Preliminary Hydrogeological Investigation

Proposed Residential Building 128 Lakeshore Road East Mississauga, Ontario

Prepared For:

Black Tusk Group Inc.

Project No.: 21-090-100 **Date:** October 19, 2021



DS CONSULTANTS LTD.

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Mr. Thaine Carter BlackTusk Group Inc.

Via email: thaine@blacktuskgroup.com

RE: Preliminary Hydrogeological Investigation – 128 Lakeshore Road East, Mississauga, ON

DS Consultants Limited (DS) was retained by Black Tusk Group Inc. to complete a Preliminary Hydrogeological Investigation for the proposed development located at 128 Lakeshore Road East, Mississauga, Ontario (Site). The Site has an approximate area of 930 m² and is currently developed with a single storey funeral home building. It is understood that the existing structures will be demolished, and the new development will include a 11-storey mid-rise residential building with three (3) levels of underground parking (P3).

The average ground elevation at the site is at about 79 meters above sea level (masl). The assumed maximum excavation depth for the proposed development considering footings and elevator shaft would be at about 11 meters below the existing ground surface (mbgs) (around Elev. 68 masl).

This preliminary hydrogeological investigation includes an overview of the existing geological and hydrogeological conditions at the Site and the surrounding area, an assessment of the hydrogeological constraints, impacts of the proposed development on the local groundwater, and provides an estimation of construction dewatering and permanent drainage requirements during the proposed development phase.

If needed, the results of this investigation can be used in support of an application for a Category 3 Permit to Take Water (PTTW) or an Environmental Activity Sector Registry (EASR) for construction dewatering from the Ministry of the Environment Conservation and Parks (MECP). The hydrogeological report may also be used to support Site Plan Approvals (SPA). Based on the results of this investigation, the following conclusions and recommendations are presented:

- 1. Based on the MECP water well records search, there are seventy-four (74) water wells within 500 meters of the Site. Sixty-seven (67) wells were noted as test holes/monitoring wells and seven (7) wells were noted as not in use or unknown. The study area is fully serviced with municipal water. It is not expected to have any use of groundwater as a source of drinking water within a radius of 500 meters from the Site.
- 2. On August 19, 2021, DS drilled three (3) boreholes (BH21-1 to BH21-3) and equipped all drilled boreholes with monitoring wells as part of the concurrent geotechnical and hydrogeological investigations. The boreholes were advanced to a maximum depth of 14.6 mbgs. Monitoring wells were screened to depths ranging from 4.0 to 9.3 mbgs.

- 3. The surficial geology at the Site and study area is dominated by coarse-textured glaciolacustrine deposits consisting of sand and gravel, minor silt and clay foreshore and basinal deposits and also modern alluvial deposits consist of clay, silt, sand and gravel which may contain organic remains. The overburden geology at the site generally consisted of cohesive deposits of silty clay to clayey silt till. The depth to bedrock was encountered at the Site during drilling at the depth of 7.6 mbgs.
- 4. Groundwater levels were measured in all available wells on October 12, 2021, by DS. Groundwater levels ranged from 6.46 to 8.22 mbgs or 71.40 to 71.68 masl. The estimated groundwater flow direction in the study area is inferred to be southerly towards the Lake Ontario.
- 5. Three (3) Single Well Response Tests (slug tests) were completed by DS on September 1st, 2021, to estimate hydraulic conductivity (k) for the representative geological units in which the wells were screened. Hydraulic conductivity (k) values were calculated using the Hvorslev method using the AquiferTest® Software. The k-values ranged between 4.77 x 10⁻⁸ to 3.39 x 10⁻⁷ m/s, indicative of generally low permeability lithology.
- 6. To assess the suitability for discharge of groundwater during construction to Peel Region's Sanitary/Storm Sewers, one (1) unfiltered groundwater sample was collected from monitoring well BH21-2. The reported analytical results indicated that no parameters were in exceedance of the Region's Storm Sewer Discharge By-Law criteria except Total Suspended Solid (TSS), Total Kejeldahl Nitrogen and Manganese. All parameters met the Peel Region's Sanitary Sewer Discharge By-Law criteria. Therefore, water cannot be discharged into the Region's storm sewers without basic pretreatment. Treatment is needed to comply with the water quality limits set in Table 2 for Peel Region Storm Sewer Use By-law 53-2010 before any discharge. Treatment options include but not limited to settlement and filtration of sediments. However, groundwater can be discharged to the sanitary sewer with no pre-treatment requirements if this is an available option at the time of construction.
- 7. The estimated dewatering rate during construction considering the unsealed excavation method for the proposed residential building with three (3) levels of underground parking (for a block of 45x22m) would be approximately 24,900 L/day. This estimated value incorporates a 100% safety factor and a theoretical 10 mm major storm event into the open excavation during construction. The estimate will have to be refined during detail design and additional monitoring wells may need to be installed after demolishing the existing building.
- 8. Following the construction of the underground structure, long-term groundwater flow to the underfloor drainage system for the building will be a function of the upward flux and from drainage along the foundation wall. The estimated permanent theoretical flow rate for the building is approximately 3,600 L/day with a 100% safety factor. Site grading, shoring design, etc. may alter these estimates and these values should be confirmed during detail design.
- 9. Since the expected design dewatering rate for the unsealed excavation is less than 50,000 L/day, an EASR application is not required to be submitted to the MECP for short-term dewatering prior to

construction. However, since the permanent drainage rate is below 50,000 L/day, a PTTW is not required for long-term discharge.

- 10. Once a groundwater dewatering system is set up at the Site, daily and weekly monitoring should be implemented to assess the groundwater conditions such as water levels, measurement of discharge flow, discharge water quality and any adverse impacts as a result of dewatering.
- 11. There are structures and utilities within the predicted zone of influence (ZOI) of about 25 meters when considering an unsealed excavation. Since the proposed construction is anticipated to be constructed in within the low permeable silty clay to clayey silt deposits, settlement due to dewatering is not expected.
- 12. In conformance with Regulation 903 of the Ontario Water Resources Act, the decommissioning of any dewatering system and monitoring wells should be carried out by a licensed contractor under the supervision of a licensed water well technician.

Should you have any questions regarding these findings, please do not hesitate to contact the undersigned.

DS Consultants Ltd.

Prepared By:

Reviewed By:

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FIGURES

FIGURE 1 Development Site Location and MECP Water Well Record Map

FIGURE 2 Surficial Geology Map

FIGURE 3 Borehole and Monitoring Well Location Plan

Figure 4 Geological Cross-Section A-A'

APPENDICES:

Appendix A Borehole Logs

Appendix B Hydraulic Conductivity Analysis

Appendix C Groundwater Quality Certificate of Analysis

Appendix D MECP Water Wells Records

1.0 INTRODUCTION

DS Consultants Limited (DS) was retained by Black Tusk Group Inc. to complete a Preliminary Hydrogeological Investigation for the proposed development located at 128 Lakeshore Road East, Mississauga, ON (Site). The Site has an approximate area of 930 m² and currently developed with a single storey funeral home building. It is understood that the existing structures will be demolished, and the new development will include a 11-storey mid-rise residential building with three (3) levels of underground parking (P3).

The average ground elevation at the site is at about 79 meters above sea level (masl). The assumed maximum excavation depth for the proposed development considering the footing and elevator shaft would be at about 11 meters below the existing ground surface (mbgs) (around Elev. 68 masl). No belowgrade design was available at the time of writing this report. **Figure 1** presents the site location map that highlights the location of the site and the surrounding area.

1.1 Purpose

The purpose of this Hydrogeological Investigation is to assess the current groundwater conditions at the Site in order to evaluate the following:

- Temporary construction dewatering for the excavations of the proposed building on Site;
- Explore the potential need for a Permit to Take Water (PTTW) or Environmental Activity and Sector Registration (EASR) for the purposes of Construction Dewatering from the MECP;
- Temporary management and discharge of groundwater during short term construction dewatering
- Estimate permanent drainage requirements; and
- Assess groundwater quality to identify potential adverse impacts to Peel Region's sewer system.

1.2 Scope of Work

The scope of work for this investigation included:

- Site visits;
- Desktop review of pertinent geological and hydrogeological resources;
- Review the MECP Water Well Records and water use in the surrounding area;
- Field work including monitoring well drilling program consisting of installation of three (3) monitoring wells;

- Conducting single well response tests (slug tests) to determine hydraulic conductivity values across the site;
- Characterize the stratigraphy and measure the ground water levels across the site;
- Collection and analysis of groundwater samples in order to quantify and characterize any possible contaminants that may impact future discharge applications;
- Estimation of construction dewatering volumes, which is to be used to predict the short-term groundwater control requirements for the construction of the proposed building on site.

2.0 FIELDWORK

On August 19, 2021, DS drilled three (3) boreholes (BH21-1 to BH21-3) and equipped three (3) of the drilled boreholes with monitoring wells at the site as part of the concurrent geotechnical and hydrogeological investigations. The boreholes were advanced to a maximum depth of 14.6 mbgs. Monitoring wells were screened to depths ranging from 4.0 to 9.3 mbgs. All wells were completed with 50 mm diameter PVC pipes with 3.05 m well screens and were installed using above ground mounted protective casings. All monitoring wells were developed before any use to allow for groundwater level monitoring, hydraulic conductivity testing, and to assess groundwater quality. Three (3) single well response tests (SWRTs) were completed by performing a rising head test (slug test) to estimate hydraulic conductivity values of soils at the site. One (1) unfiltered groundwater sample was also collected and analyzed for the parameters listed under the Peel Region Sewer By-law to assess groundwater quality. The borehole (BH) and monitoring well (MW) location plan is shown in **Figure 3**.

3.0 PHYSICAL SETTING

Available topographic maps, environmental, geotechnical, and hydrogeological reports were used to develop an understanding of the physical setting of the study area. Borehole logs and the MECP WWRs were used to interpret the geological and hydrogeological conditions at the development site.

3.1 Physiography and Drainage

The topography at the Site is generally flat with a surface elevation of approximately 79 metres above sea level (masl). The topography within the study area generally slopes to the south, towards Lake Ontario. Drainage is generally controlled by streams and artificial channels. Lake Ontario is located about 320 m south of the Site.

3.2 Geology

The following presents a brief description of regional and development site geology based on the review of available information and development site-specific soil investigations.

3.2.1 Quaternary Geology

The study area (500 m radius) lies within the Sand Plain physiographic region of southern Ontario and quaternary geology characterized partially by Till, undifferentiated and predominantly sandy silt to silt matrix, commonly rich in clast, often high in carbonate content matrix and also Post-Precambrian Bedrock consist of undifferentiated carbonate and clastic sedimentary rock Based on the regional mapping, the surficial geology at the Site and study area is dominated by coarse-textured glaciolacustrine deposits consist of sand and gravel, minor silt and clay foreshore and basinal deposits and also modern alluvial deposits consist of clay, silt, sand and gravel which may contain organic remains. (as per OGS Earth). The surficial geology map is shown in **Figure 2**.

3.2.2 Bedrock Geology

Available published mapping shows that bedrock in the area is predominantly shales, limestones, dolostone and siltstone of the Georgian Bay Formation, Blue Mountain Formation, Billings Formation, Collingwood Member, Eastview Member (MNDM Map 2544 Bedrock Geology of Ontario). Based on the review of existing boreholes logs and well record information, the depth to bedrock in the study area is estimated to be approximately 4.8 meters below the existing surface and was encountered at the Site during drilling at the depth of 7.6 mbgs.

3.2.3 Site Geology

On-site subsurface soil conditions were summarized from the boreholes advanced by DS for the current investigation. Detailed subsurface conditions are presented in **Figure 4**, and the borehole logs are presented in **Appendix A**. The subsurface conditions in the boreholes are summarized in the following paragraphs.

<u>Pavement Structure/Fill Materials:</u> A 50 to 100 mm surficial layer of asphalt was encountered in all boreholes overlying fill material.

Fill material was encountered in all boreholes, extending to depth of 1.5 mbgs. The fill was heterogeneous, consisting of sandy silt, clayey silt, trace gravel. Traces of organics was also observed in the fill material.

<u>Cohesive Glacial Deposits of Silty Clay to Clayey Silt Till:</u> Below the fill and disturbed native material in the boreholes, cohesive deposits of silty clay to clayey silt till were encountered, extending to depths ranging from 7.6 to 8.2 mbgs. Trace sand and gravel and occasional cobble were inferred within the till deposits.

<u>Shale bedrock:</u> Below the cohesive deposits of silty clay to clayey silt till in all boreholes at the depth ranging from 7.6 to 8.2 mbgs, shale bedrock was encountered.

3.3 Hydrogeology

The hydrogeology at the site was evaluated using the on-site monitoring wells installed by DS and other consultants, and the MECP WWRs in the study area.

3.3.1 Local Groundwater Use

As part of the hydrogeological study, DS completed a search of the Ministry of the Environment, Conservation and Parks (MECP) Water Well Records (WWRs) database. Based on the MECP water well records search, there are Seventy-four (74) water wells within 500 meters of the Site (Appendix D). Sixty-seven (67) wells were noted as test holes/monitoring wells and seven (7) wells were noted as not in use or unknown. **Figure 1** shows the MECP water well location plan. The study area is fully serviced with municipal water. It is not expected to have any use of groundwater as a source of drinking water within a radius of 500 meters from the Site.

3.3.2 Groundwater Conditions

Groundwater levels were measured in all available wells on October 12, 2021, by DS staff. **Table 3-1** presents the groundwater levels in all monitoring wells. Groundwater levels ranged from 6.46 to 8.22 mbgs or 71.40 to 71.68 masl, representing the groundwater elevation at the Site which can be subject to seasonal fluctuations. The groundwater flow direction within the site area is inferred to be south towards Lake Ontario.

Well ID	Ground Elevation (masl)	Screened Interval (mbgs)	Depth to Water (mbgs)	Groundwater Elevation (masl)
BH21-1	79.67	6.3-9.3	8.22	71.45
BH21-2	79.02	6.3-9.3	7.62	71.4
BH21-3	78.14	4.0-7.0	6.46	71.68

Table 3-1: Groundwater Levels in Monitoring Wells

3.3.3 Hydraulic Conductivity

Three (3) Single Well Response Tests (slug tests) were completed by DS on September 1st, 2021, to estimate hydraulic conductivity (k) for the representative geological units in which the wells were screened. SWRTs were completed by performing a rising head test (slug test) with the use of Waterra® tubing to 'instantaneously' remove water from the well. A data logger was placed at the bottom of the wells to accurately measure the change in the hydraulic head versus time. Hydraulic conductivity (k) values were calculated using the Hvorslev method using the AquiferTest® Software. The semi-log plots for normalized drawdown versus time are provided in **Appendix B.** The k-values ranged between 4.77 x 10^{-8} to 3.39×10^{-7} m/s, which is consistent with typical K-values 10^{-7} to 10^{-9} m/sec. **Table 3-2** presents the Hydraulic Conductivity (k) values for the representative geological units. The highest K-value of 3.39×10^{-7} m/s was used in the dewatering assessment as a conservative measure.

Well ID	Screened Interval (mbgs)	Screened Formation	K-value (m/s)	Geomean value
BH21-1	6.3-9.3	Clayey silt till	2.53 x 10 ⁻⁷	
BH21-2	6.3-9.3	Clayey silt till	3.39 x 10 ⁻⁷	1.56 x 10 ⁻⁷
BH21-3	4.0-7.0	Clavev silt till	4.77 x 10 ⁻⁸	

Table 3-2: Summary of Hydraulic Conductivity (k) Test Results

3.3.4 Groundwater Quality

To assess the suitability for discharge of groundwater to the Peel Region's Sanitary and Storm Sewers, one (1) unfiltered groundwater sample was collected from monitoring well BH21-2 on September 1st, 2021. The samples were placed in pre-cleaned laboratory supplied vials and/or bottles provided with analytical test group-specific preservatives, as required. Dedicated nitrile gloves were used during sample handling. The groundwater samples were submitted to SGS Laboratories in Mississauga, Ontario. SGS is certified by the Canadian Association of Laboratory Accreditation Inc. (CALA) and the Canadian Standard Association (CSA). The analytical results were compared to the Peel Region's Table 1- Limits for Sanitary Sewer Discharge, and Table 2 Limits for Storm Sewer Discharge. The reported analytical results indicated that no parameters were in exceedance of the Peel Region's Storm Sewer Discharge By-Law criteria except Total Suspended Solid (TSS), Total Kejeldahl Nitrogen and Manganese. All parameters met the Region's Sanitary Sewer Discharge By-Law criteria. Therefore, water cannot be discharged to the Region's storm sewers without treatment. Treatment is needed to comply with the water quality limits set in 2 for Peel Region Storm Sewer Use By-law 53-2010 before any discharge. Treatment options include but not limited to settlement and filtration of sediments. Groundwater can be discharged to the sanitary sewer without any treatment requirements. Table 3-3 presents a summary of the exceeded parameters, and the certificates of analyses are provided in **Appendix D.**

Table 3-3: Parameters in Groundwater Exceeding Peel Region's Sewer Use By-law 53-2010

Parameter	Unit	Peel Sanitary By- Law Criteria	Peel Storm By-Law Criteria	BH21-2
Total Suspended Solid (TSS)	mg/L	350	15	<u>233</u>
Total Kjeldahl Nitrogen	mg/L	100	1	3.4
Total Manganese	mg/L	5	0.05	<u>0.501</u>
Bold - Exceeds Sanitary Sewer Underlined- Exceeds Storm Sev	•	a		

4.0 CONSTRUCTION DEWATERING

The proposed residential development will include the construction of three (3) levels of underground parking (P3). No below-grade design was available at the time of writing this report, so assumptions were made to estimate the potential construction dewatering rates. The deepest assumed finished floor elevation of the P3 for the proposed development considering the footing and elevator shaft would be approximately 11 meters below the existing ground surface (mbgs) (Elev. 68 masl). For construction

dewatering purposes the water level should be lowered at least one (1) m below the footings and elevator shaft elevation at about 67 masl. The open-cut construction excavation method for entire Site with excavation dimensions of 45 m long and 22 m wide was considered for the proposed development. Since the proposed underground structure will be below the groundwater table, dewatering will be required during the excavation of overburden material.

The following section calculates the estimated dewatering required during the construction of the proposed developments using the steady-state flow equation for an unsealed excavation.

4.1 Total Estimation of Flow Rate- (Short Term/Construction Dewatering)

This section calculates the estimated dewatering needed considering the open-cut excavation methods.

As a conservative measure, the estimated dewatering values are based on the highest k-value obtained from the in-situ hydraulic testing and highest groundwater elevation using the Dupuit expression for an unconfined aquifer in steady-state conditions.

$$Q = \frac{\pi (H^2 - h^2)}{2.3 \log \left(\frac{R_0}{re}\right)}$$

Equation 4.1

$$R_0 = C(H - h)\sqrt{k}$$

Equation 4.2

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

Equation 4.3

Where,

Q- Flow rate = $3,700 \text{ L/day} (7.5 \text{ m}^3/\text{day})$

H- Initial Elevation of Water Table = 5.63 m

h- Final Elevation of Water Table = 1 m

K- Hydraulic Conductivity= 3.39 x 10⁻⁷ m/s

Ro- Radius of Influence = 25 m

Re- Equivalent Radius = 17 m

a- Length of excavation = 45 m

b- Width of excavation = 22 m

C- Dimensionless constant= 3

Additional pumping capacity may be required to maintain dry conditions within the open excavations during and following a major precipitation event. The estimated flow rate is based on the excavation dimensions and a 10 mm precipitation event in 24 hours. The total estimated dewatering that may be required from a 10 mm precipitation event is approximately **9,900 L/day (9.9 m³/day).**

The total estimated daily rate for short term construction is estimated to be **15,000 L/day (15 m³/day)** with an applied safety factor of %100. With the addition of storm water, the total estimated maximum daily rate would result to be **24,900 L/day (24.9 m³/day).**

It is expected that the initial dewatering rate will be higher to remove groundwater within the overburden formation. The dewatering rates are expected to decrease once the target water level is achieved in the excavation footprint as groundwater will have been removed locally from storage resulting in lower seepage rates into the excavation. The maximum flow calculation is intended to provide a conservative value to account for unforeseeable conditions that may arise during construction.

4.3 Permanent Drainage (Long-term Discharge)

Following the construction of the underground structure, long-term groundwater flow to the underfloor drainage system for the building will be a function of the upward flux and from drainage along the foundation wall. The horizontal hydraulic gradient was calculated based on the groundwater levels recorded on September 1st, 2021. The Darcy flow equation was used to estimate permanent drainage to the building as follows:

Q = K x i x A EQUATION 4.4

Where,

Q- Flow (L/day)	1,800
A- Area (m²)	990
i- Hydraulic Gradient	0.063
K- Hydraulic Conductivity (m/day)	0.029

Based on the assumed design, depth to water and given K-value, the estimated permanent theoretical flow to the development is approximately **3,600 L/day (3.6 m³/day)** with a safety factor of 100%. The drainage control system around and beneath the buildings should be designed with enough capacity to handle the expected permanent volume. This value is recommended to be verified once the underground construction is completed and access is provided to DS to assess actual flow rates at the sumps.

4.4 Permit Requirements

4.4.1 Environmental Activity and Sector Registry (EASR) / Permit to Take Water (PTTW) Application

An EASR is required to be submitted to the MECP if the taking of groundwater and stormwater for a temporary construction project is between 50,000 L/day and 400,000 L/ day. The EASR application is an online registry and should be submitted to the MECP before any construction dewatering. A PTTW is only required to be submitted to the MECP if the taking of groundwater and stormwater for a temporary construction project is more than 400,000 L/ day.

Since the expected design dewatering rate for the unsealed excavation is less than 50,000 L/day, an EASR application is not required to be submitted to the MECP for short-term dewatering prior to construction. Since the permanent drainage rate is below 50,000 L/day, a PTTW is not required for long-term discharge. These values can change based on actual soil and groundwater conditions at the site.

4.4.2 Discharge Permits (Construction Dewatering)

A discharge permit may be required from the Peel Region/City of Mississauga if groundwater is to be sent to the sewer system for construction dewatering and permanent drainage.

5.0 POTENTIAL IMPACTS

The following are the predicted potential impacts due to construction dewatering:

5.1 Local Groundwater Use

The study area is fully serviced by a municipal water supply system. It is not expected to have any use of groundwater as a source of drinking water within a radius of 500 meters from the Site or zone of influence (20 m from the centre of excavation).

5.2 Point of Discharge and Groundwater Quality

The reported analytical results indicated that no parameters were in exceedance of the Peel Region's Storm Sewer Discharge By-Law criteria except Total Suspended Solid (TSS), Total Kjeldahl Nitrogen and Manganese. All parameters met the Region's Sanitary Sewer Discharge By-Law criteria. Therefore, groundwater at the Site is not suitable for direct discharge into the Region's storm sewers without treatment. Treatment is needed to comply with the water quality limits set in for Peel Region's Table 2 Limits for Storm Sewer Discharge before any discharge. Treatment options include but are not limited to settlement and filtration of sediments.

5.3 Settlement Due to Dewatering Activities

There are structures and utilities within the maximum predicted zone of influence (ZOI) about 25 meters when considering an unsealed excavation. Since the proposed construction is anticipated to be constructed within the low permeable silty clay till deposits, settlement due to dewatering would be negligible.

5.4 Well Decommissioning

Following the completion of construction activities, all dewatering wells, well points, eductors and monitoring wells installed at various stages of this project must be decommissioned. The installation and eventual decommissioning of the wells and the dewatering system must be carried out by a licenced water well contractor in accordance with Regulation 903 of the Ontario Water Resources Act.

6.0 MONITORING AND MITIGATION

Based on the finding of hydrogeological assessment and associated potential impacts due to development, the following monitoring and mitigation program is provided:

- Baseline groundwater quality has been assessed and established before construction. However, groundwater quality can change based on several factors (land-use change, spills, etc.) and should be monitored during construction dewatering and after construction to ensure that water quality meets the guideline or regulations associated with any permits from the MECP and the Region.
- Once a groundwater dewatering system is set up at the Site, daily and weekly monitoring should be implemented to assess the groundwater conditions such as water levels, measurement of discharge flow, discharge water quality and any adverse impacts as a result of dewatering include settlement.
- Based on this preliminary dewatering assessment, an EASR application is not required. Additional
 monitoring may be required by the MECP to be implemented during the design stage.
- A discharge permit may be required to be submitted to the Peel Region/City of Mississauga for short-term dewatering if private water is sent to the sewer system.
- Following the completion of construction activities, all dewatering wells, well points, eductors and
 monitoring wells installed at various stages of this project must be decommissioned. The
 installation and eventual decommissioning of the wells and the dewatering system must be
 carried out by a licensed water well contractor in accordance with Regulation 903 of the Ontario
 Water Resources Act.

7.0 LIMITATIONS

This report was prepared for the sole use of the addressee to provide an assessment of the hydrogeological conditions on the property. The information presented in this report is based on information collected during the completion of the hydrogeological investigation. DS Consultants Limited was required to use and rely upon various information sources produced by other parties. The information provides in this report reflects DS' judgment in light of the information available at the time of report preparation. This report may not be relied upon by any other person or entity without the written authorization of DS Consultants Ltd. The scope of services performed in the execution of this investigation may not be appropriate to satisfy the needs of other users, and any use or reuse of this documents or finding, conclusions, and recommendations represented herein, is at the sole risk of said users. The conclusions drawn from the Hydrogeological report were based on information at selected observation and sampling locations. Different conditions between and beyond these locations may become apparent during future investigations or on-site work, which could not be detected or anticipated at the time of this investigation. DS Consultants Ltd. cannot be held responsible for hydrogeological conditions at the site that was not apparent from the available information.

Should you have any questions regarding these findings, please do not hesitate to contact the undersigned.

DS Consultants Ltd.

Prepared By:

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Meysam Jafari, M.Sc., P.Geo. Geologist Martin Gedeon, M.Sc., P.Geo. Senior Hydrogeologist

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8.0 CONSULTANT QUALIFICATIONS

Martin Gedeon, M.Sc., P.Geo., is a Professional Geoscientist (P.Geo.) with over 25 years of experience as an environmental/hydrogeological consultant in the areas of groundwater and soil monitoring, environmental site assessments, environmental due diligence, and remediation. Martin has significant experience in physical and contaminant hydrogeology across Canada and overseas and has provided hydrogeological/environmental technical support on various projects. Martin has prepared hundreds of hydrogeological reports in support of permit applications for a private sector development application, municipal dewatering operations, and provincial infrastructure projects across the province.

Meysam Jafari, M.Sc., P.Geo., is a Professional Geoscientist (P.Geo.) with DS Consultants Ltd. Meysam holds two master's degrees in Engineering Geology and Geology (Soil & Groundwater) and has several years of experience working in the geoscience industry. Meysam has experience with conducting Phase One and Phase Two Environmental Site Assessments, hydrogeological and geotechnical investigations in the Greater Toronto Area (GTA), and has been involved with project coordination, field assessments, data interpretation and reporting.

9.0 REFERENCES

Approved Source Protection Plan: CTC Source Protection Region. Prepared by: CTC Source Protection Committee. Amendment (Version 2.0). Effective March 25, 2019

Chapman, L.J., and D.F. Putnam; The Physiography of Southern Ontario, Third Edition, Ontario Geological Survey Special Volume 2; 1984, & 2007.

Freeze, R.A. and J.A. Cherry. "Groundwater". Prentice-Hall, Inc. Englewood Cliffs, NJ. 1979.

Ontario Regulation 245/11- Environmental Activity and Sector Registry.

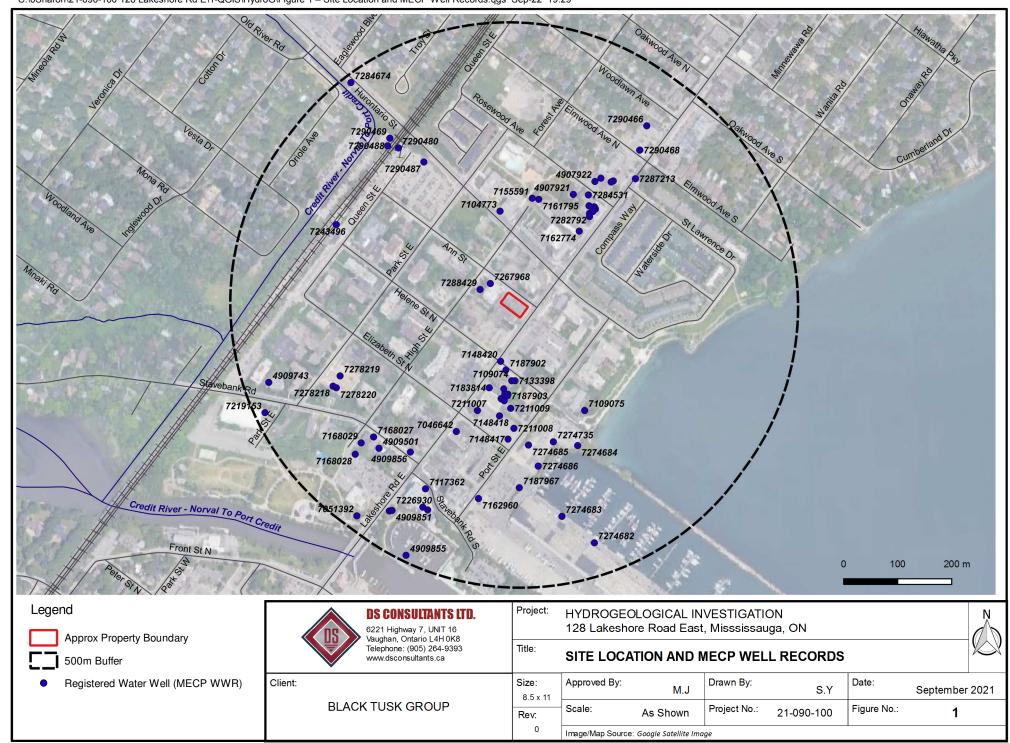
Ontario Ministry of Environment and Climate Change, Permit to Take Water Manual, April 2005

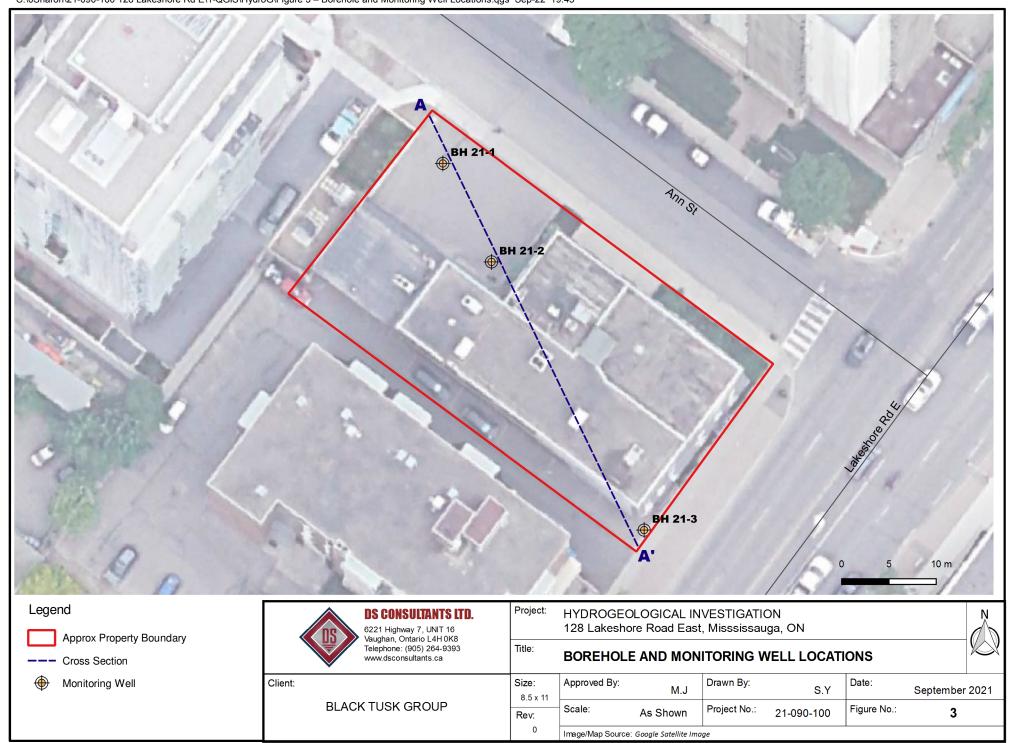
Phase II Environmental Site Assessment- 351-365 Royal York Road, Etobicoke, Ontario. Prepared by Cambium Inc. January 19, 2021.

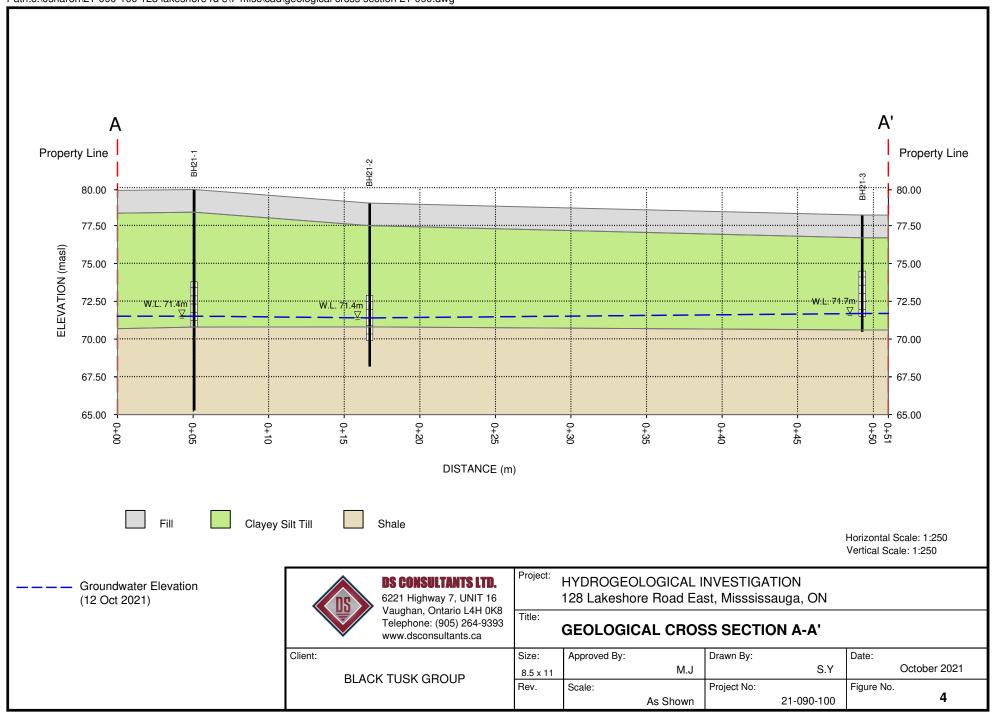
Powers, J. Patrick, P.E. (1992); Construction Dewatering: New Methods and Applications - Second Edition, New York: John Wiley & Sons.

Pat M. Cashman and Martin Preene; Groundwater Lowering in Construction- Second Edition, CRC Press.

Figures







Appendices

Appendix A: Borehole Logs



PROJECT: Geotechnical Investigation - 128 Lakeshore Road East

CLIENT: BlackTusk Group Inc.

PROJECT LOCATION: 128 Lakeshore E, Mississauga, ON

DATUM: Geodetic

DRILLING DATA

Method: Solid Stem Auger

Diameter: 150mm REF. NO.: 21-090-100

Date: Aug-19-2021 ENCL NO.: 2

ELSO DESCRIPTION DESCRIP		SOIL PROFILE		S	AMPL	.ES				DYNA RESIS	MIC CO	NE PE E PLOT	NETR	OITA	١	DI ACT	IC NAT	URAL	HOLID		Т	REMA	RKS
1 2 3 3 5 5 5 5 5 5 5 5	ELEV	DESCRIPTION	A PLOT	2		OWS 3 m	ID WATER		NOI	SHEA	0 4	0 6 RENG	50 TH (k	80 (Pa)	100	LIIVIII	CON	NTENT		CKET PEN. (kPa)	RAL UNIT W (kN/m³)	AN GRAIN	ID I SIZE
1 SS 5 5 5 5 5 5 5 5		DESCRIPTION	STRAT/	NUMBE	TYPE		GROUN	CONDI	ELEVAT	• Q	UICK T	RIAXIA	L X	LAB	VANE				. ,	O)	NATU		
78		ASPHALT: 100mm FILL: sandy silt_trace gravel	\otimes			5				-							0						
78.2 CLAYEY SILT TILL/ sandy, some gravel, cocasional cobble, brown, moist, stiff 7.1 CLAYEY SILT TILL/ sandy, some gravel, cocasional cobble, brown, moist, stiff 7.2 1 CLAYEY SILT TILL/ shade 7.5 SS 29 7.6 COMPLEX: sandy, some gravel, grey below 3. 1m 7.7 SS 22 7.7 SS 22 7.7 Total cocasional cobble, brown, moist, sandy, some gravel, grey below 3. 1m 7.8 SS 24 7.9 Total cocasional cobble, brown, moist, sandy, some gravel, grey below 3. 1m 7.8 SS 24 7.9 Total cocasional cobble, brown, moist, sandy, some gravel, grey below 3. 1m 7.8 SS 24 7.9 Total cocasional cobble, brown, moist, sandy, some gravel, grey below 3. 1m 7.9 Total cocasional cobble, brown, moist, sandy, some gravel, grey below 3. 1m 7.0 SS 29 7.1 Total cocasional cobble, brown, moist, sandy, some gravel, grey below 3. 1m 7.0 SS 29 7.1 Total cocasional cobble, brown, moist, sandy, some gravel, grey below 3. 1m 7.0 SS 29 7.1 Total cocasional cobble, brown, moist, sandy, some gravel, grey below 3. 1m 7.0 SS 29 7.1 Total cocasional cobble, brown, moist, sandy, some gravel, grey below 3. 1m 7.0 SS 29 7.1 Total cocasional cobble, brown, moist, sandy, some gravel, grey below 3. 1m 7.0 SS 29 7.1 Total cocasional cobble, brown, moist, sandy, some gravel, grey below 3. 1m 7.0 SS 29 7.1 Total cocasional cobble, brown, moist, sandy, some gravel, grey below 3. 1m 7.0 SS 29 7.1 Total cocasional cobble, brown, moist, sandy, some gravel, grey below 3. 1m 7.0 SS 29 7.1 Total cocasional cobble, brown, moist, sandy, some gravel, grey below 3. 1m 7.1 Total cocasional cobble, brown, moist, sandy, some gravel, grey below 3. 1m 7.1 Total cocasional cobble, brown, moist, sandy, some gravel, grey below 3. 1m 7.1 Total cocasional cobble, brown, moist, sandy, some gravel, grey below 3. 1m 7.1 Total cocasional cocasional cocasional cobble, brown, moist, sandy, some gravel, grey below 3. 1m 7.1 Total cocasional coc		brown, moist, loose	\bigotimes				ı		79	<u> </u>													
seams, brown, moist, stiff 77.4 2.3 CLAYEY SILT TILL: sandy, some gravel, occasional cobble, brown, moist, very stiff to hard grey below 3.1m 5 SS 29 76 6 SS 39 77 78 79 70 70 8 SS 22 71 72 72 73 74 75 76 CLAYEY SILT TILL/SHALE COMPLEX: sandy, some gravel, grey, moist, hard 8 SS 35 8 SS 35 8 SS 35 8 SS 36 70 8 SS 29 70 8 SS 29 70 71 72 73 74 75 76 77 78 78 79 8 SS 22 78 79 70 81 8 SS 35 8 SS 36	78.2	moist, firm	\bigotimes	2	SS	4				<u> </u>								0					
2. CLAYEY SILT TILL: sandy, some gravel, grey, moist, hard 2. T.6. CLAYEY SILT TILUSHALE COMPLEX: sandy, some gravel, grey, moist, hard 2. T.6. Shall BEDROCK: Gerogian Bay formation, grey, weathered R1 RC	2			3	SS	13			78									0					
moist, very stiff to hard grey below 3.1m 5 SS 29 6 SS 39 74 77 72 72 72 77 78 8 SS 22 77 79 70 8 SS 35 70 8 SS 35 70 8 SHALE BEDROCK: Gerogian Bay formation, grey, weathered 8 R1 RC 88	2.3	CLAYEY SILT TILL: sandy, some		4	SS	24	ı		77														
5 SS 29 6 SS 39 7 74 7 SS 22 7 72 7 8 CLAYEY SILT TILL/SHALE COMPLEX: sandy, some gravel, grey, moist, hard 8 SS 35 9 NLE BEDROCK: Gerogian Bay formation, grey, weathered 8 R1 RC R1 RC R2 RC 68 R3 RC 68	3	moist, very stiff to hard							11														
7 SS 22 73 73 73 73 73 73 73 74 75 75 75 75 75 75 75 75 75 75 75 75 75	-			5	SS	29			76														
7 SS 22 73 73 73 73 73 74 75 SS 22 75 75 75 75 75 75 75 75 75 75 75 75 75	4																						
7 SS 22 73 73 73 72 72.1 CLAYEY SILT TILL/SHALE COMPLEX: sandy, some gravel, grey, moist, hard 8 SS 35 72 72 70.6 9.1 SHALE BEDROCK: Gerogian Bay formation, grey, weathered 8 R2 RC 69 68 68	-			6	SS	39	ı		75					-									
7 SS 22 73 73 73 73 72 72 72 72 73 74 75 75 75 75 75 75 75 75 75 75 75 75 75	-			Ů						<u> </u>													
72.1 73. 75. 76. CLAYEY SILT TILL/SHALE COMPLEX: sandy, some gravel, grey, moist, hard 9 SS 35	6								74	<u> </u>													
7.6 CLAYEY SILT TILL/SHALE COMPLEX: sandy, some gravel, grey, moist, hard 9.1 SHALE BEDROCK: Gerogian Bay formation, grey, weathered R1 RC R2 RC R3 RC R3 RC R6 R3 RC R6 R				7	SS	22			70								0						
7.6 CLAYEY SILT TILL/SHALE COMPLEX: sandy, some gravel, grey, moist, hard 8 SS 35 35 35 35 35 35 35 35 35 35 35 35 35	: : <u>7</u>								73														
COMPLEX: sandy, some gravel, grey, moist, hard SHALE BEDROCK: Gerogian Bay formation, grey, weathered R1 RC R2 RC R3 BC 67		CLAYFY SILT TILL/SHALF							72														
9.1 SHALE BEDROCK: Gerogian Bay formation, grey, weathered R1 RC R2 RC R3 RC R3 RC R3 RC	8	COMPLEX: sandy, some gravel,		8	SS	35				E							o F					16 20	49 1
9.1 SHALE BEDROCK: Gerogian Bay formation, grey, weathered R1 RC R2 RC R2 RC R3 RC R3 RC R3 RC								: V	v. L. Oct 12	7 1.5 11 !, 2021 E	 			-									
R1 RC 70 69 68 68 67 67		SHALE BEDROCK: Gerogian Bay	26//	9 /	SS		_ 	ļ.··.		<u> </u>													
R2 RC 68	10	iormation, grey, weathered		R1	RC	<u> 201111</u>	A Company		70	-													
R2 RC 68									00	-													
68 B3 RC	11			D2	DC.				69	Ē													
R3 RC 67	-			R2	RC				68	<u> </u>													
R3 RC 67 R4 RC 66 R5 R6 RC 66 R6 R	12																						
R4 RC END OF BOREHOLE: Notes: 1) Augar refusal at 9.1m. 2) 50mm dia. monitoring well installed upon completion. 3) Water Level Readings: Date: Water Level(mbgl): Oct. 12, 2021 8.22	-			R3	RC				67	Ē													
R4 RC Send of Borehole: R4 RC Rd Rd Rd Rd Rd Rd Rd	13									-													
END OF BOREHOLE: Notes: 1) Augar refusal at 9.1m. 2) 50mm dia. monitoring well installed upon completion. 3) Water Level Readings: Date: Water Level(mbgl): Oct. 12, 2021 8.22	14			D4	DO				66	<u> </u>													
14.6 END OF BOREHOLE: Notes: 1) Augar refusal at 9.1m. 2) 50mm dia. monitoring well installed upon completion. 3) Water Level Readings: Date: Water Level(mbgl): Oct. 12, 2021 8.22	65.1			K4	KC																		
Date: Water Level(mbgl): Oct. 12, 2021 8.22	14.6	Notes: 1) Augar refusal at 9.1m. 2) 50mm dia. monitoring well installed upon completion.																					



PROJECT: Geotechnical Investigation - 128 Lakeshore Road East

CLIENT: BlackTusk Group Inc.

PROJECT LOCATION: 128 Lakeshore E, Mississauga, ON

DATUM: Geodetic

DRILLING DATA

Method: Solid Stem Auger

Diameter: 150mm REF. NO.: 21-090-100

Date: Aug-19-2021 ENCL NO.: 3

	SOIL PROFILE		S	SAMPL	.ES			D R	YNAI ESIS	MIC CC TANCE	NE PEN PLOT	NETRA	ATION		DI 407	_ NAT	URAL	1101		F	REMARKS
n)		 -				GROUND WATER					0 60			00	LIMIT	C MOIS	TURE	LIQUID LIMIT W _L ——I	Ä.	NATURAL UNIT WT (kN/m³)	AND
EV		STRATA PLOT			BLOWS 0.3 m	× ×		s	HEA	R STI	RENGT	H (kF	∟—— Pa)		W _P		N	W_L	(KPa	15 (m/y	GRAIN SIZ
PTH	DESCRIPTION	Ι¥	NUMBER		3LO 0.3		ELEVATION		1U C	NCONF	INED	+	FIELD V & Sensiti	ANE vity	l				000	통종	(%)
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9.0	ASPHALT: 80mm			<u> </u>	-	0 0) ш	╀		0 4	0 60) 8	0 1	00	1	0 2	20	30	⊢		GR SA SI
9:9	FILL: sandy silt, trace organics,	\times	1	SS	6			E								0					
8.2	brown, moist, loose	\boxtimes						E													
8.0	FILL: clayey silt, trace sand, silt seams, brown, moist, firm	\times	2	SS	4			78									0		┨		
7.5		\otimes						E													
1.5	CLAYEY SILT TILL: some sand, some gravel, occasional cobble,	19/	3	SS	22			ŧ									0				
	brown, moist, very stiff to hard		\vdash				•	77											1		
	grey below 2.3m		4	SS	25			Ē								0					
			1	00	20			[
			╁					76											1		
			5	SS	40			F							0	1					
								75													
			1					13													
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			1					Ė													
	shale fragments below 7.6m		8	SS	38		.: W. I	L. 71	.4 m							⊢	L.				20 18 48
8.0	OUAL E REPROCK. Commission Proc	181	Ľ			₽₽	::: Oct	12, 2	2021							_			1		20 10 10
8.2	SHALE BEDROCK: Georgian Bay formation, grey, weathered					居甘		E													
	, 3					EĦ		, ,													
			9	SS	50/			70													
					1 <u>50mr</u>	/		Ē													
						$ \cdot $	∴ ,	69													
								Ē													
8.2				-00	50/		<u>: </u>	Ė													
0.8	END OF BOREHOLE:		10/	33	25mn	1															
	Notes: 1) 50mm dia. monitoring well					1															
	installed upon completion.																		1		
	2) Water Level Readings:																		1		
	Date: Water Level(mbgl):																				
	Oct. 01, 2021 7.62																				
																			1		
																			1		
																			1		
																			1		
																			1		
														i .							



PROJECT: Geotechnical Investigation - 128 Lakeshore Road East

CLIENT: BlackTusk Group Inc.

PROJECT LOCATION: 128 Lakeshore E, Mississauga, ON

DRILLING DATA

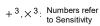
Method: Solid Stem Auger

Diameter: 150mm REF. NO.: 21-090-100

	OCATION: See Drawing 1 N 4823383.9 SOIL PROFILE			SAMPL	ES			DYN	AMIC C	ONE PE	NETRA	ATION								
(m) LEV EPTH	DESCRIPTION	STRATA PLOT	NUMBER	TYPE	"N" BLOWS	GROUND WATER CONDITIONS	ELEVATION	SHE	20 AR ST JNCON QUICK 1	40 6 RENG FINED RIAXIA	TH (ki	Pa) FIELD \ & Sensi		CON V ER CO	TENT W DOMTEN	LIQUID LIMIT W _L ——I T (%)	POCKET PEN. (Cu) (kPa)	NATURAL UNIT WT (kN/m³)	REMAI ANI GRAIN DISTRIBI (%)	D SIZI UTIO)
7 9.0 77.3	ASPHALT: 50mm FILL: silty sand, trace brick pieces, brown, moist, loose		1	SS	4		78	3					0							
0.8 76.6	FILL: silty clay, trace sand, brown to grey, moist, very soft		2	SS	2		7	7							0					
1.5	CLAYEY SILT TILL: sandy, trace gravel, brown, moist, stiff to hard		3	SS	14		70	5						0						
			4	SS	47									o						
	grey below 3.1m		5	SS	35		7: ∷ ∷:	5						0			-			
			6	SS	53		7.						(>						
	shale fragments at 6.1m						7:													
	Shale haghlenis at 0. IIII		7	SS	57		W. L. Oct 1	2, 202	 m 21 				0							
70.5 7 0.6	SHALE BEDROCK. Georgian Bay	11/1	8 /	33			-	1					0							_
7.7	formation, grey, weathered END OF BOREHOLE: Notes: 1) 50mm dia. monitoring well installed upon completion. 2) Water Level Readings: Date: Water Level(mbgl): Oct. 12, 2021 6.46																			







Appendix B: Hydraulic Conductivity Analysis

Slug Test Analysis Report

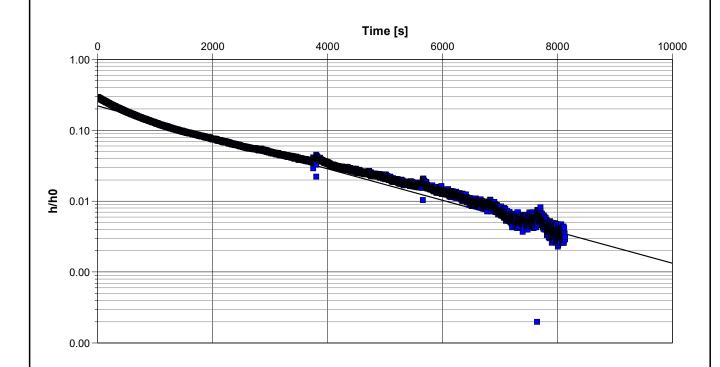
Project: 128 Lakeshore Road E.

Number: 21-090-100

Client: BlackTusk Group Inc.

Location: Missassauga, ONSlug Test: BH21-1Test Well: BH21-1Test Conducted by: HSTest Date: 9/1/2021Analysis Performed by: MJHvorslevAnalysis Date: 9/14/2021

Aquifer Thickness:



Calculation using Hvorslev

Observation Well	Hydraulic Conductivity	
	[m/s]	
BH21-1	2.53 × 10 ⁻⁷	

Slug Test Analysis Report

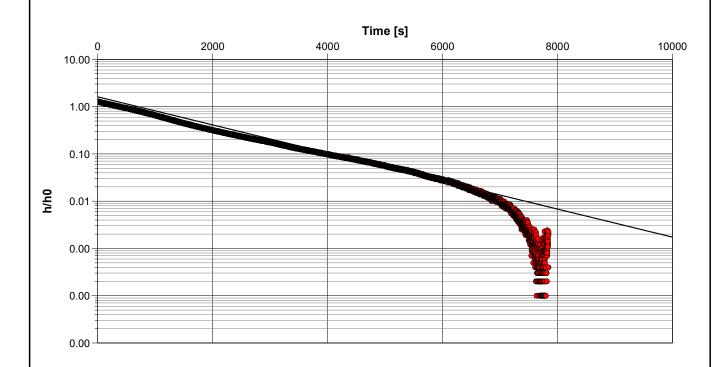
Project: 128 Lakeshore Road E.

Number: 21-090-100

Client: BlackTusk Group Inc.

Location: Missassauga, ONSlug Test: BH21-2Test Well: BH21-2Test Conducted by: HSTest Date: 9/1/2021Analysis Performed by: MJHvorslevAnalysis Date: 9/14/2021

Aquifer Thickness:



Calculation using Hvorslev

Observation Well	Hydraulic Conductivity	
	[m/s]	
BH21-2	3.39 × 10 ⁻⁷	

Slug Test Analysis Report

Project: 128 Lakeshore Road E.

Number: 21-090-100

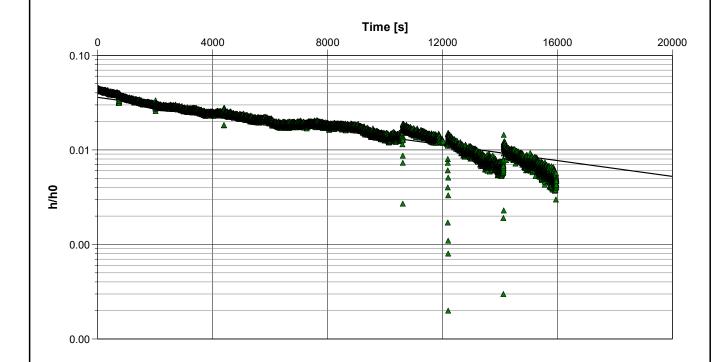
Client: BlackTusk Group Inc.

Location: Missassauga, ON Slug Test: BH21-3 Test Well: BH21-3

Test Conducted by: HS Test Date: 9/1/2021

Analysis Performed by: MJ Hvorslev Analysis Date: 9/14/2021

Aquifer Thickness:



Calculation using Hvorslev

Observation Well	Hydraulic Conductivity	
	[m/s]	
BH21-3	4.77 × 10 ⁻⁸	

Appendix C: Groundwater Quality Certificate of Analysis







FINAL REPORT

CA14855-SEP21 R1

21-090-100, 128 Lakeshore Rd E

Prepared for

DS Consultants



FINAL REPORT

First Page

CLIENT DETAILS	S	LABORATORY DETAIL	LS
Client	DS Consultants	Project Specialist	Brad Moore Hon. B.Sc
		Laboratory	SGS Canada Inc.
Address	6221 Highway 7 Unit 16	Address	185 Concession St., Lakefield ON, K0L 2H0
	Vaughan, Ontario		
	L4H 0K8. Canada		
Contact	Meysam Jafari	Telephone	705-652-2143
Telephone	905-264-9393	Facsimile	705-652-6365
Facsimile	905-264-2685	Email	brad.moore@sgs.com
Email	meysam.jafari@dsconsultants.ca	SGS Reference	CA14855-SEP21
Project	21-090-100, 128 Lakeshore Rd E	Received	09/01/2021
Order Number		Approved	09/10/2021
Samples	Ground Water (1)	Report Number	CA14855-SEP21 R1
		Date Reported	09/10/2021

COMMENTS

RL - SGS Reporting Limit

Temperature of Sample upon Receipt: 9 degrees C

Cooling Agent Present: Yes
Custody Seal Present: Yes

Chain of Custody Number: 026486

SIGNATORIES

Brad Moore Hon. B.Sc

SGS Canada Inc. 185 Concession St., Lakefield ON, K0L 2H0 t 705-652-2143 f 705-652-6365

20 Member of the SGS Group (SGS SA)

www.sgs.com

CA14855-SEP21 R1





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Results	3-8
Exceedance Summary	9
QC Summary	10-18
Legend	19
Annexes	20



Chromium (total)

Copper (total)

Cobalt (total)

FINAL REPORT

CA14855-SEP21 R1

Client: DS Consultants

Project: 21-090-100, 128 Lakeshore Rd E

Project Manager: Meysam Jafari **Samplers:** Harminder Sahota

PACKAGE: SANSEW - General Chem i	istry		Sar	mple Number	8
WATER)	,				
WATER)				NI- NI	DUI04 0
				Sample Name	BH21-2
1 = SANSEW / WATER / Peel Table 1 - Sanitary Sewer I	Discharge - BL_53_2010			Sample Matrix	
2 = SANSEW / WATER / Peel Table 2 - Storm Sewer Dis	scharge - BL_53_2010			Sample Date	01/09/2021
Parameter	Units	RL	L1	L2	Result
General Chemistry					
Biochemical Oxygen Demand (BOD5)	mg/L	2	300	15	< 4↑
Total Suspended Solids	mg/L	2	350	15	233
Total Kjeldahl Nitrogen	as N mg/L	0.5	100	1	3.4
PACKAGE: SANSEW - Metals and Ino	rganics		Sar	mple Number	8
WATER)					
			ક	Sample Name	BH21-2
1 = SANSEW / WATER / Peel Table 1 - Sanitary Sewer I	Discharge - BL 53 2010		S	Sample Matrix	Ground Water
2 = SANSEW / WATER / Peel Table 2 - Storm Sewer Dis	_				
				Sample Date	01/09/2021
Parameter	Units	RL	L1	Sample Date	01/09/2021 Result
	Units	RL			
Metals and Inorganics			L1		Result
Metals and Inorganics Fluoride	mg/L	0.06	L1	L2	Result
Metals and Inorganics Fluoride Cyanide (total)	mg/L mg/L	0.06	L1 10 2		0.27 < 0.01
Metals and Inorganics Fluoride	mg/L	0.06	L1	L2	0.27 < 0.01 74
Metals and Inorganics Fluoride Cyanide (total)	mg/L mg/L	0.06	L1 10 2	L2	0.27 < 0.01
Fluoride Cyanide (total) Sulphate	mg/L mg/L mg/L	0.06 0.01 2	10 2 1500	L2	0.27 < 0.01 74
Fluoride Cyanide (total) Sulphate Aluminum (total)	mg/L mg/L mg/L mg/L	0.06 0.01 2 0.001	10 2 1500 50	L2	0.27 < 0.01 74 0.881

0.00142

0.0012

0.00160

3

0.00008

0.0002

0.00000

mg/L

mg/L

mg/L

5

3

5

0.08

0.05



Zinc (total)

FINAL REPORT

CA14855-SEP21 R1

Client: DS Consultants

Project: 21-090-100, 128 Lakeshore Rd E

Project Manager: Meysam Jafari

Samplers: Harminder Sahota

PACKAGE: SANSEW - Metals and Inor	rganics		Sai	mple Number	8
(WATER)			s	sample Name	BH21-2
L1 = SANSEW / WATER / Peel Table 1 - Sanitary Sewer D	Discharge - BL_53_2010			ample Matrix	
L2 = SANSEW / WATER / Peel Table 2 - Storm Sewer Dis	scharge - BL_53_2010			Sample Date	01/09/2021
Parameter	Units	RL	L1	L2	Result
Metals and Inorganics (continued)					
Lead (total)	mg/L	0.00009	3	0.12	0.00041
Manganese (total)	mg/L	0.00001	5	0.05	0.501
Molybdenum (total)	mg/L	0.00004	5		0.00526
Nickel (total)	mg/L	0.0001	3	0.08	0.0023
Phosphorus (total)	mg/L	0.003	10	0.4	0.094
Selenium (total)	mg/L	0.00004	1	0.02	0.00009
Silver (total)	mg/L	0.00005	5	0.12	< 0.00005
Tin (total)	mg/L	0.00006	5		0.00509
Titanium (total)	mg/L	0.00005	5		0.00807

0.008

0.002

mg/L

3

0.04



CA14855-SEP21 R1

Client: DS Consultants

Project: 21-090-100, 128 Lakeshore Rd E

Project Manager: Meysam Jafari
Samplers: Harminder Sahota

PACKAGE: SANSEW - Microbiology (W	VATER)		Sai	mple Number	8
			S	Sample Name	BH21-2
L1 = SANSEW / WATER / Peel Table 1 - Sanitary Sewer D	ischarge - BL_53_2010		s	Sample Matrix	Ground Water
L2 = SANSEW / WATER / Peel Table 2 - Storm Sewer Disc				Sample Date	01/09/2021
Parameter	Units	RL	L1	L2	Result
Microbiology					
E. Coli	cfu/100mL			200	<2↑
E. Coll	CTU/100ML	-		200	<u> </u>
PACKAGE: SANSEW - Nonylphenol an	nd		Sai	mple Number	8
• •	···			•	
Ethoxylates (WATER)					
				Sample Name	BH21-2
L1 = SANSEW / WATER / Peel Table 1 - Sanitary Sewer D	ischarge - BL_53_2010			Sample Matrix	Ground Water
L2 = SANSEW / WATER / Peel Table 2 - Storm Sewer Disc	charge - BL_53_2010			Sample Date	01/09/2021
Parameter	Units	RL	L1	L2	Result
Nonylphenol and Ethoxylates					
Nonylphenol	mg/L	0.001	0.02		0.001
Nonylphenol Ethoxylates	mg/L	0.01	0.2		< 0.01
Nonylphenol diethoxylate	mg/L	0.01	1		< 0.01
Nonylphenol monoethoxylate	mg/L	0.01			< 0.01
Nonyiphenoi monoemoxyiate	IIIg/L	0.01			- 0.01
PACKAGE: SANSEW - Oil and Grease	(WATER)		Sai	mple Number	8
	(******		9	Sample Name	BH21-2
				Sample Matrix	Ground Water
L1 = SANSEW / WATER / Peel Table 1 - Sanitary Sewer D				•	
L2 = SANSEW / WATER / Peel Table 2 - Storm Sewer Disc				Sample Date	01/09/2021
Parameter	Units	RL	L1	L2	Result
Oil and Grease					
Oil & Grease (total)	mg/L	2			< 2
Oil & Grease (animal/vegetable)	mg/L	4	150		< 4
Oil & Grease (mineral/synthetic)	mg/L	4	15		< 4
o a oroado (minoral/dynaroad)	mg/L	•	10		•



CA14855-SEP21 R1

Client: DS Consultants

Project: 21-090-100, 128 Lakeshore Rd E

Project Manager: Meysam Jafari
Samplers: Harminder Sahota

DACKACE: CANCELL Other (ODD) (MA	TED)			ample Number	8
PACKAGE: SANSEW - Other (ORP) (WA	NIEK)			Sample Name	BH21-2
14 = CANCEW / WATED / Dool Toble 4 Capiter Course Direct	horao DI 52 2040			Sample Matrix	Ground Water
L1 = SANSEW / WATER / Peel Table 1 - Sanitary Sewer Disch L2 = SANSEW / WATER / Peel Table 2 - Storm Sewer Dischar				Sample Date	01/09/2021
Parameter	Units	RL	L1	L2	Result
	Office	NL.	LI	<u>-£</u>	rasuit
Other (ORP)			T		
рН	No unit	0.05	10	9	7.00
Mercury (total)	mg/L	0.00001	0.01	0.0004	< 0.00001
DAG//ACE GAMENIA DOD (**********************************				comple Number	8
PACKAGE: SANSEW - PCBs (WATER)				sample Number	
				Sample Name	BH21-2
L1 = SANSEW / WATER / Peel Table 1 - Sanitary Sewer Disch	harge - BL_53_2010			Sample Matrix	Ground Water
L2 = SANSEW / WATER / Peel Table 2 - Storm Sewer Dischar	irge - BL_53_2010			Sample Date	01/09/2021
Parameter	Units	RL	L1	L2	Result
PCBs					
Polychlorinated Biphenyls (PCBs) - Total	mg/L	0.0001	0.001	0.0004	< 0.0001
			_	I . M I	0
PACKAGE: SANSEW - Phenols (WATER	R)			ample Number	8
				Sample Name	BH21-2
L1 = SANSEW / WATER / Peel Table 1 - Sanitary Sewer Disch	harge - BL_53_2010			Sample Matrix	Ground Water
L2 = SANSEW / WATER / Peel Table 2 - Storm Sewer Dischar	rge - BL_53_2010			Sample Date	01/09/2021
Parameter	Units	RL	L1	L2	Result
Phenois					
4AAP-Phenolics	mg/L	0.002	1	0.008	< 0.002
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					
PACKAGE: SANSEW - SVOCs (WATER))		s	ample Number	8
				Sample Name	BH21-2
L1 = SANSEW / WATER / Peel Table 1 - Sanitary Sewer Disch	harge - BL 53 2010			Sample Matrix	Ground Water
L2 = SANSEW / WATER / Peel Table 2 - Storm Sewer Dischar				Sample Date	01/09/2021
Parameter	Units	RL	L1	L2	Result



CA14855-SEP21 R1

Client: DS Consultants

Project: 21-090-100, 128 Lakeshore Rd E

Project Manager: Meysam Jafari

Samplers: Harminder Sahota

DACKACE CANCEN OVOC (MATER)			Ça.	mple Number	8
PACKAGE: SANSEW - SVOCs (WATER)				•	
				Sample Name	BH21-2
L1 = SANSEW / WATER / Peel Table 1 - Sanitary Sewer Discha	arge - BL_53_2010			Sample Matrix	Ground Water
L2 = SANSEW / WATER / Peel Table 2 - Storm Sewer Discharg	ge - BL_53_2010			Sample Date	01/09/2021
Parameter	Units	RL	L1	L2	Result
SVOCs					
di-n-Butyl Phthalate	mg/L	0.002	0.08	0.015	< 0.002
Bis(2-ethylhexyl)phthalate	mg/L	0.002	0.012	0.0088	< 0.002
				'	
PACKAGE: SANSEW - VOCs (WATER)			Sa	mple Number	8
			8	Sample Name	BH21-2
SANSEW / WATER / Peel Table 1 - Sanitary Sewer Discharge - BL_53_2010 Sample Mate		Sample Matrix	Ground Water		
L2 = SANSEW / WATER / Peel Table 2 - Storm Sewer Discharg	ge - BL_53_2010			Sample Date	01/09/2021
Parameter	Units	RL	L1	L2	Result
Parameter VOCs	Units	RL	L1	L2	Result
VOCs		RL 0.0005			Result < 0.0005
VOCs Chloroform	mg/L	0.0005	0.04	0.002	
Chloroform 1,2-Dichlorobenzene	mg/L mg/L	0.0005 0.0005	0.04	0.002 0.0056	< 0.0005 < 0.0005
Chloroform 1,2-Dichlorobenzene 1,4-Dichlorobenzene	mg/L mg/L mg/L	0.0005 0.0005 0.0005	0.04 0.05 0.08	0.002 0.0056 0.0068	< 0.0005 < 0.0005 < 0.0005
Chloroform 1,2-Dichlorobenzene 1,4-Dichlorobenzene cis-1,2-Dichloroethene	mg/L mg/L mg/L mg/L	0.0005 0.0005 0.0005 0.0005	0.04 0.05 0.08 4	0.002 0.0056 0.0068 0.0056	< 0.0005 < 0.0005 < 0.0005 < 0.0005
Chloroform 1,2-Dichlorobenzene 1,4-Dichlorobenzene cis-1,2-Dichloroethene trans-1,3-Dichloropropene	mg/L mg/L mg/L mg/L	0.0005 0.0005 0.0005 0.0005 0.0005	0.04 0.05 0.08 4 0.14	0.002 0.0056 0.0068 0.0056	< 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005
Chloroform 1,2-Dichlorobenzene 1,4-Dichlorobenzene cis-1,2-Dichloroethene trans-1,3-Dichloropropene Methylene Chloride	mg/L mg/L mg/L mg/L mg/L	0.0005 0.0005 0.0005 0.0005 0.0005	0.04 0.05 0.08 4 0.14 2	0.002 0.0056 0.0068 0.0056 0.0056	< 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005
Chloroform 1,2-Dichlorobenzene 1,4-Dichlorobenzene cis-1,2-Dichloroethene trans-1,3-Dichloropropene Methylene Chloride 1,1,2,2-Tetrachloroethane	mg/L mg/L mg/L mg/L	0.0005 0.0005 0.0005 0.0005 0.0005 0.0005	0.04 0.05 0.08 4 0.14	0.002 0.0056 0.0068 0.0056	< 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005
Chloroform 1,2-Dichlorobenzene 1,4-Dichlorobenzene cis-1,2-Dichloroethene trans-1,3-Dichloropropene Methylene Chloride	mg/L mg/L mg/L mg/L mg/L	0.0005 0.0005 0.0005 0.0005 0.0005	0.04 0.05 0.08 4 0.14 2	0.002 0.0056 0.0068 0.0056 0.0056	< 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005
Chloroform 1,2-Dichlorobenzene 1,4-Dichlorobenzene cis-1,2-Dichloroethene trans-1,3-Dichloropropene Methylene Chloride 1,1,2,2-Tetrachloroethane	mg/L mg/L mg/L mg/L mg/L mg/L mg/L	0.0005 0.0005 0.0005 0.0005 0.0005 0.0005	0.04 0.05 0.08 4 0.14 2	0.002 0.0056 0.0068 0.0056 0.0056	< 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005
Chloroform 1,2-Dichlorobenzene 1,4-Dichlorobenzene cis-1,2-Dichloroethene trans-1,3-Dichloropropene Methylene Chloride 1,1,2,2-Tetrachloroethane Methyl ethyl ketone	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005	0.04 0.05 0.08 4 0.14 2 1.4	0.002 0.0056 0.0068 0.0056 0.0056	< 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005



o-xylene

mg/L

0.0005

FINAL REPORT

CA14855-SEP21 R1

Client: DS Consultants

Project: 21-090-100, 128 Lakeshore Rd E

Project Manager: Meysam Jafari

Samplers: Harminder Sahota

PACKAGE: SANSEW - VOCs - E	BTEX (WATER)		Sai	mple Number	8
			s	Sample Name	BH21-2
L1 = SANSEW / WATER / Peel Table 1 - Sanitar	ry Sewer Discharge - BL_53_2010		S	ample Matrix	Ground Water
L2 = SANSEW / WATER / Peel Table 2 - Storm S	Sewer Discharge - BL_53_2010			Sample Date	01/09/2021
Parameter	Units	RL	L1	L2	Result
VOCs - BTEX					
Benzene	mg/L	0.0005	0.01	0.002	< 0.0005
Ethylbenzene	mg/L	0.0005	0.16	0.002	< 0.0005
Toluene	mg/L	0.0005	0.27	0.002	< 0.0005
Xylene (total)	mg/L	0.0005	1.4	0.0044	< 0.0005
m-p-xylene	mg/L	0.0005			< 0.0005

< 0.0005



EXCEEDANCE SUMMARY

SANSEW / WATER SANSEW / WATER / - - Peel Table 2 -/ - - Peel Table 1 -Sanitary Sewer Storm Sewer Discharge -Discharge -BL_53_2010 BL_53_2010 Method Units L1 L2 Parameter Result

BH21-2

Total Suspended Solids	SM 2540D	mg/L	233
Manganese	SM 3030/EPA 200.8	mg/L	0.501
Total Kjeldahl Nitrogen	SM 4500-N C/4500-NO3- F	mg/L	3.4

15 0.05 1

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QC SUMMARY

Anions by discrete analyzer

Method: US EPA 375.4 | Internal ref.: ME-CA-[ENV]EWL-LAK-AN-026

Parameter	QC batch	Units	RL	Method	Duj	plicate	LC	S/Spike Blank		Matrix Spike / Ref.		
	Reference			Blank	RPD	AC	Spike		Recovery Limits (%)		Recover	-
						(%)	Recovery (%)	Low	High	(%)	Low	High
Sulphate	DIO5006-SEP21	mg/L	2	<2	ND	20	107	80	120	106	75	125

Biochemical Oxygen Demand

Method: SM 5210 | Internal ref.: ME-CA-IENVIEWL-LAK-AN-007

Parameter	QC batch	Units	RL	Method	Dup	olicate	LC	S/Spike Blank		Matrix Spike / Ref.		
	Reference			Blank	RPD	AC (%)	Spike	Recovery Limits (%)	Spike Recovery	Recove	ry Limits %)	
						(%)	Recovery (%)	Low	High	(%)	Low	High
Biochemical Oxygen Demand (BOD5)	BOD0002-SEP21	mg/L	2	< 2	12	30	107	70	130	86	70	130

Cyanide by SFA

Method: SM 4500 | Internal ref.: ME-CA-[ENVISFA-LAK-AN-005

Parameter	QC batch	Units RL Method Duplicate				LC	S/Spike Blank		Matrix Spike / Ref.			
	Reference			Blank	RPD	AC	Spike	Recovery Limits (%)		Spike Recovery	Recove	ry Limits 6)
						(%)	Recovery (%)	Low	High	(%)	Low	High
Cyanide (total)	SKA0056-SEP21	mg/L	0.01	<0.01	ND	10	91	90	110	NV	75	125

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QC SUMMARY

Fluoride by Specific Ion Electrode

Method: SM 4500 | Internal ref.: ME-CA-[ENV]EWL-LAK-AN-014

Parameter	QC batch	Units	RL	Method	Duj	plicate	LC	S/Spike Blank		Matrix Spike / Ref.		
	Reference			Blank	RPD	AC	Spike	Recovery Limits (%)		Spike Recovery	Recover	ry Limits 6)
						(%)	Recovery (%)	Low	High	(%)	Low	High
Fluoride	EWL0039-SEP21	mg/L	0.06	<0.06	ND	10	100	90	110	88	75	125

Mercury by CVAAS

Method: EPA 7471A/SM 3112B | Internal ref.: ME-CA-IENVISPE-LAK-AN-004

Parameter	QC batch	Units	RL	RL Method Duplicate		LC	LCS/Spike Blank			Matrix Spike / Ref.		
	Reference			Blank	RPD	AC (W)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery	Recove	ry Limits %)
						(%)		Low	High	(%)	Low	High
Mercury (total)	EHG0003-SEP21	mg/L	0.00001	< 0.00001	0	20	109	80	120	116	70	130

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QC SUMMARY

Metals in aqueous samples - ICP-MS

Method: SM 3030/EPA 200.8 | Internal ref.: ME-CA-[ENVISPE-LAK-AN-006

Parameter	QC batch	Units	RL	Method	Dup	licate	LC	S/Spike Blank		Ma	atrix Spike / Re	ł.
	Reference			Blank	RPD	AC (%)	Spike Recovery		ry Limits %)	Spike Recovery		ery Limits %)
						(75)	(%)	Low	High	(%)	Low	High
Silver (total)	EMS0019-SEP21	mg/L	0.00005	<0.00005	ND	20	99	90	110	101	70	130
Aluminum (total)	EMS0019-SEP21	mg/L	0.001	<0.001	16	20	91	90	110	120	70	130
Arsenic (total)	EMS0019-SEP21	mg/L	0.0002	<0.0002	17	20	98	90	110	106	70	130
Cadmium (total)	EMS0019-SEP21	mg/L	0.000003	<0.000003	ND	20	99	90	110	98	70	130
Cobalt (total)	EMS0019-SEP21	mg/L	0.000004	<0.000004	18	20	97	90	110	104	70	130
Chromium (total)	EMS0019-SEP21	mg/L	0.00008	<0.00008	16	20	93	90	110	99	70	130
Copper (total)	EMS0019-SEP21	mg/L	0.0002	<0.0002	19	20	94	90	110	102	70	130
Manganese (total)	EMS0019-SEP21	mg/L	0.00001	<0.00001	5	20	94	90	110	99	70	130
Molybdenum (total)	EMS0019-SEP21	mg/L	0.00004	<0.00004	8	20	93	90	110	102	70	130
Nickel (total)	EMS0019-SEP21	mg/L	0.0001	<0.0001	14	20	95	90	110	100	70	130
Lead (total)	EMS0019-SEP21	mg/L	0.00009	<0.00001	11	20	104	90	110	108	70	130
Phosphorus (total)	EMS0019-SEP21	mg/L	0.003	<0.003	5	20	103	90	110	NV	70	130
Antimony (total)	EMS0019-SEP21	mg/L	0.0009	<0.0009	ND	20	104	90	110	99	70	130
Selenium (total)	EMS0019-SEP21	mg/L	0.00004	<0.00004	7	20	94	90	110	99	70	130
Tin (total)	EMS0019-SEP21	mg/L	0.00006	<0.00006	12	20	96	90	110	NV	70	130
Titanium (total)	EMS0019-SEP21	mg/L	0.00005	<0.00005	14	20	97	90	110	NV	70	130
Zinc (total)	EMS0019-SEP21	mg/L	0.002	<0.002	10	20	92	90	110	104	70	130

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QC SUMMARY

Microbiology

Method: SM 9222D | Internal ref.: ME-CA-[ENV]MIC-LAK-AN-006

Parameter	QC batch	Units	RL	Method	Dup	licate	LC	S/Spike Blank		M	atrix Spike / Re	f.
	Reference			Blank	RPD	AC	Spike	Recove	•	Spike Recovery		ry Limits %)
						(%)	Recovery (%)	Low	High	(%)	Low	High
E. Coli	BAC9038-SEP21	cfu/100mL	-	ACCEPTED	ACCEPTE							
					D							

Nonylphenol and Ethoxylates

Method: ASTM D7065-06 | Internal ref.: ME-CA-IENVIGC-LAK-AN-015

Parameter	QC batch	Units	RL	Method	Dup	licate	LC	S/Spike Blank		Ma	atrix Spike / Ref	
	Reference			Blank	RPD	AC	Spike	Recover	-	Spike Recovery		ry Limits 6)
						(%)	Recovery (%)	Low	High	(%)	Low	High
Nonylphenol diethoxylate	GCM0080-SEP21	mg/L	0.01	<0.01			92	55	120			
Nonylphenol Ethoxylates	GCM0080-SEP21	mg/L	0.01	0								
Nonylphenol monoethoxylate	GCM0080-SEP21	mg/L	0.01	<0.01			91	55	120			
Nonylphenol	GCM0080-SEP21	mg/L	0.001	<0.001			89	55	120			

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QC SUMMARY

Oil & Grease

Method: MOE E3401 | Internal ref.: ME-CA-[ENV]GC-LAK-AN-019

Parameter	QC batch	Units	RL	Method	Duj	plicate	LC	S/Spike Blank		М	atrix Spike / Ref	
	Reference		Bla	Blank	RPD	AC	Spike		ery Limits %)	Spike Recovery	Recover	-
						(%)	Recovery (%)	Low	High	(%)	Low	High
Oil & Grease (total)	GCM0132-SEP21	mg/L	2	<2	NSS	20	98	75	125			

Oil & Grease-AV/MS

Method: MOE E3401/SM 5520F | Internal ref.: ME-CA-IENVIGC-LAK-AN-019

Parameter	QC batch	Units	RL	Method	Dup	licate	LC	S/Spike Blank		М	atrix Spike / Re	f.
	Reference			Blank	RPD	AC	Spike	Recover	•	Spike Recovery		ery Limits %)
						(%)	Recovery (%)	Low	High	(%)	Low	High
Oil & Grease (animal/vegetable)	GCM0132-SEP21	mg/L	4	< 4	NSS	20	NA	70	130			
Oil & Grease (mineral/synthetic)	GCM0132-SEP21	mg/L	4	< 4	NSS	20	NA	70	130			

pН

Method: SM 4500 | Internal ref.: ME-CA-[ENV]EWL-LAK-AN-006

Parameter	QC batch	Units	RL	Method	Dup	olicate	LC	S/Spike Blank		М	atrix Spike / Ref	
	Reference			Blank	RPD	AC	Spike	Recove	ry Limits %)	Spike Recovery	Recover	-
						(%)	Recovery (%)	Low	High	(%)	Low	High
рН	EWL0035-SEP21	No unit	0.05	NA	1		100			NA		

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QC SUMMARY

Phenols by SFA

Method: SM 5530B-D | Internal ref.: ME-CA-[ENV]SFA-LAK-AN-006

Parameter	QC batch	Units	RL	Method	Duj	plicate	LC	S/Spike Blank		M	latrix Spike / Ref	
	Reference		Bi	Blank	RPD	AC	Spike		ry Limits %)	Spike Recovery	Recover	ry Limits %)
						(%)	Recovery (%)	Low	High	(%)	Low	High
4AAP-Phenolics	SKA0027-SEP21	mg/L	0.002	<0.002	ND	10	105	80	120	103	75	125

Polychlorinated Biphenyls

Method: MOE E3400/EPA 8082A | Internal ref.: ME-CA-[ENVIGC-LAK-AN-001

Parameter	QC batch	Units	RL	Method	Duj	plicate	LC	S/Spike Blank		M	atrix Spike / Re	f.
	Reference			Blank	RPD	AC	Spike	Recove	ry Limits %)	Spike Recovery		ery Limits %)
						(%)	Recovery (%)	Low	High	(%)	Low	High
Polychlorinated Biphenyls (PCBs) -	GCM0106-SEP21	mg/L	0.0001	<0.0001	NSS	30	105	60	140	NSS	60	140
Total												

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QC SUMMARY

Semi-Volatile Organics

Method: EPA 3510C/8270D | Internal ref.: ME-CA-[ENV]GC-LAK-AN-005

Parameter	QC batch	Units	RL	Method	Dup	olicate	LC	S/Spike Blank		N	latrix Spike / Re	f.
	Reference			Blank	RPD	AC	Spike	Recove	•	Spike Recovery		ory Limits %)
						(%)	Recovery (%)	Low	High	(%)	Low	High
Bis(2-ethylhexyl)phthalate	GCM0070-SEP21	mg/L	0.002	< 0.002	NSS	30	136	50	140	NSS	50	140
di-n-Butyl Phthalate	GCM0070-SEP21	mg/L	0.002	< 0.002	NSS	30	140	50	140	NSS	50	140

Suspended Solids

Method: SM 2540D | Internal ref.: ME-CA-[ENV]EWL-LAK-AN-004

Parameter	QC batch	Units	RL	Method	Duj	plicate	LC	S/Spike Blank		M	atrix Spike / Ref	:
	Reference			Blank	RPD	AC	Spike		ery Limits %)	Spike Recovery	Recover	ry Limits 6)
						(%)	Recovery (%)	Low	High	(%)	Low	High
Total Suspended Solids	EWL0051-SEP21	mg/L	2	< 2	0	10	96	90	110	NA		

Total Nitrogen

Method: SM 4500-N C/4500-NO3- F | Internal ref.: ME-CA-IENVISFA-LAK-AN-002

Parameter	QC batch	Units	RL	Method	Duj	plicate	LC	S/Spike Blank		М	atrix Spike / Re	of.
	Reference			Blank	RPD	AC	Spike		ery Limits %)	Spike Recovery		ery Limits
						(%)	Recovery (%)	Low	High	(%)	Low	High
Total Kjeldahl Nitrogen	SKA0044-SEP21	as N mg/L	0.5	<0.5	ND	10	95	90	110	77	75	125

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QC SUMMARY

Volatile Organics

Method: EPA 5030B/8260C | Internal ref.: ME-CA-[ENVIGC-LAK-AN-004

Parameter	QC batch	Units	RL	Method	Dup	licate	LC	S/Spike Blank		Ма	atrix Spike / Ref	F.
	Reference			Blank	RPD	AC (%)	Spike Recovery		ry Limits %)	Spike Recovery		ry Limits %)
						(75)	(%)	Low	High	(%)	Low	High
1,1,2,2-Tetrachloroethane	GCM0076-SEP21	mg/L	0.0005	<0.0005	ND	30	86	60	130	88	50	140
1,2-Dichlorobenzene	GCM0076-SEP21	mg/L	0.0005	<0.0005	ND	30	82	60	130	80	50	140
1,4-Dichlorobenzene	GCM0076-SEP21	mg/L	0.0005	<0.0005	ND	30	82	60	130	80	50	140
Benzene	GCM0076-SEP21	mg/L	0.0005	<0.0005	ND	30	87	60	130	83	50	140
Chloroform	GCM0076-SEP21	mg/L	0.0005	<0.0005	ND	30	83	60	130	81	50	140
cis-1,2-Dichloroethene	GCM0076-SEP21	mg/L	0.0005	<0.0005	ND	30	83	60	130	81	50	140
Ethylbenzene	GCM0076-SEP21	mg/L	0.0005	<0.0005	ND	30	84	60	130	81	50	140
m-p-xylene	GCM0076-SEP21	mg/L	0.0005	<0.0005	ND	30	85	60	130	84	50	140
Methyl ethyl ketone	GCM0076-SEP21	mg/L	0.02	<0.02	ND	30	91	50	140	94	50	140
Methylene Chloride	GCM0076-SEP21	mg/L	0.0005	<0.0005	ND	30	89	60	130	81	50	140
o-xylene	GCM0076-SEP21	mg/L	0.0005	<0.0005	ND	30	83	60	130	81	50	140
Styrene	GCM0076-SEP21	mg/L	0.0005	<0.0005	ND	30	85	60	130	82	50	140
Tetrachloroethylene	GCM0076-SEP21	mg/L	0.0005	<0.0005	ND	30	87	60	130	84	50	140
(perchloroethylene)												
Toluene	GCM0076-SEP21	mg/L	0.0005	<0.0005	ND	30	85	60	130	81	50	140
trans-1,3-Dichloropropene	GCM0076-SEP21	mg/L	0.0005	<0.0005	ND	30	84	60	130	81	50	140
Trichloroethylene	GCM0076-SEP21	mg/L	0.0005	<0.0005	ND	30	85	60	130	81	50	140

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QC SUMMARY

Method Blank: a blank matrix that is carried through the entire analytical procedure. Used to assess laboratory contamination.

Duplicate: Paired analysis of a separate portion of the same sample that is carried through the entire analytical procedure. Used to evaluate measurement precision.

LCS/Spike Blank: Laboratory control sample or spike blank refer to a blank matrix to which a known amount of analyte has been added. Used to evaluate analyte recovery and laboratory accuracy without sample matrix effects.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate laboratory accuracy with sample matrix effects.

Reference Material: a material or substance matrix matched to the samples that contains a known amount of the analyte of interest. A reference material may be used in place of a matrix spike.

RL: Reporting limit

RPD: Relative percent difference

AC: Acceptance criteria

Multielement Scan Qualifier: as the number of analytes in a scan increases, so does the chance of a limit exceedance by random chance as opposed to a real method problem. Thus, in multielement scans, for the LCS and matrix spike, up to 10% of the analytes may exceed the quoted limits by up to 10% absolute and the spike is considered acceptable.

Duplicate Qualifier: for duplicates as the measured result approaches the RL, the uncertainty associated with the value increases dramatically, thus duplicate acceptance limits apply only where the average of the two duplicates is greater than five times the RL. **Matrix Spike Qualifier**: for matrix spikes, as the concentration of the native analyte increases, the uncertainty of the matrix spike recovery increases. Thus, the matrix spike acceptance limits apply only when the concentration of the matrix spike is greater than or equal to the concentration of the native analyte.

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LEGEND

FOOTNOTES

NSS Insufficient sample for analysis.

RL Reporting Limit.

- † Reporting limit raised.
- ↓ Reporting limit lowered.
- NA The sample was not analysed for this analyte
- ND Non Detect

Samples analysed as received. Solid samples expressed on a dry weight basis. "Temperature Upon Receipt" is representative of the whole shipment and may not reflect the temperature of individual samples.

Analysis conducted on samples submitted pursuant to or as part of Reg. 153/04, are in accordance to the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act" published by the Ministry and dated March 9, 2004 as amended.

SGS provides criteria information (such as regulatory or guideline limits and summary of limit exceedances) as a service. Every attempt is made to ensure the criteria information in this report is accurate and current, however, it is not guaranteed. Comparison to the most current criteria is the responsibility of the client and SGS assumes no responsibility for the accuracy of the criteria levels indicated. This document is issued, on the Client's behalf, by the Company under its General Conditions of Service available on request and accessible at http://www.sgs.com/terms_and_conditions.htm. The Client's attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any other holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents.

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-- End of Analytical Report --

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No:026486 Page

Request for the property Services of the Safety - Lakefield: 185 Concession St., Lakefield and KOL 2HO Phone. 105-552-2000 Fav. Times F. C. STODY

Mon-filtered Sappl |: | HMM | Add | Signature: | | Jet MM| | Signature: | Head Mile Copy - SGS | Sociomed general that you have been provided direction on sample collection/handling and transportation of samples to SGS is considered authorization for completion of work. Signatures may appear on this form or be retained on file in the contract, or in an alternative format (e.g., shipping documents). (3) Results may be sent by email to an unlimited number of addresses for no additional cost. Fax is available upon request. This document is issued by the Company under its General Conditions of Service accessible at http://www.sgs.com/terms_and_conditions.htm. (Printed copies are available upon request.) Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. LABLINS# CA14855-SEPTA *NOTE: DRINKING (POTABLE) WATER SAMPLES FOR HUMAN CONSUMPTION MUST BE SUBMITTED COMMENTS TAT's are quoted in business days (exclude statutory holidays & weekends). Samples received after 6pm or on weekends: TAT begins next business day Pink Copy - Client 1 akeshore WITH SGS DRINKING WATER CHAIN OF CUSTODY SPLP TCLP Dvoc - IMBI Characterization Pkg Specify tests (mm/dd/yy) Site Location/ID: \28 Water Specify pkg: 1 Day 2 Days 3 Days 4 Days Other (please specify) PLEASE CONFIRM RUSH FEASIBILITY WITH SGS REPRESENTATIVE PRIOR TO SUBMISSION Sewer Use: TURNAROUND TIME (TAT) REQUIRED P.O. #: 10160 ANALYSIS REQUESTED Peel Storme Sanitary Date: 09 Pesticides Date: **BTEX** only 00X VOCS Cooling Agent Present: Yes Dolo Ty F1-F4 only PHC Laboratory Information Section - Lab use only F1-F4 + BTEX RUSH TAT (Additional Charges May Apply): PCB 091-060 Aroclor ☐ lstoT **b**CB² SVOCS all incl PAHs, ABNs, CPs SVOC Regular TAT (5-7days) ylno sHA9 Sb, As, Ba, Be, B, Cd, Cr, Co, Cu, Pb, Mo, Ni, ICP Metals only Project #: 2 \ -Full Metals Suite Specify Due Date: š N Metals & Inorganics incl CtVI, CN, Hg PH,(B(HWS),EC,SAR-soil) (Cl, Na-waler) Quotation #: Field Filtered (Y/N) Custody Seal Present: Yes No Email:Meycan, ja (chi@dscansutantemail:) accounting@dscamsutions Sewer By-Law: MATRIX 35 Sanitary Storm Municipality: SAMPLED BOTTLES Signature: INVOICE INFORMATION Received By (signature): # OF ODWS Not Reportable *See note (same as Report Information) Reg 347/558 (3 Day min TAT) SA MMER Other: Other Regulations: Sept 21 SAMPLED PWQO CCME YES MISA Sahola **Company**: REGULATIONS Address: Contact: Phone: ON DON (mm/dd/yy) RECORD OF SITE CONDITION (RSC) p47 Medium/Fine O.Reg 406/19 My 7, Unit 16 Coarse Soil Texture: 6 W (minimum) >350m3 Company: DS CONSULL CLARS aminale Observations/Comments/Special Instructions Sontact: Mey Sam July Phone: 647 831 5596 SAMPLE IDENTIFICATION REPORT INFORMATION Agri/Other Res/Park Res/Park Appx <350m3 117 Relinquished by (NAME): Sampled By (NAME): O.Reg 153/04 Received Date: S Address: 6221 Vaughn ite of Issue: 11 June 2021 Soil Volume Received Time: Received By: Table 1 Table 3 Table 9 10 11 က 4 2 9 œ 7

Appendix D: MECP Water Wells Records

DS Consultants Ltd. October 2021

	Preliminary Hydrogeological Investigation- Proposed Residential Building - 128 Lakeshore Road East, Mississauga, Ontario												
TOWNSHIP C	UTM	E	N	DATE CNTR	CASING	WATER	UMP TESV	WELL USE	SCREEN	WELL	1	FORMATION	
MISSISSAUGA CITY	17 W	614426	4823445	2016/06 7230						7267968	(C33944) A203341 P		
					1.25		1	ИΤ	0006 5	7148420	(Z116136)	BRWN SAND 0008 BRWN SILT SAND 0011	
MISSISSAUGA CITY	1 / VV	614445	4823301	2010/06 7241	1.25		IV	/11	00065	7148420	(Z114391)	BRWN SAND LOOS 0008 GREY SILT	
MISSISSAUGA CITY	17 W	614446	4823232	2010/06 7241	1.5		M	ИΤ	0005 10	7148419	A099909	SAND LOOS 0015	
MISSISSAUGA CITY	17 W	614443	4823200	2010/06 7241	1.5		l M	ИΤ	0005 10	7148418	(Z114392) A099972	BRWN SAND LOOS 0008 GREY SILT SAND 0015	
				,							(Z253454)		
MISSISSAUGA CITY	17 W	614621	4823583	2017/02 7241						7282791	A185650		
											(Z253456)		
MISSISSAUGA CITY	17 W	614610	4823575	2017/02 7241	1.25				00025	7282792	A185651	GREY CLAY SHLE WTHD 0005 0007	
											(Z81870)	BLCK FILL LOOS 0004 BRWN SAND SILT LOOS 0010 GREY SAND SILT WBRG	
MISSISSAUGA CITY	17 W	614601	4823210	2008/07 7241	1.5		M	40	0006 10	7109075	A073010	0016 CLAY	
												BLCK FILL LOOS 0004 BRWN SAND	
											(Z81860)	SILT LOOS 0010 GREY SAND SILT WBRG	
MISSISSAUGA CITY	17 W	614466	4823265	2008/07 7241	1.5		M	ИО	0006 10	7109074		0016 CLAY	
											(Z70743)		
MISSISSAUGA CITY	17 W	614444	4823579	2008/04 7082						7104773	A057183 A		
MISSISSAUGA CITY	17 W	614459	1022157	2010/06 7241	1.5			ИΤ	0005 10	7148417	(Z116139)	BRWN SAND 0008 BRWN SILT SAND 0015	
MISSISSAUGA CITT	1/ //	014437	4023137	2010/00 /241	1,0		IV	/1 I	0003 10	/14041/	(Z74027)	BRWN FILL GRVL SOFT 0007 BRWN	
MISSISSAUGA CITY	17 W	614363	4823171	2007/06 7241	1.5				0009 10	7046642		SAND SILT FSND 0011 GREY SILT SAND	
				,							(Z14488)	BRWN SAND GRVL 0001 BRWN SILT	
MISSISSAUGA CITY	17 W	614220	4823140	2004/06 6607	1.97	FR 0013			0015 5	4909501	A011790	SAND 0011 GREY SILT SAND 0011 0020	
											(Z248369)	BRWN SAND GRVL SILT 0003 BRWN	
MISSISSAUGA CITY	17 W	614703	4823692	2017/05 6607	2		M	/IO	0013 10	7290467	A224507	SILT TILL DNSE 0017 GREY SAND SILT	
											(Z151075)	BRWN SAND GRVL SOFT 0003 BRWN	
MISSISSAUGA CITY (17 W	614447	4823231	2012/05 7241	1.58		M	ИΤ	0005 10	7183549	A125621	SAND SILT SOFT 0010 GREY SILT FSND	
											(7150221)	BRWN SAND GRVL LOOS 0003 GREY	
MICCICCALICA CITY	1 77 147	(14210	4022026	2012 /00 7501	ا ا		₁	10	001710	7107652	(Z150321)	SILT CLAY DNSE 0020 GREY SILT CLAY	
MISSISSAUGA CITY (1 / VV	614310	4823026	2012/09 7501	2		ĮV	ИО	0017 10	7187652	(Z126423)	SAND 0027 BRWN CLAY SILT SOFT 0002 BRWN	
MISSISSAUGA CITY (17 147	614459	1022210	2010/12 7241	0.75			ИT	0008 10	7157716		SAND GRVL SOFT 0016 BRWN SAND	
MISSISSAUGA CITT (1/ //	017433	7023240	2010/12 /241	0.73		l lv	11	000010	/13//10	(Z126421)	BRWN SILT CLAY DNSE 0006 BRWN	
MISSISSAUGA CITY (17 W	614453	4823241	2010/12 7241	0.75		M	ИΤ	00048	7157717	,	SAND SILT 0012	
MISSISSAUGA CITY (17 147	614591	1822512	2011/03 6607						7162774	(M08457) A110337 P		
MISSISSAUGA CITY (1 / VV	014331	4043344	2011/03 000/					I	/102//4	W11033/ B		

				ī						1	•	
											(Z151073)	WHIT HARD 0001 BRWN SAND GRVL
MISSISSAUGA CITY (17 W	614424	4823252	2012/05 7241	1.36			MT	0002 2	7183814	A113461	SOFT 0003 GREY SILT FSND SOFT 0005
											(Z129084)	BRWN GRVL FILL LOOS 0005 BRWN
MISSISSAUGA CITY (17 W	614404	4823047	2011/04 7215	2			TH	0005 10	7162960	A103116	CLAY SAND SOFT 0015
												BRWN SAND GRVL SOFT 0003 BRWN
											(Z151074)	SILT SAND SOFT 0010 GREY SILT FSND
MISSISSAUGA CITY (17 W	614452	4823228	2012/05 7241	1.58			MT	0005 10	7183548	A125614	SOFT 0015
											(Z136784)	
MISSISSAUGA CITY (17 W	614187	4823150	2011/07 7241	2			MT	0010 10	7168029	A114323	
											(Z126422)	BRWN CLAY GRVL SOFT 0003 BRWN
MISSISSAUGA CITY (17 W	614451	4823250	2010/12 7241	1.25			MT	00064	7157715	A094139	SAND GRVL 0006
				,							(Z136783)	
MISSISSAUGA CITY (17 W	614176	4823129	2011/07 7241	2			MT	0010 10	7168028	A114329	
				,							(Z136782)	BRWN SILT SAND 0008 GREY SILT SAND
MISSISSAUGA CITY (17 W	614210	4823161	2011/07 7241	2			MT	0010 10	7168027	A114327	WBRG 0020
				- , -							(M08435)	
MISSISSAUGA CITY (17 W	614516	4823601	2011/02 6607						7161795	A100950 P	
											(Z29080)	
MISSISSAUGA CITY (17 W	614278	4823133	2005/06 7219	2		4///:	NU		4909856	A027048 A	
THEOLOGIC GIT GIT I		011270	1020100	2000,007225	_		-///	1		1707000	(Z26277)	BRWN SAND SILT GRVL 0002 BRWN
MISSISSAUGA CITY (17 W	614016	4823262	2005/03 1129	1.97				0016 10	4909743	A025747	SILT FSND 0012 GREY SILT CLAY SAND
THEOLOGIC GIT GIT I		011010	1020202	2000,00 1129	2.,,				001010	1707710	11020717	BRWN SILT SAND 0005 BRWN SAND
											(Z26278)	MSND 0010 GREY SILT SAND FGRD 0020
MISSISSAUGA CITY (17 W	614239	4823024	2005/04 1129	1.97				0010 10	4909772	A026654	GREY SAND MGRD 0022
MISSISSITUATION	17 **	011237	1023021	2003/011127	1.77				001010	1505772	(Z29075)	GRET SHITE FIGRE 0022
MISSISSAUGA CITY (17 W	614244	4823025	2005/06 7219	2			NU		4909851	A027050 A	
MISSISSITUATICITY	17 **	011211	1023023	2003/00/217				1110		1707031	(Z095900)	BLCK HARD 0000 BRWN SILT SAND
MISSISSAUGA CITY (17 1/1	614472	4823265	2009/09 6032				MO	0004 10	7133300	A083930	LOOS 0008 GREY SILT STNS DNSE 0015
MISSISSMOUN CITT	17 VV	014472	T023203	2007/07 0032				IVIO	000410	7133370	(Z29076)	ECCS COOK GIVET SIET STIVE DIVER COTS
MISSISSAUGA CITY (17 1/1	614270	4.92294.2	2005/05 7219	2		5///:	NU		4909855	A027058 A	
MISSISSMOUN CITT	17 VV	014270	TULL) TL	2003/03 7217			5///.	NO		4707033	(M07281)	BRWN SILT CLAY GRVL 0011 GREY SILT
MISSISSAUGA CITY (17 1/7	614504	1022602	2010/07 6607	2 00 2 00	ı		MO		7155591	` ′	CLAY GRVL 0019
MISSISSAUGA CITT	1 / //	014304	TU23003	2010/0/000/	2.00 2.00			1410	+	/133391	11100730	BRWN LOAM SAND SOFT 0001 BRWN
												SILT CLAY DRY 0005 GREY SAND SILT
											(Z67536)	MSND 0006 BRWN SILT CLAY STNS
MISSISSAUGA CITY (17 147	614170	402201F	2007/06 1129	1 07		///.			7051392		0009 GREY CLAY SAND SOFT 0019
MISSISSAUGA CITY	1 / VV	0141/9	4023013	2007/00 1129	1.97		///:		+	/031392	A033302	BRWN FILL 0004 BRWN TILL 0006
											(7156020)	
MICCICCATICA CITY	17 147	614450	4022227	2012/00 7241				MT	0005 10	7107002	(Z156839) A137098	BRWN SAND SILT 0008 GREY SILT SAND WBRG 0015
MISSISSAUGA CITY (T / VV	614458	404343/	2012/08 7241	2			IVI I	0005 10	/10/903	(M02487)	MDIA 0013
MICCICCATICA CITY	17 147	614206	4022065	2009/07/6/07		A		I _{MO}		7117262		DDWN EILL OOOF CDEV CLAY 0015
MISSISSAUGA CITY (T / VV	614306	4823065	2008/07 6607	2	4		MO		/11/362	A069693	BRWN FILL 0005 GREY CLAY 0015

	I			I			l	ı	<u> </u>	1		BRWN FILL 0004 BRWN TILL 0006
											(715(041)	
MICCICCALICA CITILI	4 5 141		4000005	2042/00 5244	2				000540	5405000	(Z156841)	BRWN SAND SILT 0008 GREY SILT SAND
MISSISSAUGA CITY (17 W	614455	4823285	2012/08 7241	2			MT	0005 10	7187902	A137099	WBRG 0015
NAME OF THE PARTY		64.4600	4000.600	2045/205445	4.05				0000 5		(Z246111)	
MISSISSAUGA CITY (17 W	614608	4823609	2017/03 7147	1.97	UT 0005			0003 5	7284531	A195287 A	
											(5.15.60.10)	BRWN FILL 0004 BRWN TILL 0006
				0010100 = 011				l			(Z156840)	BRWN SAND SILT 0008 GREY SILT SAND
MISSISSAUGA CITY (17 W	614453	4823240	2012/08 7241	2			MT	0005 10	7187901	A137100	WBRG 0015
				001-100-11-	=						(Z246110)	
MISSISSAUGA CITY (614610		2017/03 7147		UT 0000			0002 4		A185544 A	
MISSISSAUGA CITY (17 W	614609	4823589	2017/03 7147	1.97	UT 0005			00104	7284533	(Z246113) A	
	l										(Z246109)	
MISSISSAUGA CITY (17 W	614616	4823578	2017/03 7147	1.25	UT 0000			00025	7284534	A217251 A	
											(Z246108)	
MISSISSAUGA CITY (17 W	614619	4823587	2017/03 7147	1.25	UT 0000			0002 5	7284535	A217243 A	
												BRWN SAND FILL PCKD 0005 BRWN
											(Z248219)	SILT TILL DNSE 0010 GREY SILT TILL
MISSISSAUGA CITY (17 W	614168	4823817	2017/03 6607	2	UT 0019		MO	00205	7284674	A217853	DNSE 0019 GREY SAND LOOS 0025
											(C37174)	
MISSISSAUGA CITY (17 W	614654	4823635	2017/03 7464						7295291	A208405 P	
											(Z253455)	
MISSISSAUGA CITY (17 W	614616	4823581	2017/02 7241	1.25				0002 5	7282790	A217279	GREY CLAY SHLE WTHD 0005 0007
											(Z234258)	BRWN FILL LOOS 0003 BRWN SILT CLAY
MISSISSAUGA CITY (17 W	614695	4823639	2017/04 7464	2			MO	0010 10	7287213	A222349	PCKD 0010 GREY SILT CLAY PCKD 0020
											(Z230821)	
MISSISSAUGA CITY (17 W	614407	4823434	7230	5	UT 0005		TH	00033	7288429	A203341 A	
											(Z248368)	BRWN SAND GRVL SILT 0003 BRWN
MISSISSAUGA CITY (17 W	614716	4823737	2017/05 6607	2			MO	0013 10	7290466	A224506	SILT TILL DNSE 0017 GREY SAND SILT
											(Z248370)	BRWN SAND GRVL SILT 0003 BRWN
MISSISSAUGA CITY (17 W	614703	4823692	2017/05 6607	2			MO	0009 10	7290468	A224505	SILT TILL DNSE 0017 GREY SAND SILT
												BLCK GRVL DNSE 0001 BRWN
											(Z248389)	SAND LOOS 0002 BRWN SILT SAND
MISSISSAUGA CITY (17 W	614240	4823714	2017/05 6607	2			MO	0022 10	7290469	A224416	0008 GREY SAND SILT GRVL 0033
												BRWN SAND GRVL FILL 0002 BRWN
												SILT SAND DNSE 0011 GREY SILT CLAY
											(Z248282)	DNSE 0025 GREY CLAY SILT DNSE 0030
MISSISSAUGA CITY (17 W	614256	4823696	2017/05 6607	2		<u></u>	MO	0030 10	7290480	A209829	GREY SHLE LMSN LYRD 0039
												BRWN SAND GRVL FILL 0002 BRWN
											(Z248283)	SILT SAND DNSE 0008 GREY SILT CLAY
MISSISSAUGA CITY (17 W	614303	4823670	2017/05 6607	2			MO	0034 10	7290487	A224322	DNSE 0029 GREY SHLE LMSN LYRD

MISSISSAUGA CITY 17 W 61442 482319 2013/05 7472 2.04 M0 0030 10 721409 ABWAY SAND LOSS 0010 GREY SHLE LAS					1							
MISSISSAUGA CITY 17 W 614141 482355 2015/06 7147 1.97 UT 0012 M0 0032 10 7290488 1242419 CREY SILE ILAY DINSE 0030 MSSISSAUGA CITY 17 W 614141 482355 2015/06 7147 1.97 UT 0012 M0 0010 10 7243496 A175784 TILL 0020 BRWN 0011 BRWN SAND MSSISSAUGA CITY 17 W 614480 4823067 2012/08 7241 1.6 MT 0005 10 7189767 A131120 SILT SAND LOOS 0010 GREY SILT CLAY MSSISSAUGA CITY 17 W 614490 482317 2013/05 7472 2.04 M0 0030 10 7211007 A155432 CILAY MSD 0020 GREY SHLE MSSISSAUGA CITY 17 W 614470 482317 2013/05 7472 2.04 M0 0030 10 7211008 A155430 CILAY MSD 0020 GREY SHLE MSSISSAUGA CITY 17 W 614490 482301 2014/07 7241 2.04 M0 0030 10 7211009 A155430 CILAY HARD 0040 MSSISSAUGA CITY 17 W 614490 482301 2014/07 7241 2.04 MD 0030 10 7212009 A155430 CILAY HARD 0040 MSSISSAUGA CITY 17 W 614490 482301 2014/07 7241 2.04 MD 0005 5 727468 A209769 A (729228) MISSISSAUGA CITY 17 W 614588 4823145 2016/08 6607 2 UT M0 0005 5 727468 A209765 FILLS AND DISC 0000 GREY SHLE MSSISSAUGA CITY 17 W 614588 4823145 2016/08 6607 2 UT M0 0008 5 727468 A209766 FILLS AND DISC 0000 GREY SHLT CLAY HARD 0040 MISSISSAUGA CITY 17 W 614588 4823145 2016/08 6607 2 UT M0 0008 5 727468 A209766 FILLS AND DISC 0000 GREY SHLT CLAY HARD 0040 MISSISSAUGA CITY 17 W 614588 4823145 2016/08 6607 2 UT M0 0008 5 727468 A209766 FILLS AND DISC 0000 GREY SHLT CLAY HARD 0040 MISSISSAUGA CITY 17 W 614581 4823152 2016/08 6607 2 UT M0 0008 5 727468 A209766 FILLS AND DISC 0000 GREY SHLT CRAY DISC 000												BRWN SAND GRVL FILL 0003 BRWN
MISSISSAUGA CITY (17 W 614426 4823702 2017/05 6607 2 M MO 0032 10 7290388 4224419 (270313) GREY SILLE IMSILYED 0044 (270313) GREY SILLE IMSILYED 0044 (270313) GREY SILLE IMSILYED 0045 (270313) GREY SILLE IMSILY												
MISSISSAUGA CITY (17 W 614141 4823554 2015/06 7147 1.97 UT 0012 MO 0010 10 7243496 A175784 TILL 0020 BRWN SAND CRYLFILL 0022 BRWN SAND CRYLFILL 0023 BRWN SAND GRYLF CLAY SOFT 0015 GREY MISSISSAUGA CITY (17 W 61454 BR23145 2016/08 6607 2 UT MO 0008 5 7274686 A209766 BRWN SAND GRYLF CLAY SOFT 0015 GREY MISSISSAUGA CITY (17 W 61454 BR23145 2016/08 6607 2 UT MO 0008 5 7274686 A209766 BRWN SAND GRYLF CLAY SORT ON SAND GRYLF CLAY SOFT 0015 GREY CLAY SORT ON SAND GRYLF C		l				_		l			` ,	
MISSISSAUGA CITY (17 W 61448) 4823057 2012/08 7241 1.6 MT 0005 10 7243496 A175784 TILL 0020 BRWN SAND GRVL FILL 0002 BRWN SILT SAND LOOS 0010 GREY SILT CLAY 0005 10 7187967 A151120 (7179108) BRWN SAND GRVL FILL 0002 BRWN SILT SAND LOOS 0010 GREY SILT CLAY 10005 BRWN SILT SAND LOOS 0010 GREY SILT CLAY 10005 BRWN SILT SAND LOOS 0010 GREY SILT CLAY 10005 BRWN SILT SAND LOOS 0010 GREY SILT CLAY 10005 BRWN SILT SAND LOOS 0010 GREY SILT CLAY 10005 BRWN SILT SAND LOOS 0010 GREY SILT CLAY 10005 BRWN SILT SAND LOOS 0010 GREY SILT CLAY 10005 BRWN SILT SAND LOOS 0010 GREY SILT CLAY 10005 BRWN SILT SAND LOOS 0010 GREY SILT CLAY 10005 BRWN SILT SAND LOOS 0010 GREY SILT CLAY 10005 BRWN SILT SAND LOOS 0010 GREY SILT CLAY 10005 BRWN SILT SAND LOOS 0010 GREY SILT CLAY 10005 BRWN SILT SAND LOOS 0010 GREY SILT CLAY 10005 BRWN SILT SAND BWS 0020 GREY SILT CLAY 10005 BRWN SILT SAND BWS 0020 GREY SILT CLAY 10005 BRWN SILT SAND BWS 0020 GREY SILT CLAY 10005 BRWN SILT SAND BWS 0020 GREY SILT CLAY 10005 BRWN SILT SAND BWS 0020 GREY SILT CLAY 10005 BRWN SILT SAND BWS 0020 GREY SILT CLAY 10005 BRWN SILT SAND BWS 0020 GREY SILT CLAY 10005 BRWN SILT SAND BWS 0020 GREY SILT GREY 10005 BRWN SILT SAND BWS 0020 GREY SIL	MISSISSAUGA CITY (17 W	614236	4823700	2017/05 6607	2		МО	0032 10	7290488		
MISSISSAUGA CITY (17 W 61448) 482312 2012/08 7241 1.6 MT 0005 10 7187967 A131120 SIRWN SAND GRV. FILL 0002 BRWN (2148598) SILT SAND LOSO 910 GREY SILT CLAY ASSISSAUGA CITY (17 W 61440 482321 2013/05 7472 2.04 M0 0030 10 7211007 A155432 CLAY HARD 0040 CLAY HARD									001010	-0.10.10.1	`	
MISSISSAUGA CITY (17 W 614480 4823067 2012/08 7221 1.6 MT 0005 10 7187667 Al31120 SOFT 0015 STRV FIND DNSE 0020 GREY SILT CLAY MISSISSAUGA CITY (17 W 614402 4823121 2013/05 7472 2.04 MO 0030 10 7211008 AL55432 CLAY HARD 0040 RISWINSTAND NSE 0020 GREY SHLE (179109) BRWN FIND DNSE 0020 GREY S	MISSISSAUGA CITY (17 W	614141	4823554	2015/06 /14/	1.97	UT 0012	MO	0010 10	7243496	A175784	
MISSISSAUGA CITY TW 014480 4823107 2012/08 7241 1.6 MT 0005 10 7187967 A131120 SOFT 0015 RRWN FSND DNSE 0020 GREY SHLE CLAY HARD 0040											(71.40500)	
MISSISSAUGA CITY 17 W	MICCICCALICACITY	17 147	(14400	4022067	2012/00 7241	1.0		MT	0005 10		`	
MISSISSAUGA CITY 17 W 614402 4823210 2013/05 7472 2.04 MO 0.030 10 7211007 A155432 CLAY HARD 0.040 (2179109) BRWN FSND DNSE 0.020 GREY SHLE CLAY HARD 0.040 (2179109) (2179	MISSISSAUGA CITY (1 / VV	014480	4823067	2012/08 / 241	1.0		IVI I	0005 10			
MISSISSAUGA CITY (17 W 614470	MICCICCALICA CITY	17 147	614402	4022210	2012/05 7472	2.04		MO	0020 10		`	
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