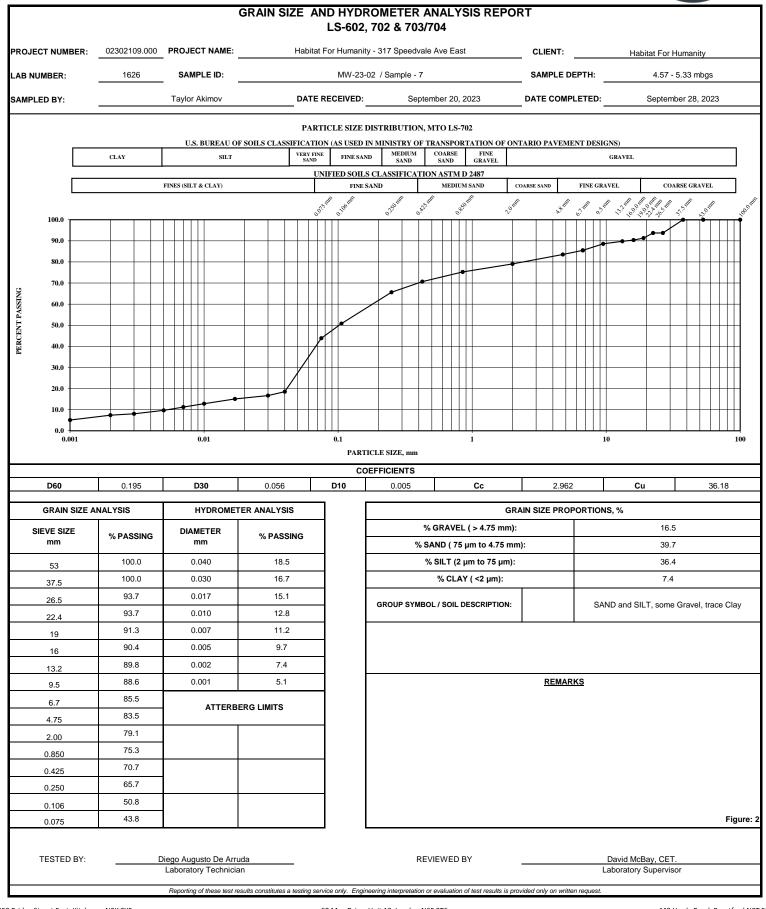




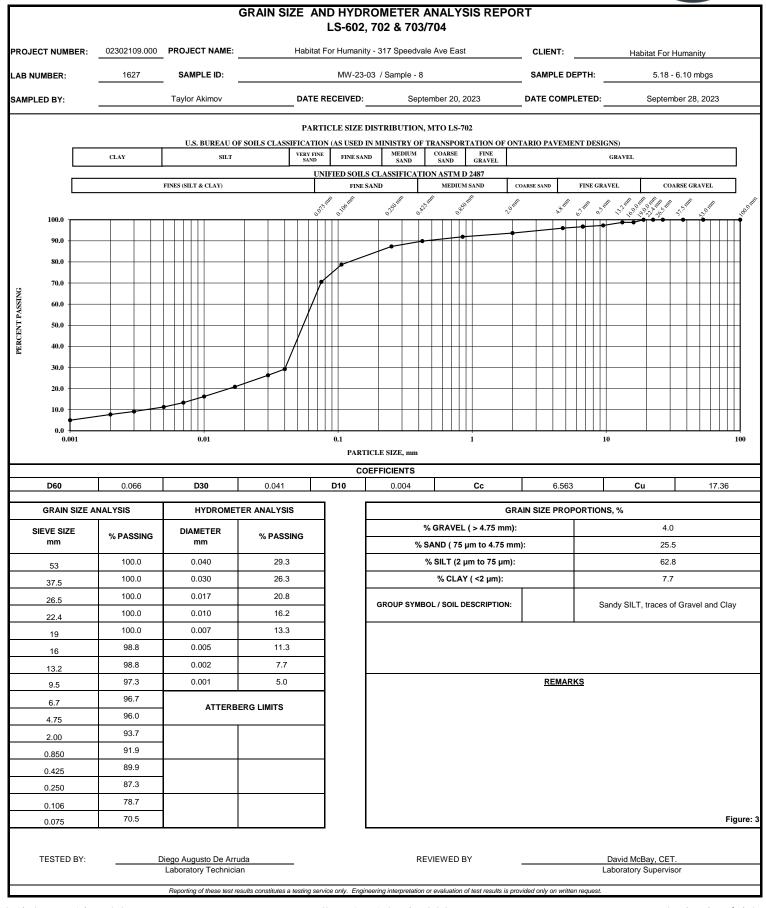




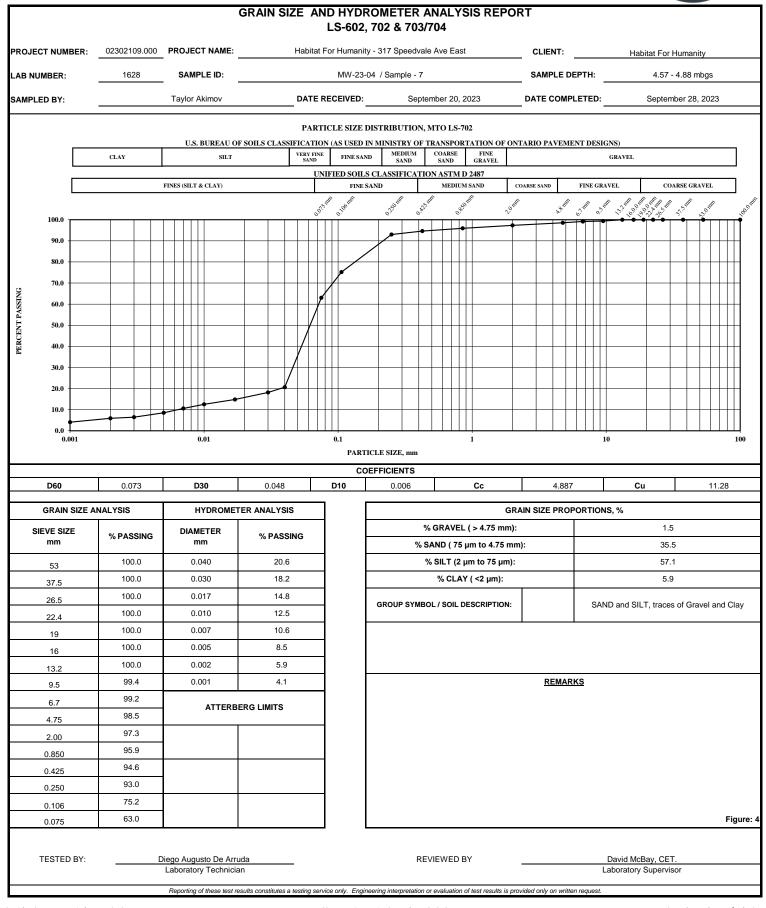




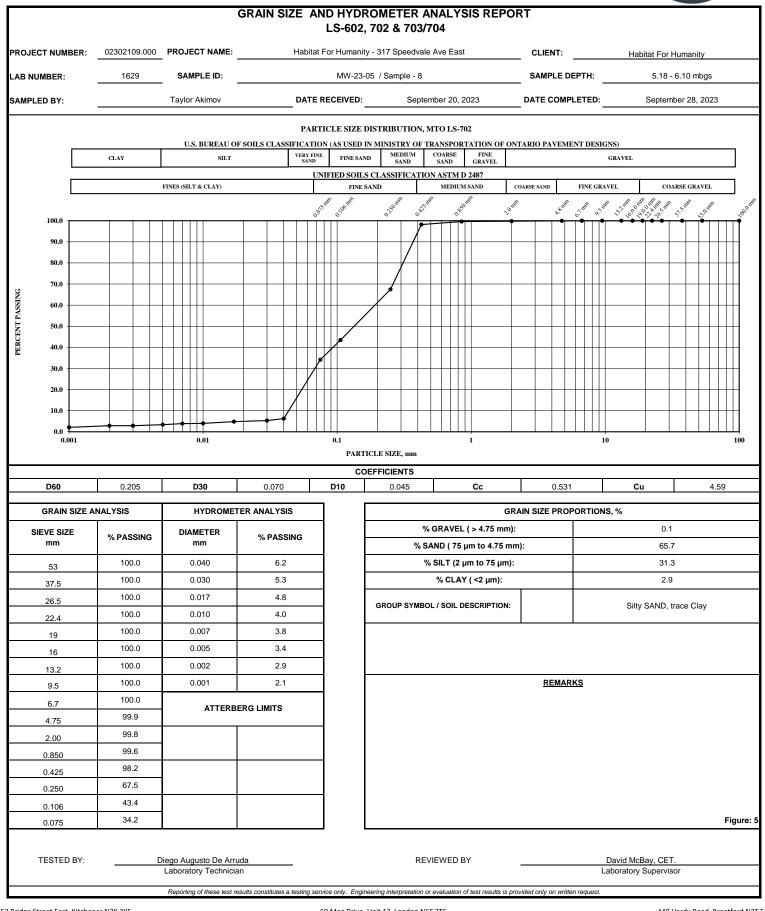












Appendix H EcoLog ERIS Report







DATABASE REPORT

Project Property:

Project No: Report Type: Order No: Requested by: Date Completed: Phase One Environmental Site Assessment - 303, 309 and 317 Speedvale Avenue East, Guelph, Ontario 303, 309 and 317 Speedvale Avenue East Guelph ON N1E 1N3 02302109.000 RSC Report (Urban) 23060200052 EnGlobe Corp. June 2, 2023

Table of Contents

Table of Contents	2
Executive Summary	3
Executive Summary: Report Summary	4
Executive Summary: Site Report Summary - Project Property	
Executive Summary: Site Report Summary - Surrounding Properties	7
Executive Summary: Summary By Data Source	18
Мар	33
Aerial	34
Topographic Map	35
Detail Report	36
Unplottable Summary	129
Unplottable Report	131
Appendix: Database Descriptions	143
Definitions	152

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Executive Summary

Property Information:

Project Property:

Project No:

Order Information:

Order No: Date Requested: Requested by: Report Type: 23060200052 June 2, 2023 EnGlobe Corp. RSC Report (Urban)

East, Guelph, Ontario

02302109.000

Historical/Products:

Aerial Photographs City Directory Search ERIS Xplorer Insurance Products Land Title Search Topographic Map Aerials - National Collection CD - Subject Site plus 10 Adjacent Properties <u>ERIS Xplorer</u> Fire Insurance Maps/Inspection Reports/Site Plans Historical Land Title Search RSC Maps

Phase One Environmental Site Assessment - 303, 309 and 317 Speedvale Avenue

303, 309 and 317 Speedvale Avenue East Guelph ON N1E 1N3

Executive Summary: Report Summary

Database	Name	Searched	Project Property	Boundary to 0.30km	Total
AAGR	Abandoned Aggregate Inventory	Y	0	0	0
AGR	Aggregate Inventory	Y	0	0	0
AMIS	Abandoned Mine Information System	Y	0	0	0
ANDR	Anderson's Waste Disposal Sites	Y	0	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	1	1
CDRY	Dry Cleaning Facilities	Y	0	1	1
CFOT	Commercial Fuel Oil Tanks	Y	0	0	0
CHEM	Chemical Manufacturers and Distributors	Y	0	0	0
СНМ	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	12	12
EASR	Environmental Activity and Sector Registry	Y	0	2	2
EBR	Environmental Registry	Y	0	0	0
ECA	Environmental Compliance Approval	Y	0	0	0
EEM	Environmental Effects Monitoring	Y	0	0	0
EHS	ERIS Historical Searches	Y	0	19	19
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)	Ŷ	0	0	0
FST	Fuel Storage Tank	Ŷ	0	13	13
FSTH	Fuel Storage Tank - Historic	Ŷ	0	4	4
GEN	Ontario Regulation 347 Waste Generators Summary	Ŷ	0	42	42
GHG	Greenhouse Gas Emissions from Large Facilities	Ŷ	0	0	0
HINC	TSSA Historic Incidents	Y	0	1	1

Database	Name	Searched	Project Property	Boundary to 0.30km	Total
IAFT	Indian & Northern Affairs Fuel Tanks	Y	0	0	0
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	Y	0	0	0
NCPL	(NATES) 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	Y	0	0	0
NEBI	Sites National Energy Board Pipeline Incidents	Y	0	0	0
NEBP	National Energy Board Wells	Ŷ	0	0	0
NEES	National Environmental Emergencies System (NEES)	Ŷ	0	0	0
NPCB	National PCB Inventory	Y	0	0	0
NPRI	National Pollutant Release Inventory	Y	0	0	0
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	4	4
PINC	Pipeline Incidents	Y	0	4	4
PRT	Private and Retail Fuel Storage Tanks	Y	0	2	2
PTTW	Permit to Take Water	Y	0	0	0
REC	Ontario Regulation 347 Waste Receivers Summary	Y	0	0	0
RSC	Record of Site Condition	Y	0	0	0
RST	Retail Fuel Storage Tanks	Y	0	1	1
SCT	Scott's Manufacturing Directory	Y	3	1	4
SPL	Ontario Spills	Y	0	13	13
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	13	13
	-	Total:	3	133	136

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Executive Summary: Site Report Summary - Project Property

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev diff (m)	Page Number
<u>1</u>	SCT	D M L CONTROL INC.	317 SPEEDVALE AVE E FLOOR 2 GUELPH ON N1E 1N3	NNE/0.0	0.73	<u>36</u>
<u>1</u>	SCT	DML CONTROL INC.	317 Speedvale Ave E Floor 2 Guelph ON N1E 1N3	NNE/0.0	0.73	<u>36</u>
<u>1</u>	SCT	Hench Control International	317 Speedvale Ave E Floor 2 Guelph ON N1E 1N3	NNE/0.0	0.73	<u>36</u>

Executive Summary: Site Report Summary - Surrounding Properties

Мар Кеу	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
2	WWIS		MANHATTEN COURT Guelph ON	ESE/33.6	0.72	<u>37</u>
			Well ID: 7285393			
<u>3</u>	SPL	Enbridge Gas Inc.	, 310 Speedvale Ave. E Guelph ON	NNW/43.3	1.56	<u>40</u>
<u>4</u>	wwis		324 SPEEDVALE RD Guelph ON	ESE/44.1	0.39	<u>41</u>
			Well ID: 7160549			
<u>5</u>	WWIS		328 SPEEDVALE AVENUE EAST Guelph ON	ESE/46.3	0.39	<u>47</u>
			Well ID: 7178069			
<u>6</u>	EHS		300 Speedvale Ave E Guelph ON N1E 1N2	W/47.7	0.61	<u>50</u>
<u>7</u>	EHS		7, 8, 9, 10 and 11 Manhattan Court Guelph ON	ESE/50.4	0.69	<u>50</u>
<u>7</u>	EHS		7, 9, 10 and 11 Manhattan Court Guelph ON N1E 3W1	ESE/50.4	0.69	<u>50</u>
<u>7</u>	EHS		7, 9, 10 and 11 Manhattan Court Guelph ON N1E 3W1	ESE/50.4	0.69	<u>51</u>
<u>7</u>	EHS		7, 9, 10 and 11 Manhattan Court Guelph ON N1E 3W1	ESE/50.4	0.69	<u>51</u>
<u>7</u>	EHS		7, 9, 10 and 11 Manhattan Court Guelph ON N1E 3W1	ESE/50.4	0.69	<u>51</u>
<u>8</u>	WWIS		328 SPEEDVALE AVENUE EAST Guelph ON	E/56.5	0.69	<u>51</u>
			Well ID: 7178067			
<u>9</u>	WWIS		328 SPEEDVALE AVENUE EAST Guelph ON	ESE/69.2	0.69	<u>54</u>

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
			Well ID: 7178068			
<u>10</u>	WWIS		323 SPEEDALE AVE E GUELPH ON	NE/93.7	1.39	<u>58</u>
			Well ID: 7200873			
<u>11</u>	WWIS		323 SPEEDVALE AVE E Guelph ON	NE/96.6	1.39	<u>60</u>
			Well ID: 7278592			
<u>12</u>	EHS		320 Speedvale Ave E Guelph ON N1E 1N2	NNE/103.7	0.58	<u>63</u>
<u>12</u>	WWIS		ON	NNE/103.7	0.58	<u>63</u>
			Well ID: 7201213			
<u>13</u>	WWIS		323 SPEEDUALE GUELPH ON	NE/104.3	1.39	<u>64</u>
			Well ID: 7200872			
<u>14</u>	WWIS		323 SPEEDVALE AVE E Guelph ON	NE/105.8	1.39	<u>67</u>
			Well ID: 7278593			
<u>15</u>	PRT	BEAVER FUELS MANAGEMENT LIMITED ATTENTION: MIRIAM	324 SPEEDVALE AV E GUELPH ON N1E 1N2	NNE/115.0	0.58	<u>69</u>
<u>15</u>	RST	BEAVER FUELS	324 SPEEDVALE AVE E GUELPH ON N1E 1N2	NNE/115.0	0.58	<u>69</u>
45	COTU	1348083 ONTARIO LTD O/A	324 SPEEDVALE AV E	NNE/115.0	0.58	69
<u>15</u>	FSTH	GAS STN	GUELPH ON N1E 1N2	NNL/113.0	0.50	<u></u>
15	FSTH	1348083 ONTARIO LTD O/A	324 SPEEDVALE AV E	NNE/115.0	0.58	70
<u></u>		GAS STN	GUELPH ON N1E 1N2			_
<u>15</u>	DTNK	1348083 ONTARIO LTD O/A	324 SPEEDVALE AV E	NNE/115.0	0.58	<u>71</u>
		GAS STN	GUELPH ON			
<u>15</u>	GEN	Shell Canada Products	324 Speedvale Ave E	NNE/115.0	0.58	<u>71</u>
			Guelph ON N1E 1N2			
15	GEN	Shell Canada Products	324 Speedvale Ave E	NNE/115.0	0.58	72
_			Guelph ON N1E 1N2			_

Order No: 23060200052

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
<u>15</u>	DTNK	1348083 ONTARIO LTD O/A GAS STN	324 SPEEDVALE AV E GUELPH N1E 1N2 ON CA ON	NNE/115.0	0.58	<u>72</u>
<u>15</u>	DTNK	1348083 ONTARIO LTD O/A GAS STN	324 SPEEDVALE AV E GUELPH N1E 1N2 ON CA ON	NNE/115.0	0.58	<u>72</u>
<u>15</u>	GEN	Shell Canada Products	324 Speedvale Ave E Guelph ON N1E 1N2	NNE/115.0	0.58	<u>73</u>
<u>15</u>	GEN	Shell Canada Products	324 Speedvale Ave E Guelph ON	NNE/115.0	0.58	<u>73</u>
<u>15</u>	DTNK	1348083 ONTARIO LTD O/A GAS STN	324 SPEEDVALE AV E GUELPH N1E 1N2 ON CA ON	NNE/115.0	0.58	<u>74</u>
<u>15</u>	DTNK	1348083 ONTARIO LTD O/A GAS STN	324 SPEEDVALE AV E GUELPH N1E 1N2 ON CA ON	NNE/115.0	0.58	<u>74</u>
<u>15</u>	DTNK	1348083 ONTARIO LTD O/A GAS STN	324 SPEEDVALE AV E GUELPH N1E 1N2 ON CA ON	NNE/115.0	0.58	<u>75</u>
<u>15</u>	DTNK	1348083 ONTARIO LTD O/A GAS STN	324 SPEEDVALE AV E GUELPH N1E 1N2 ON CA ON	NNE/115.0	0.58	<u>76</u>
<u>15</u>	DTNK	1348083 ONTARIO LTD O/A GAS STN	324 SPEEDVALE AV E GUELPH N1E 1N2 ON CA ON	NNE/115.0	0.58	<u>76</u>
<u>15</u>	GEN	Shell Canada Products	324 Speedvale Ave E Guelph ON N1E 1N2	NNE/115.0	0.58	<u>77</u>
<u>15</u>	GEN	Shell Canada Products	324 Speedvale Ave E Guelph ON N1E 1N2	NNE/115.0	0.58	<u>77</u>
<u>15</u>	GEN	Shell Canada Products	324 Speedvale Ave E Guelph ON N1E 1N2	NNE/115.0	0.58	<u>78</u>

Мар Кеу	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
<u>15</u>	FST	1348083 ONTARIO LTD O/A GAS STN	324 SPEEDVALE AV E GUELPH N1E 1N2 ON CA ON	NNE/115.0	0.58	<u>78</u>
<u>15</u>	FST	1348083 ONTARIO LTD O/A GAS STN	324 SPEEDVALE AV E GUELPH N1E 1N2 ON CA ON	NNE/115.0	0.58	<u>79</u>
<u>15</u>	FST	1348083 ONTARIO LTD O/A GAS STN	324 SPEEDVALE AV E GUELPH N1E 1N2 ON CA ON	NNE/115.0	0.58	<u>79</u>
<u>15</u>	FST	1348083 ONTARIO LTD O/A GAS STN	324 SPEEDVALE AV E GUELPH N1E 1N2 ON CA ON	NNE/115.0	0.58	<u>80</u>
<u>15</u>	FST	1348083 ONTARIO LTD O/A GAS STN	324 SPEEDVALE AV E GUELPH N1E 1N2 ON CA ON	NNE/115.0	0.58	<u>80</u>
<u>15</u>	FST	1348083 ONTARIO LTD O/A GAS STN	324 SPEEDVALE AV E GUELPH N1E 1N2 ON CA ON	NNE/115.0	0.58	<u>81</u>
<u>15</u>	FST	1348083 ONTARIO LTD O/A GAS STN	324 SPEEDVALE AV E GUELPH N1E 1N2 ON CA ON	NNE/115.0	0.58	<u>81</u>
<u>16</u>	SPL	BEAVER GAS STATION	PEEDVALE AVE EAST/STEVENSON ST. SERVICE STATION GUELPH CITY ON	NE/141.7	2.00	<u>82</u>
<u>16</u>	PRT	SOUTHLAND CANADA 2830 ATTN MARYANN GRAHOVAC	SPEEDVALE AT STEVENSON GUELPH ON	NE/141.7	2.00	<u>82</u>
<u>16</u>	GEN	GUELPH HYDRO	SPEEDVALE AVE. EAST AT STEVENSON ST. N. C/O 104 DAWSON ROAD GUELPH ON N1H 1A7	NE/141.7	2.00	<u>83</u>
<u>16</u>	GEN	GUELPH HYDRO 18-349	SPEEDVALE AVE. EAST AT STEVENSON ST. N. C/O 104 DAWSON ROAD GUELPH ON N1H 1A7	NE/141.7	2.00	<u>83</u>
<u>16</u>	GEN	GUELPH HYDRO	SPEEDVALE AVENUE EAST AT STEVENSON STREET NORTH GUELPH ON	NE/141.7	2.00	<u>83</u>

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
<u>16</u>	EHS		Speedvale Ave E & Stevenson St N Guelph ON	NE/141.7	2.00	<u>84</u>
<u>17</u>	SPL		329 Speedvale Ave E Guelph ON N1E 1N6	NE/159.8	2.73	<u>84</u>
<u>18</u>	EHS		7-Eleven 328 Speedvale Ave East Guelph ON N1E 1N5	NNE/184.7	2.39	<u>85</u>
<u>18</u>	EHS		7-Eleven 328 Speedvale Ave East Guelph ON N1E 1N5	NNE/184.7	2.39	<u>85</u>
<u>18</u>	EHS		7-Eleven 328 Speedvale Ave East Guelph ON N1E 1N5	NNE/184.7	2.39	<u>85</u>
<u>18</u>	EHS		7-Eleven 328 Speedvale Ave East Guelph ON N1E 1N5	NNE/184.7	2.39	<u>85</u>
<u>19</u>	FSTH	7-ELEVEN CANADA INC - NATIONAL GAS DEPT	328 SPEEDVALE AV E AT STEVENSON GUELPH ON N1E 1N5	NNE/188.1	2.69	<u>85</u>
<u>19</u>	FSTH	7-ELEVEN CANADA INC - NATIONAL GAS DEPT	328 SPEEDVALE AV E AT STEVENSON GUELPH ON N1E 1N5	NNE/188.1	2.69	<u>86</u>
<u>19</u>	SPL	The Corporation of the City of Guelph	328 Speedville Ave East Guelph ON	NNE/188.1	2.69	<u>87</u>
<u>19</u>	DTNK	7-ELEVEN CANADA INC - NATIONAL GAS DEPT	328 SPEEDVALE AV E AT STEVENSON GUELPH ON	NNE/188.1	2.69	<u>87</u>
<u>19</u>	EHS		328 Speedvale Avenue East Guelph ON	NNE/188.1	2.69	<u>88</u>
<u>19</u>	FST	7-ELEVEN CANADA INC - NATIONAL GAS DEPT	328 SPEEDVALE AV E GUELPH N1E 1N5 ON CA ON	NNE/188.1	2.69	<u>88</u>
<u>19</u>	FST	7-ELEVEN CANADA INC - NATIONAL GAS DEPT	328 SPEEDVALE AV E GUELPH N1E 1N5 ON CA ON	NNE/188.1	2.69	<u>89</u>

Мар Кеу	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
<u>19</u>	FST	7-ELEVEN CANADA INC - NATIONAL GAS DEPT	328 SPEEDVALE AV E GUELPH N1E 1N5 ON CA ON	NNE/188.1	2.69	<u>89</u>
<u>19</u>	FST	7-ELEVEN CANADA INC - NATIONAL GAS DEPT	328 SPEEDVALE AV E GUELPH N1E 1N5 ON CA ON	NNE/188.1	2.69	<u>90</u>
<u>19</u>	GEN	7-Eleven Canada Inc.	328 Speedvale Ave East Guelph ON	NNE/188.1	2.69	<u>90</u>
<u>19</u>	EHS		328 Speedvale Ave E Guelph ON N1E0J4	NNE/188.1	2.69	<u>90</u>
<u>19</u>	GEN	7-Eleven Canada Inc.	328 Speedvale Ave East Guelph ON	NNE/188.1	2.69	<u>91</u>
<u>19</u>	FST	7-ELEVEN CANADA INC - NATIONAL GAS DEPT	328 SPEEDVALE AV E GUELPH N1E 1N5 ON CA ON	NNE/188.1	2.69	<u>91</u>
<u>19</u>	FST	7-ELEVEN CANADA INC - NATIONAL GAS DEPT	328 SPEEDVALE AV E GUELPH N1E 1N5 ON CA ON	NNE/188.1	2.69	<u>91</u>
<u>19</u>	GEN	7-Eleven Canada Inc.	328 Speedvale Ave East Guelph ON N1E 1N5	NNE/188.1	2.69	<u>92</u>
<u>19</u>	GEN	7-Eleven Canada Inc.	328 Speedvale Ave East Guelph ON N1E 1N5	NNE/188.1	2.69	<u>92</u>
<u>19</u>	GEN	7-Eleven Canada Inc.	328 Speedvale Ave East Guelph ON N1E 1N5	NNE/188.1	2.69	<u>93</u>
<u>19</u>	GEN	7-Eleven Canada Inc.	328 Speedvale Ave East Guelph ON N1E 1N5	NNE/188.1	2.69	<u>93</u>
<u>19</u>	GEN	Cornell Animal Hospital	328 Speedvale Ave. E. Guelph ON N1E 1N5	NNE/188.1	2.69	<u>93</u>

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
<u>19</u>	GEN	7-Eleven Canada Inc.	328 Speedvale Ave East Guelph ON N1E 1N5	NNE/188.1	2.69	<u>94</u>
<u>19</u>	EASR	328 SPEEDVALE COMMERCIAL CENTRE INC.	328 Speedvale AVE E Guelph ON N1E 1N5	NNE/188.1	2.69	<u>94</u>
<u>19</u>	SPL		328 Speedvale Ave East Guelph ON	NNE/188.1	2.69	<u>94</u>
<u>19</u>	DTNK	7-ELEVEN CANADA INC - NATIONAL GAS DEPT	328 SPEEDVALE AV E GUELPH N1E 1N5 ON CA ON	NNE/188.1	2.69	<u>95</u>
<u>19</u>	DTNK	7-ELEVEN CANADA INC - NATIONAL GAS DEPT	328 SPEEDVALE AV E GUELPH N1E 1N5 ON CA ON	NNE/188.1	2.69	<u>96</u>
<u>19</u>	DTNK		328 SPEEDVALE AV E GUELPH ON N1E 1N5	NNE/188.1	2.69	<u>96</u>
<u>19</u>	GEN	Cornell Animal Hospital	328 Speedvale Ave. E. Guelph ON N1E 1N5	NNE/188.1	2.69	<u>97</u>
<u>19</u>	GEN	7-Eleven Canada Inc.	328 Speedvale Ave East Guelph ON N1E 1N5	NNE/188.1	2.69	<u>97</u>
<u>19</u>	GEN	7-Eleven Canada Inc.	328 Speedvale Ave East Guelph ON N1E 1N5	NNE/188.1	2.69	<u>98</u>
<u>19</u>	GEN	Cornell Animal Hospital	328 Speedvale Ave. E. Guelph ON N1E 1N5	NNE/188.1	2.69	<u>98</u>
<u>19</u>	EASR	Parsons Inc.	328 Speedvale AVE E Guelph ON N1E 1N5	NNE/188.1	2.69	<u>98</u>
<u>20</u>	SPL		Intersection of Gladstone and Speedvale Guelph ON	WSW/194.7	-2.31	<u>99</u>
<u>21</u>	PINC	PIPELINE HIT - 1 1/4"	261 SPEEDVALE AVE E,,GUELPH,ON, N1E 1M8,CA ON	SW/201.9	-4.00	<u>99</u>

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
<u>21</u>	PINC	ELMRIDGE DR 145 APARTMENT BUILDING	261 SPEEDVALE AVE E,,GUELPH,ON, N1E 1M8,CA ON	SW/201.9	-4.00	<u>100</u>
<u>22</u>	GEN	Upper Grand District School Board	Edward Johnson Public School 397 Stevenson Street North Guelph ON N1E 5C1	ENE/230.6	3.71	<u>100</u>
<u>23</u>	WWIS		328 SPEEDVALE AVE EAST Guelph ON <i>Well ID:</i> 7357835	NNE/244.3	3.77	<u>101</u>
<u>23</u>	WWIS		328 SPEEDVALE AVE EAST Guelph ON <i>Well ID:</i> 7357838	NNE/244.3	3.77	<u>104</u>
<u>24</u>	GEN	1865088 Ontario Ltd	328-386 Speedvale Ave East Guelph ON	NE/245.4	3.73	<u>107</u>
<u>24</u>	GEN	1865088 Ontario Ltd	328-386 Speedvale Ave East Guelph ON N1E 6A7	NE/245.4	3.73	<u>107</u>
<u>24</u>	GEN	1865088 Ontario Ltd	328-386 Speedvale Ave East Guelph ON N1E 6A7	NE/245.4	3.73	<u>108</u>
<u>24</u>	GEN	1865088 Ontario Ltd	328-386 Speedvale Ave East Guelph ON N1E 6A7	NE/245.4	3.73	<u>108</u>
<u>24</u>	GEN	1865088 Ontario Ltd	328-386 Speedvale Ave East Guelph ON N1E 6A7	NE/245.4	3.73	<u>108</u>
<u>25</u>	wwis		328 SPEEDVALE AVE E Guelph ON	NNE/249.4	3.00	<u>109</u>
<u>26</u>	SPL	Union Gas Limited	<i>Well ID:</i> 7277237 7 Lilac Place Guelph ON	NNW/253.4	4.69	<u>113</u>
<u>26</u>	PINC	PIPELINE HIT - 1/2"	7 LILAC PLACE,,GUELPH,ON,N1E 1K2, CA ON	NNW/253.4	4.69	<u>114</u>

Мар Кеу	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
<u>27</u>	EHS		328-386 Speedvale Avenue Guelph ON N1E 1N6	NNE/276.7	3.64	<u>114</u>
<u>27</u>	EHS		328-386 Speedvale Avenue Guelph ON N1E 1N6	NNE/276.7	3.64	<u>114</u>
<u>27</u>	EHS		328-386 Speedvale Avenue Guelph ON N1E 1N6	NNE/276.7	3.64	<u>114</u>
<u>27</u>	EHS		328-386 Speedvale Avenue Guelph ON N1E 1N6	NNE/276.7	3.64	<u>115</u>
<u>28</u>	SPL		330 Speedvale Ave. E. Guelph ON N1E 1N5	N/280.2	3.69	<u>115</u>
<u>28</u>	PES	BYRON FOOD MARKET	330 SPEEDVALE AVENUE EAST GUELPH ON N1E1N5	N/280.2	3.69	<u>116</u>
<u>28</u>	SPL		330 Speedvale Ave East Guelph ON	N/280.2	3.69	<u>116</u>
<u>29</u>	SPL	Union Gas Ltd	343 Speedvale Ave East Guelph ON	NE/283.2	4.69	<u>117</u>
<u>29</u>	PINC	2" Pipeline Hit	343 SPEEDVALE AVENUE EAST,, GUELPH,ON,N1E 1N6,CA ON	NE/283.2	4.69	<u>117</u>
<u>30</u>	CA	TDL GROUP LTD.	328-378 SPEEDVALE AVENUE GUELPH CITY ON	NE/294.9	4.61	<u>118</u>
<u>30</u>	EHS		328-386 Speedvale Ave East Guelph ON N1E 1N5	NE/294.9	4.61	<u>118</u>
<u>30</u>	PES	THE BARGAIN! SHOP HOLDINGS INC. (STORE#52961)	328 - 378 SPEEDVALE AVE GUELPH ON N1E1N5	NE/294.9	4.61	<u>118</u>
<u>30</u>	GEN	HREIT Corporation 27	328-378 Speedvale Ave E Guelph ON	NE/294.9	4.61	<u>119</u>

Мар Кеу	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
<u>30</u>	GEN	Huntingdon-Reit	328-378 Speedvale Drive Guelph ON N1E 1N5	NE/294.9	4.61	<u>119</u>
<u>30</u>	PES	THE BARGAIN! SHOP HOLDINGS INC. (STORE#52961)	328 - 378 SPEEDVALE AVE GUELPH ON N1E 1N5	NE/294.9	4.61	<u>119</u>
<u>30</u>	PES	THE BARGAIN! SHOP HOLDINGS INC. (STORE#52961)	328 - 378 SPEEDVALE AVE GUELPH ON N1E1N5	NE/294.9	4.61	<u>120</u>
<u>30</u>	GEN	328 Speedvale Commercial Centre Inc.	328-378 Speedvale Ave. East Guelph ON N1E 1N5	NE/294.9	4.61	<u>120</u>
<u>30</u>	SPL	Unknown <unofficial></unofficial>	378 Speedvale Avenue East, Guelph Guelph ON	NE/294.9	4.61	<u>121</u>
<u>30</u>	GEN	328 Speedvale Commercial Centre Inc.	328-378 Speedvale Ave. East Guelph ON N1E 1N5	NE/294.9	4.61	<u>121</u>
<u>30</u>	GEN	328 Speedvale Commercial Centre Inc.	328-378 Speedvale Ave. East Guelph ON N1E 1N5	NE/294.9	4.61	<u>122</u>
<u>31</u>	HINC		102 EMMA STREET GUELPH ON N1E 1T8	SSE/295.9	-3.31	<u>122</u>
<u>32</u>	GEN	ROYAL CLEANERS	358 SPEEDVALE AVENUE EAST GUELPH ON N1E 1N5	NNE/297.4	4.69	<u>122</u>
<u>32</u>	GEN	ROYAL CLEANERS 33-163	358 SPEEDVALE AVENUE EAST GUELPH ON N1E 1N5	NNE/297.4	4.69	<u>123</u>
<u>32</u>	GEN	ROYAL CLEANERS	358 SPEEDVALE AVENUE EAST GUELPH ON N1E 1N5	NNE/297.4	4.69	<u>123</u>
<u>32</u>	GEN	ROBERT LANE INC.	358 SPEEDVALE AVENUE EAST GUELPH ON N1E 1N5	NNE/297.4	4.69	<u>123</u>

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
<u>32</u>	GEN	ROBERT LANE INC.	358 SPEEDVALE AVENUE EAST GUELPH ON N1E 1N5	NNE/297.4	4.69	<u>124</u>
<u>32</u>	GEN	ROBERT LANE INC.	358 SPEEDVALE AVENUE EAST GUELPH ON N1E 1N5	NNE/297.4	4.69	<u>124</u>
<u>32</u>	CDRY	Royal Cleaners	358 Speedvale Ave E Guelph ON N1E1N5	NNE/297.4	4.69	<u>125</u>
<u>33</u>	SCT	Candies of Merritt Ltd.	344 Speedvale Ave E Guelph ON N1E 1N5	N/297.8	3.69	<u>125</u>
<u>33</u>	GEN	PHARMA PLUS DRUGS LTD	334 SPEEDVALE AVENUE EAST GUELPH ON N1E 1N5	N/297.8	3.69	<u>126</u>
<u>33</u>	GEN	PHARMA PLUS DRUGS LTD. 31-756	334 SPEEDVALE AVE. E. C/O 5935 AIRPORT ROAD #500 MISSISSAUGA ON L4V 1W5	N/297.8	3.69	<u>126</u>
<u>33</u>	GEN	PHARMA PLUS DRUGS LTD (OUT OF BUSINESS)	334 SPEEDVALE AVENUE EAST GUELPH ON N1E 1N5	N/297.8	3.69	<u>126</u>
<u>34</u>	SPL	UNION GAS LTD.	231 SPEEDVALE AVE. BYPRO MARKETING (IN FRONT OF) GUELPH CITY ON	SW/298.1	-3.31	<u>127</u>
<u>34</u>	SPL	Goderich-Exeter Railway Company Limited	behind Bipro plant on 231Speedvale Ave. Guelph ON	SW/298.1	-3.31	<u>127</u>

Executive Summary: Summary By Data Source

<u>CA</u> - Certificates of Approval

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

Site	Address	<u>Distance (m)</u>	<u>Map Key</u>
TDL GROUP LTD.	328-378 SPEEDVALE AVENUE GUELPH CITY ON	294.9	<u>30</u>

CDRY - Dry Cleaning Facilities

A search of the CDRY database, dated Jan 2004-Dec 2021 has found that there are 1 CDRY site(s) within approximately 0.30 kilometers of the project property.

Site	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
Royal Cleaners	358 Speedvale Ave E Guelph ON N1E1N5	297.4	<u>32</u>

DTNK - Delisted Fuel Tanks

A search of the DTNK database, dated Feb 28, 2022 has found that there are 12 DTNK site(s) within approximately 0.30 kilometers of the project property.

Site	Address	<u>Distance (m)</u>	<u>Map Key</u>
1348083 ONTARIO LTD O/A GAS STN	324 SPEEDVALE AV E GUELPH N1E 1N2 ON CA ON	115.0	<u>15</u>
1348083 ONTARIO LTD O/A GAS STN	324 SPEEDVALE AV E GUELPH N1E 1N2 ON CA ON	115.0	<u>15</u>
1348083 ONTARIO LTD O/A GAS STN	324 SPEEDVALE AV E GUELPH N1E 1N2 ON CA ON	115.0	<u>15</u>
1348083 ONTARIO LTD O/A GAS STN	324 SPEEDVALE AV E GUELPH N1E 1N2 ON CA ON	115.0	<u>15</u>

Site	Address	<u>Distance (m)</u>	<u>Map Key</u>
1348083 ONTARIO LTD O/A GAS STN	324 SPEEDVALE AV E GUELPH N1E 1N2 ON CA ON	115.0	<u>15</u>
1348083 ONTARIO LTD O/A GAS STN	324 SPEEDVALE AV E GUELPH N1E 1N2 ON CA ON	115.0	<u>15</u>
1348083 ONTARIO LTD O/A GAS STN	324 SPEEDVALE AV E GUELPH N1E 1N2 ON CA ON	115.0	<u>15</u>
1348083 ONTARIO LTD O/A GAS STN	324 SPEEDVALE AV E GUELPH ON	115.0	<u>15</u>
7-ELEVEN CANADA INC - NATIONAL GAS DEPT	328 SPEEDVALE AV E AT STEVENSON GUELPH ON	188.1	<u>19</u>
	328 SPEEDVALE AV E GUELPH ON N1E 1N5	188.1	<u>19</u>
7-ELEVEN CANADA INC - NATIONAL GAS DEPT	328 SPEEDVALE AV E GUELPH N1E 1N5 ON CA ON	188.1	<u>19</u>
7-ELEVEN CANADA INC - NATIONAL GAS DEPT	328 SPEEDVALE AV E GUELPH N1E 1N5 ON CA ON	188.1	<u>19</u>

EASR - Environmental Activity and Sector Registry

A search of the EASR database, dated Oct 2011- Apr 30, 2023 has found that there are 2 EASR site(s) within approximately 0.30 kilometers of the project property.

<u>Site</u>	Address	<u>Distance (m)</u>	<u>Map Key</u>
328 SPEEDVALE COMMERCIAL CENTRE INC.	328 Speedvale AVE E Guelph ON N1E 1N5	188.1	<u>19</u>

<u>Site</u>

Address 328 Speedvale AVE E Guelph ON N1E 1N5

EHS - ERIS Historical Searches

A search of the EHS database, dated 1999-Mar 31, 2023 has found that there are 19 EHS site(s) within approximately 0.30 kilometers of the project property.

Address 300 Speedvale Ave E Guelph ON N1E 1N2	<u>Distance (m)</u> 47.7	<u>Map Key</u> <u>6</u>
7, 9, 10 and 11 Manhattan Court Guelph ON N1E 3W1	50.4	Ž
7, 9, 10 and 11 Manhattan Court Guelph ON N1E 3W1	50.4	<u>7</u>
7, 9, 10 and 11 Manhattan Court Guelph ON N1E 3W1	50.4	<u>7</u>
7, 9, 10 and 11 Manhattan Court Guelph ON N1E 3W1	50.4	<u>7</u>
7, 8, 9, 10 and 11 Manhattan Court Guelph ON	50.4	Ţ
320 Speedvale Ave E Guelph ON N1E 1N2	103.7	<u>12</u>
Speedvale Ave E & Stevenson St N Guelph ON	141.7	<u>16</u>
7-Eleven 328 Speedvale Ave East Guelph ON N1E 1N5	184.7	<u>18</u>

<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
7-Eleven 328 Speedvale Ave East Guelph ON N1E 1N5	184.7	<u>18</u>
7-Eleven 328 Speedvale Ave East Guelph ON N1E 1N5	184.7	<u>18</u>
7-Eleven 328 Speedvale Ave East Guelph ON N1E 1N5	184.7	<u>18</u>
328 Speedvale Avenue East Guelph ON	188.1	<u>19</u>
328 Speedvale Ave E Guelph ON N1E0J4	188.1	<u>19</u>
328-386 Speedvale Avenue Guelph ON N1E 1N6	276.7	<u>27</u>
328-386 Speedvale Avenue Guelph ON N1E 1N6	276.7	<u>27</u>
328-386 Speedvale Avenue Guelph ON N1E 1N6	276.7	<u>27</u>
328-386 Speedvale Avenue Guelph ON N1E 1N6	276.7	<u>27</u>
328-386 Speedvale Ave East Guelph ON N1E 1N5	294.9	<u>30</u>

FST - Fuel Storage Tank

A search of the FST database, dated Feb 28, 2022 has found that there are 13 FST site(s) within approximately 0.30 kilometers of the project property.

<u>Site</u> 1348083 ONTARIO LTD O/A GAS STN	<u>Address</u> 324 SPEEDVALE AV E GUELPH N1E 1N2 ON CA ON	<u>Distance (m)</u> 115.0	<u>Map Key</u> <u>15</u>
1348083 ONTARIO LTD O/A GAS STN	324 SPEEDVALE AV E GUELPH N1E 1N2 ON CA ON	115.0	<u>15</u>
1348083 ONTARIO LTD O/A GAS STN	324 SPEEDVALE AV E GUELPH N1E 1N2 ON CA ON	115.0	<u>15</u>
1348083 ONTARIO LTD O/A GAS STN	324 SPEEDVALE AV E GUELPH N1E 1N2 ON CA ON	115.0	<u>15</u>
1348083 ONTARIO LTD O/A GAS STN	324 SPEEDVALE AV E GUELPH N1E 1N2 ON CA ON	115.0	<u>15</u>
1348083 ONTARIO LTD O/A GAS STN	324 SPEEDVALE AV E GUELPH N1E 1N2 ON CA ON	115.0	<u>15</u>
1348083 ONTARIO LTD O/A GAS STN	324 SPEEDVALE AV E GUELPH N1E 1N2 ON CA ON	115.0	<u>15</u>
7-ELEVEN CANADA INC - NATIONAL GAS DEPT	328 SPEEDVALE AV E GUELPH N1E 1N5 ON CA ON	188.1	<u>19</u>
7-ELEVEN CANADA INC - NATIONAL GAS DEPT	328 SPEEDVALE AV E GUELPH N1E 1N5 ON CA ON	188.1	<u>19</u>
7-ELEVEN CANADA INC - NATIONAL GAS DEPT	328 SPEEDVALE AV E GUELPH N1E 1N5 ON CA ON	188.1	<u>19</u>
7-ELEVEN CANADA INC - NATIONAL GAS DEPT	328 SPEEDVALE AV E GUELPH N1E 1N5 ON CA ON	188.1	<u>19</u>

22

<u>Site</u> 7-ELEVEN CANADA INC - NATIONAL GAS DEPT	Address 328 SPEEDVALE AV E GUELPH N1E 1N5 ON CA ON	<u>Distance (m)</u> 188.1	<u>Map Key</u> <u>19</u>
7-ELEVEN CANADA INC - NATIONAL GAS DEPT	328 SPEEDVALE AV E GUELPH N1E 1N5 ON CA ON	188.1	<u>19</u>

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 0.30 kilometers of the project property.

Site	Address	Distance (m)	<u>Map Key</u>
1348083 ONTARIO LTD O/A GAS STN	324 SPEEDVALE AV E GUELPH ON N1E 1N2	115.0	<u>15</u>
1348083 ONTARIO LTD O/A GAS STN	324 SPEEDVALE AV E GUELPH ON N1E 1N2	115.0	<u>15</u>
7-ELEVEN CANADA INC - NATIONAL GAS DEPT	328 SPEEDVALE AV E AT STEVENSON GUELPH ON N1E 1N5	188.1	<u>19</u>
7-ELEVEN CANADA INC - NATIONAL GAS DEPT	328 SPEEDVALE AV E AT STEVENSON GUELPH ON N1E 1N5	188.1	<u>19</u>

<u>GEN</u> - Ontario Regulation 347 Waste Generators Summary

A search of the GEN database, dated 1986-Oct 31, 2022 has found that there are 42 GEN site(s) within approximately 0.30 kilometers of the project property.

Site	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
Shell Canada Products	324 Speedvale Ave E Guelph ON N1E 1N2	115.0	<u>15</u>
Shell Canada Products	324 Speedvale Ave E Guelph ON N1E 1N2	115.0	<u>15</u>

<u>Site</u> Shell Canada Products	Address 324 Speedvale Ave E Guelph ON N1E 1N2	<u>Distance (m)</u> 115.0	<u>Map Key</u> <u>15</u>
Shell Canada Products	324 Speedvale Ave E Guelph ON N1E 1N2	115.0	<u>15</u>
Shell Canada Products	324 Speedvale Ave E Guelph ON N1E 1N2	115.0	<u>15</u>
Shell Canada Products	324 Speedvale Ave E Guelph ON N1E 1N2	115.0	<u>15</u>
Shell Canada Products	324 Speedvale Ave E Guelph ON	115.0	<u>15</u>
GUELPH HYDRO	SPEEDVALE AVE. EAST AT STEVENSON ST. N. C/O 104 DAWSON ROAD GUELPH ON N1H 1A7	141.7	<u>16</u>
GUELPH HYDRO 18-349	SPEEDVALE AVE. EAST AT STEVENSON ST. N. C/O 104 DAWSON ROAD GUELPH ON N1H 1A7	141.7	<u>16</u>
GUELPH HYDRO	SPEEDVALE AVENUE EAST AT STEVENSON STREET NORTH GUELPH ON	141.7	<u>16</u>
7-Eleven Canada Inc.	328 Speedvale Ave East Guelph ON N1E 1N5	188.1	<u>19</u>
7-Eleven Canada Inc.	328 Speedvale Ave East Guelph ON N1E 1N5	188.1	<u>19</u>
7-Eleven Canada Inc.	328 Speedvale Ave East Guelph ON N1E 1N5	188.1	<u>19</u>
7-Eleven Canada Inc.	328 Speedvale Ave East Guelph ON N1E 1N5	188.1	<u>19</u>

Site	Address	<u>Distance (m)</u>	<u>Map Key</u>
Cornell Animal Hospital	328 Speedvale Ave. E. Guelph ON N1E 1N5	188.1	<u>19</u>
7-Eleven Canada Inc.	328 Speedvale Ave East Guelph ON N1E 1N5	188.1	<u>19</u>
Cornell Animal Hospital	328 Speedvale Ave. E. Guelph ON N1E 1N5	188.1	<u>19</u>
7-Eleven Canada Inc.	328 Speedvale Ave East Guelph ON N1E 1N5	188.1	<u>19</u>
7-Eleven Canada Inc.	328 Speedvale Ave East Guelph ON N1E 1N5	188.1	<u>19</u>
Cornell Animal Hospital	328 Speedvale Ave. E. Guelph ON N1E 1N5	188.1	<u>19</u>
7-Eleven Canada Inc.	328 Speedvale Ave East Guelph ON	188.1	<u>19</u>
7-Eleven Canada Inc.	328 Speedvale Ave East Guelph ON	188.1	<u>19</u>
Upper Grand District School Board	Edward Johnson Public School 397 Stevenson Street North Guelph ON N1E 5C1	230.6	<u>22</u>
1865088 Ontario Ltd	328-386 Speedvale Ave East Guelph ON	245.4	<u>24</u>
1865088 Ontario Ltd	328-386 Speedvale Ave East Guelph ON N1E 6A7	245.4	<u>24</u>

<u>Site</u> 1865088 Ontario Ltd	<u>Address</u> 328-386 Speedvale Ave East Guelph ON N1E 6A7	<u>Distance (m)</u> 245.4	<u>Map Key</u> <u>24</u>
1865088 Ontario Ltd	328-386 Speedvale Ave East Guelph ON N1E 6A7	245.4	<u>24</u>
1865088 Ontario Ltd	328-386 Speedvale Ave East Guelph ON N1E 6A7	245.4	<u>24</u>
HREIT Corporation 27	328-378 Speedvale Ave E Guelph ON	294.9	<u>30</u>
Huntingdon-Reit	328-378 Speedvale Drive Guelph ON N1E 1N5	294.9	<u>30</u>
328 Speedvale Commercial Centre Inc.	328-378 Speedvale Ave. East Guelph ON N1E 1N5	294.9	<u>30</u>
328 Speedvale Commercial Centre Inc.	328-378 Speedvale Ave. East Guelph ON N1E 1N5	294.9	<u>30</u>
328 Speedvale Commercial Centre Inc.	328-378 Speedvale Ave. East Guelph ON N1E 1N5	294.9	<u>30</u>
ROYAL CLEANERS	358 SPEEDVALE AVENUE EAST GUELPH ON N1E 1N5	297.4	<u>32</u>
ROYAL CLEANERS 33-163	358 SPEEDVALE AVENUE EAST GUELPH ON N1E 1N5	297.4	<u>32</u>
ROYAL CLEANERS	358 SPEEDVALE AVENUE EAST GUELPH ON N1E 1N5	297.4	<u>32</u>
ROBERT LANE INC.	358 SPEEDVALE AVENUE EAST GUELPH ON N1E 1N5	297.4	<u>32</u>

Site	Address	<u>Distance (m)</u>	<u>Map Key</u>
ROBERT LANE INC.	358 SPEEDVALE AVENUE EAST GUELPH ON N1E 1N5	297.4	<u>32</u>
ROBERT LANE INC.	358 SPEEDVALE AVENUE EAST GUELPH ON N1E 1N5	297.4	<u>32</u>
PHARMA PLUS DRUGS LTD	334 SPEEDVALE AVENUE EAST GUELPH ON N1E 1N5	297.8	<u>33</u>
PHARMA PLUS DRUGS LTD. 31-756	334 SPEEDVALE AVE. E. C/O 5935 AIRPORT ROAD #500 MISSISSAUGA ON L4V 1W5	297.8	<u>33</u>
PHARMA PLUS DRUGS LTD(OUT OF BUSINESS)	334 SPEEDVALE AVENUE EAST GUELPH ON N1E 1N5	297.8	<u>33</u>

HINC - TSSA Historic Incidents

A search of the HINC database, dated 2006-June 2009* has found that there are 1 HINC site(s) within approximately 0.30 kilometers of the project property.

Site	Address	<u>Distance (m)</u>	<u>Map Key</u>
	102 EMMA STREET GUELPH ON N1E 1T8	295.9	<u>31</u>

PES - Pesticide Register

A search of the PES database, dated Oct 2011- Apr 30, 2023 has found that there are 4 PES site(s) within approximately 0.30 kilometers of the project property.

<u>Site</u> BYRON FOOD MARKET	<u>Address</u> 330 SPEEDVALE AVENUE EAST GUELPH ON N1E1N5	<u>Distance (m)</u> 280.2	<u>Map Key</u> <u>28</u>
THE BARGAIN! SHOP HOLDINGS INC. (STORE#52961)	328 - 378 SPEEDVALE AVE GUELPH ON N1E1N5	294.9	<u>30</u>

<u>Site</u>	Address	Distance (m)	<u>Map Key</u>
THE BARGAIN! SHOP HOLDINGS INC. (STORE#52961)	328 - 378 SPEEDVALE AVE GUELPH ON N1E 1N5	294.9	<u>30</u>
THE BARGAIN! SHOP HOLDINGS INC. (STORE#52961)	328 - 378 SPEEDVALE AVE GUELPH ON N1E1N5	294.9	<u>30</u>

<u>PINC</u> - Pipeline Incidents

A search of the PINC database, dated Feb 28, 2021 has found that there are 4 PINC site(s) within approximately 0.30 kilometers of the project property.

<u>Site</u> Elmridge dr 145 apartment Building	<u>Address</u> 261 SPEEDVALE AVE E,,GUELPH,ON,N1E 1M8,CA ON	<u>Distance (m)</u> 201.9	<u>Map Key</u> <u>21</u>
PIPELINE HIT - 1 1/4"	261 SPEEDVALE AVE E,,GUELPH,ON,N1E 1M8,CA ON	201.9	<u>21</u>
PIPELINE HIT - 1/2"	7 LILAC PLACE,,GUELPH,ON,N1E 1K2,CA ON	253.4	<u>26</u>
2" Pipeline Hit	343 SPEEDVALE AVENUE EAST,,GUELPH, ON,N1E 1N6,CA ON	283.2	<u>29</u>

PRT - Private and Retail Fuel Storage Tanks

A search of the PRT database, dated 1989-1996* has found that there are 2 PRT site(s) within approximately 0.30 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
BEAVER FUELS MANAGEMENT LIMITED ATTENTION: MIRIAM	324 SPEEDVALE AV E GUELPH ON N1E 1N2	115.0	<u>15</u>
SOUTHLAND CANADA 2830 ATTN MARYANN GRAHOVAC	SPEEDVALE AT STEVENSON GUELPH ON	141.7	<u>16</u>

<u>Map Key</u>

<u>RST</u> - Retail Fuel Storage Tanks

A search of the RST database, dated 1999-Feb 28, 2023 has found that there are 1 RST site(s) within approximately 0.30 kilometers of the project property.

<u>Site</u>	<u>Address</u>	Distance (m)	<u>Map Key</u>
BEAVER FUELS	324 SPEEDVALE AVE E GUELPH ON N1E 1N2	115.0	<u>15</u>

<u>SCT</u> - Scott's Manufacturing Directory

A search of the SCT database, dated 1992-Mar 2011* has found that there are 4 SCT site(s) within approximately 0.30 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
D M L CONTROL INC.	317 SPEEDVALE AVE E FLOOR 2 GUELPH ON N1E 1N3	0.0	1
Hench Control International	317 Speedvale Ave E Floor 2 Guelph ON N1E 1N3	0.0	1
DML CONTROL INC.	317 Speedvale Ave E Floor 2 Guelph ON N1E 1N3	0.0	1
Candies of Merritt Ltd.	344 Speedvale Ave E Guelph ON N1E 1N5	297.8	<u>33</u>

SPL - Ontario Spills

A search of the SPL database, dated 1988-Oct 2021 has found that there are 13 SPL site(s) within approximately 0.30 kilometers of the project property.

Site	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
Enbridge Gas Inc.	, 310 Speedvale Ave. E Guelph ON	43.3	<u>3</u>

Site	Address	<u>Distance (m)</u>	<u>Map Key</u>
BEAVER GAS STATION	PEEDVALE AVE EAST/STEVENSON ST. SERVICE STATION GUELPH CITY ON	141.7	<u>16</u>
	329 Speedvale Ave E Guelph ON N1E 1N6	159.8	<u>17</u>
The Corporation of the City of Guelph	328 Speedville Ave East Guelph ON	188.1	<u>19</u>
	328 Speedvale Ave East Guelph ON	188.1	<u>19</u>
	Intersection of Gladstone and Speedvale Guelph ON	194.7	<u>20</u>
Union Gas Limited	7 Lilac Place Guelph ON	253.4	<u>26</u>
	330 Speedvale Ave. E. Guelph ON N1E 1N5	280.2	<u>28</u>
	330 Speedvale Ave East Guelph ON	280.2	<u>28</u>
Union Gas Ltd	343 Speedvale Ave East Guelph ON	283.2	<u>29</u>
Unknown <unofficial></unofficial>	378 Speedvale Avenue East, Guelph Guelph ON	294.9	<u>30</u>
Goderich-Exeter Railway Company Limited	behind Bipro plant on 231Speedvale Ave. Guelph ON	298.1	<u>34</u>

<u>Site</u>

Address Dista 231 SPEEDVALE AVE. BYPRO MARKETING 298.1 (IN FRONT OF) GUELPH CITY ON

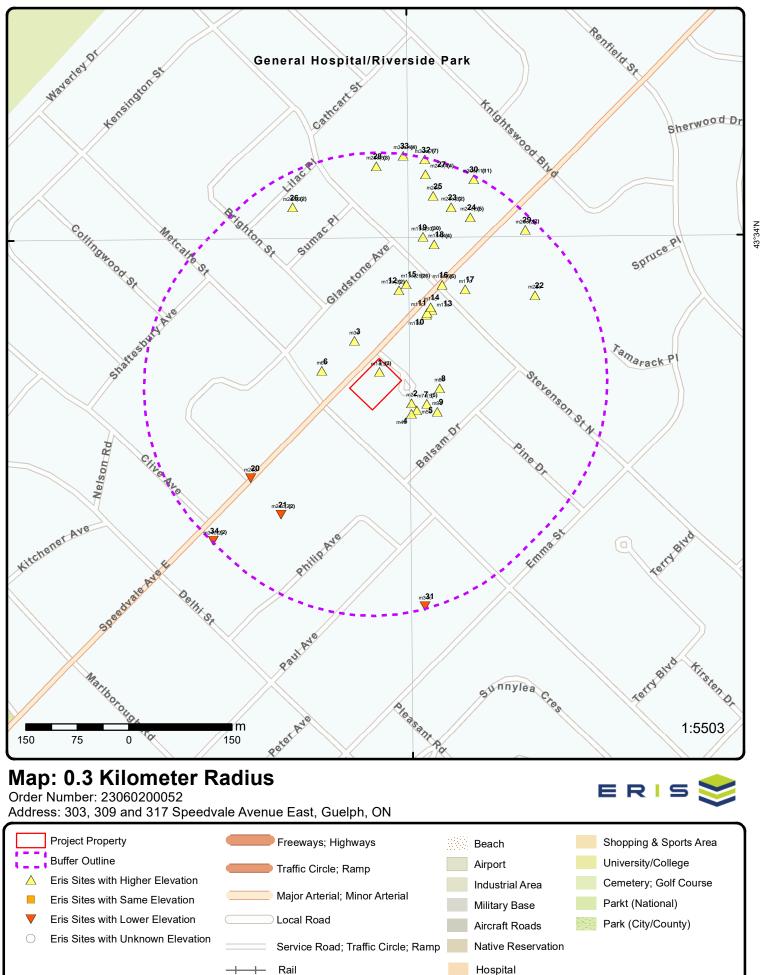
WWIS - Water Well Information System

A search of the WWIS database, dated Jun 30 2022 has found that there are 13 WWIS site(s) within approximately 0.30 kilometers of the project property.

<u>Address</u> MANHATTEN COURT Guelph ON	Distance (m) 33.6	<u>Map Key</u> 2
Well ID: 7285393		
324 SPEEDVALE RD Guelph ON	44.1	<u>4</u>
Well ID: 7160549		
328 SPEEDVALE AVENUE EAST Guelph ON	46.3	<u>5</u>
Well ID: 7178069		
328 SPEEDVALE AVENUE EAST Guelph ON	56.5	<u>8</u>
Well ID: 7178067		
328 SPEEDVALE AVENUE EAST Guelph ON	69.2	<u>9</u>
Well ID: 7178068		
323 SPEEDALE AVE E GUELPH ON	93.7	<u>10</u>
Well ID: 7200873		
323 SPEEDVALE AVE E Guelph ON	96.6	<u>11</u>
Well ID: 7278592		
ON	103.7	<u>12</u>
Well ID: 7201213		
323 SPEEDUALE GUELPH ON	104.3	<u>13</u>

<u>Address</u>	Distance (m)	<u>Map Key</u>
Well ID: 7200872		
323 SPEEDVALE AVE E Guelph ON	105.8	<u>14</u>
Well ID: 7278593		
328 SPEEDVALE AVE EAST Guelph ON	244.3	<u>23</u>
Well ID: 7357838		
328 SPEEDVALE AVE EAST Guelph ON	244.3	<u>23</u>
Well ID: 7357835		
328 SPEEDVALE AVE E Guelph ON	249.4	<u>25</u>
Well ID: 7277237		

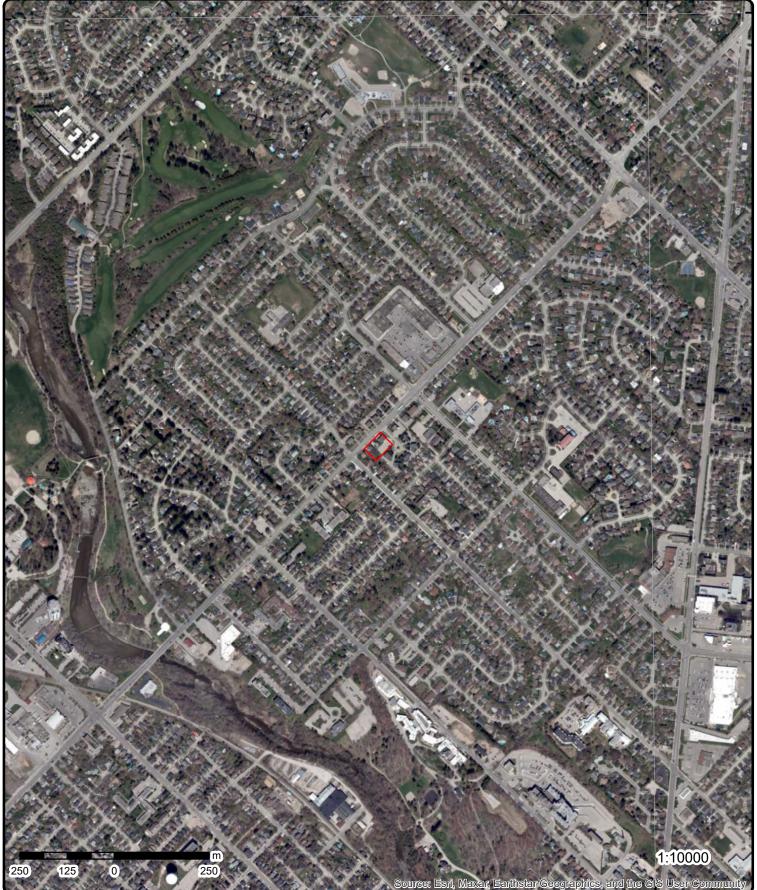




Source: © 2021 ESRI StreetMap Premium.

43°34'N

© ERIS Information Limited Partnership



Aerial Year: 2020

Address: 303, 309 and 317 Speedvale Avenue East, Guelph, ON

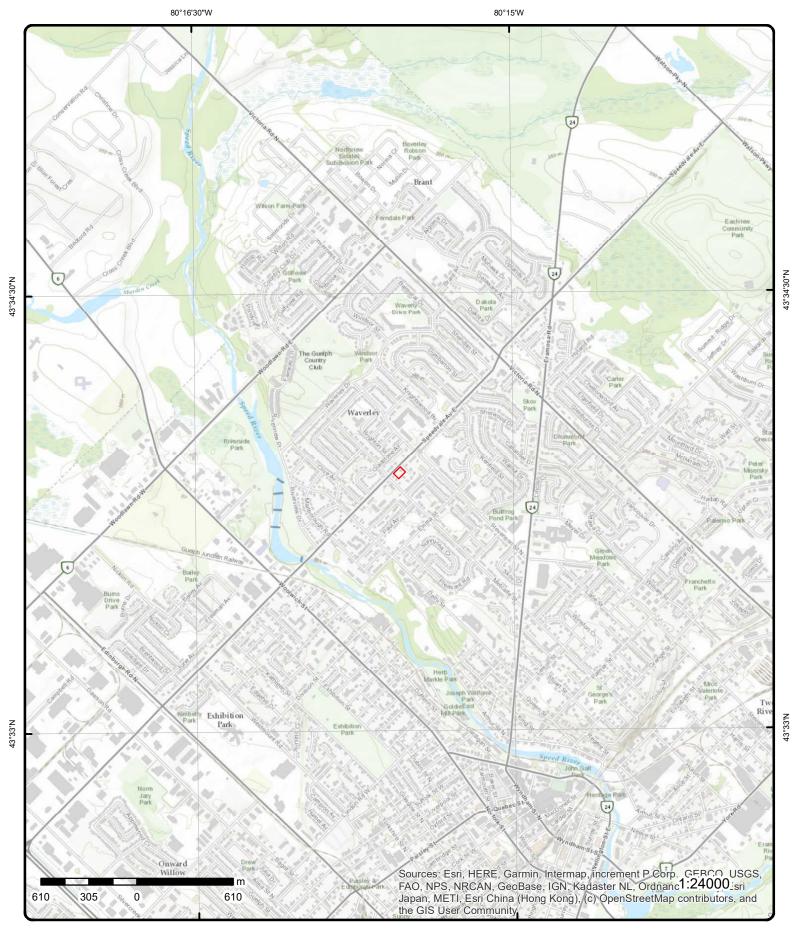
Source: ESRI World Imagery

Order Number: 23060200052



43°34'30"N

© ERIS Information Limited Partnership



Topographic Map

Address: 303, 309 and 317 Speedvale Avenue East, ON

Source: ESRI World Topographic Map

Order Number: 23060200052



© ERIS Information Limited Partnership

Detail Report

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
1	1 of 3	NNE/0.0	334.9/ 0.73	D M L CONTROL INC. 317 SPEEDVALE AVE E FLOOR 2 GUELPH ON N1E 1N3	SCT
Established: Plant Size (ft Employment		1993 2500 8			
<u>Details</u> Description: SIC/NAICS C	ode:	AIR-CONDITIONIN REFRIGERATION 3585	G AND WARM AIF	R HEATING EQUIPMENT, AND COMMERCIAL AND INDUSTRIAL	-
Description: SIC/NAICS C	ode:	WARM AIR HEATII 5075	NG & AIR-CONDIT	IONING EQUIPMENT AND SUPPLIES	
1	2 of 3	NNE/0.0	334.9/ 0.73	DML CONTROL INC. 317 Speedvale Ave E Floor 2 Guelph ON N1E 1N3	SCT
Established: Plant Size (ft Employment		1993 2500 8			
<u>Details</u> Description: SIC/NAICS C	ode:	Heating Equipment 333416	and Commercial R	Refrigeration Equipment Manufacturing	
1	3 of 3	NNE/0.0	334.9/ 0.73	Hench Control International 317 Speedvale Ave E Floor 2 Guelph ON N1E 1N3	SCT
Established: Plant Size (ft Employment		1993 2500			
<u>Details</u> Description: SIC/NAICS C	ode:	Heating Equipment 333416	and Commercial R	Refrigeration Equipment Manufacturing	
Description: SIC/NAICS C	ode:	Measuring, Medical 334512	and Controlling De	evices Manufacturing	
Description: SIC/NAICS C	ode:	Industrial Machiner 417230	y, Equipment and S	Supplies Wholesaler-Distributors	
Description: SIC/NAICS C	ode:	Office and Store Ma 417910	achinery and Equip	ment Wholesaler-Distributors	

Map Key	Numbe Record		Direction/ Distance (m)	Elev/Diff (m)	Site		DB
<u>2</u>	1 of 1		ESE/33.6	334.9 / 0.72	MANHATTEN COURT Guelph ON		WWIS
Well ID: Construction Use 1st: Use 2nd: Final Well St Water Type: Casing Mate Audit No: Tag: Construct In Elevation (m	tatus: erial: Method:	7285393 Monitoring Observatio Z228656 A202202	n Wells		Flowing (Y/N): Flow Rate: Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec: Contractor: Form Version: Owner: County:	19-Apr-2017 00:00:00 TRUE 7564 7 WELLINGTON	
Elevatn Reli Depth to Ber Well Depth: Overburden Pump Rate: Static Water Clear/Cloud Municipality Site Info:	drock: /Bedrock: · Level: y:	C	GUELPH CITY		Lot: Concession: Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability:		

 $https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/728\7285393.pdf$

Additional Detail(s) (Map)

PDF URL (Map):

Well Completed Date:	2016/09/28
Year Completed:	2016
Depth (m):	60.05
Latitude:	43.564492437824
Longitude:	-80.2583305057607
Path:	728\7285393.pdf

Bore Hole Information

Bore Hole ID:	1006382746	Elevation:	
DP2BR:		Elevrc:	
Spatial Status:		Zone:	17
Code OB:		East83:	559896.00
Code OB Desc:		North83:	4823771.00
Open Hole:		Org CS:	UTM83
Cluster Kind:		UTMRC:	3
Date Completed:	28-Sep-2016 00:00:00	UTMRC Desc:	margin of error : 10 - 30 m
Remarks:		Location Method:	gis
Loc Method Desc:	from gis		
Elevrc Desc:			
Location Source Date:			
Improvement Location	Source:		
Improvement Location	Method:		
Source Revision Comn	nent:		
Supplier Comment:			
Overburden and Bedro	<u>CK</u>		
<u>Materials Interval</u>			

Formation ID:	1006683896
Layer:	3
Color:	
General Color:	
Mat1:	15

37

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	I
Most Commo Mat2:	n Material:	LIMESTONE			
Watz: Wat2 Desc:					
Mat2 Desc. Mat3:		71			
Mat3 Desc:		FRACTURED			
Formation To	p Depth:	10.35999965667724	6		
Formation En	d Depth:	10.97000026702880			
	d Depth UOM:	m			
<u>Overburden a</u> Materials Inte					
Formation ID:		1006683894			
Layer:		1			
Color:		6			
General Color	r:	BROWN			
Mat1:		28			
Nost Commo	n Material:	SAND			
Mat2:		11			
Mat2 Desc:		GRAVEL			
Mat3: Mat3 Desc:					
Formation To	n Denth:	0.0			
Formation En		7.920000076293945	5		
	d Depth UOM:	m			
<u>Overburden a</u> Materials Inte					
- ormation ID:		1006683895			
ayer:		2			
Color:		2			
General Colo	r:	GREY			
Mat1:		05			
Most Commo	n Material:	CLAY			
<i>Mat2:</i> Mat2 Desc:		11 GRAVEL			
Mat2 Desc. Mat3:		28			
Mat3 Desc:		SAND			
Formation To	p Depth:	7.920000076293945	5		
Formation En		10.35999965667724			
	d Depth UOM:	m			
<u>Overburden a</u> Materials Inte					
ormation ID:		1006683897			
ayer:		4			
olor:		6			
eneral Color	r:	BROWN			
lat1:		15			
lost Commo	n Material:	LIMESTONE			
lat2: lat2 Decei					
/lat2 Desc: /lat3:					
lat3: lat3 Desc:					
Formation To	n Denth:	10.97000026702880	9		
Formation En		60.04999923706055			
Formation En	d Depth UOM:	m			
<u>Method of Co</u> <u>Jse</u>	nstruction & Well	-			
_					
38	erisinfo.com Er	vironmental Risk Info	rmation Service	es	Order No: 230602000

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Method Const Method Const Method Const Other Method	ruction Code: ruction:	1006683906 2 Rotary (Convent.)				
<u>Pipe Informati</u>	on					
Pipe ID: Casing No: Comment: Alt Name:		1006683893 0				
Construction	Record - Casing					
Casing ID: Layer: Material: Open Hole or I Depth From: Depth To: Casing Diame Casing Diame Casing Depth	ter: ter UOM:	1006683903 2 4 OPEN HOLE 11.72999954223632 60.04999923706055 15.55000019073486 cm m	5			
Construction	Record - Casing					
Casing ID: Layer: Material: Open Hole or I Depth From: Depth To: Casing Diame Casing Diame Casing Depth	ter: ter UOM:	1006683902 1 1 STEEL -0.50999999046325 11.72999954223632 15.55000019073486 cm m	.8			
Construction	Record - Screen					
Screen ID: Layer: Slot: Screen Top De Screen End De Screen Materia Screen Depth Screen Diame Screen Diame	epth: al: UOM: ter UOM:	1006683904 1 m cm				
<u>Water Details</u>						
Water ID: Layer: Kind Code: Kind: Water Found I Water Found I		1006683901 3 8 Untested 45.72000122070312 m	5			
<u>Water Details</u>						
Water ID:		1006683899				

	lumber of ecords	Direction/ Distance (m)	Elev/Diff (m)	Site		Di
Layer: Kind Code: Kind: Water Found Dep Water Found Dep		1 8 Untested 11.600000381469 m	727			
Water Details						
Water ID: Layer: Kind Code: Kind: Water Found Dep Water Found Dep		1006683900 2 8 Untested 35.970001220703 m	125			
Hole Diameter						
Hole ID: Diameter: Depth From: Depth To: Hole Depth UOM Hole Diameter U		1006683898 15.550000190734 0.0 60.049999237060 m cm				
<u>Links</u>						
Bore Hole ID: Depth M: Year Completed: Well Completed I Audit No:	60.05 2016	/09/28		Tag No: Contractor: Path: Latitude: Longitude:	A202202 7564 728\7285393.pdf 43.564492437824 -80.2583305057607	
<u>3</u> 10	of 1	NNW/43.3	335.7 / 1.56	Enbridge Gas Inc. , 310 Speedvale Ave. Guelph ON	E	SPL
Ref No: Site No: Incident Dt: Year: Incident Cause: Incident Event: Environment Imp Nature of Impact MOE Response: Dt MOE Arvl on S MOE Reported D Dt Document Clo Municipality No:	NA 9/17/ Leak cact: : No Scn: t: 9/17/	/Break		Contaminant Qty: Nature of Damage: Discharger Report: Material Group: Health/Env Conseq: Agency Involved: Site Lot: Site Conc: Site Geo Ref Accu: Site Map Datum: Northing: Easting:	0 other - see incident description 2 - Minor Environment	
System Facility A Client Type: Call Report Loca Contaminant Coc Contaminant Nan Contaminant Lim Contam Limit Fre	tion Geodata. de: ne: nit 1:	Corporation 35 NATURAL GAS (N	IETHANE)			
Contam Limit Fre Contaminant UN Receiving Mediu Receiving Enviro Incident Reason: Incident Summa Site Region:	No 1: m: onment:	1075 Air Operator/Human E TSSA FSB: Enbric West Central		tic main line damaged, made	e safe	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Site Municip	•	Guelph			
Activity Prec Property 2nd	• •				
	tiary Watershed:				
Sector Type:	•	Miscellaneous Co	mmunal		
SAC Action		TSSA - Fuel Safet	y Branch - Hydroca	rbon Fuel Release/Spill	
Source Type	:	Pipeline/Compone	ents		
Site County/		County of Wellingt	ton		
Site Geo Ref		A I I			
Site District		Guelph			
Nearest Wate Site Name:	ercourse:	Residential <unof< td=""><td></td><td></td><td></td></unof<>			
Site Address		, 310 Speedvale A			
Client Name		Enbridge Gas Inc.			
		, , , , , , , , , , , , , , , , , , ,			
<u>4</u>	1 of 1	ESE/44.1	334.6 / 0.39	324 SPEEDVALE RD Guelph ON	WWIS
Well ID: Constructior	71605 • Date:	49		Flowing (Y/N): Flow Rate:	

Construction Date: Use 1st: Use 2nd: Final Well Status: Water Type: Casing Material: Audit No: Tag: Constructn Method: Elevation (m): Elevatn Reliabilty: Depth to Bedrock: Well Depth: Overburden/Bedrock: Pump Rate: Static Water Level: Clear/Cloudy: Municipality: Site Info:

A094823

Monitoring

Test Hole

M06506

GUELPH CITY

Date Received: TRUE Selected Flag: Abandonment Rec: Contractor: 6607 Form Version: 5 Owner: County: Lot: Concession: Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability:

08-Jul-2010 00:00:00

WELLINGTON

PDF URL (Map):

https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/716\7160549.pdf

Data Entry Status:

Data Src:

Additional Detail(s) (Map)

Well Completed Date:	2010/02/17
Year Completed:	2010
Depth (m):	6.6
Latitude:	43.5643573861798
Longitude:	-80.2583321626956
Path:	716\7160549.pdf

Bore Hole Information

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Improvement	Location Source: Location Method: ion Comment:				
<u>Annular Spac</u> Sealing Reco	<u>e/Abandonment</u> rd				
Plug ID: Layer: Plug From: Plug To:		1004560523			
Plug Depth U	OM:	m			
<u>Method of Co</u> <u>Use</u>	onstruction & Well				
Method Cons	truction Code: truction:	1004560522			
Other Method	l Construction:	BORING			
Pipe Information	<u>tion</u>				
Pipe ID: Casing No: Comment: Alt Name:		1004560524 0			
<u>Construction</u>	Record - Casing				
Casing ID:		1004560526			
Layer:		1			
Material: Open Hole or	Matorial	5 PLASTIC			
Depth From:	material.	TEACHO			
Depth To:		3.599999904632568	84		
Casing Diam					
Casing Diame Casing Depth		cm m			
<u>Construction</u>	Record - Screen				
Screen ID: Layer:		1004560525 1			
Slot:		I			
Screen Top D	Depth:	3.599999904632568	84		
Screen End L		6.599999904632568	8		
Screen Mater Screen Depth		m			
Screen Diam		cm			
Screen Diam	eter:				
<u>Results of We</u>	ell Yield Testing				
Pumping Tes Pump Test ID	t Method Desc:):	1004560527			
Pump Set At:			2		
Static Level:		4.90000095367432	2		

Final Level After Recommended I Pumping Rate: Flowing Rate: Recommended I Levels UOM:						
Rate UOM: Water State Afte Water State Afte Pumping Test M Pumping Duratic Pumping Duratic Flowing:	r Test Code: r Test: ethod: on HR:	m				
<u>Hole Diameter</u>						
		4004500504				
Hole ID:		1004560521				
Diameter: Depth From:		21.0				
Depth From: Depth To:		6.599999904632568	3			
Hole Depth UOM	ŋ.	m	,			
Hole Diameter U		cm				
Bore Hole Inforn	nation					
Bore Hole ID:	100456	0528		Elevation:		
DP2BR:	100-100	0020		Elevrc:		
Spatial Status:				Zone:	17	
Code OB:				East83:	559882.00	
Code OB Desc:				North83:	4823722.00	
Open Hole:				Org CS:	UTM83	
Cluster Kind:	This is a	a record from cluster lo	g sheet	UTMRC:	4	
Date Completed		2010 00:00:00	•	UTMRC Desc:	margin of error : 30 m - 100 m	
Remarks:				Location Method:	WWR	
Loc Method Des	c:					
Elevrc Desc:						
Location Source Improvement Lo Improvement Lo Source Revision Supplier Comme	cation Source: cation Method: Comment:					
Annular Space/A Sealing Record	Abandonment					
		1004500500				
Plug ID: Lavor:		1004560532				
Layer: Plug From:						
Plug To:						
Plug Depth UOM	1:	m				
<u>Method of Const</u> Use	truction & Well					
Method Construe Method Construe	ction Code:	1004560531				
Method Construe Other Method Co		BORING				
Pipe Information	2					
Pipe ID:		1004560533				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Casing No: Comment: Alt Name:		0				
Construction	Record - Casing					
Casing ID:		1004560535				
Layer: Motoriol		1				
Material: Open Hole or	Material:	5 PLASTIC				
Depth From:						
Depth To: Casing Diame	otor:	1.899999976158142	2			
Casing Diame		cm				
Casing Depth		m				
Construction	Record - Screen					
Screen ID:		1004560534				
Layer:		1				
Slot: Screen Top D	enth:	1.899999976158142	>			
Screen End D		4.90000095367432				
Screen Mater	ial:					
Screen Depth Screen Diame		m cm				
Screen Diame		CIII				
Results of We	ell Yield Testing					
	t Method Desc:					
Pump Test ID Pump Set At:		1004560536				
Static Level:		4.5				
Final Level A	fter Pumping:					
	ed Pump Depth:					
Pumping Rate						
	ed Pump Rate:					
Levels UOM:		m				
Rate UOM: Watar Stata	fter Test Code:					
Water State A						
Pumping Tes						
Pumping Dur						
Pumping Dur Flowing:						
Hole Diamete	<u>r</u>					
Hole ID:		1004560530				
Diameter:		21.0				
Depth From: Depth To:		4.900000095367432	>			
Hole Depth U	OM:	m	-			
Hole Diamete		cm				
Bore Hole Inf	ormation					
Bore Hole ID:	10034	86621		Elevation:		
DP2BR: Spatial Status	~.			Elevrc:	17	
	5.			Zone:	17	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Code OB: Code OB Des Open Hole: Cluster Kind:	No			East83: North83: Org CS: UTMRC:	559896.00 4823756.00 UTM83 3	
Date Complet Remarks:		2010 00:00:00		UTMRC Desc: Location Method:	margin of error : 10 - 30 m wwr	
Loc Method L Elevrc Desc: Location Sou		on Water Well Recor	ď			
Improvement Improvement	Location Source: Location Method: ion Comment:					
<u>Overburden a</u> Materials Inte						
Formation ID. Layer: Color: General Colo Mat1: Most Commo Mat2: Mat2 Desc: Mat3 Desc:	r:	1004560539 1 6 BROWN 28 SAND				
Formation To Formation En	p Depth: d Depth: d Depth UOM:	0.0 4.5 m				
<u>Overburden a</u> <u>Materials Inte</u>						
Formation ID. Layer: Color: General Colo Mat1: Most Commo Mat2: Mat2 Desc: Mat3:	r:	1004560540 2 6 BROWN 11 GRAVEL 28 SAND				
<i>Mat3 Desc: Formation To Formation En Formation En</i>	p Depth: d Depth: d Depth UOM:	4.5 6.599999904632568 m				
<u>Annular Spac</u> <u>Sealing Reco</u>	<u>e/Abandonment</u> rd					
Plug ID: Layer: Plug From: Plug To: Plug Depth U	ОМ:	1004560543 2 3.599999904632568 6.599999904632568 m				
<u>Annular Spac</u> Sealing Reco	e/Abandonment rd					
Plug ID: Layer:		1004560542 1				

Plug From: Plug To: Plug Depth U(
	OM:	0.0 3.5999999046325684 m	4	
<u>Method of Col Use</u>	nstruction & Well			
Method Const	truction ID: truction Code:	1004560548 6		
Method Const Method Const		Boring		
Other Method	Construction:	U U		
Pipe Informati	ion			
Pipe ID:		1004560537		
Casing No: Comment:		0		
Alt Name:				
Construction	Record - Casing			
Casing ID:		1004560545		
Layer: Material:		1 5		
Open Hole or	Material:	PLASTIC		
Depth From:		0.0		
Depth To:	4	6.599999904632568		
Casing Diame Casing Diame		5.099999904632568 cm		
Casing Depth		m		
Construction	Record - Screen			
Screen ID:		1004560546		
Layer: Slot:		1 10		
Screen Top De	epth:	10		
Screen End D	epth:	_		
Screen Materi		5		
Screen Depth Screen Diame		m cm		
Screen Diame		6.40000095367432		
Results of We	ell Yield Testing			
	t Method Desc:	4004500500		
Pump Test ID: Pump Set At:	:	1004560538		
Static Level:		4.199999809265137		
Final Level Af				
Recommende Pumping Rate	ed Pump Depth:			
Flowing Rate:				
Recommende	ed Pump Rate:			
Levels UOM:		m		
Rate UOM: Water State A	fter Test Code:	0		
Water State A		÷		
Pumping Test		0		
Pumping Dura				
Pumping Dura Flowing:	ation MIN:			

Water Details

Water ID:	1004560544
Layer:	1
Kind Code:	
Kind:	
Water Found Depth:	5.099999904632568
Water Found Depth UOM:	m
•	

Hole Diameter

Hole ID:	1004560541
Diameter:	21.0
Depth From:	0.0
Depth To:	6.599999904632568
Hole Depth UOM:	m
Hole Diameter UOM:	cm

<u>Links</u>

Bore Hole ID:	1003486621	Tag No:	A094823
Depth M:	6.6	Contractor:	6607
Year Completed:	2010	Path:	716\7160549.pdf
Well Completed Dt:	2010/02/17	Latitude:	43.5643573861798
Audit No:	M06506	Longitude:	-80.2583321626956

<u>5</u>	1 of 1	ESE/46.3	334.6 / 0.39	328 SPEEDVALE AV Guelph ON	ENUE EAST	WWIS
Well ID: Construc	tion Date:	7178069		Flowing (Y/N): Flow Rate:		
Use 1st: Use 2nd:		Monitoring		Data Entry Status: Data Src:		
Final Wel Water Tyj Casing M	be:	Observation Wells		Date Received: Selected Flag: Abandonment Rec:	14-Mar-2012 00:00:00 TRUE	
Audit No: Tag:		Z130566 A126153		Contractor: Form Version:	6607 7	
	• •			Owner: County: Lot:	WELLINGTON	
Depth to Well Dept	Bedrock:			Concession: Concession Name: Easting NAD83:		
Clear/Clo	ter Level: udy:			Northing NAD83: Zone: UTM Reliability:		
Municipa Site Info:	•	GUELPH TOWNSH	IP			
00 <i>5</i> 1101	/ ** \				(2) A / a to a / A / a lla a a dfa / 74 7) 74 70000 a alf	

PDF URL (Map):

https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/717\7178069.pdf

Additional Detail(s) (Map)

Well Completed Date: Year Completed: Depth (m): Latitude: Longitude: Path: 2012/02/09 2012 4.5 43.5644017607587 -80.2582325577339 717\7178069.pdf

Bore Hole Information

Bore Hole ID: DP2BR: Spatial Status: Code OB: Code OB Desc: Open Hole: Cluster Kind: Date Completed: Remarks:	1003703879 09-Feb-2012 00:00:00	Elevation: Elevrc: Zone: East83: North83: Org CS: UTMRC: UTMRC Desc: Location Method:	17 559904.00 4823761.00 UTM83 4 margin of error : 30 m - 100 m wwr
Loc Method Desc: Elevrc Desc: Location Source Date: Improvement Location Improvement Location			

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

Source Revision Comment: Supplier Comment:

Formation ID: Layer: Color: General Color:	1004193426 3 2 GREY
Mat1:	06
Most Common Material:	SILT
Mat2:	28
Mat2 Desc:	SAND
Mat3:	66
Mat3 Desc:	DENSE
Formation Top Depth:	3.0
Formation End Depth:	4.5
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1004193424
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	11
Mat2 Desc:	GRAVEL
Mat3:	01
Mat3 Desc:	FILL
Formation Top Depth:	0.0
Formation End Depth:	0.8999999761581421
Formation End Depth UOM:	m

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

Formation ID:	1004193425
Layer:	2
Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND

• •	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Mat2: Mat2 Desc:		06 SILT			
Mat3:					
Mat3 Desc:					
Formation Top		0.899999976158142	21		
Formation End		3.0			
Formation End	Deptn UOM:	m			
<u>Annular Space/</u> Sealing Record					
Plug ID:		1004193434			
Layer:		2			
Plug From:		0.30000011920928			
Plug To:		1.200000047683715	58		
Plug Depth UO	VI:	m			
<u>Annular Space/</u> Sealing Record					
Plug ID:		1004193433			
Layer:		1			
Plug From:		0.0			
Plug To:		0.300000011920928	396		
Plug Depth UO	VI:	m			
<u>Method of Cons</u> <u>Use</u>	struction & Well				
Method Constru		1004193432			
Method Constru		6			
Method Constru Other Method C		Boring			
<u>Pipe Informatio</u>	<u>n</u>				
Pipe ID:		1004193423			
Casing No:		0			
Comment:		0			
Alt Name:					
Construction R	ecord - Casing				
Casing ID:		1004193429			
Layer:		1			
Material:		5			
Open Hole or M	laterial:	PLASTIC			
Depth From:		0.0			
Depth To: Casing Diamete	~	1.5 5.099999904632568	0		
Casing Diamete		cm	5		
Casing Depth U		m			
Construction R	ecord - Screen				
Screen ID:		1004193430			
Layer:		1			
Slot:		20			
Screen Top Dep		1.5 4.5			
Screen End Dep Screen Material		4.5 5			
Screen waterial		J			

Map Key	Number Record		Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Screen Dept Screen Diam Screen Diam	neter UOM:		m cm 6.40000095367432				
Water Detail	<u>s</u>						
Water ID: Layer: Kind Code: Kind: Water Found	d Donthi		1004193428				
Water Found Water Found		И:	m				
Hole Diamet	<u>er</u>						
Hole ID: Diameter: Depth From: Depth To: Hole Depth I Hole Diamet	JOM:		1004193427 21.0 0.0 4.5 m cm				
<u>Links</u>							
Bore Hole ID Depth M: Year Comple Well Comple Audit No:	eted:	1003703 4.5 2012 2012/02/ Z130566	09		Tag No: Contractor: Path: Latitude: Longitude:	A126153 6607 717\7178069.pdf 43.5644017607587 -80.2582325577339	
<u>6</u>	1 of 1		W/47.7	334.8 / 0.61	300 Speedvale Ave E Guelph ON N1E 1N2		EHS
Order No: Status: Report Type Report Date: Date Receive Previous Sit Lot/Building Additional In	: ed: e Name: ' Size:	2013031 C Custom F 25-MAR- 15-MAR-	Report 13	/or Site Plans; A	Nearest Intersection: Municipality: Client Prov/State: Search Radius (km): X: Y: erial Photos	Guelph Ontario ON .1 0 0	
<u>7</u>	1 of 5		ESE/50.4	334.9 / 0.69	7, 8, 9, 10 and 11 Man Guelph ON	hattan Court	EHS
Order No: Status: Report Type Report Date: Date Receive Previous Sit Lot/Building Additional In	: ed: e Name: Size:	2009122: C Custom F 12/30/200 12/22/200	Report 09		Nearest Intersection: Municipality: Client Prov/State: Search Radius (km): X: Y:	ON 0.25 -80.258123 43.564635	
7	2 of 5		ESE/50.4	334.9 / 0.69	7, 9, 10 and 11 Manha Guelph ON N1E 3W1	ttan Court	EHS
Order No: Status:		2103010 C	0415		Nearest Intersection: Municipality:		
50	erisinfo.co	om Envir	onmental Risk Infor	mation Service	es	Order No	: 23060200052

Мар Кеу	Number Records		Elev/Diff (m)	Site		DB
Report Type Report Date Date Receiv Previous Si Lot/Building Additional I	e: /ed: ite Name:	Standard Report 04-MAR-21 01-MAR-21		Client Prov/State: Search Radius (km): X: Y:	ON .25 -80.25805 43.5644825	
<u>7</u>	3 of 5	ESE/50.4	334.9 / 0.69	7, 9, 10 and 11 Manha Guelph ON N1E 3W1	attan Court	EHS
Order No: Status: Report Type Report Date Date Receiv Previous Si Lot/Building Additional I	e: /ed: ite Name:	21030100415 C Standard Report 04-MAR-21 01-MAR-21		Nearest Intersection: Municipality: Client Prov/State: Search Radius (km): X: Y:	ON .25 -80.25805 43.5644825	
<u>7</u>	4 of 5	ESE/50.4	334.9 / 0.69	7, 9, 10 and 11 Manha Guelph ON N1E 3W1	attan Court	EHS
Order No: Status: Report Type Report Date Date Receiv Previous Si Lot/Building Additional I	e: /ed: ite Name:	21030100415 C Standard Report 04-MAR-21 01-MAR-21		Nearest Intersection: Municipality: Client Prov/State: Search Radius (km): X: Y:	ON .25 -80.25805 43.5644825	
<u>7</u>	5 of 5	ESE/50.4	334.9 / 0.69	7, 9, 10 and 11 Manha Guelph ON N1E 3W1	attan Court	EHS
Order No: Status: Report Type Report Date Date Receiv Previous Si Lot/Building Additional I	e: /ed: ite Name:	21030100415 C Standard Report 04-MAR-21 01-MAR-21		Nearest Intersection: Municipality: Client Prov/State: Search Radius (km): X: Y:	ON .25 -80.25805 43.5644825	
<u>8</u>	1 of 1	E/56.5	334.9 / 0.69	328 SPEEDVALE AVE Guelph ON	ENUE EAST	wwis
Well ID: Construction Use 1st: Use 2nd: Final Well S Water Type Casing Mate Audit No: Tag: Construction Elevation (r Elevatin Rel Depth to Be	Status: : erial: Method: n): iabilty:	7178067 Monitoring and Test Hole 0 Observation Wells Z130565 A126313		Flowing (Y/N): Flow Rate: Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec: Contractor: Form Version: Owner: County: Lot: Concession:	14-Mar-2012 00:00:00 TRUE 6607 7 WELLINGTON	

Order No: 23060200052

	ecords	Direction/ Distance (m)	Elev/Diff (m)	Site		I
Well Depth:				Concession Name:		
Overburden/Bedr	rock:			Easting NAD83:		
Pump Rate:				Northing NAD83:		
Static Water Leve	ə:			Zone:		
Clear/Cloudy:		GUELPH TOWNSH	ID	UTM Reliability:		
<i>Municipality:</i> Site Info:		GUELPH TOWNSH	IP			
PDF URL (Map):		https://d2khazk8e83	rdv.cloudfront.ne	et/moe_mapping/download	ls/2Water/Wells_pdfs/717\7178067.pdf	
Additional Detail	(s) (Map)					
		2012/02/00				
Well Completed L		2012/02/09				
Year Completed:		2012				
Depth (m):		5.1 43.5646872191126				
Latitude:						
Longitude: Path:		-80.2578204283461 717\7178067.pdf				
Bore Hole Inform						
Bore Hole ID:	100370	13876		Elevation:		
DP2BR:				Elevrc:	47	
Spatial Status:				Zone:	17	
Code OB:				East83:	559937.00	
Code OB Desc:				North83:	4823793.00	
Open Hole:				Org CS:	UTM83	
Cluster Kind:				UTMRC:	4	
Date Completed:	09-Feb	-2012 00:00:00		UTMRC Desc:	margin of error : 30 m - 100 m	
Remarks:				Location Method:	wwr	
Loc Method Desc	::	on Water Well Reco	rd			
Elevrc Desc:						
Location Source Improvement Loc Improvement Loc Source Revision	cation Source: cation Method: Comment:					
Supplier Comme Overburden and	<u>Bedrock</u>					
Supplier Comme Overburden and	<u>Bedrock</u>					
Supplier Comme Overburden and Materials Interval Formation ID:	<u>Bedrock</u>	1004193400				
Supplier Comme Overburden and I Materials Interval Formation ID: Layer:	<u>Bedrock</u>	3				
Supplier Comme <u>Overburden and Materials Interval</u> Formation ID: Layer: Color:	<u>Bedrock</u>	3 6				
Supplier Commen Overburden and Materials Interval Formation ID: Layer: Color: General Color:	<u>Bedrock</u>	3 6 BROWN				
Supplier Commen <u>Overburden and Materials Interval</u> Formation ID: Layer: Color: General Color: Wat1:	<u>Bedrock</u>	3 6 BROWN 28				
Supplier Commen <u>Overburden and Materials Interval</u> Formation ID: Layer: Color: General Color: Mat1: Wost Common M	<u>Bedrock</u>	3 6 BROWN 28 SAND				
Supplier Commen Dverburden and Materials Interval Formation ID: Layer: Color: Color: General Color: Mat1: Most Common M Mat2:	<u>Bedrock</u>	3 6 BROWN 28 SAND 06				
Supplier Commen <u>Dverburden and</u> <u>Materials Interval</u> Formation ID: Layer: Color: Golor: General Color: Mat1: Most Common M Mat2: Mat2 Desc:	<u>Bedrock</u>	3 6 BROWN 28 SAND 06 SILT				
Supplier Commen <u>Overburden and Materials Interval</u> Formation ID: Layer: Color: General Color: Mat1: Most Common M Mat2: Mat2: Mat2 Desc: Mat3:	<u>Bedrock</u>	3 6 BROWN 28 SAND 06 SILT 77				
Supplier Commen <u>Overburden and Materials Interval</u> Formation ID: Layer: Color: General Color: Mat1: Most Common M Mat2: Mat2 Desc: Mat3: Mat3 Desc:	<u>Bedrock</u> ! aterial:	3 6 BROWN 28 SAND 06 SILT 77 LOOSE				
Supplier Commen <u>Overburden and Materials Interval</u> Formation ID: Layer: Color: General Color: Mat1: Most Common M Mat2: Mat2 Desc: Mat3: Formation Top D	<u>Bedrock</u> ! aterial: epth:	3 6 BROWN 28 SAND 06 SILT 77 LOOSE 2.700000047683716				
Supplier Commen <u>Overburden and Materials Interval</u> Formation ID: Layer: Color: General Color: Mat1: Most Common M Mat2: Mat2 Desc: Mat3 Desc: Formation Top D Formation End D	<u>Bedrock</u> ! aterial: epth: epth:	3 6 BROWN 28 SAND 06 SILT 77 LOOSE 2.700000047683716 5.099999904632568				
Supplier Commen <u>Overburden and Materials Interval</u> Formation ID: Layer: Color: General Color: Mat1: Most Common M Mat2: Mat2 Desc: Mat3 Desc: Formation Top D Formation End D	<u>Bedrock</u> ! aterial: epth: epth:	3 6 BROWN 28 SAND 06 SILT 77 LOOSE 2.700000047683716				
Supplier Commen <u>Overburden and</u> <u>Materials Interval</u> Formation ID: Layer: Color: General Color: Mat1: Most Common M Mat2: Mat2 Desc: Mat3 Desc: Formation Top De Formation End D Formation End D Coverburden and	<u>Bedrock</u> aterial: epth: epth: epth UOM: <u>Bedrock</u>	3 6 BROWN 28 SAND 06 SILT 77 LOOSE 2.700000047683716 5.099999904632568				
Supplier Commen <u>Overburden and</u> <u>Materials Interval</u> Formation ID: Layer: Color: General Color: Mat1: Most Common M Mat2: Mat2 Desc: Mat3 Desc: Formation Top De Formation End D Formation End D <u>Overburden and</u> <u>Materials Interval</u>	<u>Bedrock</u> aterial: epth: epth: epth UOM: <u>Bedrock</u>	3 6 BROWN 28 SAND 06 SILT 77 LOOSE 2.700000047683716 5.099999904632568 m				
Supplier Commen <u>Materials Interval</u> Formation ID: Layer: Color: General Color: Mat1: Most Common M Mat2: Mat2 Desc: Mat3 Desc: Formation End D Formation End D Formation End D Formation End D Formation ID: Formation ID:	<u>Bedrock</u> aterial: epth: epth: epth UOM: <u>Bedrock</u>	3 6 BROWN 28 SAND 06 SILT 77 LOOSE 2.700000047683716 5.099999904632568 m				
Supplier Commen <u>Overburden and Materials Interval</u> Formation ID: Layer: Color: General Color: Mat1: Most Common M Mat2: Mat2 Desc: Mat3 Desc: Formation End D Formation End D Formation End D <u>Overburden and Materials Interval</u> Formation ID: Layer:	<u>Bedrock</u> aterial: epth: epth: epth UOM: <u>Bedrock</u>	3 6 BROWN 28 SAND 06 SILT 77 LOOSE 2.700000047683716 5.099999904632568 m				
Supplier Commen <u>Overburden and Materials Interval</u> Formation ID: Layer: Color: General Color: Mat1: Most Common M Mat2: Mat2 Desc: Mat3 Desc: Formation End D Formation End D Formation End D <u>Overburden and Materials Interval</u> Formation ID: Layer: Color:	<u>Bedrock</u> aterial: epth: epth: epth UOM: <u>Bedrock</u>	3 6 BROWN 28 SAND 06 SILT 77 LOOSE 2.700000047683716 5.099999904632568 m				
Supplier Commen <u>Dverburden and Materials Interval</u> Formation ID: Layer: Color: General Color: Mat1: Most Common M Mat2: Mat2 Desc: Mat3 Desc: Formation End D Formation End D <u>Dverburden and Materials Interval</u> Formation ID: Layer:	<u>Bedrock</u> aterial: epth: epth: epth UOM: <u>Bedrock</u>	3 6 BROWN 28 SAND 06 SILT 77 LOOSE 2.700000047683716 5.099999904632568 m				

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Mat1:		06			
Most Commo	on Material:	SILT			
Mat2:		28			
Mat2 Desc:		SAND			
Mat3:		73			
Mat3 Desc:		HARD			
Formation To		2.099999904632568	34		
Formation Er	nd Depth:	2.700000047683716	;		
Formation Er	nd Depth UOM:	m			
Overburden a Materials Inte					
Formation ID	:	1004193398			
Layer:		1			
Color:		6			
General Colo	or:	BROWN			
Mat1:		28			
Most Commo	on Material:	SAND			
Mat2:		06			
Mat2 Desc:		SILT			
Mat3:		•			
Mat3 Desc:					
Formation To	on Denth:	0.0			
Formation Er		2.099999904632568	4		
	nd Depth UOM:	m	•		
<u>Annular Spac</u> <u>Sealing Reco</u>	<u>ce/Abandonment</u> ord				
Plug ID:		1004193409			
Layer:		2			
Plug From:		0.300000011920928	96		
Plug To:		3.0			
Plug Depth U	IOM:	m			
<u>Annular Spaces Sealing Reco</u>	<u>ce/Abandonment</u> ord				
Plug ID:		1004193408			
Layer:		1			
Plug From:		0.0			
Plug To:		0.300000011920928	96		
Plug Depth U	юм·	m			
ring Dopin o					
<u>Method of Co</u> <u>Use</u>	onstruction & Well				
Method Cons	struction ID:	1004193407			
	struction Code:	6			
Method Cons		Boring			
	d Construction:	209			
<u>Pipe Informa</u>	tion				
Dine ID.		100/102207			
Pipe ID:		1004193397			
Casing No:		0			
Comment:					
Alt Name:					
Construction	Record - Casing				
	-				

	Number Records		Elev/Diff n) (m)	Site		DE
Casing ID:		1004193403				
_ayer:		1				
Material:		5				
Open Hole or	Material:	PLASTIC				
Depth From:		0.0				
Depth To:		1.0				
Casing Diame	eter:	5.099999904632	568			
Casing Diame Casing Depth		cm m				
Construction	Record - S	creen				
Screen ID:		1004193404				
Layer:		1				
Slot:		20				
Screen Top D	epth:	2.099999904632	5684			
Screen End D		5.099999904632				
Screen Materi		5				
Screen Depth		m				
Screen Diame		cm				
Screen Diame		6.400000095367	432			
Nater Details						
Nater ID:		1004193402				
Layer:						
Kind Code:						
Kind:						
Nater Found						
Nater Found	Depth UON	<i>1:</i> m				
Hole Diameter	r					
Hole ID:		1004193401				
Diameter:		21.0				
Depth From:		0.0				
Depth To:		5.099999904632	568			
Hole Depth U	OM:	m				
Hole Diameter	r UOM:	cm				
Links						
Bore Hole ID:		1003703876		Tag No:	A126313	
Depth M:		5.1		Contractor:	6607	
Year Complet	ed:	2012		Path:	717\7178067.pdf	
Nell Complete		2012/02/09		Latitude:	43.5646872191126	
Audit No:		Z130565		Longitude:	-80.2578204283461	
<u>9</u>	1 of 1	ESE/69.2	334.9 / 0.69	328 SPEEDVALE A Guelph ON	VENUE EAST	WWIS
Nell ID:		7178068		Flowing (Y/N):		
Construction	Date:			Flow Rate:		
Use 1st:		Monitoring		Data Entry Status:		
Jse 2nd:		-		Data Src:		
Final Well Sta	tus:	Observation Wells		Date Received:	14-Mar-2012 00:00:00	
				Selected Flag:	TRUE	
Nater Type:	ial·			Abandonment Rec:		
<i>Nater Type:</i> Casing Materi Audit No:	un.	Z130564		Contractor:	6607	
Casing Materi		Z130564 A126245		Contractor: Form Version:	6607 7	

	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site		Ľ
Elevation (m): Elevatn Reliabil Depth to Bedro Well Depth: Overburden/Bed Pump Rate: Static Water Le Clear/Cloudy: Municipality: Site Info:	ck: drock:	GUELPH TOWNSH	IP	County: Lot: Concession: Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability:	WELLINGTON	
PDF URL (Map)	:	https://d2khazk8e83	Brdv.cloudfront.ne	et/moe_mapping/downloads	s/2Water/Wells_pdfs/717\7178068.pdf	
Additional Deta	<u>il(s) (Map)</u>					
Well Completed Year Completed Depth (m): Latitude: Longitude: Path:		2012/02/09 2012 5.1 43.5643813432248 -80.2578613313849 717\7178068.pdf)			
Bore Hole Infor	<u>mation</u>					
	d: 09-Feb sc: e Date: ocation Source: ocation Method: n Comment:	o-2012 00:00:00 on Water Well Reco	ord	Elevrc: Zone: East83: North83: Org CS: UTMRC: UTMRC Desc: Location Method:	17 559934.00 4823759.00 UTM83 4 margin of error : 30 m - 100 m wwr	
Overburden and Materials Interv						
Formation ID: Layer: Color: General Color: Mat1: Most Common Mat2: Mat2 Desc: Mat3 Desc: Formation Top Formation End Formation End	Depth: Depth:	1004193411 1 6 BROWN 28 SAND 11 GRAVEL 01 FILL 0.0 0.600000023841857 m	79			
<u>Overburden and</u> Materials Interv						
Formation ID:		1004193413				

• •	mber of cords	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Layer:		3			
Color: General Color:		2 GREY			
Mat1:		06			
Most Common Ma	terial:	SILT			
Mat2:		28			
Mat2 Desc:		SAND			
Mat3:		85			
Mat3 Desc:		SOFT			
Formation Top De		2.099999904632568	4		
Formation End De		3.299999952316284			
Formation End De	pth UOM:	m			
<u>Overburden and E</u> <u>Materials Interval</u>	edrock				
Formation ID:		1004193412			
Layer:		2			
Color:		6 BDOW(N			
General Color:		BROWN			
Mat1: Most Common Ma	torial	28 SAND			
Most Common Ma Mat2:		SAND 06			
Mat2 Desc:		SILT			
Mat3:		66			
Mat3 Desc:		DENSE			
Formation Top De	pth:	0.60000023841857	9		
Formation End De	pth:	2.099999904632568	4		
Formation End De	pth UOM:	m			
<u>Overburden and E</u> <u>Materials Interval</u>	edrock				
Formation ID:		1004193414			
Layer:		4			
Color:		2			
General Color:		GREY			
Mat1: Most Common Ma	toriali	06 SILT			
Mat2:	lenai.	28			
Mat2 Desc:		SAND			
Mat2 Desc. Mat3:		66			
Mat3 Desc:		DENSE			
Formation Top De	pth:	3.299999952316284			
Formation End De	pth:	5.099999904632568			
Formation End De	pth UOM:	m			
<u>Annular Space/Ab</u> <u>Sealing Record</u>	andonment_				
Plug ID:		1004193422			
Layer: Plug From:		2 0.300000011920928	96		
Plug To:		3.0			
Plug Depth UOM:		m			
<u>Annular Space/Ab</u> <u>Sealing Record</u>	andonment_				
Plug ID:		1004193421			
Layer:		1			
Plug From:		0.0			
-					

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Plug To: Plug Depth U	IOM:	0.300000011920928 m	396		
<u>Method of Co Use</u>	onstruction & Well				
Method Cons	struction Code:	1004193420 6 Boring			
<u>Pipe Informa</u>	<u>tion</u>				
Pipe ID: Casing No: Comment: Alt Name:		1004193410 0			
<u>Construction</u>	Record - Casing				
Casing ID: Layer: Material: Open Hole or Depth From: Depth To: Casing Diam Casing Diam Casing Depth	eter: eter UOM:	1004193417 1 5 PLASTIC 0.0 2.099999904632568 5.099999904632568 cm m			
<u>Construction</u>	Record - Screen				
Screen ID: Layer: Slot: Screen Top I Screen End I Screen Mater Screen Depti Screen Diam Screen Diam	Depth: rial: h UOM: eter UOM:	1004193418 1 20 2.0999999904632568 5.0999999904632568 5 m cm 6.400000095367432	3		
Water Details	i				
Water ID: Layer: Kind Code: Kind: Water Found		1004193416			
Water Found	Depth UOM:	m			
Hole Diamete	<u>er</u>				
Hole ID: Diameter: Depth From: Depth To: Hole Depth U Hole Diamete	IOM: er UOM:	1004193415 21.0 0.0 5.099999904632568 m cm	3		

	Number of Records	Direction/ Distance (m	Elev/Diff) (m)	Site		D
Links						
Bore Hole ID:	10037	701057		Tag No:	A126245	
Depth M:	5.1	101001		Contractor:	6607	
Year Completed				Path:	717\7178068.pdf	
Well Completed		(02/09		Latitude:	43.5643813432248	
Audit No:	Z1305			Longitude:	-80.2578613313849	
<u>10</u> 1	of 1	NE/93.7	335.6 / 1.39	323 SPEEDALE AV GUELPH ON	EE	WWI
Well ID:	72008	873		Flowing (Y/N):		
Construction Da				Flow Rate:		
Use 1st:	Monite	oring		Data Entry Status:		
Use 2nd:		0		Data Src:		
Final Well Statu	s: Obser	rvation Wells		Date Received:	30-Apr-2013 00:00:00	
Water Type:				Selected Flag:	TRUE	
Casing Material	:			Abandonment Rec:		
Audit No:	Z0951			Contractor:	6607	
Tag:	A1416	601		Form Version:	7	
Constructn Met	hod:			Owner:		
Elevation (m):				County:	WELLINGTON	
Elevatn Reliabil				Lot:		
Depth to Bedroo	;k:			Concession:		
Well Depth:				Concession Name:		
Overburden/Bed	Irock:			Easting NAD83:		
Pump Rate:				Northing NAD83:		
Static Water Lev	/ei:			Zone:		
Clear/Cloudy:		GUELPH TOWN	CUID	UTM Reliability:		
<i>Municipality:</i> Site Info:		GOELFH TOWN	Shir			
PDF URL (Map):	;	https://d2khazk8	e83rdv.cloudfront.n	et/moe_mapping/download	s/2Water/Wells_pdfs/720\7200873.	pdf
Additional Deta	<u>il(s) (Map)</u>					
Well Completed	Date:	2012/11/29				
Year Completed		2012				
Depth (m):		6.7				
Latitude:		43.56565211429				
Longitude:		-80.2580438552	235			
Path:		720\7200873.pdf				
Bore Hole Infori	<u>nation</u>					
Bore Hole ID:	10042	278330		Elevation:		
DP2BR:				Elevrc:	17	
Spatial Status:				Zone:	17	
Code OB: Code OB Desc:				East83: North83:	559918.00 4823900.00	
Open Hole:				Org CS:	4823900.00 UTM83	
Cluster Kind:				UTMRC:	4	
Date Completed	I: 29-Nc	ov-2012 00:00:00		UTMRC Desc:	margin of error : 30 m - 100 m	
				Location Method:	wwr	
	SC:	on Water Well R	ecord			
Remarks: Loc Method Des						
Remarks: Loc Method Des Elevrc Desc:) Data:					
Remarks: Loc Method Des Elevrc Desc: Location Source						
Remarks: Loc Method Des Elevrc Desc: Location Source Improvement Lo	ocation Source.					
Remarks: Loc Method Des Elevrc Desc: Location Source	ocation Source					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Overburden a</u> <u>Materials Inte</u>					
Formation ID: Layer:		1004846981 1			
Color: General Coloi Mat1:	r:	6 BROWN 28			
Most Commo Mat2:	n Material:	SAND 06			
Mat2 Desc: Mat3: Mat3 Desc:		SILT			
Formation To Formation En	p Depth: d Depth: d Depth UOM:	0.0 6.699999809265137 m	7		
<u>Annular Spac</u>	e/Abandonment				
Sealing Reco Plug ID:	<u>rd</u>	1004846989			
Layer: Plug From: Plug To: Plug Depth U	ОМ:	2 0.300000011920928 3.200000047683716 m			
<u>Annular Spac</u> Sealing Reco	<u>e/Abandonment</u> r <u>d</u>				
Plug ID: Layer:		1004846988 1			
Plug From: Plug To: Plug Depth U	ОМ:	0.0 0.300000011920928 m	396		
<u>Method of Co</u> <u>Use</u>	nstruction & Well				
Method Cons	truction Code:	1004846987 6 Boring			
Pipe Informat	ion				
Pipe ID: Casing No: Comment: Alt Name:		1004846980 0			
<u>Construction</u>	<u>Record - Casing</u>				
Casing ID: Layer: Material: Open Hole or Depth From: Depth To: Cosing Diagonal		1004846984 1 5 PLASTIC 0.0 3.700000047683716 5.099999904632568			
Casing Diame Casing Diame Casing Depth	eter UOM:	5.099999904632568 cm m	,		

Construction Record - Screen

Screen ID:	1004846985
Layer:	1
Slot:	10
Screen Top Depth:	3.700000047683716
Screen End Depth:	6.699999809265137
Screen Material:	5
Screen Depth UOM:	m
Screen Diameter UOM:	cm
Screen Diameter:	6.40000095367432

Water Details

Water ID:	1004846983
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	5.199999809265137
Water Found Depth UOM:	m

Hole Diameter

Hole ID:	1004846982
Diameter:	21.0
Depth From:	0.0
Depth To:	6.699999809265137
Hole Depth UOM:	m
Hole Diameter UOM:	cm

<u>Links</u>

Bore Hole ID:	1004278330	Tag No:	A141601	
Depth M:	6.7	Contractor:	6607	
Year Completed:	2012	Path:	720\7200873.pdf	
Well Completed Dt:	2012/11/29	Latitude:	43.5656521142972	
Audit No:	Z095135	Longitude:	-80.2580438552235	

<u>11</u> 1 of 1	NE/96.6	335.6 / 1.39	323 SPEEDVALE AV Guelph ON	EE	WWIS
Well ID: Construction Date: Use 1st: Use 2nd: Final Well Status: Water Type: Casing Material: Audit No: Tag: Constructn Method: Elevation (m): Elevatn Reliabilty: Depth to Bedrock: Well Depth: Overburden/Bedrock: Pump Rate: Static Water Level: Clear/Cloudy: Municipality:	7278592 Monitoring Abandoned-Other Z240418 A141601 GUELPH TOWNS	HIP	Flowing (Y/N): Flow Rate: Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec: Contractor: Form Version: Owner: County: Lot: Concession: Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability:	10-Jan-2017 00:00:00 TRUE Yes 6607 7 WELLINGTON	
Site Info:					

PDF URL (Map):

Additional Detail(s) (Map)

Well Completed Date:	2016/11/30
Year Completed:	2016
Depth (m):	
Latitude:	43.5656790442605
Longitude:	-80.2580311418514
Path:	

Bore Hole Information

Bore Hole ID: DP2BR: Spatial Status: Code OB: Code OB Desc: Open Hole: Cluster Kind: Date Completed: Remarks: Loc Method Desc: Elevrc Desc: Location Source Date: Improvement Location S Improvement Location M Source Revision Comme Supplier Comment:	lethod:	Elevation: Elevrc: Zone: East83: North83: Org CS: UTMRC: UTMRC Desc: Location Method:	17 559919.00 4823903.00 UTM83 4 margin of error : 30 m - 100 m wwr
Overburden and Bedrock Materials Interval	<u>c</u>		
Formation ID: Layer: Color: General Color: Mat1: Most Common Material: Mat2: Mat2 Desc: Mat3: Mat3 Desc: Formation Top Depth: Formation End Depth: Formation End Depth UC	1006487454 M : m		
<u>Annular Space/Abandon</u> Sealing Record	<u>ment</u>		
Plug ID: Layer: Plug From: Plug To: Plug Depth UOM:	1006487461 1 m		
Annular Space/Abandon Sealing Record	ment		
Plug ID: Layer: Plug From:	1006487462 1 0.10000000149011612		

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Plug To: Plug Depth U	OM:	6.599999904632568 m			
<u>Method of Co</u> <u>Use</u>	onstruction & Well				
Method Cons	truction Code:	1006487460 6 Boring			
<u>Pipe Informa</u>	<u>tion</u>				
Pipe ID: Casing No: Comment: Alt Name:		1006487453 0			
Construction	Record - Casing				
Casing ID: Layer: Material: Open Hole of Depth From: Depth To: Casing Diam Casing Diam Casing Depth	eter: eter UOM:	1006487457 1 5 PLASTIC 0.10000001490116 3.599999904632568 5.099999904632568 cm m	4		
<u>Construction</u>	Record - Screen				
Screen ID: Layer: Slot: Screen Top I Screen End I Screen Mater Screen Depti Screen Diam	Depth: rial: n UOM: eter UOM:	1006487458 1 10 3.599999904632568 6.599999904632568 5 m cm 6.400000095367432			
Water Details	1				
Water ID: Layer: Kind Code: Kind: Water Found Water Found		1006487456 1 8 Untested 5.099999904632568 m			
Hole Diamete	<u>er</u>				
Hole ID: Diameter: Depth From: Depth To: Hole Depth U Hole Diamete		1006487455 21.0 0.0 6.599999904632568 m cm			

<u>Links</u> Bara Hala ID:							
Dava Hala ID:							
Bore Hole ID: Depth M:		1006330097	7		Tag No: Contractor:	A141601 6607	
Year Completed		2016			Path:	10 5050700 1 10005	
Well Completed Audit No:	I Dt:	2016/11/30			Latitude:	43.5656790442605	
<i>Audit NO:</i>		Z240418			Longitude:	-80.2580311418514	
<u>12</u> 1	of 2		NNE/103.7	334.7 / 0.58	320 Speedvale Ave E Guelph ON N1E 1N2		EHS
Order No:		2013040304	42		Nearest Intersection:		
Status:		С			Municipality:		
Report Type:		Site Report			Client Prov/State:	ON	
Report Date:		04-APR-13			Search Radius (km):	.001	
Date Received:		03-APR-13			X:	0	
Previous Site Na					Y:	0	
Lot/Building Siz Additional Info		Fi	ire Insur. Maps and	d/or Site Plans; C	City Directory; Aerial Photos		
<u>12</u> 2	of 2		NNE/103.7	334.7 / 0.58	ON		WWIS
Well ID:		7201213			Flowing (Y/N):		
Construction Da	ate:				Flow Rate:		
Use 1st:					Data Entry Status:	Yes	
Use 2nd:					Data Src:		
Final Well Statu	is:				Date Received:	03-May-2013 00:00:00	
Water Type:					Selected Flag:	TRUE	
Casing Material	l:	_			Abandonment Rec:		
Audit No:		C20826			Contractor:	6607	
Tag:		A141471			Form Version:	8	
Constructn Met	chod:				Owner:		
Elevation (m):					County:	WELLINGTON	
Elevatn Reliabil	•				Lot:		
Depth to Bedroo	CK:				Concession:		
Well Depth:					Concession Name:		
Overburden/Bed	arock:				Easting NAD83:		
Pump Rate: Statio Water Lev	val				Northing NAD83:		
Static Water Lev	ver:				Zone:		
Clear/Cloudy: Municipality:		G	UELPH TOWNSH	IID	UTM Reliability:		
Site Info:		G	JUELPH TOWINSH				
PDF URL (Map):	15						
Additional Deta	il(s) (Map)					
Well Completed	d Date:	21	013/03/07				
Year Completed			013				
Depth (m):							
Latitude:		43	3.5659794513924				
Longitude:		-8	80.2585351530019)			
Path:							
Bore Hole Infor	mation						
Bore Hole ID:		1004284772	2		Elevation:		
DP2BR:					Elevrc:		
Spatial Status:					Zone:	17	
Code OB:					East83:	559878.00	
Code OB Desc:					North83:	4823936.00	

Map Key	Number Records		Direction/ Distance (m)	Elev/Diff (m)	Site		D
Open Hole:			. ,		Org CS:	UTM83	
Cluster Kind:		07 Max 004	0.00.00.00		UTMRC:	4	
Date Complete	ed:	07-Mar-201	3 00:00:00		UTMRC Desc:	margin of error : 30 m - 100 m	
Remarks: Loc Method De	esc:	Or	n Water Well Reco	ord	Location Method:	wwr	
Elevrc Desc:							
Location Sour							
mprovement l mprovement l Source Revisio	Location M	lethod:					
Source Revision Supplier Comr		enc.					
<u>Links</u>							
Bore Hole ID:		1004284772	2		Tag No:	A141471	
Depth M:		0040			Contractor:	6607	
Year Complete		2013			Path:	40 505070 454000 4	
Well Complete	d Dt:	2013/03/07			Latitude:	43.5659794513924	
Audit No:		C20826			Longitude:	-80.2585351530019	
<u>13</u>	1 of 1		NE/104.3	335.6 / 1.39	323 SPEEDUALE GUELPH ON		ww
Well ID:		7200872			Flowing (Y/N):		
Construction L	Date:				Flow Rate:		
Use 1st:		Monitoring			Data Entry Status:		
Use 2nd:		•			Data Src:		
Final Well Stat	us:	Observation	Wells		Date Received:	30-Apr-2013 00:00:00	
Water Type:					Selected Flag:	TRUE	
Casing Materia	al:				Abandonment Rec:		
Audit No:		Z095137			Contractor:	6607	
Tag:		A134058			Form Version:	7	
Constructn Me	ethod:				Owner:		
Elevation (m):					County:	WELLINGTON	
Elevatn Reliab	ilty:				Lot:		
Depth to Bedro	ock:				Concession:		
Well Depth:					Concession Name:		
Overburden/Be	edrock:				Easting NAD83:		
Pump Rate:					Northing NAD83:		
Static Water Lo	evel:				Zone:		
Clear/Cloudy:					UTM Reliability:		
Municipality:		G	UELPH TOWNSH	IIP			
Site Info:							
PDF URL (Map):	ht	tps://d2khazk8e8	3rdv.cloudfront.ne	et/moe_mapping/downloads	/2Water/Wells_pdfs/720\7200872.pdf	
Additional Det	<u>ail(s) (Map</u>	2					
Well Complete		20	012/11/29				
Year Complete	ed:		012				
Depth (m):		6.					
Latitude:			3.5657144954783				
Longitude:			0.257944026857	3			
Path:		72	20\7200872.pdf				
Bore Hole Info	<u>rmation</u>						
Bore Hole ID:		1004278327	7		Elevation:		
DP2BR:					Elevrc:		
Spatial Status:	•				Zone:	17	
					East83:	559926.00	
Code OB:							

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Open Hole:				Org CS:	UTM83	
Cluster Kind:				UTMRC:	4	
Date Complet	ed: 29-Nov-2	2012 00:00:00		UTMRC Desc:	margin of error : 30 m - 100 m	
Remarks:				Location Method:	wwr	
Loc Method D	Desc:	on Water Well Reco	rd			
Elevrc Desc:						
Location Sou						
	Location Source:					
	Location Method:					
	ion Comment:					
Supplier Com	ment:					
<u>Overburden a</u> <u>Materials Inte</u>						
Formation ID:	,	1004846970				
Layer:		1				
Color:		6				
General Color	r:	BROWN				
Mat1:		28				
Most Commo	n Material:	SAND				
Mat2:		06				
Mat2 Desc:		SILT				
Mat3:						
Mat3 Desc:	n Danéha	0.0				
Formation To Formation En		6.699999809265137	,			
	d Depth UOM:	m				
	a Depar Com.					
<u>Annular Spac</u> Sealing Recol	<u>e/Abandonment</u> r <u>d</u>					
Plug ID:		1004846978				
Layer:		1				
Plug From:		0.0				
Plug To:		0.300000011920928	396			
Plug Depth U	OM:	m				
<u>Annular Spac</u> <u>Sealing Reco</u> l	<u>e/Abandonment</u> r <u>d</u>					
Plug ID:		1004846979				
Layer:		2				
Plug From:		0.300000011920928	396			
Plug To:		3.200000047683716	6			
Plug Depth U	ОМ:	m				
<u>Method of Co</u> <u>Use</u>	nstruction & Well					
		40040405=				
Method Const		1004846977				
	truction Code:	6 Doring				
Method Const Other Method	truction: Construction:	Boring				
	Construction.					
Pipe Informat	ion					
Pipe ID:		1004846969				
Casing No:		0				
Comment:						
Alt Name:						

Construction Record - Casing

Casing ID:	1004846974
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	0.0
Depth To:	3.700000047683716
Casing Diameter:	6.099999904632568
Casing Diameter UOM:	cm
Casing Depth UOM:	m

Construction Record - Screen

Screen ID:	1004846975
Layer:	1
Slot:	10
Screen Top Depth:	3.069999933242798
Screen End Depth:	6.699999809265137
Screen Material:	5
Screen Depth UOM:	m
Screen Diameter UOM:	cm
Screen Diameter:	6.400000095367432

Water Details

Water ID:	1004846973
Layer:	2
Kind Code:	
Kind:	
Water Found Depth:	
Water Found Depth UOM:	m

Water Details

Water ID:	1004846972
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	5.199999809265137
Water Found Depth UOM:	m

Hole Diameter

Hole ID:	1004846971
Diameter:	21.0
Depth From:	0.0
Depth To:	6.699999809265137
Hole Depth UOM:	m
Hole Diameter UOM:	cm

<u>Links</u>

Bore Hole ID:	1004278327	Tag No:	A134058
Depth M:	6.7	Contractor:	6607
Year Completed:	2012	Path:	720\7200872.pdf
Well Completed Dt:	2012/11/29	Latitude:	43.5657144954783
Audit No:	Z095137	Longitude:	-80.2579440268573

Map Key	Numbe Record		Direction/ Distance (m)	Elev/Diff (m)	Site		
<u>14</u>	1 of 1		NE/105.8	335.6 / 1.39	323 SPEEDVALE AV Guelph ON	EE	w
Nell ID:		7278593			Flowing (Y/N):		
Construction	Date:	•••			Flow Rate:		
Jse 1st: Jse 2nd:		Monitoring	l		Data Entry Status: Data Src:		
Final Well Sta	tus:	Abandone	d-Other		Date Received:	10-Jan-2017 00:00:00	
Vater Type:					Selected Flag:	TRUE	
Casing Materi Audit No:	ial:	Z240417			Abandonment Rec: Contractor:	Yes 6607	
ag:		A134058			Form Version:	7	
Constructn M					Owner:		
Elevation (m): Elevatn Relial					County: Lot:	WELLINGTON	
Depth to Bedi	•				Concession:		
Vell Depth:					Concession Name:		
Overburden/E Pump Rate:	Bedrock:				Easting NAD83: Northing NAD83:		
Static Water L	.evel:				Zone:		
Clear/Cloudy:					UTM Reliability:		
Municipality: Site Info:			GUELPH TOWNSH	IIP			
PDF URL (Maj	p):						
Additional De	tail(s) (Ma	<u>p)</u>					
Vell Complete		:	2016/11/30				
ear Complet	ed:	:	2016				
Depth (m): .atitude:			43.5657506699723				
ongitude:			-80.2579683484704				
Path:							
Bore Hole Info	ormation						
Bore Hole ID:		10063301	00		Elevation:		
OP2BR: Spatial Status					Elevrc: Zone:	17	
Code OB:					East83:	559924.00	
Code OB Des	с:				North83:	4823911.00	
Open Hole: Cluster Kind:					Org CS: UTMRC:	UTM83 4	
Date Complet		30-Nov-20	16 00:00:00		UTMRC Desc:	margin of error : 30 m - 100 m	
Remarks:					Location Method:	wwr	
.oc Method D Elevrc Desc:	Jesc:		on Water Well Reco	ord			
ocation Sou							
mprovement							
mprovement Source Revis							
Supplier Com							
<u>Overburden a</u> Materials Inte		<u>ck</u>					
			1000107101				
Formation ID: Layer:			1006487464				
Color:							
Color: General Coloi Mat1:	r:						

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DE
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation To					
Formation Er					
Formation Er	nd Depth UOM:	m			
<u>Annular Spac</u> Sealing Reco	<u>ce/Abandonment</u> ord				
Plug ID:		1006487471			
Layer:		1			
Plug From:					
Plug To:					
Plug Depth U	IOM:	m			
<u>Annular Spac</u> <u>Sealing Reco</u>	<u>ce/Abandonment</u> ord				
Plug ID:		1006487472			
Layer:		1000407472			
Plug From:		0.100000014901161	2		
Plug To:		6.599999904632568	-		
Plug Depth U	IOM:	m			
<u>Method of Co Use</u>	onstruction & Well				
Method Cons	struction ID:	1006487470			
	struction Code:	6			
Method Cons Other Method	struction: d Construction:	Boring			
Pipe Informa	<u>tion</u>				
Pipe ID:		1006487463			
Casing No:		0			
Comment:		·			
Alt Name:					
Construction	Record - Casing				
Casing ID:		1006487467			
Layer: Motoriol		1			
Material:	. Motorial				
Open Hole or		PLASTIC 0.1000000014901161	2		
Depth From: Depth To:		3.5999999046325684			
Depth To: Casing Diam	eter:	5.099999904632568	r		
Casing Diam	eter UOM:	CM			
Casing Depth		m			
<u>Construction</u>	Record - Screen				
Screen ID:		1006487468			
Layer:		1			
Slot:		10			
Screen Top L	Depth:	3.5999999046325684	ļ		
Screen End L		6.599999904632568			
Screen Mater	riai:	5			
	originfo com l En	vironmental Risk Infor		_	Order No: 23060200052

Map Key	Number Records		Elev/Diff) (m)	Site		DB
Screen Deptl Screen Diam Screen Diam	eter UOM:	m cm 6.400000095367	432			
Water Details	<u>S</u>					
Water ID: Layer: Kind Code: Kind: Water Found Water Found		1006487466 1 8 Untested 4.800000190734 //: m	863			
Hole Diamete	er					
Hole ID: Diameter: Depth From: Depth To: Hole Depth U Hole Diamete	JOM:	1006487465 21.0 0.0 6.5999999904632 m cm	568			
<u>Links</u>						
Bore Hole ID Depth M: Year Comple Well Comple Audit No:	eted:	1006330100 2016 2016/11/30 Z240417		Tag No: Contractor: Path: Latitude: Longitude:	A134058 6607 43.5657506699723 -80.2579683484704	
<u>15</u>	1 of 26	NNE/115.0	334.7 / 0.58	BEAVER FUELS ATTENTION: MI 324 SPEEDVAL GUELPH ON N1	EAVE	PRT
Location ID: Type: Expiry Date: Capacity (L): Licence #:		5649 retail 1995-05-31 81600 0048126001				
<u>15</u>	2 of 26	NNE/115.0	334.7 / 0.58	BEAVER FUELS 324 SPEEDVAL GUELPH ON N1	EAVEE	RST
Headcode: Headcode De Phone: List Name: Description:		1186800 Service Stations- 5198248233	Gasoline, Oil & Natu	ıral Gas		
<u>15</u>	3 of 26	NNE/115.0	334.7 / 0.58	1348083 ONTAF 324 SPEEDVAL GUELPH ON N1		FSTH
License Issu Tank Status: Tank Status Operation Ty	As Of:	3/2/2006 Licensed August 2007 Retail Fuel Outlet	:			
	erisinfo co	m Environmental Risk Ir	formation Service	26	Order No:	23060200052

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DE
Facility Type	:	Gasoline Station - F	ull Serve		
<u>Details</u> Status: Year of Insta		Removed 1984			
Corrosion Pr Capacity: Tank Fuel Ty		22730 Liquid Fuel Single V	Vall UST - Gasoline		
Status: Year of Insta Corrosion Pr		Removed 1984			
Capacity: Tank Fuel Ty		9000 Liquid Fuel Single V	Vall UST - Gasoline		
Status: Year of Insta Corrosion Pr		Removed 1984			
Capacity: Tank Fuel Ty		13600 Liquid Fuel Single V	Vall UST - Gasoline		
Status: Year of Insta Corrosion Pr		Removed 1984			
Capacity: Tank Fuel Ty		22730 Liquid Fuel Single V	Vall UST - Gasoline		
Status: Year of Instal Correction Br		Removed 1984			
Corrosion Protection: Capacity: Tank Fuel Type:		13600 Liquid Fuel Single V	Vall UST - Gasoline		
<u>15</u>	4 of 26	NNE/115.0	334.7 / 0.58	1348083 ONTARIO LTD O/A GAS STN 324 SPEEDVALE AV E GUELPH ON N1E 1N2	FSTH
License Issu Tank Status: Tank Status Operation Ty Facility Type	As Of: pe:	3/2/2006 10:48:00 A Licensed December 2008 Retail Fuel Outlet Gasoline Station - F			
<u>Details</u> Status: Year of Instal		Active 1996			
Corrosion Pr Capacity: Tank Fuel Ty		50000 Liquid Fuel Double '	Wall UST - Gasoline		
Status: Year of Insta Corrosion Pr		Active 1996			
Capacity: Tank Fuel Ty	pe:	25000 Liquid Fuel Double ^v	Wall UST - Gasoline		
Status: Year of Insta Corrosion Pr		Active 1996			
Capacity: Tank Fuel Ty	pe:	25000 Liquid Fuel Double '	Wall UST - Gasoline		

Map Key	Numbe Record		Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>15</u>	5 of 26		NNE/115.0	334.7 / 0.58	1348083 ONTARIO LTD O/A GAS STN 324 SPEEDVALE AV E GUELPH ON	DTNK
<u>Delisted Ex</u> j <u>Facilities</u>	pired Fuel S	afety_				
Instance No Status: Instance ID: Instance Cri Instance Cri Instance Ins Item Descri Manufacture Model: Serial No: ULC Standa Quantity: Unit of Meas Overfill Prot Creation Da Next Period TSSA Base TSSAMax H TSSA Recid TSSA Period TSSA Period TSSA Recid TSSA Recid TSSA Period TSSA Period TSSA Recid TSSA Period TSSA Period	pe: eation Dt: stall Dt: ption: er: ard: sure: t Type: te: Sched Cycle lazard Rank Based Perio ne of Directi dic Exempt: tory Interval Insp Interval Tolerance: am Area 2: am Area 2: urce:	1: dic Yn: ives: I:)		Expired Date: Max Hazard Rank: Facility Location: Facility Type: Fuel Type 2: Fuel Type 3: Panam Related: Panam Venue Nm: External Identifier: Item: Piping Steel: Piping Galvanized: Tank Single Wall St: Piping Underground: Tank Underground: Source:	
<u>15</u>	6 of 26		NNE/115.0	334.7 / 0.58	Shell Canada Products 324 Speedvale Ave E Guelph ON N1E 1N2	GEN
Generator N SIC Code: SIC Descrip Approval Ye PO Box No: Country: Status: Co Admin: Choice of C Phone No A Contaminate MHSW Facili	tion: ears: ontact: dmin: ed Facility:		ON8412668 447110 Gasoline Stations v 2010	vith Convenience	Stores	
<u>Detail(s)</u>						
Waste Class Waste Class			221 LIGHT FUELS			

Map Key	Number Records		Direction/ Distance (m)	Elev/Diff (m)	Site		DB
<u>15</u>	7 of 26		NNE/115.0	334.7 / 0.58	Shell Canada Produc 324 Speedvale Ave E Guelph ON N1E 1N2	Ē	GEN
Generator No SIC Code: SIC Descripti Approval Yea PO Box No: Country: Status: Co Admin: Choice of Co. Phone No Ad Contaminated MHSW Facilit	on: ars: ntact: min: d Facility:		ON8412668 447110 Gasoline Stations w 2011	vith Convenience	Stores		
<u>Detail(s)</u>							
Waste Class: Waste Class			221 LIGHT FUELS				
<u>15</u>	8 of 26		NNE/115.0	334.7 / 0.58	1348083 ONTARIO L 324 SPEEDVALE AV ON	TD O/A GAS STN ' E GUELPH N1E 1N2 ON CA	DTNK
<u>Delisted Expi</u> Facilities	ired Fuel Sa						
Instance No: Status: Instance ID:		1158882 EXPIREE			Expired Date: Max Hazard Rank: Facility Location:	NULL 324 SPEEDVALE AV E GUELPH N	1E 1N2 C
Instance Type Instance Creat Instance Insta Item Descript Manufacturer Model: Serial No: ULC Standard Quantity: Unit of Measu Overfill Prot 1 Creation Date Next Periodic	ation Dt: all Dt: tion: ': d: d: Ire: Type: 2:	6/2/2009 FS Liquic NULL NULL NULL 1 EA NULL	0 8:15:15 PM I Fuel Tank 1:26:10 AM		Facility Type: Fuel Type 2: Fuel Type 3: Panam Related: Panam Venue Nm: External Identifier: Item: Piping Steel: Piping Galvanized: Tank Single Wall St: Piping Underground: Tank Underground: Source:	CA FS LIQUID FUEL TANK NULL NULL NULL NULL NULL	
TSSA Base S TSSA Base S TSSA Max Ha TSSA Risk Ba TSSA Volume TSSA Periodi TSSA Periodi TSSA Recd I TSSA Recd T TSSA Progra Description: Original Sour Record Date:	ched Cycle zard Rank ased Perioc of Directiv c Exempt: ory Interval: olerance: m Area: m Area 2: cce:	e 2: 1: dic Yn: ves:	NULL NULL NULL NULL NULL NULL NULL NULL				
<u>15</u>	9 of 26		NNE/115.0	334.7 / 0.58	1348083 ONTARIO L 324 SPEEDVALE AV	TD O/A GAS STN ' E GUELPH N1E 1N2 ON CA	DTNK

Order No: 23060200052

istance (m)	Reco	1)		
			ON	
	ired Fuel			
			Expired Date: Max Hazard Rank:	NULL
			Facility Location:	324 SPEEDVALE AV E GUELPH N1E 1N2 (CA
	e:		Facility Type:	FS LIQUID FUEL TANK
5:15 PM	ation Dt:		Fuel Type 2:	Gasoline
Tank	all Dt: tion:		Fuel Type 3: Panam Related:	NULL NULL
Tank	r:		Panam Venue Nm:	NULL
	•		External Identifier:	NULL
			Item:	
	d:		Piping Steel:	
			Piping Galvanized:	
	ure: Turno:		Tank Single Wall St:	
13 AM	Type: a:		Piping Underground: Tank Underground:	
	=. Str DT:		Source:	FS Liquid Fuel Tank
L	ched Cy		0001002	
L	zard Rar			
L	ased Per			
L	e of Dire			
L	ic Exemp			
L L	ory Interv nsp Inter			
L	olerance			
L	m Area:			
L	m Area 2			
		ment: 25KL	Regular / 25kL Premium]	
UL-2020	Original Source: Record Date:			
0L-2020				
IE/115.0	10 of 26	4.7 / 0.58	Shell Canada Product 324 Speedvale Ave E Guelph ON N1E 1N2	ts GEN
412669				
412668 110): 			
oline Stations	ion:	onvenience	Stores	
2	ars:			
	ntact:			
	maci. Imin:			
	d Facility ty:			
IT FUELS	Name:			
IE/115.0	11 of 26	4.7 / 0.58	Shell Canada Product 324 Speedvale Ave E	ts GEN
IE/	Name: 11 of 26	(115.0 334	(115.0 334.7 / 0.58	/115.0 334.7 / 0.58 Shell Canada Produci

	Number o Records	f Directio Distanc		Site	DB
Generator No: SIC Code:		ON8412668 447110	3		
SIC Description Approval Years PO Box No: Country:		2013			
Status: Co Admin: Choice of Cont Phone No Adm Contaminated I	nin: Facility:				
MHSW Facility:					
<u>Detail(s)</u>					
Waste Class: Waste Class Na	ame:	221 LIGHT FUE	LS		
Waste Class: Waste Class Na	ame:	251 OIL SKIMM	INGS & SLUDGES		
<u>15</u> 1	12 of 26	NNE/115.0	334.7/0.58	1348083 ONTARIO I 324 SPEEDVALE A ON	LTD O/A GAS STN V E GUELPH N1E 1N2 ON CA DTNK
<u>Facilities</u> Instance No: Status: Instance ID:		0771081 XPIRED		Expired Date: Max Hazard Rank: Facility Location:	NULL 324 SPEEDVALE AV E GUELPH N1E 1N2 C CA
Instance Type: Instance Creati Instance Install	ion Dt: 7 I Dt: 6	/19/2000 8:15:15 PN /2/2009	I	Facility Type: Fuel Type 2: Fuel Type 3:	FS LIQUID FUEL TANK NULL NULL
Item Descriptio Manufacturer: Model: Serial No:	N N	S Liquid Fuel Tank ULL ULL ULL		Panam Related: Panam Venue Nm: External Identifier:	NULL NULL NULL
Serial No: ULC Standard: Quantity: Unit of Measure	N 1	ULL		ltem: Piping Steel: Piping Galvanized: Tank Single Wall St:	
Overfill Prot Ty Creation Date: Next Periodic S	. 7	ULL /5/2009 1:20:52 AM /ULL		Piping Underground: Tank Underground: Source:	FS Liquid Fuel Tank
TSSA Base Scl TSSAMax Haza TSSA Risk Bas	ard Rank 1:	NULL			
TSSA Volume o TSSA Periodic TSSA Statutory	Exempt:	s: NULL NULL NULL			
TSSA Recd Ins TSSA Recd Tol TSSA Program	p Interva: lerance:	NULL NULL NULL			
TSSA Program Description:	Area 2:	NULL Removed in EXP	1996		
Original Source Record Date:	σ.	31-JUL-202	0		
<u>15</u> 1	13 of 26	NNE/115.0	334.7/0.58	1348083 ONTARIO I 324 SPEEDVALE A	LTD O/A GAS STN V E GUELPH N1E 1N2 ON CA DTNF

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Order No: 23060200052

Мар Кеу	Number Records		Direction/ Distance (m)	Elev/Diff (m)	Site	DB
					ON	
Delisted Expir Facilities	red Fuel Sa	<u>nfety</u>				
		11252014			Free inc. of Deter	
Instance No: Status: Instance ID:		11353914 EXPIRED			Expired Date: Max Hazard Rank: Facility Location:	NULL 324 SPEEDVALE AV E GUELPH N1E 1N2 O
Instance Type Instance Crea Instance Insta Item Descripti Manufacturer Model: Serial No: ULC Standarc Quantity: Unit of Measu Overfill Prot 1 Creation Date Next Periodic TSSA Base So TSSA Mask Ba TSSA Risk Ba TSSA Recd In TSSA Recd In TSSA Recd To TSSA Program TSSA Program Description:	ation Dt: all Dt: tion: ': d: Type: e: e Str DT: cched Cycle zard Rank f ased Period e of Directiv ic Exempt: ory Interval: olerance: m Area:	6/2/2009 FS Liquid NULL NULL NULL 1 EA NULL 7/5/2009 NULL 2: 1: fic Yn: yes:	8:15:15 PM Fuel Tank 1:24:50 AM NULL NULL NULL NULL NULL NULL NULL NUL		Facility Type: Fuel Type 2: Fuel Type 3: Panam Related: Panam Venue Nm: External Identifier: Item: Piping Steel: Piping Galvanized: Tank Single Wall St: Piping Underground: Tank Underground: Source:	CA FS LIQUID FUEL TANK NULL NULL NULL NULL FS Liquid Fuel Tank
Driginal Source Record Date: <u>15</u>			EXP 31-JUL-2020 <i>NNE/115.0</i>	334.7 / 0.58	1348083 ONTARIO LI 324 SPEEDVALE AV ON	TD O/A GAS STN E GUELPH N1E 1N2 ON CA DTNK
<u>Delisted Expi</u> Facilities Instance No: Status: Instance ID:	ired Fuel Sa	<u>ifety</u> 11353870 EXPIRED			Expired Date: Max Hazard Rank: Facility Location:	NULL 324 SPEEDVALE AV E GUELPH N1E 1N2 O
Instance Type Instance Crea Instance Insta Item Descript Manufacturer. Model: Serial No: ULC Standard	ation Dt: all Dt: tion: ':	6/2/2009	98:15:15 PM Fuel Tank		Facility Type: Fuel Type 2: Fuel Type 3: Panam Related: Panam Venue Nm: External Identifier: Item: Piping Steel: Piping Galvanized:	CA FS LIQUID FUEL TANK NULL NULL NULL NULL NULL

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	D
TSSAMax Haza TSSA Risk Bas TSSA Volume TSSA Periodic TSSA Statutor TSSA Recd Ins TSSA Recd To TSSA Program	ard Rank 1: sed Periodic of Directives Exempt: y Interval: sp Interva: olerance: 1 Area:	NULL Yn: NULL : NULL NULL NULL NULL NULL NULL NULL NULL			
Description: Original Sourc Record Date:	e:	Removed in 1996 EXP 31-JUL-2020			
	15 of 26	NNE/115.0	334.7 / 0.58	1348083 ONTARIO L 324 SPEEDVALE AV ON	.TD O/A GAS STN / E GUELPH N1E 1N2 ON CA DTN
<u>Delisted Expire</u> Facilities	ed Fuel Safei	t <u>v</u>			
Instance No: Status: Instance ID:		1353893 XPIRED		Expired Date: Max Hazard Rank: Facility Location:	NULL 324 SPEEDVALE AV E GUELPH N1E 1N2
Instance Type: Instance Creat Instance Instal Item Descriptio Manufacturer: Model: Serial No: ULC Standard: Quantity: Unit of Measur Overfill Prot Ty Creation Date:	tion Dt: 7/ II Dt: 6/ on: FS N N S N S N N S N S N N S N N S N N N S N	19/2000 8:15:15 PM 2/2009 S Liquid Fuel Tank ULL ULL ULL ULL A ULL 5/2009 1:24:54 AM		Facility Type: Fuel Type 2: Fuel Type 3: Panam Related: Panam Venue Nm: External Identifier: Item: Piping Steel: Piping Steel: Piping Galvanized: Tank Single Wall St: Piping Underground: Tank Underground:	CA FS LIQUID FUEL TANK NULL NULL NULL NULL NULL
Next Periodic S TSSA Base Sc. TSSA Max Haza TSSA Risk Bas TSSA Volume (TSSA Periodic TSSA Periodic TSSA Recd Ino TSSA Recd To TSSA Program Description: Original Sourc Record Date:	Str DT: N hed Cycle 2: ard Rank 1: sed Periodic of Directives Exempt: y Interval: sp Interva: herance: h Area 2:	ULL NULL NULL Yn: NULL		Source:	FS Liquid Fuel Tank
<u>15</u>	16 of 26	NNE/115.0	334.7 / 0.58	1348083 ONTARIO L 324 SPEEDVALE AV ON	.TD O/A GAS STN DTN / E GUELPH N1E 1N2 ON CA DTN
<u>Delisted Expire</u> Facilities	ed Fuel Safei	t <u>v</u>			
Instance No: Status: Instance ID:		1353934 XPIRED		Expired Date: Max Hazard Rank: Facility Location:	NULL 324 SPEEDVALE AV E GUELPH N1E 1N2
76	erisinfo.com	Environmental Risk Info	rmation Service	26	Order No: 2306020005

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Мар Кеу	Number Records		Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Instance Type Instance Creat Instance Creat Instance Insta Item Descript Manufacturer Model: Serial No: ULC Standard Quantity: Unit of Measu Overfill Prot Creation Date Next Periodic TSSA Base S TSSAMax Ha TSSA Volume TSSA Periodic	ation Dt: all Dt: tion: ': d: ure: Type: >: Str DT: ched Cycle zard Rank ' ased Perioc e of Directiv	6/2/2009 FS Liquic NULL NULL NULL 1 EA NULL 7/5/2009 NULL 2: 1: fic Yn:	0 8:15:15 PM d Fuel Tank 1:24:55 AM NULL NULL NULL NULL NULL NULL		Facility Type: Fuel Type 2: Fuel Type 3: Panam Related: Panam Venue Nm: External Identifier: Item: Piping Steel: Piping Galvanized: Tank Single Wall St: Piping Underground: Tank Underground: Source:	CA FS LIQUID FUEL TANK NULL NULL NULL NULL FS Liquid Fuel Tank	
TSSA Statuto TSSA Recd II TSSA Recd T TSSA Progra Description: Original Sour Record Date:	ory Interval: nsp Interva olerance: m Area: m Area 2: rce:		NULL NULL NULL NULL Removed in 1996 EXP 31-JUL-2020				
<u>15</u>	17 of 26		NNE/115.0	334.7 / 0.58	Shell Canada Products 324 Speedvale Ave E Guelph ON N1E 1N2	S	GEN
Generator No SIC Code: SIC Descripti Approval Yea PO Box No: Country: Status: Co Admin: Choice of Co. Phone No Ad Contaminated MHSW Facilit	ion: ars: ntact: Imin: d Facility:		ON8412668 447110 447110 2016 Canada Akruti Atawala CO_ADMIN 416-635-5882 Ext.5 No No	5839			
<u>Detail(s)</u> Waste Class:			221				
Waste Class Waste Class: Waste Class	Name:		LIGHT FUELS 251 OIL SKIMMINGS &	SLUDGES			
<u>15</u>	18 of 26		NNE/115.0	334.7 / 0.58	Shell Canada Products 324 Speedvale Ave E Guelph ON N1E 1N2	5	GEN
Generator No SIC Code: SIC Descripti Approval Yea PO Box No: Country:	on:		ON8412668 447110 447110 2015 Canada				

Map Key	Numbel Record		rection/ stance (m)	Elev/Diff (m)	Site		DB
Status: Co Admin: Choice of Cor Phone No Adu Contaminated MHSW Facilit	min: d Facility:	CO_A	i Atawala ADMIN 335-5882 Ext.55	839			
<u>Detail(s)</u>							
Waste Class: Waste Class I		251 OIL S	KIMMINGS & S	SLUDGES			
Waste Class: Waste Class I		221 LIGH	T FUELS				
<u>15</u>	19 of 26	NNE	E/115.0	334.7 / 0.58	Shell Canada Product 324 Speedvale Ave E Guelph ON N1E 1N2	ts	GEN
Generator No SIC Code: SIC Descriptic Approval Yea PO Box No: Country: Status: Co Admin: Choice of Con Phone No Add Contaminated MHSW Facility	on: rs: ntact: min: d Facility:	4471 [,] 4471 [,] 2014 Cana Akruti CO_ <i>F</i>	10				
<u>Detail(s)</u>							
Waste Class: Waste Class I		251 OIL S	KIMMINGS & S	SLUDGES			
Waste Class: Waste Class I		221 LIGH	T FUELS				
<u>15</u>	20 of 26	NNE	E/115.0	334.7 / 0.58	1348083 ONTARIO LT 324 SPEEDVALE AV I ON	D O/A GAS STN E GUELPH N1E 1N2 ON CA	FST
Instance No: Status: Cont Name: Instance Type Item: Item Descripti Tank Type: Install Date: Install Year: Years in Servi Model: Description: Capacity: Tank Material Corrosion Pro Overfill Protee Facility Type: Parent Facility Facility Locat	ion: ice: ': otect: ct: y Type:	10771081 FS Liquid Fuel T Liquid Fuel Sing 6/2/2009 1984 NULL 22730 Steel Internally Lined FS Lie	gle Wall UST		Manufacturer: Serial No: Ulc Standard: Quantity: Unit of Measure: Fuel Type: Fuel Type2: Fuel Type3: Piping Steel: Piping Galvanized: Tanks Single Wall St: Piping Underground: No Underground: Panam Related: Panam Venue:	Gasoline NULL NULL	

	r of Is	Direction/ Distance (m)	Elev/Diff (m)	Site		DE
Device Installed Location	on: 32	24 SPEEDVALE AV	/ E GUELPH N1E	1N2 ON CA		
Liquid Fuel Tank Detail	<u>s</u>					
Overfill Protection: Owner Account Name: Item:		348083 ONTARIO S LIQUID FUEL TA		I		
<u>15</u> 21 of 26		NNE/115.0	334.7 / 0.58	1348083 ONTARIO LT 324 SPEEDVALE AV I ON	D O/A GAS STN E GUELPH N1E 1N2 ON CA	FST
Instance No: Status: Cont Name: Instance Type: Item:	11353914	uel Teele		Manufacturer: Serial No: Ulc Standard: Quantity: Unit of Measure:	Quantina	
Item Description: Tank Type: Install Date: Install Year: Years in Service: Model: Description: Capacity:	FS Liquid Fi Liquid Fuel 6/2/2009 1984 NULL 22730	uei Tank Single Wall UST		Fuel Type: Fuel Type2: Fuel Type3: Piping Steel: Piping Galvanized: Tanks Single Wall St: Piping Underground: No. Wordsreaments	Gasoline NULL NULL	
Tank Material: Corrosion Protect: Overfill Protect:	Steel Internally Li	ned S Liquid Fuel Tank		No Underground: Panam Related: Panam Venue:		
Facility Type:						
Pacinity Type: Parent Facility Type: Facility Location: Device Installed Location		24 SPEEDVALE AV	/ E GUELPH N1E	1N2 ON CA		
Parent Facility Type: Facility Location:	on: 32	24 SPEEDVALE AV	/ E GUELPH N1E	1N2 ON CA		
Parent Facility Type: Facility Location: Device Installed Location Liquid Fuel Tank Detail Overfill Protection: Owner Account Name:	on: 32 <u>s</u>	24 SPEEDVALE AV 348083 ONTARIO S LIQUID FUEL TA	LTD O/A GAS STN			
Parent Facility Type: Facility Location: Device Installed Location Liquid Fuel Tank Detail Overfill Protection: Owner Account Name:	on: 32 <u>s</u> 13 Fi	348083 ONTARIO	LTD O/A GAS STN	1348083 ONTARIO LT	D O/A GAS STN E GUELPH N1E 1N2 ON CA	FST
Parent Facility Type: Facility Location: Device Installed Location Liquid Fuel Tank Detail Overfill Protection: Owner Account Name: Item: <u>15</u> 22 of 26 Instance No: Status: Cont Name: Instance Type:	on: 32 <u>s</u> 13 Fi	348083 ONTARIO S LIQUID FUEL TA	LTD O/A GAS STN NK	1348083 ONTARIO LT 324 SPEEDVALE AV I ON Manufacturer: Serial No: Ulc Standard: Quantity:		FST
Parent Facility Type: Facility Location: Device Installed Location Liquid Fuel Tank Detail Overfill Protection: Owner Account Name: Item: <u>15</u> 22 of 26 Instance No: Status: Cont Name:	on: 32 § 11 53 11353893 FS Liquid Fi	348083 ONTARIO S LIQUID FUEL TA NNE/115.0	LTD O/A GAS STN NK	1348083 ONTARIO LT 324 SPEEDVALE AV I ON Manufacturer: Serial No: Ulc Standard:		FST
Parent Facility Type: Facility Location: Device Installed Location Device Installed Location Liquid Fuel Tank Detail Overfill Protection: Owner Account Name: Item: 15 22 of 26 Instance No: Status: Cont Name: Instance Type: Item: Item Description: Tank Type: Install Date: Install Year: Years in Service:	on: 32 s 11353893 FS Liquid Fe Liquid Fuel 6/2/2009 1984 NULL 13600 Steel Internally Lin	348083 ONTARIO S LIQUID FUEL TA NNE/115.0 uel Tank Single Wall UST	LTD O/A GAS STN NK	1348083 ONTARIO LT 324 SPEEDVALE AV I ON Manufacturer: Serial No: Ulc Standard: Quantity: Unit of Measure: Fuel Type: Fuel Type2: Fuel Type3: Piping Steel: Piping Galvanized:	Gasoline NULL	FST

r of Direction/ s Distance (m)	Elev/Diff (m)	Site		Ľ
<u>S</u>				
		TN		
NNE/115.0	334.7 / 0.58			FS
		Manufacturer: Serial No: Ulc Standard: Quantity: Unit of Measure: Fuel Type: Fuel Type2: Fuel Type3: Piping Steel: Piping Galvanized: Tanks Single Wall St: Piping Underground: No Underground: Panam Related: Panam Venue:	Gasoline NULL NULL	
		TN		
NNE/115.0	334.7 / 0.58			FS
11588823 FS Liquid Fuel Tank Double Wall UST 6/2/2009 1996 NULL 50000 Fiberglass (FRP) Fiberglass FS Liquid Fuel Tar		Manufacturer: Serial No: Ulc Standard: Quantity: Unit of Measure: Fuel Type: Fuel Type2: Fuel Type3: Piping Steel: Piping Galvanized: Tanks Single Wall St: Piping Underground: No Underground: Panam Related: Panam Venue:	Gasoline NULL NULL	
	s Distance (m) S Distance (m) S Liquid Sull UST 6/2/2009 1984 NULL 9000 Steel Internally Lined FS Liquid Fuel Tank Liquid Fuel Single Wall UST 6/2/2009 1984 NULL 9000 Steel Internally Lined FS Liquid Fuel Tank CNNE/115.0 11588823 FS Liquid Fuel Tank Double Wall UST 6/2/2009 1996 NULL 50000 Fiberglass (FRP) Fiberglass	s Distance (m) (m) s Distance (m) (m) s 1348083 ONTARIO LTD O/A GAS S FS LIQUID FUEL TANK NNE/115.0 334.7/0.58 11353870 FS Liquid Fuel Tank Liquid Fuel Single Wall UST 6/2/2009 1984 NULL 9000 Steel Internally Lined FS Liquid Fuel Tank pon: 324 SPEEDVALE AV E GUELPH N1 s 1348083 ONTARIO LTD O/A GAS S FS LIQUID FUEL TANK NNE/115.0 334.7/0.58 11588823 FS Liquid Fuel Tank Duble Wall UST 6/2/2009 1996 NULL 50000 Fiberglass (FRP) Fiberglass	S Distance (m) (m) 1348083 ONTARIO LTD O/A GAS STN FS LIQUID FUEL TANK 1348083 ONTARIO LTD O/A GAS STN FS LIQUID FUEL TANK NNE/115.0 334.7/0.58 1348083 ONTARIO LTD O/A GAS STN Serial No: UIG Standard: Quantity: UIG Standard: Quantity: UIG Standard: Quantity: UIG Standard: Quantity: UII of Measure: FS Liquid Fuel Tank Manufacturer: Serial No: UIG Standard: Quantity: UII of Measure: Fuel Type2: Fuel Type2: Fuel Type2: Fuel Type3: Piping Galvanized: Tarks Single Wall UST 6/22009 Fuel Type2: Fuel Type3: Piping Galvanized: Tarks Single Wall St: Piping Underground: Panam Related: Panam Venue: 9000 Steel Internally Lined Steel Panam Related: Panam Related: Panam Venue: NULL 9000 Steel Internally Lined 34.7/0.58 1348083 ONTARIO LTD 224 SPEEDVALE AV E GUELPH N1E 1N2 ON CA 11588823 Manufacturer: Serial No: UI Standard: Quantity: UNIt of Measure: FS Liquid Fuel Tank Manufacturer: Serial No: UI Standard: Quantity: UNIt of Measure: FU Type2: Fuel Type3: Fuel Type3: FU Type2: Fuel Type3: FU Type2: Fuel Type3: FU Type2: Fuel Type3: Fuel Type3: FU Type2: Fuel Type3: FU Type2: Fu Type3: FU Type2: Fu Type3: FU Type2: Fu Type3: FU Type3: FU Type2: Fu Type3: FU Type3: F	s Distance (m) (m) s Dist

	Number Records		Direction/ Distance (m)	Elev/Diff (m)	Site		D
Liquid Fuel Ta	ank Details						
Overfill Protec Owner Accoui Item:			1348083 ONTARIO FS LIQUID FUEL T		TN		
<u>15</u>	25 of 26		NNE/115.0	334.7 / 0.58	1348083 ONTARIO LI 324 SPEEDVALE AV ON	TD O/A GAS STN E GUELPH N1E 1N2 ON CA	FSI
Instance No: Status: Cont Name: Instance Type Item: Item Descripti Tank Type: Install Date: Install Year: Years in Servi Model: Description: Capacity: Tank Material: Corrosion Pro	ion: ice: : ptect:	11588843 FS Liquid Double W 6/2/2009 1996 NULL 50000 Fiberglass Fiberglass	Fuel Tank all UST s (FRP)		Manufacturer: Serial No: Ulc Standard: Quantity: Unit of Measure: Fuel Type: Fuel Type2: Fuel Type3: Piping Steel: Piping Galvanized: Tanks Single Wall St: Piping Underground: No Underground: Panam Related: Panam Venue:	Gasoline Gasoline NULL	
Overfill Protec Facility Type: Parent Facility Facility Locati Device Installe Liquid Fuel Ta Overfill Protec Owner Accour	y Type: ion: ed Location ank Details ction:	n:	FS Liquid Fuel Tank 324 SPEEDVALE A 1348083 ONTARIO FS LIQUID FUEL TA	NV E GUELPH N1			
Overfill Protec Facility Type: Parent Facility Facility Locati Device Installe Liquid Fuel Ta Overfill Protec Owner Accour Item:	y Type: ion: ed Location ank Details ction:	n:	324 SPEEDVALE A 1348083 ONTARIO	NV E GUELPH N1	TN 1348083 ONTARIO L1	TD O/A GAS STN E GUELPH N1E 1N2 ON CA	FSI

Map Key	Number Records		Direction/ Distance (m	Elev/Diff) (m)	Site	DE
Liquid Fuel	Tank Details					
Overfill Prot Owner Acco Item:			1348083 ONTAR FS LIQUID FUEL	IO LTD O/A GAS S TANK	TN	
<u>16</u>	1 of 6		NE/141.7	336.2 / 2.00	BEAVER GAS STATION PEEDVALE AVE EAST/STEVENSON ST. SERVICE STATION GUELPH CITY ON	SP
Ref No:		119083			Contaminant Qty:	
Site No: Incident Dt:		9/27/19	95		Nature of Damage: Discharger Report:	
Year:					Material Group:	
Incident Ca Incident Eve		PIPE/H	OSE LEAK		Health/Env Conseq: Agency Involved:	
Environmen		NOT AN	ITICIPATED		Site Lot:	
Nature of In MOE Respo					Site Conc: Site Geo Ref Accu:	
Dt MOE Årv	l on Scn:	0/00/40			Site Map Datum:	
MOE Report Dt Documer		9/29/199	95		Northing: Easting:	
Municipality		75101			-	
Client Type:	ility Address :					
Call Report Contaminar	Location Ge	odata:				
Contaminar						
Contaminan Contam Lim						
Contaminar	•					
Receiving N Receiving F	/ledium: Environment:		LAND			
Incident Rea	ason:		OTHER			
Incident Sui Site Region			BEAVER GAS ST	TATION - 7 L GASC	LINE TO ASPHALT FROM UNDERGR'D TANK, CLEANED UP	
Site Municip	oality:		GUELPH CITY			
	ceding Spill: d Watershed					
Property Te	rtiary Waters	shed:				
Sector Type SAC Action	<u>.</u> .					
Source Type	e:					
Site County Site Geo Re						
Site District Nearest Wa						
Site Name: Site Addres Client Name	s:					
<u>16</u>	2 of 6		NE/141.7	336.2 / 2.00	SOUTHLAND CANADA 2830 ATTN MARYANN GRAHOVAC SPEEDVALE AT STEVENSON	PR
					GUELPH ON	
Location ID	:		5651			
Type: Expiry Date	-		retail 1995-07-31			
Capacity (L)			127300			
Licence #:			0053572001			

Map Key Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DE
<u>16</u> 3 of 6	NE/141.7	336.2 / 2.00	GUELPH HYDRO SPEEDVALE AVE. EAST AT STEVENSON ST. N. C/O 104 DAWSON ROAD GUELPH ON N1H 1A7	GEN
Generator No: SIC Code: SIC Description: Approval Years: PO Box No: Country: Status: Co Admin: Choice of Contact: Phone No Admin: Contaminated Facility: MHSW Facility:	ON0558308 4911 ELECT. POWER S 89,90	YS.		
<u>Detail(s)</u>				
<i>Waste Class: Naste Class Name:</i>	122 ALKALINE WASTE	S - OTHER METALS		
Vaste Class: Vaste Class Name:	251 OIL SKIMMINGS &	SLUDGES		
<u>16</u> 4 of 6	NE/141.7	336.2 / 2.00	GUELPH HYDRO 18-349 SPEEDVALE AVE. EAST AT STEVENSON ST. N. C/O 104 DAWSON ROAD GUELPH ON N1H 1A7	GEN
Generator No: SIC Code: SIC Description: Approval Years: PO Box No: Country: Status: Co Admin: Choice of Contact: Phone No Admin: Contaminated Facility: MHSW Facility:	ON0558308 4911 ELECT. POWER S 92,93,94,95,96,97,9	-		
<u>Detail(s)</u>				
<i>Waste Class: Vaste Class Name:</i>	122 ALKALINE WASTE	S - OTHER METALS		
<i>Waste Class: Vaste Class Name:</i>	251 OIL SKIMMINGS &	SLUDGES		
16 5 of 6	NE/141.7	336.2 / 2.00	GUELPH HYDRO SPEEDVALE AVENUE EAST AT STEVENSON STREET NORTH GUELPH ON	GEN
Generator No: SIC Code:	ON0558308			

Мар Кеу	Number Records		Direction/ Distance (m)	Elev/Diff (m)	Site		DB
PO Box No: Country: Status: Co Admin: Choice of Cd Phone No A Contaminate MHSW Facil	dmin: ed Facility:						
<u>16</u>	6 of 6		NE/141.7	336.2 / 2.00	Speedvale Ave E & St Guelph ON	evenson St N	EHS
Order No: Status: Report Type Report Date Date Receiv Previous Sit Lot/Building Additional Ir	: ed: e Name: Size:	200504210 C 4/22/2005 4/21/2005	009		Nearest Intersection: Municipality: Client Prov/State: Search Radius (km): X: Y:	ON 0.35 -80.2581 43.56777	
<u>17</u>	1 of 1		NE/159.8	336.9/2.73	329 Speedvale Ave E Guelph ON N1E 1N6		SPL
Ref No: Site No: Incident Dt: Year: Incident Cau Incident Eve Environmen Nature of Im MOE Respon Dt MOE Respon Dt MOE Report Dt Documen Municipality System Faci Client Type: Call Report I Contaminan Contaminan Contaminan Contaminan Receiving M Receiving E Incident Rea Incident Sur	ent: t Impact: pact: nse: ed Dt: ed Dt: t Closed: No: lity Address Location Geo t Code: t Name: t Code: t Name: t Limit 1: it Freq 1: t UN No 1: edium: nvironment: ason:	No Field R 10/30/2010 11/10/2010 : odata:	ated ater Pollution esponse	ng fluids into stor	Contaminant Qty: Nature of Damage: Discharger Report: Material Group: Health/Env Conseq: Agency Involved: Site Lot: Site Geo Ref Accu: Site Geo Ref Accu: Site Map Datum: Northing: Easting:		
Site Region: Site Municip Activity Pred Property 2nd Property Tel Sector Type SAC Action Source Type Site County Site Geo Rei Site District Nearest Wat Site Name: Site Address	ality: ceding Spill: d Watershed tiary Waters : Class: District: f Meth: Office: ercourse:	: :hed: \	Motor Vehicle Watercourse Spills				

	Records	of Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Client Name:						
<u>18</u>	1 of 4	NNE/184.7	336.6/2.39	7-Eleven 328 Speedva Guelph ON N1E 1N5	ale Ave East	EHS
Order No: Status: Report Type: Report Date: Date Receive Previous Site Lot/Building Additional In	ed: e Name: Size:	21112300473 C Custom Report 03-DEC-21 23-NOV-21 Fire Insur. Maps a	nd/or Site Plans; A	Nearest Intersection: Municipality: Client Prov/State: Search Radius (km): X: Y: erial Photos	ON .25 -80.25789165 43.56657602	
<u>18</u>	2 of 4	NNE/184.7	336.6/2.39	7-Eleven 328 Speedva Guelph ON N1E 1N5	ale Ave East	EHS
Order No: Status: Report Type. Report Date: Date Receive Previous Site Lot/Building Additional In	ed: e Name: Size:	21112300473 C Custom Report 03-DEC-21 23-NOV-21 Fire Insur. Maps a	nd/or Site Plans; A	Nearest Intersection: Municipality: Client Prov/State: Search Radius (km): X: Y: erial Photos	ON .25 -80.25789165 43.56657602	
<u>18</u>	3 of 4	NNE/184.7	336.6 / 2.39	7-Eleven 328 Speedva Guelph ON N1E 1N5	ale Ave East	EHS
Order No: Status: Report Type:		21112300473 C Custom Report		Nearest Intersection: Municipality: Client Prov/State: Search Radius (km):	ON .25 -80.25789165	
Report Date: Date Receive Previous Site Lot/Building	ed: e Name: Size:	03-DEC-21 23-NOV-21 Fire Insur. Maps a	nd/or Site Plans; A	X: Y: erial Photos	43.56657602	
Report Type: Report Date: Date Receive Previous Site Lot/Building Additional In	ed: e Name: Size:	23-NOV-21	nd/or Site Plans; A	Y: erial Photos 7-Eleven 328 Speedva	43.56657602	540
Report Date: Date Receive Previous Site Lot/Building Additional In	ed: Size: fo Ordered: 4 of 4 	23-NOV-21 Fire Insur. Maps a NNE/184.7 21112300473 C Custom Report 03-DEC-21 23-NOV-21	336.6 / 2.39	Y: erial Photos 7-Eleven 328 Speedva Guelph ON N1E 1N5 Nearest Intersection: Municipality: Client Prov/State: Search Radius (km): X: Y:	43.56657602	EHS
Report Date: Date Receive Previous Site Lot/Building Additional In <u>18</u> Order No: Status: Report Type Report Date: Date Receive Previous Site Lot/Building	ed: Size: fo Ordered: 4 of 4 	23-NOV-21 Fire Insur. Maps a NNE/184.7 21112300473 C Custom Report 03-DEC-21 23-NOV-21	336.6 / 2.39	Y: erial Photos 7-Eleven 328 Speedva Guelph ON N1E 1N5 Nearest Intersection: Municipality: Client Prov/State: Search Radius (km): X: Y: erial Photos	43.56657602 ale Ave East ON .25 -80.25789165 43.56657602 NC - NATIONAL GAS DEPT E AT STEVENSON	EHS

	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DE
Operation Ty _l Facility Type:		Retail Fuel Outlet Gasoline Station - S	elf Serve		
Details					
Status:		Active			
Year of Instal	lation:	1987			
Corrosion Pre	otection:				
Capacity:		36370			
Tank Fuel Ty	pe:	Liquid Fuel Single W	/all UST - Gasoline		
Status:		Active			
ear of Instal		1987			
Corrosion Pro	otection:				
Capacity:		36370			
ank Fuel Ty	be:	Liquid Fuel Single W	Vall UST - Gasoline		
Status:		Active			
Year of Instal		1987			
Corrosion Pre	otection:				
Capacity:		27280			
ank Fuel Ty	be:	Liquid Fuel Single W	/all UST - Gasoline		
Status:		Active			
ear of Instal		1987			
Corrosion Pre	otection:				
Capacity:		27280			
Tank Fuel Tyj	be:	Liquid Fuel Single W	/all UST - Gasoline		
<u>19</u>	2 of 30	NNE/188.1	336.9/2.69	7-ELEVEN CANADA INC - NATIONAL GAS DEPT 328 SPEEDVALE AV E AT STEVENSON GUELPH ON N1E 1N5	FSTH
	5.4			GUELPH ON NTE TNS	
license Issue	e Date:	6/21/2002 Licensed			
ank Status:	1 a Of	December 2008			
ank Status A Dperation Ty		Retail Fuel Outlet			
		Gasoline Station - S	elf Serve		
acinty Type:					
-Details					
<u>-Details</u> Status:		Active			
<u>-Details</u> Status: Year of Instal	lation:				
<u>-Details</u> Status: Year of Instal Corrosion Pro	lation:	Active			
- <u>Details</u> Status: Year of Instal Corrosion Pro Capacity:	lation: otection:	Active 1987	/all UST - Gasoline		
<u>-Details</u> Status: Year of Instal Corrosion Pro Capacity: Fank Fuel Tyj Status:	lation: otection: oe:	Active 1987 36370 Liquid Fuel Single W Active	/all UST - Gasoline		
- <u>Details</u> Status: (ear of Instal Corrosion Pro Capacity: "ank Fuel Tyj Status: (ear of Instal	lation: otection: oe: lation:	Active 1987 36370 Liquid Fuel Single W	/all UST - Gasoline		
<u>-Details</u> Status: Year of Instal Corrosion Pro Capacity: Fank Fuel Typ Status: Year of Instal Corrosion Pro	lation: otection: oe: lation:	Active 1987 36370 Liquid Fuel Single W Active 1987	/all UST - Gasoline		
- <u>Details</u> Status: Corrosion Pro Capacity: Fank Fuel Typ Status: Cear of Instal Corrosion Pro Capacity:	lation: otection: oe: lation: otection:	Active 1987 36370 Liquid Fuel Single W Active			
<u>-Details</u> Status: Year of Instal Corrosion Pro Capacity: Fank Fuel Typ Status: Year of Instal Corrosion Pro Capacity: Fank Fuel Typ	lation: otection: oe: lation: otection:	Active 1987 36370 Liquid Fuel Single W Active 1987 36370 Liquid Fuel Single W			
<u>-Details</u> Status: Year of Instal Corrosion Pro Capacity: Fank Fuel Typ Status: Year of Instal Corrosion Pro Capacity: Fank Fuel Typ Status:	lation: otection: oe: lation: otection: oe:	Active 1987 36370 Liquid Fuel Single W Active 1987 36370 Liquid Fuel Single W Active			
<u>-Details</u> Status: Year of Instal Corrosion Pro Capacity: Fank Fuel Typ Status: Corrosion Pro Capacity: Fank Fuel Typ Status: Year of Instal	lation: otection: oe: lation: otection: oe: lation:	Active 1987 36370 Liquid Fuel Single W Active 1987 36370 Liquid Fuel Single W			
<u>-Details</u> Status: Year of Instal Corrosion Pro Capacity: Fank Fuel Typ Status: Year of Instal Corrosion Pro Capacity: Tank Fuel Typ Status: Year of Instal Corrosion Pro	lation: otection: oe: lation: otection: oe: lation:	Active 1987 36370 Liquid Fuel Single W Active 1987 36370 Liquid Fuel Single W Active 1987			
<u>Details</u> Status: Year of Instal Corrosion Pro Capacity: Tank Fuel Typ Status: Year of Instal Corrosion Pro Capacity: Status: Year of Instal Corrosion Pro Capacity:	lation: otection: be: lation: otection: be: lation: otection:	Active 1987 36370 Liquid Fuel Single W Active 1987 36370 Liquid Fuel Single W Active	/all UST - Gasoline		
<u>-Details</u> Status: Year of Instal Corrosion Pro Capacity: Fank Fuel Typ Status: Year of Instal Corrosion Pro Capacity: Status: Year of Instal Corrosion Pro Capacity: Fank Fuel Typ	lation: otection: be: lation: otection: be: lation: otection:	Active 1987 36370 Liquid Fuel Single W Active 1987 36370 Liquid Fuel Single W Active 1987 27280	/all UST - Gasoline		
- <u>Details</u> Status: (ear of Instal Corrosion Pro Capacity: Tank Fuel Typ Status: (ear of Instal Corrosion Pro Capacity: Status: (ear of Instal Corrosion Pro Capacity: Tank Fuel Typ Status:	lation: otection: oe: lation: otection: otection: otection: otection:	Active 1987 36370 Liquid Fuel Single W Active 1987 36370 Liquid Fuel Single W Active 1987 27280 Liquid Fuel Single W	/all UST - Gasoline		
<u>-Details</u> Status: Year of Instal Corrosion Pro Capacity: Tank Fuel Typ Status: Year of Instal Corrosion Pro Capacity: Status: Year of Instal Corrosion Pro Capacity: Tank Fuel Typ Status: Year of Instal	lation: otection: oe: lation: otection: otection: otection: oe: lation:	Active 1987 36370 Liquid Fuel Single W Active 1987 36370 Liquid Fuel Single W Active 1987 27280 Liquid Fuel Single W Active	/all UST - Gasoline		
Facility Type: <u>-Details</u> Status: Year of Instal Corrosion Pro Capacity: Tank Fuel Typ Status: Year of Instal Corrosion Pro Capacity: Tank Fuel Typ Status: Year of Instal Corrosion Pro Capacity: Status: Year of Instal Corrosion Pro Capacity: Tank Fuel Typ Status: Year of Instal Corrosion Pro Capacity: Tank Fuel Typ	lation: otection: be: lation: otection: be: lation: otection: be:	Active 1987 36370 Liquid Fuel Single W Active 1987 36370 Liquid Fuel Single W Active 1987 27280 Liquid Fuel Single W Active	/all UST - Gasoline		

Мар Кеу	Number Records		Elev/Diff n) (m)	Site	DB
<u>19</u>	3 of 30	NNE/188.1	336.9 / 2.69	The Corporation of the City of Guelph 328 Speedville Ave East Guelph ON	SPL
Ref No: Site No: Incident Dt: Year:		4458-84Y434		Contaminant Qty: 1000 L Nature of Damage: Discharger Report: Material Group:	
Incident Cau Incident Eve	ent:	Other Discharges		Health/Env Conseq: Agency Involved: Site Let:	
Environmen Nature of Im MOE Respoi Dt MOE Arvl	pact: nse: I on Scn:	Not Anticipated Surface Water Pollution No Field Response		Site Lot: Site Conc: Site Geo Ref Accu: Site Map Datum:	
MOE Report Dt Documen Municipality	t Closed:	4/28/2010 6/24/2010		Northing: Easting:	
System Faci Client Type: Call Report I	-				
Contaminan Contaminan Contaminan Contam Lim Contaminan Receiving M	t Code: t Name: t Limit 1: it Freq 1: t UN No 1:	27 FIRE SUPPRES	SANT		
Receiving El Incident Rea Incident Sun Site Region: Site Municip Activity Pred Property 2nd	nvironment: ason: mmary: pality: ceding Spill: d Watershed	Fire/Explosion - I Vehicle fire - Fire I:	Resulting from fires/e fighting foam to CB	explosions (Not occurrences which cause a fire or explosion)	
Property Ter Sector Type		s hed: Other			
SAC Action Source Type Site County/ Site Geo Rel Site District	e: /District: f Meth:	Watercourse Spi	lls		
Nearest Wat Site Name: Site Address		Catchbasin <un0< td=""><td>OFFICIAL></td><td></td><td></td></un0<>	OFFICIAL>		
Client Name		The Corporation	of the City of Guelph		
<u>19</u>	4 of 30	NNE/188.1	336.9/2.69	7-ELEVEN CANADA INC - NATIONAL GAS DEPT 328 SPEEDVALE AV E AT STEVENSON GUELPH ON	DTNK
<u>Delisted Exp</u> Facilities	bired Fuel Sa	afety			
Instance No: Status: Instance ID: Instance Typ Instance Cre Instance Ins Item Descrip	oe: eation Dt: tall Dt:	11329253 EXPIRED 79039 FS Piping		Expired Date: Max Hazard Rank: Facility Location: Facility Type: Fuel Type 2: Fuel Type 3: Panam Related:	

Мар Кеу	Number Records		Elev/Diff ı) (m)	Site		I
Manufacturer: Nodel:	:			Panam Venue Nm: External Identifier:		
Serial No:				Item:		
JLC Standard	l:			Piping Steel:		
Quantity:				Piping Galvanized:		
Jnit of Measu	re:			Tank Single Wall St:		
Overfill Prot T				Piping Underground:		
Creation Date				Tank Underground:		
lext Periodic				Source:		
TSSA Base So		2:				
TSSAMax Haz	-					
TSSA Risk Ba						
TSSA Volume						
TSSA Periodia						
TSSA Statuto	•					
TSSA Recd In	-					
TSSA Recd To	•					
TSSA Program						
TSSA Program						
Description:	n Alea 2.	FS Piping				
Original Sour	<u></u>	EXP				
Record Date:		Up to Mar 2012				
<u>19</u>	5 of 30	NNE/188.1	336.9/2.69	328 Speedvale Avenue Guelph ON	East	EH
Order No:		20120509001		Nearest Intersection:		
Status:		C		Municipality:		
Report Type:		Standard Report		Client Prov/State:	ON	
Report Date:		5/17/2012 8:05:27 AM		Search Radius (km):	0.25	
Date Received	<i>.</i>	5/9/2012 8:05:08 AM		X:	-80.257944	
Previous Site		5/5/2012 0.05.00 AM		Y:	43.567644	
Lot/Building S				1.	43.307044	
Additional Info						
<u>19</u>	6 of 30	NNE/188.1	336.9/2.69	-	IC - NATIONAL GAS DEPT GUELPH N1E 1N5 ON CA	FS
		10771150		-		
Instance No:		10771159		Manufacturer: Serial No:		
Status:						
Cont Name:		ES Liquid Eucl Tools		Ulc Standard:		
nstance Type		FS Liquid Fuel Tank		Quantity:		
tem:		EQ Liquid Eval Tarely		Unit of Measure:	Casalina	
tem Descripti	ion:	FS Liquid Fuel Tank		Fuel Type:	Gasoline	
Tank Type:		Single Wall UST		Fuel Type2:	NULL	
		6/2/2009		Fuel Type3:	NULL	
		1987		Piping Steel:		
nstall Year:	ice:	NU U 1		Piping Galvanized:		
nstall Year: Years in Servi		NULL		Tanks Single Wall St:		
Install Year: Years in Servi Nodel:				Piping Underground:		
nstall Year: Years in Servi Model: Description:				No Underground:		
nstall Year: Years in Servi Model: Description: Capacity:		36370				
Install Date: Install Year: Years in Servi Model: Description: Capacity: Tank Material:	:	Fiberglass (FRP)		Panam Related:		
install Year: Years in Servi Model: Description: Capacity: Tank Material:						
Install Year: Years in Servi Model: Description: Capacity:	otect:	Fiberglass (FRP) Fiberglass		Panam Related:		
Install Year: Years in Servi Model: Description: Capacity: Tank Material: Corrosion Pro	otect: ct:	Fiberglass (FRP) Fiberglass FS Liquid Fuel T		Panam Related: Panam Venue:		
nstall Year: Years in Servi Model: Description: Capacity: Fank Material. Corrosion Pro Dverfill Proteo Facility Type:	otect: ct:	Fiberglass (FRP) Fiberglass FS Liquid Fuel T	ank STATION - SELF SE	Panam Related: Panam Venue:		
Install Year: Years in Servi Model: Description: Capacity: Tank Material. Corrosion Pro Overfill Proteo	otect: ct: y Type:	Fiberglass (FRP) Fiberglass FS Liquid Fuel T		Panam Related: Panam Venue:		

Liquid Fuel Tank Details

	Records	of Direction/ Distance (n	Elev/Diff n) (m)	Site		D
Overfill Protec Owner Accoun Item:		7-ELEVEN CAN FS LIQUID FUE	ADA INC - NATIONA L TANK	AL GAS DEPT		
<u>19</u>	7 of 30	NNE/188.1	336.9/2.69	-	INC - NATIONAL GAS DEPT E GUELPH N1E 1N5 ON CA	FS1
Instance No: Status: Cont Name: Instance Type: Item: Item Descriptio Tank Type: Install Date: Install Year: Years in Servio Model: Description: Capacity: Tank Material: Corrosion Prote Overfill Protec Facility Type: Parent Facility Facility Locatio Device Installe	on: ce: tect: t: y Type: on: ed Location		^{'ank} STATION - SELF SE E AV E GUELPH N1		Gasoline NULL NULL	
	nk Details					
Overfill Protect Owner Account	tion:		ADA INC - NATIONA L TANK	AL GAS DEPT		
Overfill Protec Owner Accoun Item:	tion:	7-ELEVEN CAN		7-ELEVEN CANADA	INC - NATIONAL GAS DEPT E GUELPH N1E 1N5 ON CA	FST

Liquid Fuel Tank Details

Overfill Protection:

Мар Кеу	Number Records		Elev/Diff) (m)	Site		DE
Owner Acco Item:	unt Name:	7-ELEVEN CANA FS LIQUID FUEL	DA INC - NATIONA TANK	AL GAS DEPT		
<u>19</u>	9 of 30	NNE/188.1	336.9 / 2.69		NC - NATIONAL GAS DEPT E GUELPH N1E 1N5 ON CA	FST
Instance No: Status: Cont Name: Instance Typ Item: Item Descrip	be:	10771184 FS Liquid Fuel Tank FS Liquid Fuel Tank		Manufacturer: Serial No: Ulc Standard: Quantity: Unit of Measure: Fuel Type:	Gasoline	
Tank Type: Install Date: Install Year: Years in Ser Model: Description:	vice:	Single Wall UST 6/2/2009 1987 NULL		Fuel Type2: Fuel Type3: Piping Steel: Piping Galvanized: Tanks Single Wall St: Piping Underground:	NULL NULL	
Capacity: Tank Materia Corrosion Pl Overfill Prote Facility Type	al: rotect: ect: 2:	27280 Fiberglass (FRP) Fiberglass FS Liquid Fuel Ta		No Underground: Panam Related: Panam Venue:		
Parent Facili Facility Loca Device Insta	ation:		TATION - SELF SE AV E GUELPH N1			
Owner Acco Item: <u>19</u>	10 of 30	FS LIQUID FUEL	DA INC - NATIONA TANK 336.9 / 2.69	7-Eleven Canada Inc. 328 Speedvale Ave Ea	nst	GEN
Generator N SIC Code:	o:	ON6405832 447110		Guelph ON		
SIC Descript Approval Ye PO Box No: Country: Status: Co Admin: Choice of Co Phone No Ao Contaminate MHSW Facili	ars: ontact: dmin: ed Facility:	Gasoline Stations 2012	with Convenience	Stores		
<u>19</u>	11 of 30	NNE/188.1	336.9/2.69	328 Speedvale Ave E Guelph ON N1E0J4		EHS
Order No: Status: Report Type Report Date: Date Receive Previous Situ Lot/Building	: ed: e Name:	20140502031 C Custom Report 12-MAY-14 02-MAY-14		Nearest Intersection: Municipality: Client Prov/State: Search Radius (km): X: Y:	ON .25 -80.257927 43.567463	

Мар Кеу	Number Record		Direction/ Distance (m)	Elev/Diff) (m)	Site	DI
<u>19</u>	12 of 30		NNE/188.1	336.9 / 2.69	7-Eleven Canada Inc. 328 Speedvale Ave East Guelph ON	GEN
Generator N	o:		ON6405832			
SIC Code: SIC Descript	tion		447110			
Approval Ye			2013			
PO Box No:	ui oi		2010			
Country:						
Status:						
Co Admin:						
Choice of Co Phone No Ao						
Contaminate						
MHSW Facil	•					
Detail(s)						
Waste Class			221			
Waste Class	Name:		LIGHT FUELS			
<u>19</u>	13 of 30		NNE/188.1	336.9 / 2.69	7-ELEVEN CANADA INC - NATIONAL GAS DEPT 328 SPEEDVALE AV E GUELPH N1E 1N5 ON CA ON	FST
Instance No:	:	64557930)		Manufacturer:	
Status: Cont Name:					Serial No: Ulc Standard:	
Instance Typ	oe:	FS Liquid	Fuel Tank		Quantity:	
Item:					Unit of Measure:	
ltem Descrip	otion:		Fuel Tank		Fuel Type: Gasoline	
Tank Type:		Double W			Fuel Type2: NULL	
Install Date: Install Year:		1/22/2013 2013	3:58:03 PM		Fuel Type3: NULL	
install Year: Years in Ser	vice	2013			Piping Steel: Piping Galvanized:	
Model:	vice.	NULL			Tanks Single Wall St:	
Description:					Piping Underground:	
Capacity:		75000			No Underground:	
Tank Materia		Fiberglass	s (FRP)		Panam Related:	
Corrosion Pl Overfill Prot		NULL			Panam Venue:	
Facility Type			FS Liquid Fuel Ta	ink		
Parent Facili			FS Gasoline Stati			
Facility Loca						
Device Insta	lled Locatio	n:	328 SPEEDVALE	AV E GUELPH N1	E 1N5 ON CA	
Liquid Fuel	Tank Details	ì				
Overfill Prot				.DA INC - NATIONA		
Owner Acco Item:	unt Name:		FS LIQUID FUEL			
<u>19</u>	14 of 30		NNE/188.1	336.9 / 2.69	7-ELEVEN CANADA INC - NATIONAL GAS DEPT 328 SPEEDVALE AV E GUELPH N1E 1N5 ON CA ON	FST
Instance No:	:	64557931			Manufacturer:	
Status:					Serial No:	
Cont Name: Instance Typ		EQ Linut	Fuel Test		Ulc Standard:	
uistance IVI	Je:	rs ∟iquid	Fuel Tank		Quantity:	

erisinfo.com | Environmental Risk Information Services

Map Key	Number Records		Direction/ Distance (m)	Elev/Diff (m)	Site		DE
Item:					Unit of Measure:		
Item Descript	ion:	FS Liaui	d Fuel Tank		Fuel Type:	Diesel	
Tank Type:			Wall UST		Fuel Type2:	Gasoline	
Install Date:			13 3:58:03 PM		Fuel Type3:	NULL	
Install Year:		2013	10 0.00.00 1 10		Piping Steel:	NOLL	
	100.	2013					
Years in Servi	ice:	N II II I			Piping Galvanized:		
Model:		NULL			Tanks Single Wall St:		
Description:					Piping Underground:		
Capacity:		75000			No Underground:		
Tank Material	:	Fibergla	ss (FRP)		Panam Related:		
Corrosion Pro	otect:	NULL			Panam Venue:		
Overfill Prote	ct:						
Facility Type:			FS Liquid Fuel Tar	nk			
Parent Facilit			FS Gasoline Static				
Facility Locat							
Device Install		n:	328 SPEEDVALE	AV E GUELPH N1	E 1N5 ON CA		
<u>Liquid Fuel Ta</u> Overfill Prote	ction:						
Owner Accou Item:	int Name:		7-ELEVEN CANAI		AL GAS DEPT		
<u>19</u>	15 of 30		NNE/188.1	336.9 / 2.69	7-Eleven Canada Inc. 328 Speedvale Ave Ea Guelph ON N1E 1N5	ast	GEN
Generator No	:		ON6405832				
SIC Code:			447110				
SIC Description	on:		447110				
Approval Yea			2016				
PO Box No:			2010				
			Canada				
Country:			Callaua				
Status:							
Co Admin:			Keisha-Gaye Willia	ams			
Choice of Cor	ntact:		CO_ADMIN				
Phone No Ad	min:		905-569-4158 Ext.				
Contaminated	d Facility:		No				
MHSW Facilit			No				
<u>Detail(s)</u>							
Waste Class:			221				
Waste Class I	Name:		LIGHT FUELS				
<u>19</u>	16 of 30		NNE/188.1	336.9/2.69	7-Eleven Canada Inc. 328 Speedvale Ave Ea Guelph ON N1E 1N5	ast	GEN
	c.		ON6405832				
			447110				
SIC Code:			447110				
Generator No SIC Code: SIC Descriptio			2015				
SIC Code:							
SIC Code: SIC Description Approval Yea							
SIC Code: SIC Descriptio Approval Yea PO Box No:			Canada				
SIC Code: SIC Descriptio Approval Yea PO Box No: Country:			Canada				
SIC Code: SIC Description Approval Yea PO Box No: Country: Status:				sa			
SIC Code: SIC Description Approval Yea PO Box No: Country: Status: Co Admin:	rs:		Steve M Della Ros	ssa			
SIC Code: SIC Descripti Approval Yea PO Box No: Country: Status: Co Admin: Choice of Coi	rs: ntact:		Steve M Della Ros CO_ADMIN				
SIC Code: SIC Descripti Approval Yea PO Box No: Country: Status: Co Admin: Choice of Coi Phone No Adi	rs: ntact: min:		Steve M Della Ros CO_ADMIN 905-569-4138 Ext.				
SIC Code: SIC Descripti Approval Yea PO Box No: Country: Status: Co Admin: Choice of Coi	rs: ntact: min: d Facility:		Steve M Della Ros CO_ADMIN				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Detail(s)</u>					
Waste Class Waste Class		221 LIGHT FUELS			
<u>19</u>	17 of 30	NNE/188.1	336.9 / 2.69	7-Eleven Canada Inc. 328 Speedvale Ave East Guelph ON N1E 1N5	GEN
Generator No SIC Code: SIC Descript Approval Yes PO Box No: Country: Status:	ion:	ON6405832 447110 447110 2014 Canada			
Co Admin: Choice of Co Phone No Ao Contaminate MHSW Facili	lmin: d Facility:	Steve M Della Ross CO_ADMIN 905-569-4138 Ext. No No	Sa		
<u>Detail(s)</u>					
Waste Class Waste Class		221 LIGHT FUELS			
<u>19</u>	18 of 30	NNE/188.1	336.9/2.69	7-Eleven Canada Inc. 328 Speedvale Ave East Guelph ON N1E 1N5	GEN
Generator No SIC Code: SIC Descript Approval Yea PO Box No: Country: Status: Co Admin: Choice of Co Phone No Ao Contaminate MHSW Facili	ion: ars: ontact: Imin: d Facility:	ON6405832 As of Dec 2018 Canada Registered			
<u>Detail(s)</u>					
Waste Class Waste Class		221 L Light fuels			
<u>19</u>	19 of 30	NNE/188.1	336.9 / 2.69	Cornell Animal Hospital 328 Speedvale Ave. E. Guelph ON N1E 1N5	GEN
Generator No SIC Code: SIC Descript Approval Yea PO Box No: Country: Status: Co Admin: Choice of Co	ion: ars:	ON9687993 As of Jul 2020 Canada Registered			

Мар Кеу	Number Records		Elev/Diff (m)	Site		DB
Phone No Ad Contaminate MHSW Facili	ed Facility:					
<u>Detail(s)</u>						
Waste Class Waste Class		312 P Pathological wastes				
<u>19</u>	20 of 30	NNE/188.1	336.9/2.69	7-Eleven Canada Inc 328 Speedvale Ave E Guelph ON N1E 1N5	East	GEN
Generator No SIC Code:	0:	ON6405832				
SIC Descript Approval Ye PO Box No: Country: Status: Co Admin: Choice of Co Phone No Ad	ars: ontact: dmin:	As of Jul 2020 Canada Registered				
Contaminate MHSW Facili	•					
<u>Detail(s)</u>						
Waste Class Waste Class		221 L Light fuels				
<u>19</u>	21 of 30	NNE/188.1	336.9/2.69	328 SPEEDVALE CO 328 Speedvale AVE I Guelph ON N1E 1N5		EASR
Approval No Status: Date: Record Type Link Source: Project Type Full Address Approval Ty SWP Area No PDF URL: PDF Site Loo	e: : :: :: pe: ame:	R-010-2111313201 REGISTERED 2019-05-14 EASR MOFA Air Emissions EASR-Air Emissions Grand River	3	MOE District: Municipality: Latitude: Longitude: Geometry X: Geometry Y:	Guelph Guelph 43.5675 -80.25805556	
<u>19</u>	22 of 30	NNE/188.1	336.9/2.69	328 Speedvale Ave E Guelph ON	East	SPL
Ref No: Site No: Incident Dt: Year: Incident Cau Incident Eve Environment Nature of Im MOE Pespor	nt: t Impact: pact:	2265-BHPM25 NA 11/7/2019 Leak/Break No		Contaminant Qty: Nature of Damage: Discharger Report: Material Group: Health/Env Conseq: Agency Involved: Site Lot: Site Conc: Site Geo Ref Accu:	10 L 2 - Minor Environment	
MOE Respor Dt MOE Arvi MOE Report	on Scn:	11/7/2019		Site Geo Ref Accu: Site Map Datum: Northing:	4823951.67	

Order No: 23060200052

Map Key	Number Records		Direction/ Distance (m)	Elev/Diff (m)	Site		DE
Dt Document					Easting:	559938.9	
Municipality							
System Facil	ity Address	::					
Client Type:							
Call Report L		odata:	45				
Contaminant			15				
Contaminant			TRANSMISSION C	JIL			
Contaminant							
Contam Limit Contaminant			1993				
			1993				
Receiving Me Receiving En			Land				
Incident Reas			Material Failure - P	Poor Design/Subst	andard Material		
Incident Sum			Transmission oil le				
Site Region:	inary.		West Central	ak to L cleaning			
Site Negion. Site Municipa	lity:		Guelph				
Activity Prece			Odelph				
Property 2nd							
Property Znd Property Tert							
Sector Type:	liary waters	sneu.	Miscellaneous Con	omunal			
SAC Action C	Vace.			Innunai			
Source Type:			Motor Vehicle				
Site County/L			County of Wellingto	מר			
Site Geo Ref			Obdinity of Weiningto				
Site District (Guelph				
Nearest Wate			Oucipii				
Site Name:	li course.		spill <unofficial< td=""><td>></td><td></td><td></td><td></td></unofficial<>	>			
Site Address			328 Speedvale Ave				
Client Name:							
19	23 of 30		NNF/188 1	336 9 / 2 69	7-ELEVEN CANADA	INC - NATIONAL GAS DEPT	
<u>19</u>	23 of 30		NNE/188.1	336.9/2.69		INC - NATIONAL GAS DEPT / E GUELPH N1E 1N5 ON CA	DTNK
<u>19</u> Delisted Expi Facilities		afety_	NNE/188.1	336.9/2.69	328 SPEEDVALE AV		DTNK
Delisted Expi Facilities		•		336.9/2.69	328 SPEEDVALE AV ON		DTNK
Delisted Expi Facilities Instance No:		6455793	1	336.9/2.69	328 SPEEDVALE AV ON Expired Date:	Y E GUELPH N1E 1N5 ON CA	DTNK
Delisted Expi Facilities Instance No: Status:		•	1	336.9/2.69	328 SPEEDVALE AV ON Expired Date: Max Hazard Rank:	V E GUELPH N1E 1N5 ON CA	
Delisted Expi Facilities Instance No: Status:		6455793	1	336.9/2.69	328 SPEEDVALE AV ON Expired Date:	V E GUELPH N1E 1N5 ON CA NULL 328 SPEEDVALE AV E GUELF	
Delisted Expi Facilities Instance No: Status: Instance ID:	ired Fuel Sa	6455793	1	336.9/2.69	328 SPEEDVALE AV ON Expired Date: Max Hazard Rank: Facility Location:	V E GUELPH N1E 1N5 ON CA	
Delisted Expi Facilities Instance No: Status: Instance ID: Instance Type	ired Fuel Sa	6455793 EXPIREI	1	336.9/2.69	328 SPEEDVALE AV ON Expired Date: Max Hazard Rank: Facility Location: Facility Type:	Y E GUELPH N1E 1N5 ON CA NULL 328 SPEEDVALE AV E GUELF CA	
Delisted Expi Facilities Instance No: Status: Instance ID: Instance Type Instance Crea	ired Fuel Sa e: ation Dt:	6455793 EXPIREI 1/22/201	1 D 3 3:59:45 PM	336.9/2.69	328 SPEEDVALE AV ON Expired Date: Max Hazard Rank: Facility Location: Facility Type: Fuel Type 2:	Y E GUELPH N1E 1N5 ON CA NULL 328 SPEEDVALE AV E GUELF CA FS LIQUID FUEL TANK	
Delisted Expi Facilities Instance No: Status: Instance ID: Instance Type Instance Creating	ired Fuel Sa e: ation Dt: all Dt:	6455793 EXPIREI 1/22/201 1/22/201	1 D 3 3:59:45 PM 3 3:58:03 PM	336.9/2.69	328 SPEEDVALE AV ON Expired Date: Max Hazard Rank: Facility Location: Facility Type:	Y E GUELPH N1E 1N5 ON CA NULL 328 SPEEDVALE AV E GUELF CA FS LIQUID FUEL TANK Gasoline	
Delisted Expi Facilities Instance No: Status: Instance ID: Instance Typ Instance Crea Instance Instance Instance Instance Instance Insta	ired Fuel Sa e: ation Dt: all Dt: tion:	6455793 EXPIREI 1/22/201 1/22/201	1 D 3 3:59:45 PM	336.9/2.69	328 SPEEDVALE AV ON Expired Date: Max Hazard Rank: Facility Location: Facility Type: Fuel Type 2: Fuel Type 3:	V E GUELPH N1E 1N5 ON CA NULL 328 SPEEDVALE AV E GUELF CA FS LIQUID FUEL TANK Gasoline NULL NULL	
Delisted Expi Facilities Instance No: Status: Instance ID: Instance Typ Instance Crea Instance Crea Instance Inst Instance Inst Instance Inst Item Descript Manufacturer	ired Fuel Sa e: ation Dt: all Dt: tion:	6455793 EXPIREI 1/22/201 1/22/201 FS Liquid	1 D 3 3:59:45 PM 3 3:58:03 PM	336.9/2.69	328 SPEEDVALE AV ON Expired Date: Max Hazard Rank: Facility Location: Facility Type: Fuel Type 2: Fuel Type 3: Panam Related:	V E GUELPH N1E 1N5 ON CA NULL 328 SPEEDVALE AV E GUELF CA FS LIQUID FUEL TANK Gasoline NULL NULL NULL	
Delisted Expi Facilities Instance No: Status: Instance ID: Instance Typ Instance Crea Instance Crea Instance Inst Instance Inst Item Descript Manufacturer Model:	ired Fuel Sa e: ation Dt: all Dt: tion:	6455793 EXPIREI 1/22/201 1/22/201 FS Liquid NULL	1 D 3 3:59:45 PM 3 3:58:03 PM	336.9/2.69	328 SPEEDVALE AV ON Expired Date: Max Hazard Rank: Facility Location: Facility Type: Fuel Type 2: Fuel Type 3: Fuel Type 3: Panam Related: Panam Venue Nm:	V E GUELPH N1E 1N5 ON CA NULL 328 SPEEDVALE AV E GUELF CA FS LIQUID FUEL TANK Gasoline NULL NULL	
Delisted Expi Facilities Instance No: Status: Instance ID: Instance Type Instance Creat Instance Creat Instance Instance Instance Instance Instance Instance Instance Instance Instance	ired Fuel Sa e: ation Dt: all Dt: tion: r:	6455793 EXPIREI 1/22/201 1/22/201 FS Liquid NULL NULL	1 D 3 3:59:45 PM 3 3:58:03 PM	336.9/2.69	328 SPEEDVALE AV ON Expired Date: Max Hazard Rank: Facility Location: Facility Type: Fuel Type 2: Fuel Type 3: Panam Related: Panam Venue Nm: External Identifier:	V E GUELPH N1E 1N5 ON CA NULL 328 SPEEDVALE AV E GUELF CA FS LIQUID FUEL TANK Gasoline NULL NULL NULL	
Delisted Expi Facilities Instance No: Status: Instance ID: Instance Crea Instance Crea Instance Crea Instance Inst Instance Inst Item Descript Manufacturer Model: Serial No: ULC Standard	ired Fuel Sa e: ation Dt: all Dt: tion: r:	6455793 EXPIRED 1/22/201 1/22/201 FS Liquid NULL NULL NULL	1 D 3 3:59:45 PM 3 3:58:03 PM	336.9/2.69	328 SPEEDVALE AV ON Expired Date: Max Hazard Rank: Facility Location: Facility Type: Fuel Type 2: Fuel Type 3: Panam Related: Panam Venue Nm: External Identifier: Item:	V E GUELPH N1E 1N5 ON CA NULL 328 SPEEDVALE AV E GUELF CA FS LIQUID FUEL TANK Gasoline NULL NULL NULL	
Delisted Expi Facilities Instance No: Status: Instance ID: Instance Crea Instance Inst Instance Inst Instance Inst Item Descript Manufacturer Manufacturer Manufacturer Serial No: ULC Standard Quantity:	ired Fuel Sa e: ation Dt: all Dt: tion: r: d:	6455793 EXPIREI 1/22/201 FS Liquid NULL NULL NULL NULL	1 D 3 3:59:45 PM 3 3:58:03 PM	336.9/2.69	328 SPEEDVALE AV ON Expired Date: Max Hazard Rank: Facility Location: Facility Type: Fuel Type 2: Fuel Type 3: Panam Related: Panam Venue Nm: External Identifier: Item: Piping Steel:	V E GUELPH N1E 1N5 ON CA NULL 328 SPEEDVALE AV E GUELF CA FS LIQUID FUEL TANK Gasoline NULL NULL NULL	
Delisted Expi Facilities Instance No: Status: Instance ID: Instance Type Instance Creat Instance Insta Instance Insta Instance Insta Instance Insta Serial No: ULC Standard Quantity: Unit of Measu	ired Fuel Sa e: ation Dt: all Dt: tion: r: d: ure:	6455793 EXPIREI 1/22/201 T/22/201 FS Liquid NULL NULL NULL NULL 1	1 D 3 3:59:45 PM 3 3:58:03 PM	336.9/2.69	328 SPEEDVALE AV ON Expired Date: Max Hazard Rank: Facility Location: Facility Type: Fuel Type 2: Fuel Type 3: Panam Related: Panam Related: Panam Venue Nm: External Identifier: Item: Piping Steel: Piping Galvanized:	V E GUELPH N1E 1N5 ON CA NULL 328 SPEEDVALE AV E GUELF CA FS LIQUID FUEL TANK Gasoline NULL NULL NULL	
Delisted Expl Facilities Instance No: Status: Instance ID: Instance Type Instance Creat Instance Inst Instance Inst Instance Inst Instance Inst Manufacturer Model: Serial No: ULC Standard Quantity: Unit of Measu Overfill Prot	ired Fuel Sa e: ation Dt: all Dt: tion: r: d: ure: Type:	6455793 EXPIREI 1/22/201 TS Liquid NULL NULL NULL NULL 1 EA Alarm	1 D 3 3:59:45 PM 3 3:58:03 PM	336.9/2.69	328 SPEEDVALE AV ON Expired Date: Max Hazard Rank: Facility Location: Facility Type: Fuel Type 2: Fuel Type 3: Panam Related: Panam Venue Nm: External Identifier: Item: Piping Steel: Piping Galvanized: Tank Single Wall St:	V E GUELPH N1E 1N5 ON CA NULL 328 SPEEDVALE AV E GUELF CA FS LIQUID FUEL TANK Gasoline NULL NULL NULL	
Delisted Expi Facilities Instance No: Status: Instance ID: Instance Type Instance Creat Instance Inst Instance Inst Instance Inst Instance Inst Serial No: ULC Standard Quantity: Unit of Measu Overfill Prot	ired Fuel Sa e: ation Dt: all Dt: tion: r: d: ure: Type: e:	6455793 EXPIREI 1/22/201 TS Liquid NULL NULL NULL NULL 1 EA Alarm	1 D 3 3:59:45 PM 3 3:58:03 PM d Fuel Tank	336.9/2.69	328 SPEEDVALE AV ON Expired Date: Max Hazard Rank: Facility Location: Facility Type: Fuel Type 2: Fuel Type 3: Panam Related: Panam Venue Nm: External Identifier: Item: Piping Steel: Piping Galvanized: Tank Single Wall St: Piping Underground:	V E GUELPH N1E 1N5 ON CA NULL 328 SPEEDVALE AV E GUELF CA FS LIQUID FUEL TANK Gasoline NULL NULL NULL	
Delisted Expi Facilities Enstance No: Status: Instance ID: Instance Type Instance Creat Instance Inst Instance Inst Instance Inst Serial No: ULC Standard Quantity: ULC Standard Quantity: Unit of Measu Overfill Prot Creation Date Next Periodic	ired Fuel Sa e: ation Dt: all Dt: tion: r: d: ure: Type: e: Str DT:	6455793 EXPIREI 1/22/201 FS Liquid NULL NULL NULL NULL 1 EA Alarm 1/22/201 NULL	1 D 3 3:59:45 PM 3 3:58:03 PM d Fuel Tank	336.9/2.69	328 SPEEDVALE AV ON Expired Date: Max Hazard Rank: Facility Location: Facility Type: Fuel Type 2: Fuel Type 3: Panam Related: Panam Venue Nm: External Identifier: Item: Piping Steel: Piping Galvanized: Tank Single Wall St: Piping Underground: Tank Underground:	NULL 328 SPEEDVALE AV E GUELF CA FS LIQUID FUEL TANK Gasoline NULL NULL NULL NULL NULL	
Delisted Expi Facilities Instance No: Status: Instance ID: Instance Type Instance Creating Instance Creating Serial No: ULC Standard Quantity: ULC Standard Quantity: ULC Standard Quantity: ULC Standard Quantity: ULC Standard Quantity: Unit of Measu Overfill Prot Creation Date Next Periodic TSSA Base S	ired Fuel Sa e: ation Dt: all Dt: tion: r: d: ure: Type: e: Str DT: Sched Cycle	6455793 EXPIREI 1/22/201 FS Liquid NULL NULL NULL 1 EA Alarm 1/22/201 NULL 22:	1 D 3 3:59:45 PM 3 3:58:03 PM d Fuel Tank 3 3:59:45 PM	336.9/2.69	328 SPEEDVALE AV ON Expired Date: Max Hazard Rank: Facility Location: Facility Type: Fuel Type 2: Fuel Type 3: Panam Related: Panam Venue Nm: External Identifier: Item: Piping Steel: Piping Galvanized: Tank Single Wall St: Piping Underground: Tank Underground:	NULL 328 SPEEDVALE AV E GUELF CA FS LIQUID FUEL TANK Gasoline NULL NULL NULL NULL NULL	
Delisted Expi Facilities Instance No: Status: Instance ID: Instance Type Instance Creating Instance Creating Instance Instance Serial No: ULC Standard Quantity: ULC Standard Quantity: Unit of Measu Overfill Prot Creation Date Next Periodic TSSA Base S TSSAMax Ha	ired Fuel Sa e: ation Dt: all Dt: tion: r: d: ure: Type: e: Str DT: Sched Cycle zard Rank 1	6455793 EXPIREI 1/22/201 FS Liquid NULL NULL NULL 1 EA Alarm 1/22/201 NULL 22: 1:	1 D 3 3:59:45 PM 3 3:58:03 PM d Fuel Tank 3 3:59:45 PM NULL	336.9/2.69	328 SPEEDVALE AV ON Expired Date: Max Hazard Rank: Facility Location: Facility Type: Fuel Type 2: Fuel Type 3: Panam Related: Panam Venue Nm: External Identifier: Item: Piping Steel: Piping Galvanized: Tank Single Wall St: Piping Underground: Tank Underground:	NULL 328 SPEEDVALE AV E GUELF CA FS LIQUID FUEL TANK Gasoline NULL NULL NULL NULL NULL	
Delisted Expi Facilities Instance No: Status: Instance ID: Instance ID: Instance Creation Instance Instance Instance Instance Instance Ins	ired Fuel Sa e: ation Dt: all Dt: tion: r: d: ure: Type: e: Str DT: Sched Cycle zard Rank fa ased Period	6455793 EXPIREI 1/22/201 FS Liquid NULL NULL NULL 1 EA Alarm 1/22/201 NULL 22: 1: dic Yn:	1 D 3 3:59:45 PM 3 3:58:03 PM d Fuel Tank 3 3:59:45 PM NULL NULL	336.9/2.69	328 SPEEDVALE AV ON Expired Date: Max Hazard Rank: Facility Location: Facility Type: Fuel Type 2: Fuel Type 3: Panam Related: Panam Venue Nm: External Identifier: Item: Piping Steel: Piping Galvanized: Tank Single Wall St: Piping Underground: Tank Underground:	NULL 328 SPEEDVALE AV E GUELF CA FS LIQUID FUEL TANK Gasoline NULL NULL NULL NULL NULL	
Delisted Expi Facilities Facilities Instance No: Status: Instance ID: Instance ID: Instance Creat Instance Creat Instance Creat Instance Insta Instance Inst	ired Fuel Sa e: ation Dt: all Dt: tion: r: d: ure: Type: e: Str DT: Sched Cycle zard Rank 1 ased Perioc e of Directiv	6455793 EXPIREI 1/22/201 FS Liquid NULL NULL NULL 1 EA Alarm 1/22/201 NULL 22: 1: dic Yn:	1 D 3 3:59:45 PM 3 3:58:03 PM d Fuel Tank 3 3:59:45 PM NULL NULL NULL	336.9/2.69	328 SPEEDVALE AV ON Expired Date: Max Hazard Rank: Facility Location: Facility Type: Fuel Type 2: Fuel Type 3: Panam Related: Panam Venue Nm: External Identifier: Item: Piping Steel: Piping Galvanized: Tank Single Wall St: Piping Underground: Tank Underground:	NULL 328 SPEEDVALE AV E GUELF CA FS LIQUID FUEL TANK Gasoline NULL NULL NULL NULL NULL	
Delisted Expi Facilities Facilities Instance No: Status: Instance ID: Instance ID: Instance Creat Instance Creat Instance Creat Instance Insta Item Descript Manufacturer Model: Serial No: ULC Standard Quantity: Unit of Measu Overfill Prot Creation Date Next Periodic TSSA Base S TSSA Max Ha TSSA Risk Ba TSSA Periodic	ired Fuel Sa e: ation Dt: all Dt: tion: r: d: ure: Type: e: Str DT: Sched Cycle zard Rank 1 ased Perioc e of Directiv ic Exempt:	6455793 EXPIREI 1/22/201 FS Liquid NULL NULL NULL 1 EA Alarm 1/22/201 NULL 22: 1: dic Yn: ves:	1 D 3 3:59:45 PM 3 3:58:03 PM d Fuel Tank 3 3:59:45 PM NULL NULL NULL NULL	336.9/2.69	328 SPEEDVALE AV ON Expired Date: Max Hazard Rank: Facility Location: Facility Type: Fuel Type 2: Fuel Type 3: Panam Related: Panam Venue Nm: External Identifier: Item: Piping Steel: Piping Galvanized: Tank Single Wall St: Piping Underground: Tank Underground:	NULL 328 SPEEDVALE AV E GUELF CA FS LIQUID FUEL TANK Gasoline NULL NULL NULL NULL NULL	
Delisted Expi Facilities Instance No: Status:	ired Fuel Sa e: ation Dt: all Dt: tion: ': d: ure: Type: e: cored Cycle core of Directiv ic Exempt: ory Interval:	6455793 EXPIREI 1/22/201 7S Liquic NULL NULL NULL 1 EA Alarm 1/22/201 NULL 2: 1: dic Yn: ves:	1 D 3 3:59:45 PM 3 3:58:03 PM d Fuel Tank 3 3:59:45 PM NULL NULL NULL NULL NULL NULL	336.9/2.69	328 SPEEDVALE AV ON Expired Date: Max Hazard Rank: Facility Location: Facility Type: Fuel Type 2: Fuel Type 3: Panam Related: Panam Venue Nm: External Identifier: Item: Piping Steel: Piping Galvanized: Tank Single Wall St: Piping Underground: Tank Underground:	NULL 328 SPEEDVALE AV E GUELF CA FS LIQUID FUEL TANK Gasoline NULL NULL NULL NULL NULL	

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Order No: 23060200052

TSSA Program Area: TSSA Program Area 2: Description: Original Source: Record Date:	NULL NULL				
Description: Original Source:	NULL				
Original Source:	and the second second second second				
	never installed				
Record Date:	EXP				
	31-JUL-2020				
<u>19</u> 24 of 30	NNE/188.1	336.9/2.69		IC - NATIONAL GAS DEPT GUELPH N1E 1N5 ON CA	DTNK
<u>Delisted Expired Fuel Sa</u> Facilities	f <u>ety</u>				
Instance No:	64557930		Expired Date:		
Status:	EXPIRED		Max Hazard Rank:	NULL	
	EXPIRED			-	
Instance ID:			Facility Location:	328 SPEEDVALE AV E GUELF	PH N1E 1N5 OF
Instance Type:			Facility Type:	FS LIQUID FUEL TANK	
Instance Creation Dt:	1/22/2013 3:58:03 PM		Fuel Type 2:	NULL	
Instance Install Dt:	1/22/2013 3:58:03 PM		Fuel Type 3:	NULL	
Item Description:	FS Liquid Fuel Tank		Panam Related:	NULL	
Manufacturer:	NULL		Panam Venue Nm:	NULL	
Model:	NULL		External Identifier:	NULL	
Serial No:	NULL		Item:		
ULC Standard:	NULL		Piping Steel:		
Quantity:	1		Piping Galvanized:		
Unit of Measure:	EA		Tank Single Wall St:		
Overfill Prot Type:	Alarm		Piping Underground:		
Creation Date:	1/22/2013 3:59:33 PM		Tank Underground:		
Next Periodic Str DT:	NULL		Source:	FS Liquid Fuel Tank	
TSSA Base Sched Cycle					
TSSAMax Hazard Rank 1					
TSSA Risk Based Period					
TSSA Volume of Directiv					
	NULL				
TSSA Periodic Exempt: TSSA Statutory Interval:	NULL				
TSSA Recd Insp Interva:	NULL				
TSSA Recd Tolerance:	NULL				
TSSA Program Area:	NULL				
TSSA Program Area 2:	NULL				
Description:	Never installed				
Original Source:	EXP				
Record Date:	31-JUL-2020				
<u>19</u> 25 of 30	NNE/188.1	336.9/2.69	328 SPEEDVALE AV E GUELPH ON N1E 1N5		DTNK
Delisted Fuel Storage Ta	<u>nk</u>				
Instance No:	9764015		Creation Date:		
Status:	Active		Overfill Prot Type:		
Instance Type:			Facility Location:	_	
Fuel Type:			Piping SW Steel:	0	
Cont Name:			Piping SW Galvan:	0	
Capacity:			Tanks SW Steel:	0	
Tank Material:			Piping Underground:	3	
Corrosion Prot:			No Underground:	4	
Tank Type:			Max Hazard Rank:		
Install Year:			Max Hazard Rank 1:		
			Nxt Period Start Dt:		
Facility Type:					
Facility Type: Device Installed Loc:			Program Area 1:		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Fuel Type 2: Fuel Type 3: Item: Item Description: Instance Creat Instance Insta Manufacturer Serial No: ULC Standard Quantity: Unit of Measu Parent Fac Ty TSSA Base St TSSA Base St Original Sour Record Date:	ion: ation Dt: all Dt: : d: rre: rpe: ched Cycle 1: ched Cycle 2: ce:	GASOLINE STATION - SE FST 31-MAY-2021	ELF SERVE	Program Area 2: Nxt Period Strt Dt 2: Risk Based Periodic: Vol of Directives: Years in Service: Created Date: Federal Device: Periodic Exempt: Statutory Interval: Rcomnd Insp Interval: Recommended Toler: Panam Venue Name: External Identifier:	
<u>19</u>	26 of 30	NNE/188.1	336.9/2.69	Cornell Animal Hospital 328 Speedvale Ave. E. Guelph ON N1E 1N5	GEN
Generator No SIC Code: SIC Description Approval Yea PO Box No: Country: Status: Co Admin: Choice of Con Phone No Add Contaminated MHSW Facilit	on: rs: ntact: min: d Facility:	ON9687993 As of Nov 2021 Canada Registered			
<u>Detail(s)</u>					
Waste Class: Waste Class I		312 P Pathological wastes	3		
<u>19</u>	27 of 30	NNE/188.1	336.9 / 2.69	7-Eleven Canada Inc. 328 Speedvale Ave East Guelph ON N1E 1N5	GEN
Generator No SIC Code: SIC Description Approval Yea PO Box No: Country: Status: Co Admin: Choice of Con Phone No Add Contaminated MHSW Facilit	on: rs: ntact: min: d Facility:	ON6405832 As of Nov 2021 Canada Registered			
<u>Detail(s)</u>					
Waste Class: Waste Class I		221 L Light fuels			

Мар Кеу	Number Records		Elev/Diff) (m)	Site		DB
Waste Class Waste Class		221 I Light fuels				
<u>19</u>	28 of 30	NNE/188.1	336.9/2.69	7-Eleven Canada Inc. 328 Speedvale Ave Eas Guelph ON N1E 1N5	st	GEN
Generator N SIC Code:		ON6405832				
SIC Descript Approval Ye PO Box No:	ars:	As of Oct 2022				
Country: Status: Co Admin:		Canada Registered				
Choice of Co Phone No A Contaminate MHSW Facil	dmin: ed Facility:					
<u>Detail(s)</u>						
Waste Class Waste Class		221 L LIGHT FUELS				
Waste Class Waste Class		221 I LIGHT FUELS				
<u>19</u>	29 of 30	NNE/188.1	336.9 / 2.69	Cornell Animal Hospita 328 Speedvale Ave. E. Guelph ON N1E 1N5	al	GEN
Generator N SIC Code:		ON9687993				
SIC Descript Approval Ye PO Box No:		As of Oct 2022				
Country: Status:		Canada Registered				
Co Admin: Choice of Co Phone No A Contaminate MHSW Facil	dmin: ed Facility:					
<u>Detail(s)</u>						
Waste Class Waste Class		261 A PHARMACEUTIO	CALS			
Waste Class Waste Class		312 P PATHOLOGICAI	WASTES			
<u>19</u>	30 of 30	NNE/188.1	336.9 / 2.69	Parsons Inc. 328 Speedvale AVE E Guelph ON N1E 1N5		EASR
Approval No Status: Date: Record Type Link Source	ə:	R-009-1174545854 REGISTERED April 13, 2022 EASR MOFA		MOE District: Municipality: Latitude: Longitude: Geometry X:	Guelph Guelph 43.5675 -80.25805556 -8934285.8764999993	

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Order No: 23060200052

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Project Type: Full Address:	Water	Taking - Construction D	ewatering	Geometry Y:	5398753.9492999986	
Approval Type SWP Area Nan PDF URL: PDF Site Loca	ne:	EASR-Water Taking Grand River http://www.accesser 328 Speedvale Aver Guelph ON N1E 1N	nvironment.ene. nue (ave) East	0	ewDocument.action?documentRefID=262182	8

<u>20</u>	1 of 1		WSW/194.7	331.9/-2.31	Intersection of Glads Guelph ON	tone and Speedvale	SPL
Ref No: Site No: Incident Dt. Year:		6304-A6N NA 2016/01/2			Contaminant Qty: Nature of Damage: Discharger Report: Material Group:	0 other - see incident description	
Incident Ca Incident Ev Environme	ent: nt Impact:	Collision/A	Accident		Health/Env Conseq: Agency Involved: Site Lot:		
Nature of In MOE Respo Dt MOE Arv	onse: vl on Scn:	No			Site Conc: Site Geo Ref Accu: Site Map Datum:	GPS	
MOE Repor Dt Docume Municipalit	nt Closed: y No:	2016/01/2 2016/02/0			Northing: Easting:	4823661 559662	
Client Type Call Report	t Location Ge	odata:	15				
Contaminal Contaminal Contaminal Contam Lin Contaminal	nt Name: nt Limit 1:		15 TRANSMISSION	OIL			
Receiving I	Medium: Environment: eason:		Land Operator/Human E MVA in Guelph: or	Error perating fluids to rd a	nd ch. responding		
Site Regior Site Munici Activity Pre	n:		Guelph				
• •	ertiary Waters e: 1 Class:	shed:	Miscellaneous Col Land Spills	mmunal			
Site County Site Geo Re Site Distric	y/District: ef Meth: t Office:						
Nearest Wa Site Name: Site Addres Client Nam	ss:		Roadway and CB- Intersection of Gla	<unofficial> dstone and Speedva</unofficial>	le		
<u>21</u>	1 of 2		SW/201.9	330.2 / -4.00	PIPELINE HIT - 1 1/4" 261 SPEEDVALE AVE CA ON	E E,,GUELPH,ON,N1E 1M8,	PINC
Incident Id: Incident No Incident Re Type: Status Cod	o: eported Dt:	1861740 5/11/2016 FS-Pipelir	i ne Incident		Pipe Material: Fuel Category: Health Impact: Environment Impact: Property Damage:		

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Imber of ecords	Direction/ Distance (m)	Elev/Diff (m)	Site	Di
tre: Fp: e: Dt: ame:	PIPELINE HIT - 1	1/4"	Service Interrupt: Enforce Policy: Public Relation: Pipeline System: PSIG: Attribute Category: Regulator Location: Method Details: DN,N1E 1M8,CA	
2	SW/201.9	330.2 / -4.00	ELMRIDGE DR 145 APARTMENT BUILDING 261 SPEEDVALE AVE E,,GUELPH,ON,N1E 1M8, CA ON	PINC
T Dt: 12/18 FS-P Pipeli tre: Tp: se: Dt: nme:	8/2015 ipeline Incident ine Damage Reason Es ELMRIDGE DR 14	5 APARTMENT B		
1	ENE/230.6	337.9/3.71	Upper Grand District School Board Edward Johnson Public School 397 Stevenson Street North Guelph ON N1E 5C1	GEN
	ON3056104 611110 Elementary and Se 04	econdary Schools		
	tre: Tp: Se: Dt: ame: 2 2 2 2 2 1774 12/18 FS-P	Pipeline Damage Reason Est fre: Tp: 2017 201	Pipeline Damage Reason Est tre: Tp: :e: Dt: ime: PIPELINE HIT - 1 1/4" 261 SPEEDVALE AVE E,,GUELPH,G 2 SW/201.9 330.2 / -4.00 2 Dt: 12/18/2015 FS-Pipeline Incident Pipeline Damage Reason Est tre: Tp: :e: Dt: imme: ELMRIDGE DR 145 APARTMENT B 261 SPEEDVALE AVE E,,GUELPH,G	Pipeline Damage Reason Est Service Interrupt: Enforce Policy: Public Relation: Pipeline System: Pipeline System: Pipeline System: Pipeline System: Pipeline Damage Reason Est 2 SW/201.9 330.2 / -4.00 2 SW/201.9 330.2 / -4.00 ELMRIDGE DR 145 APARTMENT BUILDING 261 SPEEDVALE AVE E.,GUELPH,ON,NTE 1M8,CA 2 SW/201.9 30.2 / -4.00 ELMRIDGE DR 145 APARTMENT BUILDING 261 SPEEDVALE AVE E.,GUELPH,ON,NTE 1M8,CA 2 SW/201.9 30.2 / -4.00 ELMRIDGE DR 145 APARTMENT BUILDING 261 SPEEDVALE AVE E.,GUELPH,ON,NTE 1M8,CA 2 SW/201.9 30.2 / -4.00 ELMRIDGE DR 145 APARTMENT BUILDING 261 SPEEDVALE AVE E.,GUELPH,ON,NTE 1M8,CA 2 SW/201.9 30.2 / -4.00 ELMRIDGE DR 145 APARTMENT BUILDING 261 SPEEDVALE AVE E.,GUELPH,ON,NTE 1M8,CA 2 SW/201.9 30.2 / -4.00 Fipeline Incident Pipeline Damage Reason Est 9 Fipe Material: Enforce Policy: Pipeline System: Pipeline S

	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site		D
Co Admin: Choice of Cont Phone No Adm Contaminated I MHSW Facility:	in: Facility:					
<u>23</u> 1	of 2	NNE/244.3	337.9 / 3.77	328 SPEEDVALE AV Guelph ON	/E EAST	ww
Well ID: Construction D Use 1st: Use 2nd: Final Well Statu Water Type: Casing Materia Audit No: Tag: Constructn Mel Elevation (m): Elevatn Reliabi Depth to Bedro Well Depth: Dverburden/Be Pump Rate: Static Water Le Clear/Cloudy: Municipality: Site Info:	Monitoring IS: 0 I: Z331471 A273189 thod: Ity: ck: drock: vel:	g GUELPH TOWNSH	IP	Flowing (Y/N): Flow Rate: Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec: Contractor: Form Version: Owner: County: Lot: Concession: Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability:	06-May-2020 00:00:00 TRUE 7675 7 WELLINGTON	
PDF URL (Map) Additional Deta						
Well Completed Year Completed Depth (m): Latitude: Longitude: Path:	d Date: d:	2020/03/12 2020 6.096 43.567062760397 -80.2575807480301				
Bore Hole Infor	mation					
Bore Hole ID: DP2BR: Spatial Status: Code OB: Code OB Desc: Open Hole: Cluster Kind:	10082707	720		Elevation: Elevrc: Zone: East83: North83: Org CS: UTMRC:	17 559954.00 4824057.00 UTM83 4	
Date Completer Remarks: Loc Method De Elevrc Desc: Location Sourc Improvement L Improvement L	sc:	020 00:00:00 on Water Well Recc	rd	UTMRC Desc: Location Method:	margin of error : 30 m - 100 m wwr	

Overburden and Bedrock Materials Interval

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Formation ID	:	1008288561			
Layer:		1			
Color:					
General Colo	r:				
Mat1:		01			
Most Commo	n Material:	FILL			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation To	n Denth	0.0			
Formation En		2.0			
Formation En	nd Depth UOM:	ft			
<u>Overburden a</u> Materials Inte					
Formation ID		1008288562			
Layer:		2			
Color:		-			
General Colo	r•				
Mat1:		28			
Most Commo	n Material	SAND			
Mat2:	in material.	11			
Mat2 Desc:		GRAVEL			
Mat3:		68			
Mat3 Desc:		DRY			
Formation To	n Denth	2.0			
Formation En	nd Denth:	20.0			
	nd Depth UOM:	ft			
	u Depui OOM.	n			
<u>Annular Spac</u> <u>Sealing Reco</u>	<u>e/Abandonment</u> <u>rd</u>				
Plug ID:		1008288572			
Layer:		4			
Plug From:		9.0			
Plug To:		20.0			
Plug Depth U	OM:	ft			
<u>Annular Spac</u> <u>Sealing Reco</u>	e/Abandonment				
-		1008288571			
Plug ID:					
Layer: Blug From		3			
Plug From: Plug To:		2.0 9.0			
		9.0 ft			
Plug Depth U	OM:	π			
<u>Annular Spac</u> <u>Sealing Reco</u>	e/Abandonment rd				
		1008288570			
Plug ID:		1008288570 2			
Layer:					
Plug From:		1.0			
Plug To:		2.0			
Plug Depth U		ft			
<u>Annular Spac</u> <u>Sealing Reco</u>	e/Abandonment rd				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DE
Plug ID:		1008288569			
Layer:		1			
Plug From:		0.0			
Plug To: Plug Dopth II	OM-	1.0 ft			
Plug Depth U	0111:	π			
<u>Method of Co Use</u>	nstruction & Well				
Method Cons		1008288568			
	truction Code:	E			
Method Cons Other Method	truction: Construction:	Auger			
Pipe Informat	tion				
Pipe ID:		1008288560			
Casing No:		0			
Comment: Alt Name:					
Construction	Record - Casing				
Casing ID:		1008288565			
Layer:		1			
Material:					
Open Hole or Depth From:	Material:	0.0			
Depth To:		10.0			
Casing Diam	eter:	2.0			
Casing Diam		inch			
Casing Depth	UOM:	ft			
Construction	Record - Screen				
Screen ID:		1008288566			
Layer:		1			
Slot:	a with a	10			
Screen Top D Screen End D		10.0 20.0			
Screen Mater		5			
Screen Depth		ft			
Screen Diam		inch			
Screen Diam	eter:	2.0			
Water Details					
Water ID:		1008288564			
Layer: Kind Codes					
Kind Code: Kind:					
Kina: Water Found	Depth:				
Water Found		ft			
Hole Diamete	<u>r</u>				
Hole ID:		1008288563			
Diameter:		8.0			
Depth From:		0.0			
Depth To:		20.0 ft			
Hole Depth U					

Map Key	Number Records		Direction/ Distance (m)	Elev/Diff (m)	Site		D
Hole Diameter	· UOM:	i	nch				
<u>Links</u>							
Bore Hole ID:		100827072	20		Tag No:	A273189	
Depth M:	- 4	6.096			Contractor:	7675	
Year Complete Well Complete		2020 2020/03/12	2		Path: Latitude:	43.567062760397	
Audit No:	εu <i>D</i> ι.	Z331471	-		Longitude:	-80.2575807480301	
<u>23</u>	2 of 2		NNE/244.3	337.9 / 3.77	328 SPEEDVALE AV Guelph ON	'E EAST	ww
Well ID:		7357838			Flowing (Y/N):		
Construction	Date:				Flow Rate:		
Use 1st:		Monitoring			Data Entry Status:		
Use 2nd:					Data Src:		
Final Well Star	tus:	0			Date Received:	06-May-2020 00:00:00	
Water Type:					Selected Flag:	TRUE	
Casing Materia	al:	7004474			Abandonment Rec:	7075	
Audit No:		Z331474			Contractor:	7675	
Tag: Constructo M	othodi	A273188			Form Version:	7	
Constructn Me					Owner:	WELLINGTON	
Elevation (m): Elevatn Reliab					County: Lot:	WELLINGTON	
Depth to Bedr					Concession:		
Well Depth:	004.				Concession Name:		
Overburden/B	edrock [.]				Easting NAD83:		
Pump Rate:	curoon.				Northing NAD83:		
Static Water L	evel:				Zone:		
Clear/Cloudy:					UTM Reliability:		
Municipality:		(GUELPH TOWNSH	IIP			
Site Info:							
PDF URL (Map	o):						
Additional De	tail(s) (Maj	<u>p)</u>					
Well Complete			2020/03/12				
Year Complete	ea:		2020 9.144				
Depth (m): Latitude:			9.144 43.567062760397				
Latitude: Longitude:			+3.567062760397 •80.2575807480301	I			
Path:							
Bore Hole Info	ormation						
Bore Hole ID:		100827073	32		Elevation:		
DP2BR:	_				Elevrc:	47	
Spatial Status	:				Zone:	17	
Code OB: Code OB Dos	~ .				East83: North83:	559954.00 4824057.00	
Code OB Deso Open Hole:	<i>.</i>				Org CS:	4824057.00 UTM83	
Cluster Kind:					UTMRC:	4	
Date Complete	ed:	12-Mar-20	20 00:00:00		UTMRC Desc:	4 margin of error : 30 m - 100 m	
Remarks:		12 1001 20			Location Method:	wwr	
Loc Method D	esc:	(on Water Well Reco	ord			
Elevrc Desc:							
Location Sour	rce Date:						
	Location S	Source:					
		Method:					

• •	umber of ecords	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Supplier Comme	nt:				
Overburden and Materials Interval					
Formation ID: Layer: Color: General Color:		1008288606 3			
Mat1: Most Common M Mat2:	aterial:	28 SAND 11			
Mat2 Desc: Mat3: Mat3 Desc:		GRAVEL 91 WATER-BEARING			
Formation Top D Formation End D Formation End D	epth:	20.0 30.0 ft			
Overburden and Materials Interval					
Formation ID: Layer: Color:		1008288604 1			
General Color: Mat1: Most Common M Mat2: Mat2 Desc:	aterial:	01 FILL			
Mat3: Mat3 Desc: Formation Top D Formation End D Formation End D	epth:	0.0 2.0 ft			
Overburden and Materials Interval					
Formation ID: Layer: Color:		1008288605 2			
General Color: Mat1: Most Common M Mat2:	aterial:	28 SAND 11			
Mat2 Desc: Mat3: Mat3 Desc:		GRAVEL 68 DRY			
Formation Top D Formation End D Formation End D	epth:	2.0 20.0 ft			
<u>Annular Space/A</u> <u>Sealing Record</u>	<u>bandonment</u>				
Plug ID: Layer: Plug From: Plug To:		1008288616 4 23.0 30.0			
Plug Depth UOM:	-	ft			

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Annular Spa Sealing Reco	ce/Abandonment_ ord				
Plug ID:		1008288615			
Layer:		3			
Plug From:		2.0			
Plug To:		23.0			
Plug Depth L	JOM:	ft			
<u>Annular Spa</u> Sealing Reco	ce/Abandonment ord				
Plug ID:		1008288613			
Layer:		1			
Plug From:		0.0			
Plug To:		1.0			
Plug Depth L	JOM:	ft			
<u>Annular Space</u> Sealing Reco	<u>ce/Abandonment</u> ord				
Plug ID:		1008288614			
Layer:		2			
Plug From:		1.0			
Plug To:	1014	2.0			
Plug Depth U	JOM:	ft			
<u>Method of Co</u> <u>Use</u>	onstruction & Well				
Method Cons	struction ID:	1008288612			
Method Cons	struction Code:	E			
Method Cons	struction:	Auger			
Other Metho	d Construction:				
<u>Pipe Informa</u>	tion				
Pipe ID:		1008288603			
Casing No:		0			
Comment:					
Alt Name:					
<u>Constructior</u>	<u>n Record - Casing</u>				
Casing ID:		1008288609			
Layer:		1			
Material:					
Open Hole o					
Depth From:		0.0			
Depth To:	-4	25.0			
Casing Diam Casing Diam	eter:	2.0			
Casing Diam Casing Dept	h UOM:	inch ft			
<u>Constructior</u>	<u>n Record - Screen</u>				
Screen ID:		1008288610			
Layer:		1			
Slot:		10			
Screen Top I	Depth:	25.0			
Screen End	Depth:	30.0			

Мар Кеу	Number Records		Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Screen Mater Screen Dept Screen Diam Screen Diam	h UOM: eter UOM:		5 ft inch 2.0				
Water Details	5						
Water ID: Layer: Kind Code: Kind:			1008288608				
Water Found Water Found		И:	ft				
Hole Diamete	<u>er</u>						
Hole ID: Diameter: Depth From: Depth To: Hole Depth U Hole Diamete	IOM:		1008288607 8.0 0.0 30.0 ft inch				
<u>Links</u>							
Bore Hole ID. Depth M: Year Comple Well Complet Audit No:	ted:	1008270 9.144 2020 2020/03/ Z331474	'12		Tag No: Contractor: Path: Latitude: Longitude:	A273188 7675 43.567062760397 -80.2575807480301	
<u>24</u>	1 of 5		NE/245.4	337.9 / 3.73	1865088 Ontari 328-386 Speed Guelph ON		GEN
Generator No SIC Code: SIC Descripti Approval Yea PO Box No: Country: Status: Co Admin: Choice of Co Phone No Ao Contaminate MHSW Facilit	ion: ars: ontact: Imin: d Facility:		ON6318298 531310 REAL ESTATE PR 2013	OPERTY MANAG	ERS		
<u>Detail(s)</u>							
Waste Class: Waste Class			263 ORGANIC LABOR	ATORY CHEMICA	LS		
<u>24</u>	2 of 5		NE/245.4	337.9 / 3.73	1865088 Ontari 328-386 Speedy Guelph ON N1E	vale Ave East	GEN
Generator No SIC Code: SIC Descripti Approval Yea	ion:		ON6318298 531310 REAL ESTATE PR 2016	OPERTY MANAG	ERS		
	aviainta an		conmental Risk Inf			Onder Ne	· 23060200052

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DE
PO Box No:					
Country:		Canada			
Status:					
Co Admin:		Randy Barkhouse			
Choice of Co		CO_ADMIN			
Phone No Ad		519-741-5774 Ext.			
Contaminated MHSW Facilit		No No			
	у.	NO			
<u>Detail(s)</u>					
Waste Class: Waste Class		263 ORGANIC LABORA	TORY CHEMICALS		
24	3 of 5	NE/245.4	337.9/3.73	1865088 Ontario Ltd 328-386 Speedvale Ave East	GEN
				Guelph ON N1E 6A7	
Generator No	:	ON6318298			
SIC Code:		531310			
SIC Descripti Approval Yea PO Box No:		2015	OPERTY MANAGERS)	
Country: Status:		Canada			
Co Admin:		Randy Barkhouse			
Choice of Co	ntact:	CO_ÁDMIN			
Phone No Ad		519-741-5774 Ext.			
Contaminated		No			
MHSW Facilit	y:	No			
<u>Detail(s)</u>					
Waste Class: Waste Class		263 ORGANIC LABORA	TORY CHEMICALS		
<u>24</u>	4 of 5	NE/245.4	337.9 / 3.73	1865088 Ontario Ltd 328-386 Speedvale Ave East Guelph ON N1E 6A7	GEN
Generator No):	ON6318298			
SIC Code:		531310			
SIC Descripti Approval Yea PO Box No:		2014	OPERTY MANAGERS		
Country: Status:		Canada			
Co Admin:		Randy Barkhouse			
Choice of Co	ntact:	CO_ADMIN			
Phone No Ad		519-741-5774 Ext.			
Contaminated		No			
MHSW Facilit	y:	No			
<u>Detail(s)</u>					
Waste Class:		263			
Waste Class	Name:	ORGANIC LABORA	TORY CHEMICALS		
24	5 of 5	NE/245.4	337.9 / 3.73	1865088 Ontario Ltd 328-386 Speedvale Ave East	GEN

iity: 7277237 Monitori Observa Z232711 A21349	ng ation Wells	nic chemicals 337.2 / 3.00	328 SPEEDVALE AV Guelph ON Flowing (Y/N): Flow Rate: Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec: Contractor: Form Version: Owner: County:	/E E 16-Dec-2016 00:00:00 TRUE 7238 7 WELLINGTON	WWI
727723 Monitori Observa Z23271 A21349	Canada Registered 263 L Misc. waste organ <i>NNE/249.4</i> 7 ng ation Wells		Guelph ON Flowing (Y/N): Flow Rate: Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec: Contractor: Form Version: Owner:	16-Dec-2016 00:00:00 TRUE 7238 7	ww
727723 Monitori Observa Z23271 A21349	Registered 263 L Misc. waste organ <i>NNE/249.4</i> 7 ng ation Wells		Guelph ON Flowing (Y/N): Flow Rate: Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec: Contractor: Form Version: Owner:	16-Dec-2016 00:00:00 TRUE 7238 7	wwi
727723 Monitori Observa Z23271 A21349	Registered 263 L Misc. waste organ <i>NNE/249.4</i> 7 ng ation Wells		Guelph ON Flowing (Y/N): Flow Rate: Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec: Contractor: Form Version: Owner:	16-Dec-2016 00:00:00 TRUE 7238 7	wwi
727723 Monitori Observa Z23271 A21349	263 L Misc. waste organ <i>NNE/249.4</i> 7 ng ation Wells		Guelph ON Flowing (Y/N): Flow Rate: Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec: Contractor: Form Version: Owner:	16-Dec-2016 00:00:00 TRUE 7238 7	wwi
727723 Monitori Observa Z23271 A21349	Misc. waste organ NNE/249.4 7 ng ation Wells		Guelph ON Flowing (Y/N): Flow Rate: Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec: Contractor: Form Version: Owner:	16-Dec-2016 00:00:00 TRUE 7238 7	ww
727723 Monitori Observa Z23271 A21349	Misc. waste organ NNE/249.4 7 ng ation Wells		Guelph ON Flowing (Y/N): Flow Rate: Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec: Contractor: Form Version: Owner:	16-Dec-2016 00:00:00 TRUE 7238 7	wwi
7277237 Monitori Observa Z232711 A21349	Misc. waste organ NNE/249.4 7 ng ation Wells		Guelph ON Flowing (Y/N): Flow Rate: Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec: Contractor: Form Version: Owner:	16-Dec-2016 00:00:00 TRUE 7238 7	ww
7277237 Monitori Observa Z232711 A21349	Misc. waste organ NNE/249.4 7 ng ation Wells		Guelph ON Flowing (Y/N): Flow Rate: Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec: Contractor: Form Version: Owner:	16-Dec-2016 00:00:00 TRUE 7238 7	ww
7277237 Monitori Observa Z232711 A21349	NNE/249.4		Guelph ON Flowing (Y/N): Flow Rate: Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec: Contractor: Form Version: Owner:	16-Dec-2016 00:00:00 TRUE 7238 7	WWI
7277233 Monitori Observa Z232711 A21349	7 ng tion Wells	337.2 / 3.00	Guelph ON Flowing (Y/N): Flow Rate: Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec: Contractor: Form Version: Owner:	16-Dec-2016 00:00:00 TRUE 7238 7	WWI
Monitori Observa Z232711 A21349	ng ation Wells		Flow Rate: Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec: Contractor: Form Version: Owner:	TRUE 7238 7	
Observa Z23271 A21349	ation Wells		Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec: Contractor: Form Version: Owner:	TRUE 7238 7	
Observa Z23271 A21349	ation Wells		Data Src: Date Received: Selected Flag: Abandonment Rec: Contractor: Form Version: Owner:	TRUE 7238 7	
Z23271 A21349	5		Selected Flag: Abandonment Rec: Contractor: Form Version: Owner:	TRUE 7238 7	
A21349			Abandonment Rec: Contractor: Form Version: Owner:	7238 7	
A21349			Contractor: Form Version: Owner:	7	
	4		Form Version: Owner:	7	
:				WELLINGTON	
			County:		
			Lot:	WEEEINGTON	
			Concession:		
			Concession Name:		
:k:			Easting NAD83:		
			Northing NAD83: Zone:		
			UTM Reliability:		
	GUELPH TOWNS	SHIP	••••••••••••••••••••••••••••••••••••••		
<u>(Map)</u>					
te:	2016/11/25				
	2016				
		17			
<u>ion</u>					
1006308	3002		Elevation:		
				17	
			East83:	559928.00	
			North83:	4824073.00	
			Org CS: UTMRC:	UTM83 4	
	ie: ion	(<u>Map)</u> te: 2016/11/25 2016 18.5928 43.56720890559 -80.25790091469	e: 2016/11/25 2016 18.5928 43.5672089055917 -80.2579009146942	GUELPH TOWNSHIP (Map) te: 2016/11/25 2016 18.5928 43.5672089055917 -80.2579009146942 on 1006308002 Elevation: Elevrc: Zone: East83: North83: Org CS: UTMRC:	GUELPH TOWNSHIP (Map) Me: 2016/11/25 2016 18.5928 43.5672089055917 -80.2579009146942 Mortha3: 559928.00 Northa3: 4824073.00 Org CS: UTM83

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site		DB
Date Completed: 25-Nov-2016 00:00:00		UTMRC Desc:	margin of error : 30 m - 100 m			
Improvement	rce Date: Location Source: Location Method: ion Comment:	on Water Well Reco	rd	Location Method:	wwr	
<u>Overburden a</u> Materials Inte						
Formation ID: Layer: Color: General Color		1006499285 3				
Mat1: Most Commo		28 SAND				
Mat2: Mat2 Desc: Mat3:		91				
Mat3 Desc: Formation To Formation En		WATER-BEARING 15.0 40.0 ft				
<u>Overburden a</u> Materials Inte						
Formation ID:		1006499284				
Layer: Color: General Coloi	:	2				
Mat1: Most Commo Mat2:	n Material:	06 SILT 34				
Mat2 Desc: Mat3:		TILL				
Mat3 Desc: Formation To Formation En Formation En		2.0 15.0 ft				
<u>Overburden a</u> Materials Inte						
Formation ID: Layer:		1006499286 4				
Color: General Color Mat1:	<u></u>	26				
Most Commo Mat2: Mat2 Desc: Mat3:	n Material:	ROCK				
Mat3 Desc: Formation To Formation En Formation En	p Depth: d Depth: d Depth UOM:	40.0 61.0 ft				

Overburden and Bedrock

	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Materials Interv	<u>ral</u>				
Formation ID: Layer: Color:		1006499283 1			
General Color:					
Mat1:		01			
Most Common Mat2:	Material:	FILL			
Mat2 Desc: Mat3: Mat3 Desc:					
Formation Top	Depth:	0.0			
Formation End Formation End	Depth:	2.0 ft			
<u>Annular Space/</u> Sealing Record					
Plug ID:		1006499295			
Layer:		1			
Plug From:		0.0			
Plug To: Plug Depth UO	М:	1.0 ft			
<u>Annular Space/</u> Sealing Record					
Plug ID:		1006499297			
Layer:		3			
Plug From:		2.0			
Plug To: Plug Depth UO	М:	46.0 ft			
<u>Annular Space/</u> Sealing Record					
Plug ID:		1006499296			
Layer:		2			
Plug From: Plug To:		1.0 2.0			
Plug Depth UO	М:	ft			
<u>Annular Space/</u> Sealing Record	Abandonment				
Plug ID:		1006499298			
Layer:		4			
Plug From:		46.0			
Plug To: Plug Depth UO	М:	61.0 ft			
<u>Method of Cons</u> <u>Use</u>	struction & Well				
Method Constru Method Constru Method Constru Other Method C	uction Code: uction:	1006499294			

Pipe Information

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Pipe ID: Casing No: Comment: Alt Name:		1006499282 0			

Construction Record - Casing

Casing ID:	1006499291
Layer:	2
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	0.0
Depth To:	48.0
Casing Diameter:	2.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	1006499290
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	0.0
Depth To:	41.0
Casing Diameter:	5.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Screen

Screen ID:	1006499292
Layer:	1
Slot:	10
Screen Top Depth:	48.0
Screen End Depth:	58.0
Screen Material:	5
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	

Water Details

Water ID:	1006499289
Layer:	
Kind Code:	
Kind:	
Water Found Depth:	
Water Found Depth UOM:	ft
-	

Hole Diameter

Hole ID:	1006499288
Diameter:	4.0
Depth From:	40.0
Depth To:	61.0
Hole Depth UOM:	ft
Hole Diameter UOM:	inch

Hole Diameter

Мар Кеу	Number Records		Direction/ Distance (m)	Elev/Diff (m)	Site		DE
Hole ID: Diameter: Depth From: Depth To: Hole Depth U(Hole Diameter			1006499287 8.0 0.0 40.0 ft inch				
<u>Links</u>							
Bore Hole ID: Depth M: Year Complete Well Complete Audit No:		1006308 18.5928 2016 2016/11/ Z232715	/25		Tag No: Contractor: Path: Latitude: Longitude:	A213494 7238 727\7277237.pdf 43.5672089055917 -80.2579009146942	
<u>26</u>	1 of 2		NNW/253.4	338.9 / 4.69	Union Gas Limited 7 Lilac Place Guelph ON		SPL
Ref No: Site No: Incident Dt: Year: Incident Cause Incident Event Environment I Nature of Impa MOE Response Dt MOE Arvl o MOE Reported Dt Document	t: Impact: act: se: on Scn: d Dt:	3423-AC NA 2016/08/ Leak/Bre No 2016/08/	'08 eak		Contaminant Qty: Nature of Damage: Discharger Report: Material Group: Health/Env Conseq: Agency Involved: Site Lot: Site Conc: Site Geo Ref Accu: Site Map Datum: Northing: Easting:	ΟL	
Nunicipality N System Facilit Client Type: Call Report Lc Contaminant I Contaminant I Contaminant I Contam Limit Contam Limit	lo: ty Address ocation Geo Code: Name: Limit 1: Freq 1:		35 NATURAL GAS (N	IETHANE)	Luoung.		
Receiving Med Receiving Env Incident Reas Incident Sum Site Region: Site Municipal Activity Prece	vironment: on: mary: lity: ding Spill:		Air Operator/Human E TSSA FSB: 1/2" P Guelph		Э.		
Property 2nd Property Terti Sector Type: SAC Action Cl Source Type: Site County/D Site Geo Ref I Site District O	ary Waters lass: istrict: Meth:		Miscellaneous Ind TSSA - Fuel Safet		arbon Fuel Release/Spill		
Nearest Water Site Name: Site Address: Client Name:	course:		Guelph PL strike s 7 Lilac Place Union Gas Limitec				

Map Key	Number Records		Elev/Diff (m)	Site		Ľ
<u>26</u>	2 of 2	NNW/253.4	338.9 / 4.69	PIPELINE HIT - 1/2" 7 LILAC PLACE,,GUE ON	LPH,ON,N1E 1K2,CA	PIN
ncident Id: ncident No: ncident Rep ype: tatus Code	oorted Dt:	1920446 8/10/2016 FS-Pipeline Incident		Pipe Material: Fuel Category: Health Impact: Environment Impact: Property Damage:		
ank Status ask No: pills Action uel Type:	:	Non Mandated		Service Interrupt: Enforce Policy: Public Relation: Pipeline System:		
uel Occurr ate of Occi ccurrence epth:	urrence: Start Dt:		(o))	PSIG: Attribute Category: Regulator Location: Method Details:		
Customer A Incident Add Operation T Pipeline Type Regulator T Cummary: Reported By filiation: Occurrence Damage Rea Iotes:	dress: ype: be: ype: /: Desc:	PIPELINE HIT - 1, 7 LILAC PLACE,,(IZ" GUELPH,ON,N1E	1K2,CA		
<u>27</u>	1 of 4	NNE/276.7	337.8 / 3.64	328-386 Speedvale Av Guelph ON N1E 1N6	<i>venue</i>	EH
Order No: Status: Report Type Report Date Date Receiv Previous Sit ot/Building Additional II	: ed: te Name:	21022600008 C Custom Report 03-MAR-21 26-FEB-21		Nearest Intersection: Municipality: Client Prov/State: Search Radius (km): X: Y:	ON .25 -80.2580345 43.56749442	
<u>27</u>	2 of 4	NNE/276.7	337.8 / 3.64	328-386 Speedvale Av Guelph ON N1E 1N6	/enue	Eŀ
rder No: tatus: eport Type eport Date ate Receiv revious Sit ot/Building dditional li	: ed: te Name:	21022600008 C Custom Report 03-MAR-21 26-FEB-21		Nearest Intersection: Municipality: Client Prov/State: Search Radius (km): X: Y:	ON .25 -80.2580345 43.56749442	
<u>27</u>	3 of 4	NNE/276.7	337.8 / 3.64	328-386 Speedvale Av Guelph ON N1E 1N6	/enue	Eŀ
rder No: tatus: eport Type eport Date		21022600008 C Custom Report 03-MAR-21		Nearest Intersection: Municipality: Client Prov/State: Search Radius (km):	ON .25	

erisinfo.com | Environmental Risk Information Services

Order No: 23060200052

Мар Кеу	Number Records		Elev/Diff m) (m)	Site		DE
Previous Sit Lot/Building Additional II				Y:	43.56749442	
<u>27</u>	4 of 4	NNE/276.7	337.8 / 3.64	328-386 Speedvale Av Guelph ON N1E 1N6	enue	EHS
Order No:		21022600008		Nearest Intersection:		
Status:		С		Municipality:		
Report Type): 	Custom Report		Client Prov/State:	ON	
Report Date		03-MAR-21		Search Radius (km):	.25	
Date Receiv		26-FEB-21		X:	-80.2580345	
Previous Sit				Y:	43.56749442	
Lot/Building Additional II	y Size: nfo Ordered:					
<u>28</u>	1 of 3	N/280.2	337.9 / 3.69	330 Speedvale Ave. E. Guelph ON N1E 1N5		SPL
				•	500 1	
Ref No:		7863-75Y2H5		Contaminant Qty:	500 L	
Site No:				Nature of Damage:		
Incident Dt: Year:				Discharger Report: Material Group:	Chemicals	
Incident Cau	160.	Other Discharges		Health/Env Conseq:	Chemicals	
Incident Eve		Other Discharges		Agency Involved:		
Environmen		Possible		Site Lot:		
Nature of Im		Surface Water Pollution		Site Conc:		
MOE Respo		No Field Response		Site Geo Ref Accu:		
Dt MOE Arv				Site Map Datum:		
MOE Report		8/10/2007		Northing:		
Dt Documer				Easting:		
Municipality	No:			0		
	ility Address	:				
Client Type:						
	Location Ge	odata:				
Contaminan	t Code:	27				
Contaminan	t Name:	ORGANIC MA	FERIAL			
Contaminan	t Limit 1:					
Contam Lim	it Freq 1:					
Contaminan						
Receiving M		Water				
•	nvironment:					
Incident Rea			son not determined			
Incident Sur		Food Basics: 5	00L Organic Food Liq	uid Waste to CB		
Site Region:						
Site Municip		Guelph				
	ceding Spill:					
	d Watershed					
	rtiary Waters					
Sector Type		Other				
SAC Action Source Type						
Source Type						
Site County, Site Geo Re						
Site District						
Nearest Wat						
Nearest wat Site Name:	ercourse.	Food Basics <u< td=""><td></td><td></td><td></td><td></td></u<>				
Site Name. Site Addres	¢.					
Client Name						
Such Naille	•					

Map Key	Number Records		Elev/Diff (m)	Site		DB
<u>28</u>	2 of 3	N/280.2	337.9 / 3.69	BYRON FOOD MAI 330 SPEEDVALE A GUELPH ON N1E1	VENUE EAST	PES
Detail Licen Licence No: Status: Approval Da Report Soul Licence Typ Licence Cla Licence Col Latitude: Longitude: Lot: Concession Region: District: County: Trade Name PDF URL:	ate: rce: be Code: ss: ntrol:	10381 Legacy Licenses (Excluding Retail Vendor Class 03 21 03	TS)	Operator Box: Operator Class: Operator No: Operator Type: Oper Area Code: Oper Area Code: Operator Ext: Operator Lot: Oper Concession: Operator Region: Operator District: Operator County: Op Municipality: Post Office Box: MOE District: SWP Area Name:	519 8372000	

<u>28</u>	3 of 3	N/280.2	337.9 / 3.69	330 Speedvale Ave E Guelph ON	āst	SPL
Ref No:		6545-BF2NY4		Contaminant Qty:	20 L	
Site No:		NA		Nature of Damage:		
Incident Dt:	:	8/13/2019		Discharger Report:		
Year: Incident Ca				Material Group:	2 Minor Environment	
Incident Ca		Leak/Break		Health/Env Conseq: Agency Involved:	2 - Minor Environment	
Environme		Lean Diean		Site Lot:		
Nature of In				Site Conc:		
MOE Respo		No		Site Geo Ref Accu:		
Dt MOE Arv				Site Map Datum:		
MOE Repor	rted Dt:	8/14/2019		Northing:	4806418	
Dt Docume	nt Closed:			Easting:	552724	
Municipalit				-		
	cility Address	5:				
Client Type						
	Location Ge					
Contaminal		44	05			
Contaminal		SEWAGE SLUD	GE			
Contaminal Contam Lin						
	nt UN No 1:	n/a				
Receiving I		Π/α				
•	Environment.	Land				
Incident Re			- Poor Design/Substa	andard Material		
Incident Su	ımmary:	Sanitary sewer s	urcharging to CB			
Site Region	n:	West Central				
Site Munici	pality:	Guelph				
•	eceding Spill					
	nd Watershed					
	ertiary Water					
Sector Type		Miscellaneous C	ommunal			
SAC Action		Land Spills Sewer (Private c	r Municipal)			
Source Typ		County of Wellin	• •			
Site Geo Re		County of Wellin	gion			
Site Distric		Guelph				
Nearest Wa						
Site Name:		spill <unoffici <="" th=""><th>AL></th><th></th><th></th><th></th></unoffici>	AL>			

		Elev/Diff (m)	Site		DB
5: :	330 Speedvale Av	e East			
1 of 2	NE/283.2	338.9 / 4.69	Union Gas Ltd 343 Speedvale Ave Eas Guelph ON	t	SPL
ise: nt: t Impact: pact: 1se:	3375-8Z4JXP 15-OCT-12 Leak/Break Confirmed Air Pollution Not MOE mandate		Contaminant Qty: Nature of Damage: Discharger Report: Material Group: Health/Env Conseq: Agency Involved: Site Lot: Site Conc: Site Geo Ref Accu:	0 other - see incident description	
on Scn: ed Dt: t Closed: No: lity Address	15-OCT-12 18-OCT-12		Site Map Datum: Northing: Easting:		
t Code: t Name: t Limit 1: it Freq 1: t UN No 1: edium: nvironment: ison:	35 NATURAL GAS (N Operator/Human E	Error	safe		
ality: eding Spill: d Watershed	Guelph	piasue inte surke, .	Sale		
Class: Class: District: Meth: Office:	Pipeline/Compone		arbon Fuel Release/Spill		
ercourse: S: :					
2 of 2	NE/283.2	338.9 / 4.69	2" Pipeline Hit 343 SPEEDVALE AVEN N1E 1N6,CA ON	UE EAST,,GUELPH,ON,	PINC
oorted Dt: : : : : : : : : : :	919760 10/15/2012 FS-Pipeline Incident Not Investigated		Pipe Material: Fuel Category: Health Impact: Environment Impact: Property Damage: Service Interrupt: Enforce Policy: Public Relation: Pipeline System:		
	Records	Records Distance (m) 330 Speedvale Ave 330 Speedvale Ave 1 of 2 NE/283.2 3375-8Z4JXP 15-OCT-12 sse: Leak/Break nt: timpact: Confirmed pact: Air Pollution nse: Not MOE mandate on Scn: Bed Dt: ed Dt: 15-OCT-12 t Closed: 18-OCT-12 t Code: 35 t Name: NATURAL GAS (Note that the second t	Records Distance (m) (m) 330 Speedvale Ave East 330 Speedvale Ave East 1 of 2 NE/283.2 338.9/4.69 3375-8Z4JXP 15-OCT-12 Isse: Leak/Break nt: timpact: Confirmed pact: Air Pollution rse: Not MOE mandate on Scn: ed Dt: 15-OCT-12 t Cosed: 18-OCT-12 t Cosed: 18-OCT-12 t Code: 35 t Amme: NATURAL GAS (METHANE) t limit 1: treding t Freq 1: Coderess: Socation Geodata: Socation Geodata: t Code: 35 Name: NATURAL GAS (METHANE) t limit 1: treding Spill: t Watershed: TSSA FSB: 2 inch plastic line strike, ality: Guelph reding Spill: Pipeline/Components Class: TSSA - Fuel Safety Branch - Hydroca ': District: ''Meth: Opfrice: errourse: plaza 2 of 2 NE/283.2 338.9/4.69	Records Distance (m) (m) 330 Speedvale Ave East 330 Speedvale Ave East 1 of 2 NE283.2 338.9/4.69 Union Gas Ltd 343 Speedvale Ave Eas Guelph ON 3375-824.JXP Contaminant Qy: Nature of Damage: Discharger Report: Material Group: Material Group: Inse: Net/Res 1 soc.T-12 Discharger Report: Material Group: Material Gr	Records Distance (m) (m) 330 Speedvale Ave East 330 Speedvale Ave East 1 of 2 NE283.2 338.9 / 4.69 Union Das Ltd 3/3 Speedvale Ave East 3375-624UXP Contaminant Qy: 0 other - see incident description 3375-624UXP Contaminant Qy: 0 other - see incident description 3375-624UXP Contaminant Qy: 0 other - see incident description set: Leak/Break Health/Env Conseq: Material Group: 0 other - see incident description set: Leak/Break Health/Env Conseq: Material Group: 0 other - see incident description set: Leak/Break Health/Env Conseq: Material Group: 0 other - see incident description set: Leak/Break Site Conc: Site Group: Site Conc: Site Group: Site Conc: Site Group: set: Not MOE mandate Site Conc: Site Group: Site Group: set: Not MOE mandate Site Group: set: Site Group: Site Group: transcription: Operator/Human Error Site Group: seting Split.

Map Key	Number Records		Elev/Diff n) (m)	Site		DB
Fuel Occurre Date of Occu Occurrence Depth: Customer Add Operation Ty Pipeline Typ Regulator Ty Summary: Reported By Affiliation: Occurrence Damage Rea Notes:	urrence: Start Dt: cct Name: dress: ype: ype: ype: r: Desc:	2" Pipeline Hit 343 SPEEDVAL	E AVENUE EAST,,G	PSIG: Attribute Category: Regulator Location: Method Details: GUELPH,ON,N1E 1N6,CA		
<u>30</u>	1 of 11	NE/294.9	338.8 / 4.61	TDL GROUP LTD. 328-378 SPEEDVALE GUELPH CITY ON	AVENUE	CA
Certificate #. Application Issue Date: Approval Ty Status: Application Client Name Client Addre Client City:	Year: pe: Type: :	8-2099-97- 97 5/28/1997 Industrial air Approved				
Client Posta Project Desc Contaminan Emission Co	cription: ts:	KITCHEN EXHA Odour/Fumes Other - Air	UST HOOD FOR TI	M HORTON'S		
<u>30</u>	2 of 11	NE/294.9	338.8 / 4.61	328-386 Speedvale A Guelph ON N1E 1N5	ve East	EHS
Order No: Status: Report Type Report Date: Date Receive Previous Sit Lot/Building Additional Ir	: ed: e Name: v Size:	20080721009 C Custom Report 7/30/2008 7/21/2008 Fire Insur. Maps	And /or Site Plans	Nearest Intersection: Municipality: Client Prov/State: Search Radius (km): X: Y:	ON 0.25 -694444.444444 -694444.444444	
<u>30</u>	3 of 11	NE/294.9	338.8 / 4.61	THE BARGAIN! SHOI (STORE#52961) 328 - 378 SPEEDVAL GUELPH ON N1E1N5	EAVE	PES
Detail Licence Licence No: Status: Approval Da Report Sour Licence Typ Licence Clas Licence Con	tte: ce: e: e Code: ss:	Vendor		Operator Box: Operator Class: Operator No: Operator Type: Oper Area Code: Oper Phone No: Operator Ext: Operator Lot: Oper Concession:		

Map Key	Number o Records		Elev/Diff n) (m)	Site	DB
Latitude: Longitude: Lot: Concession: Region: District: County: Trade Name: PDF URL:				Operator Region: Operator District: Operator County: Op Municipality: Post Office Box: MOE District: SWP Area Name:	
<u>30</u>	4 of 11	NE/294.9	338.8 / 4.61	HREIT Corporation 27 328-378 Speedvale Ave E Guelph ON	GEN
Generator No SIC Code: SIC Descripti Approval Yea PO Box No: Country: Status: Co Admin: Choice of Cou Phone No Ad Contaminated MHSW Facilit	ion: ars: ntact: Imin: d Facility:	ON4298406 531310 Real Estate Prope 2009	erty Managers		
<u>Detail(s)</u>					
Waste Class: Waste Class		241 HALOGENATED	SOLVENTS		
<u>30</u>	5 of 11	NE/294.9	338.8 / 4.61	Huntingdon-Reit 328-378 Speedvale Drive Guelph ON N1E 1N5	GEN
Generator No SIC Code: SIC Descripti Approval Yea PO Box No: Country: Status: Co Admin: Choice of Col Phone No Ad Contaminated MHSW Facilit	ion: ars: ntact: Imin: d Facility:	ON3817121 531190 Lessors of Other H 2010	Real Estate Property		
<u>Detail(s)</u>					
Waste Class: Waste Class		241 HALOGENATED	SOLVENTS		
<u>30</u>	6 of 11	NE/294.9	338.8 / 4.61	THE BARGAIN! SHOP HOLDINGS INC. (STORE#52961) 328 - 378 SPEEDVALE AVE GUELPH ON N1E 1N5	PES
Detail Licence Licence No:	e No:	23-01-15693-0		Operator Box: Operator Class:	

Map Key Num Reco)irection/)istance (m)	Elev/Diff (m)	Site		DB
Status: Approval Date: Report Source: Licence Type: Licence Type Code: Licence Class: Licence Control: Latitude: Longitude: Longitude: Lot: Concession: Region: District: County: Trade Name: PDF URL:	LIMITED			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:		
<u>30</u> 7 of 11	NE	5/294.9	338.8 / 4.61	THE BARGAIN! SHOP (STORE#52961) 328 - 378 SPEEDVALE GUELPH ON N1E1N5		PES
Detail Licence No: Licence No: Status: Approval Date: Report Source: Licence Type: Licence Type Code: Licence Class: Licence Control: Latitude: Longitude: Longitude: Lot: Concession: Region: District: County: Trade Name: PDF URL:	15693 Legacy Licens Limited Vendo 23 01	es (Excluding T	S)	Operator Box: Operator Class: Operator No: Operator Type: Oper Area Code: Oper Phone No: Operator Ext: Operator Lot: Operator Counts: Operator Region: Operator District: Operator County: Op Municipality: Post Office Box: MOE District: SWP Area Name:	519 8229533	
30 8 of 11	NE	5/294.9	338.8 / 4.61	328 Speedvale Comm 328-378 Speedvale Av Guelph ON N1E 1N5		GEN
Generator No: SIC Code: SIC Description:	ON8	3306435				
Approval Years:	As c	of Jul 2020				
PO Box No: Country:	Can	ada				
Status: Co Admin: Choice of Contact: Phone No Admin: Contaminated Facilit	Reg	istered				
MHSW Facility:						
MHSW Facility: <u>Detail(s)</u>						

Мар Кеу	Number Records		Direction/ Distance (m	Elev/Diff) (m)	Site		DB
Waste Class	Name:		Halogenated solv	vents and residues			
<u>30</u>	9 of 11		NE/294.9	338.8 / 4.61	Unknown <unofficia 378 Speedvale Avenu Guelph ON</unofficia 		SPL
Ref No: Site No: Incident Dt:		4554-BR NA 2020/06/			Contaminant Qty: Nature of Damage: Discharger Report:	0 other - see incident description	
Year: Incident Cau Incident Eve Environmen	nt:	Other			Material Group: Health/Env Conseq: Agency Involved: Site Lot:	2 - Minor Environment	
Nature of Im MOE Respondent	pact: nse:	No			Site Conc: Site Geo Ref Accu: Site Map Datum:		
MOE Report Dt Documen Municipality	ed Dt: t Closed:	2020/06/	30		Northing: Easting:	4824078.3 560063.63	
System Faci Client Type: Call Report I	Location Ge						
Contaminan Contaminan Contaminan	t Name: t Limit 1:		96 MILK PRODUCT				
Contam Lim Contaminan Receiving M Receiving E	t UN No 1: edium:		n/a Land: Surface W	ater; Source Water Z	'one		
Incident Rea Incident Sun Site Region:	nson: nmary:		Equipment Failur	e	nilk, 5 CB's, contained		
Site Municip Activity Pred Property 2nd	ality: ceding Spill: d Watershed	l:	Guelph				
Property Ten Sector Type SAC Action Source Type	: Class:	shed:	Miscellaneous Co Watercourse Spi Container/Drum/	lls			
Site County/ Site Geo Rel Site District	District: Meth:		County of Welling				
Nearest Wat Site Name: Site Address Client Name	S:			venue East, Guelph venue East, Guelph FICIAL>	<unofficial></unofficial>		
<u>30</u>	10 of 11		NE/294.9	338.8 / 4.61	328 Speedvale Comm 328-378 Speedvale Av Guelph ON N1E 1N5		GEN
Generator N SIC Code:			ON8306435				
SIC Descript Approval Ye PO Box No:			As of Nov 2021				
Country: Status: Co Admin: Choice of Co Phone No Ad			Canada Registered				
Contaminate MHSW Facili							

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DE
Detail(s)					
<i>Naste Class Naste Class</i>		241 L Halogenated solve	ents and residues		
<u>30</u>	11 of 11	NE/294.9	338.8 / 4.61	328 Speedvale Commercial Centre Inc. 328-378 Speedvale Ave. East Guelph ON N1E 1N5	GEN
Generator No SIC Code:		ON8306435			
SIC Descript Approval Ye PO Box No:		As of Oct 2022			
Country: Status: Co Admin: Choice of Co		Canada Registered			
Phone No Ac Contaminate MHSW Facili	ed Facility:				
<u>Detail(s)</u>					
<i>Naste Class Naste Class</i>		241 L HALOGENATED S	SOLVENTS		
<u>31</u>	1 of 1	SSE/295.9	330.9 / -3.31	102 EMMA STREET GUELPH ON N1E 1T8	HINC
External File Fuel Occurre Date of Occu Fuel Type In Status Desc: Job Type De Oper. Type I Service Inter Property Dar Fuel Life Cyc	ence Type: urrence: volved: : sc: nvolved: rruptions: mage:	FS INC 0807-0359 Pipeline Strike 7/8/2008 Natural Gas Completed - Caus Incident/Near-Miss Construction Site (Yes Yes Transmission, Dist	al Analysis(End) s Occurrence (FS)	ortation	
Root Cause: Reported De			oment/Material/Com nt:Yes Human Fac		ign:No Training
Fuel Categol Occurrence Affiliation: County Nam Approx. Qua Nearby body Enter Draina Approx. Qua Environment	ry: Type: nnt. Rel: v of water: nge Syst.: nnt. Unit:	Gaseous Fuel Incident Industry Stakehold Wellington	ler (Licensee/Regist	ration/Certificate Holder, Facility Owner, etc.)	
<u>32</u>	1 of 7	NNE/297.4	338.9 / 4.69	ROYAL CLEANERS 358 SPEEDVALE AVENUE EAST	GEN
_		0		GUELPH ON N1E 1N5	
Generator No	o:	ON0543100 9721			

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Approval Yea PO Box No: Country: Status: Co Admin: Choice of Cou Phone No Ad Contaminated MHSW Facilit	ntact: min: I Facility:	86,87,88,89			
<u>Detail(s)</u>					
Waste Class: Waste Class		241 HALOGENATED S	OLVENTS		
<u>32</u>	2 of 7	NNE/297.4	338.9 / 4.69	ROYAL CLEANERS 33-163 358 SPEEDVALE AVENUE EAST GUELPH ON N1E 1N5	GEN
Generator No SIC Code: SIC Descripti Approval Yea PO Box No: Country: Status: Co Admin: Choice of Cou Phone No Ad Contaminated MHSW Facilit	on: rs: ntact: min: d Facility:	ON0543100 9721 POWER LAUND./C 92,93,94,95,96,97,5			
<u>Detail(s)</u>					
Waste Class: Waste Class		241 HALOGENATED S	OLVENTS		
<u>32</u>	3 of 7	NNE/297.4	338.9 / 4.69	ROYAL CLEANERS 358 SPEEDVALE AVENUE EAST GUELPH ON N1E 1N5	GEN
Generator No SIC Code: SIC Descripti Approval Yea PO Box No: Country: Status: Co Admin: Choice of Col Phone No Ad Contaminated MHSW Facilit <u>Detail(s)</u> Waste Class:	on: rs: ntact: min: d Facility: y:	ON0543100 9721 POWER LAUND./C 99,00,01	ELEANERS		
Waste Class: Waste Class		HALOGENATED S	OLVENTS		
<u>32</u>	4 of 7	NNE/297.4	338.9 / 4.69	ROBERT LANE INC. 358 SPEEDVALE AVENUE EAST	GEN

Order No: 23060200052

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff) (m)	Site	Di
				GUELPH ON N1E 1N5	
Generator No SIC Code:		ON0543100			
SIC Descripti Approval Yea PO Box No: Country: Status: Co Admin: Choice of Col Phone No Ad Contaminated MHSW Facilit	nrs: ntact: min: d Facility:	02,03,04,05,06,07	7,08		
<u>Detail(s)</u>					
Waste Class: Waste Class		241 HALOGENATED	SOLVENTS		
<u>32</u>	5 of 7	NNE/297.4	338.9 / 4.69	ROBERT LANE INC. 358 SPEEDVALE AVENUE EAST GUELPH ON N1E 1N5	GEN
Generator No SIC Code: SIC Descripti Approval Yea PO Box No: Country: Status: Co Admin: Choice of Col Phone No Ad Contaminated MHSW Facilit	on: irs: ntact: min: d Facility:	ON0543100 812320 Dry Cleaning and 2009	Laundry Services (e	except Coin-Operated)	
<u>Detail(s)</u>					
Waste Class: Waste Class		241 HALOGENATED	SOLVENTS		
<u>32</u>	6 of 7	NNE/297.4	338.9 / 4.69	ROBERT LANE INC. 358 SPEEDVALE AVENUE EAST GUELPH ON N1E 1N5	GEN
Generator No SIC Code: SIC Descriptii Approval Yea PO Box No: Country: Status: Co Admin: Choice of Cou Phone No Ad Contaminated MHSW Facilit	on: irs: ntact: min: d Facility:	ON0543100 812320 Dry Cleaning and 2010	Laundry Services (e	except Coin-Operated)	

<u>Detail(s)</u>

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Waste Class	:	241			
Waste Class		HALOGENATED S	OLVENTS		
<u>32</u>	7 of 7	NNE/297.4	338.9 / 4.69	Royal Cleaners 358 Speedvale Ave E Guelph ON N1E1N5	CDRY
Legal Name Region: Type of Repo	of Company: orter:				
Waste Quan	<u>tity by Year</u>				
Reporting Ye	ear:	2006			
Quantity of F	PERC (kg):	590			
Total Waste		0			
Total Waste		-			
Total Residu Total Residu		- 410			
Total Mix (kg	• •	0			
Total Mix (L)		-			
Request for	Confidentiality:	No			
Reason for C	Confidentiality:	N/A			
Reporting Ye	ar:	2005			
Quantity of F		590			
Total Waste		0			
Total Waste		-			
Total Residu		205			
Total Residu Total Mix (kg		0			
Total Mix (L)		-			
	Confidentiality:	No			
Reason for C	Confidentiality:	N/A			
Reporting Ye	ar.	2004			
Quantity of F		470.68			
Total Waste	Water (kg):	-			
Total Waste		-			
Total Residu Total Residu		-			
Total Mix (kg		-			
Total Mix (L)		-			
	Confidentiality:	No			
Reason for C	Confidentiality:	N/A			
<u>33</u>	1 of 4	N/297.8	337.9 / 3.69	Candies of Merritt Ltd. 344 Speedvale Ave E Guelph ON N1E 1N5	SCT
Established:		01-JUN-72			
Plant Size (fi Employment	t²):	2500			
Details					
Description:		Chocolate and Con	fectionery Manufa	cturing from Cacao Beans	
SIC/NAICS C		311320	-		
Description		Non-Chocolate Cor	fectionery Monufe	cturing	
Description: SIC/NAICS C	odo:	311340	nectionery manula	locumy	

Мар Кеу	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>33</u>	2 of 4	N/297.8	337.9 / 3.69	PHARMA PLUS DRUGS LTD 334 SPEEDVALE AVENUE EAST GUELPH ON N1E 1N5	GEN
Generator No SIC Code: SIC Descript Approval Yea PO Box No: Country: Status: Co Admin: Choice of Co Phone No Ad Contaminate MHSW Facili	ion: ars: ontact: dmin: ed Facility:	ON1553397 6031 PHARMACIES 92,93,97			
<u>Detail(s)</u>					
Waste Class Waste Class		261 PHARMACEUTICA	LS		
Waste Class Waste Class		312 PATHOLOGICAL V	VASTES		
33	3 of 4	N/297.8	337.9 / 3.69	PHARMA PLUS DRUGS LTD. 31-756 334 SPEEDVALE AVE. E. C/O 5935 AIRPORT ROAD #500 MISSISSAUGA ON L4V 1W5	GEN
Generator No SIC Code: SIC Descript Approval Ye PO Box No: Country: Status: Co Admin: Choice of Co Phone No Ac Contaminate MHSW Facili	ion: ars: ontact: dmin: ed Facility:	ON1553397 6031 PHARMACIES 94,95,96			
<u>Detail(s)</u>					
Waste Class Waste Class		261 PHARMACEUTICA	LS		
Waste Class Waste Class		312 PATHOLOGICAL V	VASTES		
<u>33</u>	4 of 4	N/297.8	337.9/3.69	PHARMA PLUS DRUGS LTD(OUT OF BUSINESS) 334 SPEEDVALE AVENUE EAST GUELPH ON N1E 1N5	GEN
Generator No SIC Code: SIC Descript Approval Ye PO Box No: Country: Status: Co Admin:	ion:	ON1553397 6031 PHARMACIES 98,99			

Map Key	Number Records		Elev/Diff (m)	Site	DB
Choice of Co Phone No A Contaminate MHSW Facil	dmin: ed Facility:				
<u>Detail(s)</u>					
Waste Class Waste Class		261 PHARMACEUTIC	ALS		
Waste Class Waste Class		312 PATHOLOGICAL	WASTES		
<u>34</u>	1 of 2	SW/298.1	330.9 / -3.31	UNION GAS LTD. 231 SPEEDVALE AVE. BYPRO MARKETING (IN FRONT OF) GUELPH CITY ON	SPL
Ref No:		201345		Contaminant Qty:	
Site No: Incident Dt:		5/24/2001		Nature of Damage: Discharger Report:	
Year: Incident Cau	ISA'	PIPE/HOSE LEAK		Material Group: Health/Env Conseg:	
Incident Eve	ent:			Agency Involved:	
Environmen Nature of Im		Possible Soil contamination		Site Lot: Site Conc:	
MOE Respo Dt MOE Arv				Site Geo Ref Accu: Site Map Datum:	
MOE Report	ed Dt:	5/24/2001		Northing:	
Dt Documen Municipality System Faci	No:	75101 ::		Easting:	
Client Type:	-				
Call Report Contaminan	t Code:	ouala.			
Contaminan Contaminan					
Contam Lim	it Freq 1:				
Contaminan Receiving M		Air			
Receiving E Incident Rea			/ING EQUIPMENT		
Incident Sur	nmary:			NT DUE TO BROKEN PIPE BY EXCAVATING CO. MOE	
Site Region: Site Municip		GUELPH CITY			
Activity Pred Property 2nd					
Property Tel	rtiary Waters				
Sector Type SAC Action					
Source Type	ə:				
Site County/ Site Geo Rei					
Site District Nearest Wat					
Site Name:					
Site Address Client Name					
<u>34</u>	2 of 2	SW/298.1	330.9/-3.31	Goderich-Exeter Railway Company Limited behind Bipro plant on 231Speedvale Ave. Guelph ON	SPL

	Number o Records	of	Direction/ Distance (m)	Elev/Diff (m)	Site		DE
Ref No: Site No:		7662-6Z4	QX2		Contaminant Qty: Nature of Damage:	1800 L	
Incident Dt:					Discharger Report:		
Year:		Containar	Look (Fuel Tenk De	rrala)	Material Group:	Oil	
Incident Cause Incident Event:		Container	Leak (Fuel Tank Ba	riels)	Health/Env Conseq: Agency Involved:		
Environment In		Confirmed	4		Site Lot:		
Nature of Impa			amination; Surface W	ater Pollution	Site Conc:		
MOE Response			eld Response		Site Geo Ref Accu:		
Dt MOE Arvl or		1 Honty 1 I			Site Map Datum:		
MOE Reported		3/8/2007			Northing:		
Dt Document C		0,0,200.			Easting:		
Municipality No					Lucing.		
System Facility							
Client Type:							
Call Report Loc	cation Geo	data:					
Contaminant C			13				
Contaminant N	lame:		DIESEL FUEL				
Contaminant L	imit 1:						
Contam Limit F	Freq 1:						
Contaminant U	IN No 1:						
Receiving Med	ium:		Land & Water				
Receiving Envi							
Incident Reaso			Frost Heave				
Incident Summ	nary:		Goderich Ex.Railw	est. 1800 L rail c	liesel to grd.		
Site Region:							
Site Municipali			Guelph				
Activity Preced							
Property 2nd W							
Property Tertia	ry Watersi	ned:	Teste				
Sector Type:			Train				
SAC Action Cla	ass:						
Source Type: Site County/Dis	atriat.						
Site Geo Ref M							
Site District Of							
Nearest Watero							
Site Name:	Jourse.		Rail line, mileage 0.5	58 Aberdeen Av			
Site Address:			ran me, meage 0.				
			Goderich-Exeter Rai				

Unplottable Summary

Total: 19 Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
CA	The Corporation of the City of Guelph	Speedvale Avenue	Guelph ON	
СА	The Corporation of the City of Guelph	Speedvale Ave	Guelph ON	
CA	HOMEWOOD SANITARIUM OF GUELPH ONT.	EMMA ST.HOMEWOOD HEALTH CENTRE	GUELPH CITY ON	
CA	GUELPH CITY	SPEEDVALE AVE.	GUELPH CITY ON	
CA	The Corporation of the City of Guelph	Speedvale Ave	Guelph ON	
CA	PRIMARY DEVELOPMENTS LIMITED	PRIVATE SEWER SPEEDVALE PLAZA	GUELPH CITY ON	
CA	The Corporation of the City of Guelph	Emma Street, Marlborough to Pine	Guelph ON	
ECA	The Corporation of the City of Guelph	Speedvale Avenue	Guelph ON	N1H 3A1
ECA	The Corporation of the City of Guelph	Speedvale Ave	Guelph ON	N1H 3A1
ECA	City of Guelph	Metcalfe St	Guelph ON	N1E 0H5
ECA	The Corporation of the City of Guelph	Speedvale Ave	Guelph ON	N1H 3A1
ECA	The Corporation of the City of Guelph	Speedvale Ave	Guelph ON	N1H 3A1
ECA	The Corporation of the City of Guelph	Speedvale Ave	Guelph ON	N1H 3A1
ECA	The Corporation of the City of Guelph	Speedvale Avenue East	Guelph ON	N1H 3A1
ECA	The Corporation of the City of Guelph	Speedvale Ave	Guelph ON	N1H 3A1
SPL	The Corporation of the City of Guelph	Speedvale Ave	Guelph ON	

SPL	Metcalfe Street	Guelph ON
WWIS	con 2	ON
WWIS	con 2	ON

Unplottable Report

<u>Site:</u> The Corporation of the City of Guelph Speedvale Avenue Guelph ON

Certificate #: Application Year: Issue Date: Approval Type: Status: Application Type: Client Name: Client Name: Client Address: Client City: Client Postal Code: Project Description: Contaminants: Emission Control: 4724-5M7KGJ 2003 5/8/2003 Municipal and Private Sewage Works Approved

<u>Site:</u> The Corporation of the City of Guelph Speedvale Ave Guelph ON

Certificate #: Application Year: Issue Date: Approval Type: Status: Application Type: Client Name: Client Address: Client City: Client Postal Code: Project Description: Contaminants: Emission Control: 8567-7KWJN7 2008 11/4/2008 Municipal and Private Sewage Works Approved

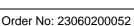
<u>Site:</u> HOMEWOOD SANITARIUM OF GUELPH ONT. EMMA ST.HOMEWOOD HEALTH CENTRE GUELPH CITY ON

Certificate #: Application Year: Issue Date: Approval Type: Status: Application Type: Client Name: Client Address: Client Address: Client City: Client Postal Code: Project Description: Contaminants: Emission Control: 3-0421-93-93 5/19/1993 Municipal sewage Approved Database:

<u>Site:</u> GUELPH CITY SPEEDVALE AVE. GUELPH CITY ON

3-1243-86-

Certificate #:





Database:

CA

Application Year: Issue Date: Approval Type: Status: Application Type: Client Name: Client Address: Client City: Client Postal Code: Project Description: Contaminants: Emission Control: 86 8/29/1986 Municipal sewage Approved

<u>Site:</u> The Corporation of the City of Guelph Speedvale Ave Guelph ON

Certificate #: Application Year: Issue Date: Approval Type: Status: Application Type: Client Name: Client Name: Client Address: Client City: Client Postal Code: Project Description: Contaminants: Emission Control: 9139-77MJQP 2007 10/5/2007 Municipal and Private Sewage Works Approved

<u>Site:</u> PRIMARY DEVELOPMENTS LIMITED PRIVATE SEWER SPEEDVALE PLAZA GUELPH CITY ON

Certificate #: Application Year: Issue Date: Approval Type: Status: Application Type: Client Name: Client Address: Client City: Client Postal Code: Project Description: Contaminants: Emission Control: 3-0999-86-86 7/21/1986 Municipal sewage Approved

<u>Site:</u> The Corporation of the City of Guelph Emma Street, Marlborough to Pine Guelph ON

Certificate #: Application Year: Issue Date: Approval Type: Status: Application Type: Client Name: Client Address: Client Address: Client City: Client Postal Code: Project Description: Contaminants: Emission Control: 0903-6Z5HJU 2007 5/6/2007 Municipal and Private Sewage Works Approved

Database: CA

132



Database: CA

Site: The Corporation of the City of Guelph Speedvale Avenue Guelph ON N1H 3A1

ECA

IDS

Approval No: Approval Date: Status: Record Type: Link Source: SWP Area Name: Approval Type: Project Type: **Business Name:** Address: Full Address: Full PDF Link: PDF Site Location: 4724-5M7KGJ **MOE District:** 2003-05-08 City: Approved Longitude: Latitude: Geometry X: Geometry Y: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS MUNICIPAL AND PRIVATE SEWAGE WORKS The Corporation of the City of Guelph Speedvale Avenue

https://www.accessenvironment.ene.gov.on.ca/instruments/8255-5LLGYV-14.pdf

Site: The Corporation of the City of Guelph Speedvale Ave Guelph ON N1H 3A1

IDS

Approval No: Approval Date: Status: Record Type: Link Source: SWP Area Name: Approval Type: Project Type: **Business Name:** Address: Full Address: Full PDF Link: PDF Site Location: 5289-7L3JUJ **MOE District:** 2008-11-04 City: Approved Longitude: ECA Latitude: Geometry X: Geometry Y: ECA-Municipal Drinking Water Systems Municipal Drinking Water Systems The Corporation of the City of Guelph Speedvale Ave

City of Guelph Site: Metcalfe St Guelph ON N1E 0H5

Approval No: 4867-A3FLDW **MOE District:** 2015-10-23 Approval Date: City: Status: Approved Longitude: Record Type: ECA Latitude: Link Source: IDS Geometry X: SWP Area Name: Geometry Y: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS Approval Type: Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS **Business Name:** City of Guelph Address: Metcalfe St Full Address: Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/9907-A2LQM4-14.pdf PDF Site Location:

Site: The Corporation of the City of Guelph Speedvale Ave Guelph ON N1H 3A1

Approval No: Approval Date: Status: Record Type: Link Source: SWP Area Name: Approval Type: Project Type:

8567-7KWJN7 2008-11-04 Approved ECA IDS

MOE District: City: Longitude: Latitude: Geometry X: Geometry Y: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS MUNICIPAL AND PRIVATE SEWAGE WORKS



Database:

ECA

Database: **ECA**



Database:

ECA

Database: **ECA**

Business Name: Address: Full Address: Full PDF Link: PDF Site Location:

https://www.accessenvironment.ene.gov.on.ca/instruments/0761-7JZLKX-14.pdf

<u>Site:</u>	The Corporation Speedvale Ave					Database ECA
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Status: Record Type: Link Source: SWP Area Name: Approval Type: Project Type: **Business Name:** Address: Full Address: Full PDF Link: PDF Site Location: Approved ECA IDS

ECA-Municipal Drinking Water Systems Municipal Drinking Water Systems The Corporation of the City of Guelph Speedvale Ave

Longitude: Latitude: Geometry X: Geometry Y:

Site: The Corporation of the City of Guelph Speedvale Ave Guelph ON Ref No: 3410-BCEPBF Site No: NA

5/22/2019 Incident Dt: Year: Incident Cause: Incident Event: Environment Impact: Site Lot: Nature of Impact: MOE Response: No Dt MOE Arvl on Scn: 5/22/2019 Northina: MOE Reported Dt: **Dt Document Closed:** 6/12/2019 Easting: Municipality No: System Facility Address: Client Type: Municipal Government Call Report Location Geodata: Contaminant Code: Contaminant Name: Contaminant Limit 1: Contam Limit Freq 1: Contaminant UN No 1: Receiving Medium: **Receiving Environment:** Incident Reason: Incident Summary: City of Guelph recieves call of sheen in Speed River West Central Site Region: Site Municipality: Guelph Activity Preceding Spill: Property 2nd Watershed: Property Tertiary Watershed: Sector Type: SAC Action Class: Notifications Source Type: Site County/District: County of Wellington Site Geo Ref Meth: Site District Office: Guelph Nearest Watercourse: site<UNOFFICIAL> Site Name: Speedvale Ave Site Address: Client Name: The Corporation of the City of Guelph

Nature of Damage: Discharger Report: Material Group: Health/Env Conseq: Agency Involved: Site Conc: Site Geo Ref Accu: Site Map Datum:

Contaminant Qty:

0 - No Impact

Site:

Metcalfe Street Guelph ON

6505-9K46JD Ref No: Site No: NA Incident Dt: Year: Incident Cause: Incident Event: Environment Impact:

2014/05/14 Leak/Break Not Anticipated Contaminant Qty: Nature of Damage: Discharger Report: Material Group: Health/Env Conseq: Agency Involved: Site Lot:

19 L

135

erisinfo.com | Environmental Risk Information Services

Order No: 23060200052



Database: SPL

Nature of Impact: Surface Water Pollution Site Conc: MOE Response: No Field Response Site Geo Ref Accu: Dt MOE Arvl on Scn: Site Map Datum: 2014/05/13 MOE Reported Dt: Northing: Dt Document Closed: 2014/05/28 Easting: Municipality No: System Facility Address: Client Type: Call Report Location Geodata: Contaminant Code: 15 Contaminant Name: OIL (PETROLEUM BASED, NOT SPECIFIED) Contaminant Limit 1: Contam Limit Freq 1: Contaminant UN No 1: Receiving Medium: Receiving Environment: Incident Reason: Unknown / N/A Incident Summary: Guelph Transit: 19L of "turbo oil" to ground, catchbasin Site Region: Site Municipality: Guelph Activity Preceding Spill: Property 2nd Watershed: Property Tertiary Watershed: Motor Vehicle Sector Type: SAC Action Class: Watercourse Spills Source Type: Site County/District: Site Geo Ref Meth: Site District Office: Nearest Watercourse: Metcalfe Street<UNOFFICIAL> Site Name: Site Address: Metcalfe Street Client Name:

<u>Site:</u>

WWIS con 2 ON 6714411 Well ID: Flowing (Y/N): **Construction Date:** Flow Rate: Use 1st: Not Used Data Entry Status: Use 2nd: Data Src: 1 Final Well Status: **Observation Wells** Date Received: 27-Mar-2003 00:00:00 TRUE Water Type: Selected Flag: Casing Material: Abandonment Rec: Audit No: 245037 Contractor: 6571 Form Version: Tag: 1 Constructn Method: **Owner:** WELLINGTON Elevation (m): County: Elevatn Reliabilty: Lot: Depth to Bedrock: Concession: 02 Well Depth: Concession Name: DIV D Overburden/Bedrock: Easting NAD83: Northing NAD83: Pump Rate: Static Water Level: Zone: Clear/Cloudy: UTM Reliability: **GUELPH TOWNSHIP** Municipality: Site Info: **Bore Hole Information** Bore Hole ID: Elevation: 10542256 DP2BR: Elevrc: Spatial Status: Zone: 17 East83: Code OB:

North83:

Org CS:

Open Hole: 136

Code OB Desc:

Database:

27-Nov-2002 00:00:00

Cluster Kind: Date Completed: Remarks: Loc Method Desc: Elevrc Desc: Location Source Date: Improvement Location Source: Improvement Location Method: Source Revision Comment: Supplier Comment:

Not Applicable i.e. no UTM

UTMRC: UTMRC Desc: Location Method: 9 unknown UTM na

Overburden and Bedrock Materials Interval

Formation ID: Layer: Color: General Color:	932921884 2 6 BROWN
Mat1: Most Common Material: Mat2: Mat2 Desc: Mat3:	09 MEDIUM SAND 80 POROUS
Mat3 Desc: Formation Top Depth: Formation End Depth: Formation End Depth UOM:	1.0 6.0 ft

Overburden and Bedrock Materials Interval

Formation ID:	932921885
Layer:	3
Color:	6
General Color:	BROWN
Mat1:	10
Most Common Material:	COARSE SAND
Mat2:	80
Mat2 Desc:	POROUS
Mat3:	
Mat3 Desc:	
Formation Top Depth:	6.0
Formation End Depth:	14.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	932921886
Layer:	4
Color:	2
General Color:	GREY
Mat1:	06
Most Common Material:	SILT
Mat2:	08
Mat2 Desc:	FINE SAND
Mat3:	80
Mat3 Desc:	POROUS
Formation Top Depth:	14.0
Formation End Depth:	27.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID: Layer: Color:	932921883 1 6
General Color: Mat1:	BROWN 02
Most Common Material:	TOPSOIL
Mat2: Mat2 Desc:	
Mat3:	
Mat3 Desc: Formation Top Depth:	0.0
Formation End Depth:	1.0
Formation End Depth UOM:	ft

Annular Space/Abandonment

Sealing	Record

Plug ID:	933240169
Layer:	1
Plug From:	0.0
Plug To:	8.0
Plug Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	933240170
Layer:	2
Plug From:	8.0
Plug To:	27.0
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	966714411
Method Construction Code:	В
Method Construction:	Other Method
Other Method Construction:	

Pipe Information

Pipe ID:	11090826
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930779079
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From: Depth To: Casing Diameter: Casing Diameter UOM: Casing Depth UOM:	12.0 2.0 inch ft

Construction Record - Screen

933405597
1
010

12.0
27.0
ft
nch
2.0

Water Details

Water ID:	934036044
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	20.0
Water Found Depth UOM:	ft

Site:

con 2 ON

0012 011			
Well ID:	6714410	Flowing (Y/N):	
Construction Date:		Flow Rate:	
Use 1st:	Not Used	Data Entry Status:	
Use 2nd:		Data Src:	1
Final Well Status:	Observation Wells	Date Received:	27-Mar-2003 00:00:00
Water Type:		Selected Flag:	TRUE
Casing Material:		Abandonment Rec:	
Audit No:	245038	Contractor:	6571
Tag:		Form Version:	1
Constructn Method:		Owner:	
Elevation (m):		County:	WELLINGTON
Elevatn Reliabilty:		Lot:	
Depth to Bedrock:		Concession:	02
Well Depth:		Concession Name:	DIV D
Overburden/Bedrock:		Easting NAD83:	
Pump Rate:		Northing NAD83:	
Static Water Level:		Zone:	
Clear/Cloudy:		UTM Reliability:	
Municipality:	GUELPH TOWNSHIP	-	
Site Info:			

Bore Hole Information

Bore Hole ID: DP2BR:	10542255	Elevation: Elevrc:	
Spatial Status:		Zone:	17
Code OB:		East83:	
Code OB Desc:		North83:	
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	9
Date Completed:	27-Nov-2002 00:00:00	UTMRC Desc:	unknown UTM
Remarks:		Location Method:	na
Loc Method Desc:	Not Applicable i.e. no UTM		
Elevrc Desc:			
Location Source Dates			

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

Overburden and Bedrock Materials Interval

Formation ID:	932921881
Layer:	3
Color:	6
General Color:	BROWN

139

Database: WWIS

Mat1:	10
Most Common Material:	COARSE SAND
Mat2:	80
Mat2 Desc:	POROUS
Mat3:	
Mat3 Desc:	
Formation Top Depth:	6.0
Formation End Depth:	13.0
Formation End Depth UOM:	ft
-	
<u> </u>	

Overburden and Bedrock Materials Interval

Formation ID:	932921880
Layer:	2
Color:	6
General Color:	BROWN
Mat1:	09
Most Common Material:	MEDIUM SAND
Mat2:	80
Mat2 Desc:	POROUS
Mat3:	
Mat3 Desc:	
Formation Top Depth:	1.0
Formation End Depth:	6.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID: Layer: Color: General Color: Mat1: Most Common Material: Mat2: Mat2 Desc: Mat3: Mat3 Desc:	932921879 1 6 BROWN 02 TOPSOIL
Formation Top Depth:	0.0
Formation End Depth:	1.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

932921882
4
2
GREY
06
SILT
08
FINE SAND
80
POROUS
13.0
20.0
ft

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

Plug ID:

Layer:	1
Plug From:	0.0
Plug To:	8.0
Plug Depth UOM:	ft

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

Plug ID:	933240168
Layer:	2
Plug From:	8.0
Plug To:	26.0
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	966714410
Method Construction Code:	В
Method Construction:	Other Method
Other Method Construction:	

Pipe Information

Pipe ID:	11090825
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID: Layer: Material:	930779078 1 5
Open Hole or Material: Depth From:	PLASTIC
Depth To: Casing Diameter:	11.0 2.0 inch
Casing Diameter UOM: Casing Depth UOM:	ft

Construction Record - Screen

Como m ID.	022405506
Screen ID:	933405596
Layer:	1
Slot:	010
Screen Top Depth:	11.0
Screen End Depth:	26.0
Screen Material:	
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	2.0

Water Details

Water ID:	934036043
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	20.0
Water Found Depth UOM:	ft

Appendix: Database Descriptions

Environmental Risk Information Services (ERIS) can search the following databases. The extent of historical information varies with each database and current information is determined by what is publicly available to ERIS at the time of update. Note: Databases denoted with "*" indicates that the database will no longer be updated. See the individual database description for more information.

Abandoned Aggregate Inventory:

The MAAP Program maintains a database of abandoned pits and quarries. Please note that the database is only referenced by lot and concession and city/town location. The database provides information regarding the location, type, size, land use, status and general comments.* Government Publication Date: Sept 2002*

Aggregate Inventory: The Ontario Ministry of Northern Development, Mines, Natural Resources and Forestry (ONDMNRF) maintains this database of 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 Oct 2022 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-Mar 2022

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:

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:

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-Feb 28, 2022

Borehole: 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

Provincial

Provincial

AAGR

AGR

AST

AUWR

Provincial

Private

Provincial

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Certificates of Approval:

Dry Cleaning Facilities:

Commercial Fuel Oil Tanks:

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.

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

Tetrachloroethylene (Use in Dry Cleaning and Reporting Requirements) Regulations (SOR/2003-79) are intended to reduce releases of

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).

Government Publication Date: Feb 28, 2022

Chemical Manufacturers and Distributors:

Government Publication Date: 1985-Oct 30, 2011*

Government Publication Date: Jan 2004-Dec 2021

Please refer to those individual databases for any information after Oct.31, 2011.

tetrachloroethylene to the environment from dry cleaning facilities.

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

This database includes a listing of locations of facilities within the Province or Territory that either manufacture and/or distributes chemicals.

Chemical Register:

Government Publication Date: 1999-Feb 28, 2023

Compressed Natural Gas Stations: 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 -Feb 2023

Inventory of Coal Gasification Plants and Coal Tar Sites:

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*

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-Feb 2023

Certificates of Property Use: This is a subset taken from Ontario's Environmental Registry (EBR) database. It will include CPU's on the registry such as (EPA s. 168.6) - Certificate of Property Use.

Government Publication Date: 1994 - Apr 30, 2023

Compliance and Convictions:

144

Provincial

CA

CDRY

CFOT

Federal List of dry cleaning facilities made available by Environment and Climate Change Canada. Environment and Climate Change Canada's

Provincial Locations of commercial underground fuel oil tanks. This is not a comprehensive or complete inventory of commercial fuel tanks in the province; this

CHEM

CHM

CNG

COAL

CONV

Private

Provincial

Private

Private

Provincial

Provincial

CPU

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company map; or from submitted a "Report of Work".

Government Publication Date: 1886 - Oct 2022

Environmental Activity and Sector Registry:

Delisted Fuel Tanks:

Environmental Registry:

Drill Hole Database:

regulatory agency under Access to Public Information. Government Publication Date: Feb 28, 2022

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- Apr 30, 2023

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

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

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 - Apr 30, 2023

Environmental Compliance Approval:

On October 31, 2011, a smarter, faster environmental approvals system came into effect in Ontario. In the past, a business had to apply for multiple approvals (known as certificates of approval) for individual processes and pieces of equipment. Today, a business either registers itself, or applies for a single approval, depending on the types of activities it conducts. Businesses whose activities aren't subject to the EASR may apply for an ECA. A single ECA addresses all of a business's emissions, discharges and wastes. Separate approvals for air, noise and waste are no longer required. This database will also include Renewable Energy Approvals. For certificates of approval prior to Nov 1st, 2011, please refer to the CA database. For all Waste Disposal Sites please refer to the WDS database.

Government Publication Date: Oct 2011- Apr 30, 2023

Environmental Effects Monitoring:

ERIS Historical Searches:

145

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 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-Mar 31, 2023

Environmental Issues Inventory System:

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

Provincial

Provincial

DTNK

DRI

Provincial

Provincial

Provincial

Federal

Private

Federal

EASR

FBR

FCA

EEM

EHS

FIIS

Emergency Management Historical Event:

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: Apr 30, 2022

Environmental Penalty Annual Report:

List of Expired Fuels Safety Facilities:

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, 2022

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.

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

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

Contaminated Sites on Federal Land:

Federal Convictions:

Environment Canada maintains a database referred to as the "Environmental Registry" that details prosecutions under the Canadian Environmental Protection Act (CEPA) and the Fisheries Act (FA). Information is provided on the company name, location, charge date, offence and penalty. Government Publication Date: 1988-Jun 2007*

The Federal Contaminated Sites Inventory includes information on known federal contaminated sites under the custodianship of departments, agencies and consolidated Crown corporations as well as those that are being or have been investigated to determine whether they have contamination arising from past use that could pose a risk to human health or the environment. The inventory also includes non-federal contaminated sites for which the Government of Canada has accepted some or all financial responsibility. It does not include sites where contamination has been caused by, and which are under the control of, enterprise Crown corporations, private individuals, firms or other levels of government. Includes fire training sites and sites at which Per- and Polyfluoroalkyl Substances (PFAS) are a concern.

Government Publication Date: Jun 2000-Mar 2023

Fisheries & Oceans Fuel Tanks:

Fisheries & Oceans Canada maintains an inventory of aboveground & underground fuel storage tanks located on Fisheries & Oceans property or controlled by DFO. Our inventory provides information on the site name, location, tank owner, tank operator, facility type, storage tank location, tank contents & capacity, and date of tank installation. Government Publication Date: 1964-Sep 2019

Federal Identification Registry for Storage Tank Systems (FIRSTS):

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:

146

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

This database contains data from Ontario's annual environmental penalty report published by the Ministry of the Environment and Climate Change.

EPAR

EXP

FCON

FCS

FOFT

FRST

Provincial

Federal

Federal

Federal

Provincial

FST

Provincial

Provincial

Federal

FMHF

Order No: 23060200052

Fuel Storage Tank - Historic:

The Fuels Safety Branch of the Ontario Ministry of Consumer and Commercial Relations maintained a database of all registered private fuel storage tanks. Public records of private fuel storage tanks are only available since the registration became effective in September 1989. This information is now collected by the Technical Standards and Safety Authority.

Government Publication Date: Pre-Jan 2010*

Ontario Regulation 347 Waste Generators Summary:

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-Oct 31, 2022

Government Publication Date: 2013-Dec 2019

Greenhouse Gas Emissions from Large Facilities:

TSSA Historic Incidents:

dioxide equivalents (kt CO2 eq).

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:

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*

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

Fuel Oil Spills and Leaks:

Landfill Inventory Management Ontario:

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: Mar 21, 2022

Canadian Mine Locations: MINE This information is collected from the Canadian & American Mines Handbook. The Mines database is a national database that provides over 290 listings on mines (listed as public companies) dealing primarily with precious metals and hard rocks. Listed are mines that are currently in operation, closed, suspended, or are still being developed (advanced projects). Their locations are provided as geographic coordinates (x, y and/or longitude, latitude). As of 2002, data pertaining to Canadian smelters and refineries has been appended to this database.

Government Publication Date: 1998-2009*

147

Federal

Provincial

Federal

Provincial

Provincial

Provincial

Provincial

GEN

FSTH

GHG

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

IAFT

INC

LIMO

Private

jurisdiction, does not include incident data related to pipelines under provincial or territorial jurisdiction.

Mineral Occurrences:

In the early 70's, the Ministry of Northern Development and Mines created an inventory of approximately 19,000 mineral occurrences in Ontario, in regard to metallic and industrial minerals, as well as some information on building stones and aggregate deposits. Please note that the "Horizontal Positional Accuracy" is approximately +/- 200 m. Many reference elements for each record were derived from field sketches using pace or chain/tape measurements against claim posts or topographic features in the area. The primary limiting factor for the level of positional accuracy is the scale of the source material. The testing of horizontal accuracy of the source materials was accomplished by comparing the plan metric (X and Y) coordinates of that point with the coordinates of the same point as defined from a source of higher accuracy.

Government Publication Date: 1846-Feb 2023

National Analysis of Trends in Emergencies System (NATES):

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: 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.

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

Government Publication Date: Dec 31, 2021

National Defense & Canadian Forces Fuel Tanks:

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*

The Department of National Defense and the Canadian Forces maintains an inventory of all aboveground & underground fuel storage tanks located on

National Defense & Canadian Forces Spills:

under the "Transportation of Dangerous Goods Act - 1992". Our inventory provides information on the facility name, location, spill ID #, spill date, type of spill, as well as the quantity of substance spilled & recovered. Government Publication Date: Mar 1999-Apr 2018

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*

(NEB). Includes incidents reported under the Onshore Pipeline Regulations and the Processing Plant Regulations related to pipelines under federal

National Energy Board Pipeline Incidents:

Government Publication Date: 2008-Jun 30, 2021

National Defence & Canadian Forces Waste Disposal Sites:

National Energy Board Wells:

148

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*

NCPL

NDFT

NDWD

NFBI

NEBP

Federal

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

Federal

Federal Locations of pipeline incidents from 2008 to present, made available by the Canada Energy Regulator (CER) - previously the National Energy Board

Federal

Provincial

MNR

NATE

Federal

Provincial

NDSP

PCFT

National Environmental Emergencies System (NEES):

In 2000, the Emergencies program implemented NEES, a reporting system for spills of hazardous substances. For the most part, this system only captured data from the Atlantic Provinces, some from Quebec and Ontario and a portion from British Columbia. Data for Alberta, Saskatchewan, Manitoba and the Territories was not captured. However, NEES is also a repository for previous Environment Canada spill datasets. NEES is composed of the historic datasets ' or Trends ' which dates from approximately 1974 to present. NEES Trends is a compilation of historic databases, which were merged and includes data from NATES (National Analysis of Trends in Emergencies System), ARTS (Atlantic Regional Trends System), and NEES. In 2001, the Emergencies Program determined that variations in reporting regimes and requirements between federal and provincial agencies made national spill reporting and trend analysis difficult to achieve. As a consequence, the department has focused efforts on capturing data on spills of substances which fall under its legislative authority only (CEPA and FA). As such, the NEES database will be decommissioned in December 2004.

Government Publication Date: 1974-2003*

National PCB Inventory:

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:

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

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.

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

Government Publication Date: 1988-Feb 30, 2023

Ontario Oil and Gas Wells:

Oil and Gas Wells:

geology/stratigraphy table information, plus all water table information is also provide for each well record. Government Publication Date: 1800-Aug 2021

Inventory of PCB Storage Sites: 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.

Orders: Provincial ORD This is a subset taken from Ontario's Environmental Registry (EBR) database. It will include 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.

Canadian Pulp and Paper: 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

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

Government Publication Date: 1994 - Apr 30, 2023

Parks Canada Fuel Storage Tanks:

149

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

NPRI

OGWF

OOGW

Provincial

Private

Federal

Federal

Federal

Federal

Private

Provincial

NFFS

NPCB

Government Publication Date: 1988-Oct 2021

Pesticide Register:

The Ontario Ministry of the Environment and Climate Change maintains a database of licensed operators and vendors of registered pesticides.

Government Publication Date: Oct 2011- Apr 30, 2023

Pipeline Incidents:

Permit to Take Water:

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

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*

Ontario Regulation 347 Waste Receivers Summary:

Private and Retail Fuel Storage Tanks:

This is a subset taken from Ontario's Environmental Registry (EBR) database. It will include PTTW's on the registry such as OWRA s. 34 - Permit to take water. Government Publication Date: 1994 - Apr 30, 2023

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, 1992-2020

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 2023

Retail Fuel Storage Tanks:

Scott's Manufacturing Directory:

Record of Site Condition:

or propane storage tanks. Government Publication Date: 1999-Feb 28, 2023

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: 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.

PES

PINC

PRT

PTTW

REC

RSC

RST

SCT

Provincial

Provincial

Provincial

Provincial

Private This database includes an inventory of retail fuel outlet locations (including marinas) that have on their property gasoline, oil, waste oil, natural gas and /

Private

Provincial

Provincial

Provincial

Order No: 23060200052

Wastewater Discharger Registration Database:

Refining, Organic Chemicals, Inorganic Chemicals, Pulp & Paper, Metal Casting, Iron & Steel, and Quarries. Government Publication Date: 1990-Dec 31, 2020

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.

Facilities that report either municipal treated wastewater effluent or industrial wastewater discharges under the Effluent Monitoring and Effluent Limits (EMEL) and Municipal/Industrial Strategy for Abatement Regulations. The Municipal/Industrial Strategy for Abatement (MISA) division of the Ontario Ministry of Environment keeps record of direct dischargers of toxic pollutants within nine sectors including: Electric Power Generation, Mining, Petroleum

Government Publication Date: 1915-1953*

Anderson's Storage Tanks:

Transport Canada Fuel Storage Tanks:

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 - Apr 2020

Variances for Abandonment of Underground Storage Tanks:

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:

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- Apr 30, 2023

Waste Disposal Sites - MOE 1991 Historical Approval Inventory:

erisinfo.com | Environmental Risk Information Services

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:

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: Jun 30 2022

Provincial

Private

Federal

Provincial

Provincial

Provincial

Provincial



TANK

TCFT

VAR

WDS

WDSH

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.

<u>Elevation</u>: The elevation value is taken from the location at which the records for the site address have been plotted. All values are an approximation. Source: Google Elevation API.

Executive Summary: This portion of the report is divided into 3 sections:

'Report Summary'- Displays a chart indicating how many records fall on the project property and, within the report search radii.

'Site Report Summary'-Project Property'- This section lists all the records which fall on the project property. For more details, see the 'Detail Report' section.

'Site Report Summary-Surrounding Properties'- This section summarizes all records on adjacent properties, listing them in order of proximity from the project property. For more details, see the 'Detail Report' section.

<u>Map Key:</u> The map key number is assigned according to closest proximity from the project property. Map Key numbers always start at #1. The project property will always have a map key of '1' if records are available. If there is a number in brackets beside the main number, this will indicate the number of records on that specific property. If there is no number in brackets, there is only one record for that property.

The symbol and colour used indicates 'elevation': the red inverted triangle will dictate 'ERIS Sites with Lower Elevation', the yellow triangle will dictate 'ERIS Sites with Higher Elevation' and the orange square will dictate 'ERIS Sites with Same Elevation.'

<u>Unplottables:</u> These are records that could not be mapped due to various reasons, including limited geographic information. These records may or may not be in your study area, and are included as reference.

Appendix I Statement of Limitations





STATEMENT OF LIMITATIONS

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