

Geotechnical Investigation Report

Proposed Agricultural Grain Milling Facility 3469 Concession Road 1

Uxbridge, Ontario

Report for Grainboys Holdings Inc.





Executive Summary

This report presents the results of a geotechnical investigation that was conducted in support of the a proposed Agricultural Grain Milling Facility being considered for a site situated along the east side of Concession Road 1 (also known as York-Durham Line), south of Highway No. 47 near the urban area of Lincolnville, Ontario. The property encompasses and area of approximately 36.3 ha (89.7 acres). The planned development will consist of a main building, numerous storage bins, concrete loading apron, paved access driveway and parking areas. The building will be a two-storey structure without basement, i.e. slab-on-grade foundation. Municipal Servicing is not available to the Site, as such, the development will be privately serviced with a new drilled water well and septic system. GHD Limited (GHD) was retained by Grainboys Holdings Inc. (the Client) to complete this geotechnical investigation which includes a hydrogeologic component. The study has included a site inspection, advancement of boreholes, soil sampling, water level monitoring, a well survey to compliment a review of available Ministry of the Environment, Conservation and Parks (MECP) well records, hydraulic conductivity testing and a water balance evaluation based upon design information.

In summary, the proposed development area is generally comprised of a surficial layer of topsoil underlain by silty sand/sandy silt or clayey silt glacial till. Occasionally, a layer of silty sand was observed between the surficial topsoil layer and the glacial till. A permanent shallow groundwater table was not observed. It is our professional opinion that there will not be significant constraints for the proposed development area from the seasonal variations of groundwater as the water can be handled with appropriate engineering techniques. It is expected that groundwater will generally be below the depth of the future development, although seepage may be encountered in deeper excavations for foundations or services. Seepage is expected to be seasonal in nature. If short-term pumping of groundwater at volumes greater than 50,000 L/day and less than 400,000L/day is required during the construction stage, the EASR must be completed. In summary, the proposed Agricultural Grain Milling Facility is suitable from both a hydrogeologic and geotechnical perspective.

There are minor impacts expected to groundwater and surface water as a result of the future development provided that appropriate planning (i.e. incorporation of LIDs as supported by the water balance calculations), mitigation measures and proper construction techniques are considered. From a geotechnical perspective, the Site is suitable for construction of the proposed development including one to two-storey commercial building, associated servicing and paved access and parking areas.



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1. Introduction

This report presents the results of a geotechnical investigation that was conducted in support of the a proposed Agricultural Grain Milling Facility being considered for a site situated along the east side of Concession Road 1 (also known as York-Durham Line), south of Highway No. 47 near the urban area of Lincolnville, Ontario. The property encompasses and area of approximately 36.3 ha (89.7 acres). The planned development will consist of a main building, numerous storage bins, concrete loading apron, paved access driveway and parking areas. The building will be a two-storey structure without a basement, i.e. stab-on-grade foundation. Municipal Servicing is not available to the Site, as such the development will be privately serviced with a new drilled water well and septic system. GHD Limited (GHD) was retained by Grainboys Holdings Inc. (the Client) to complete this geotechnical investigation which includes a hydrogeologic component.

The general location of the Site is illustrated on the Vicinity Plan, Figure 1. The location with respect to surrounding roads and land use is depicted on the Property Plan, Figure 2. Specific details of the Site and surrounding properties based on recent aerial photography is presented on the Plot Plan, Figure 3. A preliminary site plan (by Lassing Dibben Consulting Engineers Ltd. (Lassing Dibben)) depicting the proposed development is provided on the Concept Plan, Figure 4. The borehole locations are illustrated on the Test Hole Location Plans, Figures 5A and 5B. These plans and other figures can be reviewed in the Enclosures section.

2. Scope of Investigation

The purpose of the investigation was to define the prevailing hydrogeologic and geotechnical conditions at the Site. The hydrogeologic aspects of the study were completed to investigate the subsurface soil stratigraphy, groundwater movement, to assess groundwater supplies and evaluate potential impacts from the proposed development and related construction. The geotechnical investigation was conducted to provide recommendations relevant to earthwork construction, dewatering, foundation and slab on grade design, buried service installation and pavement structure. The following scope of work was performed to accomplish the foregoing purposes.

- 1. Reviewed available background information relevant to the Site such as geologic, physiographic and water resources reports and maps.
- Carried out an inventory of available well record data on file with the Ministry of the
 Environment, Conservation and Parks (MECP) for the immediate area to evaluate the
 physical characteristics of the aquifer complexes that underlie the region. A field survey of the
 general area was carried out to supplement the MECP data.
- 3. A walkover inspection was conducted to review surficial ground characteristics.



- 4. The subsurface conditions were explored by advancing, sampling and logging a total of fourteen (14) boreholes (six (6) of which were previously drilled as part of another investigation). The subsurface conditions were recorded and are summarized in detail in Appendix A. The boreholes were advanced to depths ranging from 3.5 to 6.6m. A monitoring well was installed in five (5) of the boreholes to facilitate water level measurements and further testing.
- 5. Falling and/or rising head (slug) tests were completed at two (2) monitoring well locations to evaluate hydraulic conductivity of the subsoils. The infiltration rate of the upper vadose zone was evaluated based on the soil type observed and in-situ testing.
- 6. Carried out laboratory analyses of materials encountered including grain size testing and moisture content determinations of representative soil samples.
- 7. Obtained a representative groundwater sample from two (2) of the monitoring wells that was submitted for chemical testing to determine background chemistry.
- 8. Completed a water balance that considers pre- and post-development conditions and evaluates groundwater baseflow conditions based on the current design.
- 9. Prepared a detailed report using engineering analyses of the acquired data outlining our conclusions and recommendations presented herein.

The boreholes were advanced using a track mounted drill rig equipped with continuous flight, solid stem power augers. Representative, disturbed samples of the strata penetrated were obtained using a split-barrel, 50mm outer-diameter (OD) sampler advanced by a 63.5 kg hammer dropping approximately 760 mm. The results of these standard penetration tests (SPT's) are reported as "N" values on the borehole logs at the corresponding depths. Samples were also obtained directly form augers cuttings.

Soil samples obtained from the test holes were inspected in the field immediately upon retrieval for type, texture, and colour. All test holes were backfilled following completion of the fieldwork. All samples were sealed in clean plastic containers and transported to the GHD laboratory for further visual-tactile examination, and to select appropriate samples for laboratory analysis.

3. Project Details

The preliminary conceptual plan is provided as Figure 4 (based on the Preliminary Site Layout provided by Lassing Dibben with electronic title "19-066 Site wContours.dwg"). Site statistics (also provided by Lassing Dibben) indicate that the overall area of the Site is 36.3 ha (89.7 acres). It is GHD's understanding that the proposed development will consist of a main building, numerous storage bins, concrete loading apron, paved access driveway and parking areas. The building will be a two-storey structure without basement, i.e. stab-on-grade foundation. Municipal Servicing is not available to the Site. As such, the development will be privately serviced with a new drilled water well and septic system. The target area of the tile bed for the septic system is illustrated on Figure 4.



4. Site Conditions

4.1 General

The field program consisted of a site inspection, soils investigation, hydraulic testing, and measurement of water levels in the monitoring wells. The boreholes were drilled on June 26 and August 26, 2019. Borehole records and physical test results of representative soil samples are presented in Appendix A. A site reconnaissance was conducted by GHD prior to the subsurface investigation to observe the general surficial characteristics of the Site. The ground surface across the Site is rolling and generally sloping towards the south/southeast. Local relief across the Site is on the order of 25 to 26m.

4.2 Subsurface

4.2.1 Regional Physiography and Geology

The Property is situated in the physiographic region known as the Oak Ridges Moraine (Chapman and Putnam, 1984). The Oak Ridges Moraine is generally hilly, with a knob-and-basin relief typical of an end moraine. Overburden consists of a calcareous sandy till, with some deposits of gravel. As illustrated on the Figure 7, the Site exists within a kame moraine with drumlinized till plains approximately 0.8km further to the south. The surficial geology (Figure 8) can be described as glaciolacustrine-derived silty to clayey till within the Site. Small areas of organics/foreshore—basinal deposits encroach isolated areas near the east end and south-central perimeters of the Site. The Ontario Geological Survey information (Figure 9) indicates that the Quaternary geology for the area is the Halton till which is described as predominantly silt to silty clay matrix, high in matrix carbonate content.

A review of available MECP well records identified six (6) well records on the Site (including two (2) records for observation wells and test holes) and an additional forty-five (45) well records within 500m (including five (5) abandonment records and three (3) records for monitoring wells and test holes). The well records indicate the presence of sand and clay with stones which is interpreted to be glacial till with occasional gravel and/or sand layers. The well records considered are provided and shown in Appendix B. Physical and hydraulic data are presented on some of the MECP well records. The water well information is discussed in Section 5.1. GHD confirms that none of the wells (as published by the MECP website) actually occur within the Site.

4.2.2 Local Geology

The subsurface stratigraphy was investigated by drilling fourteen (14) boreholes on June 26 and August 26, 2019. Monitoring wells were installed in five (5) of these boreholes to facilitate water level measurements and testing. The locations of the boreholes are illustrated on the Test Hole Location Plans, Figures 5A and 5B. Details of the subsurface conditions encountered are graphically presented in Appendix A. It should be noted that the boundaries between the strata have been inferred from the test hole observations and non-continuous samples. They generally represent a transition from one soil type to another, and should not be inferred to represent an exact plane of geological change. Further, conditions may vary between and beyond the test holes.



The soils encountered generally consisted of a surficial layer of topsoil underlain by silty sand/sandy silt till which graded into a clayey silt till at depth. Occasionally, a layer of silty sand/sandy silt was observed between the surficial topsoil layer and the glacial till. Isolated sand seams were encountered within the glacial till sporadically throughout the Site. A surficial layer of fill was encountered in boreholes BH-4 and BH-5. A surficial layer of topsoil was encountered in all boreholes with the exception of boreholes BH-4 and BH-5. Where encountered, the topsoil was observed to range from 200mm to 800mm in thickness. This soil was observed to be in a damp, loose state, with a silty, highly organic content. As such, it is expected to be devoid of any structural engineering properties.

A surficial layer of granular fill was observed in borehole BH-4 extending to 0.3m and was observed to be in a moist and compact in-situ state. An earth fill layer was observed at the surface in in borehole BH-5 and extended to approximately 2.3m. The earth fill generally consisted of silty sand, with gravel. The fill was observed to exist in a moist state with in-situ moisture contents that ranged from 11 to 17% by weight. SPT N values obtained from within the earth fill layers varied from 5 to 12 blows/300mm indicating a loose to compact in-situ state of relative density.

A layer of silty sand/sandy silt was observed below the topsoil in boreholes BH-105 and BH-106. Where penetrated, the silty sand was found to extend to about 1.5m. Moisture content tests conducted on samples of the silty sand yielded values ranging from approximately 4 to 12% moisture by weight indicating that it exists in a moist to wet state. SPT N values obtained from within the silty sand/sandy silt layer varied from 18 to 20 blows/300mm, indicating a compact in-situ state of relative density. A grain size distribution analyses conducted on a representative sample of the silty sand/sandy silt suggests the following composition: 2% gravel, 34% sand, and 64% silt and clay-sized particles (Unified Soil Classification System (USCS)).

Glacial till was encountered in all fourteen (14) boreholes. The till was brown to grey in color and generally consisted of sandy silt or clayey silt containing varying amounts gravel. Occasional cobbles were encountered in the till at some borehole locations. The till exists in a generally moist condition with moisture contents ranging from 4 to 25% moisture by weight. The consistency or density of the till is generally described as stiff to hard or loose to very dense based on SPT N values that ranged from 5 blows/300mm to over 100 blows/300mm. GHD notes that zones of loose till was observed in borehole BH-103 only (within the proposed new development) and it extended to approximately 4.6m depth at this location. Grain size distribution analyses conducted on five (5) representative samples of the till suggests the following compositional ranges: 0 to 8% gravel, 16 to 40% sand, and 53 to 84% silt and clay-sized particles (USCS). Hydrometer analyses conducted on three (3) of these samples suggest that the till contains 41 to 67% particles between 5 and 75 μ m in size.

A layer of sand was encountered at depths of 5.0 and 4.0 in boreholes BH-102 and BH-3, respectively. The sand layer extended to the full depth of the investigation in both of these boreholes. The sand layer was observed to be brown to grey in colour and existed in a generally wet condition with moisture contents ranging from 18 to 19% moisture by weight. SPT N values obtained from within the sand layer varied from 11 to 31 blows/300mm, indicating a compact to dense in-situ state of relative density.

A summary of the grain size data obtained from the various strata is presented in Table 4.1.



Table 4.1 Grain Size Distribution Summary

			Grain Size I			
Location	Depth (m)	% Crovel	%Sand	%Fines		Observed Soil Unit
		%Gravel	%Sanu	%Silt	%Clay	
BH-103, SS-6	3.8 - 4.3	6	38	41	15	Sandy Silt Till
BH-104, SS-2	0.8 - 1.4	0	31	53	16	Sandy Silt Till
BH-105, SS-2	0.8 - 1.4	2	34	6	4	Silty Sand/Sandy Silt
BH-107, SS3	1.5 - 2.0	0	16	67	17	Sandy Silt Till
BH-5, SS-3	1.5 - 2.0	3	40	57		Sandy Silt Fill
BH-6, SS-3	1.5 - 2.0	8	26	66		Sandy Silt Till

Notes: %Fines indicates silt and clay particles; grain size distribution based on Unified Soil Classification System.

4.2.3 Groundwater

Groundwater seepage and/or accumulation was observed in nine (9) of the boreholes at depths ranging from 1.7 to 5.3m during the drilling operations. Monitoring wells were installed in five (5) boreholes (BH-103, BH-107, BH-1, BH-3, and BH-4) in order to facilitate monitoring of groundwater levels. A summary of the monitoring well details is provided in Table 4.2.

Table 4.2 Summary of Monitoring Well Information

Location	Depth of Well (m)	Pipe Stick-Up (m)	Effective Well Screen Interval (m)	Water Seepage Depth (m)
BH-103	5.2	0.84	2.4 – 5.2	3.2
BH-107	6.1	0.93	2.4 - 6.1	
BH-1	4.6	0.90	3.0 - 4.6	
BH-3	4.6	1.00	3.0 - 4.6	4.0
BH-4	4.6	0.90	3.0 - 4.6	3.8

Groundwater potentiometric levels were measured on October 11, 2019 in the installed monitoring wells. The data has been plotted on Figure 6 and summarized in Table 4.3.

Table 4.3 Potentiometric Water Level Summary

Location	Ground Elevation (m)*	Water Level (m) October 11, 2019	GW Elevation (m) October 11, 2019
BH-103	320.0	1.7	318.3
BH-107	322.5	5.3	317.2
BH-1	329	Dry	Dry
BH-3	316	0.2	315.8
BH-4	321	2.1	318.9

Notes: m = metres; GW = groundwater; (*) Elevations interpreted from contours on Preliminary Site Layout provided by Lassing Dibben Consulting Engineers Ltd. entitled "19-066 Site wContours.dwg" where available or Google Earth. The elevations provided are for the purposes of evaluating groundwater elevation and flow direction and should not be relied upon as a legal survey or topographic elevation survey.



The potentiometric elevations range from 315.8 to 318.9m indicating a moderate horizontal gradient. Based on the water level data collected and the surrounding topography, the overall shallow groundwater flow direction is to the south. The direction of shallow groundwater movement is illustrated on the Groundwater Elevation plan, Figure 6. It is expected that groundwater seepage will be encountered intermittently at depths ranging from 2.3 to 5.2m (similar to what encountered during the subsurface explorations). It should be noted that groundwater levels are transient and tend to fluctuate with the seasons, periods of precipitation and temperature.

4.2.4 Water Quality

A groundwater sample was collected from the monitoring well installed in BH-103 and BH-107 for the purpose of determining background water quality. The certificate of chemical analysis is presented in Appendix D. The water quality data are summarized and compared with the Ontario Drinking Water Standards (ODWS) in Table 4.4.

Table 4.4 Water Quality Summary

	Monitor	ing Well	odws		
PARAMETER	BH-103	BH-107	MAC	IMAC	AO/OG
Alkalinity (as CaCO ₃)	239	244			30 to 500
Ammonia - Total	0.19	0.02			
Calcium	95.2	102			
Chloride	15.9	17.6			250
Colour (T.C.U.)	< 2	< 2			5
Conductivity (mS/cm)	542	607			-
Copper	< 0.002	< 0.002			1.0
Fluoride	< 0.1	< 0.1	1.5		
Hardness (as CaCO ₃)	315	349			80 to 100
Iron	< 0.005	0.047			0.3
Magnesium	18.8	22.9			
Manganese	0.076	0.125			0.05
Nitrite (N)	< 0.1	< 0.1	1.0		
Nitrate (N)	< 0.1	3.9	10		
pH (units)	8.07	8.06			6.5 to 8.5
Potassium	2.2	2.8			
Sodium	7.8	5.8			200
Sulphate	42	66			500
Turbidity (N.T.U.)	45.2	8.9	1		5
Zinc	0.011	< 0.005			5.0

Notes: All units in mg/L (i.e. parts per million) unless otherwise noted. MAC = maximum acceptable concentration (health related); IMAC = Interim MAC (insufficient data to establish MAC or not feasible to establish MAC to desired level); AO/OG = aesthetic objective or operational guideline (not health related). **Bolded value** exceeds ODWS.

The groundwater beneath the Site is relatively hard which is common in Southern Ontario due to overburden materials containing calcium. Manganese will sorb to soil particles and filtering can lower this parameter (if required). In general, the water quality is relatively good with no indication of organic pollution as evidenced by the lack of nitrite and low concentration of nitrate.



4.2.5 Hydraulic Conductivity

Hydraulic conductivity (K) testing was completed at monitoring wells installed in boreholes BH-103 and BH-107 on September 11, 2019. The testing consisted of falling and/or rising head testing and was completed by introducing a one-metre long slug or adding potable water within the well, and then measuring the water levels using a data logger programmed to record readings at three (3) second intervals. The data was analyzed using AQTESOLV and the Bouwer-Rice solution for each test (see Appendix C for solution data).

The K values for the hydraulic conductivity testing range from on the order of 10⁻⁵ to 10⁻⁶ cm/sec. The K values from the test data indicate that the monitoring wells were screened within low hydraulic conductivity units. The hydraulic conductivity testing suggests that excavations within these soils are expected to yield low to little water. However, increased amounts of water may be expected when pockets or layers of sand and/or gravel are intersected.

4.2.6 Infiltration Testing

For purposes of Low Impact Development strategies, infiltration data of the shallow site soils is presented in this section. In-situ constant head permeameter tests were conducted at a nominal depth of 0.6m at three (3) locations near boreholes BH-103, BH-105 and BH-107. The importance of infiltration is for the implementation of low impact development strategies (LIDs) to recharge precipitation into the ground at pre-development or near pre-development values. Infiltration testing was completed using an ETC Pask (constant head well) permeameter.

Based upon the infiltration testing conducted, the upper vadose zone has a field saturated hydraulic conductivity of 10⁻⁴ cm/sec (Appendix C). The infiltration test results provide preliminary infiltration values for the Site and are indicative of silty sand/sandy silt material. Although LIDs can be applied to any soil type, additional testing should be considered at the detailed design stage when infiltration areas are known.

Based on the Supplementary Guidelines to the Ontario Building Code 2012, this correlates to an infiltration rate in the order of 50 mm/hr. It is noted, however, that slight variations in the soil stratigraphy may cause variations in the permeability of the soil in both vertical and horizontal orientations.

Based on the Low Impact Development Stormwater Management Planning and Design Guide, the infiltration rate used to design the infiltration facility must incorporate a safety correction factor that compensates for potential reductions in soil permeability due to compaction or smearing during construction, gradual accumulation of fine sediments over the lifespan of the infiltration facility and uncertainty in measured values when less permeable horizons exist within 1.5 m below the bottom of the infiltration facility.



5. Hydrogeology

The hydrogeology of the area is characterized by rolling to hilly topography of upper soils that generally consists of silty sand/sandy silt till with occasional layers/seams of sand. Seasonal water is expected to flow within the sandy layers. Limited vertical migration is expected within the till. Only a minor portion of the existing infiltration is expected to recharge the deeper aquifers that are confined below the till. Information regarding groundwater characteristics of the immediate area was obtained from an inventory of well records. A total of forty-five (45) well records were found to be available within 500m of the Site. The well records indicate the presence of sand and clay with stones which is interpreted to be glacial till with occasional gravel and/or sand layers. The well records considered are provided and shown in Appendix B.

5.1 Existing Local Water Supplies

Nearby surrounding lands are generally residential, agricultural (cash crops), agricultural grain processing facility, and undeveloped/treed areas. The compiled MECP information included six (6) abandonment records and three (3) records for monitoring wells/test holes. The well records considered are provided and shown in Appendix B. Physical and hydraulic data are presented on some of the MECP well records.

The well records indicate the presence of sand and clay with stones which is interpreted to be glacial till with occasional gravel and/or sand layers. The information indicates the presence of two (2) principal aquifer systems:

- 1. An unconfined/partially confined shallow water table system within the shallow sand/till tapped by shallow bored/dug wells in addition to the monitoring wells; and
- 2. Deeper overburden layers of sand and gravel within the till tapped by numerous drilled wells.

The groundwater was generally described as "fresh" in the well records reviewed (when indicated). The drilled overburden well records indicates that the wells extended to depths ranging from 42.0 to 93.0m and groundwater was encountered at depths ranging from 4.6 to 63.7m. The drilled overburden wells reportedly produce test yields 3.0 to 722.0 L/min. The MECP well data has been summarized in Table 5.1.



Table 5.1 Summary of MECP Water Well Data

Total Number of Wells Inventoried: 45

Dug/Bored Wells: 2 (4%)

Drilled Wells (Overburden): 34 (76%)

Drilled Wells (Bedrock): 0 (0%)

Abandoned or other: 9 (20%)

Darametera	Statistical Summary								
Parameters	Dug / Bo	red Wells	Drilled – C	Overburden	Drilled –	Drilled – Bedrock			
WELL YIELDS Range Average	7.6 – 37.9	2.0 – 10 lgpm	11.4 – 2732.8	3 - 722 Igpm	N/A	N/A			
	L/min	6.0 lgpm	L/min	87.3 Igpm	N/A	N/A			
REPORTED YIELDS	22.7 L/min Frequency		330.3 L/min Freq	uency	Frequency				
Not Reported Dry 0 to 1 Igpm 2 to 4 Igpm 5 to 9 Igpm ≥10 Igpm	0 0 1 0 0	0% 0% 50% 0% 0% 50%	5 0 0 1 6 23	14% 0% 0% 3% 17% 66%	0 0 0 0 0	0% 0% 0% 0% 0% 0%			
STATIC WATER LEVELS Range Average	0.6 – 4.6 m	2.0 – 15.0 ft	0.6 – 24.4 m	2.0 – 80.0 ft	N/A	N/A			
	2.6 m	8.5 ft	13.8 m m	45.2 ft	N/A	N/A			
WATER ENCOUNTERED Range Average	7.6 – 8.2 m	25.0 – 27.0 ft	4.6 – 63.7 m	15.0 – 209 ft	N/A	N/A			
	7.9 m	26.0 ft	32.9 m	108.3 ft	N/A	N/A			
WELL DEPTH Range Average	8.8 – 9.1 m	29.0 – 30.0 ft	12.8 - 93 m	42 - 305 ft	N/A	N/A			
	9.0 m	29.5 ft	38.8 m	127.3 ft	N/A	N/A			

Notes: Data based on MECP well record information (see Appendix B). L/m represents litres per minute, Igpm indicates Imperial gallons per minute and m is metres.

The well records indicate that the overburden soils are generally comprised of till with varying amounts of clay, sand, gravel. To supplement the MECP well records reviewed, GHD staff conducted a well survey of the area to investigate where private wells may still be in use (Appendix B). Eleven (11) locations were surveyed as outlined in Appendix B.2.1. There were no drinking water wells identified in the survey of the area.

Information was collected during the survey from a total of eleven (1) homes close to the Site including the identification of five (5) dug/bored wells and three (3) drilled wells. At four (4) homes, no information was gathered. Homeowner interviewed during the well survey reported no water quality or quantity issues. One (1) homeowner reported a former domestic well that was removed in the 1990's.



5.2 Source Water Protection Considerations

Where proposed developments are being planned, it is important to determine the presence of Significant Groundwater Recharge Areas (SGRAs) and Highly Vulnerable Aquifers (HVAs) in the area. These areas are protected under the Clean Water Act (2006). In general, SGRAs are defined as areas where water seeps into an aquifer from rain and melting snow, supplying water to the underlying aquifer. An HVA aquifer occurs where the subsurface material offers limited protection from contamination resulting from surface activities.

GHD considered the potential for SGRAs and HVAs by reviewing the "Source Protection Information Atlas" that is currently available through the MECP website. The published information is dated January 31, 2019. In general, there are no HVAs in close proximity to the Site (see Figure 10). Further, the subsurface investigation by GHD has indicated that the existing glacial till exhibits low hydraulic conductivity indicating that it has a relative lower contribution to underlying aquifer complexes.

As defined in the Clean Water Act (2006), an area is a significant groundwater recharge area if,

- the area annually recharges water to the underlying aquifer at a rate that is greater than the rate
 of recharge across the whole of the related groundwater recharge area by a factor of 1.15 or
 more; or,
- the area annually recharges a volume of water to the underlying aquifer that is 55% or more of
 the volume determined by subtracting the annual evapotranspiration for the whole of the related
 groundwater recharge area from the annual precipitation for the whole of the related
 groundwater recharge area.

The Site is within a SGRA with a vulnerability score of 6 (moderate to high) as shown on Figure 10. GHD notes that the planned development will cover a small portion of the Site (approximately 3%). In addition, it is GHD's opinion that based upon the low permeability of the glacial till found at the Site, it should not be a moderate or high SGRA. Nevertheless, the development will consider maintaining pre-development infiltration. Therefore, no impacts are expected to the SGRA.

6. Conclusions and Recommendations

Supporting data upon which our recommendations are based have been presented in the foregoing sections of this report. The following recommendations are governed by the physical properties of the subsurface materials that were encountered at the Site and assume that they are representative of the overall site conditions. It should be noted that these conclusions and recommendations are intended for use by the designers only. Contractors bidding on or undertaking any work at the Site should examine the factual results of the investigation, satisfy themselves as to the adequacy of the information for construction, and make their own interpretation of this factual data as it affects their proposed construction techniques, equipment capabilities, costs, sequencing, and the like.



Comments, techniques, or recommendations pertaining to construction should not be construed as instructions to the contractor. Based on the results of the geotechnical investigation, it is our professional opinion that the Site is suitable for the proposed Agricultural Grain Milling Facility and there is low potential for groundwater impact as a result of developing the Site. It is recommended that good construction and mitigation techniques must be used to minimize the potential for impact. Detailed conclusions and recommendations are presented in the following sections regarding the water balance and potential impacts to groundwater and surface water resources.

6.1 Hydrogeology

6.1.1 Water Balance Evaluation

An evaluation of the water balance was completed to compute the potential impacts that may occur in the recharge/discharge characteristics related to the proposed development. This evaluation is based upon a preliminary conceptual plan. The objective of the water balance is to illustrate that post-development infiltration within the developable area can meet or be close to pre-development values. The computations have used detailed parameters such as precipitation, regional evapotranspiration, infiltration and runoff. Weather data from King Smoke Tree weather station was selected as it was the closest weather station to the Site (~21.8km). The detailed calculations can be reviewed in Appendix E. The total Site area is 36.3ha based on information provided. The following is a summary of the expected pre-development water balance values for the proposed residential development based on the current information.

Pre development Water Balance

The pre-development water balance incorporated the existing soils, slope and ground cover areas. The infiltration factor for the area was calculated from the table of values presented in the "Land Development Guidelines" (MOEE, 1995). It is based on three sub-factors which are:

- Topography sub-factor;
- · Soil sub-factor; and
- Cover sub-factor.

The slope of the site will be considered as "rolling" (slope of 2.8 to 3.8m per km) to "hilly" (slope of 28m to 47m per km). The soils are generally comprised of sandy silt / silty clay till material and will be considered a medium combination of clay and as per the water balance calculations. Table 6.1 summarizes the expected pre-development water balance values for the Site.

Table 6.1 Pre Development Summary

Total Precipitation (King Smoke Tree):

Regional Evapotranspiration:

Recharge Available:

Area of Recharge Available (Site):

Total Water Surplus:

Total Estimated Infiltration:

Total Estimated Runoff:

- 857.7 mm/year

- 581.6 mm/year

- 276.1 mm/year

- 363,045 m²

- 101,535 m³/year

- 51,387 m³/year

- 50,148 m³/year

Based upon these values, the Site infiltrates on the order of 51,387m³ per year (141 mm/year).



Post Development Water Balance (No Enhancements)

The computation of the water budget was repeated for the proposed development assuming no mitigation techniques, that is, runoff from impervious surfaces is unrecoverable and not infiltrated into the ground. The anticipated impact of the development is related to increased runoff from imperious surfaces, such as asphalt surface for the proposed access roads and the building rooftops. These are assumed to be impervious surfaces with zero infiltration capacity in this model. A summary of the computations is provided in Table 6.2.

Table 6.2 Post Development Summary (No Enhancements)

- 363.045 m² Area of Site: Impervious Surfaces: - 12,390 m² - 350.655 m² Area Available for Infiltration: - 106,016 m³/year **Total Water Surplus:** - 49,463 m³/year Total Estimated Infiltration: Infiltration % Difference (pre- vs. post-): - (-4%) (decrease) Total Estimated Runoff: - 56,553 m³/year Runoff % Difference (pre- vs. post-): - 13% (increase)

The impermeable surface area of proposed paved areas, concrete pads, receiving and scale areas and building rooftops was estimated based on the design drawing presented in Figure 4 and information provided by the Lassing Dibben. Under this scenario, the total infiltration volume decreased by 4% and runoff volume increased by 13%. Within the areas evaluated, the infiltration has reduced and the runoff increased versus the pre-development values. Groundwater base flow would be expected to decrease over time in this scenario. However, recharge via infiltration through the underlying till to the lower aquifer from these lands is expected to be minor. Based upon this scenario, mitigative strategies are required to minimize infiltration losses and reduce storm water runoff. The following section discusses the water balance after considering enhanced infiltration options.

Post Development Water Balance (Enhanced Infiltration)

The post-construction water budget computations were repeated considering enhanced infiltration options which are also known as Low Impact Development (LID) technologies. These technologies include and are not restricted to rainwater harvesting, downspout disconnection, infiltration trenches, vegetated filter strips, bioretention, permeable pavement, enhanced grass swales, dry swales and perforated pipe systems in order to balance the water budget and maintain any wetland features including nearby creeks. The shallow subsurface soils at the Site consist of silty sand / sandy silt / clayey silt till material. It is noted that LIDs can work in any soil type. The primary enhancement for this Site is to promote infiltration and to move water from impervious surfaces to areas where infiltration can occur.

The post-development water balance was modelled to include the disconnection of downspouts from storm sewers and directing water from the proposed building's roof top to sodded areas or undeveloped grass areas. A summary of the post-construction water budget with enhancements for infiltration is presented in Table 6.3.



Table 6.3 Post Development Summary (With Enhanced Infiltration)

Area of Site:

Total Water Surplus:

Total Estimated Infiltration:

Infiltration % Difference (pre- vs. post-):

Total Estimated Runoff:

Runoff % Difference (pre- vs. post-):

- 363,045 m²

- 106,016 m³/year

- 51,387 m³/year

- (0%) (nil)

- 54,628 m³/year

- 9% (increase)

Under this scenario, the total infiltration volume is maintained and runoff volume increased by 9% compared to pre development values. Within the areas evaluated, the infiltration and runoff amounts have improved compared to post development (no mitigation) numbers. However, a runoff volume increase of 9% is still present. Runoff increase compared with the pre-development conditions will need to be managed as per the storm water management plan.

It is expected that recharge via infiltration through the till to the lower aquifers is a small component and impacts to the groundwater aquifer are expected to be insignificant. It is our professional opinion that there would be minimal impact to the local groundwater regime and minimal impact to the down-gradient surface water regime from a quantity perspective.

6.1.2 Impact on Groundwater Baseflow

The importance of the groundwater baseflow is that it provides discharge to water bodies, wells and may have some hydraulic functionality with the on-site features. Water balance calculations suggest that the infiltration to the subsurface can be kept near pre-development values if appropriate LID technologies are used. It is GHD's professional opinion that there is not expected to be a significant impact to the shallow groundwater baseflow that may be supplying baseflow to the down-gradient wetlands to the southeast of the Site.

6.1.3 Impact on Surface Water Bodies

The impacts to surface water bodies are related to the reduction of the groundwater baseflow and water quality concerns related to human activities such as salting of paved areas, minor fuel and oil leaks, fertilizer application, etc. It is expected that there will be minor impacts to groundwater and neighbouring surface water bodies. Runoff from the development will be collected by an internal storm sewer system and treated using a stormwater management pond or other LID strategies. Further details are provided within the Functional Servicing Report regarding the stormwater management.



6.1.4 Mitigation Measures

Several mitigative techniques have been recommended in order to address concerns relating to the potential for impact to the base flow. The impact and mitigation measures can be arranged into two (2) distinct categories: construction phase and operational phase. Prior to construction, storm water management techniques should be incorporated to control additional surface water runoff and permit enhanced infiltration into the surrounding ground. Storm water management techniques will minimize the potential for groundwater impact and also minimize the amount of silt or other fine-grained soil particles becoming mobile and entering into down-gradient areas.

The installation of strategically placed silt fences will filter any excess storm water runoff prior to entering the infiltration areas.

During the operational phase of the development, it is expected that storm water excess will be controlled as indicated in the Functional Servicing Report. It is recommended that all roof leader drains of the proposed building be allowed to drain onto the ground surface for infiltration. Swales may be required in some areas to divert the runoff water where required. Other LIDs will be required to reduce storm water runoff and will be evaluated by the detailed design.

6.1.5 Servicing

Private services for water and septic disposal will be required for this Site. The following sections discuss water supply and septic waste disposal.

6.1.5.1 Water Supply

Groundwater Availability

For residential developments, minimum well yield requirements are defined in MOE Procedure D-5-5. For this proposed commercial development, the Ontario Building Code will be used to estimate the design flows and well yield requirements. A constant rate pump test is recommended for this Site to confirm sufficient groundwater is available and that the water well does not interfere with other local users.

Production Well Requirements

It is recommended that the proposed development be serviced by a properly constructed drilled well. The drilled well is expected to be constructed at depths ranging from about 15m to nearly 50m. Large diameter (300 mm or greater) wells are not considered suitable as a source of water supply for this Site. The well installed should be in accordance with Regulation 903 of the Ontario Water Resources Act and incorporate the following design specifics.

1. The well must be developed by conventional techniques to obtain a minimum of 70% efficiency. It is recommended that a statement be provided that indicates the well is essentially sand-free (i.e. less than 5 mg/L sand). In addition, the statement should also include that the total drawdown in the well, comprising the pumping level plus the mutual interference from the other wells, is within a reasonable tolerance of the available drawdown.



2. A water sample must be collected from the new well and analyzed for the following (minimum) test parameters to meet the ODWS.

-Iron -Manganese -Nitrate -Sodium -Hardness -Turbidity

-Total Coliform -E. *coli* -Fecal Coliform

-Chloride -Total dissolved solids -Fluoride

3. It is recommended that the new, properly constructed well be pump tested by qualified hydrogeologic personnel prior to issuance of a building permit. The well should be pump tested to determine a safe long-term yield and short-term capacity to ensure uninterrupted water supply for the development and to ensure that adjacent properties will not be impacted. A report should be prepared by a Professional Engineer or Professional Geoscientist verifying individual pump testing data.

The use of a properly constructed drilled well that is adequately sealed and certified by qualified hydrogeological personnel should be sufficient to provide ample quantities of potable water while preserving the long term water quality of the existing aquifer complexes. Any existing wells on the Site including monitoring wells that will not be used should be abandoned in accordance with Regulation 903.

The use of groundwater heat pumps that extract water from the aquifer is not recommended. Geothermal drilling is unregulated and there are no mandatory requirements to seal boreholes that are drilled through or into aquifers. Therefore, unsealed or improperly sealed boreholes into the aquifer could put the water supply at risk.

6.1.5.2 Septic Waste Disposal

General

The Preliminary Site Plan (by Lassing Dibben) indicates that a septic system will be installed for the planned building. In addition, Lassing Dibben have indicated that the planned development will generate less than 10,000 L/day of septic effluent per day. A detailed assessment of the suitability of the septic system is required to determine the potential impact of the sewage systems at the Site on groundwater resources. The Site is not considered to be hydrogeologically sensitive (Procedure D-5-4, MOE, 1996). The MECP dilution model was used to confirm that the projected post-development nitrate concentration meets the drinking water standard of 10 mg/L for nitrate. It is our professional opinion that the Site is suitable for the construction of the planned septic waste disposal system.

The overburden materials were investigated during the advancement of the 17 test holes. The boreholes generally encountered a surficial layer of topsoil, over till, generally consisting of sandy silt or silty sand and occasionally clayey silt. Minimal groundwater seepage and / or accumulation was observed in the boreholes during the drilling operations. In addition, bedrock was not encountered. The T-time of the underlying soil is estimated to be between 30 and 50 min/cm. Based upon the subsurface soils in the area of the proposed leaching bed, it is recommended that the waste disposal system be designed as a fully raised bed. A detailed review of the expected waste disposal impacts and recommendations are presented in the following sections.



Developmental Impact

For the purposes of calculating the potential impact of the planned development, the Ontario Building Code (OBC) was consulted to evaluate the design septic effluent loading rate. Based upon discussions with the Client, it is estimated that there will be up to twenty (20) employees involved in the proposed development. The OBC indicates an effluent flow generated for each employee of 75 L/day. Therefore, the proposed development will generate about 1,500 L/day. Based upon this calculation, the planned septic system is well below 10,000 L/day and would not require a MECP environmental compliance approval (ECA). The anticipated water use is expected to be at least ½ of the design criteria.

For the purposes of calculating the potential impact of the proposed commercial development, the estimated 1,500 L/day was used as the septic effluent loading rate for the Site. While most constituents in septic effluent are usually removed within a short distance of movement within soil, mobile constituents such as chlorides and nitrates will require sustained dilution to meet the drinking water standards of 10 mg/L N for nitrate. The MECP normally considers sewage from a Class 4 waste disposal system will contain 40 mg/L of nitrate. For the purpose of assessing the impact of projected nitrate loading, the dilution requirement of 4:1 was utilized in the impact computations.

A summary of the applicable parameters that were considered in the waste disposal evaluation and the computation of the projected nitrate concentration are presented below in Table 6.4. Sandy silt typically infiltrates on the order of 150 to 200 mm/year. A median value of 175 mm/year was selected for this nitrate impact assessment. The average background nitrate concentration (2.00 mg/L) as determined from monitoring wells at BH-103 and BH-107 was used in the nitrate impact assessment.

Using dilution only, the projected nitrate concentration generated from sewage at the Site is calculated to be 0.34 mg/L. The nitrate impact assessment indicates that nitrate impacts from septic effluent will not be an issue. The proposed development meets the 10 mg/L drinking water standard for nitrate.

Table 6.4 Nitrate Impact Assessment Summary

1.	Recharge rate (sandy silt)	175 mm/year
2.	Development area	36.3 hectares
3.	Background nitrate	2.00 mg/L
4.	Nitrate loading (40 mg/L x 1,500 L/day)	60,000 mg/day
5.	Projected nitrate concentration	0.34 mg/L

Waste Disposal Requirements

Based on the results of this assessment, the Site is suitable for a private septic waste disposal system. Fill may be required and drainage patterns and storm drainage will be re-directed and controlled as part of the storm water management plan. It is recommended that the septic system use a fully raised absorption trench leaching bed. The waste disposal system should meet Ontario Regulation 350/06 made under the Building Code Act, 1992 and incorporate the following design features.



- 1. Organics should be stripped from the area of the leaching bed and down-gradient mantle.
- 2. The exposed subgrade below the tile bed should be trimmed and scarified, and provided with a gentle slope of 0.5% in the direction of the mantle.
- 3. The tile bed should be constructed as a fully raised leaching type bed to the full height of at least 1m above existing grade. The raised bed should consist of clean, granular fill capable of providing an in-place percolation rate (T-time) of 4 to 8 min/cm.
- 4. The mantle should be constructed along the down-gradient margin of the raised bed. The mantle should extend along the full width of the bed and for a minimum of 15m down-gradient from the bed. The mantle should consist of similar granular fill raised to a minimum of 250mm above the surrounding grade. Surface runoff should be diverted away from the leaching bed by means of proper site drainage.
- 5. The waste disposal system should be kept clear of surface drainage swales, roof leader drains, and other sources of surface water.
- 6. The tile bed should be kept away from shade trees and a healthy cover of vegetation should be developed and maintained over the bed to promote evapotranspiration.
- 7. When sighting tile bed on sloping ground, it is recommended that procedures outlined in the Building Code be followed closely.
- 8. Minimum set back distances from septic tank (plus 2 times height raised):

-Building – 1.5m -Property line – 3m

-Drilled well – 15m -Open water course – 15m

9. Minimum set back distances from septic tile bed (plus 2 times height raised):

-Building – 5m -Property line – 3m

-Drilled well, properly sealed – 15m -Open water course – 15m

-Shallow well - 30m

10. The layout, design and construction of the waste disposal bed should be subject to inspection by experienced hydrogeologic personnel.

New technologies are available that can reduce the size of the footprint of the conventional septic system (if required). If other new technology septic system is incorporated into the design, it is recommended that the system be installed as per the Ontario Building Code.

6.1.6 Dewatering for Construction

Based on groundwater-related observations and the depth of excavations expected for this development, it is generally anticipated that groundwater seepage will be encountered. It is expected that pumping from collection sumps to an acceptable outlet will control this expected groundwater infiltration. However, should any excavations require more intensive dewatering or groundwater control, the use of filtered sumps, or other suitable method of dewatering and/or sheet piling is recommended.



For dewatering purposes, hydraulic conductivities on the order of about 10⁻⁵ to 10⁻⁶ cm/sec may be expected for the subgrade soils encountered in our boreholes. It should be noted that hydraulic conductivities can vary over a vertical and horizontal extent, and may be outside the stated range if pockets or seams of soils with different grain size (e.g. sand seams) are encountered. If short-term pumping of groundwater at volumes greater than 50,000 L/day and less than 400,000 L/day is required during the construction stage, the Environmental Activity Sector Registry (EASR) must be completed. The EASR streamlines the process and water pumping may begin once the EASR registration is completed, the fee paid and supporting document prepared. If water taking in excess of 400,000 litres/day is required, a Permit to Take Water (PTTW) must be obtained in advance. PTTW applications may take up to 90 working days for the MECP to review and approve. The actual rate of groundwater taking performed during construction will be a function of the final design, time of year, and the contractor's schedule, equipment, and techniques.

6.2 Geotechnical

Supporting data upon which our recommendations are based have been presented in the foregoing sections of this report. The following recommendations are governed by the physical properties of the subsurface materials that were encountered and assume that they are representative of the overall Site conditions. It should be noted that these conclusions and recommendations are intended for use by the designers only. Contractors bidding on or undertaking any work at the Site should examine the factual results of the investigation, satisfy themselves as to the adequacy of the information for construction, and make their own interpretation of this factual data as it affects their proposed construction techniques, equipment capabilities, costs, sequencing, and the like. Comments, techniques, or recommendations pertaining to construction should not be construed as instructions to the contractor. It should be noted that where the Municipality has design standards that apply to specific aspects of this project, such standards shall take precedence over any corresponding dissimilar recommendations contained herein.

The soils encountered generally consisted of a surficial layer of topsoil underlain by silty sand/sandy silt or clayey silt glacial till. Occasionally, a layer of silty sand was observed between the surficial topsoil layer and the glacial till. Isolated sand seams were encountered within the glacial till sporadically throughout the Site. Groundwater seepage and/or accumulation was observed in nine (9) of the boreholes at depths ranging from 1.7 to 5.3m during the drilling. Groundwater level measurements obtained from the installed monitoring wells on October 11, 2019, ranged from 0.2 to 5.3 m (315.8 to 318.9 masl). The monitoring well installed in boreholes BH-1 was measured to be dry on October 11, 2019.

6.2.1 Site Preparation and Excavation

Any and all topsoil, vegetation, fill, disturbed earth, organic and organic-bearing material is to be stripped and removed from the access roads and building envelope areas (including floor slab areas) prior to commencing earthwork construction. Overly loose, organic, or otherwise deleterious materials will require removal and replacement with an approved backfill material. The subexcavated surface must be proof rolled and/or approved by a member of GHD prior to placement of fill or foundations. Excavations should be carried out to conform to the manner specified in Ontario Regulation 213/91 and the Occupational Health and Safety Act and Regulations for Construction Projects (OHSA).



All excavations above the water table not exceeding 1.2 m in depth may be constructed with vertical, unsupported slopes. The soils encountered during this investigation are generally classed by OHSA as Type 3. As such, unsupported / unshored walls of excavations in these soils must be sloped to the bottom of the excavation, with a slope having a gradient of 1 horizontal to 1 vertical (1H:1V) or flatter, or be retained using a suitably designed shoring system.

It is expected that some of the excavation spoils may be suitable for reuse as trench and/or pavement subgrade backfill provided they are free of organics and at a moisture content that will permit adequate compaction (may require prior processing such as aeration to lower the moisture content). A final review and approval to reuse any soils should be made at the time of construction.

Prior to removing any excess soils from the Site, it is recommended that such materials be subjected to chemical testing to characterize the excess soils for handling and disposal purposes.

6.2.2 Service Installation

The materials encountered during this investigation at the typical service invert elevation generally consist of silty sand/sandy silt or clayey silt glacial till. As such, normal compacted bedding material, placed in the Class "B" or Class "C" arrangement, is recommended for all underground services. The recommended bedding material is Granular "A" or 19 mm crusher run (angular) stone, as per Ontario Provincial Standard Specifications (OPSS). The minimum recommended bedding thickness for the underground services is 150mm. All bedding materials should be compacted to 98% of their Standard Proctor Maximum Dry Density (SPMDD).

It is recommended that cover backfilling of the underground services be accomplished using Granular "A", sand, or other suitable material as allowed by the Municipality's standards, to a minimum of 300mm above the pipe.

Compaction of this material should attain 100% SPMDD. It is expected that some of the excavated soils may be suitable for reuse as trench backfill, conditional upon suitable moisture content (within 2% of optimum), final review and approval by an experienced geotechnical engineer at the time of construction, and regular monitoring and inspection of such reuse throughout construction. Compaction of any native soil in service trenches is recommended to be a minimum of 98% of its SPMDD. The soils observed may require processing (such as aeration) to lower the moisture content to appropriate levels prior to being considered as backfill material.

6.2.3 Foundation Design

Relevant information for final design purposes including proposed final grades, finished floor elevations, and proposed underside of foundations were not available to GHD at the time of writing this report. As such, the recommendations contained in this Foundation section must be reviewed by GHD's geotechnical engineers once such development design parameters become available. Structural loading for the proposed agricultural grain milling facility building may be supported on strip and spread footings. The footings should be placed on the undisturbed, compact to very dense native soils or on engineered fill place directly on the undisturbed, compact to very dense native soils. Table 6.5 summarizes the depths to suitably competent native soil encountered in each borehole advanced within the proposed development area.



Table 6.5 Depth to Competent Bearing Native Soil

Borehole ID	Depth (m to Competent Native Soil	Borehole ID	Depth (m) to Competent Native Soil
BH-101	0.9	BH-105	0.9
BH-102	1.5	BH-106	0.9
BH-103	0.9	BH-107	0.3
BH-104	0.9	BH-108	0.9

It is noted that a pockets of soft or loose soils were observed in borehole, BH-103 and may be present at other locations. If such soils are encountered at the foundation subgrade level, they must be subexcavated and replaced with engineered fill. For preliminary design purposes, it is recommended that footings constructed on compact to very dense native soils or engineered fill be proportioned and designed using the following bearing capacities presented in Table 6.6.

Table 6.6 Preliminary Bearing Pressures for Foundation Design

	Bearing Pressure						
Parameter	Firm to Hard	Engineering Fill					
, arameter	Undisturbed Native Soils	Rock-based Fill ⁽²⁾	Granular Fill ⁽³⁾	Earth Borrow Fill ⁽³⁾			
Factored Bearing Capacity at ULS (1)	130 kPa	210 kPa	170 kPa	130 kPa			
Bearing Capacity at SLS	90 kPa	150 kPa	120 kPa	90 kPa			

Notes: (1) Resistance factor Φ =0.5 applied to the ULS bearing pressure for design purposes.

Any engineered fill upon which foundations are placed must be a minimum thickness corresponding to the notes that accompany the above table. Rock-based fill must be completely encapsulated with suitable filter fabric to minimize any migration of fine-grained particles from surrounding soils into the voids within the rock fill. Footings (and foundation walls) placed on engineered fill must be suitably reinforced; as a minimum, and where not already specified in the design drawings, this reinforcing should use 2 continuous runs of 15M rebar throughout the footings, and 2 runs of 15M rebar throughout near the top and bottom of the foundation walls. The following is recommended for the construction of any engineered fill for the footings:

- 1. Remove any and all existing vegetation, topsoil, fill, organics, and organic-bearing soils to the competent, undisturbed native soil from within the area of the proposed engineered fill.
- 2. The area of the engineered fill should extend horizontally 1m beyond the outside edge of the building foundations and then extend downward at a 1:1 slope to the competent native soil.

⁽²⁾ At least 1m of Rock-based fill. Quality of material is to be approved prior to use as engineered fill.

⁽³⁾ At least 0.3m of Granular or Earth Borrow fill. Quality of material is to be approved prior to use as engineered fill.



- 3. The base of the engineered fill area must be approved by a member of GHD prior to placement of any fill, to ensure that all unsuitable materials have been removed, that the materials encountered are similar to those observed, and that the subgrade is suitable for the engineered fill.
- 4. All engineered fill material is to be approved by GHD at the time of construction. Place approved engineered fill, in maximum 300 mm lifts, compacted to 100% of its SPMDD. Any fill material placed under sufficiently wet conditions should consist of an approved, rock-based fill, with the inclusion of appropriate geotextile fabric around the rock-based fill should the rock fill contain enough voids to warrant.
- 5. Full time testing and inspection of the engineered fill will be required, to ensure compliance with material and compaction specifications.

All exterior foundations and/or foundations in unheated areas, should be founded at least 1.2 m below the final adjacent grade for frost protection. Foundations and walls exposed to frost action should be backfilled with non-frost susceptible granular material, and positive drainage away from the structure should be ensured.

Under no circumstances should the foundations be placed above organic materials, loose, frozen subgrade, construction debris, or within ponded water. Prior to forming, all foundation excavations must be inspected and approved by a member of GHD's geotechnical group. This will ensure that the foundation bearing material has been prepared properly at the foundation subgrade level and that the soils exposed are similar to those encountered during this investigation.

For design purposes this site is conservatively classed as Site Class D for Seismic Site Response, in accordance with the Ontario Building Code.

For foundations constructed in accordance with the foregoing manner, total and differential settlements are estimated to be less than 25mm.

6.2.4 Slab on Grade

The floor of the proposed building may be constructed as a normal slab-on-grade, on granular fill over native, inorganic subsoils. The floor slab should be formed over a base course consisting of at least 150 mm of Granular "A" material, compacted to a minimum of 100 % of its SPMDD. All grade increases or infilling below the Granular "A" should be constructed in accordance with the engineered fill steps provided in this report. All fill placed as engineered fill must be inspected, approved and compaction verified by personnel from GHD.

6.2.5 Retaining Walls

It is recommended that free draining backfill to earth retaining walls be provided. The following soil parameters are recommended for purposes of retaining wall design.



Table 6.7 Parameters for Lateral Earth Pressure Design

Soil Type	Unit Weight (kN/m³)	Angle of Internal Friction (φ)	Active Earth Pressure Coefficient (K _a)	Passive Earth Pressure Coefficient (K _p)	At-rest Earth Pressure Coefficient (K _o)
Compact Sand Fill	20	32	0.31	3.2	0.47
Till	19	30	0.33	3.0	0.50

The recommended value for the coefficient for sliding friction between the soil and the concrete is 0.4. In addition to the above, hydrostatic forces must be taken into account in the design where the walls extend below the groundwater table. Also, any additional surcharge loading that will influence the wall must be taken into account in its design.

For earth retaining walls, it is recommended that for drainage purposes, perimeter drains be installed about the structures. The subdrains would serve to drain seepage water that infiltrates the backfill, intersect the groundwater and any seepage related to surficial-related water, and help relieve hydrostatic pressures due to high groundwater levels. The drains should consist of a perforated pipe, at least 150 mm in diameter, surrounded by crushed clear stone and suitable filter protection. The drain should discharge to a positive sump or other permanent frost free outlet.

6.2.6 Pavement Design

Based on the results of this investigation, we would recommend the following procedures be implemented to prepare the proposed asphalt paved access way and parking areas for its construction.

- 1. Remove all asphalt, topsoil, fill, organics, organic-bearing materials and other deleterious materials from the planned pavement areas.
- 2. Inspect and proof roll the subgrade for the purpose of detecting possible zones of overly wet or soft subgrade. Any deleterious areas thus delineated should be replaced with approved granular material compacted to a minimum of 98% of its SPMDD.
- 3. Contour the subgrade surface to prevent ponding of water during the construction and to promote rapid drainage of the sub-base and base course materials.
- 4. To maximize drainage potential, 150mm diameter perforated pipe subdrains should be installed below any curb lines. The pipe should be encased in filter fabric and surrounded by clear stone aggregate. It is recommended that the subdrains discharge to a suitable, frost-free outlet.
- 5. Construct transitions between varying depths of granular base materials at a rate of 1:25 minimum.



The subgrade materials in the proposed pavement areas will generally consist of silty sand/sandy silt till, depending on the preferred method of construction and corresponding depths of subexcavation. The frost susceptibility of these soils is assessed as being generally moderate. The following minimum flexible pavement structures are recommended for new road construction.

Table 6.8 Pavement Structure

Drofile	Material	Thickness (m	m)	In Conformance with OPSS	
Profile	Material	Light Duty	Heavy Duty	Form	
Asphalt Surface	H.L.3	40	40	1450	
Asphalt Base	H.L.8	50	50	1150	
Granular Base	Granular "A"	150	150	1010	
Granular Subbase	Granular "B"	300	450	1010	

The following steps are recommended for optimum construction of paved areas:

- 1. The Granular "A" and "B" courses should be compacted to a minimum 100 percent of their respective SPMDD's.
- 2. All asphaltic concrete courses should be placed, spread and compacted conforming to OPSS Form 310 or equivalent. All asphaltic concrete should be compacted to a minimum 92.0 percent of their respective laboratory Maximum Relative Densities (MRD's).
- 3. Adequate drainage should be provided to ensure satisfactory pavement performance.

It is recommended that all fill material be placed in uniform lifts not exceeding 200mm in thickness before compaction. It is suggested that all granular material used as fill should have an in-situ moisture content within 2 percent of their optimum moisture content. All granular materials should be compacted to 100 percent SPMDD. Granular materials should consist of Granular "A" and "B" conforming to the requirements of OPSS Form 1010 or equivalent.

The performance of the pavement structure is highly dependent upon the subgrade support conditions. Stringent construction control procedures should be maintained to ensure that uniform subgrade moisture and density conditions are achieved as much as practically possible. It is noted that the above recommended pavement structures are for the end use of the project. The most severe loading conditions on pavement areas and the subgrade may occur during construction. As such, during construction of the project the recommended granular depths may not be sufficient to support loadings encountered. Consequently, special provisions such as restricted lanes, half-loads during paving, etc. may be required, especially if construction is carried out during unfavorable weather.



6.2.7 Stormwater Management Pond Design

It is GHD's understanding that the Storm Water Management (SWM) pond for the Site is targeted near the southern limits of the proposed development area as shown on Figure 4. Based on the soil conditions encountered during the investigation, it is expected that the bottom of the SWM pond will consist of native soils generally consisting of sandy silt / clayey silt till. Gradation testing on samples of these soils suggest the following compositional ranges: 0 to 8% gravel, 16 to 40% sand, and 53 to 84% silt and clay-sized particles (USCS). Hydrometer analyses conducted on three (3) these samples suggest that the till contains 41 to 67% particles between 5 and 75 μ m in size. Based on gradation results the hydraulic conductivity of such soils is expected to be on the order of about of 10^{-5} to 10^{-6} cm/sec. It is noted, however, that slight variations in the soil stratigraphy may cause variations in the permeability of the soil in both vertical and horizontal orientations.

Based on the soils observed, and depending on the final base elevation, it appears that construction of the SWM ponds in the glacial till may be feasible. Appropriate measures should be taken during construction to minimize any overland or near-surficial flow of water into the area. Groundwater seepage and/or accumulation was observed in nine (9) of the boreholes at depths ranging from 1.7 to 5.3m during the drilling operations. Groundwater level measurements obtained from the installed monitoring wells on October 11, 2019, ranged from 0.2 to 5.3 m (315.8 to 318.9 masl). Groundwater and surficial water inflow into the open SWM pond excavations is expected. However, this is generally expected to be controlled by pumping from within the excavation, along with further measures (if required) including up-gradient cutoff trenching with appropriate drainage outletting.

It is recommended that the SWM pond subgrade surfaces be proof rolled, and a representative of GHD approve the subgrade prior to construction of the berms. Construction of the berms may utilize excess site soils having a hydraulic conductivity of 10⁻⁵ cm/sec (or less). Such operations should place soils in lifts no thicker than 150mm prior to compaction, and compacted to at least 95% SPMDD. The native, undisturbed till soils consisting predominantly of silt and clay would have a sufficiently low permeability where they could substitute for a liner.

Regardless, an inspection of the excavated and exposed SWM pond surfaces should be performed at the time of construction, to assess whether any discrete or localized areas of increased hydraulic conductivity are present within the exposed soils, in which case such areas may be lined with a more suitable (i.e., less hydraulically conductive) material or an impermeable geosynthetic membrane.

For the purpose of the proposed SWM pond, the soils observed should be stable from slip circle failure if sloped at 3 horizontal to 1 vertical (3H:1V) or flatter in the long term both above and below the water table. Between the stable water level and the expected high water level, it is recommended that the slopes be lessened to 4H:1V (or flatter) to guard against erosion by wavelet action. The native material will require vegetative root mass (or otherwise suitable erosion protection) to minimize erosional forces on exposed slopes.

Slopes and berms of the SWM pond should be constructed so as to reduce or eliminate the effects of surficial erosion. Features to do so may include slope vegetation, installation of erosion or gabion mats, rip rap, and/or other acceptable stabilizing features.



It is recommended that a regular maintenance program for the SWM Pond include monitoring of it for any potential slope erosion, degradation, or otherwise undesirable structural conditions. Should any such conditions become evident, immediate mitigative actions must be performed.

6.2.8 General Recommendations

Wells

Any decommissioning of wells on-site must be performed by an appropriately licensed and experienced well contractor in compliance with Ontario Regulation 903.

Test Pit During Tendering

It is strongly recommended that test pits be excavated at representative locations of this Site during the tendering phase, with mandatory attendance of interested contractors. This will allow them to make their own assessments of the groundwater and soil conditions at the Site and how these will affect their proposed construction methods, techniques and schedules.

Subsoil Sensitivity

The native subsoils are susceptible to strength loss or deformation if saturated or disturbed by construction traffic. Therefore, where the subgrade consists of approved soil, care must be taken to protect the exposed subgrade from excess moisture and from construction traffic.

Winter Construction

The subsoils encountered across the site are frost-susceptible and freezing conditions could cause problems for the following reasons.

- 1. During winter construction, exposed surfaces intended to support foundations must be protected against freezing by means of loose straw and tarpaulins, heating, etc.
- 2. Care must be exercised so that any sidewalks and/or asphalt pavements do not interfere with the opening of doors during the winter when the soils are subject to frost heave. This problem may be minimized by any one of several means, such as keeping the doors well above outside grade, installing structural slabs at the doors, and by using well-graded backfill and positive drainage, etc.
- 3. Because of the frost heave potential of the soils during winter, it is recommended that the trenches for exterior underground services be excavated with shallow transition slopes in order to minimize the abrupt change in density between the granular backfill, which is relatively non-frost susceptible, and the more frost-susceptible native soils.

Design Review and Inspection

Due to the preliminary nature of the design details at the time of this report, we recommend that our firm be retained to review the foundation design and grading proposals when they are available. Geotechnical inspection and compaction testing must be carried out to ensure compliance with our recommendations.



6.3 Summary Conclusions

In summary, the proposed development area is generally comprised of a surficial layer of topsoil underlain by silty sand/sandy silt or clayey silt glacial till. Occasionally, a layer of silty sand was observed between the surficial topsoil layer and the glacial till. A permanent shallow groundwater table was not observed. It is our opinion that there will not be significant constraints for the proposed development area from the seasonal variations of groundwater as the water can be handled with appropriate engineering techniques. It is expected that groundwater will generally be below the depth of the future development, although seepage may be encountered in deeper excavations or foundations.

Seepage is expected to be seasonal in nature. If short-term pumping of groundwater at volumes greater than 50,000 L/day and less than 400,000L/day is required during the construction stage, the EASR must be completed. In summary, the proposed Agricultural Grain Milling Facility is suitable from both a hydrogeologic and geotechnical perspective. The MECP well records indicate that wells in the area consist of both dug/bored and drilled types. The well survey in the immediate vicinity also confirmed dug/bored and drilled wells are in use. Impacts to existing domestic wells in the area are not expected based upon the proposed development and the large area of the Site (36.3ha).

There are minor impacts expected to groundwater and surface water as a result of the future development provided that appropriate planning (i.e. incorporation of LIDs as supported by the water balance calculations), mitigation measures and proper construction techniques are considered. From a geotechnical perspective, the Site is suitable for construction of the proposed development including one to two-storey commercial building, associated servicing and paved access and parking areas. Detailed recommendations are provided in previous sections of this report.

The following Statement of Limitations should be read carefully and is an integral part of this report. We trust this report meets your immediate needs. Should any questions arise regarding any aspect of our report, please contact our office.

Sincerely,

Sincer

Nyle Micliveen, P.Eng

lr//dw/nm



7. References

Chapman and Putnam, 1966. The Physiography of Southern Ontario, 2nd Edition. University of Toronto Press.

Chapman and Putnam, 1984. The Physiography of Southern Ontario, 3rd Edition. Ministry of Natural Resources.

City of Toronto, November 2006. Wet Weather Flow Management Guidelines.

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Freeze, R. Allan and Cherry, John A. 1979. Groundwater.

Ministry of the Environment, Conservation and Parks, January 31, 2019. Source Protection Information Atlas, available online at www.ontario.ca.



8. Statement of Limitations

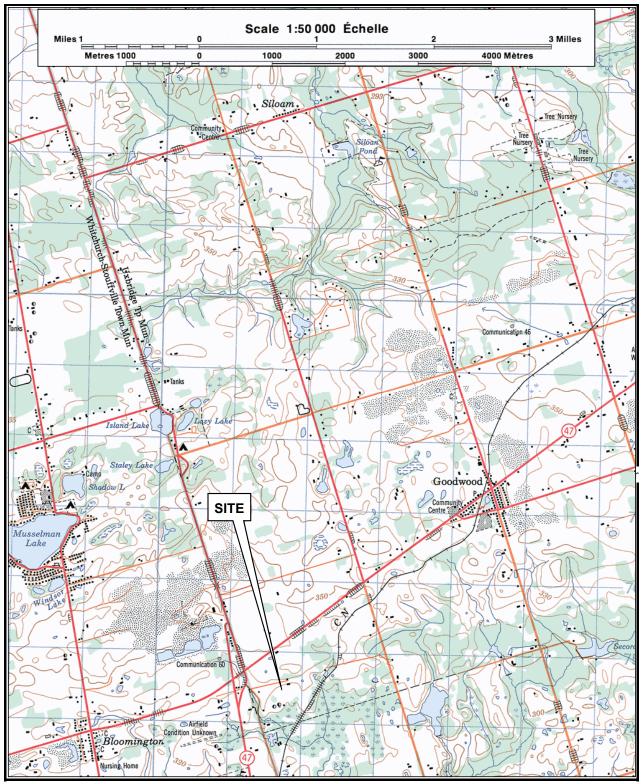
This report is intended solely for Grainboys Holdings Inc. in assessing the geotechnical and hydrogeologic aspects of the lands situated along the east side of Concession Road 1 (also known as York-Durham Line), south of Highway No. 47 near the urban area of Lincolnville, Ontario and is prohibited for use by others without GHD's prior written consent. This report is considered GHD's professional work product and shall remain the sole property of GHD. Any unauthorized reuse, redistribution of or reliance on the report shall be at the Client and recipient's sole risk, without liability to GHD. Client shall defend, indemnify and hold GHD harmless from any liability arising from or related to Client's unauthorized distribution of the report. No portion of this report may be used as a separate entity; it is to be read in its entirety and shall include all supporting drawings and appendices.

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

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

It is important to emphasize that a soil investigation is, in fact, a random sampling of a site and the comments included in this report are based on the results obtained at the test hole locations only. The subsurface conditions confirmed at the test hole locations may vary at other locations. The subsurface conditions can also be significantly modified by the construction activities on site (ex. excavation, dewatering and drainage, blasting, pile driving, etc.). These conditions can also be modified by exposure of soils or bedrock to humidity, dry periods or frost. Soil and groundwater conditions between and beyond the test locations may differ both horizontally and vertically from those encountered at the test locations and conditions may become apparent during construction which could not be detected or anticipated at the time of our assessment. Should any conditions at the site be encountered which differ from those found at the test locations, we request that we be notified immediately in order to permit a reassessment of our recommendations. If changed conditions are identified during construction, no matter how minor, the recommendations in this report shall be considered invalid until sufficient review and written assessment of said conditions by GHD is completed.

Enclosures GHD | Geotechnical Investigation, Agricultural Grain Milling Facility, 3469 Concession Rd 1, Uxbridge, ON | 11197394 (02)



Base map complied from Energy, Mines and Resources Canada Map 30M/15 published 1999. Air photography boundaries current as of 1996

<u>Scale:</u> 1:50000 Coordinate System NAD 1983 UTM Zone 17

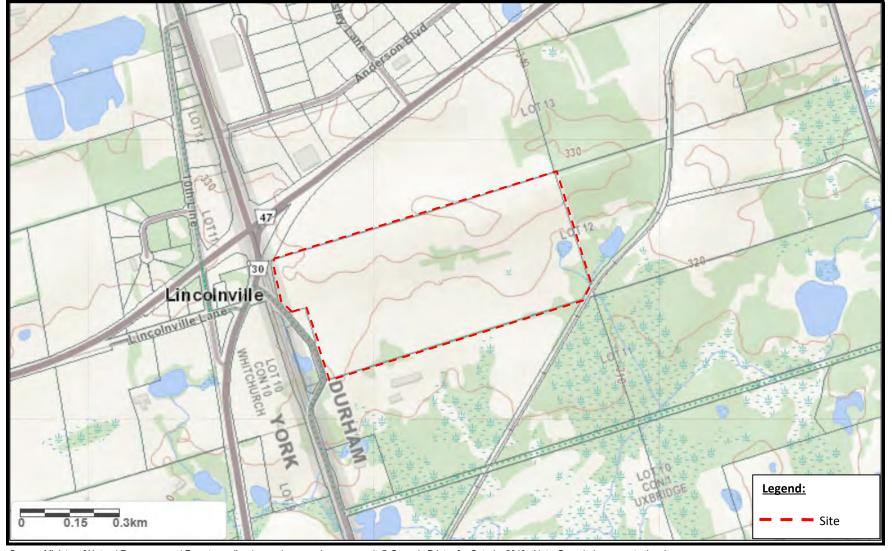




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Vicinity Plan

FIGURE 1



Source: Ministry of Natural Resources and Forestry, online (www.giscoeapp.lrc.gov.on.ca) © Queen's Printer for Ontario, 2019. Note: Boundaries are not a legal survey.

Scale:

Refer to Scale Bar Coordinate System: NAD 1983 UTM Zone 17





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Property Plan

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FIGURE 2



Source: Ministry of Natural Resources and Forestry, online (www.giscoeapp.lrc.gov.on.ca) © Queen's Printer for Ontario, 2019. Note: Boundaries are not a legal survey.

Scale:

Refer to Scale Bar Coordinate System: NAD 1983 UTM Zone 17

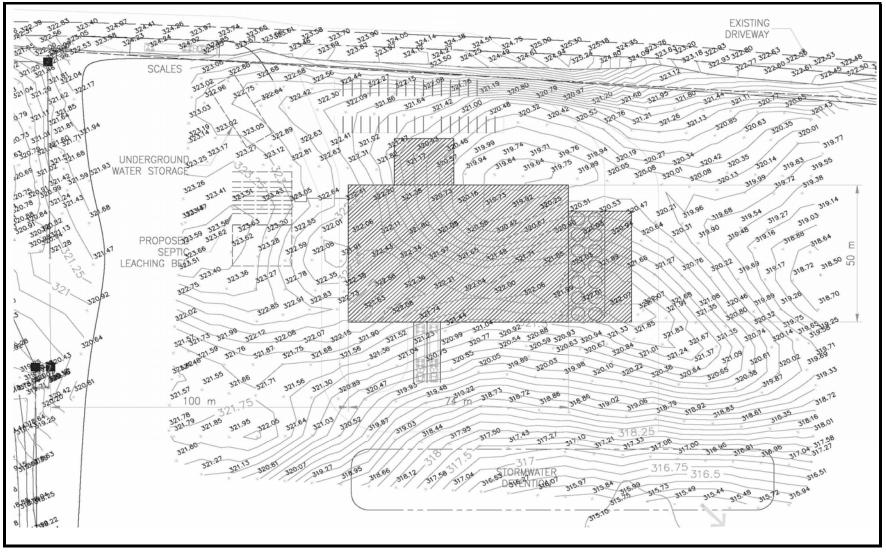




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Plot Plan

FIGURE 3



Source: Preliminary Site Lavout provided by Lassing Dibben Consulting Engineers Ltd. with electronic title "19-066 Site wContours dwg"

Scale:

Not Determined Coordinate System: NAD 1983 UTM Zone 17



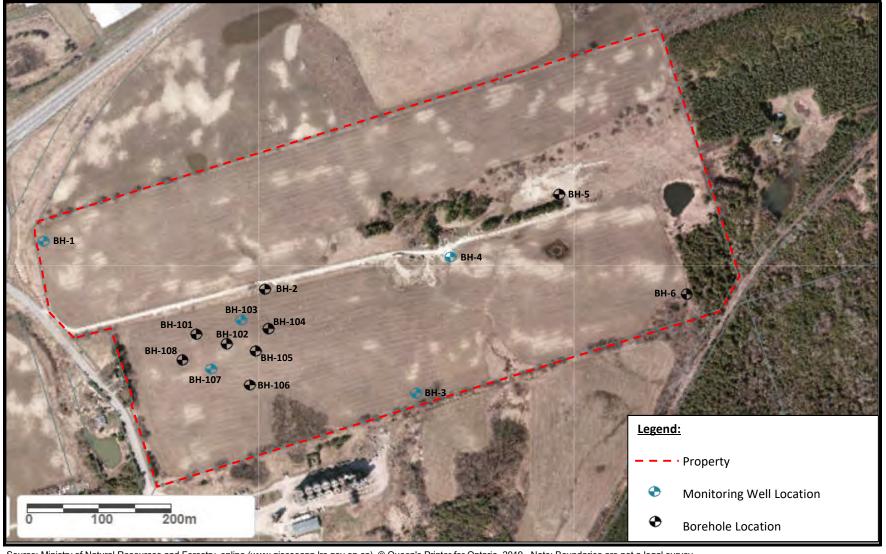


Grainboys Holdings Inc. 3469 Con Rd 1, Township of Uxbridge Geotechnical Investigation

Concept Plan

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FIGURE 4



Source: Ministry of Natural Resources and Forestry, online (www.giscoeapp.lrc.gov.on.ca) © Queen's Printer for Ontario, 2019. Note: Boundaries are not a legal survey.

Scale:

Refer to Scale Bar Coordinate System: NAD 1983 UTM Zone 17





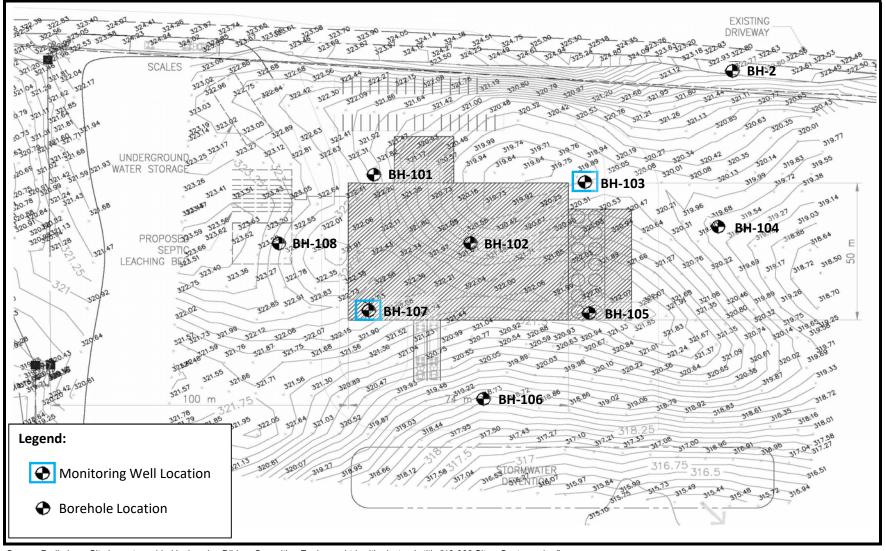
Grainboys Holdings Inc. 3469 Con Rd 1, Township of Uxbridge Geotechnical Investigation

Test Hole Plan - Site

October 2019

11197394-02

FIGURE 5A



Source: Preliminary Site Layout provided by Lassing Dibben Consulting Engineers Ltd. with electronic title "19-066 Site wContours dwg".

Scale:

Not Determined Coordinate System: NAD 1983 UTM Zone 17





Grainboys Holdings Inc. 3469 Con Rd 1, Township of Uxbridge Geotechnical Investigation

Test Hole Plan - Proposed Building

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FIGURE 5B



Scale:

Refer to Scale Bar Coordinate System: NAD 1983 UTM Zone 17



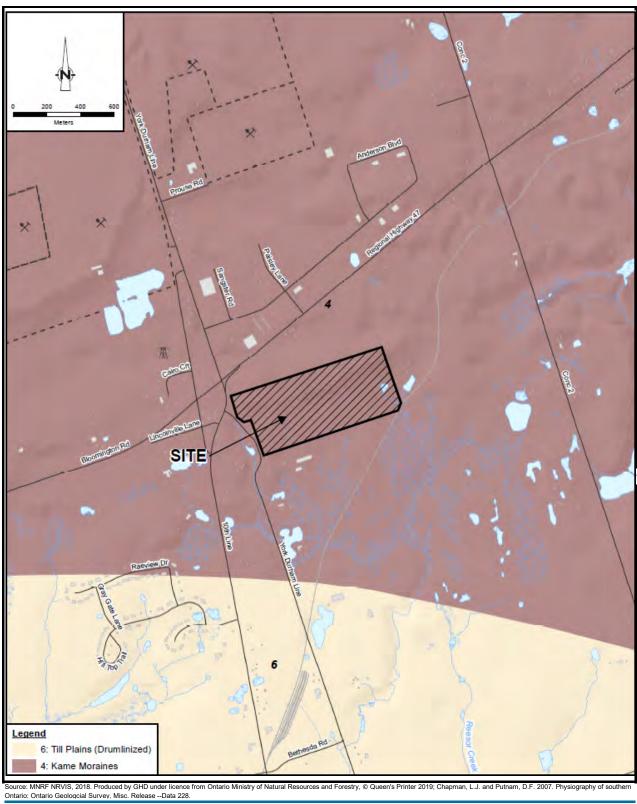


Grainboys Holdings Inc. 3469 Con Rd 1, Township of Uxbridge Geotechnical Investigation

Groundwater Elevation

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FIGURE 6



Scale: Refer to Scale Bar Coordinate System NAD 1983 UTM Zone 17N



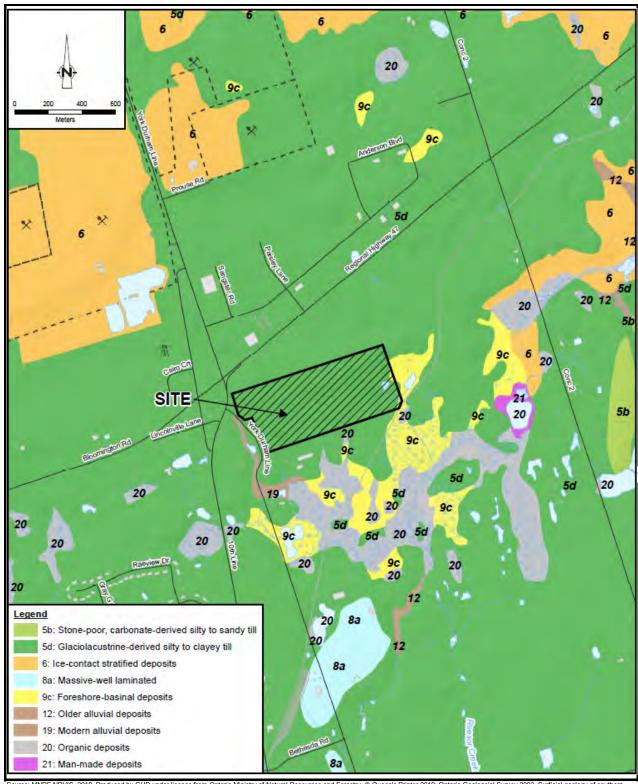


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11197394-02 October 2019

Physiography

FIGURE 7



Source: MNRF NRVIS, 2018. Produced by GHD under licence from Ontario Ministry of Natural Resources and Forestry, © Queen's Printer 2019; Ontario Geologcial Survey 2003. Surficial geology of southern Ontario; Ontario Geological Survey, Misc. Release -- Data 128.

<u>Scale:</u> Refer to Scale Bar Coordinate System NAD 1983 ÚTM Zone 17N

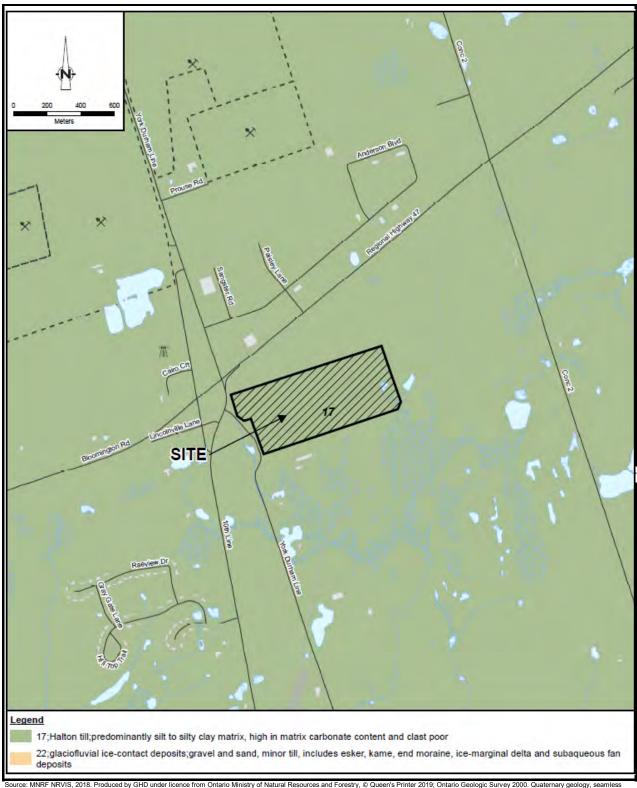




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Surficial Geology FIGURE 8



Source: MNRF NRVIS, 2018. Produced by GHD under licence from Ontario Ministry of Natural Resources and Forestry, © Queen's Printer 2019; Ontario Geologic Survey 2000. Quaternary geology, seamless covereage of the Province of Ontario; Ontario Geological Survey, Misc. Release --Data set 14--Revised.

<u>Scale:</u> Refer to Scale Bar Coordinate System NAD 1983 UTM Zone 17N





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Quaternary Geology

FIGURE 9



Source: Source Protection Information Atlas, Ministry of the Environmental, Conservation and Parks, © Queen's Printer for January 31, 2019.

Scale:

Refer to Scale Bar Coordinate System: NAD 1983 UTM Zone 17





Grainboys Holdings Inc. 3469 Con Rd 1, Township of Uxbridge Geotechnical Investigation

Source Water Protection Map

October 2019

11197394-02

FIGURE 10

Appendix A Soil Exploration Data

REFERENCE No.: 11197394-02 ENCLOSURE No.: _ BOREHOLE No.: BH-101 BOREHOLE REPORT **ELEVATION:** 322.0 m Page: _1_ of _1_ **LEGEND** Grainboys Holdings Inc. CLIENT: _ \boxtimes ss - SPLIT SPOON PROJECT: 3469 Concession Road 1, Township of Uxbridge AS - AUGER SAMPLE ST LOGGED BY: E. Wierdsma DATE: 26 August 2019 - SHELBY TUBE ■ CS - CORE SAMPLE DRILLING COMPANY: Strong Soil Search Inc. METHOD: Solid Stem Augers and Split Spoons - WATER LEVEL NOTES: Ground surface elevation interpolated from preliminary site plan, electronic title "19-066 Site wContours.dwg" UTM: +/- 17T 649134E 4921219N m Below Existing Grade Blows per 3 in. / 15 cm Shear test (Cu) Penetration Stratigraphy Type and Number Moisture Content Recovery Sensitivity (S) □ Lab COMMENTS Depth Water content (%) W_p W_i Atterberg limits (%) **DESCRIPTION OF** SOIL AND BEDROCK X "N" Value (blows / 0.3 m) 0.0 % % Ν 10 20 30 40 50 60 70 80 90 ft m **GROUND SURFACE** TOPSOIL (600 mm) Borehole Open 5 **Upon Completion** 7 SS-1 25 10 12 1 10 2 0.6 TILL - Light Brown Silty Sand With Gravel, Moist, 4 Compact 5 1.0 SS-2 50 13 11 8 5 6 SS-3 50 10 10 4 6 2.0 7 - Grading Sand Seam at 5 8 5 SS-4 90 17 12 kО 7 EW,LR JK.GPJ GEOLOGIC.GDT 18/10/1 9 - 3.0 10-3 5 SS-5 100 12 15 10 11-13-4.0 BOREHOLE LOG GEOTECH 11197394-02-FLD-19-10-11-GINT BH LOGS, 14-15-4.6 Grey Clayey Silt, Very Stiff 11 SS-6 $0 \times$ 75 16 23 12 16-- 5.0 ₹ 17-WL - 5.2 m 8/26/2019 (Upon completion 18of drilling) 19-6.0 20-6.1 Trace Sand and Gravel 9 SS-7 90 13 29 0 20 21 6.6 **END OF BOREHOLE** 22

REFERENCE No.: 11197394-02 ENCLOSURE No.: BOREHOLE No.: BH-102 BOREHOLE REPORT **ELEVATION:** 320.8 m Page: _1_ of _1_ **LEGEND** Grainboys Holdings Inc. CLIENT: _ \boxtimes ss - SPLIT SPOON PROJECT: 3469 Concession Road 1, Township of Uxbridge AS - AUGER SAMPLE ST LOGGED BY: E. Wierdsma DATE: 26 August 2019 - SHELBY TUBE ■ CS - CORE SAMPLE DRILLING COMPANY: Strong Soil Search Inc. METHOD: Solid Stem Augers and Split Spoons - WATER LEVEL NOTES: Ground surface elevation interpolated from preliminary site plan, electronic title "19-066 Site wContours.dwg" UTM: +/- 17T 649141E 4920725N m Below Existing Grade Blows per 3 in. / 15 cm Shear test (Cu) Penetration Stratigraphy Type and Number Moisture Content Recovery Sensitivity (S) □ Lab COMMENTS Depth Water content (%) W_p W_i Atterberg limits (%) **DESCRIPTION OF** SOIL AND BEDROCK X "N" Value (blows / 0.3 m) 0.0 % % Ν 10 20 30 40 50 60 70 80 90 ft m **GROUND SURFACE** TOPSOIL (600 mm) 3 Borehole Open **Upon Completion** SS-1 50 13 4 7 1 5 2 0.6 TILL - Light Brown Silty Sand with Gravel, Moist, 2 Loose 4 1.0 SS-2 90 12 8 * 4 4 5 1.5 3 Compact 6 SS-3 100 12 14 8 6 2.0 7 7 8 8 SS-4 90 12 17 þх 9 BOREHOLE LOG GEOTECH 11197394-02-FLD-19-10-11-GINT BH LOGS, EW,LR JK.GPJ GEOLOGIC.GDT 18/10/1 9 - 3.0 10-8 11 SS-5 100 27 11 16 3.4 11-Grey 13-4.0 14-15 4.6 Clayey Silt With Sand, Very 9 Stiff SS-6 0 100 15 26 X 17 16-▼ 5.0 5.0 WL - 5.0 m SAND - Brown Sand, Wet, 8/26/2019 17-Compact (Upon completion of drilling) 18-Groundwater seepage first 19encountered at 5.2 m 6.0 20-6.1 Dense 11 SS-7 100 19 31 þ 20 21 6.6 **END OF BOREHOLE** 22

REFERENCE No.: 11197394-02 ENCLOSURE No.: A-3 BOREHOLE No.: BH-103 BOREHOLE REPORT **ELEVATION:** 320.0 m Page: _1_ of _1_ **LEGEND** Grainboys Holdings Inc. CLIENT: _ \boxtimes ss - SPLIT SPOON PROJECT: 3469 Concession Road 1, Township of Uxbridge AS - AUGER SAMPLE ST LOGGED BY: E. Wierdsma DATE: 26 August 2019 - SHELBY TUBE ■ CS - CORE SAMPLE DRILLING COMPANY: Strong Soil Search Inc. METHOD: Solid Stem Augers and Split Spoons - WATER LEVEL NOTES: Ground surface elevation interpolated from preliminary site plan, electronic title "19-066 Site wContours.dwg" UTM: +/- 17T 648923E 4920861N m Below Existing Grade Blows per 3 in. / 15 cm Shear test (Cu) Penetration Stratigraphy Type and Number Moisture Content Recovery Sensitivity (S) COMMENTS □ Lab Depth Water content (%) W_p W_l Atterberg limits (%) **DESCRIPTION OF** SOIL AND BEDROCK — m — 0.84 m X "N" Value (blows / 0.3 m) RQD CONE 0.0 % % Ν 10 20 30 40 50 60 70 80 90 ft m **GROUND SURFACE** TOPSOIL (600 mm) 4 SS-1 25 16 6 10 1 2 0.6 TILL - Light Brown to Grey Sandy Silt With Clay, Moist, 3 Compact 4 1.0 SS-2 100 18 10 6 4 1.2 Wet 5 1.5 Trace Gravel, Moist Y WL - 1.7 m 5 SS-3 100 16 10 жο 5 09/11/2019 6 2.0 7-2.3 Loose, Wet 8 2 SS-4 100 14 8 NO 6 EW,LR JK.GPJ GEOLOGIC.GDT 18/10/1 9 3.0 10-3.0 3 Grey Sandy Silt With Clay, BH-103, SS-6: Trace Gravel, Loose 1 SS-5 0 6% Gravel 5 15 5 \times 4 11-38% Sand 56% Silt and Clay 41% between 5-75 μm Groundwater 13-2 - 4.0 seepage first SS-6 100 12 7 5 encountered at 3.2 m BOREHOLE LOG GEOTECH 11197394-02-FLD-19-10-11-GINT BH LOGS, 14-Borehole cave in to 3.2 m 15-2 7 SS-7 100 10 9 16-- 5.0 17-50 mm diameter 5.3 3 monitoring well Very Stiff 18installed to 5.2 m SS-8 75 12 12 19-6.0 20-6 10 SS-9 100 12 28 18 21 6.6 **END OF BOREHOLE** 22

REFERENCE No.: 11197394-02 ENCLOSURE No.: A-4 BOREHOLE No.: BH-104 **BOREHOLE REPORT** ELEVATION: ___ 3<u>19.6 m</u> Page: _1_ of _1_ LEGEND Grainboys Holdings Inc. CLIENT: _ \boxtimes ss - SPLIT SPOON PROJECT: 3469 Concession Road 1, Township of Uxbridge AS - AUGER SAMPLE ST LOGGED BY: E. Wierdsma DATE: 26 August 2019 - SHELBY TUBE ■ CS - CORE SAMPLE DRILLING COMPANY: Strong Soil Search Inc. METHOD: Solid Stem Augers and Split Spoons - WATER LEVEL NOTES: Ground surface elevation interpolated from preliminary site plan, electronic title "19-066 Site wContours.dwg" UTM: +/- 17T 648750E 4920942N m Below Existing Grade Blows per 3 in. / 15 cm Shear test (Cu) Penetration Moisture Content Stratigraphy Type and Number Recovery Sensitivity (S) □ Lab **COMMENTS** Depth Water content (%) W_p W_i Atterberg limits (%) **DESCRIPTION OF** SOIL AND BEDROCK X "N" Value (blows / 0.3 m) 0.0 % % Ν 10 20 30 40 50 60 70 80 90 ft m **GROUND SURFACE** TOPSOIL (600 mm) 4 SS-1 75 10 5 9 1 5 0.6 2 TILL - Light Brown Sandy Silt, With Clay, Moist, 3 BH-104, SS-2: Compact 5 7 0% Gravel 1.0 75 SS-2 16 12 XO 31% Sand 69% Silt and Clay 4 53% between 5-75 5 9 SS-3 100 15 16 7 6 2.0 7-2.3 5 Grey, Mottled 8 9 SS-4 100 20 11 11 BOREHOLE LOG GEOTECH 11197394-02-FLD-19-10-11-GINT BH LOGS, EW.LR JK.GPJ GEOLOGIC.GDT 18/10/1 9 - 3.0 10-2 6 SS-5 100 10 12 6 11-3.5 END OF BOREHOLE Borehole Open and Dry Upon Completion 13-4.0 14-15 16-- 5.0 17-18-19-6.0 20-21 22

REFERENCE No.: 11197394-02 ENCLOSURE No.: A-5 BOREHOLE No.: BH-105 BOREHOLE REPORT **ELEVATION:** 321.8 m Page: _1_ of _1_ **LEGEND** Grainboys Holdings Inc. CLIENT: _ \boxtimes ss - SPLIT SPOON PROJECT: 3469 Concession Road 1, Township of Uxbridge AS - AUGER SAMPLE ST LOGGED BY: E. Wierdsma DATE: 26 August 2019 - SHELBY TUBE ■ CS - CORE SAMPLE DRILLING COMPANY: Strong Soil Search Inc. METHOD: Solid Stem Augers and Split Spoons - WATER LEVEL NOTES: Ground surface elevation interpolated from preliminary site plan, electronic title "19-066 Site wContours.dwg" UTM: +/- 17T 648932E 4821260N m Below Existing Grade Blows per 3 in. / 15 cm Shear test (Cu) Penetration Stratigraphy Type and Number Moisture Content Recovery Sensitivity (S) □ Lab COMMENTS Depth Water content (%) Atterberg limits (%) **DESCRIPTION OF** SOIL AND BEDROCK X "N" Value (blows / 0.3 m) 0.0 % % Ν 10 20 30 40 50 60 70 80 90 ft m **GROUND SURFACE** TOPSOIL (800 mm) Borehole Open and 5 Dry Upon SS-1 25 9 6 11 1 Completion 6 2 8.0 1 SILTY SAND - Light Brown 5 Silty Sand, Moist, Compact 1.0 18 SS-2 100 12 13 4 1.5 5 9 TILL - Light Brown Silty 6 Sand With Gravel, Trace SS-3 100 12 0X 7 6 6 Clay, Moist, Compact 2.0 7 4 8 7 SS-4 100 18 11 11 BOREHOLE LOG GEOTECH 11197394-02-FLD-19-10-11-GINT BH LOGS, EW,LR JK.GPJ GEOLOGIC.GDT 18/10/1 9 - 3.0 10-6 BH-105, SS-2: 8 SS-5 100 2% Gravel 11 26 18 11-34% Sand 64% Silt and Clay - Grading Sand Seam at 3.5 m 13-4.0 14-15 12 SS-6 80 12 34 22 16-4.9 Trace Gravel, Dense - 5.0 17-18 19-- 6.0 20-6.2 37 Grey Clayey Silt With Sand, SS-7 100 14 72 0 34 21 Moist, Hard 6.6 **END OF BOREHOLE** 22

REFERENCE No.: 11197394-02 ENCLOSURE No.: A-6 BOREHOLE No.: BH-106 BOREHOLE REPORT ELEVATION: 318.7 m Page: _1_ of _1_ **LEGEND** Grainboys Holdings Inc. CLIENT: _ \boxtimes ss - SPLIT SPOON PROJECT: 3469 Concession Road 1, Township of Uxbridge AS - AUGER SAMPLE ST LOGGED BY: E. Wierdsma DATE: 26 August 2019 - SHELBY TUBE ■ CS - CORE SAMPLE DRILLING COMPANY: Strong Soil Search Inc. METHOD: Solid Stem Augers and Split Spoons - WATER LEVEL NOTES: Ground surface elevation interpolated from preliminary site plan, electronic title "19-066 Site wContours.dwg" UTM: +/- 17T 648843E 4921149N m Below Existing Grade Blows per 3 in. / 15 cm Penetration Index Shear test (Cu) Stratigraphy Type and Number Moisture Content Recovery Sensitivity (S) □ Lab **COMMENTS** Depth Water content (%) W_p W_i Atterberg limits (%) **DESCRIPTION OF** SOIL AND BEDROCK X "N" Value (blows / 0.3 m) 0.0 % % Ν 10 20 30 40 50 60 70 80 90 ft m **GROUND SURFACE** TOPSOIL (800 mm) Borehole Open 4 **Upon Completion** SS-1 100 10 4 8 1 3 2 8.0 2 SILTY SAND - Light Brown 8 Silty Sand, Moist, Compact 1.0 SS-2 20 80 4 0 12 4 1.5 5 TILL - Light Brown Silty 6 Sand With Gravel, Trace SS-3 100 10 13 7 6 Clay, Moist, Compact 2.0 7 5 - Grading Sand Seam at 8 8 2.3 m SS-4 90 18 17 X 9 BOREHOLE LOG GEOTECH 11197394-02-FLD-19-10-11-GINT BH LOGS, EW.LR JK.GPJ GEOLOGIC.GDT 18/10/1 9 3.0 10-3.0 WL - 3.0 m 4 Grey, Wet 8/26/2019 11 SS-5 100 (Upon completion 10 24 13 11of drilling) 3.5 END OF BOREHOLE 13-4.0 14-15 16-- 5.0 17-18-19-6.0 20-21 22

REFERENCE No.: 11197394-02 ENCLOSURE No.: A-7 BOREHOLE No.: BH-107 BOREHOLE REPORT **ELEVATION:** 322.5 m Page: _1_ of _1_ **LEGEND** Grainboys Holdings Inc. CLIENT: _ \boxtimes ss - SPLIT SPOON PROJECT: 3469 Concession Road 1, Township of Uxbridge AS - AUGER SAMPLE LOGGED BY: E. Wierdsma ST DATE: 26 August 2019 - SHELBY TUBE ■ CS - CORE SAMPLE DRILLING COMPANY: Strong Soil Search Inc. METHOD: Solid Stem Augers and Split Spoons - WATER LEVEL NOTES: Ground surface elevation interpolated from preliminary site plan, electronic title "19-066 Site wContours.dwg" UTM: +/- 17T 648706E 4921331N m Below Existing Grade Blows per 3 in. / 15 cm Shear test (Cu) Penetration Stratigraphy Type and Number Moisture Content Recovery Sensitivity (S) **COMMENTS** □ Lab Water content (%) Atterberg limits (%) **DESCRIPTION OF** SOIL AND BEDROCK — m — 0.93 m X "N" Value (blows / 0.3 m) RQD 0.0 % % Ν 10 20 30 40 50 60 70 80 90 ft m **GROUND SURFACE** TOPSOIL (200 mm) Borehole Open and 0.2 9 TILL - Light Brown Sandy Dry Upon SS-1 50 17 26 4 1 Silt, With Gravel, Moist, Completion 12 Compact 2 3 5 1.0 SS-2 10 9 11 6 5 BH-107, SS-3: 11 SS-3 0 0% Gravel 75 16 25 14 6 16% Sand 2.0 84% Silt and Clay 67% between 5-75 7 4 - Grading Sand Seam at 8 7 2.3 m SS-4 100 12 15 bx. 8 EW,LR JK.GPJ GEOLOGIC.GDT 18/10/1 9 3.0 10-3.0 8 Mottled 11 SS-5 100 14 26 0 15 11-3.7 12 Cobbles and Boulders (Inferred from Augers 13-Grinding) - 4.0 BOREHOLE LOG GEOTECH 11197394-02-FLD-19-10-11-GINT BH LOGS, 14-15 4.9 16 SS-6 100 8 37 22 16-Grey, Dense - 5.0 17-WL - 5.3 m 09/11/2019 18-19-6.0 20-50 mm diameter 19 monitoring well SS-7 100 13 41 22 21 installed to 6.1 m **END OF BOREHOLE** 22

REFERENCE No.: 11197394-02 ENCLOSURE No.: A-8 BOREHOLE No.: BH-108 BOREHOLE REPORT **ELEVATION:** 322.8 m Page: _1_ of _1_ LEGEND Grainboys Holdings Inc. CLIENT: _ \boxtimes ss - SPLIT SPOON PROJECT: 3469 Concession Road 1, Township of Uxbridge AS - AUGER SAMPLE ST LOGGED BY: E. Wierdsma DATE: 26 August 2019 - SHELBY TUBE ■ CS - CORE SAMPLE DRILLING COMPANY: Strong Soil Search Inc. METHOD: Solid Stem Augers and Split Spoons - WATER LEVEL NOTES: Ground surface elevation interpolated from preliminary site plan, electronic title "19-066 Site wContours.dwg" UTM: +/- 17T 648690E 4921084N m Below Existing Grade Blows per 3 in. / 15 cm Shear test (Cu) Penetration Moisture Content Stratigraphy Type and Number Recovery Sensitivity (S) □ Lab **COMMENTS** Depth Water content (%) W_p W_i Atterberg limits (%) **DESCRIPTION OF** SOIL AND BEDROCK X "N" Value (blows / 0.3 m) 0.0 % % Ν 10 20 30 40 50 60 70 80 90 ft m **GROUND SURFACE** TOPSOIL (600 mm) Borehole open 6 upon completion SS-1 50 14 7 13 1 8 0.6 2 TILL - Light Brown Silty Sand With Gravel, Compact, 4 Moist 5 1.0 SS-2 100 10 11 6 4 5 6 SS-3 100 17 13 11 6 2.0 7-2.3 5 With Clay, Wet \blacksquare WL - 2.4 m 8 6 SS-4 100 17 11 kο 8/26/2019 5 BOREHOLE LOG GEOTECH 11197394-02-FLD-19-10-11-GINT BH LOGS, EW.LR JK.GPJ GEOLOGIC.GDT 18/10/1 9 - 3.0 10-3 Groundwater 5 seepage first SS-5 100 Ø 14 14 9 encountered at 11-3.5 2.3 m END OF BOREHOLE (Upon completion of drilling) 13-4.0 14-15-16-- 5.0 17-18-19-6.0 20-21 22



Cli	ent:	Soil Description Statuto Statu			nbo	ys F	lol	ding	js In	IC				Lab	no.:				S	S-1	9-7	9						
Pro	oject	t/Site:		34	469 (Cond	cess	ion	Rd	1,	Uxb	oridg	ge ,	Ont	aric)	Proj	ect :	no.:			111	1973	394-	-02			
	Bor	ehole no.:						В	3H-1	03							Samp	ole n	0.:			S	S-6					
	Dep	oth:						3.8	-4.3	m							Enclo	sure	e:			ļ	A-9					
Percent Passing	80 70 60 50 40																					•					0 10 10 10 10 10 10 10 10 10 10 10 10 10	Percent Retained
	0																										90	
	0.	001			0.01						0.1	Dia	mete	er (mr	n)		1				10					1	00	
				Clay	& Sil	t				L		F:			S	and				-		Grav						
									Uı	nifi	ied \$	Fii Soil		ssific	atio		um tem	Coa	arse	FI	ne			oar	se			
				So	il De	scri	ptior	n						G	era\	/el		Saı	nd			CI	ay 8	k Si	lt			
															6			38	3				56	3				
Re	mar	ks:																										
Pe	rforr	Clay & Silt Soil Description marks:						е Ма	ath	urin	1					_	Date	e:		Se	pte	mbe	r 4,	20	19			
Ve	Soil Description emarks:						_					-			 _	Date	e:		Se	eptei	mbe	r 6,	20	19				



Client:			Grai	inboys Ho	oldings Inc	0		Lab	no.:		5	SS-19-	79		
Project	/Site:	346	9 Conces	sion Rd 1	, Uxbridg	e , Onta	ario	Proje	ect no.:		11	197394	4-02		
Bor	ehole no.:			BH-10	4			Samp	ole no.:		5	SS-2			
Dep	oth:			0.8-1.4n	n			Enclo	sure:			A-10			
100 90 80 70 60 40 30 30 20 10															- 0 - 10 - 20 - 30 - 50 - 50 - 70 - 80 - 90
0 0.0	001	0.	01		0.1 Dian	neter (mm	<u> </u>	1		1	0			10	- 100 00
					Diai	neter (mir					Gra			_	
		Clay &	Silt		Fin	ie	Sand Med	lium	Coarse	Fir		Coa	rse	-	
				Un	ified Soil	Classific	ation Sy	stem							
		Soil	Descriptio	on		G	ravel		Sand		С	lay & S	Silt		
							0		31			69			
Remari	ks:														<u> </u>
Perform	ned by:			Zoe Mat	thurin				Date:		Septe	ember 4	1, 20°	19	
Verified	d by:		Č)- <u>_</u>	Sullan			_	Date:		Septe	mber 6	5, 20 ⁻	19	



Cli	ent:		G	rainboys l	Holdings Ind	C.		Lab no.:		SS-19-79			
Pro	oject/Site:		3469 Con	cession R	Road 1, Uxb	ridge, O	N	Project no.:	1	1197394-02			
	Borehole no.	:		BH-1	05			Sample no.:		SS-2			
	Depth:			0.8-1.	2m			Enclosure:		A-11			
Percent Passing	100 90 80 70 60 50 40 30										0 10 20 30 Percent Retained 60 70 80		
	10										90		
	0										100		
	0.001		0.01		0.1 Dia r	meter (mm)		10		100		
		Cla	y & Silt				Sand						
				ι	Fir Unified Soil		Mediu ation Syst		Fine	Coarse	_		
											•		
		So	oil Descrip	otion		G	ravel	Sand		Clay & Silt			
							2	34		Gravel Fine Coarse Clay & Silt 64			
Re	marks:												
Pe	rformed by:			Zoe M	1athurin			Date:	Oct	ober 17, 2019			
Ve	rified by:		<)	Succession			Date:	Oct	tober 18, 2019	<u> </u>		



Client:				Grainb	oys H	loldir	ngs Ir	ıc				Lab	no.:				SS-	19-7	'9			
Project/Sit	te:	3.	469 Cor	ncessio	n Rd	1, U	xbridg	ge , O	ntario	0		Proj	ect n	o.:			11197	7394	-02			
Borehol	le no.:				BH-10	07						Sam	ple no.	:			SS-	3				
Depth:				1	.5-2.0	m						Encl	osure:				A-1	2				
100 90 90 90 90 90 90 90																					0 - 10 - 20 - 30 - 40 - 50 - 70 - 80 - 90	Percent Retained
0.001			0.01			0.	.1 Dia	meter (mm)		1	<u> </u>				10				1	∐ ₁₀₀	0
						Τ			S	Sand	ļ						Fravel					
		Clay	& Silt		11.			ne	ificati		edi		Coar	se	Fi	ne		Coai	rse	1		
					UI.	illed	l Soil	Class	ilicau	OII .	<u>ays</u>	tem										
		So	il Descr	ription					Gra	vel			Sand	i			Clay	& S	ilt			
									0	١			16				,	84				
Remarks:	marks:																					
Performed	prmed by:						in					_	Date:			Se	otemb	er 4	, 20	19		
Verified by	y:			<u></u>		<u></u>	,ce					_	Date:			Se	otemb	er 6	, 20	19_		

REFERENCE No.: 11197394-01 ENCLOSURE No.: ___ A-13 BOREHOLE No.: BH-1 BOREHOLE REPORT **ELEVATION**: Existing Grade Page: _1_ of _1_ LEGEND Grainboys Holdings Inc. CLIENT: _ \boxtimes ss - SPLIT SPOON PROJECT: 3469 Concession Road 1, Township of Uxbridge AS - AUGER SAMPLE ST LOGGED BY: E. Wierdsma DATE: 26 June 2019 - SHELBY TUBE ■ CS - CORE SAMPLE DRILLING COMPANY: Strong Soil Search Inc. METHOD: Solid Stem Augers and Split Spoons - WATER LEVEL NOTES: m Below Existing Grade Blows per 6 in. / 15 cm Penetration Index Shear test (Cu) △ Field Recovery Moisture Content Stratigraphy Type and Number Sensitivity (S) ☐ Lab **COMMENTS** ○ Water content (%)

Atterberg limits (%) **DESCRIPTION OF** SOIL AND BEDROCK — m — 0.90 m X "N" Value (blows / 0.3 m) RQD ft 0.0 % % 10 20 30 40 50 60 70 80 90 m **GROUND SURFACE** SILTY SAND - Dark Brown Dry on 07/04/2019 2 Silty Sand, Moist, Compact 3 SS-1 60 18 5 1 4 Dry on 09/11/2019 0.6 2 TILL - Light Brown Sandy Silt with Gravel and Clay, 3 Moist, Compact 3 1.0 6 SS-2 90 11 9 ϕ 10 5 8 7 7 SS-3 90 14 14 6 10 2.0 9 8 11 11 SS-4 100 22 11 10 9 BOREHOLE LOG GEOTECH 11197394-01-FLD-PHASE 2 BH LOGS EW JK.GPJ GEOLOGIC.GDT 16/10/19 - 3.0 10-6 9 SS-5 9 70 12 18 11-3.7 12 Occasional Cobbles 13-- 4.0 14-15-21 13 SS-6 100 38 0 7 25 16-- 5.0 5.0 END OF BOREHOLE End of Borehole 17open and dry after drilling 18-19-6.0 20-21 22

REFERENCE No.: 11197394-01 ENCLOSURE No.: A-14 BOREHOLE No.: BH-2 **BOREHOLE REPORT** ELEVATION: ___ 322.8 m Page: _1_ of _1_ **LEGEND** Grainboys Holdings Inc. CLIENT: _ \boxtimes ss - SPLIT SPOON PROJECT: 3469 Concession Road 1, Township of Uxbridge AS - AUGER SAMPLE LOGGED BY: E. Wierdsma ST DATE: 26 June 2019 - SHELBY TUBE ■ CS - CORE SAMPLE DRILLING COMPANY: Strong Soil Search Inc. METHOD: Solid Stem Augers and Split Spoons - WATER LEVEL NOTES: Ground surface elevation interpolated from preliminary site plan, electronic title "19-066 Site wContours.dwg" m Below Existing Grade Blows per 3 in. / 15 cm Shear test (Cu) Penetration Stratigraphy Type and Number Moisture Content Recovery Sensitivity (S) □ Lab **COMMENTS** Water content (%) W_p W_i Atterberg limits (%) **DESCRIPTION OF** SOIL AND BEDROCK X "N" Value (blows / 0.3 m) 0.0 % % Ν 10 20 30 40 50 60 70 80 90 ft m **GROUND SURFACE TOPSOIL** - Topsoil with 0.2 15 Rootlets SS-1 60 9 8 23 1 SILTY SAND - Dark Brown 7 Silty Sand, Moist, Compact 2 8.0 TILL - Light Brown Sandy 3 3 Silt with Gravel and Clay, 1.0 4 SS-2 60 22 7 Moist, Loose 3 5 2 3 4 SS-3 75 23 7 6 4 2.0 2 8 2 5 0 SS-4 60 7 25 10 9 BOREHOLE LOG GEOTECH 11197394-01-FLD-PHASE 2 BH LOGS EW JK.GPJ GEOLOGIC.GDT 16/10/19 3.0 10-3.0 10 Mottling 6 SS-5 8 75 10 14 11-13-4.0 14-15 4.6 Wet Borehole open to 9 4.6 m after drilling. 6 16-SS-6 100 11 15 Water up to 4.3 m 5.0 after drilling. 5.2 17-END OF BOREHOLE 18-19-6.0 20 21 22

REFERENCE No.: 11197394-01 ENCLOSURE No.: __ A-15 BOREHOLE No.: BH-3 **BOREHOLE REPORT ELEVATION**: Existing Grade Page: _1_ of _1_ LEGEND Grainboys Holdings Inc. CLIENT: _ \boxtimes ss - SPLIT SPOON PROJECT: 3469 Concession Road 1, Township of Uxbridge AS - AUGER SAMPLE ST LOGGED BY: E. Wierdsma DATE: 26 June 2019 - SHELBY TUBE ■ CS - CORE SAMPLE DRILLING COMPANY: Strong Soil Search Inc. METHOD: Solid Stem Augers and Split Spoons - WATER LEVEL NOTES: m Below Existing Grade Blows per 6 in. / 15 cm Penetration Index Shear test (Cu) △ Field Recovery Moisture Content Stratigraphy Type and Number Sensitivity (S) **COMMENTS** Water content (%)
W_p W_l Atterberg limits (%) □ Lab **DESCRIPTION OF** SOIL AND BEDROCK — m — 1.00 m X "N" Value (blows / 0.3 m) RQD 0.0 % % Ν 10 20 30 40 50 60 70 80 90 ft m **GROUND SURFACE** SILTY SAND - Dark Brown 1 WL - 0.2 m Silty Sand, Moist, Loose 9/11/2019 SS-1 60 29 3 4 1 1 0.6 2 TILL - Light Brown Sandy Water level within Silt with Gravel and Clay, 2 stick-up on Moist, Compact 4 07/04/2019 1.0 4 SS-2 100 15 8 No 6 5 6 9 SS-3 11 100 13 20 6 12 2.0 7 5 8 2.4 9 Grey 11 SS-4 100 15 20 0* 13 9 BOREHOLE LOG GEOTECH 11197394-01-FLD-PHASE 2 BH LOGS EW JK.GPJ GEOLOGIC.GDT 16/10/19 - 3.0 10-AS-5 14 11-4.0 13-4.0 SAND - Grey Fine Sand, Wet, Compact 14-15-4 7 SS-6 100 18 11 kο 16-7 - 5.0 5.0 END OF BOREHOLE 17-Borehole open after drilling 18-19-6.0 20-21 22

REFERENCE No.: 11197394-01 ENCLOSURE No.: ____ A-16 BOREHOLE No.: BH-4 BOREHOLE REPORT **ELEVATION:** Existing Grade Page: _1_ of _1_ LEGEND Grainboys Holdings Inc. CLIENT: _ \boxtimes ss - SPLIT SPOON PROJECT: 3469 Concession Road 1, Township of Uxbridge AS - AUGER SAMPLE LOGGED BY: E. Wierdsma DATE: 26 June 2019 ST - SHELBY TUBE ■ CS - CORE SAMPLE DRILLING COMPANY: Strong Soil Search Inc. METHOD: Solid Stem Augers and Split Spoons ▼ - WATER LEVEL NOTES: m Below Existing Grade Blows per 6 in. / 15 cm Penetration Index Shear test (Cu) △ Field Stratigraphy Type and Number Moisture Content Recovery Sensitivity (S) **COMMENTS** □ Lab ○ Water content (%)

Atterberg limits (%) **DESCRIPTION OF** SOIL AND BEDROCK — m — 0.90 m X "N" Value (blows / 0.3 m) RQD 0.0 % % Ν 10 20 30 40 50 60 70 80 90 ft m **GROUND SURFACE** FILL - Brown Sand and 5 Gravel, Moist, Compact 0.3 SS-1 50 14 4 9 1 SILTY SAND - Grey Silty 4 Sand with Gravel, Moist, 0.6 2 Compact TILL - Light Brown Sandy 2 with Gravel and Clay, Moist, 3 - 1.0 Compact 5 SS-2 40 14 8 NO 5 5 6 9 SS-3 6 60 13 15 6 10 2.0 WL - 2.1 m 7-7/04/2019 2.3 12 Mottling 8 14 20 SS-4 40 12 34 WL - 2.02 m 19 9 09/11/2019 BOREHOLE LOG GEOTECH 11197394-01-FLD-PHASE 2 BH LOGS EW JK.GPJ GEOLOGIC.GDT 16/10/19 - 3.0 10-13 16 3.4 SS-5 23 100 39 11-8 Grading Grey 24 3.7 12 Occasional Cobbles 3.8 19 13-45 - 4.0 SS-6 70 10 77 32 14-15-Borehole open 15 |_{50=5"}|100+ after drilling. SS-7 100 10 Φ 16-- 5.0 5.0 **END OF BOREHOLE** 17-18-19-- 6.0 20-21 22

ENCLOSURE No.: ____ REFERENCE No.: 11197394-01 A-17 BOREHOLE No.: BH-5 **BOREHOLE REPORT ELEVATION:** Existing Grade Page: _1_ of _1_ **LEGEND** Grainboys Holdings Inc. CLIENT: _ \boxtimes ss - SPLIT SPOON PROJECT: 3469 Concession Road 1, Township of Uxbridge AS - AUGER SAMPLE LOGGED BY: E. Wierdsma DATE: 26 June 2019 ST - SHELBY TUBE ■ CS - CORE SAMPLE DRILLING COMPANY: Strong Soil Search Inc. METHOD: Solid Stem Augers and Split Spoons - WATER LEVEL NOTES: m Below Existing Grade Blows per 6 in. / 15 cm Penetration Index Shear test (Cu) △ Field Stratigraphy Recovery Moisture Content Type and Number Sensitivity (S) **COMMENTS** □ Lab Depth ○ Water content (%)

Atterberg limits (%) **DESCRIPTION OF** SOIL AND BEDROCK X "N" Value (blows / 0.3 m) RQD 0.0 % % Ν 10 20 30 40 50 60 70 80 90 ft m **GROUND SURFACE** FILL - Brown Silty Sand with 5 Gravel, Moist, Compact 7 SS-1 60 11 12 1 6 2 3 2 - 1.0 3 SS-2 × 0 60 17 5 4 4 1.2 Dark Brown Sandy Silt 5 1.5 2 with Clay, trace Gravel BH-5, SS-3 2 3% Gravel 4 SS-3 6 90 12 6 40% Sand 6 57% Silt and Clay 2.0 7-2.3 5 TILL - Light Brown Sandy 8 12 Silt with Gravel and Clay, Mottling, Moist, Compact 11 SS-4 100 12 23 b X 17 9 BOREHOLE LOG GEOTECH 11197394-01-FLD-PHASE 2 BH LOGS EW JK.GPJ GEOLOGIC.GDT 16/10/19 - 3.0 10-9 13 SS-5 16 100 29 11-11 3.7 12 END OF BOREHOLE Borehole open after drilling. 13-- 4.0 14-15-16-- 5.0 17-18-19-- 6.0 20-21 22

REFERENCE No.: _____ 11197394-01 ENCLOSURE No.: ____ A-18 BOREHOLE No.: BH-6 **BOREHOLE REPORT ELEVATION**: Existing Grade Page: _1_ of _1_ **LEGEND** Grainboys Holdings Inc. CLIENT: __ \boxtimes ss - SPLIT SPOON PROJECT: 3469 Concession Road 1, Township of Uxbridge AS - AUGER SAMPLE ST LOGGED BY: E. Wierdsma DATE: 26 June 2019 - SHELBY TUBE ■ CS - CORE SAMPLE DRILLING COMPANY: Strong Soil Search Inc. METHOD: Solid Stem Augers and Split Spoons ▼ - WATER LEVEL NOTES: _ m Below Existing Grade Blows per 6 in. / 15 cm Penetration Index Shear test (Cu) △ Field Moisture Content Stratigraphy Type and Number Recovery Sensitivity (S) **COMMENTS** □ Lab ○ Water content (%)

Atterberg limits (%) **DESCRIPTION OF** SOIL AND BEDROCK X "N" Value (blows / 0.3 m) 0.0 % % Ν 10 20 30 40 50 60 70 80 90 ft m **GROUND SURFACE** SILTY SAND - Dark Brown 1 Silty Sand, Loose, Moist SS-1 40 28 2 3 1 3 0.6 2 TILL - Light Brown Sandy Silt with Gravel and Clay, 1 Mottling, Moist, Compact 3 1.0 6 SS-2 90 12 9 æ 7 4 5 3 BH-6, SS-3 8 8% Gravel SS-3 11 90 13 19 6 26% Sand 13 66% Silt and Clay 2.0 7-6 8 2.4 8 **Grading Grey** 10 18 SS-4 100 ЮX 13 10 9 BOREHOLE LOG GEOTECH 11197394-01-FLD-PHASE 2 BH LOGS EW JK.GPJ GEOLOGIC.GDT 16/10/19 - 3.0 10-8 13 SS-5 100 27 0 14 14 11-3.5 END OF BOREHOLE End of Borehole 12 open and dry 13-- 4.0 14-15-16-- 5.0 17-18-19-- 6.0 20-21 22

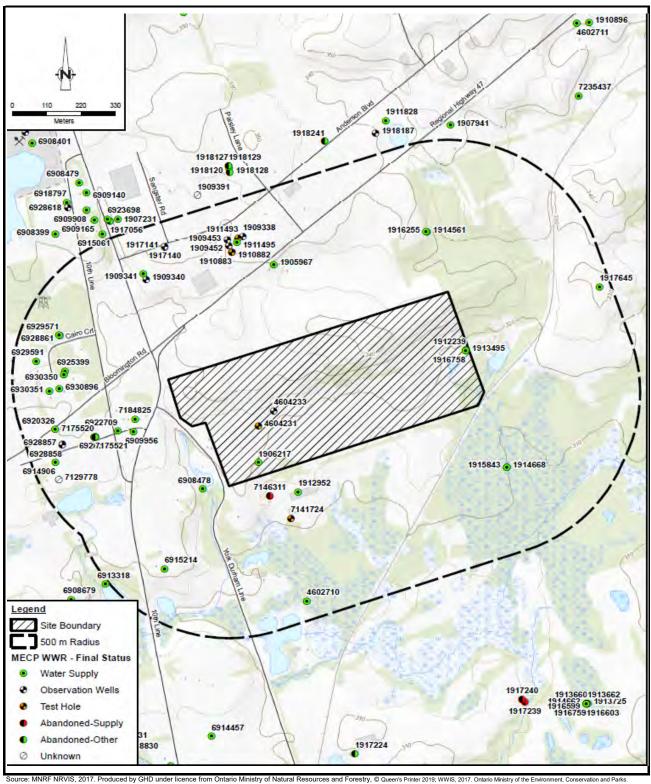


Client:	Grainboys Ho	oldings Inc.	Lab no.:	SS-19	9-52
Project/Site:	3469 Concession Rd. 1,	Township of Uxbridge	Project no.:	111973	94-01
Borehole no.:	BH-5		Sample no.:	SS-3	_
Depth:	1.5-2.1n	n	Enclosure:	A-19	
100 90 80 70 60 40 30 20 10 0.001	0.01 Clay & Silt Ur	0.1 Diameter (mm) Sand Fine Me nified Soil Classification Sy	1 dium Coarse	10 Gravel Fine Co	0 10 20 30 40 40 40 40 40 40 40 40 40 40 40 40 40
		3	40	57	,
Remarks:					
Performed by:	Josh St	ullivan	Date:	July 10,	2019
Verified by:	25	Sullan	Date:	July 10,	2019



Client:	Grainboys Hold	lings Inc.	Lab no.:	SS-19-52	
Project/Site:	3469 Concession Rd 1, To	ownship of Uxbridge	Project no.:	11197394-0	01
Borehole no.:	BH-6		Sample no.:	SS-3	
Depth:	1.5-2.1m		Enclosure:	A-20	
100 90 80 70 90 90 90 90 90 90 90 90 90 90 90 90 90	Clay & Silt	0.1 Diameter (mm) Sand Fine Media ed Soil Classification System Gravel	ım Coarse	10 Gravel Fine Coarse Clay & Silt 66	
Remarks:					
Performed by:	Josh Sulli	van	Date:	July 10, 201	19
Verified by:	J- 5		Date:	July 10, 201	19

Appendix B MECP Well Records and Well Survey



Source: MNKH-NKVIS, 2017. Produced by GHD under licence from Unitano Ministry of Natural Resources and Forestry, © Queen's Printer 2019; WWIS, 2017. Ontario Ministry of the Environment, Conservation and Parl (Accessed January 2017).

Scale:

Refer to Scale Bar Coordinate System: NAD 1989 UTM Zone 17N





Grainboys Holdings Inc. 3469 Con Rd 1, Township of Uxbridge Geotechnical Investigation

MECP Well Inventory Map

11197394-02 October 2019

FIGURE B.1

APPENDIX B.2: WELL SUMMARY - BORED / DUG WELLS

Well Record Summary Project No.: 11197394-02

3469 Concession Road 1, Township of Uxbridge, Ontario

MECP	Well	Wate	r Found	Stati	c Level	Pump	Rate	Well [Depth	Comments
Well No.	Use	Feet	Metres	Feet	Metres	lgpm	L/min	Feet	Metres	
1912952	Domestic	27	8.2	2	0.6	10	37.9	30	9.1	clay to 27', sand to 30'
6908478	Domestic	25	7.6	15	4.6	2	7.6	29	8.8	Topsoil to 1', sandy clay to 22', gravel to 25', clay to 29'

Number of wells = 2

	Wate	r Found	Stati	c Level	Pump	Rate	Well	Depth
	Feet	Metres	Feet	Metres	lgpm	L/min	Feet	Metres
AVERAGE	26.0	7.9	8.5	2.6	6.0	22.7	29.5	9.0
MAXIMUM	27.0	8.2	15.0	4.6	10.0	37.9	30.0	9.1
MINIMUM	25.0	7.6	2.0	0.6	2.0	7.6	29.0	8.8

APPENDIX B.3: WELL SUMMARY - DRILLED OVERBURDEN WELLS

Well Record Summary Project No.: 11197394-02 3469 Concession Road 1, Township of Uxbridge, Ontario

MECP	Well	Water	Found	Stati	c Level	Tes	t Rate	Well	Depth	Comments
Well No.	Use	Feet	Metres	Feet	Metres	Igpm	L/min	Feet	Metres	Commond
1905967	Livestock	60.0	18.3	58.0	17.7	6.0	22.7	78.0	23.8	Clay with stones to 44', sand to 78'
1906217	Commercial	79.0	24.1	79.0	24.1	8.0	30.3	92.0	28.0	Clay and sand to 12', sand and silt to 29', clay till to 36', sand ans stones to 92'
190938	Industrial	156.0	47.5	-		-		214.0	65.2	sandy clay to 23', sand and stones to 137', sabdy clay to 143', sand to 156', stones with sand to 214'
1909340	Commercial	209.0	63.7	80.0	24.4	25.0	94.6	222.0	67.7	Sand and silt to 9', clay and sand to 12', sand and stones to 119', clay to 161', sand and stones to 222'
1909341	Commercial	201.0	61.3	80.0	24.4	18.0	68.1	222.0	67.7	Sand and silt to 9', clay and sand to 12', sand and stones to 119', clay to 161', sand and stones to 222'
1909452	Not Used	196.0	59.7	1		10.0	37.9	214.0	65.2	sand with stones and clay to 137', clay and tones to 156', stones with sand to 214'
1909453	Not Used	196.0	59.7			10.0	37.9	215.0	65.5	sand with stones and clay to 137', clay and tones to 156', stones with sand to 215'
1910882	Industrial	170.0	51.8	69.0	21.0	535.0	2025.0	197.0	60.0	Topsoil to 1', clay to 33', silty gravel to 112', gravel to 118', clay to 182', sand stones to 192', gravel to 197'
1911495	Industrial	153.0	46.6	70.0	21.3	722.0	2732.8	200.0	61.0	clay and stones to 31', gravel to 44', sand and stones to 84', gravel to 194', clay and stones to 198', silty gravel to 200'
1912239	Domestic	115.0	35.1	33.0	10.1	15.0	56.8	118.0	36.0	clay to 15', sand to 60', gravel to 67', sand to 118'
1913495	Domestic	114.0	34.7	60.0	18.3	9.0	34.1	118.0	36.0	Topsoil to 2', clay with sand and stones to 52', sand and gravel to 58', silty clay to 95', silt to 114', sand to 118'
1914668	Domestic	81.0	24.7	6.0	1.8	20.0	75.7	88.0	26.8	clay to 81', sand to 88'
1915843	Domestic	156.0	47.5	40.0	12.2	15.0	56.8	158.0	48.2	Topsoil to 2', clay till to 75', clayey silt to 154', clay to 156', sand to 158'
1916255	Domestic	89.0	27.1	50.0	15.2	10.0	37.9	89.0	27.1	clayey sand to 40', sand to 89'
1916758	Domestic	146.0	44.5	37.0	11.3	12.0	45.4	154.0	46.9	sandy clay to 28', sand to 3', sandy clay to 48', silty sand with stones to 96', clay to 133', sand and stones to 154'
4602710	Domestic	82.0	25.0	17.0	5.2	3.0	11.4	82.0	25.0	clay and stones to 18', clay to 42', sand and clay to 70', sand to 82'
4604231	Not Used	15.0	4.6					140.0	42.7	well abandonded due to artisian conditions
4604233	Not Used	34.0	10.4	2.0	0.6			305.0	93.0	Clay to 11', sand to 34', clay to 253', gravely clay to 305'
6909956	Domestic	39.0	11.9	40.0	12.2	8.0	30.3	50.0	15.2	clay to 18', sandy gravel to 39', sand to 50'
6914906	Domestic	40.0	12.2	-	-	5.0	18.9	60.0	18.3	clay to 15', gravel to 30', sand to 60'
6915214	Domestic	100.0	30.5	16.0	4.9	5.0	18.9	138.0	42.1	dug well to 30', sand to 35', clayey gravel to 42', sandy clay to 130', sand to 138'
6920326	Domestic	80.0	24.4	54.0	16.5	15.0	56.8	93.0	28.3	clay to 6', sand to 32', clay to 80', sand to 93'
6922709	Domestic	51.0	15.5	30.0	9.1	10.0	37.9	64.0	19.5	sandy clay to 18', sand to 32', gravel to 37', sand to 64'
6925399	Domestic	100.0	30.5	55.0	16.8	10.0	37.9	100.0	30.5	Topsoil to 1', clay to 21', gravel to 24', sandy clay to 50', gravel to 58', sandy clay to 74', silt to 100', sand to 108'
6928857	Not Used			-	-	-	-	137.0	41.8	well not used
6928858	Not Used		1	-	-	-	-	65.0	19.8	Topsoil to 2', silty clay and gravel to 38', sand and gravel to 65'
6928861	Unknown	-	-	-		452.0	1710.8	60.0	18.3	Gravel to 1', silt sand to 3', silty sand and gravel to 50', gravel to 60'
6929571	Unknown		-	-		618.0	2339.1	65.0	19.8	gravel to 3', topsoil to 5', silty clay to 15', silty sand and gravel to 53', gravel to 65'
6929591	Domestic	170.0	51.8	-		10.0	37.9	170.0	51.8	sand to 10', clay to 25', sand and gravel to 170'
6930350	Domestic	111.0	33.8	-		12.0	45.4	115.0	35.1	Topsoil to 1', silty sand to 24', clay to 33', sand and gravel to 115'
6930351	Domestic	111.0	33.8	-		12.0	45.4	115.0	35.1	Topsoil to 1', silty sand to 24', clay to 33', sand and gravel to 115'
6930896	Domestic	112.0	34.1			12.0	45.4	116.0	35.4	Topsoil to 1', silty sand to 24', clay to 33', sand and gravel to 116'
7129778	Domestic	45.0	13.7	40.0	12.2	7.0	26.5	45.0	13.7	clay to 32', gravely sand to 45'
6930350	Domestic	111.0	33.8	-		12.0	45.4	115.0	35.1	Topsoil to 1', silty sand to 24', clay to 33', sand and gravel to 115'
7184825	Domestic	36.0	8.8	34.0	10.4	12.0	45.4	42.0	12.8	sand and clay to 4', clay and gravel to 21', gravel and sand to 36', sand to 42'

Number of wells: 35

	Water	Found	Stati	c Level	Pump	Rates	Well I	Depth
	Feet	Metres	Feet	Metres	gpm	L/min	Feet	Metres
AVERAGE	108.3	32.9	45.2	13.8	87.3	330.3	127.3	38.8
MAXIMUM	209.0	63.7	80.0	24.4	722.0	2732.8	305.0	93.0
MINIMUM	15.0	4.6	2.0	0.6	3.0	11.4	42.0	12.8

APPENDIX B.4: WELL SUMMARY - DRILLED OVERBURDEN WELLS

Well Record Summary
Project No.: 11197394-02
3469 Concession Road 1, Township of Uxbridge, Ontario

MECP	Well	Wate	r Found	Stati	c Level	Tes	t Rate	Well	Depth	Comments
Well No.	Use	Feet	Metres	Feet	Metres	Igpm	L/min	Feet	Metres	
1910883	Test Hole							240.0	73.2	Topsoil to 1', clay to 33', silty gravel to 112', gravel to 118', clay to 182', sand stones to 192', gravel to 197'
1911493	Test Hole							225.0		Clay with stones to 31', gravel to 44', sand and stones to 84', gravel to 194', clay and stones to 198', silty gravel to 204', clay and silt to 225'
1917140	Abandonded		-	-		-		222.0	67.7	Abandonment record
1917141	Abandonded			-	-	-		122.0	37.2	Abandonment record
1917645	Abandonded							162.0	49.4	Abandonment record
6928859	Abandonded				-			529.0	161.2	Abandonment record
7141724	Monitoring Well		-					28.0	8.5	Fill to 4', clay to 28'
7146311	Abandonded							98.0	29.9	Abandonment record

Number of wells: 8

	Water	Found	Stati	c Level	Pump	Rates	Well I	Depth
	Feet	Metres	Feet	Metres	gpm	L/min	Feet	Metres
AVERAGE	0.0	0.0	0.0	0.0	0.0	0.0	203.3	62.0
MAXIMUM	0.0	0.0	0.0	0.0	0.0	0.0	529.0	161.2
MINIMUM	0.0	0.0	0.0	0.0	0.0	0.0	28.0	8.5



MINISTRY OF THE ENVIRONMENT

The Ontario Water Resources Act

WATER WELL RECORD 3103

Ontario		SPACES PROVIDED RECT BOX WHERE APPLICABLE	\bigcirc	19059	67	0/2 64	5 N	101	
COUNTY OR DISTRICT	E. CHECK [2] COR	TOWNSHIP, BOROUGH, CIT	TY, TOWN/VILLAGE		CON., BLOCK, TRA	CT, SURVEY, ETC.		LOT 23 14	
Yurh	A.h1	$-\frac{1}{2}$	ridge	1 00		DATE COM	APLETED O	9: 00	
		XXX	<u> </u>	TOLLTY V	RC. BASIN CODE	DAY	<u> мое</u>	71 YR. 20	
		3.73	000	5 /JO		<u> </u>	<u> 1 - î</u>	47	
LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS) DEPTH - FEET									
GENERAL COLOUR	COMMON MATERIAL				GENERAL DESCRIPTION			- FEET TO	
Prown	Promi cay with stones						0	14	
Bourn	Chary gra	rel	1				14	15	
Brown							12	44	
Krown	sand				····		144	Z 🥸	
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32		32		45	54-1-1	با لىلىل		لہا لہا	
WATER FRIEND	R RECORD	CASING &	OPEN HOLE	RECORD	SIZE(S) OF OPENING (SLOT NO.)	31-33	0.5,50	05 FEET	
10-13	ŘESH 31 □ SUĽPHUR NA	DIAM MATERIAL INCHES	THICKNESS INCHES	FROM TO 13-16	MATERIAL AND TYP	PE .	DEPTH TO YOP OF SCREEN	41-44 BO	
0060 2 SALTY 4 MINERAL 10-11 1 SIREL 12 12 SALTY A SULPHUR 19 2 SULPHUR 19 3 CONCRETE 12 COREN HOLE					-5/A-)A-76	5	0073	FEET	
2 SALTY 4 MINERAL 4 OPEN HOLE 20-23 1 FRESH 3 SULPHUR 24 20-24 1 GRESH 3 SULPHUR 24				20-23	DEPTH SET AT - FEET MATERIAL AND TYPE CEMENT GROUT.				
2 GALTY 4 MINERAL 2 GALVANIZED 3 CONCRETE					FROM TO LEAD PACKER. ETC.;				
2 SALTY 4 MINERAL 24-25 STEEL 26				27-30	18-21 22	-25			
30-33 1 FRESH 3 SULPHUR 34 0					26-29 30	-33 80			
PUMPING TEST METHOD	. / /				LOCATIO	ON OF WEL	L		
1 PUMP 2 BAILER DO 06 GPM D 19-18 3 17-18 17					IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND				
LEYEL END OF WATER LEYELS DURING 2 RECOVERY LOT LINE. INDICATE NORTH BY ARROW. 10-21 22-24 IS MINUTES 3D MINUTES 45 MINUTES 60 MINUTES 4,							[
1 05 8 FEET									
THE FLOWING SET THE FEET FEET FEET FEET FEET FEET FEE									
RECOMMENDED PUMP TYPE RECOMMENDED 43.45 RECOMMENDED PUMPING PUMPING GPM SETTING 072 FEET RATE OF GPM									
50-53		CIFIC CAPACITY	1 3/ 9	加州			<u> </u>		
FINAL	C44 (C44)	well born!			74				
STATUS OF WELL	3 ☐ TEST HOLE 4 ☐ RECHARGE WELL	7 🗆 UNFINISHED		3 3					
55-50	1 DOMESTIC	S COMMERCIAL MUNICIPAL		12	_			77	
USE 02	3 IRREGATION 4 INDUSTRIAL	7 D PUBLIC SUPPLY 6 COOLING OR AIR COND			on the control of the		-		
57	OTHER	P 🗆 NO	T USED				:	İ	
METHOD /	1 DCABLE TOOL 2 DROTARY (CONVENT 3 DROTARY (REVERSE)								
DRILLING	4 ROTARY (AIR) 8 AIR PERCUSSION	1 DRIVING	÷	DRILLERS REMAR	ĸs.			İ	
NAME OF WELL CON	TRACTOR	Li	CENCE NUMBER	DATA	/ 54 CONTRACTOR 18	10-62 DATA-RECEIVES	200	63-68 80	
ADDRESS	$\frac{(r-D, c)}{(r-D)}$	$h \in F \subset \mathbb{R}$	22/8	SOURCE OF INSPI	-	ECTOR	038		
NAME OF DRILLER O	PHONER THE	e Bex 6 E	CENCE NUMBER	S REMARKS:					
No Jawa	17 Chile	1	1218				Р	75	
SIGNATURE OF COM	J. delin	SUBMISSION DATE	24, 1 VR. 81	OFFICE	early or	12/600	w	ין [
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Ontario		SPACES PROVIDED	1	9062	17	19012	CON		101
COUNTY OR DISTRICT		TOWNSHIP BOROUGH, CITY, TOWN, VILL	AGE .		CON	BLOCK TRACT, SURVEY	. ETC	O/X	25-27
		Stouth	ille	,			DATE COMPLETED	09"	81
	مستنبقت ستنسوب بر	874350	5	1025	5	ASSIN CODE	, , , , , ,	## I	IV 1
	L(OG OF OVERBURDEN AND BE	25	K MATERIA	30	INSTRUCTIONS)			41
GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS			GENE	RAL DESCRIPTION	, , , , , , , , , , , , , , , , , , ,	DEPTH - FEET	ro ro
Braun	clay	sand 1	t					\ /	2
Brown	oand	stoner silt	2/				1:	2 2	9
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Wey_	sand	otones & sil	<u> </u>			,	8	4 92	<u> </u>
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	260528 1002 2221204 1	96281206 1003630528	1016-10	628 /	K 06	0042228 120	14 00842	281262	, <u>/</u>
1 2 10	TER RECORD	CASING & OPEN HO	LL L	CORD	Size	SHOF OPENING 3	1 DIAMETER	75 34-38 LENGTH	39:40
WATER FOUND AT - FEET	KIND OF WATER	INSIDE WALL. DIAM MATERIAL THICKNESS	DEP	TH - FEET		RIAL AND TYPE	960	NCHES 43	FEET
79"	FRESH 7 SULPHUR 14 SALTY 4 MINERAL	10-11 1 STEEL 12	FROM	10	SCR	رگ الله	OF SCE	77	-44 30 EET
] FRESH 3 SULPHUR ¹⁹] SALTY 4 MINERAL	64 CONCRETE 188	. 9	079	61	PLUGGING	& SEALING		
20-23) FRESH ³ 🗍 SULPHUR ²⁴	17-18 STEEL 19 CALVANIZED		20-23	DEPTH FROM	SET AT - FEET	TERIAL AND TYPE	CEMENT GROU LEAD PACKER ET)T TC 1
L	SALTY 4 MINERAL FRESH 3 SULPHUR 29	CONCRETE OPEN HOLE			10	D-13 H4-17			
2 🗆	SALTY 4 MINERAL	24-25 1		27-30	11	3-21 22-25			
	FRESH 3 SULPHUR 34 AC SALTY 4 MINERAL	3 GONCRETE 4 GOPEN HOLE			26	-29 10-33 80			
PUMPING TEST MET	RO PUMPING RATE	/	7-18		L	OCATION OF	WELL		
STATIC LEVEL	WATER LEVEL 25 END OF WATER LE	VELS DURING 1 PUMPING	IINS	IN DIAG		OW SHOW DISTANCES		ROAD AND	
+02"	PUMPING 22-24 IS MINUTES (21-2)	2 D RECOVERY 13 MINUTES 45 MINUTES 50 MINUT 17 9 29-31 9 32-34 9 93	Es	/		T HOME BY ARK	J	1	7
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RECOMMENDED PUN	PUNP	7 PUMPING X	6-49 GPM	ollo		i			
50-53					1	11.		<u>, </u>	•
FINAL	WATER SUPPLY DESERVATION WELL	ABANDONED, INSUFFICIENT SUPP B	LY	makh	Jour	d Jene 1023 m	4	2/00'	·
STATUS OF WELL	TEST HOLE RECHARGE WELL	7 □ UAFINISHED		makh	g Maso i	Pickering		\bigvee	
i	DOMESTIC 2 STOCK	5 M COMMERCIAL 6 MUNICIPAL		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		1	,	· ^	
WATER USE 0.		7 D PUBLIC SUPPLY • COOLING OR AIR CONDITIONING			ř	110	0	3 &)	
	OTHER	• ☐ NOT USED	4		F		e//m -	^	
METHOD	CABLE TOOL						1/ki -) _	
OF DRILLING	P GROTARY (REVERSE) A GROTARY (AIR) B GROTARY (AIR)	■ □ JETTING 2 □ DRIVING			1				
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5 Mils	a states he	elg J to 5459	ONIC	SOURCE		5459	ACCEPTED.) <u>85</u>	62 GO
ACTOR ACTOR	+ Stoulhui	llotho	ساا	ı (INSPECTOR			$_{\lambda}$ \rceil
NAME OF STILL	and the	LICENCE HUMBER	CE US						
S SIGNATURE OF CO	ONTRACTOR .	SUBMISSION DATE	OFFICE	100	on a	06/1/8	CSS.S 8		
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Ontario	_	SPACES PROVIDED RECT BOX WHERE APPLICABLE 1 2	19	09338	22 23 24
COUNTY OR DISTRICT	2. Creek (2. Cox	TOWNSHIP, BOROUGH, CITY, TOWN, VILL	GE	CON BLOCK TRACT, SURVEY ETC	13"
OWNER (SURNAME FIL	RST)	T. ADDRESS	01.	FFUILLE DAY 25	4" 88
420	CONSILL EASTING	CION RAFF Z	3/000	ATION RC AASIN CODE	01 18
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	L	OG OF OVERBURDEN AND BE	DROCK MA	ATERIALS (SEE INSTRUCTIONS)	DEPTH · FEET
GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS		GENERAL DESCRIPTION	FRON TO
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41 W/	ATER RECORD	51 CASING & OPEN H	OLE RECO	RD SIZE STOF OF OPENING 31-33 DIAME	6 20
WATER FOUND	KIND OF WATER	INSIDE WALL DIAM MATERIAL FA:CRNESS INCHES INCHES	DEPTH -	MATERIAL AND TYPE	DEPTH TO TOP 41-44 34
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15-18 1	FRESH 3 SULPHUR	2 GALVANIZED 3 GEONGRETE 4 GOPEN HOLE 5 DPLASTIC		61 PLUGGING & SEAL	ING RECORD
L	FRESH 3 DSULPHUR 2	17-18 1 USTEEL 2 UGALVANIZED		DEPTH SET AT - FEET MATERIAL AND	TYPE (CEMENT GROUT LEAD PACKER ETC.)
2	SALTY 6 GAS	3 CONCRETE 4 OPEN HOLE 5 OPLASTIC		10-13	
1 ,	FRESH 3 SULPHUR 4 MINERALS GGAS	ZA-25 1 STEEL 26 26 26 26 26 26 26 26 26 26 26 26 26		27-30 18-21 22-25	<u> </u>
	SALTY 6 GAS	4 80 3 □ CONCRETE 4 □ OPEN HOLE 5 □ PLASTIC		26-29 30-33 60	
PUMPING TEST I	METHOA 10 PUMPING I			LOCATION OF WEL	L
71 1 D PUMP		GPM 4 19-16 3 C	2 1745 MINS	IN DIAGRAM BELOW SHOW DISTANCES OF WELL	FROM ROAD AND
STATIC LEVEL	WATER LEVEL END OF WATE PUMPING -ET E2-24 IS MINU	R LEVELS DURING RECOVERY	NUTES 1	LOT LINE INDICATE NORTH BY ARROW.	
153	189 189	TES 30 MINUTES 78-20 / 8 921-24 / 8 951-24 / 8 951-24	79.27)	
Z IF FLOWING.	EET FEET SO-47 PUMP INT	ARE SET AT WATER AT END OF TEST			
IF FLOWING. GIVE RATE RECOMMENDED	GPM PUMP TYPE RECOMME	D FEET 1 CLEAR 1 C	LOUDY	CON	
☐ SHALL	OW DEEP SETTING	PUMPING FEET RATE	GPM		
\$0-53			== {	_	
FINAL STATUS	WATER SUPPLY OBSERVATION	WELL # ABANDONED POOR QUALITY	UPPLY	LoT13	
OF WELL	L 4 - RECHARGE WE	7 UNFINISHED LL 9 DEWATERING		1	
	1 DOMESTIC	S COMMERCIAL MUNICIPAL		3	400'
WATER	3 IRRIGATION 4 INDUSTRIAL	7 DEBLIC SUPPLY • COOLING OR AIR CONDITIONING	'	3 M'	X 400'
	O OTHER	• □ NOT USED	-	47 HWC	-
METHO	1 V 10 11 11			47 400	07770
OF CONSTRUC	TION 4 B ROTARY (REVI	9 DRIVING			37772
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0.1.//	an Mater	Welle Ha 545	ONLY	5459 SEP	2 7 1988
D X	2101	Lullo Och	11 11	DATE OF INSPECTION INSPECTOR	
H HAME NEW	WELL ECHNIS AN	WELL TECHN	ICIAN'S UI	AEMARKS	
CONTRACTOR	OF TECHNICIAN/CONTRACT	SUBMISSION DATE	OFFICE		_
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MINIS	TRY OF THE ENVI	RONMENT COPY			Sami No. 9990 (117 00) (Onw

Ministry of the Environment

The Ontario Water Resources Act

WATER WELL RECORD

Ontario	1. PRINT ONLY IN S	SPACES PROVIDED ECT BOX WHERE APPLICABLE 1 2	19093	40 [90,12]	15 22 23 24
COUNTY OF DISTRICT	7	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE		CON . BLOCK TRACT, SURVEY	ETC LOT 25-27
OWNER (SURNAME FIRS	an and	ADDRESS OF TO	W-01.	·	DATE COMPLETED 78-53
AYS	ZONE EASTING	NORTHING R	suffer	RC BASIN CODE	OAY MO YRU
21	ZONE EASTING	17 18 24	26	30 31	
	LC	OG OF OVERBURDEN AND BEDR	OCK MATERIA	LS (SEE INSTRUCTIONS)	
GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS		GENERAL DESCRIPTION	DEPTH - FEET FROM TO
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	TER RECORD	51 CASING & OPEN HOLI			DIAMETER 94-38 LENGTH 39-40
WATER FOUND AT - FEET	KIND OF WATER	INSIDE DIAM MATERIAL THICKNESS INCHES INCHES	DEPTH - FEET FRUM TO	MATERIAL AND TYPE	DEPTH TO TOP 41-44 30
1209" : 2	y FRESH 3 □ SULPHUR " SALTY 4 □ MINERAL	JOSH 1 DYSTEEL 12	5 209	<u>s</u>	J / FEET
	FRESH ³ SULPHUR ¹⁹ SALTY ⁴ MINERAL	CS CONCRETE / DD	1	1 20031110	& SEALING RECORD
20-23 1	FRESH ³ SULPHUR ²⁴	17-18 STEEL 19 E GALVANIZED	70.23	FROM TO	TERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)
ZS-28 1 [SALTY 4 MINERAL FRESH 3 SULPHUR 29	3 CONCRETE 4 OPEN HOLE 26	27.30	10-13 14-17	
* [] ŞALTY 4	Z4-Z5 1 STEEL Z6 2 GALVANIZED 3 CONCRETE		26-29 30-53 80	
2 0	SALTY 4 MINERAL	■ □ OPEN HOLE			
71 PUMPING TEST ME	10 PUNPING RAT	15 4 15-16 2 (No.		LOCATION O	F WELL
STATIC LEVEL	WATER LEVEL 25 END OF WATER	GPM HOURS HING LEVELS DURING 2 RECOVERY	IN D	IAGRAM BELOW SHOW DISTANCES LINE INDICATE NORTH BY AR	DUM MUNICIPAL PROPERTY OF THE
TEST & C	PUMPING 22:24 IS MINUTES		7,	9	CANI
	SE-41 PUMP INTAKE		iτ	<i>"</i> ")	
IF FLOWING. GIVE RATE RECOMMENDED PU	GPM 2	OF FEET , CLEAR 2 CLOUDS		T.	0 Lol 13
RECOMMENDED PU	MP TYPE RECOMMENDS PUMP SETTING	ED 43-45 RECOMMENDED 46-4 PUMPING FEET RATE GP	11	2	
30-53			<u> </u>	A C	CON1 LOT 13 Charaction ell # 2
FINAL	WATER SUPPLY OBSERVATION WE	S ABANDONED, INSUFFICIENT SUPPLY		7 770	ell#d
STATUS OF WELL	3 TEST HOLE 4 RECHARGE WELL	7 UNFINISHED		3	
	3-56 DOMESTIC	5 COMMERCIAL	1	0	
WATER	S STOCK S RRIGATION INDUSTRIAL	6 MUNICIPAL 7 PUBLIC SUPPLY 8 COOLING OR AIR CONDITIONING			-V 47
USE	OTHER	9 NOT USED		+/1	NY 47
METHOD	CABLE TOOL ROTARY (CONVE	6 BORING NTIONAL) 7 DIAMOND			
OF DRILLING	P ROTARY (REVERS	SE) # 🔲 JETTING 9 🗎 DRIVING		·	
	5 AIR PERCUSSION	4 4-	DRILLERS REMA		DATE RECEIVED 63-66 RG
	contractor Later 9	Welle Lift 5459	DATE OF INS	5459	SEP 2 2 1988
ADDRESS A	0 /2 //	W. Va Ond	DATE OF INS	PECTION INSPECTOR	
MANE OF DRILL	LER OR BORES	LICENCE NUMBER	NE MAPKS		
ADDRESS NAME OF ORIGINAL OF STREET	CONTRACTOR	SUBMISSION DATE	OFFICE		
Will	lian W	CRON DAY NO. YR.		<u></u>	C S S - S - S - S - S - S - S - S - S -
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The Ontario Water Resources Act

WATER WELL RECORD

Ontario Envi	ironment	SPACES PROVIDED 11	1909341 1180121 11
COUNTY OR DISTRICT		TOWNSHIP, BOROUGH, CITY TOWN, VILLAGE	CON , BLOCK TRACT, SURVEY, ETC. LOT
1116	HAM	BRIDGE	E CON 1 DATE COMPLETED COS 53
		RAHA	Sloughille DAY 12 MO YE
1 2	M 10 12	HING R	RC BLEVATION RC BASIN CODE II III IV
	L(OG OF OVERBURDEN AND BEDR	OCK MATERIALS (SEE INSTRUCTIONS)
GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION DEPTH - FEET FROM TO
Brown	agent	eilt	0 9
B in come	_do	agray ,	7 /2
£ 2.50.65	sayl	stores failty	1/2 //
1 on	elan _	sarry C	
E an	- elay	oito	161 20
To som	<u>pany</u>	Low	20120
1) 34	sunt	none	
31			<u> </u>
32 WAT	ER RECORD	51 CASING & OPEN HOLE	43 54 55 75 75 75 75 75 75 75 75 75 75 75 75
WATER FOUND AT - FEET	KIND OF WATER	INSIDE WALL THICKNESS	DEPTH - FEET INCHES
	FRESH 3 SULPHUR 14 SALTY 4 MINERAL	INCHES INCHES F	
75-68 1 🗆	FRESH 3 SULPHUR 19	GALVANIZED / SS	61 PLUGGING & SEALING RECORD
20.23	FRESH 3 SULPHUR 24	17-18 STEEL 19 GALVANIZED	DEPTH SET AT - FEET MATERIAL AND TYPE (CEMENT GROUT FROM TO LEAD PACKER, ETC.
25-26 1	FRESH 3 🗆 SULPHUR 29	3 CONCRETE 4 OPEN HOLE 24-25 1 STEEL 26	10-13 M-17 27-30 18-21 22-25
30-33	FRESH 3 SULPHUR 34 10	2 GALVANIZED 3 CONCRETE	26.29 30.33 80
PUMPING TEST MATT	SALTY 4 MINERAL 10 PUMPING RATE	4 ☐ OPEN HOLE	
71 PUMP	BAILER	GPM	LOCATION OF WELL
STATIC LEVEL	PUMP:NG	1	IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW.
80	Company of the second of the s	Q 09/ J 0 /~~ Q 0 9//	
SECOMMENDED PUN	38-41 PUMP INTAKE	WATER AT END OF TEST 42	
RECOMMENDED PUN	P TYPE RECOMMENDED	43-45 RECOMMENDED 46-89 PUMPING	11 mell #2
SHALLOW 50-53	D DEEP SETTING	FEET RATE GPM	2 2 2 1
FINAL	1 WATER SUPPLY 2 W JOBSERVATION WEL	S ABANDONED, INSUFFICIENT SUPPLY L B ABANDONED, POOR QUALITY	# Well #2 CON 1 LOT 13
STATUS OF WELL	3 TEST HOLE 4 RECHARGE WELL	UNFINISHED	S 60T13
55-	1 DOMESTIC 2 STOCK	S COMMERCIAL MUNICIPAL	0
WATER USE	3 IRRIGATION 4 INDUSTRIAL	7 PUBLIC SUPPLY COOLING OR AIR CONDITIONING	1
-5	OTHER	• □ NOT USEO • □ BORING	HWY 47
METHOD OF	2 N ROTARY (CONVENT 3 NOTARY (REVERSE	IONAL) 7 🖟 DIAMOND 3 🗎 JETTING	
DRILLING	4 ROTARY (AIR) 5 AIR PERCUSSION	9 DRIVING	DRILLERS REMARKS:
NAME OF WELL CO	ONTRACTOR O	Vipillo III LICENCE NUMBERS	Source Se CONTRACTOR 53-62 DATE RECEIVED 2 2 1988 63.6
ADMRESS HAME OF CONTROL OF CONTRO	VF Mil	10 O. h	SOURCE 5459 SEP 22 1988
HATHE OF DATILES	TOR BORE	LICENCE NUMBER	S PEMARKS
SIGNATURE OF CO	DITRACTOR /).	SUBMISSION DATE	OFFICE C
Wille	iam Wi	ADA DAY MO YR	FORM NO. 0506—4—77 FG
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Min	istry			The	Ontario \	Water Resource	es Act	
of th	ne ,		VA/AT	FER	WI	ELL	RECC	ORD
Env.	in mentiation	·井丿				MUNICIPA	CON.	
Ontario (1, PRINT ONLY IN	SPACES PROVIDED	11	1909	452	[1,9,0,1,2		1 22 23 74
COUNTY OR DISTRICT	2. CHECK 🗵 CORR	TOWNSHIP, BOROUGH		_	CON	BLOCK TRACT, SURVEY	ETC	LOT 25-27
Duk	HAM	UXB	RIDGE	<u> </u>		CONI		13
OWNER (SURNAME FI	RST) A P	ADDRESS	1 66.	.// /			DATE COMPLETED	17"88
4547	TONE EASTING	NORTHING	JOWFTV.	C ELEVATION	RC	BASIN CODE	III III	iv .
21	الله الله	حسنها لهست		<u> </u>	<u> </u>		, , , , , , , , , , , , , , , , , , , 	
<u> </u>	LC	OG OF OVERBURD	EN AND BEDR	OCK MATER	RIALS (SEE)	NSTRUCTIONS		
GENERAL COLOUR	MOST	OTHER	MATERIALS		GENER	AL DESCRIPTION	DEP FROM	TH · FEET
1)	COMMON MATERIAL	1	/				0	23
graun	pany	stones	v cloy				12	1/
Brown	sand	stones					<u> </u>	127
Brown	sand	stores"	rocks				6/	13/
Than	clan	stones					/3/	/36
Bay	Atmen	and vus	hite clas	4.			/56	214
	NO.	- CANTON FRANCE					ľ	
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31				للبيا	ليلنك		عللينا لــ	لا لىلىا
32	حيا ليليليا	با لىلىلىل	<u> </u>	للسبيا ل	ليليلي			75 00
1 1 W	ATER RECORD	51 CASING	& OPEN HOLE	RECORD	Z SIZE	ST OF OPENING		LENGTH 39-40
WATER FOUND	KIND OF WATER	INSIDE MATERIA	WALL THICKNESS	DEPTH - FEET	- ₩ ₩ _₩	ERIAL AND TYPE -	DEPTH TO TO	
10 19/13	FRESH 3 SULPHUR	10-11 1 Tofes	7,0		S S	S 5	OF SCREEN	196
1 / 0	GAS 19	1 Defect 20 GALVANIZ 3 CONCRET	E 1	0 / 9	61	BLUGGING	& SEALING RE	
	☐ FRESH 3 □ SULPHUR ☐ SALTY 6 □ GAS	4 OPEN HOI 5 PLASTIC	19		~	SET AT FEFT		CEMENT GROUT
	FRESH 3 SULPHUR 24 SALTY 6 GAS	1 DSTEEL 2 GALYANIZ 3 CONCRET	E		FROM	3.0 (0-13 14-17	LEA	D PACKER, ETC 1
	FRESH 3 SULPHUR 29	4 OPEN HO 5 PLASTIC	LE	<u> </u>	7-30	18-21 22-25		
	SALTY 6 GAS	1 STEEL 2 GALVANIZ 3 CONCRET	ED	5		26-29 30-33 80		
1 '	FRESH 3 SOLPHUR 4 MINERALS G GAS	4 DOPEN HO	LE -					
PUMPING TEST N	AETHOD PUMPING RA	TE 11-14 DURATION				LOCATION O	F WELL	
71		GPW	15-16 17-1 HOURS 41-5:	5	N DAGRAM BE	LOW SHOW DISTANCE	S OF WELL FROM ROA	D AND
STATIC LEVEL		LEVELS DURING	1 PUMPING 2 RECOVERY] 9	LINE 1N	IDICATE NORTH BY AR	ROW.	
TEST	19/	30 MINUTES 45 MI	NUTES 60 MINUTES 35-1	, 6	^	B. WEL	LHI	
	EET / OFEET F	EET FEET WATER A	FEET FEE	<u> </u>	1	,		
IF FLOWING. GIVE RATE RECOMMENDED	GPM	FEET I 🗆	CLEAR I CLOUDY] 1				
RECOMMENDED	PUMP TYPE RECOMMEND PUMP	PUMPING	; ;					
50-93	OW DEEP SETTING	FEET RATE	GPI				•	0 B # 2
	54 WATER SUPPLY	■ □ ABANDONED	INSUFFICIENT SUPPLY	7 8				0 B # 1 - 0 B # 1 t 3 W E LL
FINAL STATUS	OBSERVATION W		POOR QUALITY	BH				-0B#1
OF WELL	■ □ RECHARGE WELL			│ │ 				LA WELL
:	55-56 1 DOMESTIC	S COMMERCIAL MUNICIPAL		Q			• #	
WATER	3 IRRIGATION 4 INDUSTRIAL	PUBLIC SUPPLY COOLING OR AIR	CONDITIONING					
	OTHER -	• q	NOT USED					
METHOD	57 CABLE TOOL	• 🗆 BOF				# 47	TWG.	
OF	D ROTARY (REVER	SE) 🐧 🗖 JET	TING			# 4"	3	7789
CONSTRUC	TION 4 GROTARY (AIR) 6 GROTARY (AIR)	+ □ ori □ pig		DRILLERS R				
NAME OF WE	LL CONTRACTOR		WELL CONTRACTOR	'S > DATA SOURCE	5.0		DATE RECEIVED	1000
Wilso	on's Water Wells	Limited	5459		F INSPECTION	5459	NOV 16	1300
Wilso Address	# 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	le, Ontario	1.4A 7X5	ш				
E	AL TECHNICIAN	Le, Untario	WELL TECHNIQIAN	S AEMAN	K B			
SIGNATURE RA	OF TECHNICIAM CONTRACTOR	SUBMISSION I	DATE OATE	OFFICE				
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	irognient viatro	n#2	VVA			MUNICI	-	CON.	
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COUNTY OR DISTRICT	2. CHECK ES COM	TOWNSHIP, BOROUG	H. CITY, TOWN, VILLAGE	سير :		CON BLOCK, TI	ACT, SURVEY, E	TC	13
OWNER (SURNAME FIL	AM.	ADDRESS	BRIDG	· E	,		10 N 1	DATE COMPLETED	17" 85
454	790 JAN 1	U.S. SORTHING	Toutfu	ILLE ELEVATION)	RC BASIN CO		DAY CO HO	
21	10 12 13 11 12 12 12 12 12 12 12 12 12 12 12 12	11 11		15 12		30 31			- 4
	LC	G OF OVERBUR	DEN AND BEDR	OCK MAT					DEPTH - FEET
GENERAL COLOUR	MOST COMMON MATERIAL	ОТНЕ	R MATERIALS		GI	ENERAL DESCI	RIPTION	FR	ON 10
Braun	sand	stores	clay		 			/0	7 7
Brann_	ound	otogea	<u>, L</u>						7 129
Brown	suga	Nocks "	elones					12	9 152
Exey_	elay	alones	1.4					15	2 2/5
May	otheres	Rand +	while	ay					<u> </u>
	•		<u></u>	<u>v</u>					
									
<u> </u>					-				
31				لسال	444	سالت			
32	14 15	بالليليا إ		43		SIZE (S) OF OPER	NING 3	65 DIAMETER	34-38 LENGTH 39-4
41 WA	ATER RECORD	INSIDE	G & OPEN HOLE	RECORD		(SLOT NO)	25_	\mathcal{Q}	NCHES FEE
AT - FEET	KIND OF WATER	DIAM MATER	INCHES	FROM	S S S S S S S S S S S S S S S S S S S	MATERIAL AND	77	DEPTH OF SCR	10 TOP 41-41 EEN 96 FEET
110	SALTY 4 MINERALS 6 GAS	2 10-11 1 0 5 EEL 2 10 GALVAN 3 0 CONCRI 4 0 OPEN 1	ETE 1	0 /	961	51 P	LUGGING	& SEALING	
2	SALTY 6 GAS	17-16 1 DSTEEL	19		20-23	DEPTH SET AT	FEET MA	TERIAL AND TYPE	(CEMENT GROUT LEAD PACKER ETC.)
2	SALTY 6 GAS	2 GALVAN 3 CONCR 4 OPEN 1 5 OPLASTI	ETE HOLE			10-13	14-17		
1	☐ FRESH 3 ☐ SULPHUR 17 ☐ SALTY 6 ☐ GAS	24-25 1 STEEL 2 GALVAI	26		27-30	18-21	22-25		
	FRESH 3 SULPHUR 345 SALTY 6 GAS	3 CONCR 4 OPEN (5 PLASTI	IOLE !	<u>l_</u>		26-29	30-33 80		
71 PUMPING TEST N	$\mathcal{H} \mathcal{R} $	E 11-14 DURAT	ION OF PUMPING 17-			LOCA	TION OF	WELL	
1 PUMP	WATER LEVEL 45	GPM	HOURS MIN		IN DIAGRAI	M BELOW SHO	W DISTANCES ORTH BY ARE	OF WELL FROM	ROAD AND
ES	2) 23-24 15 MINUTES		RECOVERY MINUTES 60 MINUTES 31-34 35-		Λ			11 #2	
	1/9/6 1	EET FEET	FEET FEI			0 .	. W~	•	
FE FLOWING. GIVE RATE RECOMMENDED O	GPM.		CLEAR & CLOUD		l				
RECOMMENDED I	PUMP TYPE RECOMMENDS PUMP OW DEEP SETTING	ED 43-45 RECOM PUMPI FEET RATE	IMENDED 46- NG GP	12 11					nAA2
50-33								•	• 08 # 2 • 08 # 1 • #3 WEL
FINAL	1 WATER SUPPLY 2 OBSERVATION WI	ELL ABANDONE	D. INSUFFICIENT SUPPLY D POOR QUALITY	1 7					. 00 H
STATUS OF WELL	1 1 1 1201 11022	7 UNFINISH 9 DEWATERIA		7					• #3WEK
	1 DOMESTIC	S COMMERCIAL MUNICIPAL		00					
WATER USE	3 IRRIGATION 4 INDUSTRIAL	7 PUBLIC SUPPL O COOLING OR A						(1) C	
	57	• 🗆	<u> </u>				n H	<i>W</i> -	
METHOD OF	CABLE TOOL 2 M ROTARY (CONVE	NTIONAL) 7 🗍 🛭	MOND	$\parallel \perp$		# 4			3778 8
CONSTRUCT	_	9 🗆 D	RIVING IGGING DOTHER	DRILLER	S REMARKS				
h L	LL CONTRACTOR		WELL CONTRACTOR	Y 500	A IRCE	SO CONTRACT	-59"	NOV 1 E	1988
Wilso Address	on's Water Wells		5459	1101	E OF INSPECTIO		INSPECTOR	MUY I C	1300
	# 4 Stouffvil	le, Ontario		- 1 1	IANKS				
SIGNATURE OF NAME OF N	Jadrock	() SUBMISSIO	TO STORY	OFFICE					
Sight of the state	li is and Illish	DAY DAY	MO YR	_ E				<u> </u>	CC5.625
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COUNTY OR DISTRICT	2. enzek Es cokk	TOWNSHIP, BOROUGH, CITY, TOWN VILLAGE		į.	BLOCK TRACT, SURVEY ETC	LC	13
Durham	IST) 28-47	Uxbridge			n. 1	OMPLETED 46	1-53
	ntario Ltd.	R.R.#2, Stouffvil	1e, Ontari	LO RC	DAY	01 _{M0} 08	<u>v_R90</u>
21	ZONE EASTING	HORTHING NC	L			<u> </u>	1 1 27
,	4 10 12 LC	OG OF OVERBURDEN AND BEDRO	CK MATERIAL	S (SEE IN	NS1RUCTIONS I		
GENERAL COLOUR	MOST	OTHER MATERIALS			AL DESCRIPTION	DEPTH -	FEET TO
	COMMON MATERIAL					0	1
Brown	Top soil					1	10
Brown	Clay					10	33
Gray	Clay	stones				33	44
Gray	Grave1	silty				44	112
Gray	Silty Sand	stones				112	118
Gray	Gravel	.1.				118	182
Gray	Clay	stones, silt, gravel				182	192
Gray	Sand stones					192	197
Gray	Gravel						
		Finished depth 197 ft.		1 1			<u> </u>
31				· │ · ↓ ↓ ↓ ↓ │	▎▗▗▗ ▗▗▗ ┇╻╻╷┇╏╻╏╻╏╷┃┇		
32	1 11 15 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	51 CASING & OPEN HOLE	PECORD -	SIZE (54 S) OF OPENING 31-33 T NO	DIAMETER 34-38 L	75 E0 ENGTH 39-40
41 WA	KIND OF WATER	INSIDE WALL	DEPTH - FEET	圖 1:	3 #25,12 #50	10 INCHES	25 FEET
AT - FEET	34	INCHES INCHES	13-16	SCF	S.S.	OF SCREEN 16	11"
170-1936	SALTY 4 DMINERALS UNTESTED GAS TERESH 3 DSULPHUR	1 MSTEEL 2 GALVANIZED 3 GCONCRETE 4 GOPEN MOLE .250 +	2 1691	61	PLUGGING & S	EALING RECO	RD
z	SALTY 6 GAS	10 4 OPEN HOLE .250 +	20-23	DEPTH	SET AT - FEET MATERIA	I CEME	NT GROUT
	FRESH 3 SULPHUR "" SALTY 6 GAS	2 GALYANIZED 3 GONCRETE 4 GOPEN HOLE		35	B-13 14-17		
	FRESH 3 SULPHUR 29 SALTY 6 SAS	5 PLASTIC 26 1 5 5 5 5 5 5 5 5 5	27.30	1	8-21 22-25		
10.13	FRESH 3 SULPHUR 34	2 □ GALVANIZED 3 □ CONCRETE 4 □ OPEN HOLE		30	6-29 30-33 80	cement v fill	
	BALTY 6 GAS	TE D-14 QURATION OF PUMPING			LOCATION OF W		
71 PUMPING TEST M	2 GAILER	535 GPM 72 15-16 17-18 MISS					
STATIC LEVEL	WATER LEVEL 25 END. OF WATER PUMPING	LEVELS DURING PUMPING	IN DIA	AGRAM BEL INE IN	LOW SHOW DISTANCES OF V DICATE NORTH BY ARROW.	VELL FROM ROAD A	, l
15 40 30	21 22-24 15 NINUTE:	.28 29-31 عديد 29-31 a					$\frac{1}{2}$
	118 50 111 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	eer feer feer					,
GIVE RATE	GPM	154 FEET 1 DECLEAR 2 CLOUBY	ETY	#30			
RECOMMENDED	PUMP TYPE RECOMMEND PUMP OW TO DEEP SETTING	154 FEET RATE GPM	647	-			
50-53]		< by mile =	? •	
FINAL	I WATER SUPPLY 2 OBSERVATION W	S ABANDONED, INSUFFICIENT SUPPLY]		← ky mile =	A 300 /	
STATUS OF WELL	3 TEST HOLE	7 UNFINISHED				↓	
	SS-56 DOMESTIC	5 COMMERCIAL	11	_	l	4wy #47	j
WATER	2 STOCK 3 IRRIGATION	6 MUNICIPAL 7 PUBLIC SUPPLY 8 COOLING OR AIR CONDITIONING			ħ	ω_1	!
USE	4 📉 INDUSTRIAL	9 NOT USED					
METHOD	57 CABLE TOOL	6 BORING ONLING					
OF	3 ROTARY (REVER	=======================================			#1 on Bonord	8	7163
CONSTRUC	AIR PERCUSSION		DEC TOST	KS METT	#1, on Record		
1 1	LL CONTRACTOR	WELL CONTRACTOR'S	DATA	5.8	2662 N	OV 3 0 199	0
G. Ha	ert & Sons Well		SOURCE OF INSP	ECTION	ROYJEGEN	<u>o i y a 199</u>	·
Box 8	850 R.R.#1. Fe	nelon Falls, Ontario					
E Charli	ie Duggan	Elekte Mandel	OFFICE				
O SIGNATURE	OF TECHNICIAN/CONTRACTOR	SUBMISSION DATE DAYMOYR	₽				5.65
	ficho Mid I Te					FORM NO. 0506	(11/86) FORM 9



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2. CHECK (A) CORRI	TOWNSHIP, BOROUGH CITY, TOWN, V			con BLOCK TRACT, SURVEY ETG	c	13
	ge	(TW#1)		COII. I		yr 90
	.#2, Sto	uffville,		RC. BASIN CODE	17 MO 07	YR. 20
1 Z M 10 12	12 16 2	4 25 26	البنا	30 31		1 1 42
LC	OG OF OVERBURDEN AND	BEDROCK N	TATERIALS	SEE INSTRUCTIONS)	DEPTH	- FEET
GENERAL COLOUR COMMON MATERIAL	OTHER MATERIALS		G	ENERAL DESCRIPTION	FROM	10
Brown Top Soil				<u> </u>	0	1
Brown Clay					11	10
Gray Clay	Stones				10	33
Gray Gravel silty					33	112
Gray Silty Sand	Stones				44	112
Gray Gravel				<u>"</u>	112	118
Gray Clay stones s	llty				118 182	192
Gray Sand Stones					192	207
Gray Gravel			77 1 1.0		stones	238
Gray Clay	Stones		Hard dri	lling layers cl	238	240
Gray Stones					2.36	270
		1.1.11	<u>.</u> . 1 . 1 . 1			
. 31					سلسلسيا ل	ليا ليا
WATER RECORD	51 CASING & OPEN	HOLE RECO	ORD Z	SIZE S OF OPENING 31-3	DIAMETER 34-38	LENGTH 39-40
MATER FOUND KIND OF WATER	INSIDE WAL FHICKN INCHES INCH	NESS	TO C	MATERIAL AND TYPE	DEPTH TO TOP OF SCREEN	FEET 30
10-13 FRESH 3 SULPHUR 4 MINERALS 6 GAS	10-11 1 STEEL 12 GALVANIZED		13-16	<u> </u>		FEET
15-18 FRESH 3 SULPHUR 19	3 COMCRETE 4 DOPEN HOLE 5 DPLASTIC		1 1 1 1 1 1 1		SEALING RECO	
20-23 1 FRESH 3 SULPHUR 24	17-18 1 □STEEL 2 □GALVANIZED		20-23	FROM 50	ERJAL AND TYPE LEAD P	PACKER, ETC)
23-28 FRESH 3 DSULPHUR 29	3 GONCRETE 4 GOPEN HOLE 5 PLASTIC		27-30	10-13 14-17		
2 SALTY 6 GAS	24-25 1 DSTEEL 26 26 26 26 26 26 26 26 26 26 26 26 26		'''	26-29 30-33 80		
1 FRESH 4 MINERALS 2 SALTY 6 GAS	4 DPEN NOLE 5 DPLASTIC			:		
71 PUMPING TEST METHOD (D PUMPING RATE)	15-16	17-18		LOCATION OF	WELL	
STATIC WATER LEVEL 25 WATER	GPM HOURS 1 ☐ PUMPIN LEVELS DURING 2 ☐ RECOVE	1 1	IN DIAGRA LOT LINE	M BELOW SHOW DISTANCES O INDICATE NORTH BY ARRO	OF WELL FROM ROAD : DW:	AND
LEVEL POMPING 18-21 22-24 15 MINUTES	S 30 MINUTES 45 MINUTES 60	MINUTES 35-37		•		Ų
	E SET AT WATER AT END OF TEST	FEET.			,	Λ
IF FLOWING. 38-41 PUMP INTAKI GIVE MATE GPM RECOMMENDED PUMP TYPE RECOMMEND PUMP PUMP	FEET 1 CLEAR 2 C	CLOUDY	417 #3	c	·	
RECOMMENDED PUMP TYPE RECOMMEND PUMP SETTING	ED 43-45 RECOMMENDED PUMPING RATE	48-49 GPM	Fr	1		
50-51				€ Mynide -	ラ ク	
FINAL 1 WATER SUPPLY 2 OBSERVATION W	# ABANDONED, INSUFFICIEN				300'	
STATUS 3 TEST HOLE OF WELL 4 TRECHARGE WELL	, 🗆 UNFINISHED					
55-56 DOMESTIC	5 COMMERCIAL 6 MUNICIPAL				HWY#47	
WATER 1 IRRIGATION USE 4 MINDUSTRIAL	7 PUBLIC SUPPLY D COOLING OR AIR CONDITIONIN	16		•	•	
OTHER	• NOT USED					
METHOD The state of the state					0.	7000
OF CONSTRUCTION OF ROTARY (REVERSED AND REPORT OF THE PERCUSSION O	9 DRIVING			7/63 for finished	d hole 8	(036
NAME OF WELL CONTRACTOR	WELL CONT	RACTOR'S	DATA		TE RÉCEIVED	63-64 80
	LICENCE NO	UMBER Z	SOURCE	2662	NOV 3 0 19	90
Box 850, R.R.#1, Fen		سا ا		INSPECTOR		
NAME OF WELL TECHNICIAN	WELL TECH	HNICIAN'S ⊃	REMARKS			
Charlie Duggan SIGNATURE OF TECHNICIAN/CONTRACTOR	SUBMISSION DATE	PFICE SARWOR				• •
Clarke water	DAYMO	YR			FORM NO. 0506	(11/86) FORM 9



GENERAL COLOUR MOST COMMON MATERIAL OTHER MATERIALS GENERAL DESCRIPTION FROM Brown Clay Stones & Boulders Brown Gravel 3 Brown Sand Stones 4	DEPTH FEET TO O 31 B1 44 B4 84 B4 160 B0 184 B4 194 B4 198
OWNER (SURNAME FIRST) 454790 Ontario Ltd. R.R.#2, Stouffville, Ontario LOG OF OVERBURDEN AND BEDROCK MATERIALS SEE INSTRUCTIONS) LOG OF OVERBURDEN AND BEDROCK MATERIALS SEE INSTRUCTIONS GENERAL COLOUR COMMON MATERIAL OTHER MATERIALS GENERAL DESCRIPTION FROM Brown Gravel Brow	07 VR 90
454790 Ontario Ltd. R.R.#2, Stouffville, Ontario Control Ltd. R.R.#2, Stouffville, Ontario Control Ltd. R.R.#2, Stouffville, Ontario Control Ltd. R.R.#2, Stouffville, Ontario Control Ltd. R.R.#2, Stouffville, Ontario Control Ltd. R.R.#2, Stouffville, Ontario Control Ltd. R.R.#2, Stouffville, Ontario Control Ltd. R.R.#2, Stouffville, Ontario Control Ltd. R.R.#2, Stouffville, Ontario Control Ltd. R.R.#2, Stouffville, Ontario Control Ltd. R.R.#2, Stouffville, Ontario Control Ltd. R.R.#2, Stouffville, Ontario Control Ltd. R.R.#2, Stouffville, Ontario Control Ltd. R.R.#2, Stouffville, Ontario Control Ltd. R.R.#2, Stouffville, Ontario Control Ltd. R.R.#2, Stouffville, Ontario Control Ltd. R.R.#2, Stouffville, Ontario Control Ltd. R.R.#2, Stouffville, Ontario R.R.#2, Stouffvil	DEPTH FEET TO O 31 S1 44 S4 160 S0 184 S4 194 S4 198
LOG OF OVERBURDEN AND BEDROCK MATERIALS SEE INSTRUCTIONS) GENERAL COLOUR COMMON MATERIAL OTHER MATERIALS GENERAL DESCRIPTION FROM Brown Clay Stones & Boulders Brown Gravel Dry Water Bearing Cloudy 18 Brown Gravel Water Bearing 19 Gray Clay stones 19 Gray Clay Silt Stones 20 Gray Clay Silt Stones 20 Common Material Scription From Sand Stones 19 Water Bearing Cloudy 18 Gray Clay Stones 20 Gray Clay Silt Stones 20 Common Material Scription From Sand Stones 19 Water Bearing Cloudy 18 Gray Clay Stones 20 Gray Clay Silt Stones 20 Common Material Scription From Sand Stones 19 Water Bearing Cloudy 18 Gray Clay Silt Stones 20 Common Material Scription From Sand Stones 19 Water Bearing Cloudy 19 Water Bearing 19 Gray Clay Silt Stones 20 Common Sand Stones 20 Common Material Scription From Sand Stones 19 Water Bearing 19 Common Sand Stones 20 Common Material Scription Scription Sand Scription Sand Scription Sand Sand Scription Sand Sand Sand Sand Sand Sand Sand San	рерти гест м го 0 31 81 44 84 160 60 184 84 194 94 198
GENERAL COLOUR COMMON MATERIAL OTHER MATERIALS GENERAL DESCRIPTION FROM Brown Clay Stones & Boulders Brown Gravel Brown Gravel Dry Brown Gravel Water Bearing 16 Gray Clay stones Gray Clay Silt Stones Cray Clay Silt Stones Cray Clay Silt Stones Common Material S	0 31 31 44 34 84 34 160 30 184 34 194
GENERAL COLOUR COMMON NATERIAL OTHER MATERIALS GENERAL DESCRIPTION FROM Brown Clay Stones & Boulders Brown Gravel Brown Gravel Dry Brown Gravel Water Bearing 16 Gray Clay stones Gray Clay Silt Stones Cray Clay Silt Stones Common Naterial Stones General Description From From Gravel 3 A Water Bearing 16 Water Bearing 19	0 31 31 44 34 84 34 160 30 184 34 194
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Brown Clay Stones & Boulders Brown Gravel 3 Brown Gravel Dry Brown Gravel Water Bearing 16 Brown Gravel Water Bearing cloudy 18 Gray Clay stones 19 Gray Clay Silt Stones 20 Gray Clay Silt Stones 20	81 44 84 84 84 160 80 184 84 194 94 198
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Brown Sand Stones 4 Brown Gravel Dry 8 Brown Gravel Water Bearing 16 Brown Gravel Water Bearing cloudy 18 Gray Clay stones Water Bearing 19 Gray Clay Silt Stones 20	34 160 50 184 34 194 94 198
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Gray Clay Sift Stones	
Gray Clay Stones 2.	
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	54-52 LENGTH 39
WATER RECORD S1 CASING & OPEN HOLE RECORD INSIDE OIAM INCINES FRUM TO OF SCREET 10-13 LO FREEN 3 DEMAND TE	O TOP 41-44
2 ONLEANS 10-11 1 OSTEEL	FEET
15-16 1 PLUGGING & SEALING F	RECORD
2 SALTY 6 GAS 17-16 1 STEEL 19 20-23 DEPTH SET AT - FEET MATERIAL AND TYPE	(CEMENT GROUT LEAD PACKER, ETC.)
20-23 1 PRESH 3 SULPHUR 24 2 GALVANIZED 5 6 GAS 4 OPEN HOLE 10-13 14-17	
25.28 1 FRESH 3 SULPHUR 29 5 PLASTIC 27-30 18-21 22-25 1 GRATY 4 MIMERALS 24-25 1 GRATY 24-25 1 GRATY 25 25 27-30 27-3	-
30-33 1 FRESH 4 INTEGRAL 1 STEEL 2 GALYANIZED 3 CONCRETE 26-29 30-33 80	
2 SALTY 6 GAS 5 PLASTIC	
71 PUMPING TEST METHOD 10 PUMPING RATE 11-14 DURATION OF PUMPING 15-16 17-18 10-14 DURATION OF PUMPING 15-16 17-18 10-14 DURATION OF WELL 15-16 17-18 10-14 DURATION OF WELL	
STATIC WATER LEVELS DURING 1 PUMPING IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM F	ROAD AND
LEVEL PUMPING - RELUVERY	N
SECOMMENDED PUNP TYPE 15 - 22 - 24	个
Z IF FLOWING. 38-41 PUMP INTAKE SET AT WATER AT END OF TEST 42 GIVE RATE	
GOM FEET 1 CLEAR & CLOUDY RECOMMENDED PUNP TYPE RECOMMENDED 43-45 PUNP: ING SHALLOW DEEP SETTING FEET RATE GPM	
SHALLOW DEEP SETTING FEET MALE	•
66-55	
FINAL 1 WATER SUPPLY 5 ABANDONED INSUFFICIENT SUPPLY 260	
STATUS ST	
OF WELL RECHARGE WELL DEWAYERING HWY # 4	7
WATER 5 MUNICIPAL STOCK 5 MUNICIPAL	· ·
USE 4 SE INDUSTRIAL # COOLING OR AIR CONDITIONING CONTRACT OTHER OTHER OTHER	
57 1 CABLE TOOL 6 BORING	نع يادره
METHOD 2 GROTARY (CONVENTIONAL) 7 GDIAMOND OF 3 GROTARY (REVERSE) 3 GJETTING	8712
CONSTRUCTION 4 DA ROTARY (AIR) 9 DRIVING 5 AIR PERCUSSION DIGGING OTHER DRILLERS REMARKS	
DATA SE CONTRACTOR'S DATA SE CONTRACTOR SESS DATE RECEIVED	63-64
NAME OF WELL CONTRACTOR	1992
A HOLE OF DOING MOTE WITHTING HOUSE TOOK	
G. HATE & BORS WELL DITITING LEG. 2002 DATE OF INSPECTION INSPECTION OF OR D. D. H. 1. F I. S. D. 1. C. D. D. H. 1. F I. S. D. D. H. 1. F I. S. D.	
ADDRESS Box 850, R.R.#1, Fenelon Falls, Ontario Well TECHNICIAN'S REMARKS	
ADDRESS Box 850, R.R.#1, Fenelon Falls, Ontario Well TECHNICIAN'S REMARKS	*.
ADDRESS Box 850, R.R.#1, Fenelon Falls, Ontario NAME OF WELL TECHNICIAN Charlie Duggan SIGNATURE OF TECHNICIAN/CONTRACTOR SUBMISSION DATE DAY NO YR.	C 55, B



Ontario Environment I. PRINT ONLY IN	SPACES PROVIDED 11	7 1	911495	1,2 CON.	0,1
2. CHECK 🗵 CORI	TOWNSHIP, BOROUGH, CITY, TOWN, VII	<u></u>	CON , BLOCK, TRACT	SURVEY ETC	LOT 25-27
Durham	Uxbridge		con.1	DATE COMPLETED	13
owner (surname first) 28-47 454790 Ontario Ltd.	R.R.#2, Stouff	fville,	Ontario	DAY 24 NO 09	vr. <u>91</u>
ZONE EASTING	NOATHING	RC.	ELEVATION RC. BASIN CODE		
1 Z N 10 12	OG OF OVERBURDEN AND B	ZEDROCK	MATERIALS (SEE INSTRUCTION	S)	
MOST MOST	OTHER MATERIALS		GENERAL DESCRIPT	DEPT	1 · FEET
GENERAL COLOUR COMMON MATERIAL	C. C. D. Line			0	31
Brown Clay	Stones & Boulders			31	44
Brown Gravel	Channa			44	84
Brown Sand	Stones			84	160
Brown Gravel			water bearing	160	184
Brown Gravel			Water bearing	184	194
Brown Gravel Gray Clay Stones				194	198
				198	200
Gray Gravel Silty					
	* Production Well				
31 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	* Production well				
32		 		لىللىنىا لىلىل	يا لِيا
41 WATER RECORD	51 CASING & OPEN	HOLE RE	CORD SIZE ST OF OPENING SLOT NO 3	į.	LENGTH 39-40
WATER FOUND KIND OF WATER	INSIDE WALL DIAM MATERIAL THICKNE	55	TO MATERIAL AND TYP	E DEPTH TO TOP	47 FEET
153 2 SALTY 4 MINERALS	10-11 1 1 12 STEEL 12	_	33-16 Ø		.53 👊
15-18 1 OF FRESH 3 SULPHUR 19	20 Securities 25	0 + 1	152 61 PLU	GGING & SEALING REC	ORD
200 UNTESTED GAS	17-14 1 STEEL 19 2 GALVANIZED		20-23 DEPTH SET AT FEET		MENT GROUT PACKER, ETC)
2 5ALTY 6 GAS	12 CONCRETE 4 OPEN HOLE 5 PLASTIC	0 + 2	152 0 0 15	Cement Grout	
2 SALTY 6 GAS	24-25 1 STEEL 2 GALVANIZED			2-25	
30-33 L FŘESH 3 SULPHUR 38 2 SALTY 6 GAS	3 DONCRETE 4 DOPEN HOLE 5 DPLASTIC		26-29 3	0-33 80	
71 PUMPING TEST METHOD 10 PUMPING R	1		LOCATI	ON OF WELL	
1 X PUMP 2 U BAILER WATER LEVEL 28	722 GPM 24 HDURS	17-18 MINS		ISTANCES OF WELL FROM ROAD	AND
LEVEL PUMPING	R LEVELS DURING 2 RECOVER ES 30 MINUTES 45 MINUTES 60 M	RY MINUTES	LOT LINE INDICATE NOR	A 1	
	131.58 132.28" 13	28		N	
IF FLOWING. 38-41 PUMP INTA	KE SET AT WATER AT END OF TEST	4Z CLOUDY		1	
RECOMMENDED PUMP TYPE RECOMMEN	DED AS AS DECOMMENDED	46-47	1		
SHALLOW TO DEEP SETTING	141. FEET PUMPING RATE 7	722 GPM	b. mil	•	
EIRLAI SA 1 M WATER SUPPLY	& ABANDONED, INSUFFICIENT	SUPPLY	CTY/Ad. / 14 mil	·	
STATUS 2 OBSERVATION S	VELL 6 ABANDONED POOR QUALITY 7 UNFINISHED		C14 /di	1360'	
OF WELL . RECHARGE WEL	L DEWATERING 5 COMMERCIAL		430		
WATER 2 STOCK 3 D IRRIGATION				V	
USE A NOUSTRIAL	■ COOLING OR AIR CONDITIONING ■ NOT USED	·		HWY #47	
57 1 CABLE TOOL				•	
METHOD Z ROTARY (CONV	RSE) & DETTING		*See Well Record#871	21 T¥2	0000
CONSTRUCTION ROTARY (AIR)	9 DRIVING N DIGGING OTH	11	DRILLERS REMARKS	13	<u> 16920</u>
NAME OF WELL CONTRACTOR	WELL CONTR	RACTOR'S MBER	DATA SOURCE	B 22 DATE RECEIVED	41-44 B
G G Hart & Sons Well	Drilling Ltd. 2662			BZ JULO6 19	52
Box#850, R.R.#1, Fen		NICIAN'S	SE		
Box#850, R.R.#1, Ferr NAME OF WELL TECHNICIAN Cecil Johnston SIGNATURE OF TECHNICIAN/CONTRACTO	WELL TECHT LICENCE NU T-0275	JMBER	uı		
SIGNATURE OF TECHNICIAN/CONTRACTO	R SUBMISSION DATE		OFFICE		5.65.5
MINISTRY OF THE ENVIR	RONMENT COPY	YR	· · · · · · · · · · · · · · · · · · ·		6 (11/86) FORM

The Ontario Water Resources Act

WATER WELL RECORD

Ontario Environment	1	912239 1390121 66	
	PACES PROVIDED ECT BOX WHERE APPLICABLE TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	9 2 3 190 12 CC	6 LOT 25-27
COUNTY OR DISTRICT	HYBRIDGE TWP.	Uxbridge) con. 1 Plan40F	
	5	2ND CON. RD.	9 MO 10 YR 94
	HING RC.	ELEVATION NC BASIN CODE II	111 11
1 2	OG OF OVERBURDEN AND BEDROC	K MATERIALS (SEE INSTRUCTIONS)	
GENERAL COLOUR COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET
BROWN CLAY			0 15
BROWN SAND		LOOSE	15 60
GRAY GRAVEL		PACKED	60 67
GRAY SAND		FINE	67 115
GRAY SAND		MED.	115 118
		·	
31			
32			<u> </u>
41 WATER RECORD	51 CASING & OPEN HOLE RI	ECORD SIZE(S) OF OPENING 31-33 DIAN TOTAL SIZE(S) OF OPENING 11-33 DIAN TOTAL SIZE(S) DIAN TOTAL SIZE(S) OF OPENING 11-33 DIAN TOTAL SIZE(S) OF OPENING 11-33 DIAN TOTAL SIZE(S) DIAN TOTAL	5 34-33 LENGTH 59-40
WATER FOUND KIND OF WATER 1 1 5 11 6 20 FRESH 3 □ SULPHUR	DIAM MATERIAL THICKNESS FROM	MATERIAL AND TYPE	DEPTH TO TOP 41-44 30 OF SCREEN 115
SALTY 4 MINERALS 6 GAS	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	107	FEET!
FRESH 3 SULPHUN 2 SALTY 6 GAS	4 OPEN HOLE 5 PLASTIC 17-18 1 ESTEEL	DLPTH SET AT - FEET MATERIAL A	CEMENT GROUT
20-23 1 FRESH 3 SULPHUR 24 A SALTY 6 GAS	5 3 GALVANIZED .188 10	FROM TO	LEAD PACKER, ETC.)
25-28 1 FRESH 3 SULPHUR 29 4 MINERALS 2 SALTY 6 GAS	5 □ PLASTIC 24-25 1 □ STEEL 2 □ GALYANIZED	27-30 16-21 22-25	
30-33 1 FRESH 3 SULPHUR 34 00 4 MINERALS 2 SALTY 6 GAS	3 CONCRETE 4 DOFEN HOLE 5 DPLASTIC	28-29 30-33 40	
71 PUMPING TEST METHOD AIR 10 PUMPING RATE	11-14 DURATION OF PUNPING 1 15-16 30 17-18	LOCATION OF WE	LL
3 D PUMP 2 BAILER 20 STATIC WATER LEVEL 25 END OF WATER I	GPM HOURS NIVS	IN DIAGRAM BELOW SHOW DISTANCES OF WELLOT LINE INDICATE NORTH BY ARROW.	L FROM ROAD AND
33 117 15 MINUTES 22-24 15 MINUTES 24-24 11 71 71 72-2	30 MINUTES 45 MINUTES 60 MINUTES		
	117, 117 FEET 117, FEET 117, FEET		TX
GIVE RATE GPM 117	FEET 1 TKCLEAR & CLOUDY	.]	
RECOMMENDED PUMP TYPE SHALLOW 12 DEEP RECOMMENDED PUMP SETTING 80	-100 FEET RATE 0-15 GPM	· · · · · · · · · · · · · · · · · · ·	f++++-
50-53			(m)
FINAL STATUS 1 Water supply 2 OBSERVATION WEI	1 1		his .
OF WELL 4 RECHARGE WELL	7 UNFINISHED DEWATERING	M // //	
WATER Domestic Stock Registron	S COMMERCIAL MUNICIPAL Dublic Supply		
USE 4 INDUSTRIAL OTHER	COOLING OR AIR CONDITIONING 9 NOT USED		
ST CABLE TOOL	\$ □ BORING	06170- 114	
METHOD OF 1 GROTARY (CONVENT 1 ROTARY (REVERSE CONSTRUCTION 4 GROTARY (AIR)		wé" 0 ← 170 →	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
I AIR PERCUSSION	OIGGING OTHER	DRILLERS REMARKS	144668
MAME OF WELL CONTRACTOR E.S. WELL DRILL	WELL CONTRACTOR'S LICENCE NUMBER 4738	DATE OF INSPECTION SOURCE SOURCE SA CONTRACTOR SS.62 DATE RECEIVE DELLA SOURCE MASPECTOR	1
ADDRESS GOODWOOD ON		<u>u</u>	
NAME OF WELL TECHNICIAN	WELL TECHNICIAN'S LICENCE NUMBER	S RENARKS	
SIGNATURE OF TERMINICIAN OUNTRACTOR	T-0016 SUBMISSION DATE	OFFICE	•
MINISTRY OF THE ENVIRON		<u> </u>	CC.CC FORM NO. 0506 (11/86) FORM S

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Municipality	Con.					
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Co	ounty or Distric	0/		Township	/Borough/City				Con block	tract surve	ey, etc. Lo	25.27
				Address	Z	labr	elge		<u> </u>	On Date	28	12 8 98
					Northing		RC Elev	Vation RC	Basin Code	completed		nonth year
21	2	T M 18		OVERBURA	S AND DE	DOCK MA	25 28 TEDIAL C	30	31		1	
G	eneral colour	Most common male		OVERBURDE OI	ther materials	THUCK MA	HIALS	•	description			pth - feet
	Baour	slau			 			sale	+		From	27
	Grey	sand		<u> </u>				men	/		27	30
	(M)											
**	-											
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31							·					·
32		4 15 21	<u> </u>		1.1.1.]	11111		11:1	L L L		75 60
	ter found	FER RECORD Kind of water	51 Inside diam	CASING &	OPEN HOL Wall thickness	E RECORD	$\overline{}$	Sizes of or (Slot No.)	pening 3	1-33 Diameter	34-38 Leng	> .
 	, ,	Fresh 3 Sulphur 14	inches	Steel 12	inches	From	To 16	Material ar	id type		Depth at top	of screen 30
٥	<u> </u>	Fresh 3 Sulphur 19	6/4 :	☐ Galvanized ☐ Concrete ☐ Open hole	.188		21	6	<u> </u>	ز	27	feet
-		Salty 4 Minerals Gas Fresh 3 Sulphur 24	17-1B L	☐ Plastic ☐ Steel 19 ☐ Galvanized			20-21	61	PLUGGING Annular space	& SEALIN	G RECOR	
_	2 🗆	Salty 6 Gas	3	Concrete Copen hole Plastic				Depth set at -	To Mater	ial and type (Ce	ment grout, be	-
		Fresh 3 Sulphur 23 Salty 4 Minerals 6 Gas	24-25 1	☐ Steel 26 ☐ Galvanized			27 - 30	18-21	22-25	Hole	slug	•
		Fresh 3	3	☐ Concrete ☐ Open hole ☐ Plastic				26 58	30-33 80			
	Pumping test m			Duration of pumple	***			100				
\vdash	, ☐ Pump 2 Static level	/ater level 25			☐ Recovery		n diagram	below show d	ATION OF		ad and lot l	ne.
1S) 19-21	nd or partiping	0 minutes		60 minutes		ndicate no	orth by arrow.			10	
PUMPING TEST	feet If flowing give ra	1eet 1eet 1eet 1	1eet	1/1	/// feet				#47	Hwy	, , ,	
	Recommended	GPM 2C	feet	Clear Recommended	□ Cloudy				,	7_1L	1159	E
-	,	Deep pump setting		pump rate	7 GPM			\angle	,	7-65 2 MH	475	พ
_	SAL SZÁTUS	S OF WELL 54				•			4	7-64 8- 74 980		
1	Water sup Doservation	nlv ⟨□ Abandoned.	poor quality	pply e ☐ Unfinish 10 ☐ Replace			, V	1		980) EL	
	4 Recharge	well 8 Dewatering	(,			17	Y			\		
WA	TER USE : Domestic 2 Stock	55-56 5		9 ☐ Notuse		1	/				K	
	2 ☐ Stock 3 ☐ Irrigation 4 ☐ Industrial	s ☐ Municipai / ☐ Public suppl s ☐ Cooling & ai		10 ☐ Other				ų,			60 '	
ME	THOD OF C	ONSTRUCTION *						17		office		8666
	Dable tool Rotary (co	5 ☐ Air percussion some financial of Boring	Xn .	□ Driving □ Digging				l'a	! !			ATORS
	4 ☐ Rotary (ai	verse) 7 Diamond T) 8 Diamond Jetting		₁ □ Other				` \		<u> 166</u>	905	
Nam	ne of Well Control	ictor / / / /	111+	Well Contractor	's Licence No.	Data source		Contracctor	E 0	59-62 Date rece		63-68 80
Add	Welse ress	mo Walu W	ellad k	n 1	154	Date o	f inspection	5 4	spector	SEP	1 1 1	996
Neur	ne of Well Techni	cian Kann	idy i	Well Technician	's Licence No.	S Remar	ks I	<u> </u>	- i	•		
Sian	nature of Technic	n Rennie		7033	9	RINISTRY US	•	\$		₹ ^r	7	r orphical
Ľ	Tota	whilson		day mo	° 96	\$		<u> </u>			ころろ 506 (07/94) Fi	. RS

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Municipality	Con.	
19013	CON	

County or Distric	cl O	Township/Borough/C	its/FormA filling				22 23
,			rbride e	Con	block tract surve	ey, etc. Lo	*/ つ ゚゙
		Address	5rd	Par	Date	25 1	,
		Northing	RC EI	evation RC Basin	Completed	day m	nonth yes
1-2) : M ip	17 18	24 25 26	39 31	<u> </u>	<u></u>	المنط
General colour	Mantanana	LOG OF OVERBURDEN AND BE		S (see instructions)			
General colour	Most common materia	Dother material	5	General descrip	otion	From	pth – feet To
Block	100-oil		,			0	2
Brown	Clay	Sond + Lto	res		-	7	20
Brown	Clay	Sandy				20	52
Brown	Sond & Gro	vel				52	58
Brown	Class	Sand + Stor	es			50	60
Greet	Class	Silt				15	9~
Grece	Silt	3.027		***		9,-	1111
Green	Sand		E	` _		11/1	119
(SIL		7.2			1/7	118
o reg						118	
						-	-
31						<u> </u>	
32						<u>- 1 1 1 1 1 1 1 1 1 1 </u>	التنا
10	TER RECORD	51 CASING & OPEN HO	LE RECORD		65	.	75
Water found at - feet	Kind of water	Inside diam Material Wall thickness	Depth - feet	Sizes of opening (Slot No.)	1-33 Diameter	34-38 Lengt	-
10-13 ; 2	Fresh 3 Sulphur 14	inches inches	From To	Material and type		Depth at top of	ofscreen ≭
	Salty 6 Gas Fresh 2 Sulphur 19	2 Galvanized 188	0115	<u></u> \$.5.	<u> </u>	115	feet
	Salty 6 Gas	/ 5 Plastic		61 PLUG	GING & SEALING	G RECOR	D
1	Fresh 3 Sulphur 24 Minerats Salty 6 Gas	17-18 1 □ Steel 19 2 □ Galvanized 3 □ Concrete	20.23	Annular s		Abandonme	
<u> </u>	Fresh 3 🗆 Suiphur 29	□ Open hole □ Plastic		From To	Material and type (Cer	nent grout, be	ntonite, etc.)
	Salty 4 Minerals 6 Gas	24-25 1 Steel 26 2 Galvanized	27-30	8-21 Z 6-17	Bensea	<u></u>	
1 1 -] Fresh 3 ☐ Sulphur 34 60 ☐ Minerals ☐ Gas	□ Concrete □ Copen hole □ Plastic		26 29 30~33 8	0		
Pumping test m		H-14 Duration of pumping	7				
71 1 Pump 2	Bailer 9	GPM	1	LOCATION		1	
Static level e	nd of pumping Water levels du		In diagram Indicate n	n below show distance orth by arrow.	s of well from roa	dand lot ijr	ie.
If flowing give ra	22-24 15 minutes 26-28 30 r	minutes 45 minutes 60 minutes 35-31		47		con	
feet /	te 38-41 Pump intake set at	OO feet /OO feet /OO feet Water at engl of test 42					
Recommended	GPM Become	feet Clear Cloudy	11 A	/)		
	pump type Recommended pump setting	43-45 Recommended 46-49 pump rate			.]	سد	}_
50-53		feet GPM] /		1	17	
FINAL STATUS	ply ₅ ☐ Abandoned, ins	sufficient supply s 🔲 Unfinished				1.	
2 ☐ Observation 3 ☐ Test hole 4 ☐ Recharge	≀ 🗋 Abandoned (Ot			1			
<u>-</u>	Well 8 Donates lig		ŀ				. At the same of
WATER USE Domestic		g 🔲 Notused					
2 ☐ Stock 3 ☐ Irrigation 4 ☐ Industrial	s ☐ Municipal 7 ☐ Public supply 8 ☐ Cooling & air co	10 Other					
				THOUSE			
Cable tool		₃ □ Driving	85 ->				
2 ☐ Rotary (co 3 ☐ Rotary (rev	nventional) 6 🛘 Boring verse) 7 🖨 Diamond	10 Digging	_ 💉	200'		A = = :	4
₄ ☐ Rotary (air	2 a ☐ Jetting		HYDRO POLE			947	<u> </u>
Name of Well Contra	ictor / 1/1/11	Well Contractor's Licence No.	Data .	58 Contracctor	59-62 Date receiv		63-68 80
Wilsen	Waler Wills	40 5459	Data source	$\perp 5459$	JAN		
1 48to	affirly C	27	Date of inspection	Inspector	٠.		
Name of Well Technic	The state of the s	Well Technician's Licence No.	Remarks	1,	· · · · · · · · · · · · · · · · · · ·	1	M
Signature of Technici	to his after	Submission date	Date of inspection Remarks		(100.00		2,
	etablesa	Gey mo yr			CSS.S8		
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of the

The Ontario Water Resources Act WATER WELL RECORD

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Municipality	Con.		I Dali
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					10 14 1		22 23 24
County or District	· · · · · · · · · · · · · · · · · · ·	Township/Borough/City/	/		Con block tract sur	vey, etc. L	8 t 25.27 10+11
		Address	~	10	Date complete	123 0	4 02
		Northing	RC	ncl com Elevation RC	Basin Code ii	d day	month year
21	W 10	2 57 18	24 25	26 30	31	بيبي	111147
	LOG O	F OVERBURDEN AND BEDR	OCK MATERIA	LS (see instructio	ns)	Doni	th - feet
General colour Most	common material	Other materials		General o	description	From	To
Black Top	Soil					0	2
Brown Cla	ry	Sand + Stone	9			マ	48
Erey Clas	an .	Silty				48	75
6 ley 5%	et	Clan			a	75	143
Grey Silt	+ Sand + Gra	rul /				143	15-4
Green Clas	es ,			Soft		154	156
En Brown 1	Sand			<i>,</i>		156	158
Green Ck	lay	Stone				150	
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		i i					
31							
32	21	1	J L4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			لبللب	75 80
41 WATER RECOR	D 51	CASING & OPEN HOLE R		Sizes of or		1	gth 39-40
at - feet Kind of V	diam inches Sulphur 14	Material thickness inches	From To	(Skot No.) Material ar	/2 6 nd type	inches Oepth at top	of screen 30
56 2 Salty 6] Minerals] Gas	1 Steel 12 2 Galvanized 3 Concrete	_ .	. ->	5 .	156	41-44 feet
2 Gelby 4 G	Sulphur 19 Minerals Gas	4 □ Open hole 5 □ Plastic /88	0 /5	61 F	PLUGGING & SEALIN	IG RECORE	<u> </u>
20-23 1 Fresh 3	Sulphur 24 Minerals	1 Steel 1 Galvanized 3 Concrete			Annular space	☐ Abandon	nent
25-28 Fresh 3] Gas] Sulphur 29	Concrete Open hole Plastic		From 10-13	To Material and type (•	
2 🗆 Safty 6	Minerals 24-25 Gas	1 Steel 28 2 Galvanized		27-30 0 7	0 Lentonil	e bro	nv
I Flesh 4] Sulphur 34 60] Minerals] Gas	3 ☐ Concrete 4 ☐ Open hole 5 ☐ Plastic		26-29	30-33 80		
Pumping test method 10	Pumping rate 11-						
71 1 Pump 2 Bailer	#5 GPI	Accounts -	In di		ATION OF WELL distances of well from	road and lo	t lind.
Static level end of pumping 19-21 22-24	Water levels during	1	Indic	ate north by arrow.			1
S 40 feet 20 feet	15 minutes 30 minutes 29-	1 1)		2r Cos	4
If flowing give rate 38-41	Pump intake set at	Water at end of test 42	1	۱ *	~ 400°		,
Hecommended pump type	Recommended 43-	1 100011 KII O 1000] '	•		·	ا۸
Shallow Deep	pump setting /40 fe	pump rate /5 GPM					T = T
FINAL STATUS OF WEL	L 54			'			11
¹ ☑ Water supply ² ☐ Observation well	 Abandoned, insufficient Abandoned, poor qualit 					ا ي	
3 ☐ Test hole 4 ☐ Recharge well	7 Abandoned (Other) 8 Dewatering					1 Km	
WATER USE	55-56	n C Nac					1
1 Domestic 2 Stock 3 Irrigation	5 Commercial 6 Municipal 7 Public supply	9 Not use				ļ	
4 🔲 Industrial	8 Cooling & air conditioning	ng				. 1	
METHOD OF CONSTRUC	CTION 57	9 🗆 Dahdon		Webb R	d	Α	
 2	6 □*Boring 7 □ Diarnond	9 Driving 10 Digging 11 Other				000	
4 🗆 Rotary (air)	8 Detting					238	ან ა
Name of Well Contractor		Well Contractor's Licence No.	Data	58 Contractor	59-62 Date re		ついしつ _{284 80}
Wilson Water	Wells 41	5459	Source Date of inspe		59 M	AY 0 9	2002**
K4 stanto	ilk		I SE CHINSP				
Name of Well Technician		Well Technician's Licence No.	Remarks			CS	S.ES
Signature of Technician Contracto	7	Submission date	Remarks				U.L.C
recelle	eer	day 75 m04 yr 02	2			0506 (07/0	0) Front Form !
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County or District		Township/Borough/City/To UXBRIDGE	own/Village		Con block	tract survey		25-27 12&1
		Address of Well Location 123 Hwy - 47	7 Uxb	ridge, ON		Date completed	26 1 m	l 02 onth year
21	Zone I	Easting Northing	R L L	1 1 1 1 1 1	RC Basin Code	ii	iii	iv
1 2		PF OVERBURDEN AND BEDRO	OCK MATE		octions)		Donth	1 - feet
General colour	Most common material	Other materials		Gen	eral description		From	То
Brown	Sand	Clay		Layered	·	••	0	40
Brown	Sand			Medium			40	55
Brown	Sand			Medium,	Clean		55	89
				•	·			
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	.,			•				
			_					-
31			لسبال					النجا
32 10 10 11 WATE	15 ER RECORD 51	CASING & OPEN HOLE R	J LILLI RECORD			65 1-33 Diameter	34-38 Leng	75 8th 39-40
Water found at - feet	Kind of water Inside	Wall Material thickness	Depth - f	то Ш	4 ^(A) & 10	6		5 feet
	Fresh 3 Sulphur 14 10-1	1 Steel 12 2 Galvanized		1 1 1 -	erial and type hnson S/	's	Depth at top	of screen 3 3 41-44 feet
	Fresh 3 Sulphur 19	3 □ Concrete 4 □ Open hole 5 □ Plastic	0	83	PLUGGING	& SEALING	RECORD	
20-23 1	Fresh 3 Sulphur 24	⁸ 1 □ Steel ¹⁹ 2 □ Galvanized 3 □ Concrete		20-23	Annular space		□ Abandonm	ent
25-28 1	Salty 6 Gas Gas Fresh 3 Sulphur 29 Fresh 4 Minerals	4 ☐ Open hole 5 ☐ Plastic		From 7 /9	То	Packe	•	
20.50	J Sality 6 ☐ Gas	2 Galvanized 3 Concrete		27-30		reen n		
	☐ Flesh 4 ☐ Minerals ☐ Salty 6 ☐ Gas	4 Open hole 5 Plastic		28	20° 0	Bensea	1	
Pumping test n	netho TR ⁰ Pumping rate 11	-14 Duration of pumping M 17-18 Hours Mins			LOCATION OF	WELL		
Static level	Nater level 25 Water levels during	1 Pumping 2 ☐ Recovery		n diagram below s ndicate herth by a	show distances o rrow.	of well from r	oad and lo	t line.
50 feet	75 feet feet 30 minutes 26-28	45 minutes 32:34 60 minutes 35:37 feet feet 75 feet		J.				الما
If flowing give r	ate 38-41 Pump intake set at	Water at end of test 42		£.				la
Recommended	pump type Recommended 4	feet Clear Cloudy 3-45 Recommended 48-49 pump rate 1		4				
☐ Shallow	ADeep pump seaming 73	pump rate 10 GPM		00	Hwy.	.17		
FINAL STATU		nt supply 9 🗆 Unfinished		<i></i>	1	_ 		
² ☐ Observati ³ ☐ Test hole	on well 6 Abandoned, poor qual 7 Abandoned (Other)				TO THE	હે		
	S5-56		/		W(Bain		
Domestic Stock	5 ☐ Commercial 6 ☐ Municipal	9 Dot use						
3 □ Irrigation 4 □ Industrial	 7 □ Public supply 5 □ Cooling & air condition 	ning						
METHOD OF	CONSTRUCTION 57 5	⁹ ☐ Oriving						
² ☐ Rotary (o ³ ☐ Rotary (re	onventional) ⁶ Boring everse) ⁷ Diamond	10 Digging)	92
⁴ X Rotary (a	ir) ⁶ ☐ Jetting			<u> </u>			<u> 2554</u>	-
Name of Well Cont Roger B	oadway Ent., Ltd	Well Contractor's Licence No. 1413	Data source	58 Confrac	413	59-62 Date rece	1 6 20	02 63-68 8
Address	Sutton West, ON		Date o	finspection	Inspector	,,,,,,,		· -
Name of Well Techn	nician	Well Technician's Licence No.	Hemar Remar	ks	<u> </u>			
Grant B		Submission date 26 11 02	JINIS			CSS	S.ES	2

Submission date

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Ministry of Environment

The Ontario Water Resources Act WATER WELL RECORD

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and Energy Print only in spaces provided. Municipality Con. 1916758 Mark correct box with a checkmark, where applicable. 11 Township/Berough/City/Town/Village Con block tract survey, etc. Lot County or District آ2 m Date /6 03 completed month Basin Code 21 +++1 LOG OF OVERBURDEN AND BEDROCK MATERIALS (see instructions) Depth - feet General colour From 6 28 28 <u>33</u> 3*3* 33 WATER RECORD CASING & OPEN HOLE RECORD 51 41 Water found at - feet Inside diam inches Wall thickness Depth - feet SCREEN Kind of water То inches 1 Steel
2 Galvanized
3 Concrete
4 Open hole
5 Plastic □ Sulphur
□ Minerals
□ Gas Fresh 22 146 ₂ ☐ Salty 88 O ☐ Sulphur ☐ Minerals + □ Fresh PLUGGING & SEALING RECORD 61 2 G Saltv □ Gas 1 Steel
2 Galvanized
3 Concrete
4 Open hole
5 Plastic 20-23 ı ☐ Fresh 2 Galty From Gas Sulphur Minerals Gas 1 🗆 Fresh σ 1 Steel
2 Galvanized
3 Concrete
4 Open hole
5 Plastic 27-30 2 Salty 1 ☐ Fresh 2 ☐ Salty 30-33 Pumping test method
Pump 2 Ba ູ່ຊ LOCATION OF WELL Mins 2 | Bailer In diagram below show distances of well from road and lot line. Water level Water levels during Pumping 2 ☐ Recovery Static level Indicate north by arrow. end of pumpir 42.9 42.8 3 42.73 PUMPING If flowing give rate Clear GPM □ Cloudy 43-45 Recommended pump type pump rate Deep ☐ Shallow GPM FINAL STATUS OF WELL 5 ☐ Abandoned, insufficient supply 6 ☐ Abandoned, poor quality 7 ∑ Abandoned (Other) 8 ☐ Dewatering 9 ☐ Unfinished 16 ☐ Replacement Water supply
 □ Observation well ☐ Test hole
☐ Recharge well WATER USE 55-56 Commercial
 Municipal
 Public supply
 Cooling & air conditioning 9 ☐ Not use 10 🗆 Qther ... METHOD OF CONSTRUCTION 57 5 Air percussion
6 Boring
7 Diamond
8 Jetting Cable tool
Rotary (conventional)
Cable tool
Rotary (reverse)
Rotary (air) 9 ☐ Driving
10 ☐ Digging
11 ☐ Other... 264185 5 4 ONLY OCT 2 1 2003 source Date of inspection USE (MINISTRY Remarks CSS ES!

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	Depth From		Diame /letres To	Diamete Centimetr	1	Inside diam	Mate		Wall thickness	ord Depth	Metr	es	Pumping tes		Drav	V Down Vater Level		covery Water Level
	0	Z	22	6"		centimetres			centimetres Casing	From	То		Pump intake (metres) Pumping rat		min Static Level	Metres	min	Metres
			r Reco		ШΙ	2 2"	Steel Plastic Galvanize	Concrete	4"	0	21	a	(litres/min) Duration of the control of the contro		2		2	
24	Water found at Metre m Gas	s [Fresh Salty	i of Water Sulphu Minera	ar		Steel Plastic Galvanize					1	Final water I	evel end metres	3		3	
385	Other: m		Fresh Salty	Sulphu			Steel Plastic Galvanize					**************************************	type.	w	5		5	
	Other: m Gas Other:	Ė	Fresh Salty	Sulphu		Outside _f		Fibreglass	Screen Slot No.				Recommend rate.	min)	10 -15		10 15	
	After test of	d s	ediment			Ham L	Plastic Galvanize	d		2/2	22	2	If flowing giv (litres/r If pumping di- ued, give rea	min)	20 25 30		20 25 30	
	Other, s			□ No .		[Open hole		asing or Sci	een .					40 50 60		40 50 60	
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	Stock			☐Com ☐Muni	merc cipal	cial	™ N	ot used ooling & a	ir conditioning	. Outo	Audit No.	Z	0503	35 Date	e Well C	ompleted		۳۱ رچ <u>س</u>
	Water Su ✓ Observati Test Hol	on		Abandone	ed, ir ed, p	nsufficient su oor quality	pply □ D □ R	nfinished ewatering eplacemer	nt well	oned, (Other)	Was the package of			No	e Deliver	ed _{YY}	<u> </u>	MM DD
	Name of We	II C	1 OV	t name, nu	1	ractor/Tech	nician In	Tormation W	on Self-Contractor's 157	cence No.	Data Sou				tractor	54	U	9 MM DD
	Name of We	グラ	Chniciar	H	n	st name)	<u> </u>		Technician's	Ligence No.	Remarks		8~200 4 ™			Number	1	I-AVI DU
	Signature X 0506E (09/03		hnicia	ontractor	X	Contr	actor's Co	Dat •	Now 04 inistry's Copy	OST 17	ner's Copy			Cette fo	Consultation of	171 est dispor		n français
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⊗ C	nta	ario	Ministry of the Enviro	nment	Well Tag	Number (P	9	ticker and pri	nt number below)	Regu	ılation 90	3 Ontari			ecord
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 Quest 	tipns re	garding ¢	ompleting this	s applicatio	on dan be	e directed t	lþ th	e Water	nstructions an Well Manager	a explanatio ment Coord	ris are av linator at	416-23	in the ba	ICK OT	tnis form.
			ents shall be blue or black		to 1/10**	or a metr				1 831	nistry Us	e Only	1.5.		
Well Own First Name	ner's Ir	formatic	on and Loca Last Nam		ell Info		LL	MUN //	/ () / [on RF	/ R.Lot.Con	cession)		LOT	
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Ho	le Diam	eter		<u> </u>	Const	ruction Red	ord			1	Tes	st of We	ll Yield		
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- controls at 100 down 1400000			な"	Steel F	Fibreglass Concrete	1, 1		0	1/2	(litres/min)		1		1	
Water found	er Red	ord of Water	⊣ `	Galvanized	<u> </u>	4	ļ			Duration ofhrs +	pumping mir	2		2	
at Metres	Fresh	Sulphi	ur	Steel F	-					Final water of pumping		3		3	
Gas Other:	[] Salty	Miner	als	Galvanized Steel F		:	<u> </u>		· ·	Recommer type.		4		4	
L m □ Gas	Fresh	Sulphi	11 1	Plastic C					100	Recommer	low Deej ided pump	5		5	
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Gas Other:	Salty	1 === 1		Steel F	Fibreglass	Slot No.				rate. (litres If flowing g	/min)	15		15 20	
After test of		i 1	7 1	Plastic C			/	12	122	(litres	/min)	25		25	
Clear and Other, sp		rit free	<u> </u>	·		sing or Sc	reer	<u> </u>	The state of the second	If pumping of ued, give re	ason.	30 40		30 40	
Chlorinated	Yes	□No		Open hole								50 60		50 60	
	Plug	ging and	Sealing Reco	rd 3	Annular			donment			ocation				
Depth set at From	То	Material and	l type (bentonite s	lurry, neat cen	nent slurry)			Placed etres)	In diagram below Indicate north by		ces of well f	rom road,	lot line, :	and bu	ilding.
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			Method of	Constructio	on ·		-		Durke	m 30					3
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Stock Irrigation			nmercial nicipal	<u> </u>	ot used ooling & air	conditioning			Audit No. 7	050	2 C Da	ate Well C	ompleted	/Y	MM DD
Water Su	polv	Recharge		tus of Well	nfinished **	Aban	one	d, (Other)	Was the well or	vner's informat	ion Da	ate Deliver	ed Y	YYY	MM DD
Observation	on well	Abandor	ned, insufficient s led, poor quality	upply 🗒 De	ewatering eplacement				package delivere		s No				<u> </u>
Marne of Wor		Well C	ontractor/Tec		formatio		Lice	nce No.	Data Source	М	Inistry Us	ontractor	<u> </u>	K	<u> </u>
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 All Sectio 	ns must be co	mpleted in t	full to avoid delay:	s in processin	g. Further i	nstructions and	d explanations are av nent Coordinator at	ailable o	n the ba	ck of I	his for
 All metre 	measurement	ts shall be	reported to 1/10	th of a metre.	<u> </u>	Anger a Carlo	Ministry Us	3	· · · · · ·		
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GasS Other:	Salty	Outside diam	Steel Fibreglass Plastic Concrete	Slot No.	late 1	1441	(litres/min) If flowing give rate -	15 5	4.0	15 20	
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Casing and Screen Record		Pumpin		
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Type of screen Alot # 6 Johnson steinles stell	= :: :			
Length of screen				
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and the second	18	42		
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(Signature of Licensed Drilling of Boring Contractor)		44-44		+ 9
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The Ontario Water Resources Commission Act ATER WELL RECORD 4604231 MUNICIP. 46009 CON. 10 115 1. PRINT ONLY IN SPACES PROVIDED 2. CHECK CORRECT BOX WHERE APPLICABL TOWNSHIP, BOROUGH, CITY, TOWN DIZ ONTARIO Ux82106E DATE COMPLETED ENTURYCITY 12 Sheppard Que 21 241 AND BEDROCK MATERIALS (SEE INSTRUCTIONS) MOST OTHER MATERIALS DEPTH GENERAL DESCRIPTION 1 フォ bookled 1 1 agrotelastagin lagarbagining laggistagin basilagi 90.7.3.2.9.50609 908/609/1/0st 1/4020st/// 1 1 1 1 54 51 CASING & OPEN HOLE RECORD WATER RECORD DEPTH KIND OF WATER WALL THICKNESS MATERIAL MATERIAL AND TYPE 015 FRESH 2 SALTY 3 🗌 SULPHUR NA 4 - MINERAL GALVANIZED 3 SULPHUR 4 MINERAL 1 🗆 FRESH ☐ CONCRETE 61 PLUGGING SEALING RECORD 2 SALTY DEPTH SET AT - FEET 1 STEEL (CEMENT GROUT, LEAD PACKER, ETC.) 1 🗆 FRESH 3 🗆 SULPHUR MATERIAL AND TYPE GALVANIZED 2 🗆 SALTY 4 MINERAL 3 ☐ CONCRETE OPEN HOLE 1 ☐ FRESH 3 - SULPHUR N 22-25 4 | MINERAL 1 ☐ STEEL GALVANIZED ↑ 🔲 FRESH 3 | SULPHUR 3 CONCRETE 4 MINERAL 2 SALTY LOCATION OF WELL WATER LEVEL END OF PUMPING 1 PUMPING THE MAS RAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW. STATIC LEVEL WATER LEVELS DURING 30 MINUTES 29-3 60 MINUTES 35-3 FEET FEET 0003 1 CLEAR RECOMMENDED PUM RECOMMENDED PUMP SETTING SHALLOW 14 FEET RATE A CANDWHEAD FORTH SITE 1 WATER SUPPLY **FINAL** OBSERVATION WELL 6 ABANDONED, POOR QUALITY **STATUS** 3 TEST HOLE 4 RECHARGE WELL OF WELL 5 COMMERCIAL 1 DOMESTIC 6 MUNICIPAL 7 PUBLIC SUPPLY 2 STOCK WATER 3 ☐ iRRIGATION USE 09 AIR CONDITIONING ☐ OTHER NOT USED LOCABLE TOOL 6 [] BORING METHOD ROTARY (CONVENTIONAL) 7. DIAMOND OF DRILLING ROTARY (REVERSE) 4 - ROTARY (AIR) 9 DRIVING 5 AIR PERCUSSION 0 11269°° ONLY 280 office lec . USE OFFICE

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TINAL STATIC LEVEL IF FLOWING GIVE RATE WATER USE OF WATER USE OF NAME OF WELL	SALTY 4 MINERAL RESH 3 SULPHUR 19 SALTY 4 MINERAL RESH 3 SULPHUR 24 SALTY 4 MINERAL RESH 3 SULPHUR 34 80 FRESH 3 SULPHUR 34 80 F	10-11 STEEL 2 GALVANIZED 3 CONCRETE 4 OPEN HOLE 17-18 1 STEEL 2 GALVANIZED 3 CONCRETE 4 OPEN HOLE 24-25 1 STEEL 2 GALVANIZED 3 CONCRETE 4 OPEN HOLE 24-25 1 STEEL 2 GALVANIZED 3 CONCRETE 4 OPEN HOLE 24-25 1 STEEL 2 GALVANIZED 3 CONCRETE 4 OPEN HOLE 3 CONCRETE 4 OPEN HOLE 4 OPEN HOLE 4 OPEN HOLE 5 GAM STEEL 6 ABANDONED 6 ABANDONED, INSU 6 ABANDONED, POO 7 UNFINISHED 5 COMMERCIAL 6 MUNICIPAL 7 PUBLIC SUPPLY 8 COOLING OR AIR CON 9 NO ONAL) 6 BORING ONAL) 7 DIAMOND 8 JETTING 9 DRIVING	PUMPING 19 26 PUMPING 5-16 DORS RECOVERY ES 60 MINUTES 32-34 FEET D OF TEST 42 R 21 CLOUDY D 46-49 GPM. UFFICIENT SUPPLY DR QUALITY NDITIONING TUSED ICENCE NUMBER 3397	DRILLERS REMARK	61 PLUGGI DEPTH SET AT - FEET FROM TO 10-13 14 22- 26-29 30- LOCATIC RAFRAM BELOW SHOW PIS LINE: INDICATE NORTH B	MG & SEA MATERIAL AN 17 25 33 80 N OF WE STANCES OF WELL F Y ARROW. 59-62 DATE RECEIVE CC	LL ROM ROAD AND	FEET ECORD MENT GROUT, PACKER, ETC.)

DUT: 11.7 2 6 4 13 8 4 E	3	1036	A/	100 WATER 100 100 100 100 100 100 100 100 100 10	8478
Basin or District To	rchue ownship	RECO CK- Stov Village, To	RDURCE	(#36) .	el)3
Let /3	ate com	اللا ب	ay 43/	touffvir	Jean)
Casing and Screen Record			Pumping	Test	
Inside diameter of casing 3# Total length of casing.	Test-		e	3	G.P.M.
Type of screen					
Length of screen	Wate	er clear or clo	udy at end of	test Ale	ar
Depth to top of screen Diameter of finished hole 34	Dog	mmended n	umping rate	7 feet below	G.P.M.
Well Log					Record Kind of water
Overburden and Bedrock Record		From ft.	To ft.	Depth(s) at which water(s) found	(fresh, salty, sulphur)
Dack Topsail sandy		0			
- At the state of			9		
yellow sandy stay		9	22		
example of soulders 6-12"		22	25	25	pesh
grave of sources		- 45	29	 	/
grey clay		رين	de /		
For what purpose(s) is the water to be used? Is well on upland, in valley, or on hillside? Drilling or Boring Firm Address Licence Number Address Date Address Date		In diagra road and	am below sho	of Well w distances of wondicate north by 7 9 7 9 7 8 CON/6	arrow.
(Signature of Licensed Drilling or Boring Contractor) Form 7 10M-62-1152 OWRC COPY		e acestes			.S.58

The Ontario Water Resources Commission Act

CO		WELL WELL	RECORD	P
Water management in Ontario 1, pRI	NT ONLY IN SPACES PROVIDED	<u> </u>	6909956 MUNICIP. GOO.	N 1 22 23 24
2. CHE		SH, CITY, TOWN, VILLAGE	HURCH- CON., BLOCK, TRACT, SURVEY, ETC. CON. 10	0/0
V	Hali I c	HURCHISTOUF TOUF FVILLE	PVILCE DATE COM	7 MO. 04 YR. 70
		RC. ELEVATI	ON JS GRC. BASIN CODE II	<u>III</u> <u>IV</u>
1 2 M 10 /	LOG OF OVERBU	POEN AND BEDROCK M	TERIALS (SEE INSTRUCTIONS)	
GENERAL COLOUR COMMON	ST OTHE	R MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM TO
brown C		me stones	surface	0' 18'
brown gr	avel som	re sands		18' 39'
brown sa	nd c	oarse	/oose	
				.6
		, , , , , , , ,	<u> </u>	
(31) Laanslasta	2 003961109			75 60
32 10 14 15 WATER REC	CORD 51 GASING	G & OPEN HOLE REC	SIZE(5) OF OPENING 31-33 DI	AMETER 34-38 LENGTH 39-40
WATER FOUND KIND OF	WATER INSIDE MATERIAL	TERIAL WALL DEPTH - THICKNESS INCHES FROM	TO MATERIAL AND TYPE	DEPTH TO TOP 41-44 80 OF SCREEN
	3410-11 1 STE	LVANIZED NCRETE 25	61 PLUGGING & SE	ALING RECORD
2 SALTY	4 OPI	EN HOLE	DEPTH SET AT - FEET MATERIAL FROM TO MATERIAL	CEMENT GROUT.
² ☐ SALTY	3 SULPHUR 2 GAI 4 MINERAL 3 CO	LVANIZED NCRETE EN HOLE	10-13 14-17	
2 ☐ SALTY	3 SULPHUR 24-25 1 STI	EEL 26 LVANIZED	27-30 18-21 22-25 26-29 30-33 80	
1 FRESH 2 SALTY	4 MINERAL 4 OP	NCRETE EN HOLE	LOCATION OF W	(E) 1
PUMPING TEST METHOD	Su tant	RATION OF PUNPING	LOCATION OF W	L FROM ROAD AND
STATIC END O	WATER LEVELS DURING	1 PUMPING 2 RECOVERY 45 MINUTES 60 MINUTES	LOT LINE. INDICATE NORTH BY ARROW.	T FROM ROAD AND COUNT
040	25-28 1/1 Sh 7	32-34 35-37 FEET FEET	1 60	county of County
Z IF FLOWING, GIVE RATE	38-41 PUMP INTAKE SET AT	ATER AT END OF TEST 42	2)	6011
RECOMMENDED PUMP TYPE	RECOMMENDED 43-45 R	ECOMMENDED 46-49 UMPING ATE OOO GPM.	//	-/ 13
<u> </u>	GPM./FT. SPECIFIC CAPACITY		COND LOTESO	<u>;</u>
FINAL	OBSERVATION WELL 6 ABANG	DONED, INSUFFICIENT SUPPLY DONED, POOR QUALITY	A HANS	
OF WELL 40	RECHARGE WELL			
WATER 3	STOCK 6 MUNICIPA IRRIGATION 7 PUBLIC S	L UPPLY	* severinter	es / V
USE O/ 40	☐ INDUSTRIAL 8 ☐ COOLING	OR AIR CONDITIONING 9 NOT USED		70
METHOD 2	DERET (CONVENTIONAL)	BORING DIAMOND	/	× < 70' 7
DRILLING . 40	I ROLATI (REFERSE)	☐ JETTING ☐ DRIVING	ILLERS REMARKS:	
NAME OF WELL CONTRAC	TOD A.4	LICENCE NUMBER	DATA 58 CONTRACTOR 59-62 DATE SOURCE / 5459	270770
O Wilson	Water Wells a			OIF.
NAME OF DRILLER OF BO	OREA Horm	LICENCE NUMBER		
SIGNATURE OF CONTRACT	TOR Wilson DAY.	IISSION DATE		J.B.
1 Villia	n Wilson DAY.	A O MO O Z YRZO	<u>।</u>	

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The Ontario Water Resources Commission Act

	The Ontario W						
	VATER V	N EI	6914	_	MUNICIP	CON.	
Vater management in Ontario 1. PRINT ONL 2. CHECK DUNTY OR DISTRICT	Y IN SPACES PROVIDED CORRECT BOX WHERE APPLICABLE TOWNSHIP, BOROUGH, CITY,	TOWN VILLAGE			69 009 , BLOCK, TRACT, SURVEY,	CQ N	22 23
YORK	Whitchick			9	- Con	DATE COMPLETED A	8010
	R1-S	TOUF	FVICE	1= .		DAY 29 MO	<u> 2 / 2</u>
	7.4.	3570		<u> </u>	BASIN CODE 2#		
MOST	LOG OF OVERBURDEN		ROCK MATER	RIALS (SEE	INSTRUCTIONS)	DEP	TH — FEET
COMMON MATERIA	OTHER MATE	RIALS		GENER	AL DESCRIPTION	FROM	T0
Allow of	<i>i</i> ,					15	32
1 and						30	46
april 1						40	42
		 -					
	2030 11 0040	 	1 100 Kd 13	% _			111
10 :4 15	1 32				54	1 65	1 1
WATER RECORD	CASING & O	PEN HOL	E RECORE	Z SIZE (SLOT	s) OF OPENING OF O	33 0 250	LENGTH 3
AT - FEET KIND OF WATER AT - FEET SIND OF WATER		THICKNESS	FROM TO	J WATE	RIAL AND TYPE	DEPTH TO TO	-
2 SALTY 4 MINERA 15-18 1 FRESH 3 SULPHU	L 2 GALVANIZED 3 CONCRETE	\$			LUGGING &	SEALING I	RECORD
20-23 1 FRESH 3 SULPHU	17-18 1 ☐ STEEL 19 R 2 ☐ GALVANIZED		20-	DEPTH FROM	SET AT - FEET MATE		CEMENT GROUT, D PACKER, ETC
2 SALTY 4 MINERA 25-28 1 FRESH 3 SULPHU	R 29 4 OPEN HOLE		27-	_ +>	3-21 22-25		
2 SALTY 4 MINERA 30-33 1 FRESH 3 SULPHU 2 SALTY 4 MINERA	R 34 80 2 GALVANIZED 3 CONCRETE			26	29 30-33 80		
PUMPING TEST METHOD 10 PUMPIN		MPING	<u></u>		OCATION OF	WELL	
STATIC WATER LEVEL 25		SOO MINS	7 "	N DIAGRAM BEI	LOW SHOW DISTANCES OF CATE NORTH BY ARROW.		D
LEVEL PUMPING	2 R 20 R 20 R 20 R 20 R 20 R 20 R 20 R	BECOVERY 60 MINUTES 35-3	7		N		
FEET FEET IF FLOWING, 38-41 PUMP I	FEET FEET FEET NTAKE SET AT WATER AT END OF		ज ा		1		
GPM. RECOMMENDED PUMP TYPE RECOM	FEET 1 CLEAR MENDED 43-45 RECOMMENDED	2☐ CLOUDY		BLOMIN	VYTON SHITE	ROAD	. a
SHALLOW DEEP SETTING	FEET PUMPING RATE SPECIFIC CAPACITY	GPM.	<u>. </u>		160	13. MA	GIPP I PC
FINAL 54 1 X WATER SUP	PLY ⁵ ABANDONED, INSUFF		<u>י</u> עוד			"Stre	Ē
STATUS 2 OBSERVATION 3 TEST HOLE 4 RECHARGE	7 UNFINISHED	QUALITY		,		ني	
55-56 I DOMESTIC	5 COMMERCIAL 6 MUNICIPAL		1	٤.		5	
WATER USE IRRIGATION 4 □ INDUSTRIAL	7 PUBLIC SUPPLY 8 COOLING OR AIR COND!			Q		J.	
□ OTHER	9 □ NOT (6 □ BORING	USED	1	8			
	NVENTIONAL) 7 DIAMOND		1 1			f	
OF 3 □ ROTARY (RI					_	f	
OF 3 ROTARY (RI 4 ROTARY (AI 5 AIR PERCUS	R) 9 □ DRIVING SION		DRILLERS REM		S	1	
OF 3 ROTARY (RI 4 ROTARY (AI 5 AIR PERCUS	R) 9 □ DRIVING SION □ LICE	nce humber	DATA	58 C	****	27 27	′ ე ⁶³⁻⁶⁸
OF DRILLING A ROTARY (AI ROTARY (AI ROTARY (AI S AIR PERCUS NAME OF WELL CONTRACTOR TO M M TO M TO M ADDRESS ADDRESS TO W T	SION 9 DRIVING LICE 5	417	DATA SOURCE DATE OF IN	58 C	ONTRACTOR 59-62 (A) *?**() 27	
OF 3 ROTARY (RI 4 ROTARY (AI 5 AIR PERCUS	SION 9 DRIVING LICE 5		DATA SOURCE DATE OF IN REMARKS:	58 C	INSPECTOR	27	′ () "°°° P

3115/35

MINISTRY OF THE ENVIRONMENT COPY

The Ontario Water Resources Act 3103£.

FORM NO. 0506-4--77

Intario	ironment 1. Print only in Spaci 2. Check ⊠ Correct I	OOX WHERE APPLICABLE	691521	10 14 15	9N	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
OUNTY OR DISTRICT		TOWNSHIP, BOROUGH, CITY, TOWN, VILL		CON , BLOCK, TRACT, SURVEY, ETC	00	9
		.R.#3 ST	UFFVILLE	DATE	5 MO OCT	.53 - yr. <u>7</u>
2,	M CALL	1NG 7.400.0	5 7025	SC MASIN CODE "		iy J J
7		OF OVERBURDEN AND BE	DROCK MATERIAL			
ENERAL COLOUR	MOST COMNON MATERIAL	OTHER MATERIALS		GENERAL DESCRIPTION	DEPTH -	FEET TO
				DUG WELL	0	3 0
BROWN	SAND			LOOSE	30	35
GRAY	GRAVEL	CLAY		LOOSE	35	42
GRAY	CLAT	SAND		SOFT	42	108
GRAY	CLAY	SAND		HARD	108	130
GRAY	SAND		MEDIUM	WATERBEARING	130	138
100	2011221 1 1 1 2020V	1001aH 1 K2 2 21911 11N1	170 IA (A \$12 IA \$15	4 ISF 10.130140.5 128 1731 1	<u> </u> ୦ / ୧୧)୭ /୦୧ / ୦	
31 \ \(\alpha\)(\alpha\)			1. 11 11.1	<u> </u>	PA PARAMETER	
10	ATER RECORD	CASING & OPEN H	OLE RECORD	SIZE(S) OF OPENING (16 31-33	1	75 NGTH
TER FOUND	KIND OF WATER	NSIDE WALL DIAM MATERIAL THICKNESS	DEPTH - FEET FROM TO	S ISLOT NO C / (-	DEPTH TO TOP	<u>ે3</u>
	FRESH 3 SULPHUR 14 SALTY 4 MINERAL	10-11 15-STEEL 12 188	—	JOHNSON S. STEEL	135	FEET
13-14	FRESH 3 SULPHUR 19 SALTY 4 MINERAL	G GALVANIZED CONCRETE GOPEN HOLE	.	61 PLUGGING & S	EALING RECO	RD
20-23 (FRESH 3 SULPHUR 24	17-18 STEEL 19 2 GALVANIZED	20-23	PEPTH SET AT - FEET MATERIAL FROM TO		T GROUT
	SALTY 6 MINERAL 29 SULPHUR 29	CONCRETE OPEN HOLE		10-13 14-17		
2	SALTY 4 MINERAL	24-25 1 STEEL 26 2 GALVANIZED	27-30	16-21 22-25 26-29 30-33 80		
י ו	FRESH 3 SULPHUR SALTY 4 MENERAL	3 CONCRETE 4 OPEN HOLE		26-24 30-33		
PUMPING TEST N	2 BAILER CO15	1)-14 DURATION OF PUMPING O1 15-16 OC	17-10	LOCATION OF W	ELL'	
STATIC	WATER LEVEL 25 END OF WATER LEVE	GPM HOURS	_ MIN2 }	GRAM BELOW SHOW DISTANCES OF W NE INDICATE NORTH BY ARROW.	ELL FROM ROAD AN	iD
016	PUMPING -21 22-24 IS MINUTES 26-28	30 MINUTES 45 MINUTES 60 MIN 29-31 32-34	17 ES 35-37 Bloc	ominaton, S.K. 11	Hwy 47	7
	FEET CAOFEET		9 1111	4		
IF FLOWING. GIVE RATE	GPM	FEET 1 TCLEAR 2 CL	I	1 1	\wedge	
RECOMMENDED SHALL	PUMP TYPE RECOMMENDED PUMP OW DEEP SETTING ZE	43-45 RECONNENDED OCO S PUMPING RATE	GPM	.150	, i	
50-53					N	
FINAL	1 WATER SUPPLY 2 OBSERVATION WELL	S ABANDONED, INSUFFICIENT SU B ABANDONED POOR QUALITY	PPLY			
STATUS OF WELL	1 TEST HOLE 1 RECHARGE WELL	7 UNFINISHED	.6	Shill set it		
	2 D STOCK	COMMERCIAL MUNICIPAL			/	
WATER USE		PUBLIC SUPPLY COOLING OR AIR CONDITIONING		1112		
	OTHER	• □ NOT USED		W. areka		
METHOD	· _ · ·			The mi		
OF DRILLING	G POTARY (REVERSE) ROTARY (AIR) AIR PERCUSSION	■ □ JETTING ■ □ DRIVING		The second second		
NIME OF WE	LL CONTRACTOR	LICENCE NUMBE	DRILLERS REMARK	× -	CEUVED PA	004
	ELL DRILLING	4738	Source	1 4738 2	9"117	9
ADDRESS ADDRESS ADDRESS ANAME OF DRI FARL SIGNATURE OF	h RD. STOUFFVILI	`. . ₽:	DATE OF INSPE	CTION INSPECTOR		
NAME OF DRI	LLER OR BORER SAUDER		REMARKS			-
SIGNATURE O		SUBMISSION DATE	70	css.	88 Polis	
carl	Saucler	DAY 27 NO	*/ P 1/2/ 1/2	six a profession	191 T	



Ontario	1. PRINT ONLY IN	SPACES PROVIDED	692033	26 63009	<u>CON109</u>
COUNTY OR DISTRICT		TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	TOUFEIN	CON BLOCK TRACT SURVEY E	TC LOT 39-27
		STO	a 1 - 6 2011	**	DAY L MO 10 YR FF BE
		NG NG	C ELEVATION	RC BASIN CODE	69 In 109
1 2.	¥ 10 12	OG OF OVERBURDEN AND BEDR	OCK MATERIAL	S (SEE INSTRUCTIONS)	47
GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS		GENERAL DESCRIPTION	DEPTH - FEET FROM TO
Brown	6-124	F184			0 6
Brown	STAN	F1218			6' 32'
Blue	GLZY				32' 80'
Blue	Stnd	GOBTSE			80' 73'
	H			<i>f</i> .	
	-			//	
31			للسللم		ا للبلبلبيا ا
32			DEPOSED 1	SIZE STOP OPENING SI-S	85 75 80 3 DIAMETER 34-38 LENGTH 39-40
WATER FOUND	TER RECORD	51 CASING & CONTHOLE	DEPTH - FEET	W TOLON TOLON	6 INCHES H FEET
7 x P.13 1 8	FRESH 3 SULPHUR TA	10-11 1 STEEL 12	FROM 10	MATERIAL AND TYPE	DEPTH TO TOP 41-44 30 OF SCREEN
15-18 1	6 GAS FRESH 3 SULPHUR 19	2 D GALVANIZED 3 D CONCRETE 4 D OPEN HOLE 5 D PLASTIC	0 79 [61 PLUGGING 8	SEALING RECORD
20-23 1	FRESH 3 SULPHUR 24	17-18 1 STEEL 19	20-23	DEPTH SET AT - FEET MATE	ERIAL AND TYPE (CEMENT GROUT LEAD PACKER ETC)
	FRESH 3 SULPHUR 29	3 CONCRETE 4 COPEN HOLE 5 PLASTIC			nseal T
	SALTY 6 GAS FRESH 3 GSULPHUR 14 M	24-25 1 STEEL 26 2 GALVANIZED 3 CONCRETE	27-30	18-21 22-25 26-29 30-33 80	Holf Plub
1 5	SALTY 6 GAS	4 OPEN HOLE 5 OPLASTIC]		
71 PUMPING TEST ME	BAILER SUMPING RATI	E B-14 DURATION OF PUNPING 17-18 5PM	, ·	LOCATION OF	
STATIC LEVEL	PUMPING	EVELS DURING PUMPING 2 RECOVERY	IN DIAG	RAM BELOW SHOW DISTANCES OF INDICATE NORTH BY ARRO	
יין אר דונאר אייייין אר אר דונאר אייייין אר אר דונאר אייייין אר דונאר אר דונאר אר דונאר אר דונאר אר דונאר אר ד	80 60	1 7/ 23-31 8 32-34 1 35-33	11	:	4
Z IF FLOWING	38-41 PUMP INTAKE	SET AT WATER AT END OF TEST 48		1111	TX
IF FLOWING. GIVE RATE RECOMMENDED PL	GPM GPM GPM GPM GPM GPM GPM GPM GPM GPM		,	VIII	ارا
SHALLON	W DEEP SETTING	O FEET RATE /5 GPN	<u>-</u>		4/1
FINAL	MATER SUPPLY	S ABANDONED, INSUFFICIENT SUPPLY			\mathcal{N}
STATUS OF WELL	Z OBSERVATION WES	LL 6 ABANDONED POOR QUALITY 7 DUNFINISHED DEWATERING			
1	S-Se 1 DOMESTIC	5 COMMERCIAL			1000
WATER	2 STOCK 3 IRRIGATION 4 INDUSTRIAL*	Municipal Public Supply Cooling or air conditioning		500'	
	OTHER	NOT USED	BLOO	#10007	- Hwy 42-
METHOD OF	1 CABLE TOOL 2 ROTARY (CONVEN 3 ROTARY (REVERSE			MINGTON	- Hwy 47-
CONSTRUCT		DIGGING OTHER	DRILLERS REMARKS	/′	43190
NAME OF WELL		WELL CONTRACTOR	S) DATA	SE CONTRACTOR 52-52 DATE	E RECEIVED 81-06 80
ADDRESS	ntey Well	Drilling 7407	DATE OF INSPECT	24 U	APR 2 7 1989
A A A A	LL TECHNICIAN COM	md 1-1, W WELL TECHNICIAN'S			
CONTRACTOR OF WE STORY OF WE S	BIShop TECHNICIAN/CONTRACTOR	SUBMISSION DATE	OFFICE	, we see	
Bell	Bisko	DAY NO. YR.	Ö		•
MINISTRY	OF THE ENVIRON	MENT COPY			FORM NO. 0506 (11/86) FORM 9



The Ontario Water Resources Act

WATER WELL RECORD

Ontario	1. PRINT ONLY IN S	PACES PROVIDED CCT BOX WHERE APPLICABLE	11 (392270)9 <u>690</u> 0) <u>ଜ୍ୟୁତ୍ୟ</u>	ــــــــــــــــــــــــــــــــــــــ	1110
COUNTY OR DISTRICT	1	TOWNSHIP, BOROUGH CITY	TOWN STLAGE	week	CON . BLOCK, TRACT, SI	URVEY ETC		"O""
			1144			DATE COMPLE	TED 7"	94
		NG NG	NCI TI	ELEVATION	ec. BASHN CODE	DAY		iv .
1 2	10 12	1 1,5	24 25	26	36 31			47
	L C Most	G OF OVERBURDEN	<u> </u>	K MAIERIAL	GENERAL DESCRIPTION	<u> </u>	DEPTH -	
GENERAL COLOUR	COMMON MATERIAL	OTHER MAT	A		GENERAL BESCRIPTION		FROM	18
Brown	Clay	sand	<u> </u>				18	32
//	Sand		<u> </u>	_			32	37
	graver			100	zrol		37	46
11	Nave	clas	L.		arsl		46	5/
Brown	Agad	- Xuy		10	arsl		51	64
(C)								
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	<u> </u>		9 1 1 1 1 1	111	1 11 11	1 1 1 1		1 1 1
31 111			<u> </u>	<u> </u>	▗▋▗ ▍ ▗▗▋ ▗▎▗╏┇▗▗▗╏┆	<u> </u>	<u> </u>	
1 2 10	TER RECORD	51 CASING &	OPEN HOLE R	ECORD	SIZE(S) OF OPENING	31-33 DIAMETE	P 34-31 L	75 40 ENGTH 39-40
WATER FOUND AT - FEET	KIND OF WATER	INSIDE MATERIAL		EPTH - FEET	MATERIAL AND TYPE		INCHES DEPTH TO TOP	41-44 30
	SALTY 6 GAS	10)11 1 DSTEEL 2 GALVANIZED	2	13-16	S5 S5		61	FEET
15-18 1	FRESH 3 SULPHUR 4 MINERALS SALTY 6 GAS	3 CONCRETE 4 COPEN HOLE 5 PLASTIC	188 0			GING & SEALI	_	
20-23 1	FRESH 3 SULPHUR 24	17-18 1 STEEL 2 GALVANIZED	•	20-23	FROM TO	MATERIAL AND	TYPE LEAD PA	NT GROUT CKER. ETC >
25-28 1	FRESH 3 SULPHUR 4 MINERALS	3 CONCRETE 4 OPEN HOLE 5 PLASTIC	6	27.30	O 10-12 Q O 16-17	Bolepl	ug	
30.23	SALTY 6 GAS FRESH 3 SULPHUR 34 SU MINERALS	1 STEEL 2 GALVANIZED 3 CONCRETE 4 OPEN HOLE		}	26-29 39-33	80		
PUMPING TEST MI	SALTY 6 GAS	5 PLASTIC	PUMPING		10017101	N OF WELL		
171!!	2 STRAILER 2	() / 15	- a 1		GRAM BELOW SHOW DIST	ANCES OF WELL		ND -
STATIC LEVEL	PUNPING	LEVELS DURING 2 C	PUMPING .	LOT LI			KOM KOND A	
30°	55 45	1 7 0 1 2 2	5 60 MINUTES 1-34 557 FEET FEET				N	
IF FLOWING,	FET FET FE FE STATE FOR THE STATE FET STATE FE	SET AT WATER AT END	OF TEST 42	1	2		分 。	
IF FLOWING. GIVE RATE RECOMMENDED P	UMP TYPE RECOMMENDE	PEET						
SHALLO	DW DEEP SETTING	S FEET RATE	С СРМ	F	20-X			
FINAL	1 WATER SUPPLY	S ABANDONED, INSL		(4	15	•		
STATUS OF WELL	# OBSERVATION WE # TEST HOLE # RECHARGE WELL	LL 6 ABANDONED POO 7 UNFINISHED DEWATERING	R QUALITY	LINCO	LNVILLE	LANE		
	SS-SE 1 DOMESTIC	5 COMMERCIAL						
WATER USE	STOCK IRRIGATION INDUSTRIAL		DITIONING		ر ا	HWY		
Ų3E	OTHER	3 NO				1		
METHOD			,		\	`		
OF CONSTRUCT	ION ROTARY (REVERS	1 DRIVING	OTHER	DRILLERS REMARK			14	1506
NAMEZOF WELL	LEONTRACTOR #	<i>M</i>	L CONTRACTOR'S	DATA	SA CONTRACTOR	9 DATE PICELIVED		61-56 40
	lan waly	will 3	159	DATE OF INSPEC	545		1 2 199	F
TO PARTY	Stouble	lle	· · · · · · · · · · · · · · · · · · ·	M REMARKS				
CONTRACTOR	m Konon	0 7	LL TECHNICIAN'S		,			
SIGNATUME	TEGHNICIAN/CONTIACTOR	SUBMISSION DATE	7 ,94	OFFICE				
1//	Y OF THE ENVIRON					FOI	RM NO. 0506 (11/86) FORM 9

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0506 (11/98) Front Form 9

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(R) (ntario	Ministry of	Well Tag Number (Place		t number below)			Well R	lecord
$\mathbf{Q}\mathbf{Q}$	illailo	the Environment	_ A 0015	71 <u> </u>		Regulation 90:	3 Ontario	o Water Res	ources Act
Instruction	ns for Comple	ting Form	A001501					page	of
	· ·	e of Ontario only. This		nent legal	document. Ple	ease retain for futui	e refere	ence.	
All Sec.	tions must be	completed in full to avo	d delavs in processing	ı. Further ir	nstructions and	explanations are ava	ailable or	n the back of	f this form.
Questi	ons regarding of	ompleting this applicati	on can be directed to to to 1/10 th of a metre	he Water	Well Managem			5-6203.	
• Please	print clearly in	blue or black ink only.				Ministry Us	e Only		
Well Own	er's Informati	on and Location of V	Vell Information	MUN	co			LOT	
First Name	York Re	Last Name				r/Name, RR,Lot,Cond Ltd 1091 G	cession) orhan	and the second second	
County/Distr	ict/Municipality	Township	/City/Town/Village	Pro	ovince Postal	Code Tele		lumber (includ	le area code)
0-1	*.	ntv/District/Municipality)	ark et Tow	O nship	ntario L31	7V1		Concession	
Addressorv		intvii vistrictiviunicipality)			ch-Stouf	1 - 1 - 1)	9	
RR#/Street I	umber/Name			ity/Town/Vil		Site/Compa	artment/E	Block/Tract el	lc.
Lince GPS Readin	Inville NAD	Lane Zone Easting	Northing U	nit Make/Mo	odel Mode	of Operation: Und	differentiate	ed X Aver	raged
	813	17 640937		Magell	an	Diff	erentiated,	specify	
		Bedrock Materials (General	Description	 	Depth	AVIote
General Colo		ion material	Other Materials	-	General	Description		From	To
Black Brown	Topsoi	l clay & gravel						2	11
Brown Brown	11 -	sand & gravel						11	21
	Silty		trace cray			:		21	26
Brown Brown		sand & gravel			Mary 14	A STATE OF THE STA	<u>** </u>	26	37
Brown	1 1	gravel				<u> </u>	V.	37	94
Grey	Silty		gravel			bearing	•	94	110
Grey		gravel	5 			bearing bearing		110	113
Grey	sand	L· `	e gravel		water b			113	126
Grey	■ sand & e Diameter	gravel	Construction Reco	rd	water b		st of We	125 Il Yield	137
Depth	Motrod Diamet	er Inside	Wall	Depth	Hetre	Pumping test method			Recovery
<u> </u>	<u> </u>		rial thickness –	From	То			ater Level Time	
0	137 6"	contimetres	Continetres	1 10111	10	Pump intake set at -	Static	- 11	
		Mcho X Steel	Casing		T	(metres) Pumping rate -	Level 1	39	+
		2 " Plastic	in .	+3	107	(litres/min)			
	ter Record	Galvanize	' NER ALL			Duration of pumpinghrs + mir	2	2	-
Water found at Metres			·			Final water level end	3	3	
Gas	Fresh Sulph					of pumpingmetres	s		
Other:		Steel	Fibreglass		A	Recommended pump type.		4	
Gas	☐ Fresh ☐ Sulph ☐ Salty ☐ Mine	rals Plastic	Concrete			Shallow Deep Recommended pump	5	5	
Other:		Galvanize				depthmetres			
Gas	Fresh Sulph		Screen			rate. (litres/min)	10	10 15	
Other:	Joany	als Outside steel diam		107	137	If flowing give rate -	20	20	
	vell yield, water wa sediment free	S 2 # Galvanize		107	13/	(litres/min) If pumping discontin-	25 30	25 30	
Other, sp	-		No Casing or Scre	en		ued, give reason.	40	40	
Chlorinated	Yes No	☐ Open hol				10 mm 1 mm 1 mm 1 mm 1 mm 1 mm 1 mm 1 m	50	. 50	
C. IIOIIIIateu						<u></u>	60	60	
Denth set at-				andonment Placed	In diagram below	Location show distances of well f		lot line, and b	uilding.
1 1	1	d type (bentonite slurry, neat c	rinera siurry) etc. (cubic	metres)	Indicate north by				. 4
137	1 1	ica gand		-#·····					N
	1	tonite Chips				Blooming	ator		
97	2 Ben O Cem	tonite Slurry	& Chips						<u></u>
	O CEM								ine
	<u> </u>	Method of Construct	ion	1	1 0	lincolnvil	ic la	امر	
Cable Too				Digging			1. T		
Rotary (co			Jetting Driving ——	Other -					
		Water Use					4		****
Domestic			Public Supply 🔲 ·	Other				·	
Irrigation		nicipal 💮 🗍	Cooling & air conditioning		Audit No. 7	18670 Pa	ate Well C	ompleted	YM2 801
Interior Co.	noiv Rechard	Final Status of Wel	I Unfinished ☐ Abandor	ned. (Other)	Was the well ow	ner's information Da	ate Deliver	2003 red yyyy	12 01 MM DD
Water Sur Observation	n well Abando	ned, insufficient supply	Dewatering (, (00161)	package delivered	TIELS ILIOTHAUOT	-	; 1111 ₀	
Test Hole	Abando		Replacement well			Ministry Us	se Only		
Name of Well	Contractor		Well Contractor's Li	cence No.	Data Source	C	ontractor	266	2
G. Hart	& Sons ress (street name, r	Well Drilling	Lad T-2662		Date Received			ection yyyy	MM DD
P.O. 1	ox 850 F	enelon Falls	Ontaario		APF	2 U 2005 🔩			
Name of Well	Technician (last na n , Bryan	me, first name)	Well Technician's L	cence No.	Remarks	· - w	ell Record	l Number	esphie Server
Signature of	echnician/Contract	or	Date Submitted YYYY	MM DD	+				
x Co	all w	1447	ppy		ner's Cony 🖂	Coffe	formule .	est disponible	en francais
0506E (09/03)		Contractor's Co	λργ ∐ IVIII IISTIYS COPY [T MAGILOM	ioi a cohà []	Celle	,Jimuit (-arapornoie	. J nanyais

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Instruction	s for Comp
• For use	in the Provi i
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All met	re measuren

(R) (1)	ntario	Ministry of	Well Tag Number	A 001502	1		Well R	
		the Environment	A001502		Regulation 903	3 Ontari	o Water Reso page	ources Act
. 1	s for Comple		s document is a permar	ant local document. Pl] case retain for futur	ra rafar		
 All Sec 	tions must be o	completed in full to avo	id delays in processing.	Further instructions and	explanations are ava	ailable o	on the back of	this form.
QuestiAll me	ns regarding o	pmpleting this applicate the shall be reported	ion can be directed to that to the total to 1/10th of a metre. —	ne Water Well Managen			35-6203. —————	
 Please 	print clearly in	blue or black ink only.			Ministry Us	e Only		
	r's Information	on and Location of V	veli information	MUN CO		occion)	LOT	
First Name York	Region	Last Name	870	ng Address (Street Number Jagger Hims	Ltd 1091 G	orhai	m St	
	ct/Municipality	Township	o/City/Town/Village	Province Posta	Code 1	phone N	Number (include	e area code)
Address of W	ell Location (Cou	nty/District/Municipality)	Town	ship	Lot		Concession	
York F	egion	, w		Ltchurch-Stoui			9	
,	umber/Name nville L	ane	Cit	ty/Town/Village	Site/Compa	artment/	Block/Tract etc	6.
GPS Readin	NAD,	Zone Easting 1,7 640936		nit Make/Model Mode fagellan		tifferentiated		aged
Log of Ov	1010	Bedrock Materials (14602244		or or it is a coor,	, specify	i
General Colo		on material	Other Materials	Genera	I Description		Depth From	Meta
Black	Topsoi	1					0	2
Brown	Silty	Clay & Grave					2	13
Brown	Silty	sand & Grave			Andrews and the second		13	19
Brown		sand & Grave		AND THE RESIDENCE OF THE PROPERTY OF THE PROPE			19 28	28 38
Brown		sand & Crave	l Trace Clay					, p,
Brown	Sand &	Gravel		water be	aring		38	65
					-			į
Hole	Diameter		Construction Record	1	Tes	st of We	ll Yield	
Depth	veries Diamet	Inside	Wall	Depth Metres	Pumping test method	Draw	Down R	ecovery
From	To Guille	diam Mate	erial thickness	From To			ater Level Time	Water Level Metres
0	65 6"	continuatres	applitudes	110111 10	Pump intake set at -	Static		
		2" XSteel Plactic	Fibreglass		(metres) Pumping rate -	Level 1	39 1	
		2 Plastic	Concrete Sch 40	+3	(litres/min) Duration of pumping			
Water found	er Record / Kind of Wate	Galvanize	ed		hrs + min	2	2	
at Metres	Fresh Sulph		Fibreglass		Final water level end	3	3	
	Salty Miner		-		of pumping metres	4	4	
1	Fresh Sulph	Nur 1 1	Fibreglass		type. Shallow Deep	,		
	Salty Miner	I I Dicetto	<u> </u>		Recommended pump depth. metres		5	
	Fresh Sulph		Screen		Recommended pump		10	
Gas Other:	Salty Miner	Outside Steel	Fibreglass Slot No.		rate. (litres/min) If flowing give rate -	15 20	15 20	
	ell yield, water wa	Plastic [Concrete sch 40	40 65	(litres/min)	25	25	
	sediment free	Z" Galvanize			If pumping discontin- ued, give reason.	30	30	
Other, spe	Спу		No Casing or Scree	n		40 50	40 50	
Chlorinated [Yes No	Open hol	e			60	60	
Depth set at -		Sealing Record		ndonment In diagram hales	Location of the Location of th		let lies, and bu	ildina
From	To Iviale la all	type (bentonite slumy, neat c	ement slurry) etc. (cubic m	netres) Indicate north by	arrow.		- 1	A A
65		ca Sand			Bloomingt	13/1		N
37 21		onite Chips onite Slurry	*		Blooming			, +1
2	0 Ceme							10
					· · · · · · · · · · · · · · · · · · ·	`		
		Method of Construct			lincolny	110	lace !	
Cable Tool		I'''' =	Diamond Di Jetting Di	99"9				. •
Rotary (rev		ing 🔲	Driving —					
□ Domestic	□indi	Water Use	Public Supply	ther				
Stock	Cor	nmercial X	Not used ———	<u>r</u>		- \ II - II - II - A	Secretary.	
Irrigation	Mur	icipal Final Status of Wel	Cooling & air conditioning	Audit No. Z	18673	te weii C	completed YYYY 2003	MM DD.
Water Sup	"	_	Unfinished Abandone	· ' '	TION S INTO TIQUOT	te Deliver		MM DD
Observation Test Hole	Abandor	ed, poor quality	Dewatering Replacement well	package delivere				
Name of Well		ontractor/Technician I	nformation Well Contractor's Lice	ence No. Data Source	Ministry Us	e Only	2662	
G. Har	t & Sons	Well Drillin	ng LTd 2662				, , , , , ,	
Business Addr	ess (street name, n	umber, city etc.) Fenelon Fall:	s OntarioKOM 1	L NO Date Received	,p`Ř``Z Ů" ZŮŮS ^{Da}	te of Insp	ection YYYY	MM DØ
Name of Well	Technician (last nar	ie, first name)	Well Technician's Lice T-2441	ence No. Remarks		ell Record	Number	· · · · · · · · · · · · · · · · · · ·
Signature of T	a, Bryan chnician/Contracto		Data Submitted	MM DD				
x Clau	c edit	A Company of Transport		Well Owner's Copy	Cotte f	ormulo -	est disponible	en franccio
0506E (09/03)	ĺ	Contractor's Co	ריקה ואואו וואן γאר ∟ איי וואן עקנ Ivin iisu y s Copy ∟	*veil Owner's Copy [Cette	Jimul o 6	ot aispoilibl d	on nanyais

8	⊅nt	ario	Ministry of En	vironment	:			<u>i</u>	The		<i>Water R</i> R WEL	Day 2 - 1/2-	
		es provide			_					Municipa	dity Con.	√ "	
Mark corr	ect box	with a che	ckmark, where ap	plicable.	. [11	SHE	ET lo	FQ	10	14 15		22 23 24
County of York	District					Borough/City/T hurch-S			,	Con block	tract survey	•	25-27
Owner's s		` `	First Na	ıme	Address o	f Well Location	<u> </u>		1 M	<u></u>	Date completed	21	10 03 ⁵⁵⁰
York	res	ion	Zone	Easting		Northing			1 Newmar	Basin Code	<u> </u>	iii	onth year
21			¥ 17	t2	17	48741	24	EDIALS (see instructio	31	Abando	red N	3 1.0 0
General e	colour	Most	common material	G OF OVER		r materials	OCK WA	TERIALS (description		Depth	- feet To
Black	¢	Topso	11									0	3
Brown	1	Sandy	clay & gra	vel so	me san	d lense	3					3	28
Brown	1	Sand	& gravel	90	me sil	t		dry	,			28	43
Brown	1	Sandy	gravel					wet	@ 50*			43	98
Gray		Silty	sand					+	er beari	-	•	98	113
Gray		-	& gravel					wat	erbearing	8		113	140
Gray			clay & gra	vel								140	246
Gray			& gravel									246	248
Gray	!		clay & gra & Gravel	ivel								248 256	256 261
Gray			Page 2 for	· colour	• & ma	terial						261	529
31	3E GI	Laciica	rage 2 tol	. I . I . I	1 1		11				1.11		
32		1 1 1 1				<u> </u>							ب بیند لیا
± 41	WATE	R RECOR		1 CAS	SING & OF	EN HOLE F		- feet	Sizes of C (Slot No.)		Diameter	34-38 Lengt	h 39-40
Water fou at - feet	il l	Kind of	water c	nches	/laterial **	thickness inches	From	То	(Slot No.)	and type	ir	Depth at top o	
2 1. Aug.	2 [n n - a	Gas		Steel Balvanized Concrete	.280	-7	13-16	8				feet
10] Fresh ³ [] Salty 6 [] Sulphur 19] Minerals] Gas	0 1 5 □ F	10	.280	+3	525			& SEALING		
20		J Fresh ³ [J Salty ₈ [I Sulphur 24 I Minerals	2 0 0	Salvanized Concrete				Depth set at	Mate	erial and type (Cer	Abandonm	
25	5-28 1	Fresh 3 [Gas Sulphur 29 Minerals		Open hole Plastic		525	529 27-30	From 100	20° Ce	ment (1	O** pipe	<u>)</u>
34	<u> </u>	Salty 8	J`Gas J Sulphur ³⁴ ⁶⁰	שור אור	Salvanized Concrete	.380	h-73	20	52 9	7 Be	ntonit		ıt
		Salty 5] Minerals] Gas	1	Open hole Plastic	.300		20	28-79	733 80	Native	Soil	
	ing test n	nethod 10	Pumping rate	11-14 Dura	ation of pumpi 15-16 Hours	ng 17-18 Mins				ATION OF		# · · · ·	
Static		Vater level and of pumping		-		☐ Recovery			m below show north by arrow		of well from re	oad and lo	t line.
3 TEST	19-21	22-24	15 minutes 30 m	inules 45 m	ninutes 32-34	60 minutes 35-37	1 7					1	* **
Uf flow	feet ing give i	feet ate 38-41	feet Pump intake set at	feet Wate	feet er at end of tes	feet t 42	'	Bloom	instan				
Recom	mended ;	GPM oump type	Recommended		□ Clear commended	☐ Cloudy 46-49	f				ŀ		.
□ St	allow	□ Deep	pump setting	feet pu	mp rate	GPM				York/D	nham	Ras. A	?d1,30
	STATU	S OF WEL											
2 🗆 🖠	Water sur Doservati Test hole	oply on well	 ⁵ DAbandoned, Insu ⁶ DAbandoned, poo ⁷ DAbandoned (Oth 	r quality	⁹ □ Unfinish ¹⁰ □ Replace	ed ement well							
	Recharge	well	B ☐ Dewatering					Z	NCO/NUI	lle		}	
	Domestic		55-56 5		9 Not use				Lane				
3 🗆 1	Stock Irrigation Industrial		6 ☐ Münicipal 7 ☐ Public supply 8 ☐ Cooling & air cor	nditioning	Other			•					
METHO	D OF	CONSTRU	CTION 57			<u>.</u>							1
1 0	Cable too Fotary (c	il onventional)	5 ☐ Air percussion 6 ☐ Boring		9 ☐ Driving 10 ☐ Digging							- 1	
3 🗇 🗸	Flotary (re Flotary (a	everse)	 ⁷ □ Diamond ⁸ □ Jetting 	<u>.</u>	11 Other	· ·					- 4	<u> 2677</u>	00
Name of N	!			L		r's Licence No.	> Dat		58 Contractor	C C S	59-62 Date rece	ved	O 2005°°
Address			ell Drillin		2662		중	rce e of inspection		662 Inspector		APK (2009
Box 8	il <u>-</u>	ŀ	n Falls, ON		Well Technicis	n's Licence No.	JS N Be	marks					
Bryan	Wat	son.			T-2441		<u>E</u>	,	*				
Signature	of Techn	ician/Contract			Submission da day mo	ite yr	LSINIW	<u></u>		· · · · · · · · · · · · · · · · · · ·			
2 - 1	VIINIS		ENVIRONME		11.1	Y COPY						0506 (06/02) Front Form 9

Environment Print only in spaces provided.

Mark correct box with a checkmark, where applicable. WATER WELL RECORD

County or District		SHIET OF	es-			
York		Township/Borough/City/Town/Yillage Whitchurch-Stouffville		tract survey, etc.	Lot	
Owner's sumame York Region		Address do Jagger Hims.	Con. 9		10	
TOLK KESTON		1091 Gorham St., Ste 301, Newmarket	- ON	Date 21 completed	10	03
1 . #	Zone Easting	Northing	· , UN	. day	month	year
السلسا	l Lilliir					

General colour		1000	F OVERBURDEN AND BEDROCK MA	TERIALS (see instructions)	<u> </u>		
General Coloni:	Most con	imon material	Other materials	General description	Depth - feet		
			** Continued from Page 1		From	То	
Gray	Sandy (lay & grave					
Gray	Silty c	lay			261	271	
Gray		lay & grave		sticky	271	290	
Gray	Sandy c	lay & grave	· · · · · · · · · · · · · · · · · · ·	hard	290	353	
Gray	Sandy c				353	493	
		Lay	some gravel, some silt	enses	493	504	
Dark Grav Gray	Clay Silt		some gravel		504	521	
Black			some sand, gravel & o	lay	521	524	
DIACK	Shale				524	529	
		_				<u> </u>	

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* Page #2

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পি Ontar		Ministry of the Environment Well Tag Number			3493		,		Record			
			018493		Regulation	903 Onta	ter til med skriver i det i det skriver i det i det skriver i det skriver i det skriver i det skriver i det sk Det skriver i det skriver	esources Act				
Instructions for Co	-	rage : Lee			SHECT			e L of 5				
For use in the Pr	ovince of Ontai t be completed i	nce of Ontario only. This document is a permanent legal document. Please retain for future reference. completed in full to avoid delays in processing. Further instructions and explanations are available on the back of this form.										
 Questions regard 	ling completing t	his application ca	in be directed to t			nent Coordinator			O triis IOITI.			
 All metre meas Please print clea 		be reported to 1/ ok ink only.	10 ^m of a metre.			Ministry (Jse Only	7				
Well Owner's Infor	mation and Lo	cation of Well I			ON LOT							
First Name York Regions	Last Na	ame	Mail C / C	ling Address	s (Street Numbe	er/Name, RR,Lot,Co	ncessio	n) _ a a				
County/District/Municipa	llity	Township/City/I	Town/Village	Pro	ovince Posta	Ltd 1091 G	elephone	Number (inc	ude area code)			
. Address of Well Locatio	n (County/District/N	Newmar Municipality)		nship	Intario	L	ot	Concessi	on .			
YORK			Wh	itchu	rch-Stou	ffv111e	11	- 9				
RR#/Street Number/Na # Cairo Co		10	C	ity/Town/VII	liage	Site/Com	ipartmen	t/Block/Tract	etc.			
GPS Reading NAI	Zone Eas	ting P		nit Make/M		·	Indifferenti Differentiate		veraged			
Log of Overburder					CT 18	· · · · · · · · · · · · · · · · · · ·	y .					
General Colour Most	common material	Other	Materials		Genera	I Description		Depth From	Metre To			
	rey Gravel					f111			1			
	y Sand	some organics						1	3			
Brown Silt Brown Silt		Gravel Gravel					·	3	5			
1 1	y Clay &	L	And the state of t	de la descripción de la companya de la companya de la companya de la companya de la companya de la companya de	-	· ·		5	143			
	g sand &					<u> </u>		14	18			
	y Clay	some gra	rel	 				27	47			
	y Sand	some gra	the state of the s					47	50			
Brown Grav		silty sa		1.			in and	50	60			
Hole Diameter Depth Metres	Higherer	Co	onstruction Recor			Pumping test metho		Vell Yield	Recovery			
From To	diam	Material	Wall thickness	Depth	Meneal		Time	Water Level Ti	me Water Level			
0 21	10" MACA		Compiles	From	То	Pump Pump intake set at	min - Static	Metres m	nin Metres			
21 173	<u> 5"</u>	Steel Fibregli	Casing			(metres) Pumping rate -	1	91 1	60.3			
	61			⊁ 3	132	(litres/min) 452g	pm					
Water Record Water found Kind or	Water	Galvanized				Duration of pumping	2 nin 2	91.8	2 59.7			
at Metres	Sulphur	Steel Fibregla				Final water level en of pumping	d 3	91.9	3 59.3			
Gas Salty Other:	Minerals	Galvanized				Recommended pur	es ir 4	92 3	59.2			
	Sulphur	Steel Fibregli	1.			type. Shallow De	ер		- 160 0			
Gas Salty	Minerals	Galvanized				depth. 120 fetr		92.4	5 59.2			
m Fresh	Sulphur		Screen			Recommended pur	¹ P 10	92.5 1	0 58.9			
Gas Salty Other:	Minerals Outside diam	C Steel Fibregi		132	156	(litres/min) If flowing give rate -			5 58.7 0 58.6			
After test of well yield, wa		Plastic Concre	20.16.			(litres/min) If pumping discontin-	25	92.9 2	5			
Other, specify		N	o Casing or Scree	n		ued, give reason.		77.47	0			
Chlorinated Yes	No	Open hole		:			50	93.0 5	io			
	g and Sealing Re	cord Vi An	nular space 🔲 Aba	ndonment		Locatio			<u> </u>			
		e slumy, neat cement sl	Malinese	Placed	In diagram below Indicate north by	show distances of we			building.			
	entonite	Slures	31		AAir	Lifting 20)O to	300	<u>, </u>			
					V Gall	on Per Mir	ute		york/ Durham			
	****	·		•					Line.			
				,,, t		Ø			Rog Rd			
		f Construction			. , .	Cairo	-	A	30			
	Rolary (air) Air percussion	☐ Diamond		Digging Other			10	ork.				
Rotary (reverse)	Boting	☐ Driving			Block	nington_	1	~. · · ·	1_			
Domestic	Wa Industrial	iter Use	Supply $\Box c$	Other	"49"	1U 7 /						
Stock	Commercial Muhicipal	Not use	··· · . —		Audit No. es	ANNIA	Date Well	Completed				
	Final S	tatus of Well	7		Audit No. Z	10/10		ΞŽΏΥ	1222			
	echarge well bandoned, insufficien	ed, insufficient supply Dewatering ed, poor quality Replacement well				Was the well owner's information Date Delivered YYYY MM DD package delivered? Yes No						
Test Hole A	oandohed, poor qualit					Ministry Use Only						
Name of Well Contractor							Data Source Contractor					
G. Hart & So Business Address (street n	Date Received YYYY MM DD Date of Inspection YYYY MM DD											
L. II	Fanalon	Falle One	KOM 1 NO Well Technician's Lic	cence No	APR	2 0 12005						
			T=2441	CONCENS.	Remarks		AARII KGCC	ord Number				
Wasson Brya Signature of Technician/Co	ntractor		Date Submitted YYYY	MM DD								
0506E (09/03)		ontractor's Copy 🔲	Ministry's Copy	Well Own	ner's Copy 🗌	Cette	e formule	est disponit	ole en français			
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@ c		Ministry of Well Tag Number (Place sticker and print number below) Well Record							ecord	
	ntario	the Environment			Regulation 903 Ontario Water Resources Act					
	ons for Compl	. •		A018493	yrrhanant lags	al document. Pl	page d of 5			
All Se	ctions must be	completed in	full to avoid de	lays in proces	sing. Further	instructions and	explanations are nent Coordinato	available o	on the back of t	this form.
All me	etre measuren e print clearly in	ents shall be	reported to 1	/10 th of a met	tre.	vveii iviai lagei	<u> </u>	Use Only		
	e print cleany in er's Informat			Information	MUN		ON O		LOT	
First Name York	Region	Last Name Mailing Address				ss (Street Number/Name, RR,Lot,Concession) gger Hims Ltd 1091 Gorham St Suite 30				
	trict/Municipality	Township/City/Town/Village Pi				rovince Posta Ontario	l Code	Telephone !	Number (include	area code)
Address of V	Well Location (Co	unty/District/Mu	nicipality)		Township Whitchu	rch-Stouffville Lot			Concession 9	
RR#/Street	Number/Name	Lat 10		C		illage	Site/Co	mpartment/	Block/Tract etc	
GPS Readi	+	Zone Eastin 17 640		Northing 4874989	Unit Make/N		of Operation:	Undifferentiated	¥27%	ged
	verburden and	Bedrock M	aterials (see	instructions			I Description		Depth	
General Colo	 	non material Gravel	Othe	er Materials		General Description			From 60	63
Brown	Gravel	Graver	some	some sand					63	68
Brown	Silt					wet			68 88	88 108
Brown	Silt Silt			ine sand		water ndy clay	bearing	(vet)	108	116
Brown Brown	Sand		SOME II	ne sand,	aone sa		bearing	<u> </u>	116	131
Brown	41 1 1 1 1	Gravel					bearing		131	138
Brown Brown	Sand Sand &	Grave1	some gr	avel			baring bearing		138	141 145
Но	e Diameter			Construction R	ecord			Test of We		
Depth From	Metres Diame	tres diam	Material	Wall thickness		Metres	Pumping test met	Time W		Water Level Metres
. fi		centimetres	· · · · · · · · · · · · · · · · · · ·	Casing	es From	То	Pump intake set a		IVICUES ITAIN	Micuco
			Steel Fibre	glass			Pumping rate - (litres/min)	1	1	
Water found	ater Record		Plastic Conc	rete			Duration of pump	·	2	
Water found at Metre	Kind of Wat	!	Steel Fibre	[Final water level of pumping	end 3	3	
Gas Other:	Salty Mine	rals	Galvanized Steel Fibre	1			Recommended po	ump 4	4	
Gas	Fresh Sulp		Plastic Conc	~			Recommended p	ımp 5	5	-
Other	Fresh Sulp	hur	Galvanized	Screen		:	Recommended po	ump 10	10	
Gas Other:	Salty Mine		Steel Fibre				rate. (litres/min) If flowing give rate	15 ∋- 20	15 20	
	well yield, water water water water water	s	Plastic Conc	rete			(litres/min) If pumping discont	25	25 30	
Other, sp	1			No Casing or S	Screen	· · · · · · · · · · · · · · · · · · ·	ued, give reason.	40 50	40	
Chlorinated	Yes No		Open hole					60	60	
Depth set at		d Sealing Reco	ord A		Abandonment olume Placed	In diagram belov	Locat v show distances of v	on of Well vell from road	, lot line, and bu	ilding.
From	То	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		(0	cubic metres)	Indicate north by	arrow.			
		·							ye.	
Cable Too		tary (air)	Construction Diamo		Digging				e de la companya della	
☐ Rotary (or		percussion ring	Jetting Driving		Other					
Water Use ☐ Domestic ☐ Industrial ☐ Public Supply					Other		A STATE OF THE STA			
Stock Commercial Not used Cooling & air conditioning				Audit No. 7	18686	Date Well (Completed	MM DD		
☐ Water Su		ge well	tus of Well		andoned, (Other)		vner's information	Date Delive	red CODY	MM DD
☐ Test Hole ☐ Aband		ned, insufficient s ned, poor quality	Replac	cement well		package delivere	The second second	/ Use Only		
Name of We	Contractor,	A CONTRACTOR	chnician Inform	Well Contracto	r's Licence No.	Data Source	withsa	Contractor	26	<u>6 2</u>
G. Hart Business Ad	a Sons dress (street name, Box 850 F	well Dri	iling Lt	:d 26	<u>0Ζ</u> Ω	Date Received	? R ~>> 0 12005°	Date of Insp	pection YYYY	MM DD .
Name of We	Technician (last na n , Bryan	me, first name)	GYTS OUR		n's Licence No.	Remarks	IV C A CAPA	Well Recor	d Number	
Signature of	Technician/Contrac	ог	\$ The state of the					3.		
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(g) (ntario		istry of Environment	Well Tag N	lumber ((Place sticker and pri	nt number b	pelow)	Regulatio	n 903 (े Ontai	Well rio Water R		
		4! 6		A018	493						inger			of 3
• Focus	ns for Comple in the Province	ce of C	Ontario only. Th	is documen	t is a pe	ermanent lega	I docum	ent Plea	Se retain för	future	3 refe	rence.		
 All Sed 	tions must be	bomple	eted in full to av ting this applica	oid delavs ir	proces	ssina. Further i	instructio	ons and e	xplanations ar	e avai	lable	on the back	of thi	s form.
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	· -		r black ink only.		<u> </u>	MUN		CON	Ministr	y Use	Uniy	LC	т	
Well Own	er's Informati		d Location of ast Name	well intorn	nation	Mailing Address	s (Street	Number/N	lame, RR,Lot,	Conce	ssion) 6.		
York R			Townsh	ip/City/Town/	Villago		ger ovince	Hims I Postal C	Ltd 109			9.18 S.E. Number (ind		
County/Distri	ct/Municipality			narket	village		Ontario	1 Ostal O	, · · · · · · · · · · · · · · · · · · ·	ТОКОР	710110			
Address of W	ell Location (Cou	inty/Dis	strict/Municipality)			Township Whitchu	rch-	Stouf	fville	Lot		Concess	ion	
RR#/Street	lumber/Name 1ro Cour					City/Town/V	illage		Site/C		tment	/Block/Trac	t etc.	
GPS Readin		Zone	Easting	Northin		Unit Make/M		Mode of	Operation:	Undiff	erentia	ated A	verage	d
Log of Ov	8 3	.7	640929 ock Materials		4989		an.	<u> L : : : : : : : : : : : : : : : : : : </u>		Differ	entiate	d, specify		
General Colo	· · ·			Other Mater		<u>'</u>		General D	escription		·	Depth From		To
Brown	Sand		8084	e grave	1		Wat	er be	aring			145		165
Brown	Sand &	Gra		<u> </u>				er be				165		168
Grey			& Gravel	some	cop	bles						168		173
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Hol	e Diameter			Constr	uction R	lecord				Test	of W	ell Yield		
Depth From	Metres Diame To Centime	├ 	Inside Ma	terial	Wall thickness	Depth	Me	tres	Pumping test m	ethod .		w Down Vater Level T		overy ater Level
A FIGURE	10 Genune		diam wa ntimetres		centimetre		Т	·]	Pump intake set		min Static		nin	Metres
				C	asing				metres)	· I	_evet	2	_	
			ļ ,	Fibreglass Concrete					Pumping rate = litres/min)		1		1	
	ter Record		Galvani						Duration of pum		2		2	
Water found at Metres		L		Fibreglass					Final water leve		3		3	
Gas	Fresh Sulpl Salty Mine		Plastic [Concrete				I L	of pumping Recommended	netres				
Other:			Steel	Fibreglass	al a manda la Ballanda arranga				ype. Shallow	' '⊩	4		4	
Gas	Salty Mine		Plastic [Concrete				I I	Recommended depth.	pump netres	5		5	
Other:	Fresh Sulpl			200	Screen			11	Recommended		10		10	
Gas Other:	Salty Mine		Outside Steel	Fibreglass	Slot No.			- I L	ate. (litres/min) f flowing give ra) ite -	15 20		15 20	
	vell yield, water wa	s	Plastic	Concrete					(litres/min)	,	25		25- ,	
Clear and Other, spe	sediment free		[_]Galvani		sing or S	Screen			f pumping discor ued, give reason	ntin- ·	30 40		30 40	
			☐ Open h		ing or v	J010011			•		50		50	
Chlorinated	Yes No][60		60	
Depth set at -	Plugging and		ng Record entonite slurry, neat	Annular s	to Vo	Abandonment olume Placed	In diagr	am below sh	Loca now distances of	tion o			d buildi	ng,
From	То	и туре (Б	sentoniae siurry, rioux	ocinom orany, o	(c	cubic metres)	Indicate	north by an	row.					
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		B= - 4*	had of Courter	Hor								1.		
Cable Tool	/	Metr ary (air)		Diamond		Digging		•					٠	
Rotary (cor		percussi ing] Jetting] Driving		Other			, e ti	Ť				
			Water Use		41									
Domestic Stock		ustriai nmercial		Public Supply Not used		Other		· · · · · · · · · · · · · · · · · · ·						
Irrigation		nicipal	inal Status of W	Cooling & air o	conditionin	ng	Audit N	lo. Z	1868	Date	Well	Completed YYYY	M	M BB
☐ Water Sup		e well		Unfinished	☐ Aba	andoned, (Other)			r's information		Delive	ered yyy	$\overline{}$	M DD
Observation		ned, insu ned, poo	ufficient supply or quality	Dewatering Replacement	well		packag	e delivered?		نا				
8	Well		ctor/Technician	Information		or's Licence No.	Data S	ource **	Minist		Only tractor			
Name of Well G. Hart	. & Sons	Well	l Drillio		266		4						· ·	
Business Add	ress (street name, r	umber, d	city etc.) Lon Palls	7			Date R	eceived y	YYY MM DI	Date	of Ins	pection YYY	Y M 	M DD
Name of Well	Technician (last na	ne, first	name)	Well	Technicia	n's Licence No.	Remar	ks	·	Wel	Reco	rd Number		
Signature of	Bryan echnician/Contract			Date S	2441 Submitted	YYY MM DD	Cig.		, i i		j			
0506E (09/03)	eke wa) e	Contractor's 0			ppy ☐ Well Ow	ner's Cor	ov 🗆		ette fo	rmule	est disponi	ble en	français
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	Depth From 65 95 114 129 134 136 146 151 166 1

	linistry of ne Environment	Well Tag Number	A 032	909	Regulation 903 O	Well Record
Instructions for Completing	Form	A 055	909			page of
• For use in the Province of	f Ontario only. Th	is document is a per	manent lega	I document. P	ے ۔ lease retain for future re	eference.
 All Sections must be comp Questions regarding comp 	pleting this applicat	tion can be directed	to the Water	nstructions and Well Manager	d explanations are availal ment Coordinator at 410	ble on the back of this form. 6-235-6203.
 All metre measurements Please print clearly in blue 	shall be reported	d to 1/10 th of a metr	·e.		Ministry Use O	
Well Owner's Information a		Well Information	MUN	Co	ON NC	LOT
	1 : 37					
RR#/S/reet Number/Name		4 · .	City/Town/M	tchurc	Brita/Comporting	nent/Block/Tract etc.
Cano		1	<u> </u>	touth	will	sk
GPS Reading NAD Zone	640253	48 74 906	Unit Make/M	N Mode	of Operation: Undifferen	entiated Averaged tiated, specify
Log of Overburden and Bed General Colour Most common m		(see instructions) Other Materials			10	Depth Metres
BRAWN SAND	naterial	Other Materials		So	l Description	From To
GREY CIAY				<u> </u>	4	0 10
BROWN SAMP					SE	211 26
BROWN SAND		GRAVEL		f	OSE .	115 170
'						
	•					
The state of the s		:		<u> </u>		
Hole Diameter		Construction Re	cord	Fect	Test of	f Well Yield
Depth Metres Diameter	Inside	Wall	Depth	Metres	Pumping test method	Draw Down Recovery
From To Centimetres	diam Mate centimetres	thickness dentimetres	From	То	mi	ne Water Level Time Water Level in Metres min Metres
0 163 6		Casing		<u> </u>	Pump intake set at - Sta	1 6 6
162' 170' 5"		Fibreglass		14-1	Pumping rate - 1	
Water Record	6 ☐ Plastic ☐ Galvanize	Concrete ed	0	63'	Duration of pumping 2	61.5 2
Water found Air Kind of Water	Steel	Fibreglass			1 hrs + 0 min Final water level end 3	3 61 2 3
☐ Gas ☐ Salty ☐ Minerals	Plastic Galvanizo	_			of pumping metres	
Other:		Fibregiass			Recommended pump 4 type.	61.5 4
Gas Salty Minerals	Plastic	_			Recommended pump 5	61.5 5
Other: Sulphur	Galvanizo	Screen			Recommended pump 10	061,5 10
Gas Salty Minerals	Outside Steel	Fibreglass Slot No.			rate. (litres/min) 15	5 61.5 15
After test of well yield, water was	Plastic		163	170	If flowing give rate - 20 (litres/min) 25	
Clear and sediment free	Galvanizo	47.00		. , , 0	If pumping discontinued, give reason.	<u> </u>
	Open hol	No Casing or So	ireen	:	40 50	
Chlorinated Yes □ No					60	
Plugging and Sea Depth set at - Metres Material and type	ling Record (bentonite sturry, neat o	ement clum) etc. Volu	Abandonment ime Placed	In diagram belov	Location of V v show distances of well from	
From 10	INITE BEN	(CU	bic metres)	Indicate north by	arrow.	P.
U OM. BENIO	N, 18 BEAC	SC NO			the The	/ N
				ا دما	- William	
				<u>س</u>		3
Ma	ethod of Construct	Hon		D At		3 0
☐ Cable Tool 🔀 Rotary (ai	ir)	Diamond	Digging	Lot		3 4
Rotary (conventional) Air percus	· · · · · · · · · · · · · · · · · · ·	Jetting Driving -	U Other			7 8
	Water Use	5		91	14	9 9
✓ Domestic Industrial Stock Commerce	cial 🔲	Public Supply Not used –	Other	<u> </u>	MINGTON RD	
☐ Irrigation ☐ Municipal	Final Status of We	Cooling & air conditioning	 	Audit No. Z	35788 Date W	/ell Completed MM DO
Water Supply Recharge well		Unfinished Abar	doned, (Other)		ner's information Date D	elivered YYYY MM DD
☐ Test Hole ☐ Abandoned, p	oor quality	Dewatering Replacement well		hacvade delivere		
Well Contractor	ractor/Technician I	Well Contractor's	s Licence No.	Data Source	Ministry Use O	
Business Address (street name, number	IER WELL	5 54	59	Date Received	avvvic , table on Date of	5459
13787 HWY #	+ 48 5700 ff	VIIE	. 17.	Pat NOV'2		1 1
Name of Well/Technician (last name, fire	St name)	Well Technician	s Licence No.	Remarks	Well R	ecord Number
Signature of Technician/Contractor		Date Submitted	10 07			
0506E (09/03)	Contractor's Co	opy Ministry's Cop		ner's Copy 🔲	Cette form	oule est disponible en français

(A) OI	ntario	Ministry of the Environ	ment W	03552	sticker and p	rint number below)	Regulati	on 903 Ontari	Well R	
Instructions	s for Completin	ng Form	A	035529					page	of
All SectionQuestionAll metroPlease p	ons must be corns regarding come measurement or in clearly in blue or in the clearly in blue or in the clearly in blue or in the clearly in blue or in the clearly in blue or in the clearly in the clear in the c	npleted in function pleting this is shall be refered in the contract of the contract in the co	only. This docum ull to avoid delays application can be reported to 1/10 nk only. ion of Well Info	s in processing be directed to t th of a metre.	ı. Further	instructions ar r Well Manage	nd explanations a ement Coordina	are available o	n the back of	f this form.
Well Owller	5 inioiniation	and Locat	ION OF AAGIL 1816	rmation	William		7514		201	1 1
York	1 111		, +11 ×			rch-Stou		Pt.11	9	
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GPS Reading	NAD Zor 8 3 17	640	941 4	87486 1	nit Make/N Mage1		e of Operation:	Undifferentiate Differentiated,	Z.N.	aged
	_ · · · · · · · · · · · · · · · · · · ·		erials (see inst	tructions)					-	
General Colour	Most common	material	Other Ma	iterials		Gener	al Description		Depth From	Metres To
Black Brown	Topsoil Sand		silt						0	1
Brown	Clay		silt & so	ome gravi	1	5,3,250,415		And the second of the second	24	24 33
Brown	Sand		gravel &			der at 7	2 F t		33	<u> </u>
Brown	Grave1		sand		we				72	86
Brown	Sand								86	115
		-			-					
										
	Diameter		Cons	truction Record	d			Test of Wel	l Yield	
	To Diameter	Inside diam	Material	Wall thickness	Depth	- HOTES //	Pumping test m	nethod Draw Time Wa		ecovery Water Level
	20 10"	continues		continuences TNCHES	From	To /	Pump Pump intake se	min N	min	- Wette
20 1	15 6 ¹¹	INCHES	<i>4.</i>	Casing			Pump intake se (matus) 100 Pumping rate -	- Level →	4.3 8.3 1	· ·
		1 . 17	Steel Fibreglass Plastic Concrete	100	. 6 1		(litres/min)12;	3 bm		54.5
Water Water Water found at	Record / Kind of Water	01	Galvanized	.188	+21/2	111	Duration of pum		7.7 2	54.4
atMetres /		1 1-	Steel Fibreglass Plastic Concrete				Final water leve	el end 2 5	8.8 3	54.4
Gás / Other:	Salty Minerals		Galvanized				of pumping 0 2 7 7 Recommended	metros pump 4 5	8.8 4	54.5
] <u> </u>	Fresn 🔛 Sulpnur		Steel Fibreglass Plastic Concrete				type. Shallow Recommended depth.			54.3
Gas :: Other:	Salty Minerals	J =	Galvanized						8.8 5	1
	Fresh Sulphur Salty Minerals	Outside (Screen		·	Recommended rate. (litree/min		8.7 10 8.7 15	54.3 54.3
Other:		diam 🔀	Steel Fibreglass Plastic Concrete	Slot No.			If flowing give ra	ate - 20 5	8.7 20	54.3
Clear and se	yield, water was diment free	6	Galvanized	8	111	115	(litres/min If pumping discouded, give reason	ntin- 30 3	8.7 25 8.7 30	54.3 54.3
Other, specif	y	ļ	No C	asing or Scree	n		ued, give reason	40 -7	8.7 40	54.3
Chlorinated 🙀	Yes 🗌 No		Open hole			<u> </u>]	60	8.7 50 60	54.3 54.3
Depth set at - Me	Plugging and Se				ndonment	t t t		tion of Well		1.0.
From To	0 Iviaterial and typ	-	ry, neat cement slury;) etc. (cubic m		Indicate north by	w show distances o y arrow.	i well from road,	iot line, and bu	nang.
	0 Holepi	1, Ez−r e g	And			\ \lambda I				
	-							CRT.		
						'	Calas	CRT. NOW	1 Cty	Rd.
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Cable Tool	Rotary (air)	Diamond	_	igging		'.			
Rotary (conve	· = ·	ussion	☐ Jetting ☐ Driving	<u> </u>	ther		Bloomings	on Rd.		
Domestic	∏Industria	Water		h. 🗆 🗆	41					
Stock	Comme	rcial	☐ Public Supp	<u> </u>	ther					
Irrigation	Municip	al Final Status	Cooling & ai	r.conditioning		Audit No. Z	<u>45694</u>	Date Well Co	2006	05 19
Water Supply Observation w		ell insufficient supp	Unfinished	Abandone	ed, (Other)		wner's information	Date Delivere	b	MM DD
Test Hole	Abandoned,	poor quality	Replacemen					ry Use Only		<u> </u>
Name of Well Co					ence No.	Data Source	17111131	Contractor	60	
	& SONS WE		rtrug Prog	. 4002		Date Received	TYXYY MM D	Date of Insper		MM DD
	Fenelon		. ON	ell Technician's Lice	ence No	JUN 2	7 2006	Well Record	1	
Turnbul	1 James		* *	T-3089	·	·		TTON INCOME	TAITING	
X Ola	nician/Contractor				MM≥ DD					
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(A) O	ntari	io ¦	Ministry d the Envir	,	Tag Number of A Q35		'number below)	Well Record Regulation 903 Ontario Water Resources Ac				
Instruction	ıs for Co	mpletin	ıg Form	AC	35530				page	of		
For useAll SectQuestionAll met	e in the Pre tions mus ons regard t re meas u	ovince of the conting com- irement	of Ontari npleted in upleting the s shall b	ı full to avoid dela	ays in process in be directed t	ing. Further to the Water	instructions an	Please retain for future refe d explanations are available ment Coordinator at 416-2 Ministry Use Only	on the back of 35-6203.	f this form.		
Well Owne	r's Infori	mation	and Loc	ation of Well I	nformation	MUN	C	ON	LOT			
York						Whiteh		uffville Pt.11				
RR#/Street N	umber/Nan	ne		4		City/Town/V		Site/Compartment	9 t/Block/Tract el	tc.		
GPS Reading		ro Co		ina N	lorthing	Unit Make/N	fodel Mode	Lot 5 e of Operation: Undifferentia				
	8 3		64	T	874806	Mage1	lan	Differentiate				
General Colou		common			Materials		Genera	al Description	Depth	Net Es		
Black	Tops	soil							From 0	To /		
Brown	Clay	7	\$1.475\	silt &	gravěl		- Market Control	N. M. T.	1	17		
Gray	Clay	7		some gr	avel				17	35		
Brown	Sand			clay &	gravel			· · · · · · · · · · · · · · · · · · ·	35	40		
Brown Brown	Sand			gravel					40 52	52 65		
Brown	Sand		1	sand some gr	aval				65	115		
				JUNE 82			· · · · · · · · · · · · · · · · · · ·		 0.3	115		
	Diameter	iameter		Co	enstruction Rec	1		Test of W		200010001		
From	-4	ICHE	Inside diam	Material	Wall thickness	Depth	-Metree	Pump Time V	Vater Level Time	Recovery Water Leve		
0	20	10"	continuetres		Casing	From	To '	Pump intake set at Static	46 min	Motros		
20	115	6"	LNCHE	Steel Fibregia				Pumping rate - 1	48.1 1	45.2		
Wate	er Record		61	Plastic Concret	te .188	+21/2	111	(littran/min) I 2 g p.m. Duration of pumping 2	48.1 2	46.2		
Water found at Metres	/ Kind of	Water		Steel Fibregia	ass			1_hrs + min	10 1	\top		
1/1 to//5	Fresh Salty	Sulphur Minerals		Plastic Concret	te			Final water level end 3 of pumping functions	48.1 3	45.2		
Other:	JTESTE	\ <u>\alpha\</u>		Galvanized Steel Fibregla	ass			Recommended pump 4	48.1 4	46.2		
Gas C		Sulphur Minerals	•	Plastic Concret	te			Shallow Deep Recommended pump 5	48.1 5	46.2		
Other:	Fresh	Sulphur		Galvanized	Screen			Recommended pump 10	48.1 10	46.2		
Gas C	=	Minerals	Outside diam	Steel Fibregia	ass Slot No.			(litrog/min) 15	48.1 15	46.2		
After test of we	-		6	Plastic COncrei	te 20	111	115	(litres/min) 25	48.0 20 48.0 25	46.2 46.2		
Clear and s		•	<u> </u>		o Casing or Sci		113	If pumping discontinued, give reason.	48.1 30 48.1 40	46.2		
Chlorinated 🔀		No		Open hole				50	48.1 50	46.2		
7			L			<u> </u>		60	48.1 60	46,2		
Depth set at - N	Actree: Mater		aling Rec	slurry, neat cement slu	my) etc Volui	ne Placed ic metres)		Location of Well w show distances of well from road		uilding.		
From 20	10 //		1 & E		(COD	ic medes)	Indicate north by	y arrow.				
4	O Ho	1ep1	ug				N.		dy	À		
							1			j		
								Carpo CRT	131	ļ		
	ķ 1			Construction	<u> </u>			Carry	18			
Cable Tool Rotary (conv	/entional)	Rotary (a	ussion	☐ Diamond ☐ Jetting ☐ Driving er Use	· · · · · · · · · · · · · · · · · · ·	Digging Other		ø				
Domestic		Industria	il .	Public S		Other		Bloomingto	7			
Stock Irrigation	_	Commer Municipa		☐ Not used ☐ Cooling a	d		Audit No.	Dete Well	Completed	-MM		
Water Suppl	ly Ma	charge we		itus of Well	ed DAhand	loned, (Other)	Z	45695 Vener's information Date Deliver	2006 ered yyyy	10 ¹⁵ 2 ¹³		
Observation	well 🗌 Ab	andoned,	insufficient s	supply 🔲 Dewater	ing	Cilea, (Ciller)	package delivere	THOI SHIRE COLL	1111	טט איייי		
Test Hole	И		poor quality t ractor/Te	Replaced Chnician Informa				Ministry Use Only				
Name of Well C	ontractor & Son	as We	11 Dr	illing Lt	Well Contractor's d. 2662		Data Source	Contractor	6 2			
Business Addre Box 850	ss (street na	mé; numb	er, city etc.)				Date Received JUN 2 7	2006 Date of Ins		MM DD		
Name of Well T	echnician (la	st name, fi	rst name)		Well Technician's	Licence No.	Remarks	Well Recor	d Number	1		
Signature of Te	chnician/Con				Date Submitted YYY							
0506E (09/03)	do re	Se de Care	Cor	ntractor's Copy	Ministry's Copy	U Well Ow	L ner's Copy □	Cette formule	est disponible	en françai		

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	rical io	the Environment	A 03553	P -		Regulation 903 Ontari		
	s for Complet	1. –	A 035535					of
For useAll Section	in the Provinc e ions must be co	of Ontario only. The ompleted in full to avo	is document is a permar old delays in processing.	ent l ega Further i	l-document, Pi nstructions and	lease retain for future refere d explanations are available o	ence. n the back of	this form.
 Question 	ns regarding co	rippleting this applicat	tion can be directed to the toto to the toto 1/10th of a metre.	e Water	Well Manager	nent Coordinator at 416-23	5-6203.	
		lue or black ink only.	Tto 1/10 of a metre.			Ministry Use Only		
Well Owner	r's Informatio	and Location of \	Well Information	MUN	CC	ON ON	LOT	
RR#/Street Nu	ımber/Name	, A - A - A		/Town/Vil		Site/Compartment/I	Slock/Tract et	
Ca	airo Cour					Lot 4		
GPS Reading	8 3 1	ohe Easting 6409 27	487481 4 N	t Make/Mo agell	odel Mode .an	of Operation: Undifferentiated		aged
		edrock Materials (· · · · · · · · · · · · · · · · · · ·					
General Colour		 	Other Materials		Genera	I Description	Depth From	To Thetres
Black	Topsoil			ļ			0	1
Brown	Silt	Van da	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				1	4
Brown	Silt	clay	•	SOM	e #black		11	11 21
Brown Brown	Silt Clay	grav	<u>vel</u> cy & some grav	1		· ·		
Brown	Sand	gray		CT.	W.,		21 46	46 109
Brown	Sand	1 1 -	e gravel			,	109	116
					· · · · · · · · · · · · · · · · · · ·			
- Control of the Cont								
1 -000	Diameter		Construction Record			Test of We		
ੂੰ Depth ਾਂ ⊈ From	To Germente	Inside Mate	wall thickness	Depth	Motors A	T have	Down Reter Level Time	ecovery Water Level
0	20 10"	cantimetres	SONTINGUEST TNCHES	From	То	Fund min 1	Metres min	***
A 100 TO	116 6"	INCHES	Casing		-		8.4	77.
20	210	Steel ☐				Pumping rate - 1 (iites/min) 12gpm	52.2 1	47.5
Wate	r Record	Plastic Galvanize		+2+	112	1	52.6 ₂	48.4
Water found at Mores	Kind of Water	Steel _]Fibreglass		·	Final water level end 3	52.5 ₃	48.4
//2//6/4	Fresh Sulphur Salty Mineral		·		:	of pumping to moves		
Other: U	NTESTED	Steel	Fibreglass			Recommended pump 4 !	52.5 4	48.4
Gas C	Fresh Sulphur	Plastic	·			Recommended pump 5	5	
Other:		Galyanize		<u> </u>		depth.100 metres	40	
	Fresh _ Sulphur Salty _ Mineral		Screen Fibreglass Slot No.			Recommended pump 10 rate. (Hespiral) 15	10	
Other:	ll yield, water was	-III diam i 7 -	Concrete Slot No.			If flowing give rate - 20 (litres/min) 25	20 25	
Clear and se		6 Galvanize	ed 12	112	116	If pumping discontinued, give reason.	30	
Other, spec	ify		No Casing or Screet			40	40	V
Chlorinated 🏋	Yes No	Open hot	e			50	52.5 60	48.4
	Plugging and \$	Bealing Record	Annular space Aban	donment		Location of Well		
Depth set at - M	Material and	ype (bentonite slurry, neat co	ement slurry) etc. Volume F		In diagram below Indicate north by	v show distances of well from road,	lot line, and bu	ilding.
20	6' Bense	al & Ezmud			. 1		ı	
6	0 Holep	lug		<u> </u>	N			
				ļ	1	care ent.	Cly.	Rd
-				-		caire cati	130	7
		Method of Construct	ion	-	,			/
Cable Tool	Rotar	y (air)	Diamond Diamond	igging			-	
Rotary (conv		_ =	Jetting 🔲 O Driving ———	ther		Ø		
		Water Use			BLO	poministon Rd.		
Domestic Stock	☐ Indus	· —	Public Supply	ther				
Irrigation	Munic	ipal Tinal Status of We	Cooling & air conditioning		Audit No. 7	45693 Date Well C	ompleted 2006	05 25
Water Suppl	y Recharge		Unfinished Abandone	d, (Other)	Was the well ow	vner's information Date Deliver		MM DD
Observation Test Hole	well Abandone	d, insufficient supply	Dewatering Replacement well		package delivere	d? Yes No		
	Well Co	ntractor/Technician I	nformation		Dot- C- :	Ministry Use Only		
Name of Well C	ontractor & Sons V	ell Drillin	g Lt d. 2662	ence No.	Data Source	Contractor	662	
Business Addre	ss (street name, nur	nber, city etc.)			Date Received	YYYY MM DD Date of Inspe		MM DD
Name of Well Te	echnician (last name	R Falls, ON first name)	Well Technician's Lice	nce No.	NOV () Remarks	7 2006 Well Record	Number	
Turnbu	11. James chnician/Contractor		T-3089 Date Submitted				•	
x Clark	crinician/Contractor			/IM DD			1 p	
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Metric.

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Well Record

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Regulation 903	Ontario	И	Va	ite.	r	R	25	O	110	e.	5 /	4

Well Loc	((1060)(1066))			220,275,00 (65)							10.00	
	The second of the	ocation (Street Nu		.:		Township Witchur	5-ShuF	Rille Lot		Concession		
County/Dis	strict/M		SPCSACKARANIA I VERNINGA I VERNINGA I VICTORIA	**************************************		City/Town/Village			Provir Ont			I Code 介コメリ
UTM Coord	dinates	Zone Easting		orthing		Municipal Plan and Su	blot Number	**************************************	Other			11127
. *************************************	8 3 en and					ord (see instructions on	the back of this	form)				
General C	olour		non Material		Ot	her Materials		General Description	1		Dep From	oth (<i>m/ft)</i> To
Brown		Clay			1	PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	Hand			77	0	39
Brown		Jand			vavel		Loar				3 <u>a</u>	
			Andrew Control of the							, , , , , , , , , , , , , , , , , , ,	74 116 117 12 12 12 13 14 14 14 14 14 14 14 14 14 14 14 14 14	
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			Annular	and the state of t				Results of W				### (### ### ### ### ### ### ### #### ######
Depth So From	et at (m		Type of Sea (Material an			Volume Placed (m³/ft³)	Clear	of well yield, water was: and sand free	Time	aw Down Water Level	Time	
O	a	o WyoB	<u>en</u>				☐ Other	, specify discontinued, give reason:	(min) Static	(m/h) 35	(min)	(m/ft)
	1								Level 1		1	
							Pump inta	ike set at (m/fi)	2	,	2	\$6\$\\666666666666666666666666666666666
Meti	hod o	f Construction			Well U		Pumping	HO rate (I/min / GPM)	3		3	
Cable To	ool	Dîamond	: =		☐ Comme	ercial Not used	Duration o	of pumping	4		cţ.	
Rotary (6		e) Driving	Live	mestic estock	☐ Municip	ole Monitorin	hr.	s+ mín	5		5	
☐ Boring ☐ Air percu		Digging	Irrig	ustrial	☐ Cooling	g & Air Conditioning	Final Wate	r level end of pumping (m/īt) HO			10	
Other, sp	pecity	Construction R		er, specify _		Status of Well	If flowing (give rate (l/min / GPM)	15		15	
Inside Diameter		n Hole OR Material vanized, Fibreglass,	Wall Thickness	Depth	n (<i>m/īl</i>)	☐ Water Supply ☐ Replacement Wel		ended pump depth (m/h)	25	2771 A 2011 A 11 A 11 A 11 A 11 A 11 A 11 A	20 25	
(cm/in)		orete, Plastic, Steel)	(cm/in)	From	To	Test Hole Recharge Well	Recomme	HO ended pump rate	30		30	
) † c	عدا	_219_	0	4a	Dewatering Well	(Vmin / GP	<u> </u>	40	2000 A A A A A A A A A A A A A A A A A A	40	
		//////////////////////////////////////				☐ Observation and/o ☐ Monitoring Hole ☐ Alteration	Well prodi	uction (I/min / GPM)	50		50	MI 1111 1111111111111111111111111111111
			·/////////////////////////////////////		·	(Construction)	Disinfected Yes		60		60	
		Construction R	ecord - Scre	en		Insufficient Supply Abandoned, Poor		Map of W				
Outside Diameter (cm/in)	(Plasti	Material ic, Galvanized, Steel)	Słot No.	Depth From	n (<i>m/fit)</i> To	Water Quality Abandoned, other		ovide a map below following	instruct	ions on the b	ack.	
51/2	(}	eel	25	42_	45	specify	and a	et. · · · lan		. C.		
		<u></u>			1	Other, specify		Blooming ton			**************************************	Andrew Andrew Andrew Management
Mater four	od at D	Water Det	*************	````\\\usessa		lole Diameter				E	j	
45 (11)	n/ft) [epth Kind of Water Gas Other, <i>spe</i>	cify		From	To (cm/in)	<u> </u>	Lincolnville L	<u>ane</u>	<u> </u>	•	
		epth Kind of Water Gas Other, <i>spe</i>		Untested			_	ख्र		B)	
Water foun	nd at D	epth Kind of Wate	r: Fresh	Untested						10		
(m	n/ft)	Gas Other, spe		Technicia	n Informa	ition		1-1-1		describition of different		
•		Well Contractor				ell Contractor's Licence N	D.					
		Street Number/Na			М	unicipality	Comments	5:		1		<u></u>
Box 30 Province	13,	Suffen West	Business	E-mail Add	Iress							
ON		LOEIR (inc. area code) Na	1 .			as).com	Well owne information		ed	Minist	ry Us	Only
905	ле № . 7 1 2 1.	(inc. area code) Na 2 5 3 , 2 cence No. Signature	Boadwa	y Gyan	asi ivame,	riist Name)	package delivered	Y Y Y Y M M M Date Work Completed	0 0	San and san an		130
Well Technic	ian's Lic	cence No. Signature	Technicia	n and/or Co	ntractor Da	te Submitted	Yes No		il o	SE Received		0 (1113
0506E (12/200	<u>/ </u>				1	Mininter's Co.	<i>t.</i> '			t	Printer fr	er Cintaria 2007

Nell Technician's Licenses

0506E (2007/12) © Queen's Printer for Ontario 2007

Wall Tan No. (Place Sticker and/or Print Below)

095335

095335

Well Record

Regulation 903 Ontario Water Resources Act

of Page

Well Local	tion Vell Location (Street Num	ber/Name)	24 P. D. S.	Township	Lot	C	Concession		
3199 4	or K-Durham L			City/Town/Village Stouffuille		Provinc		Postal	Code
UTM Coordin	1 7 / 11.1./	69US	1714131819	Municipal Plan and Sub	ot Number	Other			
	n and Bedrock Materia							Dept	h (<i>m/ft</i>)
General Co		on Material	C	Other Materials	General Description			From	To U
Brown					moist moist			11-	16-
Brown			San		wet			16	22-
Brown	1 .		244		wet		100	22-	28-
Grey	clay								
		Annular Sp	pace		Results of W	ell Yield	d Testing	A SEE	
Depth Se	et at (m/ft)	Type of Sealar (Material and	nt Used	Volume Placed (m²/ft²)	After test of well yield, water was: Clear and sand free		aw Down Water Leve		Water Level
28	24- Sano		71-7		Other, specify	(min) Static	(m/ft)	(min)	(m/ft)
15	1- Bento	rile			If pumping discontinued, give reason:	Level			
1-	O- Sand F	Tushmont	Concrete		Pump intake set at (m/ft)	1		1	
					- I dilip iliano da al (iliy	2		2	
Metl	nod of Construction		Well	Use	Pumping rate (I/min / GPM)	3	Contraction of the Contraction o	3	-
Cable To	col Diamond	Public Dome			Duration of pumping	4		4	
Rotary (I	Reverse) Driving	Livest	tock Test		hre + min	5		5	
☐ Boring ☐ Air percu		☐ Indus	trial	mig a 74 Conditioning		10		10	
Other, s	Construction Re	Other		Status of Well	If flowing give rate (I/min / GPM)	15		15	
Inside Diameter	Open Hole OR Material (Galvanized, Fibreglass,	Wall Thickness	Depth (m/ft)	☐ Water Supply	Recommended pump depth (m/ft)	20		20	
(cm/in)	Concrete, Plastic, Steel)	(cm/in)	From To	Replacement Well	Recommended pump rate	25		25	
2=	Plastic	Sch 40	0	Recharge Well Dewatering Well	(I/min / GPM)	30		30	
				Observation and/or Monitoring Hole	Well production (Vmin / GPM)	40		40	
				Alteration (Construction)	Disinfected?	50		50	
				Abandoned, Insufficient Supply	Yes No	60		60	
Outside	Construction R	ecord - Screen	Depth (m/ft)	Abandoned, Poor Water Quality	Map of V Please provide a map below followin			back.	
Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	From To	Abandoned, other specify					
2	Plastic	10	28 4		Sep.				
				Other, specify	See				
	Water De			Hole Diameter					
	nd at Depth Kind of Wate		Fro	Depth (m/ft) Diamete m To (cm/in)					
Water fou	nd at Depth Kind of Wate	r: Fresh	Untested 28	6 0 8					
Water fou	n/ft) Gas Other, spe nd at Depth Kind of Wate	r: Fresh	Untested						
(1	m/ft) Gas Other, spe		echnician Infor	mation					
0 0 1	Name of Well Contractor	and treil I		Well Contractor's Licence N	0.				
	e Drilling Address (Street Number/Na			7 2 1 5	Comments:				
149/	Vorfinch DR	Units 1		North York					
Province	Postal Code MI3MII		E-mail Address	Arilling, com	Well owner's Date Package Delive	red		stry Us	e Only
Bus.Teleph	one No (inc ame code) No	ame of Well Te	chnician (Last Na	me First Name)	information package delivered Y Y Y Y M M		Audit No.	10	069
Well Techni	6506444 cian's Licence No. Signature	e of Tecknician	addor Contracto	Date Submitted	Yes Date Work Complete	ed	44470	19	2010

20100128

MAR 1 9 2010

Yes No

20100218 Ministry's Copy

First Name

3 4 9

0506E (12/2007)

Well Record

Ministry of Well Tag No. (Place Sticker and/or Print Below) the Environment Regulation 903 Ontario Water Resources Act A 088308 Page ☐ Metric Imperial Measurements recorded in: Well Owner's Information E-mail Address ☐ Well Constructed Last Name / Organization by Well Owner naemo Municipality Mailing Address (Street Number/Name) Telephone No. (inc. area code) Postal Code Well Location Concession Address of Well Location (Street Number/Name) Township Postal Code Province City/Town/Village County/District/Municipalit Ontario Other Municipal Plan and Sublot Numb Easting Northing NAD 8 3 17 641 6024874462 Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on the back of this form) Depth (m/ft) Most Common Material General Description Other Materials From Bentonite Slurry 85 Hole Plus 88 Silica sand Results of Well Yield Testing Annular Space Recovery After test of well yield, water was: Volume Placed (m³/ft³) Type of Sealant Used Depth Set at (m/ft) Water Level Time Water Level Clear and sand free (Material and Type) (min) (m/ft) (min) (m/ft) Other, specify Static If pumping discontinued, give reason: Level 1 1 Pump intake set at (m/ft) 2 2 3 3 Pumping rate (Vmin / GPM) Method of Construction Well Use 4 4 ☐ Not used ☐ Diamond ☐ Public Commercial Cable Tool Duration of pumping Jetting Domestic Municipal Dewatering Rotary (Conventional) 5 5 hrs + min Monitoring Rotary (Reverse) Driving Livestock Test Hole Final water level end of pumping (m/ft) Cooling & Air Conditioning ☐ Digging ☐ Irrigation 10 Boring 10 ☐ Industrial Air percussion 15 15 Other, specify Other, spec If flowing give rate (Vmin-/ GPM) Construction Record - Casing Status of Well 20 20 Depth (m/ft) ☐ Water Supply Recommended pump depth (m/ft) Inside Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel) Wall Thickness Diameter (cm/in) 25 25 Replacement Well (cm/in) Test Hole Recommended pump rate (Vmin / GPM) 30 30 Recharge Well Dewatering Well 40 40 Observation and/or Monitoring Hole Well production (I/min / GPM) 50 50 Alteration Disinfected? (Construction) 60 60 Yes No Abandoned, Insufficient Supply Map of Well Location Construction Record - Screen Abandoned, Poor Please provide a map below following instructions on the back. Water Quality Depth (m/ft) Outside Material Slot No. Abandoned, other (Plastic, Galvanized, Steel) specify Blooming ton Other, specify Hole Diameter Water Details Depth (m/ft) Water found at Depth Kind of Water: Fresh Untested From (cm/in) (m/ft) Gas Other, specify Water found at Depth Kind of Water: Fresh Untested Scale (m/ft) Gas Other, specify Water found at Depth Kind of Water: Fresh Untested (m/ft) Gas Other, specify Well Contractor and Well Technician Information Well Contractor's Licence No. Business Name of Well Contractor Business Address (Street Number/Name) 5 4 5 9 Municipality Comments: 13787 Huy 48 Stouper. 16 Postal Code Business E-mail Address Ministry Use Only Well owner's information OL Date Package Delivered 64A7X3 Bus.Telephone No. (inc. area code) Name of Well Technician (Last Name, First Name) package delivered 9056404369 Ferguson En.2
Well Technician's Licence No. Signature of Technician and/or Contractor Date Submitted Date Work Completed Yes JUN 0 8 2010

No

20100510

20100511

A113019 Well Tag ow) Well Record Ministry of Regulation 903 Ontario Water Resources Act the Environment All3019 Page [Imperial Metric Measurements recorded in: Address of Well Location (Street Number/Name) Whit-stouff 10 10 Linconville County/District/Municipality City/Town/Village Stanffville Municipal Plan and Sublot Number Postal Code Province Ontario 4441744 YOFK UTM Coordinates Zone NAD 8 3 17 6411/69/48/7/40 Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on the back of this form) Depth (m/ft) Most Common Material Other Materials General Description General Colour 5and/6 0 hangl Brown Comenter Results of Well Yield Testing Annular Space After test of well vield, water was: Draw Down Volume Placed Recovery Type of Sealant Used Depth Set at (m/fl) Clear and sand free Time (Material and Type) Time Water Level Water Level (m^3/ft^3) (m/fl) (min) (m/ft) Other, specify 4 Bans Statio 32.2 If pumping discontinued, give reason: 52 616 Level 1 Pump intake set at (m/ft) 3 Pumping rate (I/min / GPM) Well Use Method of Construction 10 Commercial Not used Cable Tool □ Diamond ☐ Pµblic Duration of pumping ☑ 0amestic Municipal Dewatering Rotary (Conventional) ☐ Jetting hrs + Ob min 5 5 Test Hole Driving Livestock Monitoring Rotary (Reverse) Final water level end of pumping (m/fl) Boring Digging Irrigation Cooling & Air Conditioning 3 4.2 FT If flowing give rate (I/min / GPM) Air percussion Industrial 15 15 Other specify Other, specify Construction Record - Casing Status of Well 20 20 Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel) Depth (m/ft) Water Supply Recommended pump depth (m/ft) Inside Wall Diameter (cm/in) Thickness (cm/in) 38 FT
Recommended pump rate Replacement Well 25 To From Test Hole 30 20 Recharge Well 0 (l/min / GPM) .138 Dewatering Well 40 Observation and/or Well production (//min / GPM) Monitoring Hole 50 Alteration (Construction) 60 Yes ☐ No Abandoned, Insufficient Supply Map of Well Location Construction Record - Screen Abandoned, Poor provide a map below following instructions on the back. Water Quality Depth (m/fl) Outside Slot No Diamete (Plastic, Galvanized, Steel) Abandoned, other From Τσ (cm/in) specify 36 57ain(65) ,010 Š Other, specify Hole Diameter Water Details \Diamond Depth (m/fi) Diameter Water found at Depth Kind of Water: 🛂 (cm/in) 36 (m/fl) \square Gas \square Other, specify Water found at Depth Kind of Water: Fresh Untested (m/ft) Gas Other, specify Lincoin Ville Water found at Depth Kind of Water: Fresh Untested (m/ft) Gas Other, specify Well Contractor and Well Technician Information Business Name of Well Contractor le Baranics (Street Number/Name) Well Drilling

Well owner's information

package delivered

Yes

No

Date Package Delivered

2012069

1206

Date Work Completed

Ministry Use Only

z128286

MAUG 0 2 2012

Audit No.

Signature of Technician and/or

Business E-mail Address

area code) Name of Well Technician (Last Name, First Mame)

73 42 Boran SE DALE

No. Signature of Technician and/or Contractor Date Submitted

Vivian Postal Code



Source: Compiled from Google Earth. Aerial photo dated May 7, 2005.

Scale:

Refer to Scale Bar Coordinate System: NAD 1983 UTM Zone 17





Grainboys Holdings Inc. 3469 Con Rd 1, Township of Uxbridge Geotechnical Investigation

Well Survey Locations

11197394-02 October, 2019

Appendix B.5

APPENDIX B.6: WATER WELL INFORMATION SURVEY

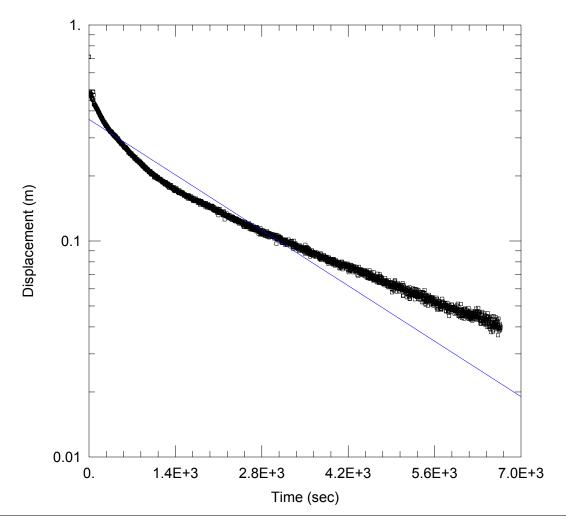
PROJECT: 11197394-02

LOCATION: 3469 Concession Road 1, Uxbridge, ON

DATE: October 15, 2019

Address	Well ID	_	Northing (m)	Well Type	Top of Well (m)	Water Level (m)	Depth (m)	Quality	Quantity	Comments
3469 York Durham Line	L-1	641844	4874834	Dug	0.6	5.25	7.9	No Issues	No Issues	Water quality tested when property was sold. Record 1906217
3210 York Durham Line	L-2	641391	4874548	Dug				No Issues	No Issues	Record 6908478
3199 York Durham Line	L-3	641683	4874508	Dug		-	8.2	No Issues	No Issues	Commercial use well
3197 York Durham Line	L-4	641523	4874387	Abandoned						Former domestic well, removed in 90's
3229 York Durham Line	L-5	641400	4874618					No Issues	No Issues	Resident not home. No casing observed
3003 York Durham Line	L-6	641483	4874186	Drilled		1	25	No Issues	No Issues	Record 4602710
3889 York Durham Line	L-7	640948	4875781	-	-	1		No Issues	No Issues	Resident identifed a drilled well. Unable to access
14001 10th Line	L-8	640979	4875329	Drilled		-		No Issues	No Issues	No information provided by resident
13672 10th Line	L-9	641006	4874407	Dug	-	ı	7.9	No Issues	No Issues	Installed in the 60's
13383 10th Line	L-10	641452	4873797	Dug		-	8.2	No Issues	No Issues	No information provided by resident
13357 10th Line	L-11	641272	4873765	Drilled						Resident not home. Drilled well casing observed.

Appendix C Hydraulic Conductivity Data



BH-103 FALLING HEAD TEST

Data Set: I:\...\BH-3 Falling Head Test.aqt

Date: 10/02/19 Time: 11:48:50

PROJECT INFORMATION

Company: GHD

Client: Grainboys Holdings Inc.

Project: 11197394-02

Location: 3469 Conc. Road 1, Uxbridge ON

Test Well: BH-103

Test Date: September 11, 2019

AQUIFER DATA

Saturated Thickness: 3.62 m Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (BH-3)

Initial Displacement: 0.7126 m

Total Well Penetration Depth: 3.62 m

Casing Radius: 0.025 m

Static Water Column Height: 3.62 m

Screen Length: 1.5 m Well Radius: 0.025 m

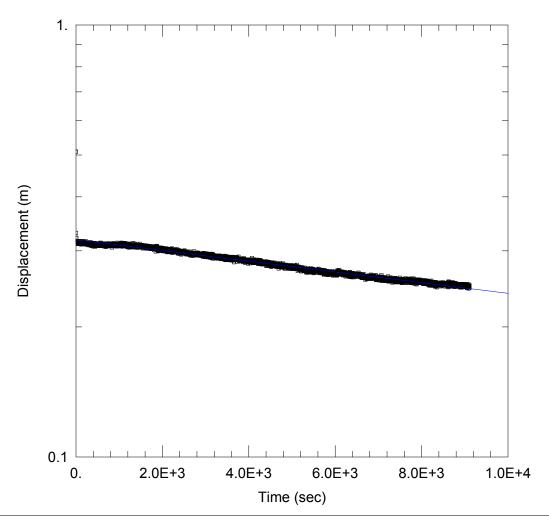
SOLUTION

Aquifer Model: Unconfined

K = 3.247E-5 cm/sec

Solution Method: Bouwer-Rice

y0 = 0.3654 m



BH-103 RISING HEAD TEST

Data Set: I:\...\BH-3 Rising Head Test.aqt

Date: 10/02/19 Time: 11:50:24

PROJECT INFORMATION

Company: GHD

Client: Grainboys Holdings Inc.

Project: 11197394-02

Location: 3469 Conc. Road 1, Uxbridge ON

Test Well: BH-103

Test Date: September 11, 2019

AQUIFER DATA

Saturated Thickness: 3.62 m Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (BH-3)

Initial Displacement: 0.5091 m

Total Well Penetration Depth: 3.62 m

Casing Radius: 0.025 m

Static Water Column Height: 3.62 m

Screen Length: 1.5 m Well Radius: 0.025 m

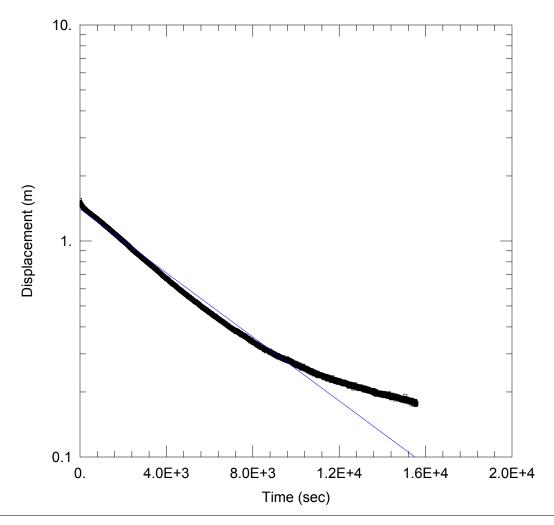
SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

K = 2.192E-6 cm/sec

y0 = 0.3181 m



BH-107 FALLING HEAD TEST

Data Set: I:\...\BH-7 Falling Head Test.aqt

Date: 10/02/19 Time: 11:51:03

PROJECT INFORMATION

Company: GHD

Client: Grainboys Holdings Inc.

Project: 11197394-02

Location: 3469 Conc. Road 1, Uxbridge ON

Test Well: BH-107

Test Date: September 11, 2019

AQUIFER DATA

Saturated Thickness: 0.67 m Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (BH-7)

Initial Displacement: 1.542 m

Total Well Penetration Depth: 3. m

Casing Radius: 0.025 m

Static Water Column Height: 0.67 m

Screen Length: 3. m Well Radius: 0.025 m

SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

K = 2.656E-5 cm/sec

y0 = 1.407 m

Appendix C: Infiltration Testing (in-situ)

Project No. 11197394-02 **Date: September 11, 2019**

Equipment: ETC Pask Permeameter

 Location:
 BH-103
 BH-105
 BH-107

 Depth of hole:
 0.6 m
 0.6 m
 0.6 m

	Test 1		Test 1	Test 1			
Elapsed Time	Permeameter Level	Elapsed Time	Permeameter Level	Elapsed Time	Permeameter Level		
(minutes)	(cm)	(minutes)	(cm)	(minutes)	(cm)		
0.167	42.2	0.167	41.4	0.167	41.5		
1	42.2	0.33	40.6	0.5	41		
2	41.8	0.5	40.4	1	40.5		
3	41.5	0.66	40.0		39.6		
4	41.1	0.83	39.7	3	38.8		
5	40.7	1	39.4	4	38		
6	40.4	2	37.9	5	37.2		
7	40.0	3	36.6	6	36.3		
8	39.6		35.4		35.5		
9	39.3		34.3	8	34.7		
10	38.9		33.2	9	34		
12	38.2	7	32.1	10	33.1		
14	37.6		31.1	12	31.6		
16	36.9	9	30.1	14	30		
18	36.3	10	29.2				
20	35.7	11	28.3				
22	35.1	12	27.2	20	25		
24	34.4	13	26.3				
26	33.8		25.4				
		15	24.5	26	19.8		
		16	23.6	28	18.1		
		17	22.8	30	16.5		
		18	21.9				
		19	21				
		20	20.1				
		21	19.3				
		22	18.4				

 Quasi Steady Flow Rate ® (cm/min)
 0.3
 0.9
 0.9

 Field-saturated Hydraulic
 Conductivity (Ksf) (m/sec)
 1.60E-06
 4.80E-06
 4.80E-06
 4.80E-06

Appendix D Analytical Data



CERTIFICATE OF ANALYSIS

Final Report

C.O.C.: G93290 REPORT No. B19-29037

Report To: Caduceon Environmental Laboratories

Client I.D.

110 West Beaver Creek Rd Unit 14

Richmond Hill ON L4B 1J9

Tel: 289-475-5442 Fax: 289-562-1963

JOB/PROJECT NO.: Uxbridge/11197394-02

BH-7

Dug Well

P.O. NUMBER: WATERWORKS NO.

BH-3

Waterloo Ontario N2L 3X2 Canada **<u>Attention:</u>** Eric Wierdsma

GHD Limited

455 Phillip Street,

DATE RECEIVED: 12-Sep-19
DATE REPORTED: 19-Sep-19

SAMPLE MATRIX: Groundwater

			Onent i.b.		5110	J,	Dag Won	
			Sample I.D.		B19-29037-1	B19-29037-2	B19-29037-3	
			Date Collect	ed	11-Sep-19	11-Sep-19	11-Sep-19	
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed				
pH @25°C	pH Units		SM 4500H	13-Sep-19/O	8.07	8.06	7.70	
Conductivity @25°C	µmho/cm	1	SM 2510B	13-Sep-19/O	542	607	807	
Alkalinity(CaCO3) to pH4.5	mg/L	5	SM 2320B	13-Sep-19/O	239	244	363	
Hardness (as CaCO3)	mg/L	1	SM 3120	17-Sep-19/O	315	349	450	
Chloride	mg/L	0.5	SM4110C	13-Sep-19/O	15.9	17.6	42.5	
Fluoride	mg/L	0.1	SM4110C	13-Sep-19/O	< 0.1	< 0.1	0.5	
Nitrite (N)	mg/L	0.1	SM4110C	13-Sep-19/O	< 0.1	< 0.1	< 0.1	
Nitrate (N)	mg/L	0.1	SM4110C	13-Sep-19/O	< 0.1	3.9	0.1	
Sulphate	mg/L	1	SM4110C	13-Sep-19/O	42	66	21	
Colour	TCU	2	SM 2120C	18-Sep-19/O	< 2	< 2	< 2	
Turbidity	NTU	0.1	SM 2130	18-Sep-19/O	45.2	8.9	11.1	
Ammonia (N)-Total	mg/L	0.01	SM4500- NH3-H	13-Sep-19/K	0.19	0.02	< 0.01	
o-Phosphate (P)	mg/L	0.002	PE4500-S	13-Sep-19/K	0.013	< 0.002	0.005	
Potassium	mg/L	0.1	SM 3120	17-Sep-19/O	2.2	2.8	0.9	
Sodium	mg/L	0.2	SM 3120	17-Sep-19/O	7.8	5.8	9.4	
Calcium	mg/L	0.02	SM 3120	17-Sep-19/O	95.2	102	159	
Magnesium	mg/L	0.02	SM 3120	17-Sep-19/O	18.8	22.9	12.8	
Iron	mg/L	0.005	SM 3120	17-Sep-19/O	< 0.005	0.047	< 0.005	
Copper	mg/L	0.002	SM 3120	17-Sep-19/O	< 0.002	< 0.002	< 0.002	
Manganese	mg/L	0.001	SM 3120	17-Sep-19/O	0.076	0.125	0.170	
Zinc	mg/L	0.005	SM 3120	17-Sep-19/O	0.011	< 0.005	0.024	
Anion Sum	meq/L		Calc.	17-Sep-19/O	6.12	7.02	8.93	
Cation Sum	meq/L		Calc.	17-Sep-19/O	6.71	7.31	9.43	
% Difference	%		Calc.	17-Sep-19/O	4.62	2.02	2.72	

R.L. = Reporting Limit

Test methods may be modified from specified reference method unless indicated by an * Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill,B-Barrie

Christine Burke Lab Manager



GHD Limited

455 Phillip Street,

Waterloo Ontario N2L 3X2 Canada

Attention: Eric Wierdsma

CERTIFICATE OF ANALYSIS

Final Report

C.O.C.: G93290 **REPORT No. B19-29037**

Report To: Caduceon Environmental Laboratories

110 West Beaver Creek Rd Unit 14

Richmond Hill ON L4B 1J9

Tel: 289-475-5442

Fax: 289-562-1963

JOB/PROJECT NO.: Uxbridge/11197394-02 DATE RECEIVED: 12-Sep-19

DATE REPORTED: 19-Sep-19 P.O. NUMBER: SAMPLE MATRIX: Groundwater WATERWORKS NO.

			Client I.D.	_	BH-3	BH-7	Dug Well	
			Sample I.D.		B19-29037-1	B19-29037-2	B19-29037-3	
			Date Collect	ed	11-Sep-19	11-Sep-19	11-Sep-19	
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed				
Ion Ratio	AS/CS		Calc.	17-Sep-19/O	0.912	0.960	0.947	
Sodium Adsorption Ratio	-		Calc.	17-Sep-19/O	0.190	0.135	0.193	
TDS(ion sum calc.)	mg/L	1	Calc.	17-Sep-19/O	326	381	465	
Conductivity (calc.)	µmho/cm		Calc.	17-Sep-19/O	603	677	845	
TDS(calc.)/EC(actual)	-		Calc.	17-Sep-19/O	0.602	0.627	0.576	
EC(calc.)/EC(actual)	-		Calc.	17-Sep-19/O	1.11	1.11	1.05	
Langelier Index(25°C)	S.I.		Calc.	17-Sep-19/O	0.984	1.00	0.999	

R.L. = Reporting Limit

Test methods may be modified from specified reference method unless indicated by an * Site Analyzed=K-Kingston, W-Windsor, O-Ottawa, R-Richmond Hill, B-Barrie

Christine Burke Lab Manager

Appendix E Water Balance Calculations

Appendix E.1

Water Budget(Thornthwaite Method) - Average Values*

Weather Station: King Smoke Tree

Climate Stati	on: 6154142		Elevation:	352 masl	Distance Awa	ay:	~ 21.8 km		
Month	Mean	Heat	Potential	Daylight	Adjusted	Total	Surplus	Deficit	
	Temperature	Index	ET	Correction	ET	Precipitation			
	(°C)		(mm)	Factor	(mm)	(mm)	(mm)	(mm)	
January	-7.4	0	0	0.82	0	51.7	51.70		
February	-6.1	0	0	0.82	0	46	46.00		
March	-1.5	0	0	1.03	0	51.2	51.20		
April	6	1.32	27.29	1.1	30.02	64.9	34.88		
May	12.5	4.00	59.98	1.25	74.97	87.1	12.13		
June	17.7	6.78	87.11	1.27	110.63	84.8	0.00	25.83	
July	20.5	8.47	101.97	1.29	131.55	86.4	0.00	45.15	
August	19.6	7.91	97.18	1.15	111.75	88.4	0.00	23.35	
September	15.3	5.44	74.50	1.04	77.48	84.2	6.72		
October	8.6	2.27	40.15	0.94	37.74	72.9	35.16		
November	2.2	0.29	9.30	8.0	7.44	84.6	77.16		
December	-3.7	0	0	0.78	0	55.5	55.50		
TOTAL	7.0	36.5	497.5		581.6	857.7	370.4	94.3	
	TOTAL WATER SURPLUS: 276.1 mm								

Notes:

King Smoke Tree weather station utilized: 43° 52' N, 78° 50' W

*Average values of precipitation were used. Average values of temperature were also used.

Water budget adjusted for latitude and daylight

Total Water Surplus is calculated as total precipitation minus adjusted potential evapotranspiration

Total Moisture Surplus is calculated as total precipitation minus actual evapotranspiration Formulas utilized:

 $I = (T_i/5)^{1.514}$

E=0 when T_i<0 °C

 $E=16(10T_{i}/I_{tot})^{a}$ when $0<T_{i}<26.5$ °C

 $E=-415.85+32.24T_{i}-0.43T_{i}^{2}$ when $T_{i}>26.5$ °C

 $a=6.7x10^{-7}I^{3}-7.71x10^{-5}I^{2}+1.79x10^{-2}I+0.49$

a = 1.072892197

Appendix E.2Water Budget Pre-Development

Catchment Designation	T	T			
· ·	Rooftops	Open Area	Treed Area	Driveway - Gravel	Total
Area (m²)	250	343895	16000	2900	363045
Pervious Area (m²)	0	343895	16000	2900	362795
% Pervious	0%	95%	4%	0.8%	99.9%
Impervious Area (m²)	250	0	0	0	250
% Impervious	0.1%	0%	0%	0%	0.1%
	INFILTR	ATION FACTO			
Topography Infiltration Factor	0	0.15	0.2	0.25	
Soil Infiltration Factor	0	0.25	0.25	0.25	
Land Cover Infiltration Factor	0	0.1	0.2	0	
MECP Infiltration Factor	0	0.5	0.65	0.5	
Actual Infiltration Factor	0	0.5	0.65	0.5	
Runoff Coefficient	1	0.5	0.35	0.5	
Runoff from Impervious Surfaces*	0.8	0	0	0.8	
		PER UNIT AR			
Precipitation (mm/yr)	858	858	858	858	858
Run On (mm/yr)	0	0	0	0	0
Other Inputs (mm/yr)	0	0	0	0	0
Total Inputs (mm/yr)	858	858	858	858	858
		(PER UNIT A			1
Precipitation Surplus (mm/yr)	686	276	276	686	280
Net Surplus (mm/yr)	686	276	276	686	280
Evaportranspiration (mm/yr)	172	582	582	172	578
Infiltration (mm/yr) Rooftop Infiltration (mm/yr)	0 172	138 0	179 0	343 0	141 0.1
Total Infiltration (mm/yr)	172	138	179	343	142
Runoff Pervious Areas	0	138	97	343	138
Runoff Impervious Areas	515	0	0	0	0.4
Total Runoff (mm/yr)	515	138	97	343	138
Total Outputs (mm/yr)	858	858	858	858	858
Difference (Inputs - Outputs)	0	0	0	0	0
2e.e.(pa.te	INPUT	S (VOLUMES	_		
Precipitation (m³/yr)	214	294959	13723	2487	311384
Run On (m³/yr)	0	0	0	0	0
Other Inputs (m³/yr)	0	0	0	0	0
Total Inputs (m³/yr)	-				
rotal inputs (iii /yr)	214 OUTDU	294959	13723	2487	311384
D : '((' O) (3()		TS (VOLUME	_	4000	101505
Precipitation Surplus (m³/yr)	172	94956	4418	1990	101535
Net Surplus (m³/yr)	172	94956	4418	1990	101535
Evaportranspiration (m³/yr)	43	200003	9305	497	209848
Infiltration (m³/yr)	0	47478	2872	995	51345
Rooftop Infiltration (m³/yr)	43	0	0	0	43
Total Infiltration (m³/yr)	43	47478	2872	995	51387
Runoff Pervious Areas (m ³ /yr)	0	47478	1546	995	50019
Runoff Impervious Areas (m³/yr)	129	0	0	0	129
Total Runoff (m³/yr)	129	47478	1546	995	50148
Total Outputs (m³/yr)	214	294959	13723	2487	311384
Difference (Inputs - Outputs)	0	0	0	0	0

Appendix E.3 Water Budget Post-Development - No Mitigation Strategies

Catchment Designation	SITE									
_	New Building Rooftop	New Concrete Pads	New Asphalt Areas	Existing Rooftops	Remaining Open Areas	Remaining Treed Areas	Remaining Gravel Driveway	Total		
Area (m²)	4700	1370	6070	250	331755	16000	2900	363045		
Pervious Area (m²)	0	0	0	0	331755	16000	2900	350655		
% Pervious	0%	0%	0%	0%	91.4%	4%	1%	96.6%		
Impervious Area (m²)	4700	1370	6070	250	0	0	0	12390		
% Impervious	1.3%	0.4%	1.7%	0.1%	0%	0.0%	0.0%	3.4%		
·		INF	ILTRATION FAC	CTORS	•	•				
Topography Infiltration Factor	0	0	0	0	0.15	0.2	0.25			
Soil Infiltration Factor	0	0	0	0	0.25	0.25	0.25			
Land Cover Infiltration Factor	0	0	0	0	0.1	0.2	0			
MECP Infiltration Factor	0	0	0	0	0.5	0.65	0.5			
Actual Infiltration Factor	0	0	0	0	0.5	0.65	0.5			
Runoff Coefficient	1	1	1	1	0.5	0.35	0.5			
Runoff from Impervious Surfaces*	8.0	0.8	0.8	0.8	8.0	0.8	0.6			
			JTS (PER UNIT							
Precipitation (mm/yr)	858	858	858	858	858	858	858	858		
Run On (mm/yr)	0	0	0	0	0	0	0	0		
Other Inputs (mm/yr)	0	0	0	0	0	0	0	0		
Total Inputs (mm/yr)	858	858	858	858	858	858	858	858		
			PUTS (PER UNI							
Precipitation Surplus (mm/yr)	686	686	686	686	276	276	515	292		
Net Surplus (mm/yr)	686	686	686	686	276	276	515	292		
Evaportranspiration (mm/yr)	172	172	172	172	582	582	343	566		
Infiltration (mm/yr)	0	0	0	0	138	179	257	136		
Rooftop Infiltration (mm/yr)	0	0	0	172 172	0	0 179	0	0		
Total Infiltration (mm/yr) Runoff Pervious Areas	0	0	0	0	138 138	97	257 257	136 132		
Runoff Impervious Areas	686	686	686	515	0	0	0	23		
Total Runoff (mm/yr)	686	686	686	515	138	97	257	156		
Total Outputs (mm/yr)	858	858	858	858	858	858	858	858		
Difference (Inputs - Outputs)	0	0	0	000	0	0	0	000		
Difference (inputs Cutputs)	Ü	_	NPUTS (VOLUM		Ü	Ü	Ū	-		
Precipitation (m³/yr)	4031	1175	5206	214	284546	13723	2487	311384		
Run On (m³/yr)	0	0	0	0			0	0		
Other Inputs (m³/yr)	0	0	0	0	0	0	0	0		
			-			·				
Total Inputs (m ³ /yr)	4031	1175 O I	5206 JTPUTS (VOLU	214 MES)	284546	13723	2487	311384		
Precipitation Surplus (m³/yr)	3225	940	4165	172	91604	4418	1492	106016		
Net Surplus (m³/yr)	3225	940	4165	172	91604	4418	1492			
	*	235		43		1		106016 205368		
Evaportranspiration (m³/yr) Infiltration (m³/yr)	806		1041	0	192942	9305	995			
\ , ,	0	0	0		45802	2872	746	49420		
Rooftop Infiltration (m³/yr)	0	0	0	43	0	0	0	43		
Total Infiltration (m³/yr)	0	0	0	43	45802	2872	746	49463		
Runoff Pervious Areas (m³/yr)	0	0	0	0	45802	1546	746	48094		
Runoff Impervious Areas (m³/yr)	3225	940	4165	129	0	0	0	8458		
Total Runoff (m ³ /yr)	3225	940	4165	129	45802	1546	746	56553		
Total Outputs (m³/yr)	4031	1175	5206	214	284546	13723	2487	311383		
Difference (Inputs - Outputs)	0	0	0	0	0	0	0	0		

Areas based upon site statistics provided by Lassing Dibben Consulting Engineers Ltd. by email on October 15, 2019

Notes:

*Evaporation from impervious areas and gravel areas was assumed to be 20% and 40% of precipitation, respectively $25\%\ \text{of}$ available precipitation from existing rooftops is assumed to infiltrate.

Appendix E.4Water Budget Post-Development - With Mitigation Strategies

Catchment Designation	SITE									
	New Building Rooftop	New Concrete Pads	New Asphalt Areas	Existing Rooftops	Remaining Open Areas	Remaining Treed Areas	Remaining Gravel Driveway	Total		
Area (m²)	4700	1370	6070	250	331755	16000	2900	363045		
Pervious Area (m²)	0	0	0	0	331755	16000	2900	350655		
% Pervious	0%	0.0%	0%	0%	91.4%	4%	1%	96.6%		
Impervious Area (m²)	4700	1370	6070	250	0	0	0	12390		
% Impervious	1.3%	0%	1.7%	0.1%	0%	0.0%	0.0%	3.4%		
'	4	INF	ILTRATION FAC					-		
Topography Infiltration Factor	0	0	0	0	0.15	0.2	0.25			
Soil Infiltration Factor	0	0	0	0	0.25	0.25	0.25			
Land Cover Infiltration Factor	0	0	0	0	0.1	0.2	0			
MECP Infiltration Factor	0	0	0	0	0.5	0.65	0.5			
Actual Infiltration Factor	0	0	0	0	0.5	0.65	0.5			
Runoff Coefficient	1	1	1	1	0.5	0.35	0.5			
Runoff from Impervious Surfaces*	0.8	0.8	0.8	0.8	0.8	0.8	0.6			
r tanion meni imperinduo danudoo	0.0		UTS (PER UNIT		0.0	0.0	0.0			
Precipitation (mm/yr)	858	858	858	858	858	858	858	858		
Run On (mm/yr)	0	0	0	0	0	0	0	0		
Other Inputs (mm/yr)	0	0	0	0	0	0	0	0		
Total Inputs (mm/yr)	858	858	858	858	858	858	858	858		
, , ,		OUTF	PUTS (PER UNI	T AREA)						
Precipitation Surplus (mm/yr)	686	686	686	686	276	276	515	292		
Net Surplus (mm/vr)	686	686	686	686	276	276	515	292		
Evaportranspiration (mm/yr)	172	172	172	172	582	582	343	566		
Infiltration (mm/yr)	0	0	0	0	138	179	257	136		
% Rooftop runoff reg'd to balance	59.7%									
Rooftop Infiltration (mm/yr)	410	0	0	172	0	0	0	5		
Total Infiltration (mm/yr)	410	0	0	172	138	179	257	142		
Runoff Pervious Areas	0	0	0	0	138	97	257	132		
Runoff Impervious Areas	277	686	686	515	0	0	0	18		
Total Runoff (mm/yr)	277	686	686	515	138	97	257	150		
Total Outputs (mm/yr)	858	858	858	858	858	858	858	858		
Difference (Inputs - Outputs)	0	0	0	0	0	0	0	0		
	-	II	NPUTS (VOLUM	IES)			-			
Precipitation (m³/yr)	4031	1175	5206	214	284546	13723	2487	311384		
Run On (m³/yr)	0	0	0	0	0	0	0	0		
Other Inputs (m³/yr)	0	0	0	0	0	0	0	0		
Total Inputs (m³/yr)	4031	1175	5206	214	284546	13723	2487	311384		
· · · · · · · · · · · · · · · · · · ·		OI	JTPUTS (VOLU	MES)						
Precipitation Surplus (m³/yr)	3225	940	4165	172	91604	4418	1492	106016		
Net Surplus (m³/yr)	3225	940	4165	172	91604	4418	1492	106016		
Evaportranspiration (m ³ /yr)	806	235	1041	43	192942	9305	995	205368		
	1									
Infiltration (m³/yr)	0	0	0	0	45802	2872	746	49420		
Rooftop Infiltration (m ³ /yr)	1925	0	0	43	0	0	0	1968		
Total Infiltration (m ³ /yr)	1925	0	0	43	45802	2872	746	51387		
Runoff Pervious Areas (m³/yr)	0	0	0	0	45802	1546	746	48094		
Runoff Impervious Areas (m³/yr)	1300	940	4165	129	0	0	0	6534		
Total Runoff (m³/yr)	1300	940	4165	129	45802	1546	746	54628		
Total Outputs (m ³ /yr)	4031	1175	5206	214	284546	13723	2487	311383		
Difference (Inputs - Outputs)	0	0	0	0	0	0	0	0		

Notes:

Areas based upon site statistics provided by Lassing Dibben Consulting Engineers Ltd. by email on October 15, 2019

^{*}Evaporation from impervious areas and gravel areas was assumed to be 20% and 40% of precipitation, respectively 25% of available precipitation from rooftops is assumed to infiltrate.

Appendix E.5Water Budget Summary

	SITE								
PARAMETER	Pre- Development	Post-Development No Mitigation	Difference Pre- vs. Post-	Post-Development Rooftop Mitigation					
		INPUTS (VOLUMES	5)						
Precipitation (m ³ /yr)	311384	311384	0%	311384	0%				
Run On (m³/yr)	0	0	0%	0	0%				
Other Inputs (m ³ /yr)	0	0	0%	0	0%				
Total Inputs (m³/yr)	311384	311384	0%	311384	0%				
		OUTPUTS (VOLUME	S)						
Precipitation Surplus (m³/yr)	101535	106016	4%	106016	4%				
Net Surplus (m³/yr)	101535	106016	4%	106016	4%				
Evapotranspiration (m³/yr)	209848	205368	-2%	205368	-2%				
Infiltration (m ³ /yr)	51345	49420	-4%	49420	-4%				
Rooftop Infiltration (m ³ /yr)	43	43	0%	1968	4488%				
Total Infiltration (m ³ /yr)	51387	49463	-4%	51387	0%				
Runoff Pervious Areas (m³/yr)	50019	48094	-4%	48094	-4%				
Runoff Impervious Areas (m ³ /yr)	129	8458	6474%	6534	4978%				
Total Runoff (m³/yr)	50148	56553	13%	54628	9%				
Total Outputs (m³/yr)	311384	311383	0%	311383	0%				

To maintain pre-development infiltration values;

59.7%

of post-development rooftop runoff needs to be infiltrated.



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