

ONTARIO MINISTRY OF TRANSPORTATION

GROUNDWATER ASSESSMENT REPORT

PRELIMINARY DESIGN AND CLASS ENVIRONMENTAL
ASSESSMENT STUDY, HIGHWAY 403 AND HIGHWAY 6
INTERCHANGE IMPROVEMENTS, CITY OF HAMILTON,
CITY OF BURLINGTON (REGIONAL MUNICIPALITY OF
HALTON), ONTARIO (W.O. 16-20004)

SEPTEMBER 01, 2020

CONFIDENTIAL





GROUNDWATER
ASSESSMENT REPORT
PRELIMINARY DESIGN AND
CLASS ENVIRONMENTAL
ASSESSMENT FOR HIGHWAY
403 AND HIGHWAY 6
INTERCHANGE
IMPROVEMENTS, CITY OF
HAMILTON AND CITY OF
BURLINGTON (REGIONAL
MUNICIPALITY OF HALTON),
ONTARIO (W.O. 16-20004)

ONTARIO MINISTRY OF
TRANSPORTATION

DRAFT

PROJECT NO.: 19M-01981-00
DATE: SEPTEMBER 01, 2020

WSP
610 CHARTWELL ROAD
SUITE 300
OAKVILLE, ON, CANADA L6J 4A5

T: +1 905-823-8500
F: +1 905-823-8503
WSP.COM



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Ontario Ministry of Transportation
Planning & Design – Peel & Halton
159 Sir William Heart Avenue, 4th Floor
Downsview, ON
M3M 0B7

Attention: Ehab Armanious, MTO Project Manager

Dear Sir:

Client ref.: WO #16-20004

Please find enclosed WSP's submission of a draft Groundwater Assessment Report for the Preliminary Design and Class Environmental Assessment Study for the improvements of the Highway 403 and Highway 6 interchange in the City of Hamilton and City of Burlington (Regional Municipality of Halton).

Yours sincerely,

DRAFT

Natalia Codoban, M.Eng., P.Eng.
Senior Hydrogeologist / Project Manager

NC/nc

cc: Alexander Pereira

WSP ref.: 19M-01981-00

610 Chartwell Road
Suite 300
Oakville, ON, Canada L6J 4A5

T: +1 905-823-8500
F: +1 905-823-8503
wsp.com

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FIRST ISSUE

August 10, 2020	Original submission			
Prepared by	Reviewed by	Approved By		
Haley Spennato	Natalia Codoban	Natalia Codoban		
REVISION 1				
DATE	Revised based on internal review			
Prepared by	Reviewed by	Approved By		
September 1	Alex Pereira	Alex Pereira		
REVISION 2				
DATE	Finalized report			
Prepared by	Reviewed by	Approved By		

SIGNATURES

PREPARED BY

DRAFT

September 1, 2020

Haley Spennato, M.Sc.
Environmental Scientist

Date

APPROVED BY

DRAFT

September 1, 2020

Natalia Codoban, M.Eng., P.Eng.
Senior Hydrogeologist / Project Manager

Date

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EXECUTIVE SUMMARY

WSP Canada Group Limited (WSP) and AECOM Canada Ltd. were retained by the Ontario Ministry of Transportation (MTO) to undertake a Preliminary Design (PD) and Class Environmental Assessment (EA) for the Highway 403 and Highway 6 Interchange Improvements in the City of Hamilton and City of Burlington (Regional Municipality of Halton), Ontario.

As part of the Preliminary Design and Class EA Study, WSP conducted a Groundwater Assessment. For the purposes of this study, a 500-m evaluation zone was added around the project limits (the “Study Area”), to focus the investigation on areas with high potential groundwater sensitivity to the project.

The results of the groundwater study showed that the Study Area is located within both Hamilton and Halton Conservation Areas. The Study Area is present in the Sixteen Mile Creek – Credit River sub-watershed of the Great Lakes – St. Lawrence River drainage basin.

The Study Area lies with three physiographic regions: the Norfolk Sand Plain, the Niagara Escarpment, and the Iroquois Plains. The Norfolk Sand Plains are present in the north portion of the Study Area and are characterized by sands and silts. The Niagara Escarpment and Iroquois Plains are present throughout the majority of the Study Area and are defined by vertical dolostone cliffs and varying depths of sands or soils overlying bedrock, respectively.

The bedrock geology within the Study Area is predominantly shale of the Queenston Formation, with sandstone, shale, dolostone, siltstone of the Amabel and Clinton-Cataract Formations in the north-west.

The search of the Ministry of the Environment, Conservation and Parks (MECP) Water Well Information System identified 125 water well records present within the Study Area. According to the records, 77 wells were installed for domestic water use purposes, 7 wells are listed for monitoring purposes/as test holes, 27 are listed as observation wells, 14 wells are listed for unknown use.

The records suggest that no active Permits to Take Water are present in the Study Area.

Based on the results of the Study Area inspection and desktop study, it appears that localized groundwater areas of concern may exist in the Study Area. This includes presence of permeable deposits of sand and gravel, shallow groundwater, Areas of Natural and Scientific Interest and Provincially Significant Wetlands in the Study Area. Residents in the north-western portion of the Study Area (east of Highway 6) and north-eastern portion of the Study Area (west of Highway 403) may rely on private water wells for water supply.

Both the Halton and Hamilton Region Source Protection Areas source the majority of their water from two municipal water takings in Lake Ontario. The portion of Lake Ontario that is located within the southern most part of the Study Area is classified as an Intake Protection Zone, Category 3.

Based on results of the groundwater assessment study, the following recommendations are provided:

Groundwater and Surface Water Mitigation Measures

The following mitigation measures are recommended to be implemented to protect groundwater and surface water resources within the Study Area during construction stage of the project.

- This project will be required to be assessed during Detail Design when detailed construction information becomes available, to address the potential impacts of any construction dewatering on groundwater and/or surface water resources. An EASR/PTTW may be required to be obtained for the interchange improvements due to presence of permeable soils, shallow groundwater, presence of Provincially Significant Wetlands and unserviced areas in the Study Area.
- If it is determined during Detail Design that an EASR/PTTW is required for water control, wetlands and areas with shallow water levels should be evaluated in detail in a report supporting an EASR/PTTW application. All groundwater studies for an EASR/PTTW shall be conducted in accordance with the MECP guidelines.
- During construction, the quality of surface water and groundwater in the Study Area needs to be protected from loading of suspended solids into watercourses, potential fuel leaks or falling construction debris caused from construction activities.

Mitigation Measures for Water Wells

- Private wells were observed to be present in the north-western and north-eastern portions of the Study Area. The rest of the Study Area is interpreted to be municipally serviced.
- Due to lack of the well details, it is recommended to complete water well surveys in unserviced areas where replacement of structures is proposed during Detail Design, to evaluate the sensitivity of these locations to construction activities once detailed design information is available.
- WSP recommends applying spill mitigation measures during construction activities to minimize the potential for accidental releases and transport of contaminants to municipal wells in the Study Area.

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1 INTRODUCTION

1.1 BACKGROUND

WSP Canada Group Limited (WSP) and AECOM Canada Ltd. were retained by the Ontario Ministry of Transportation (MTO) to undertake a Preliminary Design (PD) and Class Environmental Assessment (EA) Study in support of the proposed Highway 403 and Highway 6 interchange improvements in the City of Hamilton and City of Burlington (Regional Municipality of Halton). The project limits extend from Grindstone Creek westerly to Old Guelph Road on Highway 403, and from Highway 6 and Highway 403 interchange to the Bruce Trail on Highway 6. The study encompasses fourteen bridges, three structural culverts, and fifteen retaining walls along Highway 403 and Highway 6. Structural and operational improvements will be developed and evaluated for the selection of a preferred alternative(s) for both short-term and long-term improvements to accommodate future traffic needs of Highway 403 within the Study limits.

As part of the Preliminary Design and Class EA Study, WSP conducted a Groundwater Assessment. For the purposes of this study, a 500-m evaluation zone was added around the project limits (the “Study Area”), to focus the investigation on areas with high potential groundwater sensitivity to the project. This assessment was completed in accordance with Section 3.3 of the MTO document entitled “*Environmental Reference for Highway Design*” (MTO, June 2013). The project limits and the Study Area is shown in **Figure 1**.

1.2 STUDY OBJECTIVE

The objective of the groundwater assessment report (GAR) was to broadly characterize the local hydrogeological conditions within the Study Area and provide technical hydrogeological input to the project’s Preliminary Design, by completing a desktop review and an inspection of the Study Area.

This study discusses potential impacts resulting from the Highway 403 and Highway 6 interchange improvements in the context of the following:

- Potential impacts to private and municipal water wells;
- Existing source water protection areas;
- Likelihood of release of contaminants; and
- Impacts to groundwater and surface water from construction activities.

The Scope of Work undertaken in this GAR includes the following tasks:

- a) Review of Records



- Review of Physiographic, Geological and Hydrogeological Maps and Records to identify the general physiography, geology, and hydrogeology within and surrounding the Study Area, to understand the general groundwater flow system(s); and
- Review of Water Well Records: to provide any relevant information on the construction of wells, their location, depth to bedrock, static water levels, and geological materials observed.
- Review of Permit to Take Water (PTTW) Information – to identify existing and expired PTTWs in the Study Area, to understand the current and historical impacts on the aquifer.

b) Study Area Inspection

- Visual Inspection: to attempt to observe local groundwater characteristics (e.g., springs and seeps), areas of municipal servicing and presence of private water wells, and flow in culverts and streams, where possible.

c) Reporting

- Compilation, Evaluation and Discussion of Findings: compilation, evaluation and discussion of all information collected from the Records' Review and Study Area Inspection; and
- Preparation of a Factual and Concise Report, which is written documentation of the results into a GAR.

2 DESCRIPTION OF STUDY AREA

2.1 LOCATION

The Study Area is centered on the intersection of Highway 403 and Highway 6 in the City of Hamilton and City of Burlington (Regional Municipality of Halton). The project limits include an area extending approximately 2,600 m north-west, 2,900 m north-east, 350 m south-east, and 1,300 m south-west of the intersection. The Study Area is located within both Hamilton and Halton Conservation Areas (Conservation Ontario, 2020).

The Study Area is present in the Sixteen Mile Creek – Credit River sub-watershed of the Great Lakes – St. Lawrence River drainage basin (Ministry of Natural Resources and Forestry, 2020a).

2.2 CURRENT LAND USE

Current land uses in the Study Area are a mix of recreational, commercial, residential, and industrial. Lands in the Study Area and in the area immediately adjacent to the Study Area are shown on **Figures 1 and 2**.

The north-west quadrant is primarily rural residential and light industrial land use. The north-east quadrant is a mix of residential and recreational land use, while the south of the Study Area is predominantly recreational land use, consisting of the Royal Botanical Gardens.

2.3 TOPOGRAPHY AND DRAINAGE

The topography of the Study Area is determined by its geologic foundations and associated landforms. The “Atlas of Canada” was accessed by WSP to review topographic features in the general vicinity. Surface topography of the Study Area ranges considerably. The north and west portions of the Study Area are at a topographic high, reaching elevations of 210 metres above sea level (masl). Elevations decrease to 110 – 140 masl in the central Study Area and reach a topographic low in the south portions of the Study Area, at approximate elevations of 100 masl (Natural Resources Canada, n.d.).

A prominent topographic feature that runs through the Study Area is the Niagara Escarpment (see **Section 2.5**). Multiple bedrock valleys cut through the Escarpment, one of which extends along the present-day course of Grindstone Creek (Singer et. al., 2003).

The watercourses present in the north portion of the Study Area are tributaries of Grindstone Creek (see **Figure 2**). The watercourses in the south portion of the Study Area flow into Hamilton Harbour and Burlington Bay in the south, the western tip of Lake Ontario. Water flow in all watercourses is towards the south (Natural Resources Canada, n.d.). While the tributaries of Grindstone Creek are classified as



cold, cool and warm creeks (see **Figure 2**), Grindstone Creek itself is a cold-water creek, with thermal regime changing to warm as it approaches Hamilton Harbour.

Four Areas of Natural and Scientific Interest (ANSIs) are present within the Study Area: Hendrie-Valley (in the east), Grindstone Creek Valley (northeast of Highway 403), Cootes Paradise (in the south), and Clappison Escarpment Woods (in the north). A fifth ANSI Sassafras-Waterdown Woods, is present approximately 400 m north-east of the Study Area (**Figure 2**). One Provincially Significant Wetland (PSW) is present within Hendrie Valley along Grindstone Creek in the eastern most portion of the Study Area: the Hendrie Valley – Lambs Hollow Wetland Complex (**Figure 2**). The Hendrie Valley – Lambs Hollow Wetland Complex is also listed as an ANSI (WSP, April 2018).

2.4 SOURCE WATER PROTECTION AREAS

Source Protection Areas (SPAs) were established under the Clean Water Act (2006) by Ontario Regulation (O. Reg.) 284/07. The Clean Water Act focusses on protecting municipal residential and designated private drinking water sources from water quantity and water quality threats. Source Protection Plans (SPP) are policies developed by Source Protection Committees (SPC) within a watershed to establish local policy on the protection of water quality and quantity (Halton-Hamilton Source Protection Committee, 2017).

The Study Area falls within both the Halton Region Source Protection Area (SPA) and the Hamilton Region SPA (Halton-Hamilton Source Protection Committee, 2017).

The Clean Water Act (2006) requires Source Protection Plans to consider policies that relate to the Great Lakes. The Halton Region SPA comprises lands within the municipalities of Halton Region: City of Burlington, Town of Milton, Town of Oakville, Halton Hills, City of Hamilton, County of Wellington, Township of Puslinch, and Peel Region / City of Mississauga. Approximately 94% of the population receive their drinking water from two municipal water sources: 88% from Lake Ontario and 6% from municipal wells obtaining groundwater from aquifers. The remaining 6% receive water from private systems such as wells and cisterns. The Hamilton Region SPA stretches from the Township of Puslinch in the northwest to the Town of Grimsby in the east and is located primarily within the City of Hamilton. Approximately 97% of the population receive their drinking water from two municipal water takings: almost 97% from Lake Ontario and less than 1% from municipal wells. The remaining 3% rely on private systems (Halton-Hamilton Source Protection Committee, 2017).

A Wellhead Protection Area is an area that is related to a well and within which it is desirable to regulate or monitor drinking water threats; there are no Wellhead Protection Areas within the Study Area. An Intake Protection Zone (IPZ) is an area of land and water that contributes source water to a drinking water system intake within a specified distance, period of flow time, and/or watershed area and within which it is desirable to regulate or monitor drinking water threats. An IPZ-1 is the area closest to the intake pipe

and is a set distance which extends one kilometre upstream from the intake. An IPZ-2 includes the on and offshore areas where flowing water and any pollution would reach the intake pipe within two hours. An IPZ-3 is an area where contaminants could reach the intake pipe during and after a large storm. An IPZ-1 and -2 are present approximately 7 and 5 km north-east of the Study Area, respectively, around 2 water intakes off-shore in Burlington. An IPZ-1 and -2 are also present approximately 7 and 6 km south-east. The portion of Lake Ontario that is located within the southern most part of the Study Area is classified as an IPZ- 3 (Halton-Hamilton Source Protection Committee, 2017; MECP, 2020a).

2.5 PHYSIOGRAPHY AND SURFICIAL GEOLOGY

The Study Area falls within multiple physiographic regions. The northern portion of the Study Area falls within the Norfolk Sand Plain. The Niagara Escarpment and Iroquois Plain physiographic regions are present throughout the majority of the north-east and south of the Study Area (Chapman and Putnam, 2007).

The Norfolk Sand Plain is wedged shape and located along the shore of Lake Erie, tapering northward past Brantford, Ontario. The sands and silts in this region were deposited as a delta in glacial Lakes Whittlesey and Warren. Infiltration to these soils is rapid and there is an abundance of well water available (Chapman and Putnam, 2007).

The Niagara Escarpment extends from the Niagara River to the northern tip of the Bruce Peninsula and continues through the Manitoulin Islands. Vertical cliffs often expose the dolostone of the Lockport and Amabel Formations, with red shale below. Generally, the base of the Escarpment is around 107 masl while the top of the cliff reaches around 191 masl. Between Dundas Valley northward to Forks of the Credit, the brow of the escarpment reaches heights of approximately 442 masl, and the escarpment is cut with numerous creeks (Chapman and Putnam, 2007).

The Iroquois Plain is the lowland bordering Lake Ontario that was previously inundated by a body of water known as Lake Iroquois. The Iroquois Plain extends around the western part of Lake Ontario, from the Niagara River to the Trent River, spanning a distance of 306 km, its width varying from a few hundred metres to about 13 km. Conditions vary greatly across the Iroquois Plain. Within the Study Area, this lowland is cut by numerous small streams that cross towards Lake Ontario. In some areas across the Plains, stratified sands of varying depth are encountered, while in others, soil is formed directly on top of the Queenston red shale, or a shallow cover of till exists over the bedrock (Chapman and Putnam, 2007).

Surficial geology varies throughout the Study Area. Clay to silt-textured till (known as ‘Halton Till’) derived from glaciolacustrine deposits or shale are predominant throughout the north, west and central portions of the Study Area, with Paleozoic bedrock outcrops present throughout (see **Figure 3**). The south most portion of the Study Area consists of coarse-textured glaciolacustrine deposits of sand, gravel, with minor silt and clay inclusions (Ontario Geological Survey, 2010).

2.6 BEDROCK GEOLOGY

The bedrock geology within the Study Area is sandstone, shale, dolostone, siltstone of the Amabel and Clinton-Cataract Formations in the northern portion, and shale of the Queenston Formation throughout the majority of the Study Area (see **Figure 4**; Ontario Geological Survey, 2011).

3 HYDROGEOLOGY

3.1 OVERVIEW OF GROUNDWATER FLOW PRINCIPLES

This section provides a brief overview of some of the basic concepts of groundwater flow and should provide the reader with a general understanding of hydrogeological processes and terminology.

3.1.1 GROUNDWATER FLOW

Groundwater flow is controlled by permeability (i.e., referred to as hydraulic conductivity), which is a function of porosity (i.e., amount and size of pores or spaces) of the soil or rock material, interconnectivity, and by water pressure (i.e., hydraulic head). Groundwater generally moves quickly through permeable materials such as sand and gravel, and slowly through less permeable materials such as clays and silts. The permeability of bedrock can be quite variable.

The hydraulic conductivity of overburden deposits (e.g., sand and gravel) is a function of the physical properties of the porous media (e.g. particle size, angularity, effective porosity, and tortuosity). The hydraulic conductivity of bedrock is determined by the distribution, width and connectivity of joints, fractures and bedding planes.

3.1.2 AQUIFERS

Hydrogeologic units that produce / supply useful quantities of water are referred to as aquifers. Typical geological formations that act as good aquifers include: sandstones, dolostone and limestone bedrock, as well as coarse-grained overburden material (i.e., sands and gravels). Materials with low permeability, such as clay and silt, silt till, competent shale and igneous and metamorphic bedrock are not generally suitable as a source of groundwater, however, they can provide a measure of protection to underlying aquifers as they can limit the migration of contaminated groundwater.

3.1.3 CONFINED AND UNCONFINED AQUIFERS

Aquifers are either confined (i.e., under hydrostatic pressure/artesian conditions when the water level is above the top of the aquifer) or unconfined (i.e., not under hydrostatic pressure where the water level is within the aquifer). A confined aquifer is bordered or bonded by one or more low permeability units (or aquitards) and may not be able to readily transmit groundwater to other aquifer systems directly. An unconfined aquifer generally has its upper limit defined by the water table and is usually found close to the ground surface.

The bedrock aquifer system may be confined or unconfined depending on whether or not fractured bedrock is exposed at the surface. In general, bedrock that is covered by a significant layer of relatively low permeability material (i.e., clay) located above the bedrock surface is classified as being confined. Confined aquifers are considered to be more secure from a groundwater resource perspective, as they are less prone to contamination from surficial sources.

3.1.4 GROUNDWATER TABLE

The top of the permanently saturated groundwater zone is called the water table. The elevation and slope of the water table is generally a subtle reflection of surface topography, and groundwater flows from areas of higher elevation (recharge) to lower elevation (discharge).

3.1.5 GROUNDWATER RECHARGE AND DISCHARGE

Recharge and discharge are used to describe vertical movement of groundwater within an aquifer system. If the direction of flow is downward then the area is under recharge conditions; if the flow is upward then the area is under discharge conditions.

3.1.6 GROUNDWATER OBSTRUCTION AND INTERCEPTION

An obstruction to groundwater is something that causes a blockage or hindrance to groundwater flow, quality or quantity (i.e., physical object or related to construction activities such as fill placement and compaction). Interception is the act or instance of interfering with groundwater, such that the flow (or rate of flow) is altered or the groundwater table is raised or lowered. This is typically caused by excavations or cuts into the shallow aquifer system.

3.2 WATER WELL RECORDS

The MECP Water Well Information System (WWIS) is a compilation of water wells drilled in the Province of Ontario for the purpose of human, agricultural and industrial consumption. Pursuant to the Ontario Water Resources Act (OWRA), any well drilled for these purposes must be drilled by an MECP licensed well drilling contractor and documented on a WWR. The record is then filed with the MECP. Examples of data recorded on a water well record include: location of well, date drilled, depth to where water is found, static water level and subsurface stratigraphy (i.e., geological layers). Since well records have been completed by many different drillers during the past approximately 50 years, data accuracy and consistency is sometimes questionable. The information in the records cannot always be taken as accurate and must be interpreted in the context of the overall regional setting, and geological conditions.

A search of the MECP WWIS identified 155 records of water well records within the Study Area (**Figure 5**). The well records were obtained through an MECP database search (July 2020). Thirty (30) of the well



records are records of abandonment or alteration and have not been included in this summary. The remaining 125 well locations are summarized below:

Summary of MECP Water Well Records in Study Area

- 32 wells (26%) have a total depth of 10 m or less; 56 wells (45%) have a total depth ranging between 10 and 20 m, 17 wells (14%) are identified as having a total depth ranging between 20 and 30 m, 9 wells (6%) are identified as having a total depth greater than 30 m and 11 wells (9%) have no depth information;
- 72 wells (58%) are screened in bedrock, 8 wells (6%) are screened in overburden; 45 wells (36%) have no information provided;
- 77 of the above-mentioned wells are listed for domestic use (62%); 7 wells are listed for monitoring purposes/as test holes; 27 are listed as observation wells; 14 wells are listed for unknown use;
- Static water level information was available for 79 wells. Static water levels range between 1.2 to 24.8 mbgs in the Study Area;
- Information on “water found” depth was available for 92 wells. Groundwater depths for these wells range between 0 and 35.4 mbgs;
- 69 wells (55%) are identified as having fresh water; 0 wells are listed as having sulphur water, 5 wells do not state water type, 40 wells do not provide any water type information, 4 wells are listed as having salty water, 7 wells are listed as not tested.

A detailed table presenting the above information as well as description of well locations is presented in Table 1 (**Appendix A**; MECP July 2020b).

3.3 PERMITS TO TAKE WATER

Under Section 34 of the Ontario Water Resources Act (OWRA), the MECP requires ground and/or surface water users who are taking higher volumes of water (>50,000 L/day) to obtain a Permit to Take Water (PTTW) or Environmental Activity and Sector Registry (EASR). There are no active PTTWs within the Study Area (MECP, 2020c).

3.4 HYDROGEOLOGICAL SETTING

This section provides the results of the hydrogeological evaluation completed by WSP for the Study Area, based on the information collected from the MECP Water Well Records, observed conditions during the site reconnaissance and a desktop review of secondary sources. Discussion of vulnerability of aquifers within the Study Area is presented in Section 3.4.5.

3.4.1 OVERBURDEN AQUIFER SYSTEM

As discussed in Section 2.5, the Study Area is underlain by silt-textured till in the north, west and central portions of the Study Area and coarse-textured deposits of sand, gravel, minor silt and clay in the south (see **Figure 3**).

The two main streams within the Halton Region Conservation Authority are the Sixteen Mile and Bronte Creeks. The main tributaries descend the escarpment through narrow bedrock cuts. Both creeks drain towards Lake Ontario. According to Singer et. al. (2003), the overburden ranges between 10.0 and 30.0 m. A total of 1,707 overburden wells have been identified within the Authority, compared to 6,941 bedrock wells. This indicates that the overburden is not the significant source of water supply, especially in the area location above the Escarpment.

The main streams within the Hamilton Region Conservation Authority are the Spencer, Red Hill, and Stoney Creeks, in addition to several other smaller streams and the lower part of the Grindstone Creek. Stoney Creek drains directly into Lake Ontario while the others drain into Hamilton Harbour.

Overburden thickness ranges from 0.0 to more than 180.0 m in the Dundas Valley, however, across the majority of the Authority overburden thickness varies between 10.0 and 30.0 m. There are 4,423 bedrock wells and 677 overburden wells within the Hamilton Region Conservation Authority, indicating the overburden is not the main source of water supply. The thickness of the aquifer is small to allow for the development of large aquifers, and only two small aquifers have been identified in this Authority. The Valens Outwash Aquifer is located within Puslinch Township and the Ancaster-West Flamborough Aquifer is located above the Escarpment (Singer et. al., 2003).

The water well records available for the Study Area suggest that static water levels within the overburden range between 1.83 and 5.18 metres below ground surface (mbgs) in wells, drilled to depths ranging from 2.7 to 9.45 mbgs (MECP, 2020b; **Appendix A**). Locations of shallow groundwater (within 3 mbgs) in the Study Area are shown on **Figure 5**. These are concentrated within the western extent (around Lemonville Road north of Highway 403) and in the area immediately north of the interchange of Highway 403 and Highway 6.

Assessment of groundwater impacts, associated with proposed construction activities and mitigation measures, are discussed in Sections 5.0 and 6.0 of the GAR.

3.4.2 BEDROCK AQUIFER SYSTEM

The bedrock aquifer is the primary aquifer system within the Study Area. Based on the evidence of frequently exposed bedrock, significant quantities of groundwater may exist within the bedrock in the Study Area. This is particularly true where overburden is thin or absent.

Known as a shallow bedrock aquifer system, this system is characterized by many small, localized aquifers throughout the Study Area. Portions of the bedrock aquifer system may also be hydraulically connected to the overlying Halton Till, however, these may have limited groundwater supply compared to the deposits of sand and sandy gravel present in southern portion of the Study Area.

The Queenston Formation is characterized as regionally significant aquitard, however, as it is usually weathered in the upper layers, the fractures can transmit water at a sufficient rate for individual domestic use. This is confirmed by the Halton Region SPA (Halton-Hamilton Source Protection Committee, 2017) that states the bedrock wells below the escarpment are shallow and draw water from the weathered shale of the Queenston Formation, which provide groundwater in quantities adequate for individual domestic use.

3.4.3 GROUNDWATER FLOW

The groundwater flow from the unconfined aquifer will follow existing local topography to discharge areas. Flow within the deeper, confined aquifers will follow regional topographic watershed basin patterns. Shallow groundwater flow is directed towards major surface water features such as wetlands and streams.

It is interpreted that shallow groundwater flow follows the topography, towards surface water features such as the watercourses and associated wetlands and drainage ditches (see **Figure 2**).

3.4.4 GROUNDWATER RECHARGE AND DISCHARGE

As described in Section 2.4, the Study Area falls within both the Halton Region Source Protection Area (SPA) and the Hamilton Region SPA.

Significant groundwater recharge areas (SGRA) are defined as areas where groundwater recharge is 1.15 times greater than the average rate of recharge (CTC Source Protection Committee, 2015). They are areas where a high percentage of precipitation makes its way from the ground surface to recharge or replenish an aquifer. Based on the Source Protection Information Atlas (MECP, 2020a), there are no SGRA within the Study Area.

Highly vulnerable aquifers (HVAs) are mapped using information from MECP WWIS, hydraulic conductivity values, thickness of the described units, and location of the water table (CTC Source Protection Committee, 2015). There are also no HVAs within the Study Area (MECP, 2020a).

Areas of groundwater discharge are typically inferred to be present, using indicators of groundwater upwelling such as iron staining and presence of watercress. No indicators of groundwater upwelling were observed during the site visits on March 31, 2020. Additional details can be found in Section 4.0.

3.4.5 *AQUIFER SUSCEPTIBILITY TO CONTAMINATION*

Aquifer susceptibility maps identify areas where contamination of aquifers is likely to occur as a result of surface contamination, construction depths and multiple land use practices, due to the presence or absence of permeable surficial materials, depth to the groundwater table, presence of surface water features, and/or location relative to sensitive receptors such as surface water features, catch basins, etc. Generally, aquifer susceptibility is higher in areas characterized as having a shallow aquifer system.

The groundwater flow from the unconfined aquifer will follow existing local topography to discharge areas. Flow within the deeper, confined aquifers will follow regional topographic watershed basin patterns.

Shallow groundwater flow is directed towards major surface water features such as wetlands and streams.

As can be seen from **Figure 6**, areas of low and high groundwater susceptibility were identified within the Study Area, considering the following criteria:

- The areas identified as having a surficial geologic formation of high permeability such as sandy and/or gravelly (alluvium) deposits or exposed bedrock present within water stream valleys were marked as areas with high groundwater susceptibility; and
- Areas with an overburden composed of low permeability deposits such as clay were considered as having low groundwater susceptibility to contamination.

3.4.6 *SURFACE WATER SUSCEPTIBILITY TO CONTAMINATION*

Figure 6 shows areas of surface water susceptibility surrounding permanent and intermittent waterbodies. Watercourses are present throughout the Study Area, indicating medium to high surface water susceptibility to contamination.

4 STUDY AREA INSPECTION

WSP completed reconnaissance of the Study Area on March 31, 2020. The purpose of the visit was to evaluate the land use and topography of the Study Area, physiographic features that could have an influence on existing groundwater conditions as well as to confirm the presence of water servicing, surface water features and culverts in the Study Area. Photographs documenting the inspection results are presented following the text of the report.

The following observations were made during the inspection:

Current Land Use

- The land use in the Study Area was observed to be recreational, commercial, residential, and industrial;
- The land use in the north-western portion of the Study Area east of Highway 6 was primarily rural residential (Photograph 1);
- The land use in the central portion of the Study Area west of Highway 6 was primarily rural residential (Photograph 2); light industrial land use was found in north-western area (Photograph 3);
- The land use in the eastern portion of the Study Area, north of Highway 403 was primarily rural residential (Photograph 4);
- The land-use in the eastern portion of the Study Area south of Highway 403 was residential, commercial, and recreational (Photographs 5, 6, and 7);
- The land use in vicinity of the intersection of Highway 6 and Highway 403 is residential and commercial (Photographs 8 and 9);
- The land use in the southern portion of the Study Area is primarily recreational, related to presence of the Royal Botanical Gardens.

Surface Water and Groundwater Findings

- Water in ditches was either dry or pooled on March 31, 2020. Surface water flow direction could not be determined at the time of the site visit (Photographs 10, 11 and 12);
- Watercourses were present throughout the Study Area (Photographs 13, 14, 15, 16, 17, 18, and 19).

Municipal Servicing in Study Area

- The north-western portion of the Study Area east of Highway 6 along a portion of Mountain Brow Road appears to be municipally serviced (Photograph 20);



- The north-western portion of the Study Area west of Highway 6 appears to be municipally serviced (Photographs 21 and 22);
- The north-western portion of the Study Area east of Highway 6 appears to rely on private water wells along a portion of Mountain Brow Road (Photograph 23);
- The north-eastern portion of the Study Area south of Highway 403 appears to be municipally serviced (Photograph 24);
- The north-eastern portion of the Study Area north of Highway 403 appears to rely on private water wells along Lemonville Road, Old York Road and Snake Road (Photograph 25, 26 and 27);
- The southern portion of the Study Area along York Road appears to be municipally serviced (Photograph 28).

No groundwater discharge was observed by WSP during the site visit on March 31, 2020. AECOM staff observed a groundwater seep at WC-9DS culvert outlet (**Figure 2**) on June 11, 2020.



5 ASSESSMENT OF POTENTIAL GROUNDWATER IMPACTS

Based on the background information reviewed and inspection of the Study Area, WSP identified areas of potential concern that may be associated with construction activities of the project. Any adverse impacts may be more significant where PSWs or ANSIs were identified or where geological formations have high permeability (i.e., sands and gravels or fractures/dissolution areas in bedrock).

Below are areas which are expected to exhibit high sensitivity to surface activities:

- Areas with high permeability, as discussed in Section 3.4.5;
- Groundwater seepage area present at WC-9DS culvert outlet in the Study Area;
- Presence of a PSW in and adjacent to the eastern portion of the Study Area;
- Presence of four ANSIs within the Study Area;
- Areas where the MECF water well records indicate wells with a static water level less than 3 mbgs located within 50 m of Highway 403 and Highway 6; and
- Any private wells located within 50 m of Highway 403 and Highway 6.

Potential impacts resulting from construction activities related to rehabilitation/replacement of bridges, culverts and retaining walls are discussed below.

5.1 TEMPORARY AND PERMANENT CONSTRUCTION IMPACTS

5.1.1 CLEARING AND GRUBBING

The removal of trees and stumps, and other vegetation for improvements of the interchange of Highway 403 and Highway 6 may result in increased surface water runoff and a decrease in water infiltration into the subsurface. This can affect groundwater quantity and quality. Watercourses may also be affected due to an increase in the amount of suspended particles carried by surface water runoff.

5.1.2 GRADING

The use of heavy equipment to “cut” or “fill” the original topography within the Study Area (to grades specified in Detail Design contract drawings) can have a significant effect on groundwater. Excavations



made into the shallow aquifer system can result in temporary or permanent changes in groundwater flow patterns and could result in the need for dewatering.

Dewatering activities (e.g. discharging to an alternate location) may change the water supply to private water users; lead to settlement of the ground surface; and/or change the quality of the groundwater. An EASR/PTTW is required for active dewatering involving the extraction of more than 50,000 litres per day.

5.1.3 BRIDGES

Embankments, foundations, footings, abutments and piers may be required to be constructed as part of the rehabilitation/ replacement of bridges in the Study Area. This may result in obstruction and/or interception of groundwater as base flow to surface watercourses. It may be necessary to obtain an EASR/PTTW from the MECP for surface water and/or groundwater diversion for the bridge construction work.

5.1.4 PREPARATION OF THE ROAD BED

Compaction of the land prior to road surfacing activities can reduce groundwater recharge to the overburden and bedrock aquifer systems. Obstruction to groundwater recharge will have the greatest impact in upland (elevated) areas where permeable deposits are removed, compacted, or paved over. Obstruction to groundwater discharge may occur if compaction takes place adjacent to the surface water features and seepage zones. Compaction can also increase surface water runoff to nearby watercourses.

5.1.5 ROAD SURFACING

The rehabilitation and replacement of culverts in the Study Area may affect watercourses, due to an increase in amount of suspended particles carried by surface water runoff.

The installation of concrete and/or asphalt roadway surfaces during improvements to the Highway 403/Highway 6 Interchange can increase imperviousness and result in the entrainment or wash-off of residual material such as lime, cement, oil and grease, and asphalt into surface water runoff. Runoff can flow to nearby watercourses or adjacent areas where infiltration into the aquifer system may result in groundwater contamination if residuals are not appropriately managed.

5.1.6 OVERALL CHANGE IN GROUNDWATER RECHARGE AND DISCHARGE

Effects on groundwater recharge through the processes noted in the previous sections could reduce infiltration capacity to the aquifer system and result in an alteration of groundwater storage and flow patterns. Road construction activities might also disrupt groundwater discharge or result in the formation

of new discharge areas, which could impact groundwater quantity and flow; change water table levels; and/or result in a change in the distribution of wetlands.

Changes in surface water flow are generally reflected in a corresponding alteration of the groundwater flow pattern, specifically: flow rate, water level, and direction of flow. Some components of road construction might cause changes in the amount of surface water runoff, drainage patterns, water levels and flow volumes. In general, changes in groundwater quantity or flow in response to changes in surface water recharge are expected to be attenuated (i.e., more subdued in magnitude and potentially of longer duration).

5.2 POTENTIAL WATER WELL IMPACTS

Based on the visual reconnaissance completed for the Study Area in March 2020, it appears that the community within the Hidden Valley, located north of Highway 403 and properties along Mountain Brow Road, east of Highway 6, rely on private wells for water supply (**Figure 5**).

Any adverse water well impacts resulting from road construction activities are expected to be greatest for well users with the following conditions:

- In areas where construction work is being performed below the shallow water table. Groundwater seeping into the excavation has the potential to impact groundwater resources as groundwater will have to be pumped out during excavation. This action may lower the water table temporarily reducing water supply to local wells.
- Road construction activities have the potential to adversely impact the shallow aquifer through disturbing contaminated soils, or handling and management practices (e.g. spills of fuel, lubricants etc.), thus introducing contaminants that could enter the groundwater system and impact nearby water wells; and
- Road construction activities have the potential to physically impact water wells due to vibration and shock.

5.3 LIKELIHOOD OF RELEASE OF CONTAMINANTS

During any phase of road construction activities, due care should be exercised to avoid fuel, lubricant and fluid spills. Spill and contamination prevention practices should be implemented to avoid potential environmental hazards and cleanups. Where practical, activities such as refueling should not be undertaken in areas with high susceptibility to groundwater contamination, shown on **Figure 6**. Small spills and leaks during construction activities have the potential to affect areas of shallow groundwater and high permeability soils. The environmental impacts of spills on fine-grained soils are potentially the



most damaging to surface water quality due to runoff, whereas spills on more medium to coarse-grained soils are most damaging to groundwater resources.

Road salting within the Study Area will occur during the winter season. Concentrations of sodium and chloride will continue to be present in the runoff along roadside drainage ditches and through roadside infiltration, and will most likely impact surface water features. MTO employs and recognizes the importance of salt best management practices and has developed a Salt Management Plan in accordance with Environment Canada's Code of Practice for the Environmental Management of Road Salts (Environment Canada, 2004).

5.4 AQUIFER AND SURFACE WATER SUSCEPTIBILITY

There are multiple ANSIs and one PSW present within the Study Area, as discussed in **Section 2.3** and shown on **Figure 2**. Open channel with surface water in the Study Area has a high susceptibility to contamination (**Figure 6**).

5.4.1 WELLHEAD PROTECTION AREAS

Wellhead Protection Areas indicate areas around municipal groundwater systems where quality of drinking water source is more likely to be negatively impacted by certain activities (CTC Sources Protection Committee, 2015). There are no WHPAs within the Study Area.

5.4.2 INTAKE PROTECTION ZONES

As discussed in **Section 2.4**, multiple IPZs are present in close proximity to the Study Area (.



6 CONCLUSIONS AND RECOMMENDATIONS

This section discusses mitigation measures recommended to be implemented to protect groundwater and surface water resources within the Study Area during the construction stage of the project.

6.1 GENERAL RECOMMENDATIONS FOR DETAIL DESIGN

General recommendations for the Detail Design include:

- Maximize the distance from watercourses and surface water bodies, as practical;
 - Minimize the use of lands designated as having a high susceptibility to groundwater impacts (i.e., areas containing sand and gravel, potential groundwater discharge areas);
 - Minimize the need for deep cuts into the overburden, especially in areas having high susceptibility to groundwater impact; and
 - Choose areas for construction activities where minimal dewatering is required.
-

6.2 GROUNDWATER AND SURFACE WATER MITIGATION MEASURES

The OWRA states that the diversion of surface water or the extraction of groundwater in excess of 50,000 litres per day requires an EASR / PTTW from the MECP. Construction activities for the replacement/rehabilitation of bridges, culverts and retaining walls may result in groundwater / surface water takings.

This project will be required to be assessed during Detail Design when detailed construction information becomes available, to address the potential impacts of any construction dewatering on groundwater and/or surface water resources. As discussed in **Sections 3.2** and **3.4.1**, an EASR / PTTW may be required to be obtained for some sections of the project due to the presence of permeable soils, shallow groundwater, unserviced areas and presence of the PSW in the Study Area.

If it is determined during Detail Design that an EASR/PTTW is required for water control, wetlands and areas with the groundwater discharge or shallow water levels should be evaluated in detail in a report supporting an EASR/PTTW application. All groundwater studies for an EASR/PTTW will be conducted in accordance with the MECP guidelines.

In addition, quality of surface water will need to be protected during the construction stage of the project by avoiding fuel, lubricant and fluid spills and construction debris falling in road-side ditches, culverts and surface water catchment grates. Equipment refueling and maintenance activities should not take place within 30 m of a watercourse. A monitoring plan to prevent spills and fall of debris in surface water features and contingency plan to efficiently mitigate any potential spills should be prepared prior to the construction stage of the project.

6.3 MITIGATION MEASURES FOR PRIVATE WELLS

As described in Sections 3 and 4, private wells were observed to be present in the northern and north-eastern portions of the Study Area (see **Figure 5**). The rest of the Study Area is interpreted to be municipally serviced.

Based on the current scope of work, including rehabilitation / replacement of 14 bridge structures, three (3) structural culverts and retaining walls predominantly in the central and northern portions of the project area, water wells may be impacted by construction. It is recommended to complete water well surveys in unserviced areas where replacement of structures is proposed during Detail Design, to evaluate the sensitivity of these locations to construction activities once details design information is available.



7 QUALIFICATIONS

WSP is a leading, full-service engineering company that has seen successful growth in the past decade with a Canadian contingent of approximately 8,000 people making a significant contribution to our 34,000 global staff, based in more than 500 offices, across 40 countries. In 2015, WSP acquired SPL Consultants Limited and MMM Group Limited, which has resulted in the expansion of our environmental services in Ontario. WSP staff, including SPL and MMM (both wholly owned subsidiaries of WSP), employs about 450 environment staff in Ontario including Professional Engineers, Professional Geoscientists, Biologists and Certified Technicians.

The firm provides services to transform the built environment and restore the natural environment, and its expertise ranges from environmental remediation to urban planning, from engineering iconic buildings to designing sustainable transport networks, and from developing the energy sources of the future to enabling new ways of extracting essential resources. Our focus is technical excellence and client service.

Natalia Codoban, M.Eng., P.Eng., is a Senior Hydrogeologist / Project Manager in the Environmental Management Department (EMD). Ms. Codoban has an academic background in Earth / Environmental Sciences and Geology, and Environmental Engineering. She has over 15 years of consulting experience in completing and managing hydrogeological and environmental investigations. Natalia has provided expertise to numerous clean water and contaminant groundwater investigations, hydrogeological studies, Permit to Take Water (PTTW) applications, water balance evaluations and on-site servicing projects, developing impact assessments, landfill assessments, modelling groundwater flow and contaminant plume migration, seepage analyses and dewatering evaluations.

Haley Spennato, M.Sc., is an Environmental Scientist in the EMD with WSP. Ms. Spennato has an academic background in Earth / Environmental Science. Haley's field experience includes collecting hydrological and hydrogeological data, completing stream flow measurements, collection of soil samples and maintenance of Eddy-Covariance towers. Haley has experience analyzing various data sets and summarizing the scientific results into reports, such as theses, Groundwater Assessment Reports, and Environmental Activity and Sector Registry reports for numerous stakeholders.



8 STANDARD LIMITATIONS

WSP Canada Group Limited prepared this report solely for the use of the intended recipients, AECOM Canada Ltd. and Ontario Ministry of Transportation, in accordance with the professional services agreement between the parties. In the event a contract has not been executed, the parties agree that the WSP General Terms for Consultant shall govern their business relationship which was provided to you prior to the preparation of this report.

The report is intended to be used in its entirety. No excerpts may be taken to be representative of the findings in the assessment.

The conclusions presented in this report are based on work performed by trained, professional and technical staff, in accordance with their reasonable interpretation of current and accepted engineering and scientific practices at the time the work was performed.

The content and opinions contained in the present report are based on the observations and/or information available to WSP at the time of preparation, using investigation techniques and engineering analysis methods consistent with those ordinarily exercised by WSP and other engineering/scientific practitioners working under similar conditions, and subject to the same time, financial and physical constraints applicable to this project.

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In preparing this report, WSP has relied in good faith on information provided by others, as noted in the report. WSP has reasonably assumed that the information provided is correct and WSP is not responsible for the accuracy or completeness of such information.

Design recommendations given in this report are applicable only to the project and areas as described in the text and then only if constructed in accordance with the details stated in this report. The comments made in this report on potential construction issues and possible methods are intended only for the guidance of the designer. The number of testing and/or sampling locations may not be sufficient to determine all the factors that may affect construction methods and costs. We accept no responsibility for any decisions made or actions taken as a result of this report unless we are specifically advised of and participate in such action, in which case our responsibility will be as agreed to at that time.

Overall conditions can only be extrapolated to an undefined limited area around these testing and sampling locations. The conditions that WSP interprets to exist between testing and sampling points may differ from those that actually exist. The accuracy of any extrapolation and interpretation beyond the sampling locations will depend on natural conditions, the history of Site development and changes through construction and other activities. In addition, analysis has been carried out for the identified chemical and physical parameters only, and it should not be inferred that other chemical species or physical conditions are not present. WSP cannot warrant against undiscovered environmental liabilities or adverse impacts off-Site.

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This limitations statement is considered an integral part of this report.

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PHOTOGRAPHS



PHOTOGRAPH 1: RURAL RESIDENTIAL LAND IN NORTH-WESTERN PORTION OF STUDY AREA. FACING EAST DOWN MOUNTAIN BROW ROAD



PHOTOGRAPH 2: RURAL RESIDENTIAL LAND IN CENTRAL PORTION OF STUDY AREA. ATKINSON BOULEVARD, FACING SOUTH-EAST



PHOTOGRAPH 3: LIGHT INDUSTRIAL LAND IN NORTH-WESTERN AREA
(INNOVATION DRIVE)



PHOTOGRAPH 4: HIDDEN VALLEY ROAD IN EASTERN PORTION OF STUDY
AREA, FACING WEST



PHOTOGRAPH 5: RESIDENTIAL NEIGHBOURHOOD AT SANDCHERRY DRIVE,
SOUTH-EASTERN PORTION OF STUDY AREA



PHOTOGRAPH 6: COMMERCIAL LAND USE ON SUMACH DRIVE, SOUTH-EASTERN PORTION OF STUDY AREA



PHOTOGRAPH 7: HIDDEN VALLEY PARK, SOUTH-EAST PORTION OF STUDY AREA



PHOTOGRAPH 8: NEIGHBOURHOOD ON PLAINS ROAD WEST, SOUTHERN PORTION OF STUDY AREA



PHOTOGRAPH 9: COMMERCIAL PROPERTIES ON PLAINS ROAD WEST, CENTRAL PORTION OF THE STUDY AREA



PHOTOGRAPH 10: DRY DITCH ON WEST SIDE OF YORK ROAD IN NORTHERN PORTION OF STUDY AREA, FACING SOUTH-WEST



PHOTOGRAPH 11: DITCH ALONG HIGHWAY 403 NORTHBOUND, FACING NORTH



PHOTOGRAPH 12: POOLED WATER IN DITCH ON ZELLENS ROAD IN WESTERN PORTION OF THE STUDY AREA, FACING WEST



PHOTOGRAPH 13: TRIBUTARY OF GRINDSTONE CREEK, PHOTOGRAPH TAKEN FROM HOWARD ROAD, FACING NORTH



PHOTOGRAPH 14: GRINDSTONE CREEK, PHOTOGRAPH TAKEN FROM HIDDEN VALLEY ROAD AT HIDDEN VALLEY PARK



PHOTOGRAPH 15: GRINDSTONE CREEK, PHOTOGRAPH TAKEN FROM HIDDEN VALLEY ROAD AT HIDDEN VALLEY PARK



PHOTOGRAPH 16: GRINDSTONE CREEK. PHOTOGRAPH TAKEN FROM
LEMONVILLE ROAD, FACING SOUTH-WEST



PHOTOGRAPH 17: TRIBUTARY OF GRINDSTONE CREEK. PHOTOGRAPH TAKEN FROM OLD YORK ROAD, FACING WEST



PHOTOGRAPH 18: TRIBUTARY OF GRINDSTONE CREEK. PHOTOGRAPH TAKEN FROM UNSWORTH AVENUE, FACING NORTH



PHOTOGRAPH 19: TRIBUTARY OF GRINDSTONE CREEK. PHOTOGRAPH TAKEN FROM HIGHWAY 6 OFF-RAMP, FACING WEST



PHOTOGRAPH 20: HYDRANT ON MOUNTAIN BROW ROAD



PHOTOGRAPH 21: HYDRANT ON YORK BOULEVARD



PHOTOGRAPH 22: HYDRANTS PRESENT NEAR MARY VALE AVENUE



PHOTOGRAPH 23: DRILLED WELL AT 720 MOUNTAIN BROW ROAD



PHOTOGRAPH 24: HYDRANT PRESENT ON SANDCHERRY DRIVE



PHOTOGRAPH 25: DUG WELL AT 1318 HIDDEN VALLEY ROAD



PHOTOGRAPH 26: NO MUNICIPAL SERVICING OBSERVED ON OLD YORK ROAD



PHOTOGRAPH 27: NO MUNICIPAL SERVICING OBSERVED AT THE INTERSECTION OF CRANE COURT AND SNAKE ROAD



PHOTOGRAPH 28: MUNICIPAL SERVICING PRESENT ALONG YORK BOULEVARD

FIGURES

APPENDIX

A

MECP WATER WELL
RECORDS

APPENDIX



PHOTOGRAPHS



PHOTOGRAPH 1: RURAL RESIDENTIAL LAND IN NORTH-WESTERN PORTION OF STUDY AREA. FACING EAST DOWN MOUNTAIN BROW ROAD



PHOTOGRAPH 2: RURAL RESIDENTIAL LAND IN CENTRAL PORTION OF STUDY AREA. ATKINSON BOULEVARD, FACING SOUTH-EAST



PHOTOGRAPH 3: LIGHT INDUSTRIAL LAND IN NORTH-WESTERN AREA
(INNOVATION DRIVE)



PHOTOGRAPH 4: HIDDEN VALLEY ROAD IN EASTERN PORTION OF STUDY
AREA, FACING WEST



PHOTOGRAPH 5: RESIDENTIAL NEIGHBOURHOOD AT SANDCHERRY DRIVE,
SOUTH-EASTERN PORTION OF STUDY AREA



PHOTOGRAPH 6: COMMERCIAL LAND USE ON SUMACH DRIVE, SOUTH-EASTERN PORTION OF STUDY AREA



PHOTOGRAPH 7: HIDDEN VALLEY PARK, SOUTH-EAST PORTION OF STUDY AREA



PHOTOGRAPH 8: NEIGHBOURHOOD ON PLAINS ROAD WEST, SOUTHERN PORTION OF STUDY AREA



PHOTOGRAPH 9: COMMERCIAL PROPERTIES ON PLAINS ROAD WEST, CENTRAL PORTION OF THE STUDY AREA



PHOTOGRAPH 10: DRY DITCH ON WEST SIDE OF YORK ROAD IN NORTHERN PORTION OF STUDY AREA, FACING SOUTH-WEST



PHOTOGRAPH 11: DITCH ALONG HIGHWAY 403 NORTHBOUND, FACING NORTH



PHOTOGRAPH 12: POOLED WATER IN DITCH ON ZELLENS ROAD IN WESTERN PORTION OF THE STUDY AREA, FACING WEST



PHOTOGRAPH 13: TRIBUTARY OF GRINDSTONE CREEK, PHOTOGRAPH TAKEN FROM HOWARD ROAD, FACING NORTH



PHOTOGRAPH 14: GRINDSTONE CREEK, PHOTOGRAPH TAKEN FROM HIDDEN VALLEY ROAD AT HIDDEN VALLEY PARK



PHOTOGRAPH 15: GRINDSTONE CREEK, PHOTOGRAPH TAKEN FROM HIDDEN VALLEY ROAD AT HIDDEN VALLEY PARK



PHOTOGRAPH 16: GRINDSTONE CREEK. PHOTOGRAPH TAKEN FROM
LEMONVILLE ROAD, FACING SOUTH-WEST



PHOTOGRAPH 17: TRIBUTARY OF GRINDSTONE CREEK. PHOTOGRAPH TAKEN FROM OLD YORK ROAD, FACING WEST



PHOTOGRAPH 18: TRIBUTARY OF GRINDSTONE CREEK. PHOTOGRAPH TAKEN FROM UNSWORTH AVENUE, FACING NORTH



PHOTOGRAPH 19: TRIBUTARY OF GRINDSTONE CREEK. PHOTOGRAPH TAKEN FROM HIGHWAY 6 OFF-RAMP, FACING WEST



PHOTOGRAPH 20: HYDRANT ON MOUNTAIN BROW ROAD



PHOTOGRAPH 21: HYDRANT ON YORK BOULEVARD



PHOTOGRAPH 22: HYDRANTS PRESENT NEAR MARY VALE AVENUE



PHOTOGRAPH 23: DRILLED WELL AT 720 MOUNTAIN BROW ROAD



PHOTOGRAPH 24: HYDRANT PRESENT ON SANDCHERRY DRIVE



PHOTOGRAPH 25: DUG WELL AT 1318 HIDDEN VALLEY ROAD



PHOTOGRAPH 26: NO MUNICIPAL SERVICING OBSERVED ON OLD YORK ROAD

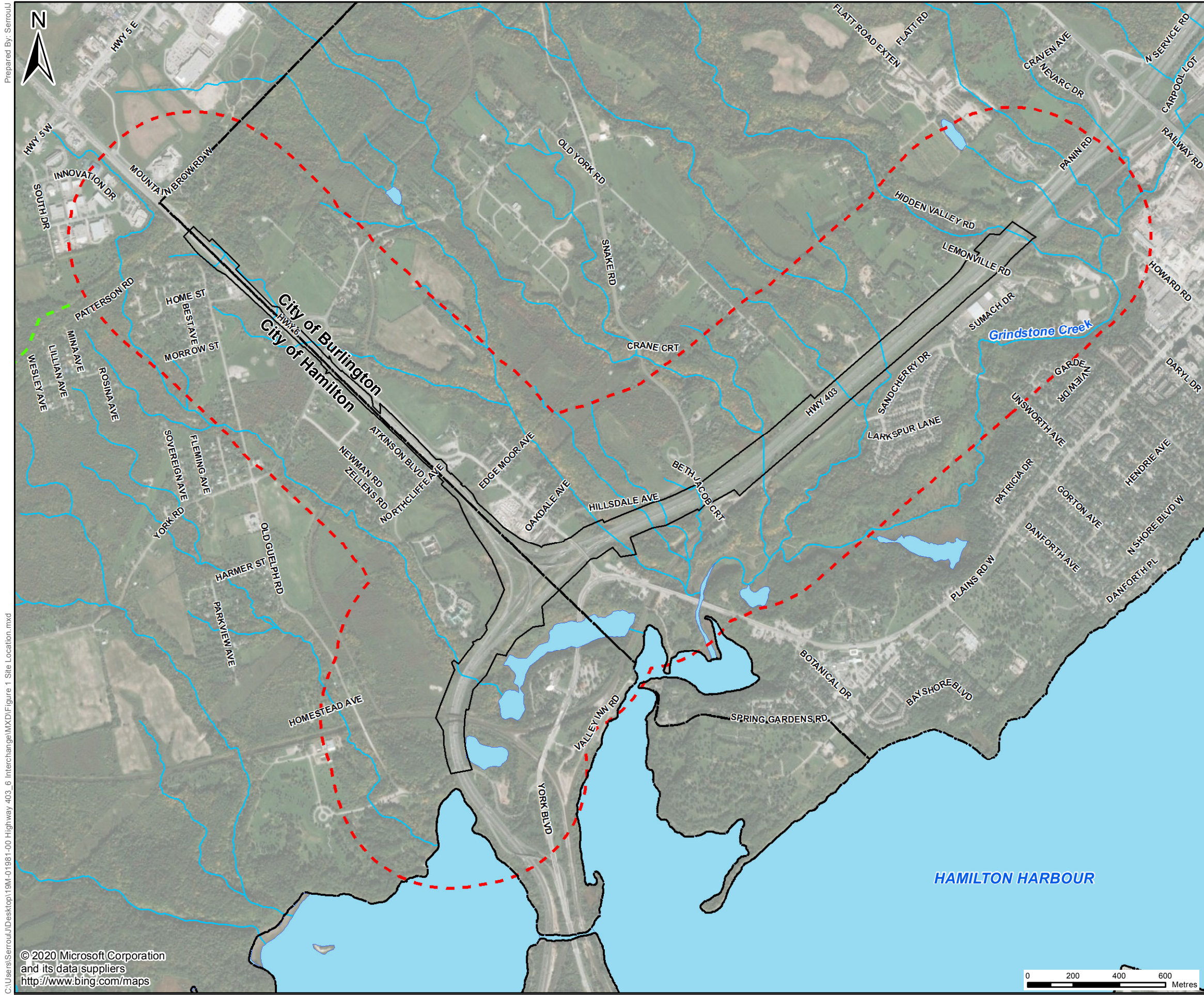


PHOTOGRAPH 27: NO MUNICIPAL SERVICING OBSERVED AT THE INTERSECTION OF CRANE COURT AND SNAKE ROAD




PHOTOGRAPH 28: MUNICIPAL SERVICING PRESENT ALONG YORK BOULEVARD

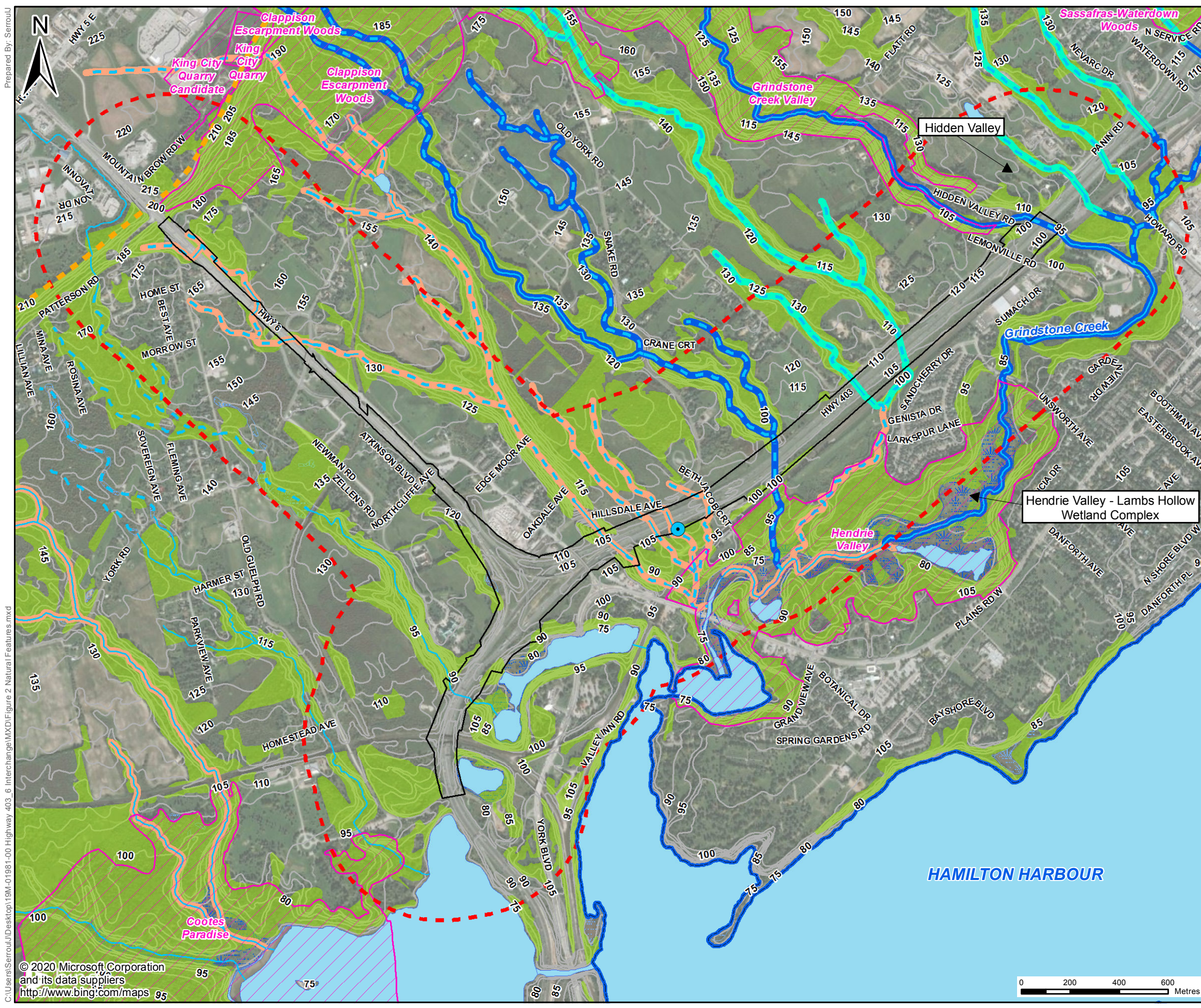
FIGURES



LEGEND:

- MTO Right-of-Way
- - - 500m Study Area Buffer
- - - Bruce Trail
- Watercourses
- - - Municipal Boundary
- Waterbodies

TITLE: STUDY AREA PLAN		
PROJECT: GROUNDWATER ASSESSMENT REPORT HIGHWAY 403 & HIGHWAY 6 INTERCHANGE HAMILTON/BURLINGTON, ONTARIO		
CLIENT: ONTARIO MINISTRY OF TRANSPORTATION		
	PROJECT NO.: 19M-01981-00	REVIEWED BY: AB
	DATE: AUGUST 2020	FIGURE: 1



LEGEND:

- MTO Right-of-Way
- - - 500m Study Area Buffer
- - - Approximate Edge of Niagara Escarpment
- Intake Protection Zone -3
- Groundwater Seepage (June 11, 2020)
- Wooded Areas
- Area of Natural and Scientific Interest
- Topographic Contours

Watercourses

- Permanent
- Intermittent
- Waterbodies

Wetlands

- Provincially Significant Wetland
- Non-Evaluated Wetland

Thermal Regime

- Cold
- Cool
- Warm

TITLE:

NATURAL AND URBAN FEATURES IN STUDY AREA

PROJECT:

GROUNDWATER ASSESSMENT REPORT
HIGHWAY 403 & HIGHWAY 6 INTERCHANGE
HAMILTON/BURLINGTON, ONTARIO

CLIENT:

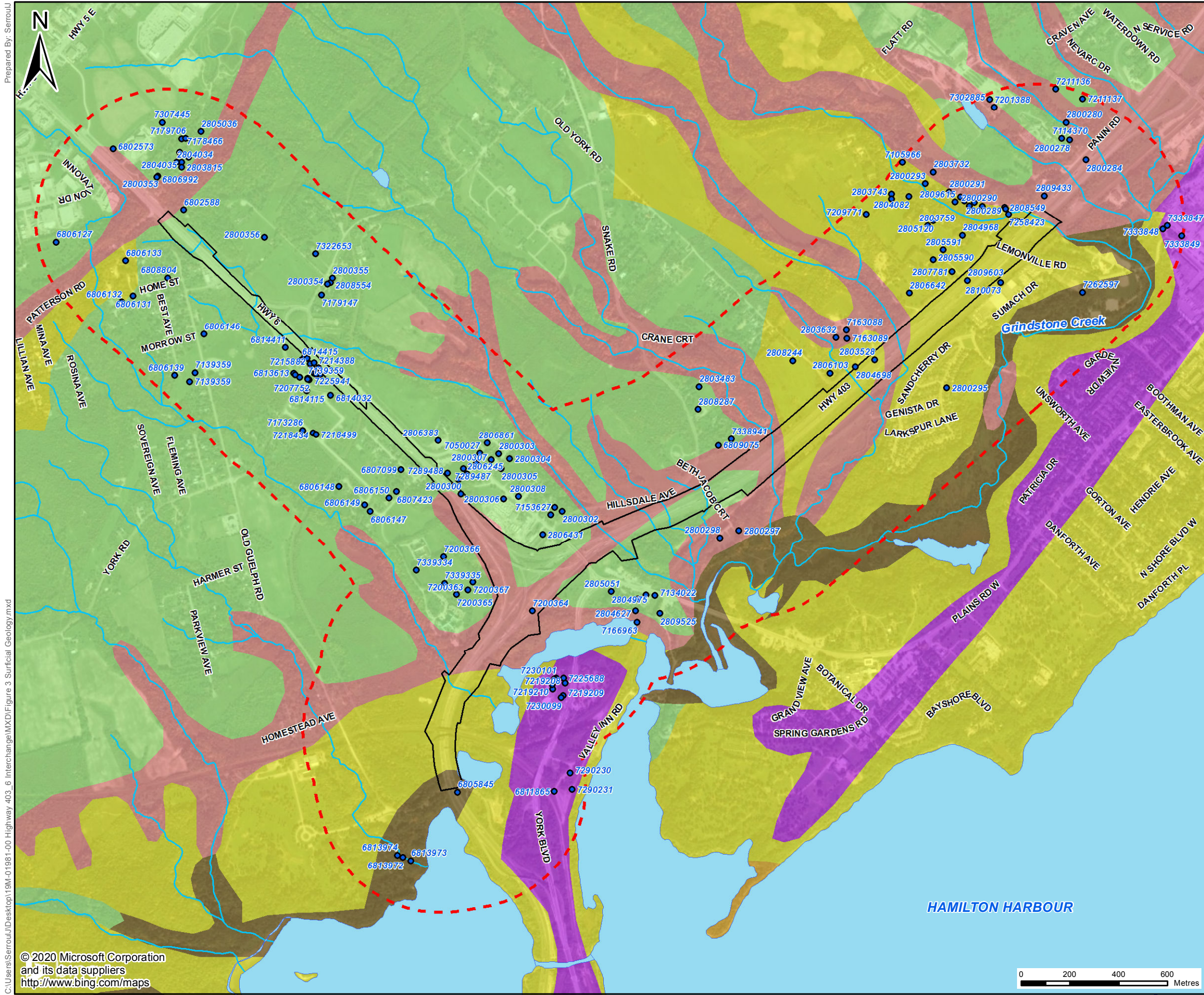
ONTARIO MINISTRY OF TRANSPORTATION

PROJECT NO.:	19M-01981-00	REVIEWED BY:
DATE:	AUGUST 2020	FIGURE:
		2

Prepared By: Serroul

C:\Users\Serroul\Desktop\19M-01981-00 Highway 403_6 Interchange\MXD\Figure 2 Natural Features.mxd

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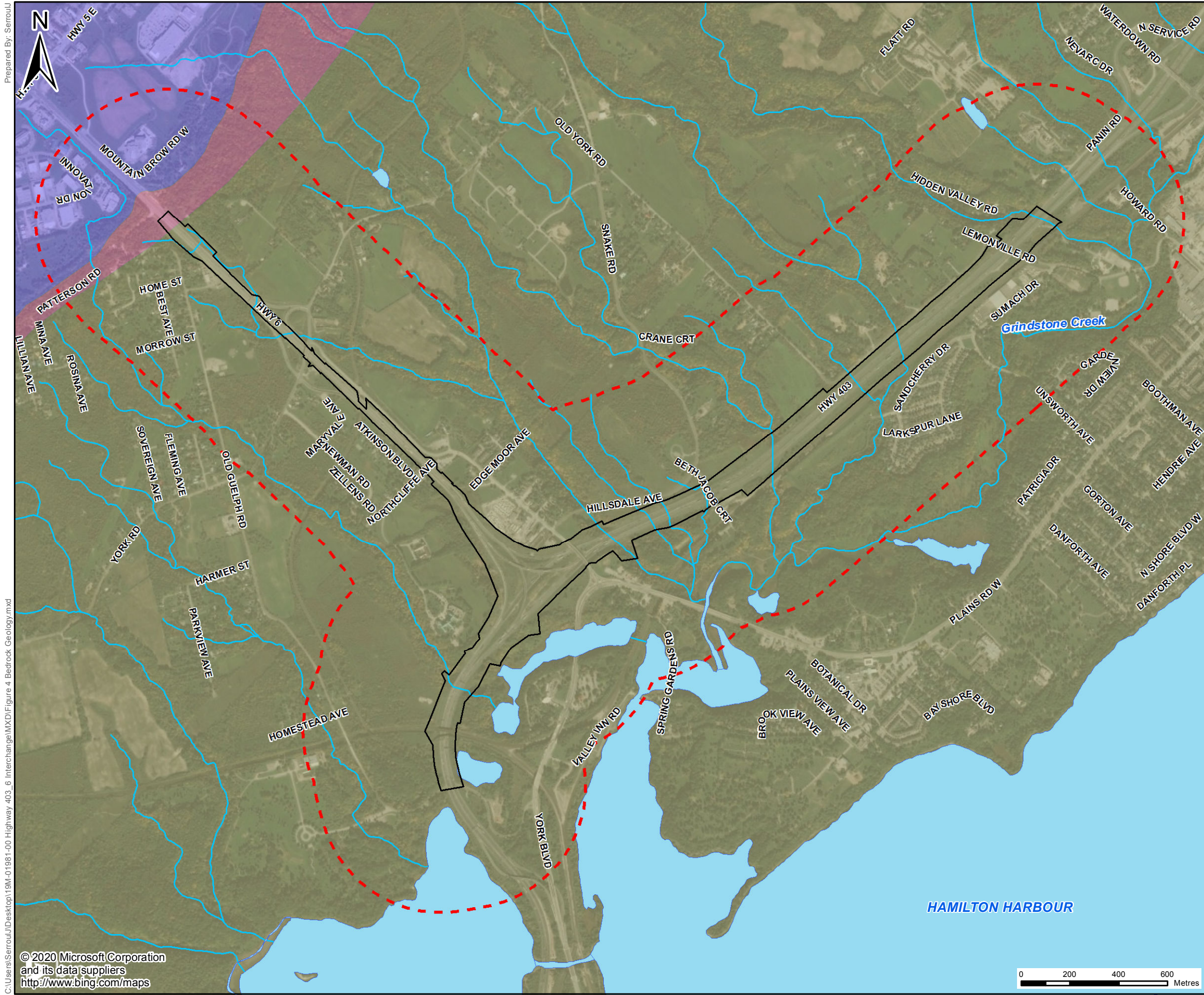
LEGEND:

- MTO Right-of-Way
- - - 500m Study Area Buffer
- MECP Water Well Record
- Watercourses
- Waterbodies

Surficial Geology

- Bedrock
- Halton Till
- Sand
- Gravel
- Sand and Gravel
- Stream Deposits

TITLE: SURFICIAL GEOLOGY		
PROJECT: GROUNDWATER ASSESSMENT REPORT HIGHWAY 403 & HIGHWAY 6 INTERCHANGE HAMILTON/BURLINGTON, ONTARIO		
CLIENT: ONTARIO MINISTRY OF TRANSPORTATION		
	PROJECT NO.: 19M-01981-00	REVIEWED BY: NC
	DATE: AUGUST 2020	FIGURE: 3




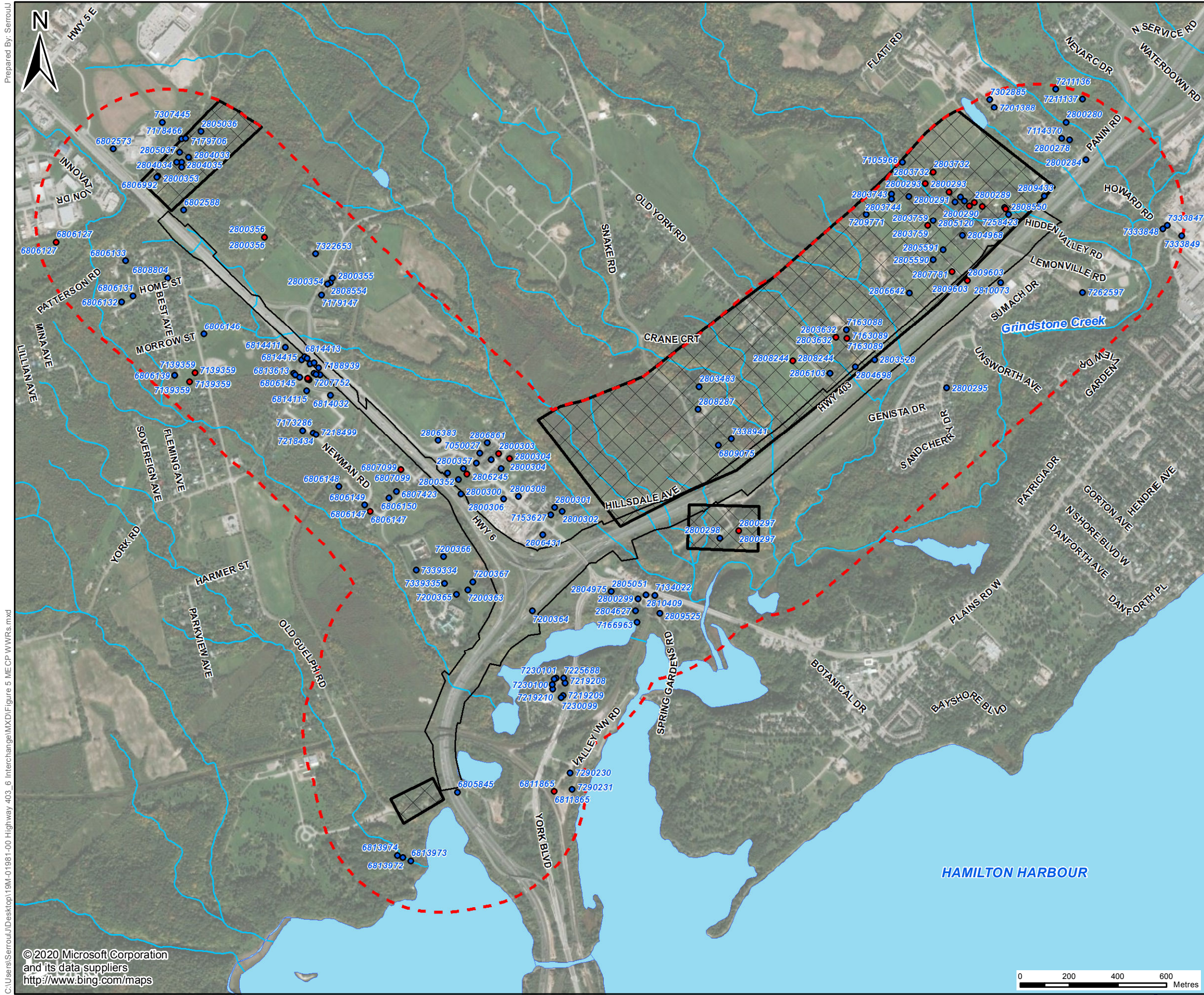
LEGEND:

- MTO Right-of-Way
- - - 500m Study Area
- Watercourses
- Waterbodies

Bedrock Geology

- Dolostone (Amabel Formation)
- Shale (Queenston Formation)
- Shale/Dolostone/Sandstone (Clinton-Cataract Formation)

TITLE: BEDROCK GEOLOGY		
PROJECT: GROUNDWATER ASSESSMENT REPORT HIGHWAY 403 & HIGHWAY 6 INTERCHANGE HAMILTON/BURLINGTON, ONTARIO		
CLIENT: ONTARIO MINISTRY OF TRANSPORTATION		
	PROJECT NO.: 19M-01981-00	REVIEWED BY: NC
	DATE: AUGUST 2020	FIGURE: 4



LEGEND:

- MTO Right-of-Way
- - - 500m Study Area Buffer
- ▨ Municipally Unserved Areas
- MECP Water Well Records
- Water Well Records - SWL <3 mbgs
- Watercourses
- Waterbodies

TITLE:
MECP WATER WELL RECORDS

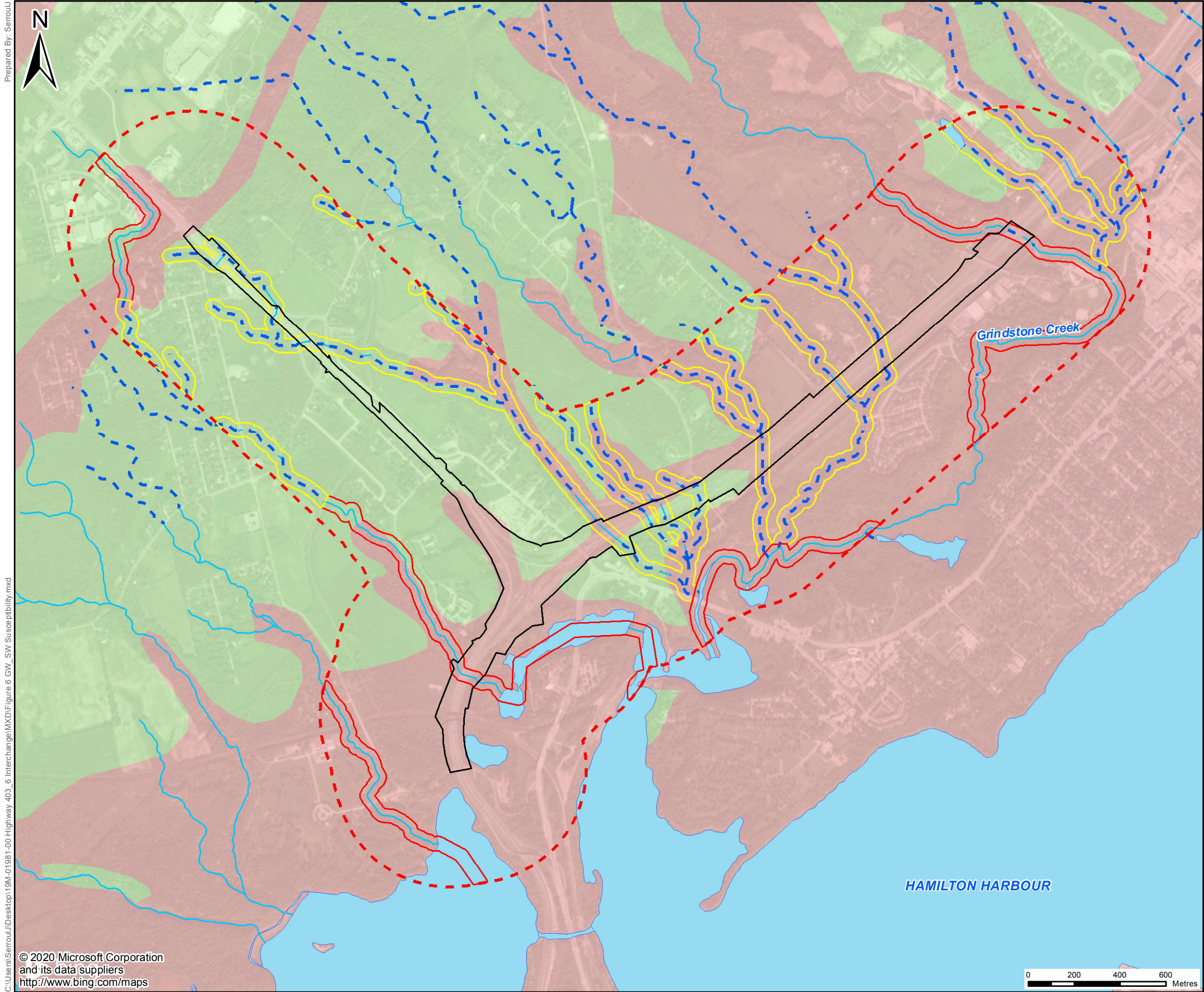
PROJECT:
GROUNDWATER ASSESSMENT REPORT
HIGHWAY 403 & HIGHWAY 6 INTERCHANGE
HAMILTON/BURLINGTON, ONTARIO

CLIENT:
ONTARIO MINISTRY OF TRANSPORTATION




PROJECT NO.:
19M-01981-00
DATE:
AUGUST 2020

REVIEWED BY:
NC
FIGURE:
5



LEGEND:

- MTO Right-of-Way
- - - 500m Study Area Buffer
- Waterbodies
- Watercourses**
 - Permanent
 - - - Intermittent
- Surface Water Susceptibility**
 - High
 - Medium
- Groundwater Susceptibility**
 - High
 - Low

TITLE: GROUNDWATER AND SURFACE WATER SUSCEPTIBILITY		
PROJECT: GROUNDWATER ASSESSMENT REPORT HIGHWAY 403 & HIGHWAY 6 INTERCHANGE HAMILTON/BURLINGTON, ONTARIO		
CLIENT: ONTARIO MINISTRY OF TRANSPORTATION		
	PROJECT NO.: 19M-01981-00	REVIEWED BY: NC
	DATE: AUGUST 2020	FIGURE: 6

APPENDIX



A

MECP WATER WELL
RECORDS

Table 1: MECP Water Well Records
Groundwater Assessment Report
Highway 403 and Highway 6 Interchange Improvements
Hamilton, Ontario

WELL_ID	Well Depth (m)	Final Status	Water Use 1	SWL (mbgs)	Date Completed	Depth to Bedrock (mbgs)	Well Type	Water Depth (mbgs)	Water Kind	Water Found Elev. (masl)
2800278	18.90	Water Supply	Domestic	11.58	10-May-59	24	Bedrock	18.90	FRESH	97.43
2800280	19.81	Water Supply	Domestic	9.14	30-Nov-62	22	Bedrock	17.07	FRESH	98.28
2800284	19.81	Water Supply	Domestic	9.14	25-Feb-57	20	Bedrock	18.29	FRESH	90.89
2800288	17.37	Water Supply	Domestic	6.10	07-Jul-50	40	Bedrock	16.46	FRESH	80.64
2800289	8.84	Water Supply	Domestic	2.44	17-Feb-59	8	Bedrock	7.92	FRESH	91.03
2800290	9.14	Water Supply	Domestic	2.44	19-Feb-59	8	Bedrock	8.23	FRESH	88.86
2800291	9.14	Water Supply	Domestic	2.44	08-Jul-59	8	Bedrock	7.62	FRESH	90.48
2800293	8.53	Water Supply	Domestic	1.22	05-May-60	8	Bedrock	7.92	FRESH	92.26
2800294	11.58	Water Supply	Domestic	2.74	27-Mar-67	11	Bedrock	7.62	FRESH	90.67
2800295	22.86	Water Supply	Domestic	15.24	26-Feb-50	32	Bedrock	21.34	FRESH	81.01
2800297	10.67	Water Supply	Domestic	3.05	18-Sep-53	6	Bedrock			
2800298	27.43	Water Supply	Commerical	13.11	01-Sep-61	20	Bedrock	11.58	FRESH	88.76
2800299	28.04	Water Supply	Commerical	12.50	17-Aug-51	21	Bedrock	26.21	FRESH	73.15
2800300	10.67	Water Supply	Domestic	6.10	17-May-52	20	Bedrock	10.06	FRESH	115.46
2800301	15.24	Water Supply	Domestic	7.32	07-May-53	33	Bedrock	14.94	FRESH	108.44
2800302	18.29	Water Supply	Domestic	7.32	08-Nov-56	26	Bedrock	14.63	FRESH	105.53
2800303	10.67	Water Supply	Domestic	3.05	25-Apr-57	14	Bedrock	10.67	FRESH	119.17
2800304	13.72	Water Supply	Domestic	3.05	14-May-57	15	Bedrock	13.72	FRESH	116.26
2800305	18.29	Water Supply	Domestic	6.10	18-Jun-59	4	Bedrock	10.67	FRESH	118.39
2800306	24.38	Water Supply	Domestic	6.10	21-Jul-59	6	Bedrock	9.75	FRESH	114.06
2800307	21.34	Water Supply	Domestic	10.67	31-Mar-62	66	Bedrock	21.03	FRESH	109.09
2800308	12.19	Water Supply	Commerical	4.57	17-Jun-66	22	Bedrock	11.58	FRESH	113.40
2800352	15.24	Water Supply	Domestic	7.62	20-May-52	31	Bedrock	14.63	FRESH	113.68
2800353	35.05	Water Supply	Domestic	4.27	10-Jul-56	25	Bedrock	10.97	SALTY	207.38
2800354	32.31	Water Supply	Domestic	10.97	15-Oct-58	66	Bedrock	32.00	SALTY	122.01
2800355	27.13	Water Supply	Domestic	10.97	30-Oct-58	61	Bedrock	26.52	SALTY	127.44
2800356	22.86	Water Supply	Domestic	3.05	20-Nov-59	44	Bedrock	22.86	FRESH	142.63
2800357	10.06	Water Supply	Domestic	4.27	19-Jun-62	10	Bedrock	10.06	FRESH	120.18
2803483	12.19	Water Supply	Domestic	5.18	02-Dec-70	16	Bedrock	7.92	FRESH	117.63
2803632	8.53	Water Supply	Domestic	1.83	12-Jan-71	8	Bedrock	5.49	FRESH	115.01
2803732	7.32	Water Supply	Domestic	1.83	30-Jun-71		Overburden	3.35	FRESH	121.35
2803744	9.45	Water Supply	Domestic	5.18	20-Nov-71		Overburden	5.18	FRESH	126.67
2803759	9.14	Water Supply	Domestic	3.05	19-Aug-71		Overburden	4.27	FRESH	121.15
2804034	21.34	Water Supply	Domestic	12.19	05-Jul-72	4	Bedrock	19.81	FRESH	199.96
2804082	11.58	Water Supply	Domestic	8.84	13-Mar-73	35	Bedrock	5.18	FRESH	112.22
2804627	32.00	Water Supply	Domestic	18.29	18-Nov-74	20	Bedrock	29.26	FRESH	62.82
2804698	18.29	Water Supply	Domestic	10.36	20-Feb-75	29	Bedrock	17.37	FRESH	92.74
2804968	19.20	Water Supply	Domestic	10.36	15-Dec-76	34	Bedrock	17.68	FRESH	107.30

Table 1: MECP Water Well Records
Groundwater Assessment Report
Highway 403 and Highway 6 Interchange Improvements
Hamilton, Ontario

WELL_ID	Well Depth (m)	Final Status	Water Use 1	SWL (mbgs)	Date Completed	Depth to Bedrock (mbgs)	Well Type	Water Depth (mbgs)	Water Kind	Water Found Elev. (masl)
2804975	36.58	Water Supply	Commerical	22.25	07-Feb-77	33	Bedrock	33.22	FRESH	66.48
2805036	27.43	Water Supply	Domestic	10.67	12-Jun-74	2	Bedrock	19.81	FRESH	195.90
2805037	30.48	Water Supply	Domestic	22.56	12-Jun-74	2	Bedrock	27.43	FRESH	191.69
2805051	30.48	Water Supply	Domestic	13.72	19-May-77	28	Bedrock	29.26	FRESH	70.44
2805120	19.81	Water Supply	Domestic	8.53	14-Sep-77	30	Bedrock	12.80	FRESH	111.85
2805590	18.29	Water Supply	Domestic	7.62	21-Nov-80	32	Bedrock	14.33	FRESH	110.15
2805591	13.72	Water Supply	Domestic	6.10	05-Dec-80	21	Bedrock	10.97	FRESH	113.23
2806103	15.24	Water Supply	Domestic	8.53	20-Jan-84	22	Bedrock	12.19	FRESH	104.61
2806245	10.67		Domestic	3.05	03-May-84	2	Bedrock	6.71	FRESH	121.52
2806383	18.29	Water Supply	Commerical	6.71	21-Dec-85	25	Bedrock	15.85	FRESH	117.41
2806431	18.29	Water Supply	Commerical	6.71	19-Mar-86	30	Bedrock	14.33	FRESH	106.31
2806642	27.43	Water Supply	Domestic	18.29	11-May-87	25	Bedrock	25.91	FRESH	95.46
2806861	12.19	Water Supply	Domestic	5.18	25-Mar-88	18	Bedrock	5.49	Not stated	124.85
2807781	11.28	Water Supply	Domestic	2.74	18-Mar-91	20	Bedrock	2.74	FRESH	119.40
2808244	18.29	Water Supply	Domestic	1.83	16-May-94	24	Bedrock	7.92	Not stated	110.83
2808287	21.34	Water Supply	Domestic		31-Oct-94	33	Bedrock			
2808550	9.14	Water Supply	Domestic	1.22	26-May-97	8	Bedrock	7.92	Not stated	88.97
2809433	15.24	Water Supply	Domestic		10-Jul-01	30	Bedrock	9.45	Not stated	109.41
2809603	12.19	Water Supply	Domestic	1.52	13-May-02	12	Bedrock	7.01	FRESH	107.42
2809615	18.29			3.35	07-Aug-02	8	Bedrock	7.01	Not stated	89.80
2810073	6.00	Observation Wells	Not Used		04-Jun-04	12	Bedrock	3.00		101.58
2810409	6.00	Observation Wells	Not Used		01-Jun-05	16	Bedrock	5.00		95.38
6802573	29.26	Water Supply	Domestic	23.16	24-Jun-53	0	Bedrock	24.38	FRESH	192.73
6805845	11.89	Water Supply	Domestic	6.40	14-Oct-55	38	Bedrock	11.89	SALTY	68.18
6806127	14.63	Water Supply	Domestic	2.74	05-Jul-48	7	Bedrock	14.63	FRESH	198.64
6806131	11.58	Water Supply	Domestic		12-May-60	9	Bedrock	11.58	FRESH	160.99
6806132	35.36	Water Supply	Domestic	10.67	10-Jun-60	47	Bedrock	35.36	FRESH	137.97
6806145	16.76	Water Supply	Domestic	6.71	12-Jul-52	53	Bedrock	16.15	FRESH	131.18
6806146	26.52	Water Supply	Domestic	7.62	25-Jun-62	46	Bedrock	24.38	FRESH	133.50
6806147	13.72	Water Supply	Irrigation	2.44	08-Jun-51	23	Bedrock	13.72	FRESH	117.06
6806148	18.29	Water Supply	Domestic	4.57	04-Aug-51	39	Bedrock	18.29	FRESH	115.01
6806149	20.12	Water Supply	Domestic	9.14	10-Dec-52	40	Bedrock	20.12	FRESH	110.58
6806150	11.89	Water Supply	Domestic	3.35	15-Nov-65	38	Bedrock	3.35	FRESH	127.14

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Groundwater Assessment Report
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Hamilton, Ontario

WELL_ID	Well Depth (m)	Final Status	Water Use 1	SWL (mbgs)	Date Completed	Depth to Bedrock (mbgs)	Well Type	Water Depth (mbgs)	Water Kind	Water Found Elev. (masl)
6807099	7.92	Water Supply	Domestic	1.22	21-Mar-69	18	Bedrock	3.66	FRESH	128.24
6807423	14.63	Water Supply	Domestic	4.88	19-Feb-70	36	Bedrock	12.50	FRESH	117.76
6808804	15.85	Water Supply	Domestic	4.57	28-Aug-73	48	Bedrock	15.24	FRESH	151.16
6809075	7.62	Water Supply	Domestic	3.66	19-Dec-74	10	Bedrock	7.62	FRESH	108.49
6811865	7.01	Water Supply	Domestic	2.13	19-Feb-90		Overburden	2.13	FRESH	97.85
6813972	4.60	Observation	Not Used		01-Dec-03		Overburden	1.50	FRESH	74.77
6813973	3.00	Observation	Not Used		01-Dec-03		Overburden	1.30	FRESH	74.31
6813974	2.70	Observation	Not Used		01-Dec-03		Overburden	1.30	FRESH	75.77
6814115	6.00	Observation Wells	Not Used		06-Jul-04		Overburden	4.50		141.46
7105966					13-Apr-08					
7114370	11.28	Observation Wells			18-Apr-08					
7134022	7.62	Observation Wells	Monitoring		21-Sep-09					
7139359	3.90	Test Hole		3.00	10-Dec-09			1.50		152.22
7163089	8.38	Water Supply	Domestic	2.69	18-Mar-11			3.35	Untested	117.58
7166963	7.62	Test Hole	Test Hole		20-Jun-11					
7172021					03-Nov-11					
7173286					18-Dec-10					
7178466	32.00	Water Supply	Domestic	24.38	02-Jul-11			29.57	FRESH	189.44
7179147					09-Jan-12					
7188939					05-Jul-12					
7200363	17.68	Observation Wells	Monitoring		03-Apr-13					
7200364	17.68	Observation Wells	Monitoring		28-Mar-13					
7200365	14.63	Observation Wells	Monitoring		02-Apr-13					
7200366	14.63	Observation Wells	Monitoring		26-Mar-13					
7200367	14.81	Observation	Monitoring		27-Mar-13					
7201388	15.00		Dewatering		10-Mar-13			1.20		123.35
7207753					25-Jul-13					
7209771	13.11	Water Supply	Domestic	3.51	07-Oct-13			13.11	FRESH	116.67
7211136	7.50	Observation Wells	Monitoring		03-Jul-13					
7211137	6.00	Observation Wells	Monitoring		03-Jul-13					
7214388					22-Nov-13					
7218434					21-Feb-14					
7218499		Test Hole	Test Hole		19-Feb-14					
7219208	21.34	Observation Wells	Monitoring		25-Mar-14			20.73	Untested	78.80

Table 1: MECP Water Well Records
Groundwater Assessment Report
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Hamilton, Ontario

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7219209	14.33	Observation Wells	Monitoring		24-Mar-14			12.50	Untested	87.06
7219210	14.33	Observation Wells	Monitoring		24-Mar-14			12.80		86.23
7219211	20.73	Observation Wells	Monitoring		25-Mar-14			20.42	Untested	78.20
7225941					29-Jul-14					
7253098	13.72		Monitoring		29-Sep-15					
7258423	6.10	Observation Wells	Monitoring		23-Nov-15					
7262597					30-Oct-12					
7289487	7.62	Observation Wells	Monitoring		13-Jun-17			0.00	Untested	130.35
7289488	7.62	Observation Wells	Monitoring		12-Jun-17			6.71	Untested	123.28
7290230	21.34	Observation	Monitoring	18.29	06-Jun-17					
7290231	10.67	Observation	Monitoring	4.57	24-Jun-17			4.57		92.74
7302885	9.14	Observation Wells	Monitoring		17-Nov-17					
7307445	2.44	Monitoring and Test Hole	Test Hole		26-Jan-18					
7322653	43.34	Water Supply	Domestic	10.09	18-Oct-18			27.43	Untested	
7333847	4.57	Monitoring and Test Hole	Monitoring and Test Hole		18-Mar-19					
7333848	4.57	Monitoring and Test Hole	Monitoring and Test Hole		18-Mar-19					
7333849	4.57	Monitoring and Test Hole	Monitoring and Test Hole		18-Mar-19					
7338941	16.98	Water Supply	Domestic	12.59	01-Jul-19			13.72	FRESH	
7339334	12.19	Observation	Monitoring		05-Jun-19					
7339335	11.58	Observation	Monitoring		05-Jun-19					

MECP Water Well Records

Well Record

2800278	Lot 007	Conc 01	BURLINGTON CITY / HALTON				Flowing? N				
Date 5/10/1959	Elev 116.3 (masl)	Easting 592033	Northing 4795834	UTM RC 5	margin of error : 100 m - 300 m	SWL 11.6 (mbgs)	104.7 (masl)				
DD/MM/YYYY	/ Domestic	Water Supply				Pumping WL 18.9 (mbgs)	97.4 (masl)				
Water Found 18.9 (mbgs)	97.4 (masl)	FRESH				Pump Rate 0.0 (LPM)	4 / 0				
Casing Diameter 6 inch	Casing Material: STEEL	Depth (m) 0.0	Elev (masl) 116.3	Color		Spec. Cap. 0.00 (LPM/m)	Hour / Minute				
Top of Screen (mbgs)	Bottom of Screen (mbgs)										
Screen Interva (m)											
		7.3	109.0	BLUE		CLAY /	/				
		18.9	97.4	RED		SHALE /	/				

2800280	Lot 007	Conc 01	BURLINGTON CITY / HALTON				Flowing? N				
Date 11/30/1962	Elev 115.3 (masl)	Easting 592020	Northing 4795906	UTM RC 5	margin of error : 100 m - 300 m	SWL 9.1 (mbgs)	106.2 (masl)				
DD/MM/YYYY	/ Domestic	Water Supply				Pumping WL 19.8 (mbgs)	95.5 (masl)				
Water Found 17.1 (mbgs)	98.3 (masl)	FRESH				Pump Rate 4.5 (LPM)	2 / 0				
Casing Diameter 6 inch	Casing Material: STEEL	Depth (m) 0.0	Elev (masl) 115.3	Color		Spec. Cap. 0.43 (LPM/m)	Hour / Minute				
Top of Screen (mbgs)	Bottom of Screen (mbgs)										
Screen Interva (m)											
		6.7	108.6			TOPSOIL /	MEDIUM SAND /				
		9.1	106.2			SHALE /	/				
		19.8	95.5	RED		SHALE /	/				

2800284	Lot 008	Conc 01	BURLINGTON CITY / HALTON				Flowing? N				
Date 2/25/1957	Elev 109.2 (masl)	Easting 592100	Northing 4795753	UTM RC 4	margin of error : 30 m - 100 m	SWL 9.1 (mbgs)	100.0 (masl)				
DD/MM/YYYY	/ Domestic	Water Supply				Pumping WL 19.8 (mbgs)	89.4 (masl)				
Water Found 18.3 (mbgs)	90.9 (masl)	FRESH				Pump Rate 0.0 (LPM)	/				
Casing Diameter 6 inch	Casing Material: STEEL	Depth (m) 0.0	Elev (masl) 109.2	Color		Spec. Cap. 0.00 (LPM/m)	Hour / Minute				
Top of Screen (mbgs)	Bottom of Screen (mbgs)										
Screen Interva (m)											
		6.1	103.1			CLAY /	/				
		19.8	89.4	RED		SHALE /	/				

2800288	Lot 009	Conc 01	BURLINGTON CITY / HALTON				Flowing? N				
Date 7/7/1950	Elev 97.1 (masl)	Easting 591586	Northing 4795600	UTM RC 9	unknown UTM	SWL 6.1 (mbgs)	91.0 (masl)				
DD/MM/YYYY	/ Domestic	Water Supply				Pumping WL 17.4 (mbgs)	79.7 (masl)				
Water Found 16.5 (mbgs)	80.6 (masl)	FRESH				Pump Rate (LPM)	1 / 0				
Casing Diameter 6 inch	Casing Material: STEEL	Depth (m) 0.0	Elev (masl) 97.1	Color		Spec. Cap. (LPM/m)	Hour / Minute				
Top of Screen (mbgs)	Bottom of Screen (mbgs)										
Screen Interva (m)											
		0.6	96.5			TOPSOIL /	MEDIUM SAND /				
		3.7	93.4	BROWN		CLAY /	STONES /				
		7.6	89.5			MEDIUM SAND /	GRAVEL /				
		11.6	85.5	RED		CLAY /	MEDIUM SAND /				
		12.2	84.9	RED		CLAY /	STONES /				
		17.4	79.7	RED		SHALE /	/				

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2800289		Lot 009 Conc 01		BURLINGTON CITY / HALTON				Flowing? N			
Date	2/17/1959	Elev	99.0 (masl)	Easting	591644	Northing	4795578	SWL	2.4	(mbgs)	96.5 (masl)
DD/MM/YYYY		/ Domestic		Water Supply		UTM RC 5		margin of error : 100 m - 300 m			
		Water Found	7.9 (mbgs)	91.0 (masl)		FRESH		Pumping WL	6.1	(mbgs)	92.9 (masl)
		Casing Diameter	6 inch	Casing Material: STEEL		Depth (m)	Elev (masl)	Pump Rate	36.4	(LPM)	0 / 30
		Top of Screen	(mbgs)	Bottom of Screen		0.0	99.0	Spec. Cap.	9.94	(LPM/m)	Hour / Minute
		Screen Interva	(m)					Soil Descriptions			
						2.4	96.5	CLAY /		/	
						8.8	90.1	RED SHALE /		/	

2800290		Lot 009 Conc 01		BURLINGTON CITY / HALTON				Flowing? N			
Date	2/19/1959	Elev	97.1 (masl)	Easting	591624	Northing	4795565	SWL	2.4	(mbgs)	94.6 (masl)
DD/MM/YYYY		/ Domestic		Water Supply		UTM RC 5		margin of error : 100 m - 300 m			
		Water Found	8.2 (mbgs)	88.9 (masl)		FRESH		Pumping WL	4.6	(mbgs)	92.5 (masl)
		Casing Diameter	6 inch	Casing Material: STEEL		Depth (m)	Elev (masl)	Pump Rate	54.6	(LPM)	0 / 30
		Top of Screen	(mbgs)	Bottom of Screen		0.0	97.1	Spec. Cap.	25.57	(LPM/m)	Hour / Minute
		Screen Interva	(m)					Soil Descriptions			
						2.4	94.6	CLAY /		/	
						9.1	87.9	RED SHALE /		/	

2800291		Lot 009 Conc 01		BURLINGTON CITY / HALTON				Flowing? N			
Date	7/8/1959	Elev	98.1 (masl)	Easting	591541	Northing	4795622	SWL	2.4	(mbgs)	95.7 (masl)
DD/MM/YYYY		/ Domestic		Water Supply		UTM RC 5		margin of error : 100 m - 300 m			
		Water Found	7.6 (mbgs)	90.5 (masl)		FRESH		Pumping WL	4.6	(mbgs)	93.5 (masl)
		Casing Diameter	6 inch	Casing Material: STEEL		Depth (m)	Elev (masl)	Pump Rate	36.4	(LPM)	0 / 30
		Top of Screen	(mbgs)	Bottom of Screen		0.0	98.1	Spec. Cap.	17.05	(LPM/m)	Hour / Minute
		Screen Interva	(m)					Soil Descriptions			
						2.4	95.7	RED CLAY /		/	
						9.1	89.0	RED SHALE /		/	

2800293		Lot 009 Conc 01		BURLINGTON CITY / HALTON				Flowing? N			
Date	5/5/1960	Elev	100.2 (masl)	Easting	591443	Northing	4795655	SWL	1.2	(mbgs)	99.0 (masl)
DD/MM/YYYY		/ Domestic		Water Supply		UTM RC 5		margin of error : 100 m - 300 m			
		Water Found	7.9 (mbgs)	92.3 (masl)		FRESH		Pumping WL	4.6	(mbgs)	95.6 (masl)
		Casing Diameter	6 inch	Casing Material: STEEL		Depth (m)	Elev (masl)	Pump Rate	45.5	(LPM)	/
		Top of Screen	(mbgs)	Bottom of Screen		0.0	100.2	Spec. Cap.	13.56	(LPM/m)	Hour / Minute
		Screen Interva	(m)					Soil Descriptions			
						1.5	98.7	BROWN CLAY /		/	
						2.4	97.7	RED CLAY /		/	
						8.5	91.7	RED SHALE /		/	

2800294		Lot 009 Conc 01		BURLINGTON CITY / HALTON				Flowing? N			
Date	3/27/1967	Elev	98.3 (masl)	Easting	591677	Northing	4795563	SWL	2.7	(mbgs)	95.5 (masl)
DD/MM/YYYY		/ Domestic		Water Supply		UTM RC 5		margin of error : 100 m - 300 m			
		Water Found	7.6 (mbgs)	90.7 (masl)		FRESH		Pumping WL	8.2	(mbgs)	90.1 (masl)
		Casing Diameter	inch	Casing Material:		Depth (m)	Elev (masl)	Pump Rate	4.5	(LPM)	2 / 0
		Top of Screen	(mbgs)	Bottom of Screen		0.0	98.3	Spec. Cap.	0.83	(LPM/m)	Hour / Minute
		Screen Interva	(m)					Soil Descriptions			

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		3.4	94.9	PREVIOUSLY DUG /		/
		11.6	86.7	RED	SHALE /	/
2800295	Lot 010 Conc 01	BURLINGTON CITY / HALTON				Flowing? N
Date 2/26/1950	Elev 102.3 (masl)	Easting 591530	Northing 4794818	SWL 15.2	(mbgs)	87.1 (masl)
DD/MM/YYYY	/ Domestic	Water Supply	UTM RC 9 unknown UTM	Pumping WL 18.3	(mbgs)	84.1 (masl)
Water Found 21.3 (mbgs)	81.0 (masl)	FRESH		Pump Rate 4.5	(LPM)	2 / 0
				Spec. Cap. 1.49	(LPM/m)	Hour / Minute
Casing Diameter 6 inch	Casing Material: STEEL	Depth (m) 0.0	Elev (masl) 102.3	Color	Soil Descriptions	
Top of Screen (mbgs)	Bottom of Screen (mbgs)					
Screen Interva (m)						
		9.8	92.6	BLUE	CLAY /	/
		22.9	79.5	RED	SHALE /	/
2800297	Lot 012 Conc 01	BURLINGTON CITY / HALTON				Flowing? N
Date 9/18/1953	Elev 92.9 (masl)	Easting 590678	Northing 4794233	SWL 3.0	(mbgs)	89.8 (masl)
DD/MM/YYYY	/ Domestic	Water Supply	UTM RC 9 unknown UTM	Pumping WL 3.7	(mbgs)	89.2 (masl)
Water Found (mbgs)	(masl)			Pump Rate 50.0	(LPM)	1 / 0
				Spec. Cap. 82.03	(LPM/m)	Hour / Minute
Casing Diameter 6 inch	Casing Material: STEEL	Depth (m) 0.0	Elev (masl) 92.9	Color	Soil Descriptions	
Top of Screen (mbgs)	Bottom of Screen (mbgs)					
Screen Interva (m)						
		0.3	92.6		TOPSOIL /	/
		1.8	91.0	YELLOW	CLAY /	/
		10.7	82.2		LIMESTONE /	/
2800298	Lot 012 Conc 01	BURLINGTON CITY / HALTON				Flowing? N
Date 9/1/1961	Elev 100.3 (masl)	Easting 590600	Northing 4794203	SWL 13.1	(mbgs)	87.2 (masl)
DD/MM/YYYY	/ Commerical	Water Supply	UTM RC 4 margin of error : 30 m - 100 m	Pumping WL 24.4	(mbgs)	76.0 (masl)
Water Found 11.6 (mbgs)	88.8 (masl)	FRESH		Pump Rate 9.1	(LPM)	0 / 40
				Spec. Cap. 0.81	(LPM/m)	Hour / Minute
Casing Diameter 6 inch	Casing Material: STEEL	Depth (m) 0.0	Elev (masl) 100.3	Color	Soil Descriptions	
Top of Screen (mbgs)	Bottom of Screen (mbgs)					
Screen Interva (m)						
		1.2	99.1	RED	TOPSOIL /	MEDIUM SAND /
		6.1	94.2	RED	CLAY /	MEDIUM SAND /
		27.4	72.9	RED	SHALE /	/
2800299	Lot 013 Conc 01	BURLINGTON CITY / HALTON				Flowing? N
Date 8/17/1961	Elev 99.4 (masl)	Easting 590265	Northing 4793953	SWL 12.5	(mbgs)	86.9 (masl)
DD/MM/YYYY	/ Commerical	Water Supply	UTM RC 5 margin of error : 100 m - 300 m	Pumping WL 28.0	(mbgs)	71.3 (masl)
Water Found 26.2 (mbgs)	73.2 (masl)	FRESH		Pump Rate 13.6	(LPM)	2 / 0
				Spec. Cap. 0.88	(LPM/m)	Hour / Minute
Casing Diameter 8 inch	Casing Material: STEEL	Depth (m) 0.0	Elev (masl) 99.4	Color	Soil Descriptions	
Top of Screen (mbgs)	Bottom of Screen (mbgs)					
Screen Interva (m)						
		1.5	97.8		TOPSOIL /	MEDIUM SAND / STONES
		4.0	95.4		GRAVEL /	MEDIUM SAND / STONES
		5.5	93.9	GREY	CLAY /	HARDPAN / STONES
		6.4	93.0	RED	CLAY /	/
		28.0	71.3	RED	SHALE /	/

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2800300	Lot 013 Conc 01	BURLINGTON CITY / HALTON				Flowing? N			
Date 5/17/1952	Elev 125.5 (masl)	Easting 589540	Northing 4794383	UTM RC 4	margin of error : 30 m - 100 m	SWL 6.1	(mbgs)	119.4	(masl)
DD/MM/YYYY	/ Domestic	Water Supply				Pumping WL	(mbgs)		(masl)
Water Found 10.1 (mbgs)	115.5 (masl)	FRESH				Pump Rate 4.5	(LPM)	/	
Casing Diameter 6 inch	Casing Material: STEEL	Depth (m) 0.0	Elev (masl) 125.5	Color		Spec. Cap.	(LPM/m)	Hour / Minute	
Top of Screen (mbgs)	Bottom of Screen (mbgs)								Soil Descriptions
Screen Interva (m)									
		6.1	119.4	RED			CLAY /	/	
		10.7	114.9	RED			SHALE /	/	

2800301	Lot 013 Conc 01	BURLINGTON CITY / HALTON				Flowing? N			
Date 5/7/1953	Elev 123.4 (masl)	Easting 589925	Northing 4794328	UTM RC 5	margin of error : 100 m - 300 m	SWL 7.3	(mbgs)	116.1	(masl)
DD/MM/YYYY	/ Domestic	Water Supply				Pumping WL 10.7	(mbgs)	112.7	(masl)
Water Found 14.9 (mbgs)	108.4 (masl)	FRESH				Pump Rate 13.6	(LPM)	/	
Casing Diameter 6 inch	Casing Material: STEEL	Depth (m) 0.0	Elev (masl) 123.4	Color		Spec. Cap. 4.07	(LPM/m)	Hour / Minute	
Top of Screen (mbgs)	Bottom of Screen (mbgs)								Soil Descriptions
Screen Interva (m)									
		0.3	123.1				TOPSOIL /	/	
		10.1	113.3	YELLOW			CLAY /	/	
		15.2	108.1				LIMESTONE /	/	

2800302	Lot 013 Conc 01	BURLINGTON CITY / HALTON				Flowing? N			
Date 11/8/1956	Elev 120.2 (masl)	Easting 589955	Northing 4794313	UTM RC 5	margin of error : 100 m - 300 m	SWL 7.3	(mbgs)	112.8	(masl)
DD/MM/YYYY	/ Domestic	Water Supply				Pumping WL 18.3	(mbgs)	101.9	(masl)
Water Found 14.6 (mbgs)	105.5 (masl)	FRESH				Pump Rate 9.1	(LPM)	1 / 0	
Casing Diameter 6 inch	Casing Material: STEEL	Depth (m) 0.0	Elev (masl) 120.2	Color		Spec. Cap. 0.83	(LPM/m)	Hour / Minute	
Top of Screen (mbgs)	Bottom of Screen (mbgs)								Soil Descriptions
Screen Interva (m)									
		7.9	112.2				PREVIOUSLY DUG /	/	
		18.3	101.9	RED			SHALE /	/	

2800303	Lot 013 Conc 01	BURLINGTON CITY / HALTON				Flowing? N			
Date 4/25/1957	Elev 129.8 (masl)	Easting 589695	Northing 4794548	UTM RC 4	margin of error : 30 m - 100 m	SWL 3.0	(mbgs)	126.8	(masl)
DD/MM/YYYY	/ Domestic	Water Supply				Pumping WL 10.7	(mbgs)	119.2	(masl)
Water Found 10.7 (mbgs)	119.2 (masl)	FRESH				Pump Rate 13.6	(LPM)	/	
Casing Diameter 6 inch	Casing Material: STEEL	Depth (m) 0.0	Elev (masl) 129.8	Color		Spec. Cap. 1.79	(LPM/m)	Hour / Minute	
Top of Screen (mbgs)	Bottom of Screen (mbgs)								Soil Descriptions
Screen Interva (m)									
		4.3	125.6				CLAY /	/	
		10.7	119.2	RED			SHALE /	/	

2800304	Lot 013 Conc 01	BURLINGTON CITY / HALTON				Flowing? N			
Date 5/14/1957	Elev 130.0 (masl)	Easting 589740	Northing 4794528	UTM RC 5	margin of error : 100 m - 300 m	SWL 3.0	(mbgs)	126.9	(masl)
DD/MM/YYYY	/ Domestic	Water Supply				Pumping WL 13.7	(mbgs)	116.3	(masl)
Water Found 13.7 (mbgs)	116.3 (masl)	FRESH				Pump Rate 0.0	(LPM)	/	
Casing Diameter 6 inch	Casing Material: STEEL	Depth (m) 0.0	Elev (masl) 130.0	Color		Spec. Cap. 0.00	(LPM/m)	Hour / Minute	
Top of Screen (mbgs)	Bottom of Screen (mbgs)								Soil Descriptions
Screen Interva (m)									

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					4.6	125.4			CLAY /	/
					13.7	116.3	RED		SHALE /	/
2800305	Lot 013	Conc 01	BURLINGTON CITY / HALTON						Flowing? N	
Date 6/18/1959	Elev 129.1 (masl)	Easting 589705	Northing 4794488	UTM RC 4	margin of error : 30 m - 100 m	SWL 6.1 (mbgs)	123.0 (masl)			
DD/MM/YYYY	/ Domestic	Water Supply				Pumping WL 18.3 (mbgs)	110.8 (masl)			
Water Found 10.7 (mbgs)	118.4 (masl)	FRESH				Pump Rate 4.5 (LPM)	1 / 0			
						Spec. Cap. 0.37 (LPM/m)	Hour / Minute			
Casing Diameter 6 inch	Casing Material: STEEL	Depth (m) 0.0	Elev (masl) 129.1	Color		Soil Descriptions				
Top of Screen (mbgs)	Bottom of Screen (mbgs)									
Screen Interva (m)										
		0.3	128.8			TOPSOIL /	/			
		1.2	127.8	BROWN		CLAY /	/			
		18.3	110.8	RED		SHALE /	/			
2800306	Lot 013	Conc 01	BURLINGTON CITY / HALTON						Flowing? N	
Date 7/21/1959	Elev 123.8 (masl)	Easting 589715	Northing 4794363	UTM RC 4	margin of error : 30 m - 100 m	SWL 6.1 (mbgs)	117.7 (masl)			
DD/MM/YYYY	/ Domestic	Water Supply				Pumping WL 24.4 (mbgs)	99.4 (masl)			
Water Found 9.8 (mbgs)	114.1 (masl)	FRESH				Pump Rate 4.5 (LPM)	1 / 0			
						Spec. Cap. 0.25 (LPM/m)	Hour / Minute			
Casing Diameter 8 inch	Casing Material: STEEL	Depth (m) 0.0	Elev (masl) 123.8	Color		Soil Descriptions				
Top of Screen (mbgs)	Bottom of Screen (mbgs)									
Screen Interva (m)										
		1.8	122.0	BROWN		CLAY /	/			
		24.4	99.4	RED		SHALE /	/			
2800307	Lot 013	Conc 01	BURLINGTON CITY / HALTON						Flowing? N	
Date 3/31/1962	Elev 130.1 (masl)	Easting 589665	Northing 4794523	UTM RC 4	margin of error : 30 m - 100 m	SWL 10.7 (mbgs)	119.4 (masl)			
DD/MM/YYYY	/ Domestic	Water Supply				Pumping WL 15.2 (mbgs)	114.9 (masl)			
Water Found 21.0 (mbgs)	109.1 (masl)	FRESH				Pump Rate 81.8 (LPM)	1 / 0			
						Spec. Cap. 17.90 (LPM/m)	Hour / Minute			
Casing Diameter 6 inch	Casing Material: STEEL	Depth (m) 0.0	Elev (masl) 130.1	Color		Soil Descriptions				
Top of Screen (mbgs)	Bottom of Screen (mbgs)									
Screen Interva (m)										
		1.8	128.3	BROWN		CLAY /	/			
		20.1	110.0	BLUE		CLAY /	/			
		21.3	108.8			LIMESTONE /	/			
2800308	Lot 013	Conc 01	BURLINGTON CITY / HALTON						Flowing? N	
Date 6/17/1966	Elev 125.0 (masl)	Easting 589775	Northing 4794373	UTM RC 5	margin of error : 100 m - 300 m	SWL 4.6 (mbgs)	120.4 (masl)			
DD/MM/YYYY	Domestic / Commerical	Water Supply				Pumping WL 12.2 (mbgs)	112.8 (masl)			
Water Found 11.6 (mbgs)	113.4 (masl)	FRESH				Pump Rate 9.1 (LPM)	1 / 0			
						Spec. Cap. 1.19 (LPM/m)	Hour / Minute			
Casing Diameter 6 inch	Casing Material: STEEL	Depth (m) 0.0	Elev (masl) 125.0	Color		Soil Descriptions				
Top of Screen (mbgs)	Bottom of Screen (mbgs)									
Screen Interva (m)										
		2.4	122.5	BROWN		CLAY /	/			
		6.7	118.3	BLUE		CLAY /	/			
		12.2	112.8	RED		SHALE /	/			

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2800352		Lot 013	Conc 02	BURLINGTON CITY / HALTON				Flowing? N			
Date	5/20/1952	Elev	128.3 (masl)	Easting	589530	Northing	4794443	SWL	7.6	(mbgs)	120.7 (masl)
DD/MM/YYYY		/ Domestic		Water Supply		UTM RC 9 unknown UTM		Pumping WL		(mbgs)	(masl)
Water Found		14.6 (mbgs)	113.7 (masl)	FRESH				Pump Rate	4.5	(LPM)	/
Casing Diameter		6 inch	Casing Material:	STEEL	Depth (m)	Elev (masl)		Spec. Cap.		(LPM/m)	Hour / Minute
Top of Screen		(mbgs)	Bottom of Screen	(mbgs)	0.0	128.3	Color	Soil Descriptions			
Screen Interva		(m)			9.4	118.9		CLAY /		/	
					15.2	113.1	RED	SHALE /		/	
2800353		Lot 013	Conc 02	BURLINGTON CITY / HALTON				Flowing? N			
Date	7/10/1956	Elev	218.3 (masl)	Easting	588298	Northing	4795687	SWL	4.3	(mbgs)	214.1 (masl)
DD/MM/YYYY		/ Domestic		Water Supply		UTM RC 9 unknown UTM		Pumping WL	33.5	(mbgs)	184.8 (masl)
Water Found		11.0 (mbgs)	207.4 (masl)	SALTY				Pump Rate	9.1	(LPM)	2 / 0
Casing Diameter		6 inch	Casing Material:	STEEL	Depth (m)	Elev (masl)		Spec. Cap.	0.31	(LPM/m)	Hour / Minute
Top of Screen		(mbgs)	Bottom of Screen	(mbgs)	0.0	218.3	Color	Soil Descriptions			
Screen Interva		(m)			5.5	212.9	BLUE	CLAY /	STONES	/	
					7.0	211.3	BLUE	CLAY /		/	
					7.6	210.7	RED	CLAY /		/	
					35.1	183.3	RED	SHALE /		/	
2800354		Lot 013	Conc 02	BURLINGTON CITY / HALTON				Flowing? N			
Date	10/15/1958	Elev	154.0 (masl)	Easting	588994	Northing	4795244	SWL	11.0	(mbgs)	143.0 (masl)
DD/MM/YYYY		/ Domestic		Water Supply		UTM RC 9 unknown UTM		Pumping WL	27.4	(mbgs)	126.6 (masl)
Water Found		32.0 (mbgs)	122.0 (masl)	SALTY				Pump Rate	13.6	(LPM)	1 / 0
Casing Diameter		6 inch	Casing Material:	STEEL	Depth (m)	Elev (masl)		Spec. Cap.	0.83	(LPM/m)	Hour / Minute
Top of Screen		(mbgs)	Bottom of Screen	(mbgs)	0.0	154.0	Color	Soil Descriptions			
Screen Interva		(m)			10.7	143.3	BROWN	CLAY /	STONES	/	
					15.8	138.2	BLUE	CLAY /	STONES	/	
					20.1	133.9	RED	CLAY /	STONES	/	
					32.3	121.7	RED	SHALE /		/	
2800355		Lot 013	Conc 02	BURLINGTON CITY / HALTON				Flowing? N			
Date	10/30/1958	Elev	154.0 (masl)	Easting	589014	Northing	4795267	SWL	11.0	(mbgs)	143.0 (masl)
DD/MM/YYYY		/ Domestic		Water Supply		UTM RC 9 unknown UTM		Pumping WL	22.9	(mbgs)	131.1 (masl)
Water Found		26.5 (mbgs)	127.4 (masl)	SALTY				Pump Rate	13.6	(LPM)	1 / 0
Casing Diameter		6 inch	Casing Material:	STEEL	Depth (m)	Elev (masl)		Spec. Cap.	1.15	(LPM/m)	Hour / Minute
Top of Screen		(mbgs)	Bottom of Screen	(mbgs)	0.0	154.0	Color	Soil Descriptions			
Screen Interva		(m)			10.1	143.9	BROWN	CLAY /	STONES	/	
					15.2	138.7	BLUE	CLAY /	STONES	/	
					18.6	135.4	RED	CLAY /	STONES	/	
					27.1	126.8	RED	SHALE /		/	

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2800356		Lot 013	Conc 02	BURLINGTON CITY / HALTON						Flowing? N			
Date	11/20/1959	Elev	165.5 (masl)	Easting	588734	Northing	4795435	SWL	3.0	(mbgs)	162.4	(masl)	
DD/MM/YYYY		/ Domestic		Water Supply		UTM RC 5		Pumping WL	22.9	(mbgs)	142.6	(masl)	
		Water Found	22.9 (mbgs)	142.6 (masl)	FRESH		margin of error : 100 m - 300 m		Pump Rate	0.0	(LPM)	48 / 0	
		Casing Diameter	6 inch	Casing Material:	STEEL	Depth (m)	Elev (masl)	Spec. Cap.	0.00	(LPM/m)	Hour / Minute		
		Top of Screen	(mbgs)	Bottom of Screen	(mbgs)	0.0	165.5	Color	Soil Descriptions				
		Screen Interva	(m)										
						3.0	162.4	BLUE	CLAY /	/			
						13.4	152.1	RED	CLAY /	/			
						22.9	142.6	RED	SHALE /	/			

2800357		Lot 013	Conc 02	BURLINGTON CITY / HALTON						Flowing? N			
Date	6/19/1962	Elev	130.2 (masl)	Easting	589604	Northing	4794509	SWL	4.3	(mbgs)	126.0	(masl)	
DD/MM/YYYY		/ Domestic		Water Supply		UTM RC 5		Pumping WL		(mbgs)	(masl)		
		Water Found	10.1 (mbgs)	120.2 (masl)	FRESH		margin of error : 100 m - 300 m		Pump Rate	4.5	(LPM)	/	
		Casing Diameter	30 inch	Casing Material:	CONCRETE	Depth (m)	Elev (masl)	Spec. Cap.		(LPM/m)	Hour / Minute		
		Top of Screen	(mbgs)	Bottom of Screen	(mbgs)	0.0	130.2	Color	Soil Descriptions				
		Screen Interva	(m)										
						3.0	127.2	RED	TOPSOIL /	/			
						10.1	120.2	RED	SHALE /	/			

2803483		Lot 012	Conc 01	BURLINGTON CITY / HALTON						Flowing? N			
Date	12/2/1970	Elev	125.6 (masl)	Easting	590515	Northing	4794823	SWL	5.2	(mbgs)	120.4	(masl)	
DD/MM/YYYY		/ Domestic		Water Supply		UTM RC 4		Pumping WL	11.6	(mbgs)	114.0	(masl)	
		Water Found	7.9 (mbgs)	117.6 (masl)	FRESH		margin of error : 30 m - 100 m		Pump Rate	9.1	(LPM)	2 / 0	
		Casing Diameter	6 inch	Casing Material:	STEEL	Depth (m)	Elev (masl)	Spec. Cap.	1.42	(LPM/m)	Hour / Minute		
		Top of Screen	(mbgs)	Bottom of Screen	(mbgs)	0.0	125.6	Color	Soil Descriptions				
		Screen Interva	(m)										
						2.4	123.1	BROWN	CLAY /	/			
						4.9	120.7	RED	CLAY /	/			
						12.2	113.4	RED	SHALE /	/			

2803528		Lot 010	Conc 01	BURLINGTON CITY / HALTON						Flowing?			
Date	11/28/1970	Elev	108.3 (masl)	Easting	591235	Northing	4794933	SWL		(mbgs)		(masl)	
DD/MM/YYYY		/ Not Used		Abandoned-Quality		UTM RC 4		Pumping WL		(mbgs)	(masl)		
		Water Found	13.1 (mbgs)	95.2 (masl)	SALTY		margin of error : 30 m - 100 m		Pump Rate		(LPM)	/	
		Casing Diameter	30 inch	Casing Material:		Depth (m)	Elev (masl)	Spec. Cap.		(LPM/m)	Hour / Minute		
		Top of Screen	(mbgs)	Bottom of Screen	(mbgs)	0.0	108.3	Color	Soil Descriptions				
		Screen Interva	(m)										
						0.3	108.0	BROWN	TOPSOIL /	/			
						3.4	105.0	BROWN	CLAY /	/			
						4.3	104.1	RED	CLAY /	STONES	/		
						13.7	94.6	RED	SHALE /	/			

Well Record #

2803632	Lot 010 Conc 01	BURLINGTON CITY / HALTON				Flowing? N			
Date 1/12/1971	Elev 120.5 (masl)	Easting 591077	Northing 4795023	UTM RC 4	margin of error : 30 m - 100 m	SWL 1.8	(mbgs)	118.7	(masl)
DD/MM/YYYY	/ Domestic	Water Supply				Pumping WL 8.5	(mbgs)	112.0	(masl)
Water Found 5.5 (mbgs)	115.0 (masl)	FRESH				Pump Rate 9.1	(LPM)	1	/ 0
Casing Diameter 30 inch	Casing Material: CONCRETE	Depth (m) 0.0	Elev (masl) 120.5	Color		Spec. Cap. 1.36	(LPM/m)	Hour / Minute	
Top of Screen (mbgs)	Bottom of Screen (mbgs)								Soil Descriptions
Screen Interva (m)									
		0.3	120.2	BROWN	TOPSOIL /			/	
		2.4	118.1	BROWN	CLAY /			/	
		8.5	112.0	RED	SHALE /			/	

2803732	Lot 009 Conc 01	BURLINGTON CITY / HALTON				Flowing? N			
Date 6/30/1971	Elev 124.7 (masl)	Easting 591475	Northing 4795703	UTM RC 4	margin of error : 30 m - 100 m	SWL 1.8	(mbgs)	122.9	(masl)
DD/MM/YYYY	/ Domestic	Water Supply				Pumping WL 7.3	(mbgs)	117.4	(masl)
Water Found 3.4 (mbgs)	121.4 (masl)	FRESH				Pump Rate	(LPM)	/	
Casing Diameter 30 inch	Casing Material: CONCRETE	Depth (m) 0.0	Elev (masl) 124.7	Color		Spec. Cap.	(LPM/m)	Hour / Minute	
Top of Screen (mbgs)	Bottom of Screen (mbgs)								Soil Descriptions
Screen Interva (m)									
		0.3	124.4	BROWN	TOPSOIL /			/	
		3.4	121.4	BROWN	MEDIUM SAND /			/	
		5.5	119.2	BLUE	CLAY /			/	
		7.3	117.4	RED	CLAY /			/	

2803743	Lot 009 Conc 01	BURLINGTON CITY / HALTON				Flowing?			
Date 6/29/1971	Elev 130.3 (masl)	Easting 591305	Northing 4795613	UTM RC 4	margin of error : 30 m - 100 m	SWL	(mbgs)	(masl)	
DD/MM/YYYY	/	Abandoned-Supply				Pumping WL	(mbgs)	(masl)	
Water Found (mbgs)	(masl)					Pump Rate	(LPM)	/	
Casing Diameter	Casing Material:	Depth (m) 0.0	Elev (masl) 130.3	Color		Spec. Cap.	(LPM/m)	Hour / Minute	
Top of Screen (mbgs)	Bottom of Screen (mbgs)								Soil Descriptions
Screen Interva (m)									
		0.3	130.0	BROWN	TOPSOIL /			/	
		2.7	127.6	BROWN	MEDIUM SAND /			/	
		7.0	123.3	BLUE	CLAY /			/	
		10.1	120.3	RED	CLAY /			/	
		10.7	119.7	RED	SHALE /			/	

2803744	Lot 009 Conc 01	BURLINGTON CITY / HALTON				Flowing? N			
Date 11/20/1971	Elev 131.9 (masl)	Easting 591305	Northing 4795593	UTM RC 4	margin of error : 30 m - 100 m	SWL 5.2	(mbgs)	126.7	(masl)
DD/MM/YYYY	/ Domestic	Water Supply				Pumping WL 9.4	(mbgs)	122.4	(masl)
Water Found 5.2 (mbgs)	126.7 (masl)	FRESH				Pump Rate	(LPM)	/	
Casing Diameter 30 inch	Casing Material: CONCRETE	Depth (m) 0.0	Elev (masl) 131.9	Color		Spec. Cap.	(LPM/m)	Hour / Minute	
Top of Screen (mbgs)	Bottom of Screen (mbgs)								Soil Descriptions
Screen Interva (m)									
		0.3	131.6	BROWN	TOPSOIL /			/	
		1.2	130.6	BROWN	MEDIUM SAND /			GRAVEL	/
		5.2	126.7	BROWN	MEDIUM SAND /			/	
		5.5	126.4	BLACK	GRAVEL /			/	
		9.4	122.4	BLUE	CLAY /			/	

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2803759	Lot 009	Conc 01	BURLINGTON CITY / HALTON				Flowing? N			
Date 8/19/1971	Elev 125.4 (masl)	Easting 591453	Northing 4795483	UTM RC 4	margin of error : 30 m - 100 m	SWL 3.0	(mbgs)	122.4	(masl)	
DD/MM/YYYY	/ Domestic	Water Supply				Pumping WL 9.1	(mbgs)	116.3	(masl)	
Water Found 4.3 (mbgs)	121.2 (masl)	FRESH				Pump Rate	(LPM)	/		
Casing Diameter 30 inch	Casing Material: CONCRETE	Depth (m) 0.0	Elev (masl) 125.4	Color		Spec. Cap.	(LPM/m)	Hour / Minute		
Top of Screen (mbgs)	Bottom of Screen (mbgs)									
Screen Interva (m)										
		0.3	125.1	BROWN	TOPSOIL /			/		
		4.3	121.2	BROWN	MEDIUM SAND /			/		
		7.9	117.5	BLUE	CLAY /			/		
		9.1	116.3	RED	CLAY /		STONES	/		

2803815	Lot 013	Conc 02	BURLINGTON CITY / HALTON				Flowing?			
Date 10/6/1971	Elev 218.0 (masl)	Easting 588394	Northing 4795723	UTM RC 4	margin of error : 30 m - 100 m	SWL	(mbgs)	(masl)		
DD/MM/YYYY	/	Abandoned-Supply				Pumping WL	(mbgs)	(masl)		
Water Found (mbgs)	(masl)					Pump Rate	(LPM)	/		
Casing Diameter 6 inch	Casing Material: STEEL	Depth (m) 0.0	Elev (masl) 218.0	Color		Spec. Cap.	(LPM/m)	Hour / Minute		
Top of Screen (mbgs)	Bottom of Screen (mbgs)									
Screen Interva (m)										
		0.9	217.1		TOPSOIL /			/		
		11.6	206.4		SHALE /			/		
		14.6	203.4	RED	SHALE /			/		
		27.4	190.6	BLUE	SHALE /			/		

2804033	Lot 013	Conc 02	BURLINGTON CITY / HALTON				Flowing?			
Date 6/16/1972	Elev 215.4 (masl)	Easting 588424	Northing 4795763	UTM RC 4	margin of error : 30 m - 100 m	SWL	(mbgs)	(masl)		
DD/MM/YYYY	/	Abandoned-Supply				Pumping WL	(mbgs)	(masl)		
Water Found (mbgs)	(masl)					Pump Rate	(LPM)	/		
Casing Diameter 6 inch	Casing Material:	Depth (m) 0.0	Elev (masl) 215.4	Color		Spec. Cap.	(LPM/m)	Hour / Minute		
Top of Screen (mbgs)	Bottom of Screen (mbgs)									
Screen Interva (m)										
		1.2	214.2	BROWN	CLAY /			/		
		12.2	203.2		SHALE /			/		
		16.8	198.6	RED	SHALE /			/		
		25.6	189.8	BLUE	SHALE /			/		

2804034	Lot 013	Conc 02	BURLINGTON CITY / HALTON				Flowing? N			
Date 7/5/1972	Elev 219.8 (masl)	Easting 588374	Northing 4795743	UTM RC 4	margin of error : 30 m - 100 m	SWL 12.2	(mbgs)	207.6	(masl)	
DD/MM/YYYY	/ Domestic	Water Supply				Pumping WL 21.3	(mbgs)	198.4	(masl)	
Water Found 19.8 (mbgs)	200.0 (masl)	FRESH				Pump Rate 4.5	(LPM)	1 / 0		
Casing Diameter 8 inch	Casing Material: STEEL	Depth (m) 0.0	Elev (masl) 219.8	Color		Spec. Cap. 0.50	(LPM/m)	Hour / Minute		
Top of Screen (mbgs)	Bottom of Screen (mbgs)									
Screen Interva (m)										
		1.2	218.6	BROWN	CLAY /			/		
		12.2	207.6		SHALE /			/		
		18.3	201.5	RED	SHALE /			/		
		21.3	198.4	BLUE	SHALE /			/		

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2804035		Lot 013 Conc 02		BURLINGTON CITY / HALTON				Flowing? N			
Date	6/13/1972	Elev	218.4 (masl)	Easting	588394	Northing	4795743	SWL	8.8	(mbgs)	108.6 (masl)
DD/MM/YYYY		/ Domestic		Water Supply		UTM RC 4		Pumping WL	11.6	(mbgs)	105.8 (masl)
		Water Found	(mbgs)	Abandoned-Supply		margin of error : 30 m - 100 m		Pump Rate	(LPM)	/	
		Casing Diameter	6 inch	Casing Material:		Depth (m)	Elev (masl)	Spec. Cap.	(LPM/m)	Hour / Minute	
		Top of Screen	(mbgs)	Bottom of Screen		0.0	218.4	Color	Soil Descriptions		
		Screen Interva	(m)			0.9	217.5	BROWN	CLAY /	/	
						13.7	204.7		SHALE /	/	
						18.3	200.1	RED	SHALE /	/	
						28.7	189.7	BLUE	SHALE /	/	
2804082		Lot 009 Conc 01		BURLINGTON CITY / HALTON				Flowing? N			
Date	3/13/1973	Elev	117.4 (masl)	Easting	591375	Northing	4795603	SWL	8.8	(mbgs)	108.6 (masl)
DD/MM/YYYY		/ Domestic		Water Supply		UTM RC 4		Pumping WL	11.6	(mbgs)	105.8 (masl)
		Water Found	5.2 (mbgs)	112.2 (masl)		FRESH		Pump Rate	(LPM)	/	
		Casing Diameter	36 inch	Casing Material: CONCRETE		Depth (m)	Elev (masl)	Spec. Cap.	(LPM/m)	Hour / Minute	
		Top of Screen	(mbgs)	Bottom of Screen		0.0	117.4	Color	Soil Descriptions		
		Screen Interva	(m)			0.3	117.1	BLACK	TOPSOIL /	/	
						1.8	115.6	BROWN	TOPSOIL /	/	
						6.7	110.7	RED	FINE SAND /	STONES	/
						8.5	108.9	BLUE	CLAY /	/	
						8.8	108.6	GREY	SILT /	SAND	/
						10.7	106.7	BLUE	CLAY /	/	
						11.6	105.8	RED	SHALE /	/	
2804627		Lot 013 Conc 01		BURLINGTON CITY / HALTON				Flowing? N			
Date	11/18/1974	Elev	92.1 (masl)	Easting	590255	Northing	4793903	SWL	18.3	(mbgs)	73.8 (masl)
DD/MM/YYYY		/ Domestic		Water Supply		UTM RC 4		Pumping WL	30.5	(mbgs)	61.6 (masl)
		Water Found	29.3 (mbgs)	62.8 (masl)		FRESH		Pump Rate	9.1	(LPM)	3 / 0
		Casing Diameter	6 inch	Casing Material: STEEL		Depth (m)	Elev (masl)	Spec. Cap.	0.75	(LPM/m)	Hour / Minute
		Top of Screen	(mbgs)	Bottom of Screen		0.0	92.1	Color	Soil Descriptions		
		Screen Interva	(m)			0.3	91.8	BROWN	TOPSOIL /	/	
						4.6	87.5	RED	CLAY /	/	
						5.2	86.9	GREY	GRAVEL /	/	
						6.1	86.0	GREY	CLAY /	/	
						32.0	60.1	RED	SHALE /	/	
2804698		Lot 010 Conc 01		BURLINGTON CITY / HALTON				Flowing? N			
Date	2/20/1975	Elev	110.1 (masl)	Easting	591155	Northing	4794903	SWL	10.4	(mbgs)	99.7 (masl)
DD/MM/YYYY		/ Domestic		Water Supply		UTM RC 4		Pumping WL	18.0	(mbgs)	92.1 (masl)
		Water Found	17.4 (mbgs)	92.7 (masl)		FRESH		Pump Rate	4.5	(LPM)	2 / 15
		Casing Diameter	6 inch	Casing Material: STEEL		Depth (m)	Elev (masl)	Spec. Cap.	0.60	(LPM/m)	Hour / Minute
		Top of Screen	(mbgs)	Bottom of Screen		0.0	110.1	Color	Soil Descriptions		
		Screen Interva	(m)			1.8	108.3	BROWN	SAND /	CLAY	/
						6.1	104.0	BROWN	SAND /	/	

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				8.8	101.3	BLUE	CLAY /	/
				18.3	91.8	RED	SHALE /	/

2804968	Lot 009	Conc 01	BURLINGTON CITY / HALTON				Flowing? N			
Date 12/15/1976	Elev 125.0 (masl)	Easting 591595	Northing 4795443	UTM RC 4	margin of error : 30 m - 100 m	SWL 10.4	(mbgs)	114.6	(masl)	
DD/MM/YYYY	/ Domestic	Water Supply				Pumping WL 4.5	(mbgs)		(masl)	
Water Found 17.7 (mbgs)	107.3 (masl)	FRESH				Pump Rate 2 / 0	(LPM)			
						Spec. Cap. Hour / Minute	(LPM/m)			
Casing Diameter 6 inch	Casing Material: STEEL	Depth (m) 0.0	Elev (masl) 125.0	Color		Soil Descriptions				
Top of Screen (mbgs)	Bottom of Screen (mbgs)									
Screen Interva (m)										
						PREVIOUSLY DUG /		/		
						SHALE /	HARD	/		

2804975	Lot 013	Conc 01	BURLINGTON CITY / HALTON				Flowing? N			
Date 2/7/1977	Elev 99.7 (masl)	Easting 590155	Northing 4793983	UTM RC 4	margin of error : 30 m - 100 m	SWL 22.3	(mbgs)	77.5	(masl)	
DD/MM/YYYY	/ Commerical	Water Supply				Pumping WL 36.0	(mbgs)	63.7	(masl)	
Water Found 33.2 (mbgs)	66.5 (masl)	FRESH				Pump Rate 2 / 0	(LPM)			
						Spec. Cap. Hour / Minute	(LPM/m)			
Casing Diameter 6 inch	Casing Material: STEEL	Depth (m) 0.0	Elev (masl) 99.7	Color		Soil Descriptions				
Top of Screen (mbgs)	Bottom of Screen (mbgs)									
Screen Interva (m)										
						PREVIOUSLY DUG /		/		
						CLAY /	LOOSE	/		
						CLAY /	LOOSE	/		
						SHALE /	HARD	/		

2805036	Lot 013	Conc 02	BURLINGTON CITY / HALTON				Flowing? N			
Date 6/12/1974	Elev 215.7 (masl)	Easting 588475	Northing 4795869	UTM RC 4	margin of error : 30 m - 100 m	SWL 10.7	(mbgs)	205.0	(masl)	
DD/MM/YYYY	/ Domestic	Water Supply				Pumping WL 27.4	(mbgs)	188.3	(masl)	
Water Found 19.8 (mbgs)	195.9 (masl)	FRESH				Pump Rate 1 / 0	(LPM)			
						Spec. Cap. Hour / Minute	(LPM/m)			
Casing Diameter 6 inch	Casing Material: STEEL	Depth (m) 0.0	Elev (masl) 215.7	Color		Soil Descriptions				
Top of Screen (mbgs)	Bottom of Screen (mbgs)									
Screen Interva (m)										
						TOPSOIL /		/		
						LIMESTONE /	FRACTURED	/		
						LIMESTONE /		/		
						SHALE /		/		
						SHALE /		/		
						SHALE /	ROCK	/ LAYERED		

2805037	Lot 013	Conc 02	BURLINGTON CITY / HALTON				Flowing? N			
Date 6/12/1974	Elev 219.1 (masl)	Easting 588387	Northing 4795783	UTM RC 4	margin of error : 30 m - 100 m	SWL 22.6	(mbgs)	196.6	(masl)	
DD/MM/YYYY	/ Domestic	Water Supply				Pumping WL 30.5	(mbgs)	188.6	(masl)	
Water Found 27.4 (mbgs)	191.7 (masl)	FRESH				Pump Rate 1 / 0	(LPM)			
						Spec. Cap. Hour / Minute	(LPM/m)			
Casing Diameter 6 inch	Casing Material: STEEL	Depth (m) 0.0	Elev (masl) 219.1	Color		Soil Descriptions				
Top of Screen (mbgs)	Bottom of Screen (mbgs)									
Screen Interva (m)										
						TOPSOIL /		/		
						LIMESTONE /	FRACTURED	/		
						LIMESTONE /		/		
						SHALE /		/		

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					18.9	200.2	RED	SHALE /	/
					29.9	189.3	GREY	SHALE /	/
					30.5	188.6	RED	SHALE /	/

2805051		Lot 013	Conc 01	BURLINGTON CITY / HALTON				Flowing? N	
Date	5/19/1977	Elev	99.7 (masl)	Easting	590155	Northing	4793983	SWL	13.7 (mbgs) 86.0 (masl)
DD/MM/YYYY		/ Domestic	Water Supply	UTM RC	4	margin of error : 30 m - 100 m		Pumping WL	29.0 (mbgs) 70.7 (masl)
Water Found	29.3 (mbgs)	70.4 (masl)	FRESH					Pump Rate	4.5 (LPM) 2 / 0
Casing Diameter	6 inch	Casing Material:	STEEL	Depth (m)	Elev (masl)			Spec. Cap.	0.30 (LPM/m) Hour / Minute
Top of Screen	(mbgs)	Bottom of Screen	(mbgs)	0.0	99.7	Color		Soil Descriptions	
Screen Interva	(m)								
				0.3	99.4	BROWN	TOPSOIL /	LOOSE	/
				3.7	96.0	BROWN	CLAY /	SANDY	/ LOOSE
				5.5	94.2	BROWN	CLAY /	LOOSE	/
				8.5	91.2	RED	CLAY /	LOOSE	/
				30.5	69.2	RED	SHALE /	HARD	/

2805120		Lot 009	Conc 01	BURLINGTON CITY / HALTON				Flowing? N	
Date	9/14/1977	Elev	124.6 (masl)	Easting	591475	Northing	4795503	SWL	8.5 (mbgs) 116.1 (masl)
DD/MM/YYYY		/ Domestic	Water Supply	UTM RC	4	margin of error : 30 m - 100 m		Pumping WL	19.8 (mbgs) 104.8 (masl)
Water Found	12.8 (mbgs)	111.8 (masl)	FRESH					Pump Rate	0.0 (LPM) /
Casing Diameter	6 inch	Casing Material:	STEEL	Depth (m)	Elev (masl)			Spec. Cap.	0.00 (LPM/m) Hour / Minute
Top of Screen	(mbgs)	Bottom of Screen	(mbgs)	0.0	124.6	Color		Soil Descriptions	
Screen Interva	(m)								
				6.7	117.9		PREVIOUSLY DUG /		/
				9.1	115.5	BROWN	CLAY /	LOOSE	/
				19.8	104.8	RED	SHALE /	HARD	/

2805590		Lot 009	Conc 02	BURLINGTON CITY / HALTON				Flowing? N	
Date	11/21/1980	Elev	124.5 (masl)	Easting	591475	Northing	4795343	SWL	7.6 (mbgs) 116.9 (masl)
DD/MM/YYYY		/ Domestic	Water Supply	UTM RC	4	margin of error : 30 m - 100 m		Pumping WL	17.4 (mbgs) 107.1 (masl)
Water Found	14.3 (mbgs)	110.1 (masl)	FRESH					Pump Rate	4.5 (LPM) 1 / 0
Casing Diameter	6 inch	Casing Material:	STEEL	Depth (m)	Elev (masl)			Spec. Cap.	0.47 (LPM/m) Hour / Minute
Top of Screen	(mbgs)	Bottom of Screen	(mbgs)	0.0	124.5	Color		Soil Descriptions	
Screen Interva	(m)								
				5.2	119.3	BROWN	SAND /	LOOSE	/
				9.8	114.7	GREY	CLAY /	LOOSE	/
				18.3	106.2	RED	SHALE /	HARD	/

2805591		Lot 009	Conc 02	BURLINGTON CITY / HALTON				Flowing? N	
Date	12/5/1980	Elev	124.2 (masl)	Easting	591515	Northing	4795383	SWL	6.1 (mbgs) 118.1 (masl)
DD/MM/YYYY		/ Domestic	Water Supply	UTM RC	4	margin of error : 30 m - 100 m		Pumping WL	13.1 (mbgs) 111.1 (masl)
Water Found	11.0 (mbgs)	113.2 (masl)	FRESH					Pump Rate	4.5 (LPM) 1 / 0
Casing Diameter	6 inch	Casing Material:	STEEL	Depth (m)	Elev (masl)			Spec. Cap.	0.65 (LPM/m) Hour / Minute
Top of Screen	(mbgs)	Bottom of Screen	(mbgs)	0.0	124.2	Color		Soil Descriptions	
Screen Interva	(m)								
				0.6	123.6	BROWN	CLAY /	SANDY	/ LOOSE
				1.2	123.0	BROWN	CLAY /	LOOSE	/
				6.4	117.8	GREY	CLAY /	LOOSE	/
				13.7	110.5	RED	SHALE /	HARD	/

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2806103		Lot 010	Conc 01	BURLINGTON CITY / HALTON				Flowing? N			
Date	1/20/1984	Elev	116.8 (masl)	Easting	591051	Northing	4794878	SWL	8.5	(mbgs)	108.3 (masl)
DD/MM/YYYY		/ Domestic		Water Supply		UTM RC	3	Pumping WL	14.6	(mbgs)	102.2 (masl)
		Water Found	12.2 (mbgs)	104.6 (masl)		FRESH		Pump Rate	4.5	(LPM)	1 / 0
		Casing Diameter	6 inch	Casing Material:	STEEL	Depth (m)		Spec. Cap.	0.75	(LPM/m)	Hour / Minute
		Top of Screen	(mbgs)	Bottom of Screen	(mbgs)	0.0	116.8	Color		Soil Descriptions	
		Screen Interva	(m)								
						3.4	113.4	BROWN		CLAY /	LOOSE /
						6.7	110.1	RED		CLAY /	LOOSE /
						15.2	101.6	RED		SHALE /	HARD /

2806245		Lot 013	Conc 02	BURLINGTON CITY / HALTON				Flowing? N			
Date	5/3/1984	Elev	128.2 (masl)	Easting	589564	Northing	4794464	SWL	3.0	(mbgs)	125.2 (masl)
DD/MM/YYYY		/ Domestic		Water Supply		UTM RC	3	Pumping WL	10.7	(mbgs)	117.6 (masl)
		Water Found	6.7 (mbgs)	121.5 (masl)		FRESH		Pump Rate	4.5	(LPM)	2 / 0
		Casing Diameter	6 inch	Casing Material:	STEEL	Depth (m)		Spec. Cap.	0.60	(LPM/m)	Hour / Minute
		Top of Screen	(mbgs)	Bottom of Screen	(mbgs)	0.0	128.2	Color		Soil Descriptions	
		Screen Interva	(m)								
						0.6	127.6			TOPSOIL /	/
						10.7	117.6	RED		SHALE /	/

2806383		Lot 013	Conc 02	BURLINGTON CITY / HALTON				Flowing? N			
Date	12/21/1985	Elev	133.3 (masl)	Easting	589446	Northing	4794602	SWL	6.7	(mbgs)	126.6 (masl)
DD/MM/YYYY		/ Commerical		Water Supply		UTM RC	3	Pumping WL	18.0	(mbgs)	115.3 (masl)
		Water Found	15.8 (mbgs)	117.4 (masl)		FRESH		Pump Rate	4.5	(LPM)	1 / 0
		Casing Diameter	6 inch	Casing Material:	STEEL	Depth (m)		Spec. Cap.	0.40	(LPM/m)	Hour / Minute
		Top of Screen	(mbgs)	Bottom of Screen	(mbgs)	0.0	133.3	Color		Soil Descriptions	
		Screen Interva	(m)								
						2.4	130.8	GREY		CLAY /	LOOSE /
						4.9	128.4	BROWN		CLAY /	LOOSE /
						6.1	127.2	BROWN		CLAY /	SAND / LOOSE
						7.6	125.6	RED		CLAY /	LOOSE /
						18.3	115.0	RED		SHALE /	HARD /

2806431		Lot 013	Conc 01	BURLINGTON CITY / HALTON				Flowing? N			
Date	3/19/1986	Elev	120.6 (masl)	Easting	589874	Northing	4794216	SWL	6.7	(mbgs)	113.9 (masl)
DD/MM/YYYY		/ Commerical		Water Supply		UTM RC	3	Pumping WL	18.3	(mbgs)	102.3 (masl)
		Water Found	14.3 (mbgs)	106.3 (masl)		FRESH		Pump Rate	36.4	(LPM)	1 / 0
		Casing Diameter	6 inch	Casing Material:	STEEL	Depth (m)		Spec. Cap.	3.14	(LPM/m)	Hour / Minute
		Top of Screen	(mbgs)	Bottom of Screen	(mbgs)	0.0	120.6	Color		Soil Descriptions	
		Screen Interva	(m)								
						2.1	118.5	BROWN		CLAY /	SANDY / LOOSE
						6.1	114.5	BROWN		CLAY /	LOOSE /
						6.7	113.9	BROWN		CLAY /	BOULDERS / LOOSE
						8.2	112.4	BROWN		CLAY /	GRAVEL / LOOSE
						9.1	111.5	RED		CLAY /	LOOSE /
						18.3	102.3	RED		SHALE /	HARD /

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2806642		Lot 009 Conc 01		BURLINGTON CITY / HALTON				Flowing? N						
Date	5/11/1987	Elev	121.4 (masl)	Easting	591376	Northing	4795206	SWL	18.3	(mbgs)	103.1 (masl)			
DD/MM/YYYY		/ Domestic		Water Supply		UTM RC	3	margin of error : 10 - 30 m						
Water Found		25.9 (mbgs)	95.5 (masl)	FRESH										
Casing Diameter	6 inch	Casing Material:	STEEL	Depth (m)		Elev (masl)								
Top of Screen	(mbgs)	Bottom of Screen	(mbgs)	0.0		121.4						Color	Soil Descriptions	
Screen Interva	(m)													
				1.5		119.8		BROWN	SAND /	LOOSE	/			
				4.3		117.1		BROWN	CLAY /	SANDY	/ LOOSE			
				5.8		115.6		GREY	CLAY /	LOOSE	/			
				6.4		115.0		GREY	CLAY /	GRAVEL	/ LOOSE			
				7.6		113.7		RED	CLAY /	GRAVEL	/ LOOSE			
				27.4		93.9		RED	SHALE /	HARD	/			

2806861		Lot 013 Conc 02		BURLINGTON CITY / HALTON				Flowing? N						
Date	3/25/1988	Elev	130.3 (masl)	Easting	589647	Northing	4794592	SWL	5.2	(mbgs)	125.2 (masl)			
DD/MM/YYYY		/ Domestic		Water Supply		UTM RC	3	margin of error : 10 - 30 m						
Water Found		5.5 (mbgs)	124.9 (masl)	Not stated										
Casing Diameter	6 inch	Casing Material:	STEEL	Depth (m)		Elev (masl)								
Top of Screen	(mbgs)	Bottom of Screen	(mbgs)	0.0		130.3						Color	Soil Descriptions	
Screen Interva	(m)													
				4.3		126.1		BROWN	CLAY /	LOOSE	/			
				5.5		124.9		RED	CLAY /	LOOSE	/			
				12.2		118.1		RED	SHALE /	HARD	/			

2807781		Lot 009 Conc 01		BURLINGTON CITY / HALTON				Flowing? N						
Date	3/18/1991	Elev	122.1 (masl)	Easting	591552	Northing	4795294	SWL	2.7	(mbgs)	119.4 (masl)			
DD/MM/YYYY		/ Domestic		Water Supply		UTM RC	3	margin of error : 10 - 30 m						
Water Found		2.7 (mbgs)	119.4 (masl)	FRESH										
Casing Diameter	36 inch	Casing Material:		Depth (m)		Elev (masl)								
Top of Screen	(mbgs)	Bottom of Screen	(mbgs)	0.0		122.1						Color	Soil Descriptions	
Screen Interva	(m)													
				1.2		120.9		BROWN	SAND /		/			
				2.7		119.4		BROWN	CLAY /	SANDY	/			
				6.1		116.1		BLUE	CLAY /	SAND	/ LAYERED			
				11.3		110.9		RED	SHALE /	HARD	/			

2808244		Lot 011 Conc 01		BURLINGTON CITY / HALTON				Flowing? N						
Date	5/16/1994	Elev	118.8 (masl)	Easting	590899	Northing	4794929	SWL	1.8	(mbgs)	116.9 (masl)			
DD/MM/YYYY		Commerical / Domestic		Water Supply		UTM RC	3	margin of error : 10 - 30 m						
Water Found		7.9 (mbgs)	110.8 (masl)	Not stated										
Casing Diameter	6 inch	Casing Material:	STEEL	Depth (m)		Elev (masl)								
Top of Screen	(mbgs)	Bottom of Screen	(mbgs)	0.0		118.8						Color	Soil Descriptions	
Screen Interva	(m)													
				3.0		115.7		BROWN	CLAY /	LOOSE	/			
				7.3		111.4		RED	CLAY /		/			
				18.3		100.5		RED	SHALE /	HARD	/			

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2808287		Lot 011	Conc 01	BURLINGTON CITY / HALTON				Flowing? N			
Date	10/31/1994	Elev	122.8 (masl)	Easting	590510	Northing	4794730	SWL	(mbgs)	(masl)	
DD/MM/YYYY		/ Domestic		Water Supply		UTM RC	3	Pumping WL	(mbgs)	(masl)	
		Water Found	(mbgs)	(masl)		margin of error : 10 - 30 m		Pump Rate	568.3	(LPM)	/
		Casing Diameter	6 inch	Casing Material:	STEEL	Depth (m)	Elev (masl)	Spec. Cap.	(LPM/m)	Hour / Minute	
		Top of Screen	(mbgs)	Bottom of Screen	(mbgs)	0.0	122.8	Color		Soil Descriptions	
		Screen Interva	(m)								
						10.1	112.7	BROWN	CLAY /	LOOSE	/
						21.3	101.4	RED	SHALE /	HARD	/
2808549		Lot 008	Conc 01	BURLINGTON CITY / HALTON				Flowing?			
Date	6/16/1997	Elev	98.0 (masl)	Easting	591766	Northing	4795558	SWL	(mbgs)	(masl)	
DD/MM/YYYY		/ Not Used		Abandoned-Other		UTM RC	3	Pumping WL	(mbgs)	(masl)	
		Water Found	(mbgs)	(masl)		margin of error : 10 - 30 m		Pump Rate	(LPM)	/	
		Casing Diameter		Casing Material:		Depth (m)	Elev (masl)	Spec. Cap.	(LPM/m)	Hour / Minute	
		Top of Screen	(mbgs)	Bottom of Screen	(mbgs)	0.0	98.0	Color		Soil Descriptions	
		Screen Interva	(m)								
						9.1	88.8		PREVIOUSLY DUG /	/	
2808550		Lot 008	Conc 01	BURLINGTON CITY / HALTON				Flowing? N			
Date	5/26/1997	Elev	96.9 (masl)	Easting	591772	Northing	4795552	SWL	1.2	(mbgs)	95.7 (masl)
DD/MM/YYYY		/ Domestic		Water Supply		UTM RC	3	Pumping WL	3.7	(mbgs)	93.2 (masl)
		Water Found	7.9 (mbgs)	89.0 (masl)	Not stated	margin of error : 10 - 30 m		Pump Rate	113.7	(LPM)	0 / 30
		Casing Diameter	6 inch	Casing Material:	STEEL	Depth (m)	Elev (masl)	Spec. Cap.	46.61	(LPM/m)	Hour / Minute
		Top of Screen	(mbgs)	Bottom of Screen	(mbgs)	0.0	96.9	Color		Soil Descriptions	
		Screen Interva	(m)								
						0.3	96.6	BLACK	TOPSOIL /	/	
						2.4	94.5	RED	CLAY /	/	
						5.5	91.4	RED	SHALE /	LOOSE	/
						9.1	87.7	RED	SHALE /	HARD	/
2808554		Lot 013	Conc 02	BURLINGTON CITY / HALTON				Flowing?			
Date	6/2/1997	Elev	154.0 (masl)	Easting	589004	Northing	4795249	SWL	(mbgs)	(masl)	
DD/MM/YYYY		/ Not Used		Abandoned-Other		UTM RC	3	Pumping WL	(mbgs)	(masl)	
		Water Found	(mbgs)	(masl)		margin of error : 10 - 30 m		Pump Rate	(LPM)	/	
		Casing Diameter		Casing Material:		Depth (m)	Elev (masl)	Spec. Cap.	(LPM/m)	Hour / Minute	
		Top of Screen	(mbgs)	Bottom of Screen	(mbgs)	0.0	154.0	Color		Soil Descriptions	
		Screen Interva	(m)								
						9.1	144.9		UNKNOWN TYPE /	PREVIOUSLY DUG /	
2809433		Lot 008	Conc 01	BURLINGTON CITY / HALTON				Flowing? N			
Date	7/10/2001	Elev	118.9 (masl)	Easting	591930	Northing	4795605	SWL	(mbgs)	(masl)	
DD/MM/YYYY		/ Domestic		Water Supply		UTM RC	9	Pumping WL	(mbgs)	(masl)	
		Water Found	9.4 (mbgs)	109.4 (masl)	Not stated	unknown UTM		Pump Rate	(LPM)	/	
		Casing Diameter	36 inch	Casing Material:	CONCRETE	Depth (m)	Elev (masl)	Spec. Cap.	(LPM/m)	Hour / Minute	
		Top of Screen	(mbgs)	Bottom of Screen	(mbgs)	0.0	118.9	Color		Soil Descriptions	
		Screen Interva	(m)								
						0.3	118.6	BROWN	TOPSOIL /	/	

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				3.7	115.2	BROWN	SAND /	/
				9.1	109.7	GREY	CLAY /	SILT / LAYERED
				15.2	103.6	RED	SHALE /	HARD /

2809525	Lot 013	Conc 01	BURLINGTON CITY / HALTON				Flowing?		
Date 12/29/2001	Elev 89.7 (masl)	Easting 590354	Northing 4793893	UTM RC 9	unknown UTM		SWL	(mbgs)	(masl)
DD/MM/YYYY	/	Abandoned-Other					Pumping WL	(mbgs)	(masl)
Water Found	(mbgs)	(masl)					Pump Rate	(LPM)	/
Casing Diameter		Casing Material:		Depth (m)	Elev (masl)		Spec. Cap.	(LPM/m)	Hour / Minute
Top of Screen	(mbgs)	Bottom of Screen	(mbgs)	0.0	89.7	Color		Soil Descriptions	
Screen Interva	(m)								

2809603	Lot 009	Conc 01	BURLINGTON CITY / HALTON				Flowing? N		
Date 5/13/2002	Elev 114.4 (masl)	Easting 591614	Northing 4795258	UTM RC 9	unknown UTM		SWL	1.5 (mbgs)	112.9 (masl)
DD/MM/YYYY	/ Domestic	Water Supply					Pumping WL	9.1 (mbgs)	105.3 (masl)
Water Found	7.0 (mbgs)	107.4 (masl)	FRESH				Pump Rate	(LPM)	1 / 0
Casing Diameter	6 inch	Casing Material: STEEL		Depth (m)	Elev (masl)		Spec. Cap.	(LPM/m)	Hour / Minute
Top of Screen	(mbgs)	Bottom of Screen	(mbgs)	0.0	114.4	Color		Soil Descriptions	
Screen Interva	(m)								
				3.7	110.8	BROWN	CLAY /	SANDY	/
				4.9	109.5	RED	SHALE /	LOOSE	/
				12.2	102.2	RED	SHALE /		/

2809615	Lot 009	Conc 01	BURLINGTON CITY / HALTON				Flowing? N		
Date 8/7/2002	Elev 96.8 (masl)	Easting 591563	Northing 4795580	UTM RC 5	margin of error : 100 m - 300 m		SWL	3.4 (mbgs)	93.5 (masl)
DD/MM/YYYY	/						Pumping WL	10.7 (mbgs)	86.1 (masl)
Water Found	7.0 (mbgs)	89.8 (masl)	Not stated				Pump Rate	68.2 (LPM)	1 / 0
Casing Diameter	6 inch	Casing Material: STEEL		Depth (m)	Elev (masl)		Spec. Cap.	9.32 (LPM/m)	Hour / Minute
Top of Screen	(mbgs)	Bottom of Screen	(mbgs)	0.0	96.8	Color		Soil Descriptions	
Screen Interva	(m)								
				2.4	94.4	BROWN	CLAY /	SANDY	/
				18.3	78.5	RED	SHALE /		/

2810073	Lot 009	Conc 01	BURLINGTON CITY / HALTON				Flowing?		
Date 6/4/2004	Elev 104.6 (masl)	Easting 591750	Northing 4795250	UTM RC 3	margin of error : 10 - 30 m		SWL	(mbgs)	(masl)
DD/MM/YYYY	/ Not Used	Observation Wells					Pumping WL	(mbgs)	(masl)
Water Found	3.0 (mbgs)	101.6 (masl)					Pump Rate	(LPM)	/
Casing Diameter	5 cm	Casing Material: PLASTIC		Depth (m)	Elev (masl)		Spec. Cap.	(LPM/m)	Hour / Minute
Top of Screen	3.6 (mbgs)	Bottom of Screen	6.0 (mbgs)	0.0	104.6	Color		Soil Descriptions	
Screen Interva	2.4 (m)								
				3.6	101.0	GREY	GRAVEL /		/
				6.0	98.6	RED	SHALE /	LIMESTONE	/

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2810409		Lot	Conc	BURLINGTON CITY / HALTON				Flowing?				
Date	6/1/2005	Elev	100.4 (masl)	Easting	590297	Northing	4793969	SWL		(mbgs)	(masl)	
DD/MM/YYYY			/ Not Used	Observation Wells		UTM RC	4	margin of error : 30 m - 100 m	Pumping WL	(mbgs)	(masl)	
		Water Found	5.0 (mbgs)	95.4 (masl)					Pump Rate	(LPM)	/	
									Spec. Cap.	(LPM/m)	Hour / Minute	
		Casing Diameter	5 cm	Casing Material:	PLASTIC	Depth (m)		Elev (masl)				
						0.0		100.4	Color		Soil Descriptions	
		Top of Screen	3.0 (mbgs)	Bottom of Screen	6.0 (mbgs)							
		Screen Interva	3.0 (m)									
						5.0		95.4	RED	CLAY /	SILTY	/ SOFT
						6.0		94.4	RED	SHALE /	WEATHERED	/ HARD
6802573		Lot	013	Conc	03	EAST FLAMBOROUGH TOWNSHIP / WENTWORTH				Flowing?	N	
Date	6/24/1953	Elev	217.1 (masl)	Easting	588114	Northing	4795798	SWL	23.2	(mbgs)	193.9	(masl)
DD/MM/YYYY			/ Domestic	Water Supply		UTM RC	9	unknown UTM	Pumping WL	29.3	(mbgs)	187.9 (masl)
		Water Found	24.4 (mbgs)	192.7 (masl)		FRESH			Pump Rate	4.5	(LPM)	4 / 0
									Spec. Cap.	0.75	(LPM/m)	Hour / Minute
		Casing Diameter	6 inch	Casing Material:	STEEL	Depth (m)		Elev (masl)				
						0.0		217.1	Color		Soil Descriptions	
		Top of Screen	(mbgs)	Bottom of Screen	(mbgs)							
		Screen Interva	(m)									
						24.4		192.7		LIMESTONE /		/
						29.3		187.9	BLUE	SHALE /		/
6802588		Lot	013	Conc	03	EAST FLAMBOROUGH TOWNSHIP / WENTWORTH				Flowing?		
Date	8/9/1965	Elev	176.8 (masl)	Easting	588402	Northing	4795548	SWL		(mbgs)	(masl)	
DD/MM/YYYY			/	Abandoned-Supply		UTM RC	5	margin of error : 100 m - 300 m	Pumping WL	(mbgs)	(masl)	
		Water Found	(mbgs)	(masl)					Pump Rate	(LPM)	/	
									Spec. Cap.	(LPM/m)	Hour / Minute	
		Casing Diameter	30 inch	Casing Material:		Depth (m)		Elev (masl)				
						0.0		176.8	Color		Soil Descriptions	
		Top of Screen	(mbgs)	Bottom of Screen	(mbgs)							
		Screen Interva	(m)									
						4.9		171.9	BROWN	CLAY /		/
						7.6		169.1	BLUE	CLAY /		/
						12.2		164.6	BROWN	CLAY /		/
						12.5		164.3	RED	SHALE /		/
6805845		Lot	028	Conc	01	WEST FLAMBOROUGH TOWNSHIP / WENTWORTH				Flowing?	N	
Date	10/14/1955	Elev	80.1 (masl)	Easting	589525	Northing	4793160	SWL	6.4	(mbgs)	73.7	(masl)
DD/MM/YYYY			/ Domestic	Water Supply		UTM RC	9	unknown UTM	Pumping WL	7.6	(mbgs)	72.4 (masl)
		Water Found	11.9 (mbgs)	68.2 (masl)		SALTY			Pump Rate	22.7	(LPM)	1 / 0
									Spec. Cap.	18.64	(LPM/m)	Hour / Minute
		Casing Diameter	6 inch	Casing Material:	STEEL	Depth (m)		Elev (masl)				
						0.0		80.1	Color		Soil Descriptions	
		Top of Screen	(mbgs)	Bottom of Screen	(mbgs)							
		Screen Interva	(m)									
						1.5		78.5		TOPSOIL /	MEDIUM SAND	/
						11.6		68.5	BLUE	CLAY /		/
						11.9		68.2	RED	SHALE /		/

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6806127		Lot 025	Conc 02	WEST FLAMBOROUGH TOWNSHIP / WENTWORTH				Flowing? N					
Date	7/5/1948	Elev	213.3 (masl)	Easting	587881	Northing	4795414	SWL	2.7	(mbgs)	210.5	(masl)	
DD/MM/YYYY		/ Domestic		Water Supply		UTM RC 5		margin of error : 100 m - 300 m				(masl)	
Water Found		14.6	(mbgs)	198.6	(masl)	FRESH		Pumping WL		(mbgs)			
Casing Diameter		6	inch	Casing Material: STEEL		Depth (m)	Elev (masl)	Pump Rate		(LPM)		/	
Top of Screen			(mbgs)	Bottom of Screen		0.0	213.3	Spec. Cap.		(LPM/m)		Hour / Minute	
Screen Interva			(m)										Soil Descriptions
						2.1	211.1			CLAY /		/	
						12.8	200.5			LIMESTONE /		/	
						14.6	198.6			SHALE /		/	
6806131		Lot 025	Conc 02	WEST FLAMBOROUGH TOWNSHIP / WENTWORTH				Flowing? Y					
Date	5/12/1960	Elev	172.6 (masl)	Easting	588196	Northing	4795195	SWL		(mbgs)		(masl)	
DD/MM/YYYY		/ Domestic		Water Supply		UTM RC 5		margin of error : 100 m - 300 m					
Water Found		11.6	(mbgs)	161.0	(masl)	FRESH		Pumping WL	2.4	(mbgs)	170.1	(masl)	
Casing Diameter		2	inch	Casing Material: STEEL		Depth (m)	Elev (masl)	Pump Rate	18.2	(LPM)		2 / 0	
Top of Screen			(mbgs)	Bottom of Screen		0.0	172.6	Spec. Cap.		(LPM/m)		Hour / Minute	
Screen Interva			(m)										Soil Descriptions
						2.7	169.8	RED		CLAY /		/	
						11.6	161.0	RED		LIMESTONE /		/	
6806132		Lot 025	Conc 02	WEST FLAMBOROUGH TOWNSHIP / WENTWORTH				Flowing? N					
Date	6/10/1960	Elev	173.3 (masl)	Easting	588149	Northing	4795170	SWL	10.7	(mbgs)	162.7	(masl)	
DD/MM/YYYY		/ Domestic		Water Supply		UTM RC 5		margin of error : 100 m - 300 m					
Water Found		35.4	(mbgs)	138.0	(masl)	FRESH		Pumping WL	35.4	(mbgs)	138.0	(masl)	
Casing Diameter		6	inch	Casing Material: STEEL		Depth (m)	Elev (masl)	Pump Rate	4.5	(LPM)		3 / 0	
Top of Screen			(mbgs)	Bottom of Screen		0.0	173.3	Spec. Cap.	0.18	(LPM/m)		Hour / Minute	
Screen Interva			(m)										Soil Descriptions
						0.9	172.4			TOPSOIL /		/	
						14.3	159.0	BLUE		CLAY /		/	
						35.4	138.0	RED		SHALE /		/	
6806133		Lot 026	Conc 02	WEST FLAMBOROUGH TOWNSHIP / WENTWORTH				Flowing?					
Date	7/22/1960	Elev	180.4 (masl)	Easting	588166	Northing	4795338	SWL		(mbgs)		(masl)	
DD/MM/YYYY		/ Domestic		Abandoned-Supply		UTM RC 5		margin of error : 100 m - 300 m					
Water Found			(mbgs)		(masl)			Pumping WL		(mbgs)		(masl)	
Casing Diameter		2	inch	Casing Material: STEEL		Depth (m)	Elev (masl)	Pump Rate		(LPM)		/	
Top of Screen			(mbgs)	Bottom of Screen		0.0	180.4	Spec. Cap.		(LPM/m)		Hour / Minute	
Screen Interva			(m)										Soil Descriptions
						9.1	171.2	GREY		GRAVEL /		/	
						12.2	168.2			QUICKSAND /		/	
						76.2	104.2	RED		SHALE /		/	

Well Record #

6806139	Lot 026	Conc 02	WEST FLAMBOROUGH TOWNSHIP / WENTWORTH				Flowing?			
Date 9/6/1959	Elev 155.7 (masl)	Easting 588367	Northing 4794869	UTM RC 5	margin of error : 100 m - 300 m	Pumping WL	SWL	(mbgs)	(masl)	
DD/MM/YYYY	/	Abandoned-Supply				Pump Rate		(mbgs)	(masl)	
Water Found	7.3 (mbgs)	148.4 (masl)	FRESH			Spec. Cap.		(LPM)	/	
Casing Diameter	7 inch	Casing Material:		Depth (m)	Elev (masl)			(LPM/m)	Hour / Minute	
Top of Screen	(mbgs)	Bottom of Screen	(mbgs)	0.0	155.7	Color			Soil Descriptions	
Screen Interva	(m)			1.8	153.9	BROWN		CLAY /	/	
				7.3	148.4	RED		SHALE /	/	
				9.1	146.6			QUICKSAND /	/	

6806145	Lot 027	Conc 02	WEST FLAMBOROUGH TOWNSHIP / WENTWORTH				Flowing? N			
Date 7/12/1952	Elev 147.3 (masl)	Easting 588861	Northing 4794871	UTM RC 9	unknown UTM	Pumping WL	SWL	6.7 (mbgs)	140.6 (masl)	
DD/MM/YYYY	/ Domestic	Water Supply				Pump Rate		6.7 (mbgs)	140.6 (masl)	
Water Found	16.2 (mbgs)	131.2 (masl)	FRESH			Spec. Cap.		4.5 (LPM)	/	
Casing Diameter	6 inch	Casing Material: STEEL		Depth (m)	Elev (masl)			9,999.99 (LPM/m)	Hour / Minute	
Top of Screen	(mbgs)	Bottom of Screen	(mbgs)	0.0	147.3	Color			Soil Descriptions	
Screen Interva	(m)			16.2	131.2	RED		CLAY /	/	
				16.8	130.6	RED		SHALE /	/	

6806146	Lot 027	Conc 02	WEST FLAMBOROUGH TOWNSHIP / WENTWORTH				Flowing? N			
Date 6/25/1962	Elev 157.9 (masl)	Easting 588488	Northing 4795037	UTM RC 5	margin of error : 100 m - 300 m	Pumping WL	SWL	7.6 (mbgs)	150.3 (masl)	
DD/MM/YYYY	/ Domestic	Water Supply				Pump Rate		23.5 (mbgs)	134.4 (masl)	
Water Found	24.4 (mbgs)	133.5 (masl)	FRESH			Spec. Cap.		4.5 (LPM)	4 / 0	
Casing Diameter	6 inch	Casing Material: STEEL		Depth (m)	Elev (masl)			0.29 (LPM/m)	Hour / Minute	
Top of Screen	(mbgs)	Bottom of Screen	(mbgs)	0.0	157.9	Color			Soil Descriptions	
Screen Interva	(m)			5.2	152.7	BROWN		CLAY /	/	
				14.0	143.9	GREY		CLAY /	/	
				26.5	131.4	RED		SHALE /	/	

6806147	Lot 028	Conc 02	WEST FLAMBOROUGH TOWNSHIP / WENTWORTH				Flowing? N			
Date 6/8/1951	Elev 130.8 (masl)	Easting 589168	Northing 4794312	UTM RC 9	unknown UTM	Pumping WL	SWL	2.4 (mbgs)	128.3 (masl)	
DD/MM/YYYY	/ Irrigation	Water Supply				Pump Rate		6.1 (mbgs)	124.7 (masl)	
Water Found	13.7 (mbgs)	117.1 (masl)	FRESH			Spec. Cap.		13.6 (LPM)	/	
Casing Diameter	6 inch	Casing Material: STEEL		Depth (m)	Elev (masl)			3.73 (LPM/m)	Hour / Minute	
Top of Screen	6.4 (mbgs)	Bottom of Screen	7.6 (mbgs)	0.0	130.8	Color			Soil Descriptions	
Screen Interva	1.2 (m)			6.1	124.7	RED		CLAY /	/	
				7.0	123.8	BROWN		GRAVEL /	/	
				13.7	117.1	RED		SHALE /	/	

Well Record

6806148		Lot 028	Conc 02	WEST FLAMBOROUGH TOWNSHIP / WENTWORTH								
Date	8/4/1951	Elev	133.3 (masl)	Easting	589040	Northing	4794413	SWL	4.6	(mbgs)	128.7	(masl)
DD/MM/YYYY		/ Domestic		Water Supply		UTM RC 9 unknown UTM		Pumping WL		(mbgs)		(masl)
Water Found		18.3	(mbgs)	115.0	(masl)	FRESH		Pump Rate	9.1	(LPM)	1 / 30	
								Spec. Cap.		(LPM/m)	Hour / Minute	
Casing Diameter		6	inch	Casing Material:	STEEL	Depth (m)		Elev (masl)				
						0.0		133.3				
Top of Screen			(mbgs)	Bottom of Screen		(mbgs)			Color		Soil Descriptions	
Screen Interva			(m)									
						5.5		127.8	BROWN	CLAY /		/
						10.4		122.9		STONES /	MEDIUM SAND	/
						11.9		121.4	BROWN	CLAY /	GRAVEL	/
						18.3		115.0	RED	SHALE /		/

6806149		Lot 028	Conc 02	WEST FLAMBOROUGH TOWNSHIP / WENTWORTH								
Date	12/10/1952	Elev	130.7 (masl)	Easting	589145	Northing	4794338	SWL	9.1	(mbgs)	121.6	(masl)
DD/MM/YYYY		/ Domestic		Water Supply		UTM RC 9 unknown UTM		Pumping WL		(mbgs)		(masl)
Water Found		20.1	(mbgs)	110.6	(masl)	FRESH		Pump Rate	13.6	(LPM)	1 / 0	
								Spec. Cap.		(LPM/m)	Hour / Minute	
Casing Diameter		6	inch	Casing Material:	STEEL	Depth (m)		Elev (masl)				
						0.0		130.7				
Top of Screen			(mbgs)	Bottom of Screen		(mbgs)			Color		Soil Descriptions	
Screen Interva			(m)									
						9.1		121.6	BROWN	CLAY /	STONES	/
						12.2		118.5	BROWN	MEDIUM SAND /	GRAVEL	/
						20.1		110.6	RED	SHALE /		/

6806150		Lot 028	Conc 02	WEST FLAMBOROUGH TOWNSHIP / WENTWORTH								
Date	11/15/1965	Elev	130.5 (masl)	Easting	589246	Northing	4794367	SWL	3.4	(mbgs)	127.1	(masl)
DD/MM/YYYY		/ Domestic		Water Supply		UTM RC 5 margin of error : 100 m - 300 m		Pumping WL		(mbgs)		(masl)
Water Found		3.4	(mbgs)	127.1	(masl)	FRESH		Pump Rate		(LPM)		/
								Spec. Cap.		(LPM/m)	Hour / Minute	
Casing Diameter		28	inch	Casing Material:	CONCRETE	Depth (m)		Elev (masl)				
						0.0		130.5				
Top of Screen			(mbgs)	Bottom of Screen		(mbgs)			Color		Soil Descriptions	
Screen Interva			(m)									
						0.3		130.2		TOPSOIL /		/
						4.0		126.5	RED	CLAY /		/
						6.4		124.1	RED	CLAY /	MEDIUM SAND	/
						9.1		121.3	RED	CLAY /		/
						11.6		118.9	RED	CLAY /	MEDIUM SAND	/
						11.9		118.6		LIMESTONE /		/

6806992		Lot 013	Conc 03	EAST FLAMBOROUGH TOWNSHIP / WENTWORTH								
Date	5/14/1968	Elev	218.0 (masl)	Easting	588294	Northing	4795683	SWL		(mbgs)		(masl)
DD/MM/YYYY		/		Abandoned-Supply		UTM RC 5 margin of error : 100 m - 300 m		Pumping WL		(mbgs)		(masl)
Water Found			(mbgs)		(masl)			Pump Rate		(LPM)		/
								Spec. Cap.		(LPM/m)	Hour / Minute	
Casing Diameter		6	inch	Casing Material:	OPEN HOLE	Depth (m)		Elev (masl)				
						0.0		218.0				
Top of Screen			(mbgs)	Bottom of Screen		(mbgs)			Color		Soil Descriptions	
Screen Interva			(m)									
						0.3		217.7		TOPSOIL /		/
						12.2		205.9		SHALE /		/
						14.6		203.4	RED	SHALE /		/
						24.4		193.7	BLUE	SHALE /		/

Well Record

6807099									
Lot	028	Conc	02	WEST FLAMBOROUGH TOWNSHIP / WENTWORTH					
Date	3/21/1969	Elev	131.9 (masl)	Easting	589295	Northing	4794483	Flowing? N	
DD/MM/YYYY		/ Domestic		Water Supply		UTM RC	4	SWL	1.2 (mbgs) 130.7 (masl)
Water Found	3.7 (mbgs)		128.2 (masl)	FRESH		margin of error : 30 m - 100 m			
Casing Diameter	30 inch	Casing Material:	CONCRETE	Depth (m)		Elev (masl)		Pumping WL	22.7 (mbgs) (masl)
Top of Screen	(mbgs)	Bottom of Screen	(mbgs)	0.0		131.9	Color	Pump Rate	(LPM) /
Screen Interva	(m)							Spec. Cap.	(LPM/m) Hour / Minute
				5.5		126.4	BROWN		CLAY / /
				7.9		124.0	RED		SHALE / /
6807423									
Lot	028	Conc	02	WEST FLAMBOROUGH TOWNSHIP / WENTWORTH					
Date	2/19/1970	Elev	130.3 (masl)	Easting	589275	Northing	4794393	Flowing? N	
DD/MM/YYYY		/ Domestic		Water Supply		UTM RC	4	SWL	4.9 (mbgs) 125.4 (masl)
Water Found	12.5 (mbgs)		117.8 (masl)	FRESH		margin of error : 30 m - 100 m			
Casing Diameter	30 inch	Casing Material:	CONCRETE	Depth (m)		Elev (masl)		Pumping WL	14.6 (mbgs) 115.6 (masl)
Top of Screen	(mbgs)	Bottom of Screen	(mbgs)	0.0		130.3	Color	Pump Rate	(LPM) 1 / 0
Screen Interva	(m)							Spec. Cap.	(LPM/m) Hour / Minute
				0.3		129.9	BROWN		TOPSOIL / /
				11.0		119.3	BROWN		CLAY / STONES / BOULDERS
				14.6		115.6	RED		SHALE / /
6808804									
Lot	026	Conc	02	WEST FLAMBOROUGH TOWNSHIP / WENTWORTH					
Date	8/28/1973	Elev	166.4 (masl)	Easting	588337	Northing	4795268	Flowing? N	
DD/MM/YYYY		/ Domestic		Water Supply		UTM RC	4	SWL	4.6 (mbgs) 161.8 (masl)
Water Found	15.2 (mbgs)		151.2 (masl)	FRESH		margin of error : 30 m - 100 m			
Casing Diameter	30 inch	Casing Material:	CONCRETE	Depth (m)		Elev (masl)		Pumping WL	0.0 (mbgs) (masl)
Top of Screen	(mbgs)	Bottom of Screen	(mbgs)	0.0		166.4	Color	Pump Rate	(LPM) /
Screen Interva	(m)							Spec. Cap.	(LPM/m) Hour / Minute
				0.3		166.1	BLACK		TOPSOIL / /
				3.7		162.7	BROWN		CLAY / PACKED /
				5.5		160.9	BLUE		CLAY / SOFT /
				10.7		155.7	GREY		CLAY / BOULDERS / PACKED
				12.8		153.6	BROWN		CLAY / SILT / SAND
				14.0		152.4	BLUE		CLAY / SILT / SOFT
				14.6		151.8	BROWN		CLAY / STONES / PACKED
				15.8		150.5	RED		SHALE / /
6809075									
Lot	011	Conc	01	BURLINGTON CITY / HALTON					
Date	12/19/1974	Elev	116.1 (masl)	Easting	590595	Northing	4794583	Flowing? N	
DD/MM/YYYY		/ Domestic		Water Supply		UTM RC	4	SWL	3.7 (mbgs) 112.4 (masl)
Water Found	7.6 (mbgs)		108.5 (masl)	FRESH		margin of error : 30 m - 100 m			
Casing Diameter	36 inch	Casing Material:	CONCRETE	Depth (m)		Elev (masl)		Pumping WL	(mbgs) (masl)
Top of Screen	(mbgs)	Bottom of Screen	(mbgs)	0.0		116.1	Color	Pump Rate	(LPM) /
Screen Interva	(m)							Spec. Cap.	(LPM/m) Hour / Minute
				0.3		115.8	BROWN		TOPSOIL / /
				3.0		113.1	BROWN		CLAY / /
				7.6		108.5	RED		SHALE / HARD /

Well Record #

6811865		Lot 029	Conc 01	WEST FLAMBOROUGH TOWNSHIP / WENTWORTH				Flowing? N				
Date	2/19/1990	Elev	100.0 (masl)	Easting	589923	Northing	4793163	SWL	2.1	(mbgs)	97.8	(masl)
DD/MM/YYYY		/ Domestic		Water Supply		UTM RC	9	unknown UTM		(mbgs)		(masl)
		Water Found	2.1 (mbgs)		97.8 (masl)	FRESH		Pumping WL		(LPM)		/
		Casing Diameter	36 inch	Casing Material:	CONCRETE	Depth (m)	Elev (masl)	Pump Rate		(LPM/m)	Hour / Minute	
		Top of Screen	(mbgs)	Bottom of Screen	(mbgs)	0.0	100.0	Spec. Cap.				
		Screen Interva	(m)									
						0.3	99.7	BROWN	TOPSOIL /		/	
						1.2	98.8	BROWN	CLAY /	SANDY	/	
						4.6	95.4	BROWN	SAND /		/	
						5.5	94.5	BROWN	SAND /		/	
						7.0	93.0	GREY	SILT /		/	
								GREY	SAND /		/	
6813613		Lot 028	Conc 02	WEST FLAMBOROUGH TOWNSHIP / WENTWORTH				Flowing?				
Date	1/16/2002	Elev	147.5 (masl)	Easting	588854	Northing	4794878	SWL		(mbgs)		(masl)
DD/MM/YYYY		/		Abandoned-Other		UTM RC	5	margin of error : 100 m - 300 m		(mbgs)		(masl)
		Water Found	(mbgs)		(masl)			Pumping WL		(LPM)		/
		Casing Diameter		Casing Material:		Depth (m)	Elev (masl)	Pump Rate		(LPM/m)	Hour / Minute	
		Top of Screen	(mbgs)	Bottom of Screen	(mbgs)	0.0	147.5	Spec. Cap.				
		Screen Interva	(m)									
6813972		Lot	Conc	DUNDAS TOWN / WENTWORTH				Flowing? N				
Date	12/1/2003	Elev	76.3 (masl)	Easting	589301	Northing	4792894	SWL		(mbgs)		(masl)
DD/MM/YYYY		/ Not Used		Observation Wells		UTM RC	5	margin of error : 100 m - 300 m		(mbgs)		(masl)
		Water Found	1.5 (mbgs)		74.8 (masl)	FRESH		Pumping WL		(LPM)		/
		Casing Diameter	3 cm	Casing Material:		Depth (m)	Elev (masl)	Pump Rate		(LPM/m)	Hour / Minute	
		Top of Screen	3.7 (mbgs)	Bottom of Screen	4.6 (mbgs)	0.0	76.3	Spec. Cap.				
		Screen Interva	0.9 (m)									
						0.3	76.0	BROWN	PEAT /	TOPSOIL	/	
						1.2	75.1	BROWN	TOPSOIL /	GRAVEL	/	FILL
						4.6	71.7	GREY	CLAY /	TOPSOIL	/	WATER-BEARING
6813973		Lot	Conc	DUNDAS TOWN / WENTWORTH				Flowing? N				
Date	12/1/2003	Elev	75.6 (masl)	Easting	589334	Northing	4792880	SWL		(mbgs)		(masl)
DD/MM/YYYY		/ Not Used		Observation Wells		UTM RC	5	margin of error : 100 m - 300 m		(mbgs)		(masl)
		Water Found	1.3 (mbgs)		74.3 (masl)	FRESH		Pumping WL		(LPM)		/
		Casing Diameter	3 cm	Casing Material:	PLASTIC	Depth (m)	Elev (masl)	Pump Rate		(LPM/m)	Hour / Minute	
		Top of Screen	2.4 (mbgs)	Bottom of Screen	3.0 (mbgs)	0.0	75.6	Spec. Cap.				
		Screen Interva	0.6 (m)									
						0.3	75.3	BROWN	PEAT /		/	
						1.2	74.4	BROWN	TOPSOIL /	CLAY	/	
						2.7	72.9	BROWN	CLAY /	SAND	/	WATER-BEARING
						3.0	72.6	GREY	CLAY /	WATER-BEARING	/	

Well Record

6813974	Lot	Conc	DUNDAS TOWN / WENTWORTH				Flowing? N		
Date 12/1/2003 DD/MM/YYYY	Elev	77.1 (masl)	Easting 589280	Northing 4792902	UTM RC 5	margin of error : 100 m - 300 m	Pumping WL	(mbgs)	(masl)
	Water Found	1.3 (mbgs)	75.8 (masl)	FRESH			Pump Rate	(mbgs)	(masl)
	Casing Diameter	3 cm	Casing Material: PLASTIC	Depth (m)	Elev (masl)		Spec. Cap.	(LPM)	/
	Top of Screen	1.8 (mbgs)	Bottom of Screen 2.7 (mbgs)	0.0	77.1	Color		(LPM/m)	Hour / Minute
	Screen Interva	0.9 (m)							
				0.3	76.8	BROWN		PEAT /	/
				1.2	75.9	BROWN		TOPSOIL /	CLAY /
				2.7	74.4	GREY		CLAY /	SAND / WATER-BEARING

6814032	Lot 028	Conc 02	WEST FLAMBOROUGH TOWNSHIP / WENTWORTH				Flowing?		
Date 6/21/2004 DD/MM/YYYY	Elev	145.0 (masl)	Easting 589006	Northing 4794788	UTM RC 3	margin of error : 10 - 30 m	Pumping WL	(mbgs)	(masl)
	Water Found	(mbgs)	Abandoned-Other (masl)				Pump Rate	(mbgs)	(masl)
	Casing Diameter		Casing Material:	Depth (m)	Elev (masl)		Spec. Cap.	(LPM)	/
	Top of Screen	(mbgs)	Bottom of Screen (mbgs)	0.0	145.0	Color		(LPM/m)	Hour / Minute
	Screen Interva	(m)							
								/	/

6814115	Lot 027	Conc 02	WEST FLAMBOROUGH TOWNSHIP / WENTWORTH				Flowing?		
Date 7/6/2004 DD/MM/YYYY	Elev	146.0 (masl)	Easting 588907	Northing 4794806	UTM RC 3	margin of error : 10 - 30 m	Pumping WL	(mbgs)	(masl)
	Water Found	4.5 (mbgs)	141.5 (masl)				Pump Rate	(mbgs)	(masl)
	Casing Diameter	5 cm	Casing Material: PLASTIC	Depth (m)	Elev (masl)		Spec. Cap.	(LPM)	/
	Top of Screen	3.0 (mbgs)	Bottom of Screen 6.0 (mbgs)	0.0	146.0	Color		(LPM/m)	Hour / Minute
	Screen Interva	3.0 (m)							
				4.5	141.5	BROWN		CLAY /	/
				6.0	140.0	GREY		CLAY /	/

6814411	Lot	Conc	DUNDAS TOWN / WENTWORTH				Flowing?		
Date 11/25/2005 DD/MM/YYYY	Elev	148.2 (masl)	Easting 588820	Northing 4794982	UTM RC 4	margin of error : 30 m - 100 m	Pumping WL	(mbgs)	(masl)
	Water Found	(mbgs)	Abandoned-Other (masl)				Pump Rate	(mbgs)	(masl)
	Casing Diameter	2 inch	Casing Material: PLASTIC	Depth (m)	Elev (masl)		Spec. Cap.	(LPM)	/
	Top of Screen	(mbgs)	Bottom of Screen (mbgs)	0.0	148.2	Color		(LPM/m)	Hour / Minute
	Screen Interva	(m)							
								/	/

6814413	Lot	Conc	DUNDAS TOWN / WENTWORTH				Flowing?		
Date 11/25/2005 DD/MM/YYYY	Elev	146.9 (masl)	Easting 588899	Northing 4794945	UTM RC 4	margin of error : 30 m - 100 m	Pumping WL	(mbgs)	(masl)
	Water Found	(mbgs)	Abandoned-Other (masl)				Pump Rate	(mbgs)	(masl)
	Casing Diameter	2 inch	Casing Material: PLASTIC	Depth (m)	Elev (masl)		Spec. Cap.	(LPM)	/
	Top of Screen	(mbgs)	Bottom of Screen (mbgs)	0.0	146.9	Color		(LPM/m)	Hour / Minute
	Screen Interva	(m)							
								/	/

6814414		DUNDAS TOWN / WENTWORTH										Flowing?	
Date	11/25/2005	Elev	146.7	(masl)	Easting	588909	Northing	4794939	SWL	(mbgs)	(masl)		
DD/MM/YYYY		/		Abandoned-Other		UTM RC		4	margin of error : 30 m - 100 m		Pumping WL	(mbgs)	(masl)
Water Found		(mbgs)		(masl)						Pump Rate	(LPM)	/	
Casing Diameter		2	inch	Casing Material:		PLASTIC		Depth (m)	Elev (masl)	Spec. Cap.	(LPM/m)	Hour / Minute	
Top of Screen		(mbgs)		Bottom of Screen		(mbgs)		0.0	146.7	Color	Soil Descriptions		
Screen Interva		(m)											

6814415		Lot	Conc		DUNDAS TOWN / WENTWORTH				Flowing?	
Date	11/25/2005	Elev	147.2 (masl)	Easting	588887	Northing	4794933	SWL	(mbgs)	(masl)
DD/MM/YYYY		/		Abandoned-Other		UTM RC	4	Pumping WL	(mbgs)	(masl)
Water Found		(mbgs)		(masl)		margin of error : 30 m - 100 m		Pump Rate	(LPM)	/
Casing Diameter		2	inch	Casing Material:	PLASTIC	Depth (m)	Elev (masl)	Spec. Cap.	(LPM/m)	Hour / Minute
Top of Screen		(mbgs)		Bottom of Screen	(mbgs)		0.0	147.2	Color	Soil Descriptions
Screen Interva		(m)								

7050027		Lot	Conc	BURLINGTON CITY / HALTON				Flowing?	
Date	8/15/2007	Elev	130.7 (masl)	Easting	589617	Northing	4794549	SWL	(mbgs) (masl)
DD/MM/YYYY		/		Abandoned-Other		UTM RC	3	Pumping WL	(mbgs) (masl)
		Water Found	(mbgs) (masl)			margin of error : 10 - 30 m		Pump Rate	(LPM) /
								Spec. Cap.	(LPM/m) Hour / Minute
		Casing Diameter		Casing Material:		Depth (m)	Elev (masl)		
		Top of Screen	(mbgs)	Bottom of Screen	(mbgs)	0.0	130.7	Color	Soil Descriptions
		Screen Interva	(m)						

7105966		Lot 063		Conc		BURLINGTON CITY / HALTON				Flowing?	
Date	4/13/2008	Elev	102.1 (masl)	Easting	591348	Northing	4795743	SWL		(mbgs)	(masl)
DD/MM/YYYY		/				UTM RC 3		margin of error : 10 - 30 m		Pumping WL	(mbgs) (masl)
		Water Found		(mbgs) (masl)				Pump Rate		(LPM)	/
								Spec. Cap.		(LPM/m)	Hour / Minute
		Casing Diameter		Casing Material:		Depth (m)		Elev (masl)		Color	
		Top of Screen		(mbgs)		Bottom of Screen		(mbgs)		Soil Descriptions	
		Screen Interva		(m)							

7114370		Lot	Conc	BURLINGTON CITY / HALTON				Flowing?			
Date	4/18/2008	Elev	117.5 (masl)	Easting	592000	Northing	4795840	SWL	(mbgs)	(masl)	
DD/MM/YYYY		/		Observation Wells		UTM RC	3	Pumping WL	(mbgs)	(masl)	
		Water Found	(mbgs)		(masl)	margin of error : 10 - 30 m		Pump Rate	(LPM)	/	
								Spec. Cap.	(LPM/m)	Hour / Minute	
		Casing Diameter	2 inch	Casing Material:	PLASTIC	Depth (m)	Elev (masl)				
		Top of Screen	8.2 (mbgs)	Bottom of Screen	11.3 (mbgs)	0.0	117.5	Color		Soil Descriptions	
		Screen Interva	3.0 (m)								
						11.3	106.2	GREY	SAND /	GRAVEL	/

Well Record

7134022		Lot	Conc	BURLINGTON CITY / HALTON				Flowing?			
Date	9/21/2009	Elev	96.1 (masl)	Easting	590335	Northing	4793967	SWL	(mbgs)	(masl)	
DD/MM/YYYY		/ Monitoring		Observation Wells		UTM RC 3		Pumping WL	(mbgs)	(masl)	
		Water Found		(mbgs)		margin of error : 10 - 30 m		Pump Rate	(LPM)	/	
				(masl)				Spec. Cap.	(LPM/m)	Hour / Minute	
		Casing Diameter	2 inch	Casing Material: PLASTIC		Depth (m)	Elev (masl)			Soil Descriptions	
		Top of Screen	4.6 (mbgs)	Bottom of Screen		0.0	96.1	Color			
		Screen Interva	3.0 (m)								
						0.3	95.8	BROWN	FILL /	GRAVEL	/
						6.1	90.0	RED	SHALE /		/ WEATHERED
						7.6	88.4	RED	SHALE /		/ HARD

7139359		Lot	Conc	DUNDAS TOWN / WENTWORTH				Flowing?			
Date	12/10/2009	Elev	153.7 (masl)	Easting	588450	Northing	4794880	SWL	1.1	(mbgs)	152.6 (masl)
DD/MM/YYYY		Monitoring /		Test Hole		UTM RC 4		Pumping WL	(mbgs)	(masl)	
		Water Found		152.2 (masl)		margin of error : 30 m - 100 m		Pump Rate	(LPM)	/	
				(mbgs)				Spec. Cap.	(LPM/m)	Hour / Minute	
		Casing Diameter	5 cm	Casing Material: PLASTIC		Depth (m)	Elev (masl)			Soil Descriptions	
		Top of Screen	(mbgs)	Bottom of Screen		0.0	153.7	Color			
		Screen Interva	(m)								
									/		/
									/		/
									/		/
									/		/
									/		/
									/		/
									/		/
									/		/

7153627		Lot	Conc	BURLINGTON CITY / HALTON				Flowing?			
Date	4/10/2010	Elev	123.1 (masl)	Easting	589908	Northing	4794298	SWL	(mbgs)	(masl)	
DD/MM/YYYY		/ Not Used		Abandoned-Other		UTM RC 3		Pumping WL	(mbgs)	(masl)	
		Water Found		(mbgs)		margin of error : 10 - 30 m		Pump Rate	(LPM)	/	
				(masl)				Spec. Cap.	(LPM/m)	Hour / Minute	
		Casing Diameter		Casing Material:		Depth (m)	Elev (masl)			Soil Descriptions	
		Top of Screen	(mbgs)	Bottom of Screen		0.0	123.1	Color			
		Screen Interva	(m)								
									/		/

7163088		Lot	010	Conc	01	BURLINGTON CITY / HALTON				Flowing?	
Date	3/2/2011	Elev	121.3 (masl)	Easting	591119	Northing	4795055	SWL	(mbgs)	(masl)	
DD/MM/YYYY		/		Abandoned-Supply		UTM RC 3		Pumping WL	(mbgs)	(masl)	
		Water Found		(mbgs)		margin of error : 10 - 30 m		Pump Rate	(LPM)	/	
				(masl)				Spec. Cap.	(LPM/m)	Hour / Minute	
		Casing Diameter		Casing Material:		Depth (m)	Elev (masl)			Soil Descriptions	
		Top of Screen	(mbgs)	Bottom of Screen		0.0	121.3	Color			
		Screen Interva	(m)								
						0.3	121.0	BROWN	TOPSOIL /		/
						5.5	115.8	BROWN	CLAY /		/
						12.8	108.5	RED	SHALE /		/

Well Record

7163089		Lot 010	Conc 01	BURLINGTON CITY / HALTON				Flowing?					
Date	3/18/2011	Elev	120.9 (masl)	Easting	591121	Northing	4795020	SWL	2.7	(mbgs)	118.2	(masl)	
DD/MM/YYYY		/ Domestic		Water Supply		UTM RC	3	Pumping WL		(mbgs)		(masl)	
		Water Found	3.4 (mbgs)	117.6 (masl)	Untested	margin of error : 10 - 30 m			Pump Rate	13.6	(LPM)	6 / 0	
								Spec. Cap.		(LPM/m)	Hour / Minute		
		Casing Diameter	36 inch	Casing Material:	CONCRETE	Depth (m)	Elev (masl)						Soil Descriptions
		Top of Screen	(mbgs)	Bottom of Screen	(mbgs)	0.0	120.9	Color					
		Screen Interva	(m)										
						0.6	120.3	BROWN		TOPSOIL /		/	
						2.1	118.8	BROWN		CLAY /		/	
						3.4	117.6	RED		SAND /	SILT	/ LAYERED	
						8.4	112.5	RED		SHALE /		/ HARD	
7166963		Lot	Conc	BURLINGTON CITY / HALTON				Flowing?					
Date	6/20/2011	Elev	80.1 (masl)	Easting	590261	Northing	4793857	SWL		(mbgs)		(masl)	
DD/MM/YYYY		/ Test Hole		Test Hole		UTM RC	3	Pumping WL		(mbgs)		(masl)	
		Water Found	(mbgs)	(masl)		margin of error : 10 - 30 m			Pump Rate		(LPM)	/	
								Spec. Cap.		(LPM/m)	Hour / Minute		
		Casing Diameter	2 inch	Casing Material:	PLASTIC	Depth (m)	Elev (masl)						Soil Descriptions
		Top of Screen	7.6 (mbgs)	Bottom of Screen	4.6 (mbgs)	0.0	80.1	Color					
		Screen Interva	-3.0 (m)										
						6.1	74.0	BROWN		/		/	
						7.6	72.5	RED		FILL /		/ LOOSE	
										SILT /	CLAY	/ HARD	
7172021		Lot	Conc	WEST FLAMBOROUGH TOWNSHIP / WENTWORTH				Flowing?					
Date	11/3/2011	Elev	147.0 (masl)	Easting	588878	Northing	4794860	SWL		(mbgs)		(masl)	
DD/MM/YYYY		/				UTM RC	6	Pumping WL		(mbgs)		(masl)	
		Water Found	(mbgs)	(masl)		margin of error : 300 m - 1 km			Pump Rate		(LPM)	/	
								Spec. Cap.		(LPM/m)	Hour / Minute		
		Casing Diameter	75 inch	Casing Material:	CONCRETE	Depth (m)	Elev (masl)						Soil Descriptions
		Top of Screen	(mbgs)	Bottom of Screen	(mbgs)	0.0	147.0	Color					
		Screen Interva	(m)										
										/		/	
7173286		Lot	Conc	DUNDAS TOWN / WENTWORTH				Flowing?					
Date	12/18/2010	Elev	141.1 (masl)	Easting	588892	Northing	4794644	SWL		(mbgs)		(masl)	
DD/MM/YYYY		/				UTM RC	4	Pumping WL		(mbgs)		(masl)	
		Water Found	(mbgs)	(masl)		margin of error : 30 m - 100 m			Pump Rate		(LPM)	/	
								Spec. Cap.		(LPM/m)	Hour / Minute		
		Casing Diameter		Casing Material:		Depth (m)	Elev (masl)						Soil Descriptions
		Top of Screen	(mbgs)	Bottom of Screen	(mbgs)	0.0	141.1	Color					
		Screen Interva	(m)										
										/		/	
7178466		Lot 013	Conc 02	BURLINGTON CITY / HALTON				Flowing? N					
Date	7/2/2011	Elev	219.0 (masl)	Easting	588396	Northing	4795839	SWL	24.4	(mbgs)	194.6	(masl)	
DD/MM/YYYY		/ Domestic		Water Supply		UTM RC	4	Pumping WL	31.1	(mbgs)	187.9	(masl)	
		Water Found	29.6 (mbgs)	189.4 (masl)	FRESH	margin of error : 30 m - 100 m			Pump Rate	13.6	(LPM)	2 /	
								Spec. Cap.	2.03	(LPM/m)	Hour / Minute		
		Casing Diameter	5 inch	Casing Material:	STEEL	Depth (m)	Elev (masl)						Soil Descriptions
		Top of Screen	(mbgs)	Bottom of Screen	(mbgs)	0.0	219.0	Color					
		Screen Interva	(m)										

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					1.5	217.5	BROWN	CLAY /	STONES	/
					8.8	210.2	WHITE	LIMESTONE /		/ HARD
					14.0	205.0	BROWN	LIMESTONE /		/ LAYERED
					17.1	201.9	GREY	SHALE /		/
					20.7	198.3	RED	SHALE /		/
					25.3	193.7	GREY	SHALE /		/
					27.4	191.6	RED	SHALE /		/
					32.0	187.0	GREY	SHALE /		/

7179147	Lot	Conc	BURLINGTON CITY / HALTON								Flowing?		
Date	1/9/2012	Elev	150.3 (masl)	Easting	588969	Northing	4795199				SWL	(mbgs)	(masl)
DD/MM/YYYY			/			UTM RC	4	margin of error : 30 m - 100 m				Pumping WL	(mbgs) (masl)
		Water Found	(mbgs) (masl)									Pump Rate	(LPM) /
		Casing Diameter	6 inch	Casing Material:	PLASTIC			Depth (m)	Elev (masl)			Spec. Cap.	(LPM/m) Hour / Minute
		Top of Screen	(mbgs)	Bottom of Screen	(mbgs)			0.0	150.3	Color		Soil Descriptions	
		Screen Interva	(m)										

/ /

7179706	Lot	Conc	BURLINGTON CITY / HALTON								Flowing?	N	
Date	3/29/2012	Elev	218.3 (masl)	Easting	588412	Northing	4795840				SWL	18.7 (mbgs)	199.6 (masl)
DD/MM/YYYY			/ Domestic	Abandoned-Other		UTM RC	4	margin of error : 30 m - 100 m				Pumping WL	(mbgs) (masl)
		Water Found	(mbgs) (masl)									Pump Rate	(LPM) /
		Casing Diameter	5 inch	Casing Material:	STEEL			Depth (m)	Elev (masl)			Spec. Cap.	(LPM/m) Hour / Minute
		Top of Screen	(mbgs)	Bottom of Screen	(mbgs)			0.0	218.3	Color		Soil Descriptions	
		Screen Interva	(m)										

/ /

7188939	Lot	Conc	WEST FLAMBOROUGH TOWNSHIP / WENTWORTH								Flowing?		
Date	7/5/2012	Elev	146.3 (masl)	Easting	588957	Northing	4794899				SWL	(mbgs)	(masl)
DD/MM/YYYY			/			UTM RC	4	margin of error : 30 m - 100 m				Pumping WL	(mbgs) (masl)
		Water Found	(mbgs) (masl)									Pump Rate	(LPM) /
		Casing Diameter		Casing Material:				Depth (m)	Elev (masl)			Spec. Cap.	(LPM/m) Hour / Minute
		Top of Screen	(mbgs)	Bottom of Screen	(mbgs)			0.0	146.3	Color		Soil Descriptions	
		Screen Interva	(m)										

/ /

7200363	Lot	Conc	WEST FLAMBOROUGH TOWNSHIP / WENTWORTH								Flowing?		
Date	4/3/2013	Elev	119.5 (masl)	Easting	589567	Northing	4793990				SWL	(mbgs)	(masl)
DD/MM/YYYY			/ Monitoring	Observation Wells		UTM RC	4	margin of error : 30 m - 100 m				Pumping WL	(mbgs) (masl)
		Water Found	(mbgs) (masl)									Pump Rate	(LPM) /
		Casing Diameter	2 inch	Casing Material:	PLASTIC			Depth (m)	Elev (masl)			Spec. Cap.	(LPM/m) Hour / Minute
		Top of Screen	9.1 (mbgs)	Bottom of Screen	12.2 (mbgs)			0.0	119.5	Color		Soil Descriptions	
		Screen Interva	3.0 (m)										

2.4	117.1	BROWN	SAND /	TOPSOIL	/ STONES
7.9	111.6	RED	SHALE /	CLAY	/ WEATHERED
17.7	101.8	RED	SHALE /	CLAY	/ WEATHERED

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7200364		Lot	Conc	WEST FLAMBOROUGH TOWNSHIP / WENTWORTH				Flowing?				
Date	3/28/2013	Elev	106.0 (masl)	Easting	589833	Northing	4793903	SWL	(mbgs)	(masl)		
DD/MM/YYYY			/ Monitoring	Observation Wells		UTM RC	4	margin of error : 30 m - 100 m	Pumping WL	(mbgs)	(masl)	
		Water Found	(mbgs)	(masl)					Pump Rate	(LPM)	/	
									Spec. Cap.	(LPM/m)	Hour / Minute	
		Casing Diameter	2 inch	Casing Material:	PLASTIC	Depth (m)	Elev (masl)					
		Top of Screen	14.6 (mbgs)	Bottom of Screen	17.7 (mbgs)	0.0	106.0	Color		Soil Descriptions		
		Screen Interva	3.0 (m)									
						3.7	102.3	BROWN	SAND /	TOPSOIL	/	STONES
						8.5	97.5	RED	SHALE /	CLAY	/	WEATHERED
						17.7	88.3	RED	SHALE /	CLAY	/	WEATHERED
7200365		Lot	Conc	WEST FLAMBOROUGH TOWNSHIP / WENTWORTH				Flowing?				
Date	4/2/2013	Elev	119.8 (masl)	Easting	589521	Northing	4793970	SWL	(mbgs)	(masl)		
DD/MM/YYYY			/ Monitoring	Observation Wells		UTM RC	4	margin of error : 30 m - 100 m	Pumping WL	(mbgs)	(masl)	
		Water Found	(mbgs)	(masl)					Pump Rate	(LPM)	/	
									Spec. Cap.	(LPM/m)	Hour / Minute	
		Casing Diameter	2 inch	Casing Material:	PLASTIC	Depth (m)	Elev (masl)					
		Top of Screen	9.1 (mbgs)	Bottom of Screen	12.2 (mbgs)	0.0	119.8	Color		Soil Descriptions		
		Screen Interva	3.0 (m)									
						2.7	117.0	BROWN	SAND /	TOPSOIL	/	STONES
						8.2	111.5	RED	SHALE /	CLAY	/	WEATHERED
						14.6	105.1	RED	SHALE /	CLAY	/	WEATHERED
7200366		Lot	Conc	WEST FLAMBOROUGH TOWNSHIP / WENTWORTH				Flowing?				
Date	3/26/2013	Elev	121.6 (masl)	Easting	589468	Northing	4794125	SWL	(mbgs)	(masl)		
DD/MM/YYYY			/ Monitoring	Observation Wells		UTM RC	4	margin of error : 30 m - 100 m	Pumping WL	(mbgs)	(masl)	
		Water Found	(mbgs)	(masl)					Pump Rate	(LPM)	/	
									Spec. Cap.	(LPM/m)	Hour / Minute	
		Casing Diameter	2 inch	Casing Material:	PLASTIC	Depth (m)	Elev (masl)					
		Top of Screen	9.1 (mbgs)	Bottom of Screen	12.2 (mbgs)	0.0	121.6	Color		Soil Descriptions		
		Screen Interva	3.0 (m)									
						1.2	120.4	BROWN	SAND /	TOPSOIL	/	
						8.5	113.1	RED	SHALE /	CLAY	/	WEATHERED
						14.6	107.0	RED	SHALE /	CLAY	/	WEATHERED
7200367		Lot	Conc	DUNDAS TOWN / WENTWORTH				Flowing?				
Date	3/27/2013	Elev	116.2 (masl)	Easting	589589	Northing	4794022	SWL	(mbgs)	(masl)		
DD/MM/YYYY			/ Monitoring	Observation Wells		UTM RC	3	margin of error : 10 - 30 m	Pumping WL	(mbgs)	(masl)	
		Water Found	(mbgs)	(masl)					Pump Rate	(LPM)	/	
									Spec. Cap.	(LPM/m)	Hour / Minute	
		Casing Diameter	2 inch	Casing Material:	PLASTIC	Depth (m)	Elev (masl)					
		Top of Screen	7.6 (mbgs)	Bottom of Screen	9.8 (mbgs)	0.0	116.2	Color		Soil Descriptions		
		Screen Interva	2.1 (m)									
						2.1	114.1	BROWN	SAND /	TOPSOIL	/	STONES
						7.9	108.3	RED	SHALE /	CLAY	/	WEATHERED
						14.8	101.4	RED	SHALE /	CLAY	/	WEATHERED

Well Record

7201388		Lot	Conc	BURLINGTON CITY / HALTON						Flowing?					
Date	3/10/2013	Elev	124.6 (masl)	Easting	591725	Northing	4795968	SWL	(mbgs)	(masl)					
DD/MM/YYYY		/ Dewatering		UTM RC		4	margin of error : 30 m - 100 m	Pumping WL	(mbgs)	(masl)					
		Water Found	1.2 (mbgs)	123.4 (masl)				Pump Rate	(LPM)	/					
		Casing Diameter	10 cm	Casing Material:	PLASTIC	Depth (m)	Elev (masl)	Spec. Cap.	(LPM/m)	Hour / Minute					
		Top of Screen	12.0 (mbgs)	Bottom of Screen	15.0 (mbgs)	0.0	124.6	Color	Soil Descriptions						
		Screen Interva	3.0 (m)				15.0	109.6	BROWN	SAND /	/				
7207752		Lot	Conc	WEST FLAMBOROUGH TOWNSHIP / WENTWORTH						Flowing?					
Date		Elev	146.6 (masl)	Easting	588917	Northing	4794850	SWL	(mbgs)	(masl)					
DD/MM/YYYY		/ Abandoned-Other		UTM RC		4	margin of error : 30 m - 100 m	Pumping WL	(mbgs)	(masl)					
		Water Found	(mbgs)	(masl)				Pump Rate	(LPM)	/					
		Casing Diameter		Casing Material:		Depth (m)	Elev (masl)	Spec. Cap.	(LPM/m)	Hour / Minute					
		Top of Screen	(mbgs)	Bottom of Screen	(mbgs)	0.0	146.6	Color	Soil Descriptions						
		Screen Interva	(m)												
		/ /													
7207753		Lot	Conc	DUNDAS TOWN / WENTWORTH						Flowing?					
Date	7/25/2013	Elev	146.2 (masl)	Easting	588963	Northing	4794872	SWL	(mbgs)	(masl)					
DD/MM/YYYY		/		UTM RC		4	margin of error : 30 m - 100 m	Pumping WL	(mbgs)	(masl)					
		Water Found	(mbgs)	(masl)				Pump Rate	(LPM)	/					
		Casing Diameter		Casing Material:		Depth (m)	Elev (masl)	Spec. Cap.	(LPM/m)	Hour / Minute					
		Top of Screen	(mbgs)	Bottom of Screen	(mbgs)	0.0	146.2	Color	Soil Descriptions						
		Screen Interva	(m)												
		/ /													
7209771		Lot	009	Conc	01	BURLINGTON CITY / HALTON						Flowing?	N		
Date	10/7/2013	Elev	129.8 (masl)	Easting	591200	Northing	4795530	SWL	3.5 (mbgs)	126.3 (masl)					
DD/MM/YYYY		/ Domestic		Water Supply		UTM RC		4	margin of error : 30 m - 100 m	Pumping WL	5.0 (mbgs)	124.8 (masl)			
		Water Found	13.1 (mbgs)	116.7 (masl)	FRESH				Pump Rate	45.5 (LPM)	1 / 0				
		Casing Diameter	6 inch	Casing Material:	STEEL	Depth (m)	Elev (masl)	Spec. Cap.	30.86 (LPM/m)	Hour / Minute					
		Top of Screen	(mbgs)	Bottom of Screen	(mbgs)	0.0	129.8	Color	Soil Descriptions						
		Screen Interva	(m)				0.9	128.9	GREY	/	GRAVEL	/			
						4.0	125.8	RED	CLAY /	STONES	/				
						13.1	116.7	RED	SHALE /		/				
7211136		Lot	Conc	BURLINGTON CITY / HALTON						Flowing?					
Date	7/3/2013	Elev	124.6 (masl)	Easting	591977	Northing	4796043	SWL	(mbgs)	(masl)					
DD/MM/YYYY		/ Monitoring		Observation Wells		UTM RC		4	margin of error : 30 m - 100 m	Pumping WL	(mbgs)	(masl)			
		Water Found	(mbgs)	(masl)				Pump Rate	(LPM)	/					
		Casing Diameter	5 cm	Casing Material:	PLASTIC	Depth (m)	Elev (masl)	Spec. Cap.	(LPM/m)	Hour / Minute					
		Top of Screen	4.5 (mbgs)	Bottom of Screen	7.5 (mbgs)	0.0	124.6	Color	Soil Descriptions						
		Screen Interva	3.0 (m)				6.0	118.6	BROWN	CLAY /	SILT	/	HARD		
						7.5	117.1	RED	SHALE /	HARD	/				

7211137		BURLINGTON CITY / HALTON					Flowing?			
Date	7/3/2013	Elev	120.3 (masl)	Easting	592087	Northing	4796004	SWL	(mbgs)	(masl)
DD/MM/YYYY		/ Monitoring	Observation Wells	UTM RC	4	margin of error : 30 m - 100 m			Pumping WL	(mbgs) (masl)
		Water Found	(mbgs) (masl)					Pump Rate	(LPM)	/
								Spec. Cap.	(LPM/m)	Hour / Minute
		Casing Diameter	5 cm	Casing Material:	PLASTIC	Depth (m)	Elev (masl)			
		Top of Screen	3.0 (mbgs)	Bottom of Screen	6.0 (mbgs)	0.0	120.3	Color	Soil Descriptions	
		Screen Interva	3.0 (m)							
						1.5	118.8	BROWN	CLAY /	SILT / PACKED
						6.0	114.3	RED	SHALE /	HARD /

7215882		WEST FLAMBOROUGH TOWNSHIP / WENTWORTH						Flowing?		
Date	11/29/2013	Elev	146.7 (masl)	Easting	588921	Northing	4794915	SWL	(mbgs)	(masl)
DD/MM/YYYY		/		Abandoned-Other		UTM RC	4	Pumping WL	(mbgs)	(masl)
Water Found		(mbgs)	(masl)	margin of error : 30 m - 100 m				Pump Rate	(LPM)	/
Casing Diameter		Casing Material:		Depth (m)		Elev (masl)		Spec. Cap.	(LPM/m)	Hour / Minute
Top of Screen		(mbgs)	Bottom of Screen	(mbgs)		0.0		146.7		Color
Screen Interva		(m)								Soil Descriptions

7218499		Lot	Conc		WEST FLAMBOROUGH TOWNSHIP / WENTWORTH				Flowing?	
Date	2/19/2014	Elev	140.5 (masl)		Easting	588946	Northing	4794627	Pumping WL	SWL
DD/MM/YYYY		/ Test Hole		Test Hole	UTM RC		4	margin of error : 30 m - 100 m		(mbgs) (masl)
Water Found		(mbgs)		(masl)						
Casing Diameter		2	inch	Casing Material:		PLASTIC		Depth (m)	Elev (masl)	
Top of Screen		4.6	(mbgs)	Bottom of Screen		1.5	(mbgs)	0.0	140.5	Color
Screen Interva		-3.0	(m)							Soil Descriptions

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7219208									
Date	3/25/2014	Elev	99.5 (masl)	Easting	589966	Northing	4793606	Flowing?	
DD/MM/YYYY		/ Monitoring	Observation Wells	UTM RC	4	margin of error : 30 m - 100 m		SWL	(mbgs) (masl)
Water Found	20.7 (mbgs)		78.8 (masl)	Untested				Pumping WL	(mbgs) (masl)
Casing Diameter	2 inch	Casing Material:	PLASTIC			Depth (m)	Elev (masl)	Pump Rate	(LPM) /
Top of Screen	19.8 (mbgs)	Bottom of Screen	21.3 (mbgs)			0.0	99.5	Spec. Cap.	(LPM/m) Hour / Minute
Screen Interva	1.5 (m)								
						9.1	90.4	BROWN	SAND / / SAND
						12.8	86.7	GREY	CLAY / /
						21.3	78.2	RED	CLAY / /

7219209									
Date	3/24/2014	Elev	99.6 (masl)	Easting	589958	Northing	4793557	Flowing?	
DD/MM/YYYY		/ Monitoring	Observation Wells	UTM RC	4	margin of error : 30 m - 100 m		SWL	(mbgs) (masl)
Water Found	12.5 (mbgs)		87.1 (masl)	Untested				Pumping WL	(mbgs) (masl)
Casing Diameter	2 inch	Casing Material:	PLASTIC			Depth (m)	Elev (masl)	Pump Rate	(LPM) /
Top of Screen	12.2 (mbgs)	Bottom of Screen	14.3 (mbgs)			0.0	99.6	Spec. Cap.	(LPM/m) Hour / Minute
Screen Interva	2.1 (m)								
						9.1	90.4	BROWN	SAND / / SAND
						12.8	86.8	GREY	CLAY / /
						14.3	85.2	RED	CLAY / /

7219210									
Date	3/24/2014	Elev	99.0 (masl)	Easting	589916	Northing	4793582	Flowing?	
DD/MM/YYYY		/ Monitoring	Observation Wells	UTM RC	4	margin of error : 30 m - 100 m		SWL	(mbgs) (masl)
Water Found	12.8 (mbgs)		86.2 (masl)	Untested				Pumping WL	(mbgs) (masl)
Casing Diameter	2 inch	Casing Material:	PLASTIC			Depth (m)	Elev (masl)	Pump Rate	(LPM) /
Top of Screen	12.2 (mbgs)	Bottom of Screen	14.3 (mbgs)			0.0	99.0	Spec. Cap.	(LPM/m) Hour / Minute
Screen Interva	2.1 (m)								
						9.1	89.9	BROWN	SAND / / SAND
						12.8	86.2	GREY	CLAY / /
						14.3	84.7	RED	CLAY / /

7219211									
Date	3/25/2014	Elev	98.6 (masl)	Easting	589922	Northing	4793623	Flowing?	
DD/MM/YYYY		/ Monitoring	Observation Wells	UTM RC	4	margin of error : 30 m - 100 m		SWL	(mbgs) (masl)
Water Found	20.4 (mbgs)		78.2 (masl)	Untested				Pumping WL	(mbgs) (masl)
Casing Diameter	2 inch	Casing Material:	PLASTIC			Depth (m)	Elev (masl)	Pump Rate	(LPM) /
Top of Screen	19.2 (mbgs)	Bottom of Screen	20.7 (mbgs)			0.0	98.6	Spec. Cap.	(LPM/m) Hour / Minute
Screen Interva	1.5 (m)								
						9.1	89.5	BROWN	SAND / / SAND
						12.8	85.8	GREY	CLAY / /
						20.7	77.9	RED	CLAY / /

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7225688	Lot	Conc	HAMILTON CITY / WENTWORTH				Flowing?		
Date 8/7/2014	Elev	99.0 (masl)	Easting 589960	Northing 4793627			SWL	(mbgs)	(masl)
DD/MM/YYYY	/		Abandoned-Other	UTM RC 3	margin of error : 10 - 30 m		Pumping WL	(mbgs)	(masl)
	Water Found	15.3 (mbgs)	83.7 (masl)				Pump Rate	(LPM)	/
	Casing Diameter		Casing Material:		Depth (m)	Elev (masl)	Spec. Cap.	(LPM/m)	Hour / Minute
	Top of Screen	(mbgs)	Bottom of Screen	(mbgs)	0.0	99.0	Color	Soil Descriptions	
	Screen Interva	(m)						/	/
7225941	Lot	Conc	WEST FLAMBOROUGH TOWNSHIP / WENTWORTH				Flowing?		
Date 7/29/2014	Elev	146.5 (masl)	Easting 588938	Northing 4794878			SWL	(mbgs)	(masl)
DD/MM/YYYY	/		Abandoned-Other	UTM RC 4	margin of error : 30 m - 100 m		Pumping WL	(mbgs)	(masl)
	Water Found	(mbgs)	(masl)				Pump Rate	(LPM)	/
	Casing Diameter		Casing Material:		Depth (m)	Elev (masl)	Spec. Cap.	(LPM/m)	Hour / Minute
	Top of Screen	(mbgs)	Bottom of Screen	(mbgs)	0.0	146.5	Color	Soil Descriptions	
	Screen Interva	(m)						/	/
7226064	Lot	Conc	WEST FLAMBOROUGH TOWNSHIP / WENTWORTH				Flowing?		
Date 7/29/2014	Elev	146.4 (masl)	Easting 588947	Northing 4794873			SWL	(mbgs)	(masl)
DD/MM/YYYY	/		Abandoned-Other	UTM RC 4	margin of error : 30 m - 100 m		Pumping WL	(mbgs)	(masl)
	Water Found	(mbgs)	(masl)				Pump Rate	(LPM)	/
	Casing Diameter		Casing Material:		Depth (m)	Elev (masl)	Spec. Cap.	(LPM/m)	Hour / Minute
	Top of Screen	(mbgs)	Bottom of Screen	(mbgs)	0.0	146.4	Color	Soil Descriptions	
	Screen Interva	(m)						/	/
7230099	Lot	Conc	WEST FLAMBOROUGH TOWNSHIP / WENTWORTH				Flowing?		
Date 10/9/2014	Elev	99.4 (masl)	Easting 589951	Northing 4793548			SWL	(mbgs)	(masl)
DD/MM/YYYY	/		Abandoned-Other	UTM RC 4	margin of error : 30 m - 100 m		Pumping WL	(mbgs)	(masl)
	Water Found	16.6 (mbgs)	82.8 (masl)	Untested			Pump Rate	(LPM)	/
	Casing Diameter		Casing Material:		Depth (m)	Elev (masl)	Spec. Cap.	(LPM/m)	Hour / Minute
	Top of Screen	(mbgs)	Bottom of Screen	(mbgs)	0.0	99.4	Color	Soil Descriptions	
	Screen Interva	(m)						/	/
7230100	Lot	Conc	WEST FLAMBOROUGH TOWNSHIP / WENTWORTH				Flowing?		
Date 10/9/2014	Elev	99.1 (masl)	Easting 589914	Northing 4793600			SWL	(mbgs)	(masl)
DD/MM/YYYY	/		Abandoned-Other	UTM RC 4	margin of error : 30 m - 100 m		Pumping WL	(mbgs)	(masl)
	Water Found	13.3 (mbgs)	85.8 (masl)	Untested			Pump Rate	(LPM)	/
	Casing Diameter		Casing Material:		Depth (m)	Elev (masl)	Spec. Cap.	(LPM/m)	Hour / Minute
	Top of Screen	(mbgs)	Bottom of Screen	(mbgs)	0.0	99.1	Color	Soil Descriptions	
	Screen Interva	(m)			15.0	84.1	OTHER /	/	/

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7230101									
Lot	Conc	WEST FLAMBOROUGH TOWNSHIP / WENTWORTH						Flowing?	
Date	10/9/2014	Elev	98.4 (masl)	Easting	589929	Northing	4793627	SWL	(mbgs) (masl)
DD/MM/YYYY			/	Abandoned-Other		UTM RC	4	margin of error : 30 m - 100 m	
Water Found	16.4 (mbgs)		82.0 (masl)	Untested				Pumping WL	(mbgs) (masl)
Casing Diameter		Casing Material:		Depth (m)	0.0	Elev (masl)	98.4	Pump Rate	(LPM) /
Top of Screen	(mbgs)	Bottom of Screen	(mbgs)			Color		Spec. Cap.	(LPM/m) Hour / Minute
Screen Interva	(m)								Soil Descriptions
					22.0		76.4		OTHER / /
7253098									
Lot	027	Conc	02	WEST FLAMBOROUGH TOWNSHIP / WENTWORTH					
Date	9/29/2015	Elev	146.6 (masl)	Easting	588912	Northing	4794852	Flowing?	
DD/MM/YYYY			/ Monitoring			UTM RC	4	margin of error : 30 m - 100 m	
Water Found	(mbgs)		(masl)					SWL	(mbgs) (masl)
Casing Diameter	2 inch	Casing Material:	PLASTIC	Depth (m)	0.0	Elev (masl)	146.6	Pumping WL	(mbgs) (masl)
Top of Screen	12.8 (mbgs)	Bottom of Screen	11.3 (mbgs)			Color		Pump Rate	(LPM) /
Screen Interva	-1.5 (m)							Spec. Cap.	(LPM/m) Hour / Minute
					4.6		142.1		BROWN
					12.2		134.5		BROWN
					13.7		132.9		RED
									CLAY / SILT / DENSE
									SILT / CLAY / HARD
									SHALE / SILT / WEATHERED
7258423									
Lot		Conc		BURLINGTON CITY / HALTON					
Date	11/23/2015	Elev	95.4 (masl)	Easting	591783	Northing	4795530	Flowing?	
DD/MM/YYYY			/ Monitoring	Observation Wells		UTM RC	4	margin of error : 30 m - 100 m	
Water Found	(mbgs)		(masl)					SWL	(mbgs) (masl)
Casing Diameter	5 cm	Casing Material:	PLASTIC	Depth (m)	0.0	Elev (masl)	95.4	Pumping WL	(mbgs) (masl)
Top of Screen	1.5 (mbgs)	Bottom of Screen	3.0 (mbgs)			Color		Pump Rate	(LPM) /
Screen Interva	1.5 (m)							Spec. Cap.	(LPM/m) Hour / Minute
					0.6		94.8		FILL / /
					3.0		92.4		/ SILT /
					6.1		89.3		RED / SHALE /
7262597									
Lot		Conc		BURLINGTON CITY / HALTON					
Date	10/30/2012	Elev	100.7 (masl)	Easting	592087	Northing	4795209	Flowing?	
DD/MM/YYYY			/			UTM RC	4	margin of error : 30 m - 100 m	
Water Found	(mbgs)		(masl)					SWL	(mbgs) (masl)
Casing Diameter		Casing Material:		Depth (m)	0.0	Elev (masl)	100.7	Pumping WL	(mbgs) (masl)
Top of Screen	(mbgs)	Bottom of Screen	(mbgs)			Color		Pump Rate	(LPM) /
Screen Interva	(m)							Spec. Cap.	(LPM/m) Hour / Minute
									/ /
7289487									
Lot		Conc		BURLINGTON CITY / HALTON					
Date	6/13/2017	Elev	130.3 (masl)	Easting	589549	Northing	4794488	Flowing?	
DD/MM/YYYY			/ Monitoring	Observation Wells		UTM RC	4	margin of error : 30 m - 100 m	
Water Found	0.0 (mbgs)		130.3 (masl)	Untested				SWL	(mbgs) (masl)
Casing Diameter	0.8 inch	Casing Material:	PLASTIC	Depth (m)	0.0	Elev (masl)	130.3	Pumping WL	(mbgs) (masl)
Top of Screen	4.6 (mbgs)	Bottom of Screen	7.6 (mbgs)			Color		Pump Rate	(LPM) /
Screen Interva	3.0 (m)							Spec. Cap.	(LPM/m) Hour / Minute
					0.6		129.7		FILL / /

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					3.0	127.3	RED		CLAY /	TILL	/
					7.6	122.7	RED		SHALE /		/
7289488	Lot	Conc	BURLINGTON CITY / HALTON					Flowing?			
Date	6/12/2017	Elev	130.0 (masl)	Easting	589485	Northing	4794469	SWL	(mbgs)	(masl)	
DD/MM/YYYY		/ Monitoring	Observation Wells	UTM RC	4	margin of error : 30 m - 100 m		Pumping WL	(mbgs)	(masl)	
	Water Found	6.7 (mbgs)	123.3 (masl)	Untested				Pump Rate	(LPM)	/	
								Spec. Cap.	(LPM/m)	Hour / Minute	
	Casing Diameter	0.8 inch	Casing Material:	PLASTIC		Depth (m)	Elev (masl)				
	Top of Screen	4.6 (mbgs)	Bottom of Screen	7.6 (mbgs)		0.0	130.0	Color		Soil Descriptions	
	Screen Interva	3.0 (m)									
						0.6	129.4		FILL /		/
						3.0	126.9	RED	CLAY /	TILL	/
						7.6	122.4	RED	SHALE /		/
7290230	Lot	Conc	HAMILTON CITY / WENTWORTH					Flowing? N			
Date	6/6/2017	Elev	104.6 (masl)	Easting	589987	Northing	4793240	SWL	18.3 (mbgs)	86.3 (masl)	
DD/MM/YYYY		/ Monitoring	Observation Wells	UTM RC	4	margin of error : 30 m - 100 m		Pumping WL	(mbgs)	(masl)	
	Water Found	(mbgs)	(masl)					Pump Rate	(LPM)	/	
								Spec. Cap.	(LPM/m)	Hour / Minute	
	Casing Diameter	1 inch	Casing Material:	PLASTIC		Depth (m)	Elev (masl)				
	Top of Screen	18.3 (mbgs)	Bottom of Screen	21.3 (mbgs)		0.0	104.6	Color		Soil Descriptions	
	Screen Interva	3.0 (m)									
						1.2	103.4	BROWN	SAND /	GRAVEL	/ PACKED
						21.3	83.3	BROWN	SAND /		/ LOOSE
7290231	Lot	Conc	HAMILTON CITY / WENTWORTH					Flowing? N			
Date	6/24/2017	Elev	97.3 (masl)	Easting	589995	Northing	4793171	SWL	4.6 (mbgs)	92.7 (masl)	
DD/MM/YYYY		/ Monitoring	Observation Wells	UTM RC	4	margin of error : 30 m - 100 m		Pumping WL	(mbgs)	(masl)	
	Water Found	4.6 (mbgs)	92.7 (masl)					Pump Rate	(LPM)	/	
								Spec. Cap.	(LPM/m)	Hour / Minute	
	Casing Diameter	1 inch	Casing Material:	PLASTIC		Depth (m)	Elev (masl)				
	Top of Screen	9.1 (mbgs)	Bottom of Screen	10.7 (mbgs)		0.0	97.3	Color		Soil Descriptions	
	Screen Interva	1.5 (m)									
						3.7	93.7	BLACK	FILL /	SAND	/ CLAY
						10.7	86.6	GREY	SAND /	SILT	/ DENSE
7302885	Lot	Conc	BURLINGTON CITY / HALTON					Flowing?			
Date	11/17/2017	Elev	(masl)	Easting	591706	Northing	4796001	SWL	(mbgs)	(masl)	
DD/MM/YYYY		/ Monitoring	Observation Wells	UTM RC	4	margin of error : 30 m - 100 m		Pumping WL	(mbgs)	(masl)	
	Water Found	(mbgs)	(masl)					Pump Rate	(LPM)	/	
								Spec. Cap.	(LPM/m)	Hour / Minute	
	Casing Diameter	0.8 inch	Casing Material:	PLASTIC		Depth (m)	Elev (masl)				
	Top of Screen	4.6 (mbgs)	Bottom of Screen	6.1 (mbgs)		0.0		Color		Soil Descriptions	
	Screen Interva	1.5 (m)									
						1.5		BROWN	SAND /	GRAVEL	/
						3.0		RED	TILL /		/
						4.6		RED	TILL /	CLAY	/
						7.6		RED	TILL /	HARD	/
						9.1		RED	SHALE /	TILL	/

7307445		Lot 013		Conc 03		EAST FLAMBOROUGH TOWNSHIP / WENTWORTH				Flowing?	
Date	1/26/2018	Elev (masl)		Easting 588317		Northing 4795906		SWL (mbgs) (masl)			
DD/MM/YYYY		Monitoring / Test Hole		Monitoring and Test Hole		UTM RC 4		margin of error : 30 m - 100 m		Pumping WL (mbgs) (masl)	
		Water Found (mbgs)		(masl)						Pump Rate (LPM) /	
										Spec. Cap. (LPM/m) Hour / Minute	
		Casing Diameter 2 inch		Casing Material: PLASTIC		Depth (m) 0.0		Elev (masl)		Color	
		Top of Screen 1.2 (mbgs)		Bottom of Screen 2.4 (mbgs)						Soil Descriptions	
		Screen Interva 1.2 (m)									
						2.4		BROWN		CLAY /	

7318262		Lot		Conc		BURLINGTON CITY / HALTON				Flowing?			
Date	8/29/2018	Elev	(masl)	Easting	591603	Northing	4795584	SWL	3.8	(mbgs)	(masl)		
DD/MM/YYYY		/ Domestic		Alteration		UTM RC 4		Pumping WL	4.3	(mbgs)	(masl)		
		Water Found	(mbgs)	(masl)		FRESH		Pump Rate	36.4	(LPM)	1 /		
		Casing Diameter	6 inch	Casing Material:	STEEL	Depth (m)		Elev (masl)	Spec. Cap.	79.55	(LPM/m)	Hour / Minute	
		Top of Screen	(mbgs)	Bottom of Screen	(mbgs)	0.0		Color	Soil Descriptions				
		Screen Interva	(m)										

7322653		Lot		Conc		BURLINGTON CITY / HALTON				Flowing?			
Date	10/18/2018	Elev	(masl)	Easting	588944	Northing	4795367	SWL	10.1	(mbgs)	(masl)		
	DD/MM/YYYY		/ Domestic	Water Supply		UTM RC	4	Pumping WL	41.5	(mbgs)	(masl)		
		Water Found	27.4 (mbgs)	(masl)		Untested		Pump Rate	45.5	(LPM)		1 /	
								Spec. Cap.	1.45	(LPM/m)		Hour / Minute	
		Casing Diameter	6 inch	Casing Material:	STEEL		Depth (m)	Elev (masl)					
							0.0						
		Top of Screen	(mbgs)	Bottom of Screen	(mbgs)								
		Screen Interva	(m)										
							7.3	BROWN		CLAY /		/	
							15.2	BROWN		CLAY /	STONES	/	
							19.2	RED		CLAY /		/	
							21.9	RED		CLAY /	STONES	/	
							24.4	GREY		LIMESTONE /		/	
							43.3	RED		SHALE /		/	

7333847		BURLINGTON CITY / HALTON						Flowing?			
Date	3/18/2019	Elev	(masl)	Easting	592433	Northing	4795482	SWL	(mbgs)	(masl)	
DD/MM/YYYY		/ Monitoring and Te Monitoring and Test Hole						Pumping WL	(mbgs)	(masl)	
		Water Found	(mbgs)	(masl)	UTM RC 4 margin of error : 30 m - 100 m			Pump Rate	(LPM)	/	
		Casing Diameter	2 Inch	Casing Material:	PLASTIC	Depth (m)	Elev (masl)	Spec. Cap.	(LPM/m)	Hour / Minute	
		Top of Screen	1.5 (mbgs)	Bottom of Screen	4.6 (mbgs)	0.0		Color	Soil Descriptions		
		Screen Interva	3.0 (m)								
						1.2	BLACK	OTHER /	/		
						4.6	BROWN	SILT / SAND	/		

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7333848		Lot	Conc	BURLINGTON CITY / HALTON				Flowing?				
Date	3/18/2019	Elev	(masl)	Easting	592416	Northing	4795469	SWL	(mbgs)	(masl)		
DD/MM/YYYY		/ Monitoring and Te		Monitoring and Test Hole		UTM RC	4	margin of error : 30 m - 100 m		Pumping WL	(mbgs)	(masl)
		Water Found	(mbgs)		(masl)			Pump Rate	(LPM)	/		
		Casing Diameter	2 Inch	Casing Material:	PLASTIC	Depth (m)		Elev (masl)		Spec. Cap.	(LPM/m)	Hour / Minute
		Top of Screen	1.5 (mbgs)	Bottom of Screen	4.6 (mbgs)			Color		Soil Descriptions		
		Screen Interva	3.0 (m)									
						1.2		BLACK	OTHER /	/		
						4.6		BROWN	SILT /	SAND	/	
7333849		Lot	Conc	BURLINGTON CITY / HALTON				Flowing?				
Date	3/18/2019	Elev	(masl)	Easting	592492	Northing	4795440	SWL	(mbgs)	(masl)		
DD/MM/YYYY		/ Monitoring and Te		Monitoring and Test Hole		UTM RC	4	margin of error : 30 m - 100 m		Pumping WL	(mbgs)	(masl)
		Water Found	(mbgs)		(masl)			Pump Rate	(LPM)	/		
		Casing Diameter	2 Inch	Casing Material:	PLASTIC	Depth (m)		Elev (masl)		Spec. Cap.	(LPM/m)	Hour / Minute
		Top of Screen	1.5 (mbgs)	Bottom of Screen	4.6 (mbgs)			Color		Soil Descriptions		
		Screen Interva	3.0 (m)									
						1.2		BLACK	OTHER /	/		
						4.6		BROWN	SILT /	SAND	/	
7338941		Lot	011	Conc	01	BURLINGTON CITY / HALTON				Flowing?	N	
Date	7/1/2019	Elev	(masl)	Easting	590648	Northing	4794608	SWL	12.6	(mbgs)	(masl)	
DD/MM/YYYY		/ Domestic		Water Supply		UTM RC	4	margin of error : 30 m - 100 m		Pumping WL	17.0	(mbgs)
		Water Found	13.7 (mbgs)		(masl)	FRESH		Pump Rate	45.5	(LPM)	1 / 0	
		Casing Diameter	6 Inch	Casing Material:	STEEL	Depth (m)		Elev (masl)		Spec. Cap.	(LPM/m)	Hour / Minute
		Top of Screen	(mbgs)	Bottom of Screen	(mbgs)			Color		Soil Descriptions		
		Screen Interva	(m)									
						7.9		RED	SAND /	/	LOOSE	
						12.5		RED	CLAY /	/	DENSE	
						17.0		RED	SHALE /	/	ROCK	
7339334		Lot	Conc	DUNDAS TOWN / WENTWORTH				Flowing?				
Date	6/5/2019	Elev	(masl)	Easting	589356	Northing	4794070	SWL	(mbgs)	(masl)		
DD/MM/YYYY		/ Monitoring		Observation Wells		UTM RC	4	margin of error : 30 m - 100 m		Pumping WL	(mbgs)	(masl)
		Water Found	(mbgs)		(masl)			Pump Rate	(LPM)	/		
		Casing Diameter	4 inch	Casing Material:	STEEL	Depth (m)		Elev (masl)		Spec. Cap.	(LPM/m)	Hour / Minute
		Top of Screen	9.1 (mbgs)	Bottom of Screen	12.2 (mbgs)			Color		Soil Descriptions		
		Screen Interva	3.0 (m)									
						1.5		BROWN	FILL /	/	FILL	
						2.4		BROWN	CLAY /	SILT	/	
						12.2		GREY	SHALE /	/	SHALE	

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7339335		Lot	Conc		DUNDAS TOWN / WENTWORTH						Flowing?															
Date	6/5/2019	Elev	(masl)	Easting	589473	Northing	4794016	Pumping WL	SWL	(mbgs)	(masl)															
												DD/MM/YYYY	/ Monitoring	Observation Wells	UTM RC	4	margin of error : 30 m - 100 m	Pump Rate	(LPM)	/						
																					Water Found	(mbgs)	(masl)	Spec. Cap.	(LPM/m)	Hour / Minute
Casing Diameter	4	inch	Casing Material:	STEEL	Depth (m)	Elev (masl)	Color	Soil Descriptions																		
Top of Screen	8.5	(mbgs)	Bottom of Screen	11.6	(mbgs)	0.0	Color	Soil Descriptions																		
Screen Interva	3.0	(m)																								