

# Hydrogeological Existing Conditions Report

# Proposed Residential Development

5993 & 6115 Flewellyn Road & 6030 & 6070 Fernbank Road

Ottawa, Ontario

Prepared for Caivan (Stittsville South) Inc. & Caivan (Stittsville West) Ltd.

Report PH4625-REP.01 dated June 22, 2023



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#### 1.0 Introduction

Paterson Group (Paterson) was retained by Caivan (Stittsville South) Inc. and Caivan (Stittsville West) Ltd. to complete a hydrogeological study for the proposed residential development to be located at 5993 and 6115 Flewellyn Road and 6030 and 6070 Fernbank Road, in the City of Ottawa, Ontario (hereinafter referred to as the "subject site").

The purpose of this report is to characterize the hydrogeological setting of the subject site, with respect to bedrock and surficial geology, aquifers, aquitards, horizontal and vertical flow patterns, existing groundwater use, and aquifer vulnerability, in support of the 5993 and 6115 Flewellyn Road and 6030 and 6070 Fernbank Road Community Urban Expansion.

## 1.1 Scope of Work

Paterson has completed this report in accordance with Sub-section 4.2 of the finalized Geotechnical and Hydrogeological Investigation Terms of Reference (GHI TOR), prepared for the City of Ottawa and the Rideau Valley conservation Authority (RVCA). As per the GHI TOR, the purpose of the hydrogeological study is to assist in maintaining the current hydrogeologic function of the subject site. As per the GHI TOR, the study will provide a summary of existing hydrogeological conditions and identify the following:

	Hydraulic conductivities and aquifer characteristics;
	Groundwater levels and seasonal fluctuations;
	Hydraulic gradients;
	Delineation of the aquifer;
	Vulnerability of aquifers encountered;
	Zones of influence for potential dewatering;
	Water supply wells and the potential risk of impacts to these wells from the proposed development;
	Sites identified by environmental site assessments as potential sources of groundwater contamination;
	Key locations to conduct sampling and monitoring of baseline groundwater quality (i.e. Subdivision Packages, PHC's, BTEX and VOC's);
П	Recharge/potential infiltration areas and mitigation measures



# 2.0 Previous Reports

In addition to a review of the general literature in the following sections and in the 'References' section of this report (MECP water well database, available geological and physiographic mapping, City of Ottawa Official Plan), Paterson reviewed the following reports:

	The Jock River - Reach Two Subwatershed - Phase 1 Report (Marshall
	Macklin Monaghan Limited and WESA, 2009)
	Paterson Geotechnical Report PG5570-2.REV.01 - Flewellyn Road -
	(February 2022)
	Paterson Geotechnical Report PG2802-1 - Maguire Lands - Hartsmere Drive
	(November 2012) - As part of D07-16-13-0033.
П	Paterson Geotechnical Report PG2853-1 - Proposed Residential
_	Development - Stittsville Main Street (January 2013) - As part of D07-16-13-
	0033.
_	
Ц	Paterson Geotechnical Report PG2983-1 - Faulkner Lands - Fernbank Road
	at Main Street (July 2013) - As part of D07-16-13-0033.
	Houle Chevrier Engineering - Technical Memorandum - Hydrogeological Study
	- (D007-16-13-0033) - Area 6, Stittsville South (April 2015) - As part of D07-
	16-13-0033.
	Houle Chevrier Engineering - Report on Private Well Monitoring Program
	Stittsville South Residential Development and Stormwater Management Pond
	- (November 2015) - As part of D07-16-15-0008.
	(11010111001 2010) 110 part of 201 10 10 0000.



# 3.0 Method of Investigation

#### 3.1 Records Review

A review of available physiographic, geological, and hydrogeological data was completed as a part of this assessment. As discussed above, the literature review and previous reports provided a regional overview regarding the overburden and bedrock aquifers that included the subject site. Further detail is provided in following sections.

#### 3.2 Field Program

A field program was developed to assess geology, groundwater conditions, and hydraulic gradients in the overburden and bedrock at the subject site. The test holes were advanced to various depths at the subject site to assess hydrogeological conditions at the approximate depth of the proposed construction activities at the site. A supplemental field program was performed to provide additional hydraulic properties of the surficial soils and bedrock at the subject site.

The initial field programs were carried out between November 2020 and January 2022. At that time, a total of thirty-eight (38) boreholes and eighteen (18) test pits were advanced to a maximum depth of 10.2 m below ground surface (bgs).

A supplemental field program was completed between September to October 2022 consisted of advancing seven (7) boreholes and one (1) hand auger hole to a maximum depth of 9.1 m bgs, completing permeameter tests at twelve (12) locations across the subject site, installing data loggers and slug testing the monitoring well installations. A total of twenty-four (24) Pask Permeameter tests were conducted at 12 testing locations across the subject site at depths between 0.3 to 0.6 m bgs.

The test holes for both field investigations were distributed in a manner to provide general coverage of the subject site.

Of the test holes completed on site, fourteen (14) were instrumented with monitoring wells. The test hole locations are shown on Drawing PG5570-1.REV.03 - Test Hole Location Plan, located in Appendix 2.

The initial field program was completed between November 2020 to January 2022 and the supplemental program was completed between September to October 2022. The boreholes were advanced using a low clearance drill rig operated by a two-person crew while the test pits were advanced using a hydraulic shovel excavator. Both drilling and excavating occurred under full-time supervision of Paterson personnel. Soil samples were obtained from test holes by means of grab sampling, split spoon or the sampling of shallow soils directly from auger flights. Split spoon samples were taken at approximate 0.76 m intervals. In addition to soil



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sampling, rock core samples were obtained with the use of a standard diamond drill bit. The depths at which grab, split spoon, auger flight and rock core samples were obtained from the test holes are shown as "G", "SS", "AU" and "RC" respectively on the Soil Profile and Test Data Sheets, appended to this report in Appendix 2.

The Standard Penetration Test (SPT) was conducted in conjunction with the recovery of the split-spoon samples. The SPT results are recorded as "N" values on the Soil Profile and Test Data sheets. The "N" value is the number of blows required to drive the split-spoon sampler 300 mm into the soil after a 150 mm initial penetration using a 63.5 kg hammer falling from a height of 760 mm.

All soil samples were classified on site, placed in sealed plastic bags and were transported to our laboratory for further review and testing. Transportation of the samples was completed in accordance with ASTM D4220-95 (2007) - Standard Practice for Preserving and Transporting Soil Samples.

Rock core samples were recovered from select boreholes (BH1-21, BH2-21, BH3-21, BH22A-21, BH24-21, BH33-21, BH34-21, BH1-22, BH2-22, BH3-22, BH4-22 and BH5-22) drilled during the geotechnical investigations using a core barrel and diamond drilling techniques. The bedrock samples were classified on site, placed in hard cardboard core boxes and transported to Paterson's laboratory.

The recovery value and a Rock Quality Designation (RQD) value were calculated for each drilled section of bedrock and are presented on the borehole logs. The recovery value is the length of the bedrock sample recovered over the length of the drilled section. The RQD value is the total length of intact rock pieces longer than 100 mm over the length of the core run. The values indicate the bedrock quality.

Subsurface conditions observed in the test holes were recorded in detail in the field. Reference should be made to the Soil Profile and Test Data sheets presented in Appendix 2 for specific details of the soil profile encountered at the test hole locations.

# 3.3 Laboratory Testing

All soil samples were retained for laboratory review following the field portion of the subsurface investigation. The soils were classified in general accordance with ASTM D2488-09a, Standard Practice for Description and Identification of Soils (Visual-Manual Procedure).

A total of 8 split spoon samples were submitted for grain size analyses from the initial investigation. A total of 2 split spoon samples and 2 grab samples were submitted for resistivity, pH, sulphate and chloride analyses. The supplemental investigation included an additional 4 aggregated surficial soil samples that were



submitted for grain size analyses. The testing was performed in general accordance with ASTM C117 Test Method for Materials Finer Than 75-m (No. 200) Sieve in Mineral Aggregates and Washing and ASTM C136 - Test Method for Sieve Analysis of Fine and Coarse Aggregates. Grain size analysis results are appended to this report. Based on the soil descriptions encountered across the subject site during the various geotechnical and hydrogeological investigations and based on the spatial distribution of the above-noted samples, these samples are considered to be sufficiently representative of the subject site. Grain size, resistivity, pH, sulphate and chloride analyses can be found in Appendix 2.

#### 3.4 Monitoring Well Installation

A total of 13 groundwater monitoring wells were installed by George Downing Estate Drilling of Hawkesbury, Ontario under the full-time supervision of Paterson personnel. The monitoring wells consisted of 51 mm diameter Schedule 40 threaded PVC risers and screens. A sand pack consisting of silica sand was placed around the screen, and a bentonite seal was placed above the screen and extended to ground surface to minimize cross-contamination.

An additional shallow groundwater monitor was installed using a hand auger to measure shallow overburden water levels at the west side of the subject site.

Monitoring well construction details are provided on the Soil Profile and Test Data Sheets appended to this report.

#### 3.5 Piezometer Installation

Flexible polyethylene standpipes were installed in select boreholes to permit the monitoring of groundwater levels subsequent to the completion of the initial field program.

#### 3.6 Groundwater Level Measurement

Groundwater levels were measured at the piezometer installations after the initial field investigation and at the monitoring well installations as part of both field investigations using an electronic water level meter. Groundwater levels were measured relative to the ground surface elevation at each monitoring installation. Groundwater levels at all locations are summarized in Table 1 appended in the Tables section of this report.

Multiple groundwater level measurement events have been completed to date with measurements occurring between January 2022 to May 2023. Groundwater levels in piezometers and the monitoring wells varied between 0.6 to 2.8 m below ground surface (bgs) and 0.0 to 3.7 m bgs, respectively.



Long term groundwater monitoring was undertaken using the VanEssen TD-Diver Water Level Datalogger (10 m) at the fourteen monitoring well locations between October 2022 and May 2023. The monitoring data is presented in Figures 1-12 appended in the Figures section of this report.

#### 3.7 Hydraulic Conductivity Testing

Hydraulic conductivity testing was completed in select monitoring wells installed during both subsurface investigations. Falling head and rising head tests ("slug tests") were completed in accordance with ASTM Standard Test Method D 4404 - Field Procedure for Instantaneous Change in Head (Slug) Tests for Determining Hydraulic Properties of Aquifers.

Slug testing was completed in October 2022 by Paterson personnel. The general test method consisted of the measurement of the static water level in the well, followed by inducing a near-instantaneous change of head in the monitoring well and subsequent monitoring of water level recovery with an electronic water level tape and a Mini Diver water level logger. The change in head was induced by the introduction of either an acetal slug, 0.9 m in length and 38 mm in diameter, or a metal slug, 1.0 m in length and 19 mm in diameter, depending on the well diameter. The slug was introduced to raise the groundwater level in the monitoring well, following which the decrease in water level over time was monitored (falling head test). Once the water level had stabilized (or nearly stabilized), the slug was then removed to lower the groundwater level, following which the increase in water level over time was monitored (rising head test).

Following the completion of the slug tests, the test data was analyzed as per the method set out by Hvorslev (1951). Assumptions inherent in the Hvorslev method include a homogeneous and isotropic aquifer of infinite extent, zero-storage assumption, and a screen length significantly greater than the monitoring well diameter. The assumption regarding aquifer storage is considered to be appropriate for groundwater flow through the overburden and bedrock aquifer. The assumption regarding screen length and well diameter is considered to be met based upon a typical length of 1.52 m and a diameter of 0.03 to 0.05 m.

While the idealized assumptions regarding aquifer extent, homogeneity, and isotropy are not strictly met in this case (or in any real-world situation), it has been our experience that the Hvorslev method produces effective point estimates of hydraulic conductivity in conditions similar to those encountered at the subject site. Hvorslev analysis is based on the line of best fit through the field data (hydraulic head recovery vs. time), plotted on a semi-logarithmic scale. In cases where the initial hydraulic head displacement is known with relative certainty, such as in this case where a physical slug has been introduced, the line of best fit is considered to pass through the origin. In cases where the initial hydraulic head displacement is known with less certainty (e.g. a bail test, where water is pumped rapidly from the well), the best-fit line is drawn regardless of the origin.

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Based on the above test methods, the overburden and bedrock monitoring wells displayed hydraulic conductivity values ranging from  $4.2 \times 10^{-6}$  m/sec to  $2.2 \times 10^{-5}$  m/sec and  $4.3 \times 10^{-7}$  m/sec to  $1.6 \times 10^{-4}$ , respectively. The hydraulic conductivity test results can be found in Appendix 4 as well as in a summary table (Table 2) appended in the Tables section of this report.

#### 3.8 Pask Permeameter Testing

Permeameter testing was conducted using a Pask (Constant Head Well) Permeameter in September 2022. An 83 mm diameter hole was excavated using a Riverside/Bucket auger to a depth of 0.3 m bgs and a separate hole was excavated to a depth of 0.6 m bgs at 12 locations. All soil from the auger flights were visually inspected and initially classified on site. The permeameter reservoir was filled with water and inverted into the hole, ensuring it was relatively vertical and rests on the bottom of the hole. The water level of the reservoir was monitored at 1-minute intervals until the rate of fall out of the permeameter reached equilibrium, known as quasi "steady state" flow rate. Quasi steady state flow can be considered to have been obtained after measuring 3 to 5 consecutive rate of fall readings with identical values. The values for the steady state rate of fall were recorded for each location.

Preparation and testing of this investigation are in accordance with the Canadian Standards Association (CSA) B65-12 - Annex E. The hydraulic conductivity ( $K_{fs}$ ) values for each test hole location are presented in Table 2.

Hydraulic conductivity values were determined using Engineering Technologies Canada (ETC) Ltd. reference tables provided in the most recent ETC Pask Permeameter User Guide dated March 2016.

Based on the above testing, field saturated hydraulic conductivity values ( $K_{fs}$ ) in the test holes ranged from 1.1 x 10<sup>-7</sup> to 6.4 x 10<sup>-6</sup> m/sec at a depth of 0.3 m and  $\leq$ 8.3 x 10<sup>-9</sup> to 5.9 x 10<sup>-6</sup> m/sec at a depth of 0.6 m. A summary of field saturated hydraulic conductivity results can be found in Table 3 appended in the Tables section of this report.

The field saturated hydraulic conductivity test results have been shown to be lower than the saturated hydraulic conductivity values typically measured. Reynolds (1993) has shown that the  $K_{fs}$  value can be less than or equal to half of  $K_s$  due to partial blocking of soil pores by air bubbles.

# 3.9 Stable Isotope Investigation

Stable isotopes, specifically deuterium (<sup>2</sup>H) and oxygen-18 (<sup>18</sup>O), are a useful tool to trace the water cycle and identify potential groundwater recharge and/or discharge zones. The <sup>2</sup>H and <sup>18</sup>O signature of local meteoric water will vary





seasonally, apposed to the <sup>2</sup>H and <sup>18</sup>O signature of groundwater which remains constant (an average of local meteoric water). By comparing site specific isotope results to local meteoric water results, we can determine if surface water features are primarily impacted by groundwater or precipitation derived discharge.

A select number of monitoring wells were sampled for stable isotopes, specifically, deuterium (<sup>2</sup>H) and oxygen-18 (<sup>18</sup>O), to provide insight on groundwater recharge and discharge at the subject site. Prior to collecting each sample, a minimum of three well volumes were purged from the well to ensure that the sample was representative of the groundwater system. Once the well was developed and deemed to contain a representative sample, a 500 mL polyethylene sample bottle was filled with minimal to no headspace and refrigerated until it was submitted to the lab for isotopic analyses.



#### 4.0 Review and Evaluation

# 4.1 Physical Setting

The subject site is a mix of agricultural land, forested areas, and a hydro corridor. The western portion of the proposed residential development consists of forested areas. There is a SWMP that is located adjacent to the northwestern boundary of the proposed residential development with the outlet extending southeast between the subject site parcels. The hydro corridor extends in a northerly direction across the site with a second SWMP located centrally on property owned by others. The eastern portion of the study area consists of a cleared area that has been converted into agricultural land. Northwest of the subject site has municipal services with existing and proposed residential developments. An existing, privately serviced residential development with country estate lots is located to the west of the proposed residential development. Shea Road is located to the south.

The subject site has topographical relief extending from the west corner of the site that ranges from  $\pm 109$  m down to  $\pm 102$  m asl in the east corner. The ground surface exhibits a greater slope in the west portion of the site with a reduced slope extending eastward.

The Faulkner Drain transects the subject site from the northwest to the southeast. The west corner of the site contains a small shallow man-made excavation that was likely used for private aggregates. The excavation has been observed to be filled with water with a connection noted to extend to a man-made drainage ditch leading to the Faulkner Drain.

According to available mapping, the region is generally characterized by non-cohesive material with glaciomarine deposits which is generally consistent with field observations at the subject site. To the north, a small portion of the region is characterized by glacial till deposits which is generally consistent with field observations at the subject site.

# 4.2 Geology

# 4.2.1 Surficial Geology

The surficial geology mapping of the National Capital Region provided by the Ontario Geologic Survey was reviewed as a part of this assessment. Available mapping indicates that overburden soils at the subject site consist primarily of glaciomarine deposits with fine grained material to the east and coarse-grained material to the west. To the north, a small portion of the subject site consists of glacial till. Overburden soils mapping is shown on Drawing PH4625-1 - Surficial Geology Plan in Appendix 3.



Overburden soils identified by the geotechnical investigations by Paterson were generally consistent with the available mapping. Overburden thickness was observed to extend from 0.3 to 6.1 m bgs across the subject site, with available mapping indicating between 0 to 10 m of soil generally present which is shown on Drawing PH4625-2 - Overburden Drift Thickness Plan in Appendix 3. The overburden generally consisted of topsoil over silty sand to a sandy silt deposit underlain by glacial till. Clay was observed interbedded with the sandy silt layer on the eastern portion of the subject site. All layers were not observed in all test holes.

Specific details are provided on the Soil Profile and Test Data Sheets appended to this report in Appendix 2.

# 4.2.2 Bedrock Geology

Bedrock mapping, provided by Ontario Geologic Survey of the National Capital Region was reviewed as a part of this assessment. Available mapping indicates that bedrock across the subject site consists of limestone, dolostone, shale and sandstone of the Gull River Formation (Middle Ordovician). The Gull River Formation is a member of the Simcoe Group. Bedrock Geology mapping is shown on Drawing PH4625-3 - Bedrock Geology Plan in Appendix 3.

Bedrock was encountered and cored during the geotechnical investigations and was generally consistent with available mapping. Bedrock was encountered between 0.8 to 6.0 m bgs across the subject site and cored to a maximum depth of 10.2 m bgs. Shallower bedrock was encountered within the western portion of the subject site and deeper bedrock within the eastern portion. Generally, bedrock was characterized as excellent quality dolostone interbedded with limestone across the subject site. Bedrock depths are identified on the appended Drawing PG5570-2.REV.03 - Bedrock Contour Plan.

#### 4.2.3 Karst Features

The term 'karst' refers to a geologic formation characterized by the dissolution of carbonate bedrock, such as limestone. Based on a review of Ontario Geological Survey available mapping, a small area within the western portion of the subject site is inferred to contain karst, while the remainder of the site falls within an area that can potentially contain karst. It should be noted that no evidence of karstification was observed at the time of the field investigations completed at the subject site. Site specific testing provides better resolution than high level mapping as well as our experience at other sites in the area, it is our opinion that the subject site does not contain karst.

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# 4.3 Hydrogeological Setting

# 4.3.1 Existing Aquifer Systems

Aquifer systems may be defined as geological media, either overburden soils or fractured bedrock, which permit the movement of groundwater under hydraulic gradients. In general, aquifer systems may be present in overburden soils or bedrock. The overburden soils at the subject site are relatively shallow and consist of moderate hydraulic conductivities with lower value materials on the east side of the subject site. Given the limited thickness and available quantity of groundwater within the overburden aquifer, it is not considered an adequate source for water supply wells. The domestic water wells surrounding the subject site are accessing the bedrock aquifers.

Based on a review of the MECP water well record database, Paterson has identified one aquifer system in the vicinity of the study area which consists of the underlying bedrock aquifer. The Gull River Formation aquifer system is located over the entirety of the study area. The majority of water wells are completed at greater depths within the bedrock unit.

This assessment will address the overburden aguifer and maintaining the existing water balance in order to protect existing water users/uses and the quantity/quality. The existing man-made excavation, as previously noted, allows a mixture of precipitation and limited volumes of shallow groundwater to daylight to surface. It currently allows for localized surficial flows to be directed to an unnamed manmade drainage ditch that connects to the Faulkner Drain. Isotope testing results, which are presented in Section 4.3.6.1, and the high RQD values observed in the bedrock aguifer support the interpretation that this man-made surface water feature is primarily impacted by surficial flows and surface water runoff. Construction of servicing and building excavations are expected to contribute to altering the existing flow paths and would limit the ability of the man-made water feature to function in the same manner. However, limiting the surficial contributions to this man-made surface water feature will not have an impact to the overall hydrogeological function of the site given that shallow groundwater will continue to flow laterally at the bedrock interface until it is discharged at the Faulkner Drain or roadside ditch.

#### 4.3.2 Groundwater Levels

Piezometers and monitoring wells were placed across the study area for the purpose of monitoring groundwater levels. The piezometers were installed in the overburden and the monitoring wells were installed in the bedrock. Groundwater levels were observed to be between 0.6 to 2.8 m bgs in the piezometers and between 0.0 to 3.7 m bgs in the monitoring wells. The initial groundwater levels are shown on the Soil Profile and Test Data Sheets appended to this report in Appendix 2. Groundwater elevations that were collected on October 11, 2022,



were used to determine hydraulic gradients which are displayed in Table 4, Table 4b and Table 5 appended in the Tables section of this report, and to determine a general groundwater flow direction at the subject site which is shown on Paterson Drawing PH4625-5 - Groundwater Contour Plan within Appendix 3.

The water level monitoring program provides an overview of the variations in the monitoring well water levels based upon seasonal fluctuations. The manual measurements from the monitoring program are summarized in Table 1 at the end of this report.

The monitoring program extended from October 2022 to May 2023. The monitoring data was compared with Environment and Natural Resources Canada precipitation data from the Ottawa International Airport over the same timeframe as part of the monitoring program. The monitoring data is presented in Figures 1-12 appended in the Figures section of this report.

It is our interpretation that saturated conditions in the permeable overburden soils represent the existing water table at the subject site with the potential for minor groundwater lowering due to servicing installation and a typical minor water budget deficit after development. Groundwater levels in overburden soils are expected to vary seasonally and provide insignificant recharge to the underlying bedrock aquifer. Localized perched water conditions should lower during periods of low precipitation and increase during greater precipitation events. It should be noted that groundwater within the shallow overburden aquifer is expected to flow laterally at the bedrock interface until it is discharged at the Faulkner Drain or roadside ditch.

# 4.3.3 Horizontal Hydraulic Gradients

The direction of hydraulic gradients shows that groundwater flow travels predominantly from west to east towards the eastern corner of the subject site. The study area is located within the Flowing Creek subwatershed where local groundwater flow is generally in an eastward direction towards the Faulkner Drain. Regional groundwater flow is also in an eastward direction towards the Jock River.

The overburden and bedrock groundwater flow in the vicinity of the study area is considered to partially reflect local topography and subwatershed regional boundaries. The horizontal hydraulic gradient in the bedrock was observed to be in a general eastward direction with increased values within the western portion of the subject site. The bedrock horizontal gradients ranged from approximately 0.001 to 0.026 m/m. As for the horizontal hydraulic gradient in the overburden material, it was interpreted to have a similar magnitude and direction as the bedrock given the similarities in groundwater levels at the nested well locations. The overburden horizontal gradient was measured to be approximately 0.006 m/m east. A summary of the site values can be found in Table-4 - Horizontal Hydraulic Gradient Summary appended in the Tables section of this report.



#### 4.3.4 Vertical Hydraulic Gradients

Vertical hydraulic gradients were calculated within two nested well installations across the study area. BH 1-22 and BH 1A-22 (west area of the study area) had a vertical upward gradient of approximately 0.011 to 0.015 m/m while BH 3-22 and BH 3A-22 (east area of the study area) had a vertical downward gradient of 0.004 to 0.035 m/m. It is anticipated that the vertical gradient observed in the west portion of the site is due to the higher topography to the west of the subject site providing additional head where groundwater may daylight in areas such as the man-made excavation observed in the west portion of the site. The eastern portion of the site is showing a slight downward gradient which is indicative of the overburden providing insignificant recharge to the underlying bedrock aquifer. A summary of the vertical gradients is displayed in Table 5 - Vertical Hydraulic Gradient Summary appended in the Tables section of this report.

#### 4.3.5 Hydraulic Conductivity

Based on the field hydraulic conductivity testing undertaken as part of this assessment, the hydraulic conductivity of the overburden materials were observed to range between  $4.2 \times 10^{-6}$  m/sec to  $2.2 \times 10^{-5}$  m/sec while the hydraulic conductivity of the bedrock were observed to range between  $4.3 \times 10^{-7}$  to  $1.6 \times 10^{4}$  m/sec. These values are consistent with tabulated values from Freeze and Cherry (1979) and field values encountered at similar sites. A summary of the hydraulic conductivity results can be found in Table 2 in appended in the Tables section of this report.

To determine the field hydraulic conductivity of the unsaturated soils at the subject site, Pask Permeameter testing was conducted at depths of 0.3 and 0.6 m bgs. Twelve test locations were identified across the subject site to provide general coverage of surficial  $K_{fs}$  values.

The test results showed the surficial field saturated hydraulic conductivity ranged from  $1.1 \times 10^{-7}$  to  $6.4 \times 10^{-6}$  m/sec at a depth of 0.3 m and  $\le 8.3 \times 10^{-9}$  to  $5.9 \times 10^{-6}$  m/sec at a depth of 0.6 m. The values observed at 0.6 m depth were generally lower than the values at 0.3 m depth. Highest surficial field saturated values were observed within the western portion of the subject site indicating that the western portion of the site will exhibit more permeable characteristics than the eastern portion of the subject site. A summary of the surficial field saturated hydraulic conductivity results can be found in Table 3 appended in the Tables section of this report.

The hydraulic conductivity testing results suggest that the overburden materials act as a permeable layer to predominantly transmit groundwater in a horizontal direction with insignificant recharge to the bedrock layer below. Due to the higher RQD values noted, the recharge to the bedrock aquifer is anticipated to be



negligible. Based on the available information, the overburden soils will generally behave as an unconfined aquifer.

#### 4.3.6 Groundwater Recharge and Discharge

In general, groundwater will follow the path of least resistance from areas of higher hydraulic head to areas of lower hydraulic head. Upward and downward hydraulic gradients are typically indicative of areas of discharge and recharge, respectively.

Based on field saturated hydraulic conductivity testing in the overburden soils, the overburden soils are considered to have a moderate hydraulic conductivity, which are mapped as a significant groundwater recharge area (SGRA). The Mississippi-Rideau Source Protection Region (MRSPR) SGRA mapping shows that the site area mapped as a recharge area is negligible compared to the overall SGRA zones. Site specific testing shows that subject site is underlain by high RQD bedrock which supports the interpretation that the significance of the recharge to the bedrock aquifer is insignificant given most of the surficial groundwater flow occurs laterally at the bedrock interface until it is discharged at the Faulkner Drain. It should be noted that site specific testing provides better resolution than the high level SGRA mapping provided by the MRSPR.

It is our interpretation that precipitation will intercept the soil surface where it will flow vertically downward through the unsaturated surficial soils to the groundwater table before travelling laterally through the overburden aquifer at the bedrock interface. There is inferred minor groundwater discharge to a man-made surface water feature in the western portion of the subject site due to topographic variations, however, is expected to be limited in nature due to the isotope results discussed in Section 4.3.6.1. This man-made surface water feature has a negligible impact to the overall hydrogeologic function of the subject site.

The vertical gradients observed at the site support the general assertion that the site provides recharge to the shallow overburden aquifer and insignificant recharge to the bedrock aquifer with a limited area of groundwater discharge to the west. This limited area of groundwater discharge is considered to be insignificant with respect to the overall hydrogeologic system.

The study area intersects one subwatershed as previously mentioned and will have flow generally travelling in an eastward direction within the western portion of the subject site, and in a southeastern direction within the eastern portion of the subject site, towards the Faulkner Drain which is tributary to the Jock River.

The presence of overburden soils with moderate hydraulic conductivity overlying the bedrock aquifer units are considered to provide the potential for insignificant groundwater recharge in these areas. It should be noted that the subject site is not identified by the MRSPR as a drinking water protection zone.



Based on the foregoing, groundwater recharge from ground surface to the bedrock aquifer units are considered to extend well beyond the boundary of the study area.

Additional measures to maintain post-development recharge should be reviewed by the Civil Consultant based on the soil properties and water budget information. The shallow bedrock, perched groundwater in the shallow overburden, and high RQD values may make it impractical to use infiltrating Low Impact Development (LID) measures on the site. The use of best management practices (BMP) should be used for stormwater quality and quantity control to assist in infiltrating clean water, treating salt impacted water where possible or redirecting salt impacted water away from the SGRA during seasonal periods with expected elevated salt levels.

#### 4.3.6.1 Isotopes - Deuterium and <sup>18</sup>O

Isotope testing was conducted to provide further review of the groundwater flow regime. By comparing the isotopic sample results to the Local Meteoric Water Line (LMWL), interpretations about potential groundwater recharge and discharge zones can be made. A LMWL shows the relationship between <sup>2</sup>H and <sup>18</sup>O in precipitation for a specific geographic region, in this case Ottawa. Water features that are largely impacted by precipitation events will generally consist of a <sup>2</sup>H and <sup>18</sup>O signature that is similar to the <sup>2</sup>H and <sup>18</sup>O isotopes associated with that specific event. However, groundwater will generally have a <sup>2</sup>H and <sup>18</sup>O signature similar to the average <sup>2</sup>H and <sup>18</sup>O value of the LMWL. Therefore, it is expected that precipitation derived water <sup>2</sup>H and <sup>18</sup>O values will show seasonal variability where groundwater will not. Assessing temporal trends in the isotopic data will provide insight on potential discharge and recharge zones at the subject site.

To date, samples were collected from the man-made surface water feature and adjacent monitoring wells on October 28, 2022, December 5, 2022, February 1, 2023, April 4, 2023 and May 30, 2023. The results show that the bedrock water well samples collected during the sampling events all have similar  $^2\text{H}$  and  $^{18}\text{O}$  signatures. Therefore, it is apparent that the bedrock monitoring well samples are representative of the local bedrock groundwater system given the lack of seasonal variability in the isotope results. The samples collected from the man-made surface water feature had different  $^2\text{H}$  and  $^{18}\text{O}$  signatures between the sampling events, showing a more depleted isotopic signature in the winter than the fall and spring. The evolution in the surface water feature's isotopic signature follows the same trend as local meteoric waters, therefore, indicating that the man-made surface water feature is likely impacted by precipitation derived water within the overburden soil with minimal influence from bedrock aquifer discharge. Stable isotope results can be found in Figures 13-16:  $\delta^2\text{H}/\delta^{18}\text{O}$  Results, appended to this report.

# 4.3.7 Gravity Driven Flow Paths

The potential for large-scale gravity driven flow pathways was assessed as part of this investigation. The majority of the study area consists of moderately permeable



5993 & 6115 Flewellyn Road & 6030 & 6070 Fernbank Road – Ottawa, Ontario

material characterized by coarse to fine-grained non-cohesive glaciomarine deposits. The site-specific geological data and hydraulic conductivity testing confirmed the properties of the permeable subsoils across the site. However, localized conditions within the overburden material show variations in the hydraulic conductivity values at the subject site. Regions with more cohesive soils and higher percentages of fine-grained soils have lower hydraulic conductivity values than areas with non-cohesive soils.

The groundwater flow over the study area is considered to be predominantly lateral and with some influence due to topography. Infiltration of groundwater from the overburden material to the underlying bedrock aquifer is considered to be negligible.

# 4.3.8 Impact of Proposed Development on Surrounding Wells

As a component of this investigation, a review of water well records in the vicinity of the subject site was conducted, using the Ministry of the Environment, Conservation and Parks (MECP) online water well record search tool. Water well records within 500 m of the subject site can be found in Appendix 5, and the locations of the water wells provided by MECP's mapping tool are shown on the attached Drawing PH4625-4 - MECP Water Well Location Plan in Appendix 3.

If service trench dewatering is necessary, the radius of influence of the dewatering of service trench excavations can be estimated by using the Sichardt (1992) formula for unconfined aquifers:

$$R_0 = 3000[H - h_w]\sqrt{k}$$

Where  $R_0$  (m) is the steady state radius of influence, H (m) is the thickness of the saturated aquifer,  $h_w$  (m) is the thickness of the dewatered aquifer and k (m/sec) is the hydraulic conductivity of the aquifer unit. The Sichardt formula assumes predominantly horizontal equipotential lines within the unconfined aquifer. This leads to increased accuracy for radius of influence approximations for the excavation being analyzed with increased distance from the dewatering source.

The hydraulic conductivity of the overburden materials was observed to range between  $4.2 \times 10^{-6}$  m/sec to  $2.1 \times 10^{-5}$  m/sec while the hydraulic conductivity of the bedrock was observed to range between  $4.3 \times 10^{-7}$  m/sec to  $1.6 \times 10^{-4}$ , respectively. The groundwater levels used for analysis purposes ranged from 0.6 to 4.4 m bgs with groundwater elevations varying seasonally. Groundwater varies seasonally and may be below the anticipated servicing and housing excavation depths at the time of development.

A steady state condition was used as the point of analysis; however, this condition may not be reached due to the typically short duration that servicing excavations are open prior to backfilling. Based on the above-noted assumed parameter values, radius of influence values for service trenches (maximum depth of 2 to 5



m below existing ground surface) within the development were estimated to be between 5 to 50 m.

A search of the Ontario Water Well Records online mapping database indicates there are several wells within 500 m of the site as depicted on Drawing PH4625-4 - MECP Water Well Location Plan included in Appendix 3. The development to the northwest is municipally serviced and any wells in that area would be erroneously located. The development to the west of the subject site is privately serviced and is considered to be upgradient. A number of WWR for the adjacent subdivision have been placed at the previous centroid of the Lot/Concession where they were drilled with multiple well records mapped on top of one another. However, due to the estate lot sizing, the majority of the wells would be expected to be outside of the theoretical radius of influence and extend well below any proposed excavation depth.

A groundwater impact assessment completed at the detailed design stage will inform the baseline sampling program area. Typically, wells accessing deeper aquifers are at lower risk of impacts by construction dewatering activities due to the greater vertical separation between the dewatering zone and the zone(s) at which water was encountered in these wells. Existing developments have been constructed in the area and Paterson is unaware of negative impacts on private wells related to the previous dewatering / bedrock removal for pre or post development conditions.

The water wells shown on Drawing PH4625-4 - MECP Water Well Location Plan in Appendix 3 should be reviewed based upon available MECP mapping and well installation logs to determine potential monitoring locations.

#### 4.3.9 Environmental Concerns

A review of environmental concerns was performed based upon known and potential concerns related to the subject site.

#### **Brownfield Environmental Site Registry**

A review of the MECP's Brownfield Environmental Site Registry did not identify any environmental concerns within a search radius of greater than 500 m of the subject site. Based on observations of Paterson staff during field work, no potential environmental concerns were identified with respect to the subject site. No visual or olfactory evidence of contamination was observed in the soil, groundwater, or bedrock at the subject site.

#### **Agricultural Practices**

There are active agricultural sites in the downgradient direction of the subject site; however, given the typical nature of agricultural activities in the Ottawa area,



agricultural practices are considered to have a low potential to impact groundwater quality at the subject site.

#### **Existing Permits to Take Water**

There are two Permits to Take Water (PTTW) within 500 m of the subject site. Two of these permits (MECP Reference Numbers - 2630-AUPJNY and 3353-A8KQF) are construction dewatering permits that are used on an intermittent basis during the construction of site servicing and storm ponds related to residential developments in the area. The closest developments are anticipated to have completed the majority of the servicing requirements. The approved daily water taking volumes for all sources is 16,491,000 L/day for Permit 2630-AUPJNY and 5,165,000 L/day for permit number.

#### Groundwater

The overburden aquifer consists of coarser grained non-cohesive soils to the west and fine grained more cohesive soils to the east and is considered a significant groundwater recharge area (SGRA) under the Clean Water Act (2006). As an SGRA, it is important to protect the aquifer from contaminating activities. In order to maintain the pre-development water balance, it is recommended that a restriction on land uses be considered and alternative winter road maintenance within the SGRA to reduce the potential road salting impacts.

#### **Land Use Restrictions**

The majority of the development is expected to consist of residential low-density construction and parks. The proposed land uses are not typically potentially contaminating activities. It is recommended that all potentially contaminating activities, as described within O. Reg. 153/04: Records of Site Condition - Part XV.1 of the Act as set out in Schedule D - Table 2, be restricted. These restrictions would prevent the placement of land uses such as storage of gasoline and related products in fixed tanks, commercial autobody shops, dry cleaning operations and salt manufacturing, processing and bulk storage.

#### **Winter Road Maintenance**

As the maintenance of safe roadways is required by law, a comprehensive system must be in place to clear roadways in a timely manner and using cost effective methods. Rock salt has been one of the most cost-effective approaches to maintaining safe and clear roadways, however, a balance must be struck that also minimizes the negative effects of road salt entering the surface water and aquifers. Source Water Protection (SWP) encourages that in areas where road salt application and snow storage would be a drinking water threat to a highly vulnerable aquifer. A Road Salt Management Plan should be prepared and

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The ECC PEMRS provides recommendations to prevent and/or control actions related to the protection of the environment from road salts. The Transportation Association of Canada (TAC) produced a guideline called "Syntheses of Best Practices - Road Salt Management" (SBPRSM) dated April 2013. The ECC PEMRS recommends that existing salt management plans be compared with the SBPRSM and the most current recommended practices. As the City of Ottawa was one of the many proponents providing funding for the SBPRSM study, they may have ongoing implementation of recommended salt best management practices within the guidelines.

Best management practices are not considered as a requirement under the ECC PEMRS, however, consideration should be given to following the SBPRSM when in an SGRA in order to facilitate the infiltration of clean precipitation to meet the pre-development water balance. Additional benefits to the road authority for following the recommended practices include more efficient operations, improved roadway safety and savings in material usage.

There are many recommended practices listed within the SBPRSM to facilitate the protection of the environment and while all are applicable, some of the practices will yield better results. These include:

- Salt Management Plans
- **Training**
- Infrastructure Design
- Drainage
- Pavements and Salt Management
- Vegetation Management
- Design and Operation of Maintenance Yards
- Snow Storage and Disposal
- Winter Maintenance Equipment and Technologies
- Salt Use on Private Roads, Parking Lots and Walkways

A salt management plan is recommended to identify the optimum quantity of salt to apply to maintain road safety and minimize environmental impacts. The best method to reducing road salt entering the environment is to reduce the quantity of the salt application. Many technologies exist to facilitate salt reduction and should be considered for all areas in proximity to SGRA's.

Drainage design is important to control road salt entering the environment through overland drainage/storm sewer systems, infiltration into the ground and salt spray caused by traffic. Various management options can be found within the SBPRSM to be evaluated against the local conditions. Snow and ice control management

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should be based upon pavement temperatures as they can fluctuate greatly depending on many conditions (i.e. time of day, cloud cover, sub-surface conditions etc.).

Snow removal over the winter occurs to increase safety and allow for future snow clearing storage adjacent to roadways. The snow that is removed can be impacted by ice control chemicals, oil/grease, heavy metals, litter, dirt and other pollutants. The SBPRSM notes that chlorides found in snow leave the snow soon after it is stockpiled along the roadside. The report does not specify the length of time before the chlorides leave the stockpiled snow. It is recommended that methods be reviewed that would reduce road salt application and provide removal of snow prior to chlorides leaving the roadway stockpiles unless the timeframe is unreasonable. In addition, snow removal should be deposited at an off-site location where meltwater would not be at risk of infiltrating into the SGRA.

Education of private contractors may also reduce potential salt effects due to the number of parking areas associated with institutional developments. It is recommended that a Smart About Salt certification be required for contractors operating within salt vulnerable areas.

The preceding recommendations are a brief summary of TAC's best practices for road salt management. Any design of a salt management plan should be done in accordance with the ECC PEMRS and SBPRSM guidelines.

The City of Ottawa Material Application Policy dated October 2011 is appended within Appendix 7. The application policy states that some minor collector and all residential roads will undergo the standard treatment for snow packed roadways. A snow packed roadway requires snow and ice be cleared after completion of the storm and abrasives applied at areas of concern.

The City of Ottawa policy provides a treatment standard for the majority of the roadways in the proposed development that fall under snow packed. The snow packed treatment will minimize the road salt potential and allow the capture of clean precipitation for infiltration without requiring treatment.

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#### 5.0 Assessment and Recommendations

#### **Existing Wells**

Existing water supply wells in the vicinity of the subject site are completed at depths well below the anticipated municipal servicing depths with WWRs noting that water-bearing zones were encountered below the anticipated servicing depths at the subject site. As such, these wells are considered to have a relatively low potential to be impacted by construction dewatering activities at the subject site. The majority of the wells are located upgradient of the subject site with potential impacts related to historical developments that are existing. It is expected that a baseline monitoring program will provide information on the existing water supply wells. The baseline sampling program would be completed as a due diligence measure during the detailed design stage with pre-consultation with the City hydrogeologist.

The proposed development of the subject site will be serviced by municipally supplied services. The assessment of the suitability of groundwater resources for the proposed development of the subject site was not considered.

The proposed development contains one water well believed to be erroneously located as per the MECP mapping available online. As such, decommissioning of existing on-site water wells may be required. These wells should be decommissioned by licensed water well contractors as per Ontario Regulation 903 (Wells) under the Ontario Water Resources Act. Based on the MECP database, the locations of existing water wells within the subject site are shown on Drawing PH4625-4 - MECP Water Well Location Plan Located in Appendix 3. There are additional residences in proximity to the subject site boundary that could be included in the overall development. If these properties are acquired and incorporated into the development area, the wells will be required to be decommissioned. The decommissioning of the wells can be completed at the development construction stage.

#### **Existing Private Sewage Systems**

It is recommended that existing private sewage systems, if encountered, within the subject site be properly decommissioned by a qualified contractor prior to the redevelopment of the subject site. No systems are anticipated to be encountered.

#### **Existing Tile Drains**

The presence of tile drains was not confirmed on the subject site. A typical design for agricultural fields includes tile drains, however, the current agricultural field is not anticipated to have tile drains due to its age. It is recommended that tile drains be removed and/or capped on an as-encountered basis.



#### **Sources of Contamination**

Road salt mitigation is expected as an ongoing concern for the SGRA. It is recommended to follow the guidelines presented by ECC PEMRS and the TAC. The mitigation of future road salt contamination must be a joint venture between on site design (i.e. BMP and stormwater design) and City of Ottawa road maintenance programs. Recommendations were provided in Section 4.3.9.5 - Groundwater to provide a maintenance program to minimize exposure of the SGRA to potential contaminants.

Bedrock was encountered at depths between 0.8 to 6.0 m bgs during the geotechnical investigations. Bedrock mapping indicates that bedrock is at a depth of 0 to 10 m bgs. It is anticipated that bedrock removal will be required during development of the proposed site. As such, a groundwater impact assessment and baseline sampling program will be required for adjacent water supply wells. Previous reporting by others for the adjacent subdivision recommended a sampling radius of 200 m. The City will be consulted on the proposed sampling program and parameters.

#### **Services**

The subject site is to be developed with municipal sewer and water services. General recommendations regarding site servicing are provided under separate cover in our geotechnical investigation report. Specific hydrogeological and geotechnical recommendations will be provided during the detailed design phase. Although specific details regarding site servicing are not currently available, it is our expectation that servicing depths within the subject site will be in the range of 2 to 5 m below existing ground surface based upon existing servicing depths in the surrounding area and the preliminary grade raises proposed.

#### **Permit To Take Water**

For any water taking of greater than 50,000 L/day, a Permit To Take Water (PTTW) or Environmental Activity and Sector Registry (EASR) is required from the MECP. A permit may be required for construction dewatering or works below the water table. The requirement for a PTTW at the subject site will be determined during the detailed design phase dependent upon proposed servicing depths and potential to intercept the groundwater table. The information contained in this report may be used as supporting documentation for a PTTW or EASR application for the subject site. Depending on the nature of the proposed water taking, additional hydrogeological investigation may be required.

#### **Areas of Recharge Potential**

Based on geological and hydrogeological conditions at the subject site, as discussed in previous sections, the potential for groundwater recharge through



overburden soils to the underlying bedrock aquifer is mapped over the majority of the subject site. However, based on the bedrock quality, it is inferred that the recharge to the bedrock aquifer will be insignificant within the boundaries of the subject site. Given that the MRSPR SGRA mapping shows that the site area mapped as a recharge area is minimal compared to the overall SGRA zones in the area, the majority of recharge to bedrock aquifers is interpreted to occur in areas off-site to the west/southwest where bedrock quality may be lower within the SGRA, however, specific areas are not known. It is expected that groundwater recharge from the overburden soils to the bedrock aquifer will be negligible on site with specific information available within the site-specific water budget.

#### **Opportunities and Constraints**

Based on geological and hydrogeological conditions at the subject site, as discussed in previous sections, the potential for shallow overburden groundwater recharge exists over portions of the site that are characterized by glaciofluvial or coarse-textured glaciomarine deposits. The groundwater provides recharge to the shallow overburden aquifer in addition to discharge to the Faulkner Drain which is tributary to the Jock River. It is expected there is limited contribution to the bedrock aquifer due to the high RQD values.

Based on isotope testing results, the existing man-made surface water feature collects localized surface water runoff and limited groundwater discharge, allowing for surficial flows to be directed to an unnamed man-made drainage ditch that connects to the Faulkner Drain. Therefore, the man-made surface water feature is prominently recharged by surface water runoff and isolated groundwater discharge from shallow overburden materials, not the bedrock aquifer. During the construction of the proposed development (i.e. Site servicing and building excavations), it is expected that the shallow overburden will be disturbed with the existing flow paths being altered and would limit the ability for the man-made surface water feature to function in the same manner subsequent to development. However, this will have a negligible impact to the overall water balance at the subject site given that the man-made surface water feature has negligible impacts to the hydrogeological function of the subject site. The opportunity exists for BMPs to maintain recharge to the shallow overburden aquifer at various locations across the subject site.

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## 6.0 Closure

The client should be aware that any information pertaining to soils and all test hole logs are furnished as a matter of general information only, and test hole descriptions or logs are not to be interpreted as descriptive of conditions at locations other than those of the test holes.

This report has been prepared for Caivan (Stittsville South) Inc. and Caivan (Stittsville West) Ltd. in support of the proposed residential development to be located at 5993 and 6115 Flewellyn Road and 6030 and 6070 Fernbank Road. It is hereby acknowledged that Caivan (Stittsville South) Inc. and Caivan (Stittsville West) Ltd. may rely upon and utilize this report for the purpose of obtaining approval of the proposed development.

Paterson Group Inc.

Michael Killam, P.Eng.

Oliver Blume, P.Geo.



# **TABLES**

TABLE 1 - GROUNDWATER LEVEL MEASUREMENT SUMMARY

TABLE 2- SINGLE WELL RESPONSE TEST RESULTS SUMMARY

TABLE 3 - OVERBURDEN FIELD SATURATED HYDRAULIC CONDUCTIVITY RESULTS AND ESTIMATED INFILTRATION RATES

TABLE 4 & 4b - HORIZONTAL HYDRAULIC GRADIENT SUMMARY

TABLE 5 - VERTICAL HORIZONTAL HYDRAULIC GRADIENT SUMMARY

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Table 1 - Monitoring Well Water Level Measurement Summary															
	Well ID	BH1-21	BH2-21	BH3-21	BH22A-21	BH24-21	BH33-21	HA1-22	BH1-22	BH1A-22	BH2-22	BH3-22	BH3A-22	BH4-22	BH5-22
Ground	Surface Elevation (m asl)	104.29	107.19	108.41	102.98	103.07	104.7	106.78	107.31	107.31	103.58	102.25	102.25	105.71	105.7
	undwater (GW) easurements														
11-Jan-22	GW Level (m bgs) GW Elevation (m asl)	1.22 103.07	0.82 106.37	0.89 107.52	2.49 100.49	0.67 102.40	1.84 102.86	Wells Were Not Installed At This Time							
11-Oct-22	GW Level (m bgs) GW Elevation (m asl)	1.12 103.17	1.16 106.03	0.90 107.51	2.61 100.37	0.60 102.47	2.12 102.59	0.31 106.48	1.33 105.99	1.44 105.87	1.52 102.06	0.84 101.42	0.81 101.44	3.62 102.10	1.62 104.09
28-Oct-22	GW Level (m bgs) GW Elevation (m asl)	1.01 103.28	0.95 106.25	0.92 107.49	N/A N/A	0.46 102.61	1.98 102.72	0.28 106.51	1.35 105.97	1.43 105.88	1.52 102.06	0.61 101.64	0.40 101.85	3.65 102.07	1.64 104.06
04-Apr-23	GW Level (m bgs) GW Elevation (m asl)	0.09 104.21	0.33 106.87	0.52 107.89	1.77 101.21	-0.03 103.10	1.20 103.51	0.14 106.64	0.83 106.48	0.94 106.38	0.59 102.99	0.11 102.15	0.00 102.25	3.08 102.64	0.90 104.80
31-May-23	GW Level (m bgs) GW Elevation (m asl)	0.97 103.33	0.87 106.32	0.84 107.57	2.72 100.26	0.74 102.34	2.22 102.49	0.29 106.49	1.35 105.96	1.46 105.86	1.31 102.27	0.93 101.32	0.99 101.26	3.48 102.23	1.56 104.14



Table 2 - Single Well Response Test Results Summary										
Test Hole ID	Ground Surface Elevation (m asl)	Screened Interval (m bgs)	Hydraulic Conductivity (m/s)	Test Type	Screened Media					
			1.2x10 <sup>-5</sup>	Falling Head						
			1.5x10 <sup>-5</sup>	Falling Head	1					
BH1-22	107.31	7.5 - 9.0	1.6x10 <sup>-5</sup>	Falling Head	Bedrock					
			1.9x10 <sup>-5</sup>	Rising Head	1					
			1.5x10 <sup>-5</sup>	Rising Head	1					
BH2-22	102.50	75.00	8.9x10 <sup>-6</sup>	Falling Head	Dodrook					
DП2-22	103.58	7.5 - 9.0	9.1x10 <sup>-6</sup>	Rising Head	- Bedrock					
DI IO OO	100.05	75.00	6.0x10 <sup>-5</sup>	Falling Head	Dodrook					
BH3-22	102.25	7.5 - 9.0	6.6x10 <sup>-5</sup>	Rising Head	Bedrock					
DUOA OO	102.25	1.7 - 3.2	4.2x10 <sup>-6</sup>	Falling Head	Silty Sand to Sandy Silt &					
BH3A-22	102.25		4.8x10 <sup>-6</sup>	Rising Head	Glacial Till					
D114.00	105.71	7.5 - 9.0	8.7x10 <sup>-7</sup>	Falling Head	Daduada					
BH4-22			9.1x10 <sup>-7</sup>	Rising Head	- Bedrock					
	105.70	7.5 - 9.0	1.2x10 <sup>-5</sup>	Falling Head	Dadradi					
BH5-22			2.0x10 <sup>-5</sup>	Falling Head	- Bedrock					
DH0-22			1.4x10 <sup>-5</sup>	Rising Head	Dodrook					
			1.5x10 <sup>-5</sup>	Rising Head	Bedrock					
HA1-22	106.78	0.4 - 0.7	2.2x10 <sup>-5</sup>	Falling Head	Silty Sand					
ΠΑ1-22	100.76	0.4 – 0.7	8.8x10 <sup>-6</sup>	Rising Head	Silly Sanu					
BH1-21	104.29	2.8 - 5.8	1.4x10 <sup>-4</sup>	Falling Head	Bedrock					
DI11-21	104.23	2.0 - 5.0	1.1x10 <sup>-4</sup>	Rising Head	Deditock					
			4.0x10 <sup>-5</sup>	Falling Head						
BH2-21	107.19	2.6 - 5.6	4.0x10 <sup>-5</sup>	Falling Head	Bedrock					
DI 12-21	107.19	2.0 - 3.0	3.9x10 <sup>-5</sup>	Rising Head	Deditock					
			4.1x10 <sup>-5</sup>	Rising Head						
BH3-21	108.41	2.7 - 5.7	3.0x10 <sup>-6</sup>	Falling Head	Bedrock					
BH22A-21	102.98	7.2 - 10.2	4.3x10 <sup>-7</sup>	Falling Head	Bedrock					
			6.0x10 <sup>-5</sup>	Falling Head						
BH24-21	103.07	4.9 - 7.9	7.3x10 <sup>-5</sup>	Falling Head	Bedrock					
DI 124-21	100.07	7.3 - 7.3	5.8x10 <sup>-5</sup>	Rising Head	Dealock					
		<b>_</b>	5.7x10 <sup>-5</sup>	Rising Head						
BH33-21	104.70	3.3 - 6.3	1.6x10 <sup>-4</sup>	Rising Head	Bedrock					



Table 3 - Overburden Field Saturated Hydraulic Conductivity Results and Estimated Infiltration Rates

Test Completed Adjacent to Borehole ID	Infiltration Testing Elevation (m asl)	Material	K <sub>fs</sub> (m/s)*	Unfactored Infiltration Rate (mm/hr)**
BH1-21	103.90	Brown Silty Sand	2.1x10 <sup>-6</sup>	56
DITT 21	103.63	Brown Silty Sand	1.9x10 <sup>-6</sup>	56
BH2-21	106.95	Brown Silty Sand	6.4x10 <sup>-6</sup>	76
DITE ET	106.65	Brown Silty Sand	5.3x10 <sup>-7</sup>	39
BH7-21	106.74	Brown Silty Sand	1.1x10 <sup>-6</sup>	47
DITT ET	106.44	Brown Silty Sand	1.6x10 <sup>-6</sup>	52
BH11-21	104.68	Brown Silty Sand	2.7x10 <sup>-6</sup>	60
DI111-21	104.38	Brown Silty Sand to Sandy Silt	1.6x10 <sup>-6</sup>	52
BH15-21	102.70	Brown Silty Sand to Sandy Silt	2.1x10 <sup>-7</sup>	31
DH 10-21	102.48	Brown Silty Sand to Sandy Silt	< 8.1x10 <sup>-9</sup>	≤ 13
BH17-21	106.74	Brown Silty Sand to Sandy Silt	5.9x10 <sup>-6</sup>	74
DI117-21	106.44	Brown Silty Sand to Sandy Silt	4.1x10 <sup>-6</sup>	67
BH22-21	102.58	Brown Silty Sand	1.1x10 <sup>-6</sup>	47
ם חבב-בו	102.28	Brown Silty Sand	1.6x10 <sup>-6</sup>	52
BH23-21	102.33	Brown Silty Clay w/ Sand	5.3x10 <sup>-7</sup>	39
DH23-21	101.70	Brown Silty Clay	< 8.1x10 <sup>-9</sup>	≤ 13
BH26-21	102.74	Brown Silty Clay w/ Sand	1.1x10 <sup>-7</sup>	26
DH20-21	102.44	Brown Silty Clay w/ Sand	1.1x10 <sup>-7</sup>	26
BH29-21	101.87	Brown Silty Sand to Sandy Silt	5.3x10 <sup>-7</sup>	39
סחבא-בו	101.57	Brown Silty Sand to Sandy Silt	2.7x10 <sup>-7</sup>	33
BH31-21	103.19	Brown Silty Sand to Sandy Silt	1.1x10 <sup>-6</sup>	47
ם ו-2 ו	102.89	Brown Silty Sand to Sandy Silt	1.4x10 <sup>-7</sup>	27
BH37-21	103.21	Brown Silty Sand to Sandy Silt	5.3x10 <sup>-6</sup>	72
DN3/-21	102.91	Brown Silty Sand to Sandy Silt	5.9x10 <sup>-6</sup>	74

<sup>\*</sup>Field hydraulic conductivity (Kfs)



<sup>\*\*</sup>The infiltration rates do not include a safety correction factor. Based on our testing results, a safety correction factor can range between 2.5 to  $\geq$  3.5.

Table 4 -	Table 4 - Horizontal Hydraulic Gradient Summary									
	Well 'A'		Well 'B'							
Well ID	GW Elevation (m asl)	Well ID	GW Elevation (m asl)	Distance (m)	Hydraulic Gradient (m/m)*	Date				
BH3-21	107.515	BH1-22	105.985	73	0.0208	October 11, 2022				
BH3-21	107.515	BH5-22	104.085	131	0.0263	October 11, 2022				
BH3-21	107.515	BH4-22	102.095	206	0.0263	October 11, 2022				
BH1-22	105.985	BH2-21	106.03	197	-0.0002	October 11, 2022				
BH1-22	105.985	BH1-21	103.17	442	0.0064	October 11, 2022				
BH1-22	105.985	BH5-22	104.085	148	0.0128	October 11, 2022				
BH1-22	105.985	BH2-22	102.06	447	0.0088	October 11, 2022				
BH1A-22	105.87	BH3A-22	101.44	708	0.0063	October 11, 2022				
BH2-21	106.03	BH1-21	103.17	296	0.0097	October 11, 2022				
BH2-21	106.03	BH2-22	102.06	358	0.0111	October 11, 2022				
BH5-22	104.085	BH4-22	102.095	137	0.0145	October 11, 2022				
BH5-22	104.085	BH2-22	102.06	330	0.0061	October 11, 2022				
BH2-22	102.06	BH3-22	101.415	397	0.0016	October 11, 2022				
BH33-21	102.585	BH3-22	101.415	485	0.0024	October 11, 2022				
BH33-21	102.585	BH22A-21	100.37	549	0.0040	October 11, 2022				
BH33-21	102.585	BH24-21	102.47	307	0.0004	October 11, 2022				
BH3-22	101.415	BH22A-21	100.37	296	0.0035	October 11, 2022				
BH24-21	102.47	BH22A-21	100.37	524	0.0040	October 11, 2022				
BH4-22	102.095	BH3-22	101.415	584	0.0012	October 11, 2022				
BH4-22	102.095	BH33-21	102.585	404	-0.0012	October 11, 2022				

<sup>\*</sup>Hydraulic Gradient = (GW Elevation Well 'A' - GW Elevation Well 'B') / Distance



Table 4b	Table 4b - Horizontal Hydraulic Gradient Summary									
	Well 'A'		Well 'B'							
Well ID	GW Elevation (m asl)	Well ID	GW Elevation (m asl)	Distance (m)	Hydraulic Gradient (m/m)*	Date				
BH3-21	107.57	BH1-22	105.96	73	0.0219	May 30, 2023				
BH3-21	107.57	BH5-22	104.14	131	0.0263	May 30, 2023				
BH3-21	107.57	BH4-22	102.23	206	0.0259	May 30, 2023				
BH1-22	105.96	BH2-21	106.32	197	-0.0018	May 30, 2023				
BH1-22	105.96	BH1-21	103.325	442	0.0060	May 30, 2023				
BH1-22	105.96	BH5-22	104.14	148	0.0123	May 30, 2023				
BH1-22	105.96	BH2-22	102.27	447	0.0082	May 30, 2023				
BH1A-22	105.855	BH3A-22	101.26	708	0.0065	May 30, 2023				
BH2-21	106.32	BH1-21	103.325	296	0.0101	May 30, 2023				
BH2-21	106.32	BH2-22	102.27	358	0.0113	May 30, 2023				
BH5-22	104.14	BH4-22	102.23	137	0.0139	May 30, 2023				
BH5-22	104.14	BH2-22	102.27	330	0.0057	May 30, 2023				
BH2-22	102.27	BH3-22	101.32	397	0.0024	May 30, 2023				
BH33-21	102.485	BH3-22	101.32	485	0.0024	May 30, 2023				
BH33-21	102.485	BH22A-21	100.26	549	0.0041	May 30, 2023				
BH33-21	102.485	BH24-21	102.335	307	0.0005	May 30, 2023				
BH3-22	101.32	BH22A-21	100.26	296	0.0036	May 30, 2023				
BH24-21	102.335	BH22A-21	100.26	524	0.0040	May 30, 2023				
BH4-22	102.23	BH3-22	101.32	584	0.0016	May 30, 2023				
BH4-22	102.23	BH33-21	102.485	404	-0.0006	May 30, 2023				

<sup>\*</sup>Hydraulic Gradient = (GW Elevation Well 'A' - GW Elevation Well 'B') / Distance



File: PH4625

Table 5 - V	Table 5 - Vertical Hydraulic Gradient Summary										
	Well 'A'			Well 'B'							
Well ID	GW Elevation (m asl)	Well Depth (m)	Well ID	GW Elevation (m asl)	Well Depth (m)	Hydraulic Gradient (m/m)*	Date				
BH1-22	105.985	98.29	BH1A-22	105.87	105.69	-0.0155	October 11, 2022				
BH3-22	101.415	93.13	BH3A-22	101.44	99.1	0.0042	October 11, 2022				
BH1-22	105.965	98.29	BH1A-22	105.88	105.69	-0.0115	October 28, 2022				
BH3-22	101.64	93.13	BH3A-22	101.85	99.1	0.0352	October 28, 2022				
BH1-22	105.96	98.29	BH1A-22	105.855	105.69	-0.0142	May 30, 2023				
BH3-22	101.32	93.13	BH3A-22	101.26	99.1	-0.0101	May 30, 2023				

<sup>\*</sup>Hydraulic Gradient = (GW Elevation Well 'A' - GW Elevation Well 'B') / (Well Depth Well 'A' - Well Depth Well 'B')





# **FIGURES**

FIGURE 1: BH1-21 - MONITORING WELL WATER ELEVATIONS

FIGURE 2: BH2-21 - MONITORING WELL WATER ELEVATIONS

FIGURE 3: BH3-21 - MONITORING WELL WATER ELEVATIONS

FIGURE 4: BH22-21 - MONITORING WELL WATER ELEVATIONS

FIGURE 5: BH24-21 - MONITORING WELL WATER ELEVATIONS

FIGURE 6: BH33-21 - MONITORING WELL WATER ELEVATIONS

FIGURE 7: BH1-22 & BH1A-22 - MONITORING WELL WATER ELEVATIONS

FIGURE 8: BH2-22 - MONITORING WELL WATER ELEVATIONS

FIGURE 9: BH3-22 & BH3A-22 - MONITORING WELL WATER ELEVATIONS

FIGURE 10: BH4-22 - MONITORING WELL WATER ELEVATIONS

FIGURE 11: BH5-22 - MONITORING WELL WATER ELEVATIONS

FIGURE 12: HA1-22 - MONITORING WELL WATER ELEVATIONS

FIGURE 13: BH1-22 δ<sup>2</sup>H/δ<sup>18</sup>O RESULTS

FIGURE 14: BH2-21  $\delta^2$ H/ $\delta^{18}$ O RESULTS

FIGURE 15: BH5-22 δ<sup>2</sup>H/δ<sup>18</sup>O RESULTS

FIGURE 16: BH1A-22 δ<sup>2</sup>H/δ<sup>18</sup>O RESULTS

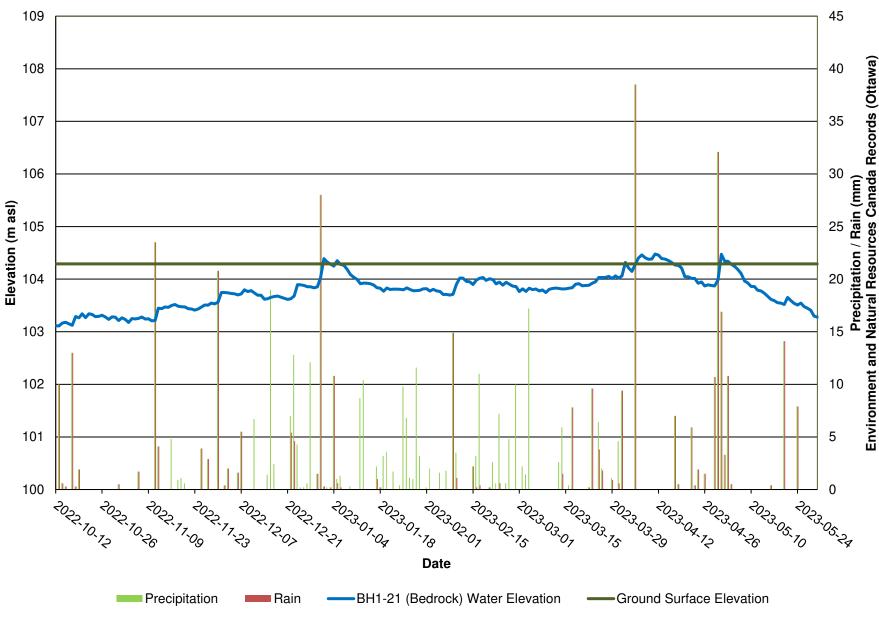


Figure 1: BH1-21 - Monitoring Well Water Elevations



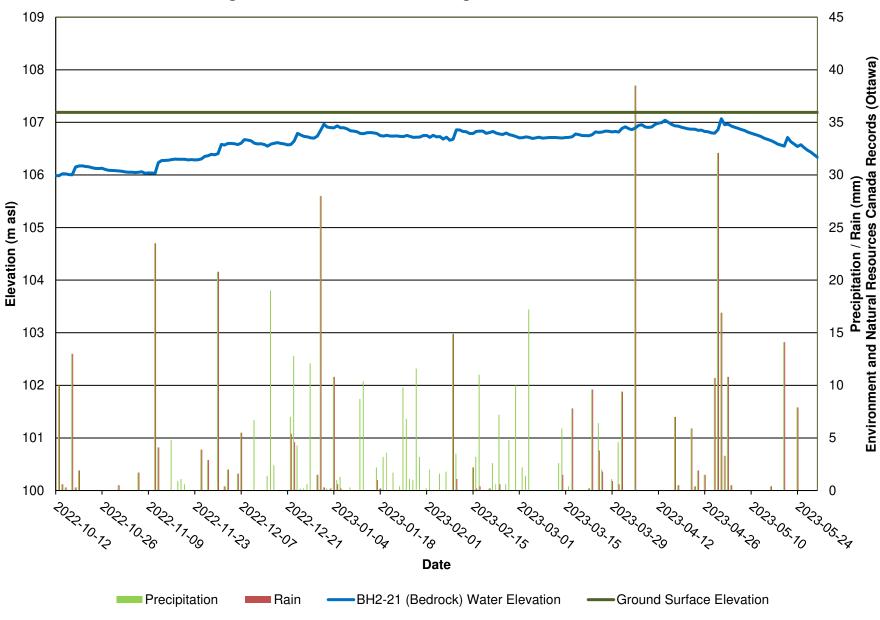


Figure 2: BH2-21 - Monitoring Well Water Elevations



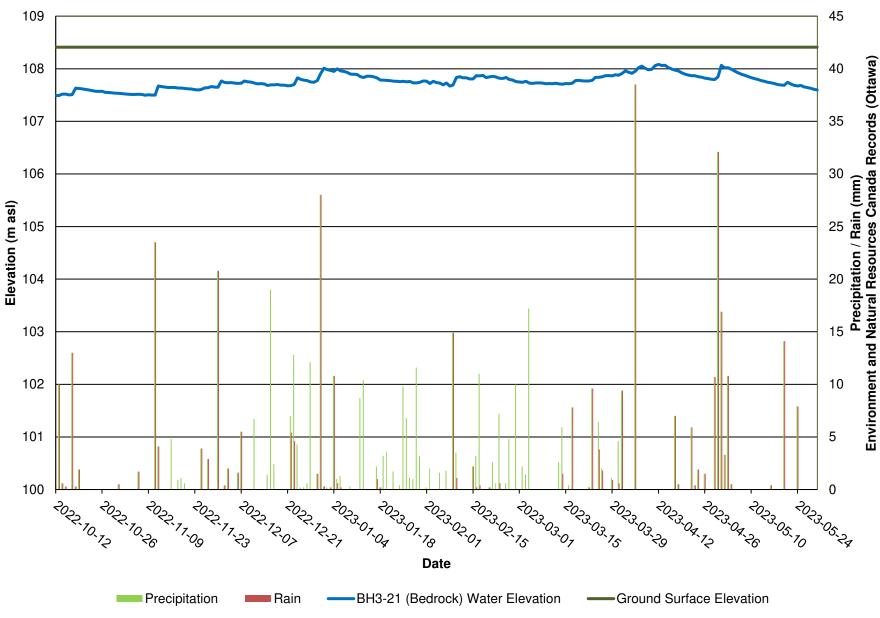


Figure 3: BH3-21 - Monitoring Well Water Elevations



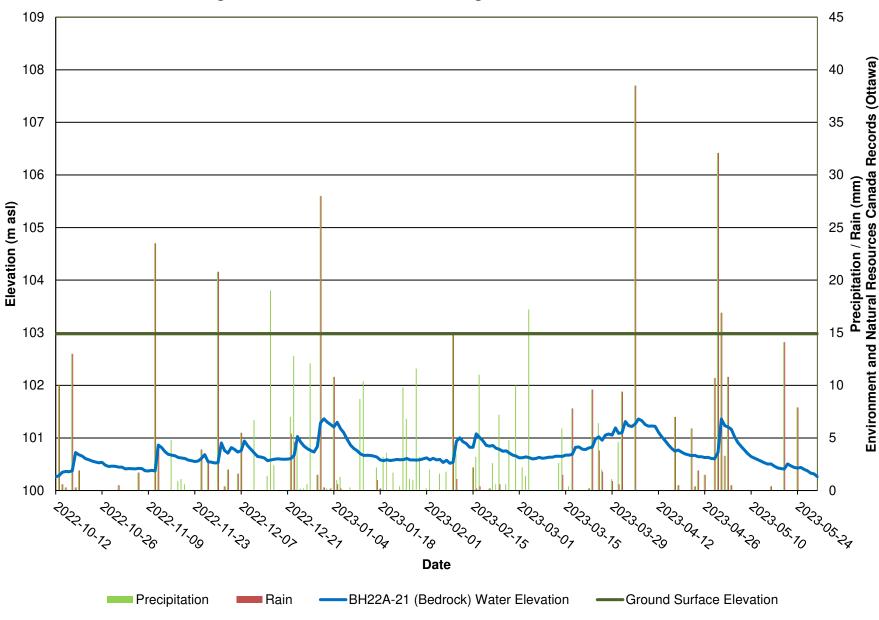


Figure 4: BH22A-21 - Monitoring Well Water Elevations



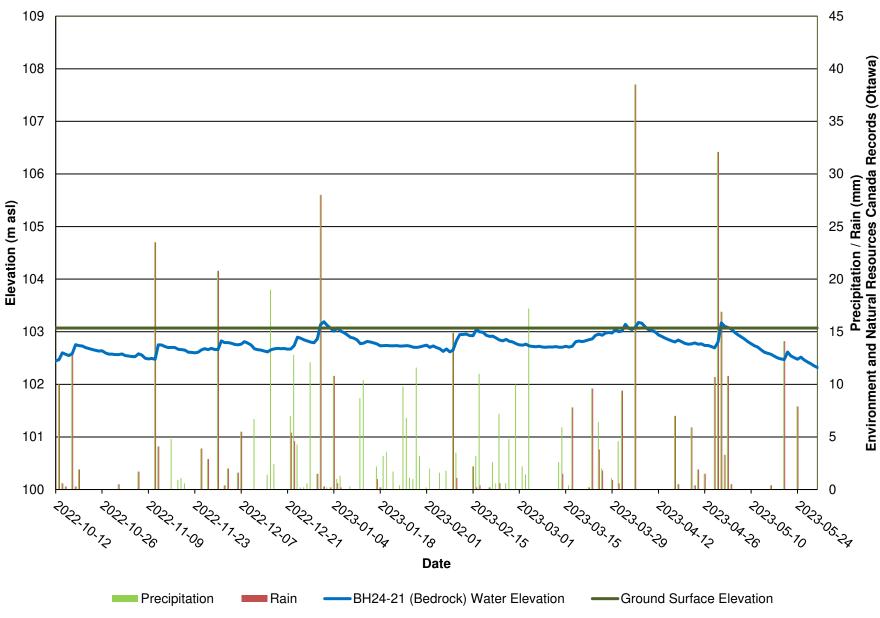


Figure 5: BH24-21 - Monitoring Well Water Elevations



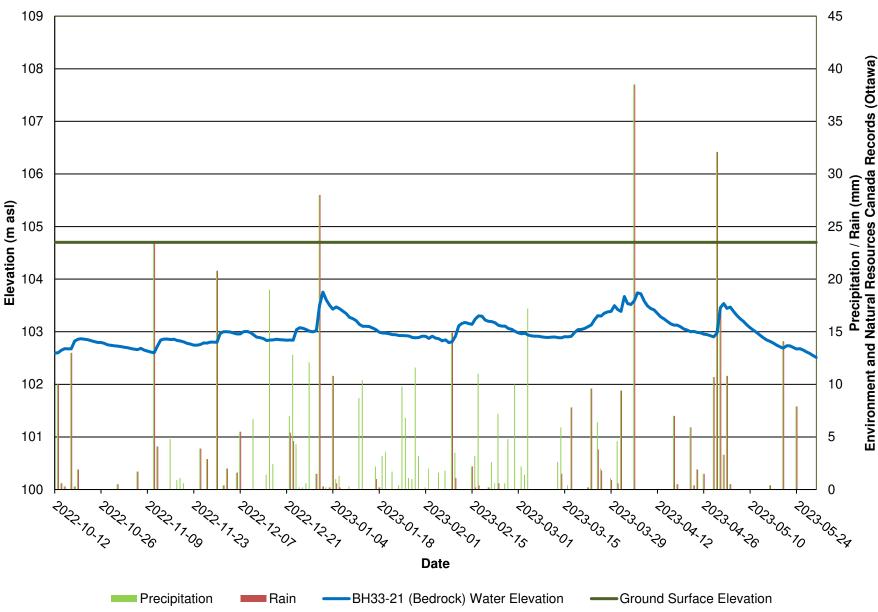
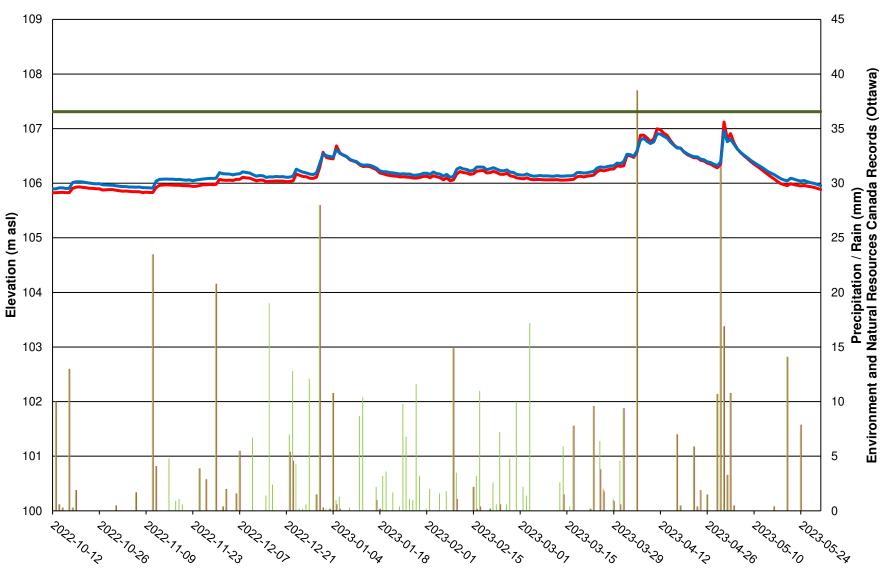


Figure 6: BH33-21 - Monitoring Well Water Elevations





BH1A-22 (Overburden) Water Elevation —BH1-22 (Bedrock) Water Elevation —

Figure 7: BH1-22 & BH1A-22 - Monitoring Well Water Elevations



— Ground Surface Elevation

100

Precipitation

Rain

45 109 Environment and Natural Resources Canada Records (Ottawa) 40 108 107 35 106 Precipitation / Rain (mm) Elevation (m asl) 105 104 103 15 102 10 101 5

2023-02-07

BH2-22 (Bedrock) Water Elevation

Date

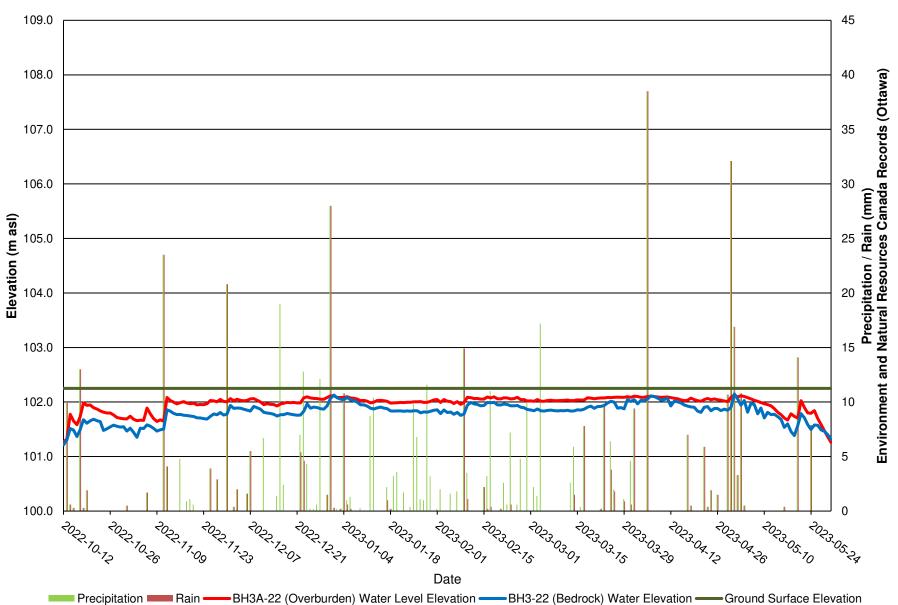
Figure 8: BH2-22 - Monitoring Well Water Elevations



0

Ground Surface Elevation

Figure 9: BH3-22 & BH3A-22 - Monitoring Well Water Elevations





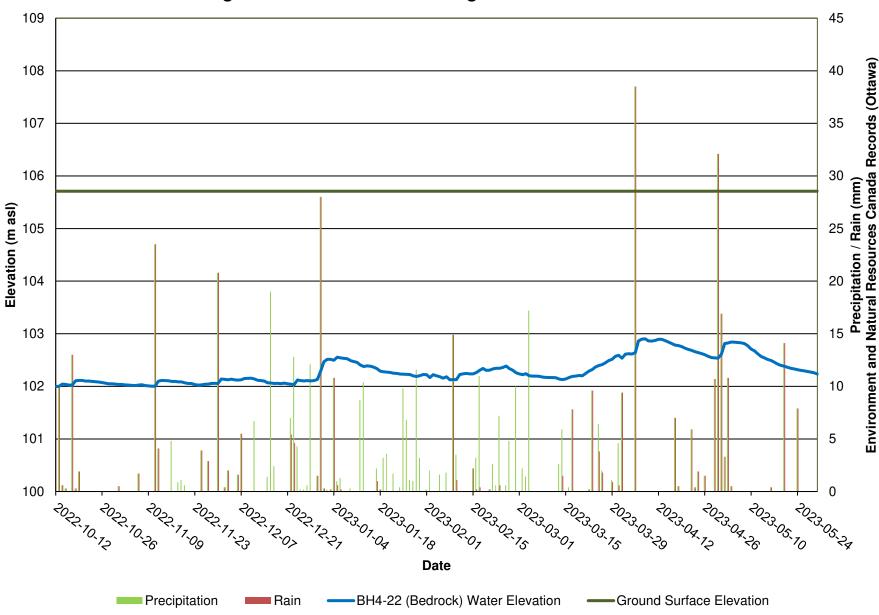


Figure 10: BH4-22 - Monitoring Well Water Elevations



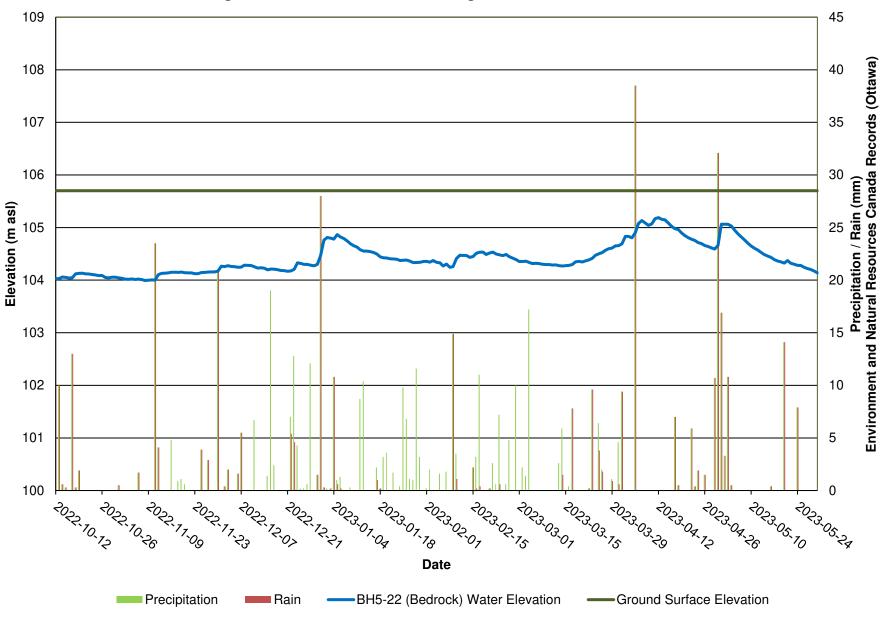


Figure 11: BH5-22 - Monitoring Well Water Elevations



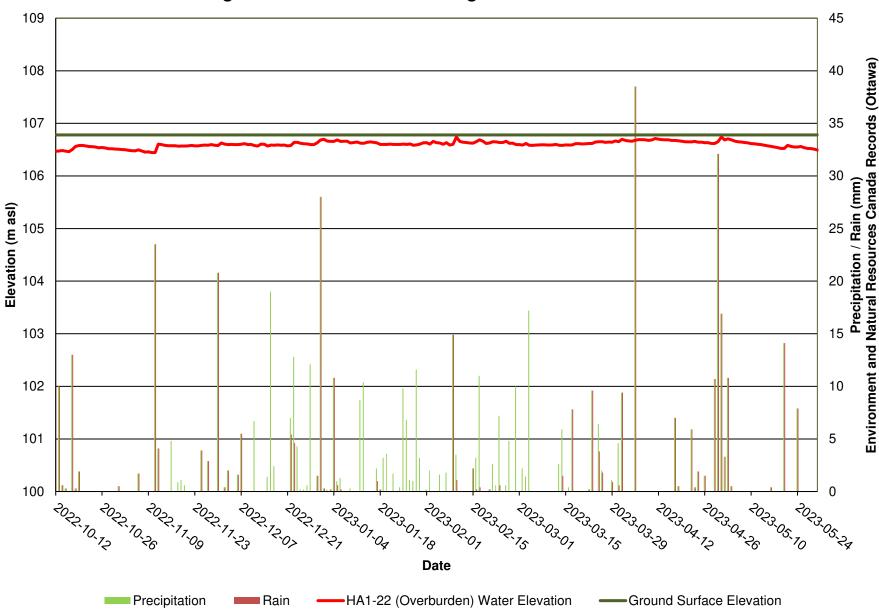


Figure 12: HA1-22 - Monitoring Well Water Elevations



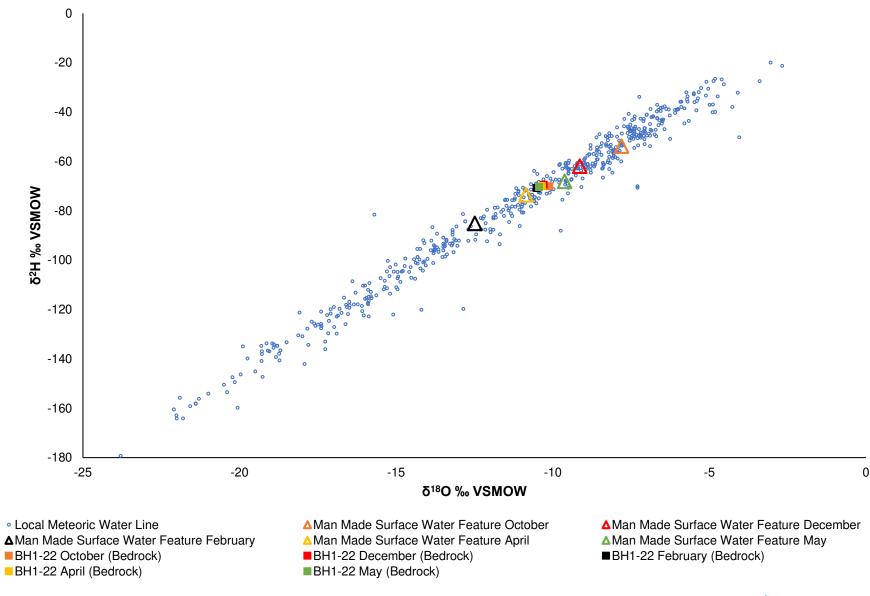


Figure 13: BH1-22  $\delta^2 H/\delta^{18} O$  Results



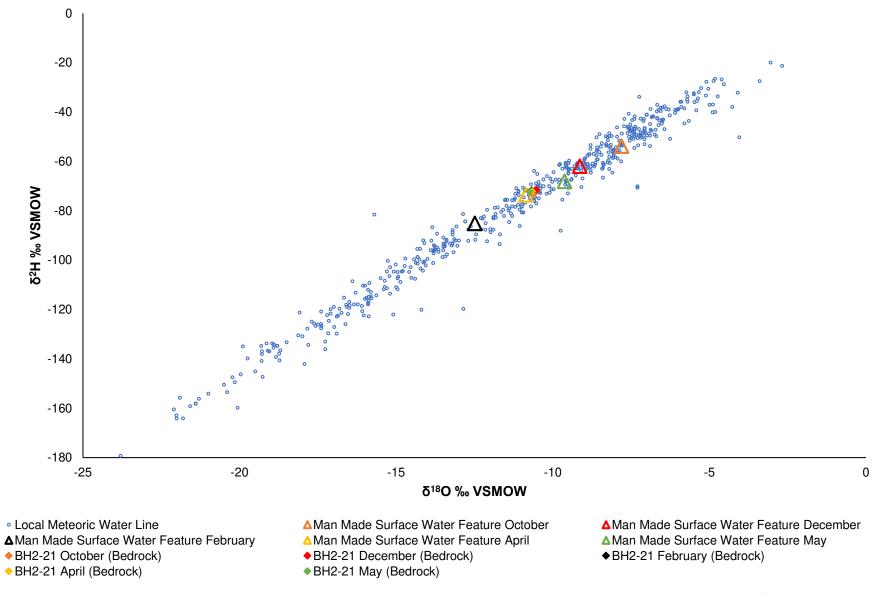


Figure 14: BH2-21  $\delta^2 H/\delta^{18} O$  Results



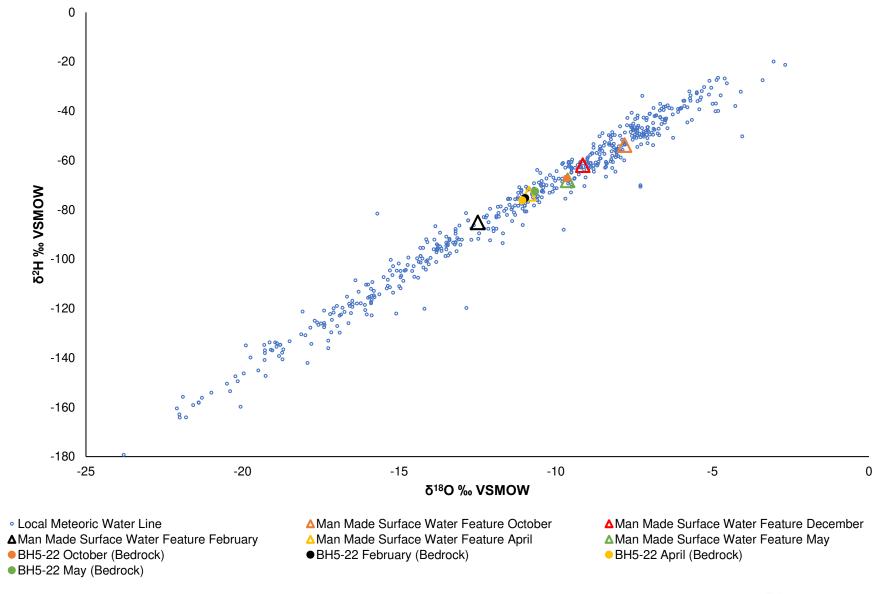


Figure 15: BH5-22  $\delta^2 H/\delta^{18} O$  Results



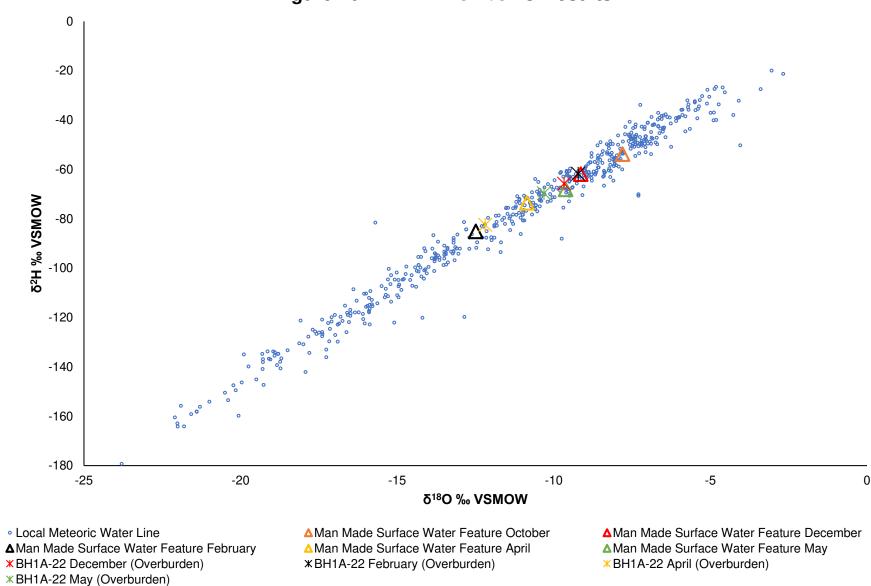


Figure 16: BH1A-22  $\delta^2 H/\delta^{18}O$  Results





## **APPENDIX 1**

PATERSON - TERMS OF REFERENCE

Geotechnical Engineering

Environmental Engineering

**Hydrogeology** 

Geological Engineering

**Materials Testing** 

**Building Science** 

Noise and Vibration Studies

#### **Paterson Group Inc.**

Consulting Engineers 154 Colonnade Road South Ottawa (Nepean), Ontario Canada K2E 7J5

Tel: (613) 226-7381 Fax: (613) 226-6344 www.patersongroup.ca

## patersongroup

# Terms of Reference – Geotechnical and Hydrogeological Investigation

Proposed Residential Development 5993, 6030 & 6115 Flewellyn Road & 6070 Fernbank Road - Ottawa

**Prepared For** 

Caivan Communities

March 15, 2022

Report: PG5570-3 - REV.02



### **Table of Contents**

1 0	Background	PAGE 1
	Study Area	
2.0	Objectives	1
3.0	Existing Studies	1
4.0	Work Plan	2
4.1	Geotechnical Existing Information	2
4.2	Hydrogeological Investigation	3
5.0	Recommendations and Deliverables	4

### **Appendices**

**Appendix 1** Figure 1 - Key Plan

PG5570-1 – Proposed Monitoring Well Mark-up of Testhole

Location Plan



### 1.0 Background

Paterson Group (Paterson) was commissioned by Caivan Communities to prepare a Terms of Reference document for the geotechnical and hydrogeological investigations for the proposed residential development to be located at 5993, 6030, 6115 Flewellyn Road and 6070 Fernbank Road in the City of Ottawa (refer to Figure 1 - Key Plan in Appendix 1 of this report).

#### 1.1 Study Area

The proposed limits of the study area presented in Figure 1 are contained within the Flowing Creek catchment of the Jock River Subwatershed. This area falls under the purview of the Rideau Valley Conservation Authority (RVCA).

The Faulkner Drain extends southeast along the east bounds of 6070 Fernbank Road and 6035 Flewellyn Road until it reaches Flewellyn Road. The Drain continues northeast along Flewellyn Road until it turns southeast to follow Shea Road.

### 2.0 Objectives

The current objective of the existing and proposed reports are to provide reviewing agencies with the available information pertaining to the proposed study area to allow review of planning recommendations that are consistent with their objectives and policies.

The proposed development will be reviewed in the context of Official Plan Policy 4.9.4 and will consider the protection of natural resources.

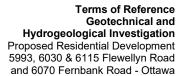
### 3.0 Existing Studies

Previous studies that are relevant to the proposed study area consist of the following:

The Jock River – Reach Two Subwatershed – Phase 1 Report (Marshall Macklin
Monaghan Limited and WESA, 2009)
Paterson Geotechnical Report PG5570-2 – Flewellyn Road – (January 2022)
Paterson Geotechnical Report PG2802-1 - Maguire Lands - Hartsmere Drive
(November 2012) – As part of D07-16-13-0033.
Paterson Geotechnical Report PG2853-1 – Proposed Residential Development

Report: PG5570-3-REV.02

- Stittsville Main Street (January 2013) - As part of D07-16-13-0033.





Main Street (July 2013) - As part of D07-16-13-0033.
Houle Chevrier Engineering - Technical Memorandum - Hydrogeological Study
- (D007-16-13-0033) - Area 6, Stittsville South (April 2015) - As part of D07-
16-13-0033.
Houle Chevrier Engineering - Report on Private Well Monitoring Program
Stittsville South Residential Development and Stormwater Management Pond -
(November 2015) – As part of D07-16-15-0008.

Paterson Geotechnical Report PG2983-1 – Faulkner Lands – Fernbank Road at

Further studies may be identified that are relevant to the proposed development.

#### 4.0 Work Plan

The work plan for the hydrogeological investigation will be based on the requirements of the Policy Development and Urban Design Branch at the City of Ottawa and the RVCA. Fotenn Planning has completed the memo on New Urban Expansion Development for Caivan Communities at the subject site and dated January 27, 2022. The memo provides an outline for the Concept Plan and development approvals process for the subject site. Through the development process there will be Concept Plan options produced that will be evaluated internally within the team of consultants based on current guidelines. Through the various iterations and review, an ultimate development plan will be created through the proposed planning and approval process per the Official Plan policies and objectives.

### 4.1 Geotechnical Existing Information

The existing geotechnical study (PG5570-2 – Geotechnical Investigation dated January 20, 2022) provides a characterization of the local physiography and geology of the subject area. The study results will be used to provide design recommendations for the proposed development.

The geotechnical field program consisted of the following:

	Test pits to delineate the surficial overburden material in three dimensions through multiple samples of the various strata retained for laboratory analyses.
	Boreholes were augered to the bedrock surface, where required, to provide the overburden soil profile and soil characterization.
The	e geotechnical reporting consists of the following:
	The geotechnical report addresses geotechnical conditions for the proposed study area and construction recommendations relevant to the site conditions.
	Detailed test hole logs for all exploratory holes.

Report: PG5570-3-REV.02 March 15, 2022





Test holes were distributed in compliance with the "Geotechnical Investigation and Reporting Guidelines for Development Applications in the City of Ottawa" (latest revision). See attached PG5570-1 – Proposed Monitoring Well Mark-up of Testhole Location Plan for the existing testhole coverage completed with supplemental work noted.

#### 4.2 Hydrogeological Investigation

The hydrogeological investigation will collect and analyze general information to support the water balance, infrastructure design and constraints, and potential effects on nearby wells due to the proposed development.

The hydrogeological field program will be carried out to provide supplemental information to the geotechnical program.

Additional monitoring wells will be installed during the field program for hydrogeological testing as shown on the attached PG5570-1 plan mark-up.
aluation of the hydrogeological conditions will consist of an evaluation of the oundwater resources encountered. The following will be provided:
Delineation and characterization of the encountered aquifers.  Assess the vulnerability of the aquifers.
Calculation of the zone of influence for potential dewatering.  Water supply wells will be located using MECP well record mapping and in the field, where required. Assess the potential risk of impacts to the water wells from the proposed development.
Review requirements of a monitoring program for existing drinking water wells.

The analysis and recommendations for all aspects of the development will be performed in conjunction with the experts within the other disciplines to ensure an integrated approach to the development of the site. As previously mentioned, the results will be used in support of the water budget analysis. The report will include the preceding information documented, in addition to a description of the groundwater flow systems and connections.

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#### 5.0 Recommendations and Deliverables

Recommendations will be provided based upon the available information and in conjunction with the experts within other disciplines to ensure an integrated and cohesive approach to the development of the site.

The deliverables for the project will consist of the hydrogeological reporting, supplemental to the existing geotechnical information, to detail the existing site conditions and the information as set out in Section 4.1 and 4.2.

Paterson (	Group	Inc.
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Michael S. Killam, P.Eng.

#### David J. Gilbert, P.Eng

#### **Report Distribution:**

- ☐ Caivan Communities (Digital copy)
- ☐ Paterson Group (Digital copy)



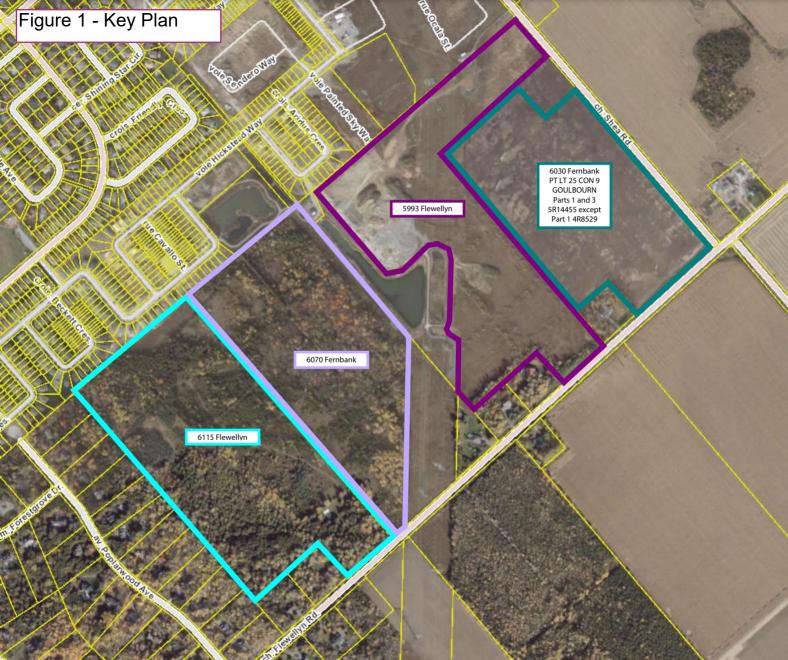
## **APPENDIX 1**

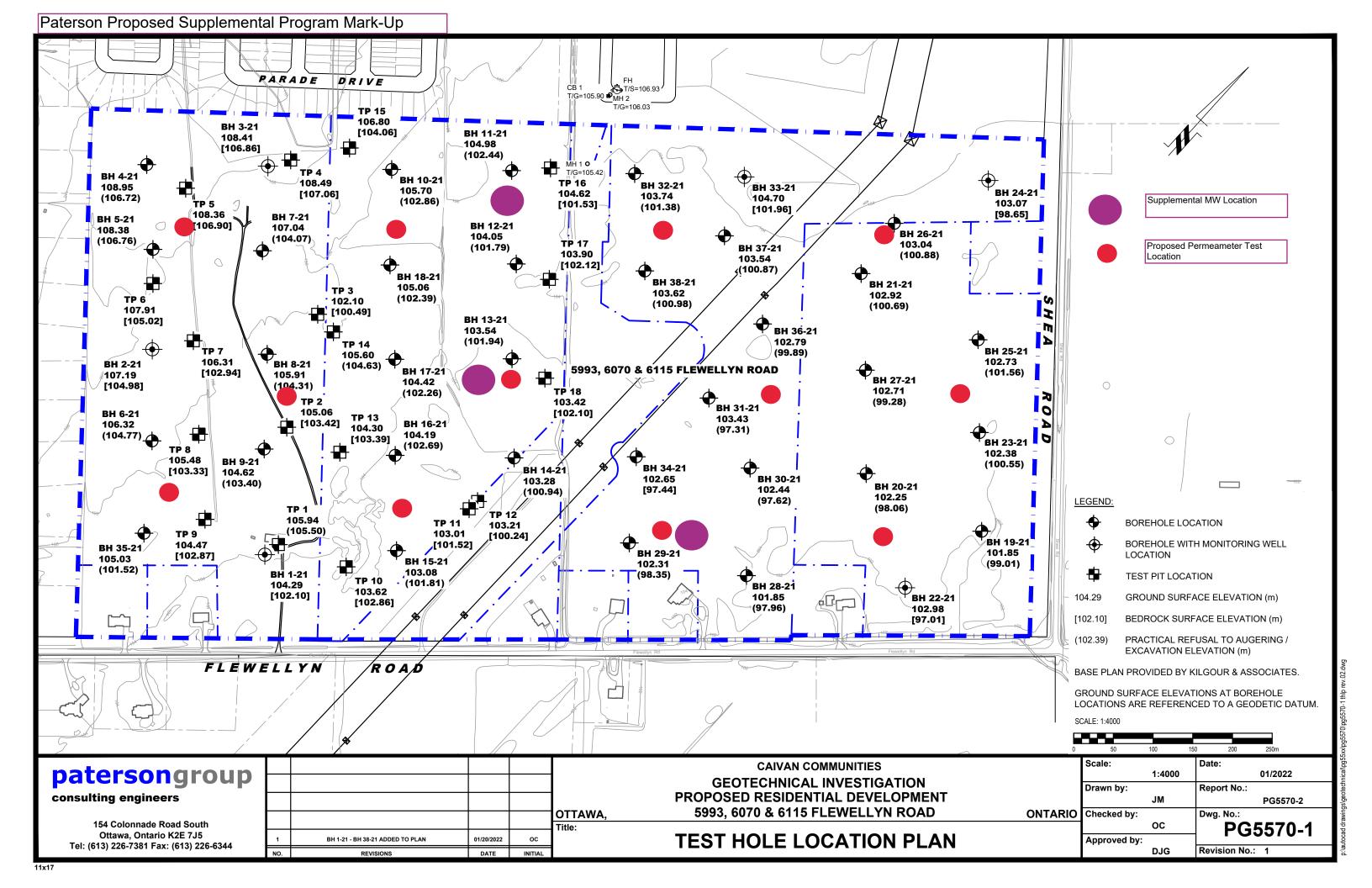
FIGURE 1 – KEY PLAN

PG5570-1 – PROPOSED SUPPLEMENTAL PROGRAM MARK-UP - TESTHOLE LOCATION PLAN

Report: PG5570-3-REV.02

March 15, 2022







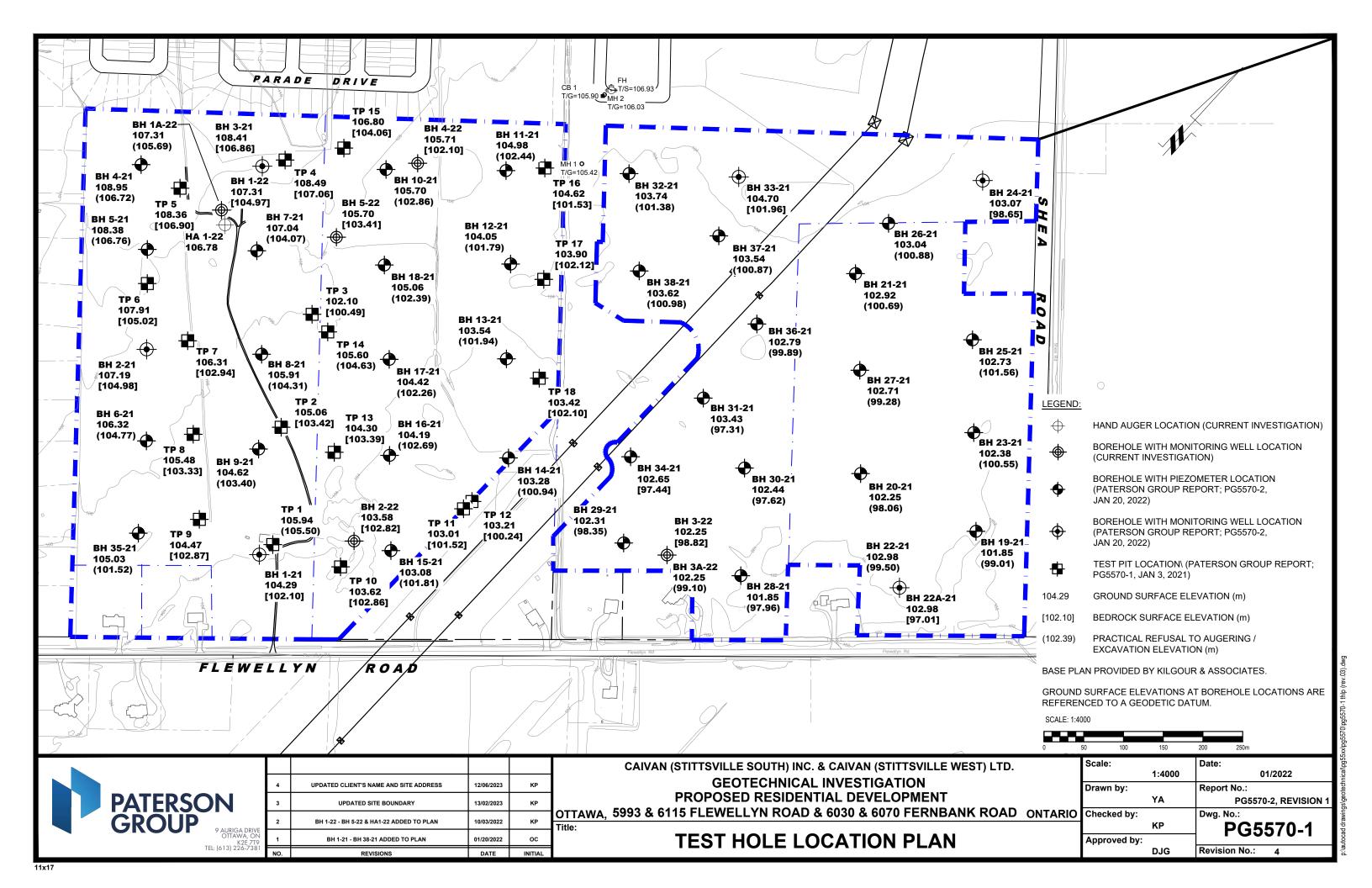
## **APPENDIX 2**

PG5570-1.REV.03 - TEST HOLE LOCATION PLAN

PATERSON - SOIL AND TEST DATA SHEETS

PATERSON - GRAIN SIZE ANALYSIS RESULTS

PATERSON - SOIL ANALYTICAL RESULTS



**SOIL PROFILE AND TEST DATA** 

**Geotechnical Investigation** 5993, 6070 and 6115 Flewellyn Road

**REMARKS** 

9 Auriga Drive, Ottawa, Ontario K2E 7T9 Ottawa, Ontario Geodetic DATUM

FILE NO. PG5570

BORINGS BY CME-55 Low Clearance D	rill			D	ATE S	Septembe	er 28, 20	22		E NO			
SOIL DESCRIPTION	РГОТ		SAN	/IPLE		DEPTH (m)	ELEV.	Pen. R	esist. 0 mm				Well
	STRATA	TYPE	NUMBER	% RECOVERY	N VALUE or RQD	(111)	(111)	0 V	Vater	Con	tent '	%	Monitoring Well
GROUND SURFACE	Ø		N	RE	z °	0-	107.31	20	40	6	0	80	Σç
TOPSOIL  Loose to compact, brown SILTY SAND, trace gravel  0.30 0.60	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	AU	1			0	107.51	О					
GLACIAL TILL: Compact to dense, brown silty sand to sandy silt with	^^^^^ ^^^^^	ss	2	45	17	1-	106.31	O:					_
gravel, cobbles and boulders	^^^^^ ^^^^^	SS	3	14	65	2-	105.31	O					
1 2 2 2 2 2 2 2 2 2		RC =	1	100	89	3-	-104.31						
		RC	2	100	100	4-	-103.31						
BEDROCK: Excellent quality, gray		RC	3	100	100	5-	-102.31						
BEDROCK: Excellent quality, grey limestone interbedded with dolostone		_				6-	-101.31						
		RC -	4	98	98	7-	-100.31						
		RC	5	100	100	8-	-99.31						
9.02 End of Borehole (GWL @ 1.33m - Oct. 11, 2022)		_				9-	-98.31						
								20 Shea Undist	40 ar Str		0 h (kP Remo	a)	00

9 Auriga Drive, Ottawa, Ontario K2E 7T9

**SOIL PROFILE AND TEST DATA** 

Geotechnical Investigation 5993, 6070 and 6115 Flewellyn Road Ottawa, Ontario

**DATUM** Geodetic FILE NO. **PG5570 REMARKS** HOLE NO. **BH 1A-22** BORINGS BY CME-55 Low Clearance Drill DATE September 28, 2022 **SAMPLE** Pen. Resist. Blows/0.3m Monitoring Well Construction STRATA PLOT DEPTH ELEV. **SOIL DESCRIPTION** 50 mm Dia. Cone (m) (m) N VALUE or RQD RECOVERY NUMBER **Water Content % GROUND SURFACE** 80 20 40 0+107.31▼ **OVERBURDEN** 1 + 106.311.62 End of Borehole Practical refusal to augering at 1.62m depth (GWL @ 1.44m - Oct. 11, 2022) 40 60 80 100 Shear Strength (kPa) ▲ Undisturbed △ Remoulded

**SOIL PROFILE AND TEST DATA** 

Geotechnical Investigation 5993, 6070 and 6115 Flewellyn Road Ottawa, Ontario

9 Auriga Drive, Ottawa, Ontario K2E 7T9

DATUM Geodetic Ottawa, Ontario

FILE NO. PG5570

**REMARKS** HOLE NO. **BH 2-22** BORINGS BY CME-55 Low Clearance Drill DATE September 28, 2022 **SAMPLE** Pen. Resist. Blows/0.3m PLOT Monitoring Well Construction DEPTH ELEV. **SOIL DESCRIPTION**  50 mm Dia. Cone (m) (m) RECOVERY N VALUE or RQD STRATA NUMBER **Water Content % GROUND SURFACE** 80 20 0+103.58**TOPSOIL** 0.30 Compact, brown SILTY SAND to 1 SANDY SILT, trace clay and gravel 0.76 1+102.58RC 1 100 77 ▼ 2+101.58RC 2 100 97 3+100.58100 RC 3 100 4 + 99.58**BEDROCK:** Good to excellent quality, grey limestone interbedded with dolostone 5+98.58RC 4 100 100 6+97.585 RC 100 97 7 + 96.588+95.58RC 6 100 100 9.02 9 + 94.58End of Borehole (GWL @ 1.52m - Oct. 11, 2022) 40 60 100 Shear Strength (kPa) ▲ Undisturbed △ Remoulded

**SOIL PROFILE AND TEST DATA** 

Geotechnical Investigation 5993, 6070 and 6115 Flewellyn Road Ottawa, Ontario

9 Auriga Drive, Ottawa, Ontario K2E 7T9

DATUM Geodetic

REMARKS

FILE NO.
PG5570

HOLE NO.

**BH 3-22** BORINGS BY CME-55 Low Clearance Drill DATE September 29, 2022 **SAMPLE** Pen. Resist. Blows/0.3m Monitoring Well Construction PLOT DEPTH ELEV. **SOIL DESCRIPTION**  50 mm Dia. Cone (m) (m) RECOVERY N VALUE or RQD STRATA NUMBER Water Content % **GROUND SURFACE** 80 20 0+102.25**TOPSOIL** 0.28 1 V 1+101.25SS 2 19 58 Compact, brown SILTY SAND to SANDY SILT SS 3 58 17 2 + 100.252.21 GLACIAL TILL: Grey silty sand to SS 4 3 67 sandy silt with gravel, cobbles and boulders, trace clay 3+99.255 ≤ SS 50+ 3.43 RC 1 100 96 4 + 98.255+97.252 RC 100 98 6+96.25**BEDROCK:** Excellent quality, grey limestone interbedded with doloston RC 3 100 100 7+95.258+94.25RC 4 100 100 9+93.259.12 End of Borehole (GWL @ 0.84m - Oct. 11, 2022) 40 60 100 Shear Strength (kPa) ▲ Undisturbed △ Remoulded

#### SOIL PROFILE AND TEST DATA patersongroup Consulting Engineers **Geotechnical Investigation** 5993, 6070 and 6115 Flewellyn Road 9 Auriga Drive, Ottawa, Ontario K2E 7T9 Ottawa, Ontario FILE NO. **DATUM** Geodetic **PG5570 REMARKS** HOLE NO. **BH 3A-22** BORINGS BY CME-55 Low Clearance Drill DATE September 29, 2022 **SAMPLE** Pen. Resist. Blows/0.3m Monitoring Well Construction STRATA PLOT DEPTH ELEV. **SOIL DESCRIPTION** 50 mm Dia. Cone (m) (m) N VALUE or RQD RECOVERY NUMBER Water Content % **GROUND SURFACE** 80 20 0+102.25**TOPSOIL** 0.28 1+101.25Compact, brown SILTY SAND to SANDY SILT 1 2 + 100.252.20 GLACIAL TILL: Grey silty sand to sandy silt with gravel, cobbles and boulders, trace clay 3+99.25End of Borehole Practical refusal to augering at 3.15m depth. (GWL @ 0.81m - Oct. 11, 2022)

40

▲ Undisturbed

Shear Strength (kPa)

60

80

△ Remoulded

100

**SOIL PROFILE AND TEST DATA** 

Geotechnical Investigation 5993, 6070 and 6115 Flewellyn Road Ottawa, Ontario

9 Auriga Drive, Ottawa, Ontario K2E 7T9

**DATUM** Geodetic

**REMARKS** 

PG5570 HOLE NO. BH 4-22

FILE NO.

SOIL DESCRIPTION  GROUND SURFACE TOPSOIL 0.29			SAN	/IPLE		DEPTH	ELEV. (m)	Pen. Resist. Blows/0.3m  ■ 50 mm Dia. Cone					Well
		TYPE	NUMBER	% RECOVERY	N VALUE or RQD	(m)		O Water Content %				•	Monitoring Well
				-		0-	-105.71	20	40	60	8	U	=
<u>0.2</u> 8	<b>3</b>	AU	1					O					
Compact, brown SILTY SAND to SANDY SILT		SS N	2	75	22	1-	-104.71	0					
2.21  GLACIAL TILL: Compact to dense,	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	ss A	3	75	21	2-	-103.71	0					
rown silty sand with gravel, cobbles nd boulders, trace clay	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	∭ ss	4	67	17	3-	-102.71	0					
grey by 3.0m depth 3. <u>6</u> 1	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	∯ SS	5	57	45			d					
		RC _	1	100	84	4-	-101.71						
		RC	2	100	98	5-	-100.71						
EDROCK: Good to excellent uality, grey limestone interbedded vith dolostone		_				6-	-99.71						
		RC	3	100	100	7-	-98.71						
9.04			_		4.5.	8-	-97.71						
		RC	4	100	100	Q-	-96.71						
nd of Borehole							55.71						
GWL @ 3.62m - Oct. 11, 2022)													

**SOIL PROFILE AND TEST DATA** 

40

▲ Undisturbed

Shear Strength (kPa)

60

△ Remoulded

100

**Geotechnical Investigation** 5993, 6070 and 6115 Flewellyn Road

9 Auriga Drive, Ottawa, Ontario K2E 7T9 Ottawa, Ontario Geodetic

**DATUM** FILE NO. **PG5570 REMARKS** HOLE NO. **BH 5-22** BORINGS BY CME-55 Low Clearance Drill DATE September 30, 2022 **SAMPLE** Pen. Resist. Blows/0.3m PLOT Monitoring Well Construction **DEPTH** ELEV. **SOIL DESCRIPTION** 50 mm Dia. Cone (m) (m) RECOVERY N VALUE or RQD STRATA NUMBER Water Content % **GROUND SURFACE** 80 20 0+105.70**TOPSOIL** 0.28 Ö. 1 Compact, brown SILTY SAND to 1+104.70SS 2 79 21 **SANDY SILT** SS 3 71 29 2 + 103.70GLACIAL TILL: Compact to dense, brown silty sand to sandy silt, trace 2.29 SS 4 50+ 100 gravel .(\_) RC 1 100 100 3+102.702 RC 100 100 4+101.705+100.70BEDROCK: Excellent quality, grey RC 100 3 100 limestone interbedded with dolostone 6+99.704 100 RC 100 7 + 98.708 + 97.70RC 5 100 100 End of Borehole (GWL @ 1.62m - Oct. 11, 2022)

### **SOIL PROFILE AND TEST DATA** patersongroup Consulting Engineers **Geotechnical Investigation** 5993, 6070 and 6115 Flewellyn Road 9 Auriga Drive, Ottawa, Ontario K2E 7T9 Ottawa, Ontario **DATUM** Geodetic FILE NO. **PG5570 REMARKS** HOLE NO. **HA 1-22 BORINGS BY** Hand Auger DATE September 28, 2022 **SAMPLE** Pen. Resist. Blows/0.3m Monitoring Well Construction STRATA PLOT DEPTH ELEV. **SOIL DESCRIPTION** 50 mm Dia. Cone (m) (m) N VALUE or RQD RECOVERY NUMBER **Water Content % GROUND SURFACE** 80 20 $0 \pm 106.78$ **TOPSOIL** 0.30 Brown SILTY SAND, trace gravel 0.69 End of Hand Auger Hole (GWL @ 0.31m - Oct. 11, 2022)

40

▲ Undisturbed

Shear Strength (kPa)

60

80

△ Remoulded

100

**SOIL PROFILE AND TEST DATA** 

**Geotechnical Investigation** 

Prop. Residential Development - 6115 Flewellyn Road Ottawa, Ontario

9 Auriga Drive, Ottawa, Ontario K2E 7T9 **DATUM** Geodetic FILE NO. **PG5570 REMARKS** HOLE NO. DATE December 14, 2021 **BH 1-21 BORINGS BY** Track-Mount Power Auger **SAMPLE** Pen. Resist. Blows/0.3m Monitoring Well Construction PLOT **DEPTH** ELEV. **SOIL DESCRIPTION** 50 mm Dia. Cone (m) (m) RECOVERY N VALUE or RQD STRATA NUMBER Water Content % **GROUND SURFACE** 80 20 0+104.29**TOPSOIL** Very loose, brown SILTY SAND ΑU 1 1+103.29SS 2 8 1 - some clay by 0.6m depth 1.52 GLACIAL TILL: Compact, brown SS 3 25 23 silty sand with gravel, cobbles and 2+102.29SS 4 50+ 100 boulders, trace clay 1 RC 100 57 3+101.29**BEDROCK:** Fair to excellent quality, grey limestone interbedded with RC 2 100 68 dolostone 4+100.29- 20mm thick mud seam at 3.4m depth - 12mm thick mud at 3.7m depth 5+99.29RC 3 100 98 5.77 End of Borehole (GWL @ 1.22m - Jan. 11, 2022) 20 40 60 80 100 Shear Strength (kPa) ▲ Undisturbed △ Remoulded

Geotechnical Investigation

Prop. Residential Development - 6115 Flewellyn Road

**SOIL PROFILE AND TEST DATA** 

9 Auriga Drive, Ottawa, Ontario K2E 7T9

Ottawa, Ontario

FILE NO.

 DATUM Geodetic
 FILE NO. PG5570

 REMARKS
 HOLE NO.

 BORINGS BY Track-Mount Power Auger
 DATE December 14, 2021
 BH 2-21

ORINGS BY Track-Mount Power A				D	ATE	Decembe	1 BH 2-21				
SOIL DESCRIPTION		PLOT		SAMPLE			DEPTH		Pen. Resist. Blows/0.3m  ■ 50 mm Dia. Cone		
		STRATA	TYPE	NUMBER	% RECOVERY	N VALUE or RQD	(m)	(m)	Pen. Resist. Blows/0.3m		
ROUND SURFACE					24	4	0-	-107.19	20 40 60 80 ≥		
	. <u>10</u> .51										
ompact_brown SILTY SAND	T. T.		₹AU	1							
0	. <u>9</u> 1    ^^,	$\frac{\sqrt[3]{3}}{\sqrt{1+1}}$	ss	2	75	12	1-	-106.19			
I ACIAL TILL: Compact to done		^^^ <u>/</u>		_	/ 0	'-					
<b>LACIAL TILL:</b> Compact to dense, rown silty sand with gravel, cobbles nd boulders		^^^\	7	0	75						
nd boulders ຈ		^^^\	SS	3	75	50	2-	-105.19			
	<u>~</u>   <u>~</u>	^^^	SS RC	4 1	100	50+ 80					
	: : : : :		-	•							
EDROCK: Good to excellent							3-	-104.19			
uality, grey limestone			RC	2	100	100					
	: : : : :										
12mm thick mud seam at 4.1m			_				4-	-103.19			
epth	1 1										
	: : : : : : : : : : : : : : : : : : :										
	: : :		RC	3	100	95	5-	-102.19			
<u>5</u> nd of Borehole	.61		-						<u>                                     </u>		
GWL @ 0.82m - Jan. 11, 2022)											
									20 40 60 80 100		
									Shear Strength (kPa)		
								▲ Undisturbed △ Remoulded			

**SOIL PROFILE AND TEST DATA** 

Geotechnical Investigation

Prop. Residential Development - 6115 Flewellyn Road

▲ Undisturbed

△ Remoulded

9 Auriga Drive, Ottawa, Ontario K2E 7T9 Ottawa, Ontario **DATUM** Geodetic FILE NO. **PG5570 REMARKS** HOLE NO. **BH 3-21 BORINGS BY** Track-Mount Power Auger DATE December 15, 2021 **SAMPLE** Pen. Resist. Blows/0.3m Monitoring Well Construction PLOT **DEPTH** ELEV. **SOIL DESCRIPTION** 50 mm Dia. Cone (m) (m) RECOVERY N VALUE or RQD STRATA NUMBER Water Content % **GROUND SURFACE** 80 20 0+108.41Mulch 80.0 TOPSOIL 0.43 1 0.63 Loose, brown SILTY SAND Loose to compact, brown SILTY 1+107.41SS 2 10 50 SAND to SANDY SILT 1.55 SS 3 0 50+ 2 + 106.41RC 1 100 100 3+105.41**BEDROCK:** Good to excellent, grey limestone interbedded with dolostone RC 2 100 72 4 + 104.41- 30mm thick mud seam at 4.3m depth RC 3 100 100  $5 \pm 103.41$ 5.72 End of Borehole (GWL @ 0.89m - Jan. 11, 2022) 40 60 80 100 Shear Strength (kPa)

9 Auriga Drive, Ottawa, Ontario K2E 7T9

**SOIL PROFILE AND TEST DATA** 

Geotechnical Investigation

Prop. Residential Development - 6115 Flewellyn Road Ottawa, Ontario

**DATUM** Geodetic FILE NO. **PG5570 REMARKS** HOLE NO. **BH 4-21 BORINGS BY** Track-Mount Power Auger DATE December 15, 2021 **SAMPLE** Pen. Resist. Blows/0.3m STRATA PLOT Construction **DEPTH** ELEV. Piezometer **SOIL DESCRIPTION** 50 mm Dia. Cone (m) (m) N VALUE or RQD RECOVERY NUMBER Water Content % **GROUND SURFACE** 80 20 0+108.95Mulch 0.10 TOPSOIL 0.30 1 0.60 Compact, brown SILTY SAND, trace shells 1+107.95SS 2 12 50 GLACIAL TILL: Compact, brown silty sand with gravel, cobbles and SS 3 42 21 boulders 2 + 106.952.23 End of Borehole Practical refusal to augering at 2.23m depth (GWL @ 1.23m - Jan. 11, 2022) 40 60 80 100 Shear Strength (kPa) ▲ Undisturbed △ Remoulded

Geotechnical Investigation

9 Auriga Drive, Ottawa, Ontario K2E 7T9

Prop. Residential Development - 6115 Flewellyn Road Ottawa, Ontario

**SOIL PROFILE AND TEST DATA** 

**DATUM** Geodetic FILE NO. **PG5570 REMARKS** HOLE NO. **BH 5-21 BORINGS BY** Track-Mount Power Auger DATE December 15, 2021 **SAMPLE** Pen. Resist. Blows/0.3m STRATA PLOT Construction **DEPTH** ELEV. Piezometer **SOIL DESCRIPTION** 50 mm Dia. Cone (m) (m) N VALUE or RQD RECOVERY NUMBER Water Content % **GROUND SURFACE** 80 20 0+108.38**TOPSOIL** 0.36 1 Loose, brown SILTY SAND 1 + 107.38SS 2 4 GLACIAL TILL: Dense, grey silty sand with gravel, cobbles and SS 3 0 50 +boulders End of Borehole Practical refusal to augering at 1.62m depth (BH dry - January 11, 2022) 40 60 80 100 Shear Strength (kPa) ▲ Undisturbed △ Remoulded

**SOIL PROFILE AND TEST DATA** 

Geotechnical Investigation

Prop. Residential Development - 6115 Flewellyn Road

9 Auriga Drive, Ottawa, Ontario K2E 7T9 Ottawa, Ontario **DATUM** Geodetic FILE NO. **PG5570 REMARKS** HOLE NO. **BH 6-21 BORINGS BY** Track-Mount Power Auger DATE December 15, 2021 **SAMPLE** Pen. Resist. Blows/0.3m STRATA PLOT Construction **DEPTH** ELEV. Piezometer **SOIL DESCRIPTION** 50 mm Dia. Cone (m) (m) N VALUE or RQD RECOVERY NUMBER Water Content % **GROUND SURFACE** 80 20 0+106.32**TOPSOIL** 0.60 1 -AU Loose, brown SILTY SAND, trace clay 1 + 105.32GLACIAL TILL: Compact to dense, SS 2 83 17 brown silty sand with gravel, cobbles and boulders End of Borehole Practical refusal to augering at 1.55m depth (BH dry - January 11, 2022) 40 60 80 100 Shear Strength (kPa) ▲ Undisturbed △ Remoulded

Prop. Residential Development - 6115 Flewellyn Road

9 Auriga Drive, Ottawa, Ontario K2E 7T9

Geotechnical Investigation Ottawa, Ontario

**SOIL PROFILE AND TEST DATA** 

**DATUM** Geodetic FILE NO. **PG5570 REMARKS** HOLE NO. **BH 7-21 BORINGS BY** Track-Mount Power Auger DATE December 15, 2021 **SAMPLE** Pen. Resist. Blows/0.3m Piezometer Construction STRATA PLOT **DEPTH** ELEV. **SOIL DESCRIPTION** 50 mm Dia. Cone (m) (m) N VALUE or RQD RECOVERY NUMBER Water Content % **GROUND SURFACE** 80 20 0 + 107.04Mulch 0.10 1 **TOPSOIL** <u>0.41</u> Loose, brown SILTY SAND 0.60 1 + 106.04SS 2 100 19 GLACIAL TILL: Compact to dense, brown silty sand with gravel, cobbles SS 3 67 44 and boulders 2 + 105.04SS 52 4 2.97 End of Borehole Practical refusal to augering at 2.97m (GWL @ 1.09m - Jan. 11, 2022) 40 60 80 100 Shear Strength (kPa) ▲ Undisturbed △ Remoulded

**SOIL PROFILE AND TEST DATA** 

Geotechnical Investigation

Prop. Residential Development - 6115 Flewellyn Road Ottawa, Ontario

9 Auriga Drive, Ottawa, Ontario K2E 7T9 **DATUM** Geodetic FILE NO. **PG5570 REMARKS** HOLE NO. **BH 8-21 BORINGS BY** Track-Mount Power Auger DATE December 15, 2021 **SAMPLE** Pen. Resist. Blows/0.3m STRATA PLOT Construction **DEPTH** ELEV. Piezometer **SOIL DESCRIPTION** 50 mm Dia. Cone (m) (m) N VALUE or RQD RECOVERY NUMBER Water Content % **GROUND SURFACE** 80 20 0+105.91Mulch 0.05 1 TOPSOIL 0.38 0.60 Loose, brown SILTY SAND 1 + 104.91GLACIAL TILL: Compact to dense, SS 2 20 67 brown silty sand with gravel, cobbles and boulders 1.60 .SS 3 0 50+ End of Borehole Practical refusal to augering at 1.60m (BH dry - January 11, 2022) 40 60 80 100 Shear Strength (kPa) ▲ Undisturbed △ Remoulded

Prop. Residential Development - 6115 Flewellyn Road

**SOIL PROFILE AND TEST DATA** 

9 Auriga Drive, Ottawa, Ontario K2E 7T9

Geotechnical Investigation Ottawa, Ontario

**DATUM** Geodetic FILE NO. **PG5570 REMARKS** HOLE NO. **BH 9-21 BORINGS BY** Track-Mount Power Auger DATE December 15, 2021 **SAMPLE** Pen. Resist. Blows/0.3m STRATA PLOT Construction **DEPTH** ELEV. Piezometer **SOIL DESCRIPTION** 50 mm Dia. Cone (m) (m) N VALUE or RQD RECOVERY NUMBER Water Content % **GROUND SURFACE** 80 20 0+104.62**TOPSOIL** Loose, brown SILTY SAND, trace 1 0.69 2 50+ GLACIAL TILL: Compact to dense, 1 + 103.62brown silty sand with gravel, cobbles 22 and boulders End of Borehole Practical refusal to augering at 1.22m depth (Piezometer damaged - Jan. 11, 2022) 40 60 80 100 Shear Strength (kPa) ▲ Undisturbed △ Remoulded

**Geotechnical Investigation** 

Prop. Residential Development - 6115 Flewellyn Road

**SOIL PROFILE AND TEST DATA** 

9 Auriga Drive, Ottawa, Ontario K2E 7T9 Ottawa, Ontario **DATUM** Geodetic FILE NO.

**PG5570 REMARKS** HOLE NO. BH10-21 **BORINGS BY** Track-Mount Power Auger DATE December 15, 2021 **SAMPLE** Pen. Resist. Blows/0.3m Piezometer Construction STRATA PLOT **DEPTH** ELEV. **SOIL DESCRIPTION** 50 mm Dia. Cone (m) (m) N VALUE or RQD RECOVERY NUMBER Water Content % **GROUND SURFACE** 80 20 0+105.70**TOPSOIL** 0.36 1 1+104.70SS 2 23 67 Compact, brown SILTY SAND SS 3 67 16 2 + 103.70SS 4 25 64 GLACIAL TILL: Compact to dense, 2.84 grey silty sand with gravel, cobbles and boulders End of Borehole Practical refusal to augering at 2.84m depth (GWL @ 2.83m - Jan. 11, 2022) 40 60 80 100 Shear Strength (kPa) ▲ Undisturbed △ Remoulded

**SOIL PROFILE AND TEST DATA** 

9 Auriga Drive, Ottawa, Ontario K2E 7T9

Geotechnical Investigation Prop. Residential Development - 6115 Flewellyn Road Ottawa, Ontario

<b>DATUM</b> Geodetic						<b>,</b> -			FILE NO. PG5570		
REMARKS				_		<b>.</b>	10.000	N.	HOLE NO.		
BORINGS BY Track-Mount Power Auge					OATE	Decembe	er 16, 202		BH11-21		
SOIL DESCRIPTION		SAN		MPLE		DEPTH (m)	ELEV. (m)	Pen. Resist. Blows/0.3m  ■ 50 mm Dia. Cone			
	STRATA	TKATA PLOT	NUMBER	RECOVERY	N VALUE or RQD	()	(111)	- N	O mm Dia. Cone Vater Content %		
GROUND SURFACE	ST	H	N	REC	N O H			20	40 60 80		
TOPSOIL 0.33	3					0-	104.98				
Compact, brown <b>SILTY SAND</b> 0.66	-	<b>∑</b> AU	1								
Compact, brown SILTY SAND to SANDY SILT 1.12		ss	2	67	24	1-	103.98				
	^^^^		_	07					···		
GLACIAL TILL: Compact to dense, brown silty sand with gravel, cobbles and boulders	^^^^	ss	3	67	32	2-	102.98				
	\^^^^   \^^^^	≅ ss	4	80	50+						
End of Borehole											
Practical refusal to augering at 2.54m depth											
(GWL @ 1.32m - Jan. 11, 2022)											
								20 Shor	40 60 80 100 Ir Strength (kPa)		
									ur Strengtn (kPa) urbed △ Remoulded		

**Geotechnical Investigation** 

Prop. Residential Development - 6115 Flewellyn Road Ottawa, Ontario

**SOIL PROFILE AND TEST DATA** 

9 Auriga Drive, Ottawa, Ontario K2E 7T9

**DATUM** Geodetic FILE NO. **PG5570 REMARKS** HOLE NO. BH12-21 **BORINGS BY** Track-Mount Power Auger DATE December 16, 2021 **SAMPLE** Pen. Resist. Blows/0.3m STRATA PLOT Construction **DEPTH** ELEV. Piezometer **SOIL DESCRIPTION** 50 mm Dia. Cone (m) (m) N VALUE or RQD RECOVERY NUMBER Water Content % **GROUND SURFACE** 80 20 0+104.05**TOPSOIL** 0.36 Compact, brown SILTY SAND 1 0.69 Compact, brown SILTY SAND to 1+103.05SS 2 13 67 SANDY SILT GLACIAL TILL: Dense, brown silty sand with gravel, cobbles and SS 3 17 36 2 + 102.05boulders 2.26 End of Borehole Practical refusal to augering at 2.26m depth (GWL @ 1.58m - Jan. 11, 2022) 40 60 80 100 Shear Strength (kPa) ▲ Undisturbed △ Remoulded

atachnical Investigation

**SOIL PROFILE AND TEST DATA** 

20

▲ Undisturbed

40

Shear Strength (kPa)

60

80

△ Remoulded

100

**Geotechnical Investigation** Prop. Residential Development - 6115 Flewellyn Road 9 Auriga Drive, Ottawa, Ontario K2E 7T9 Ottawa, Ontario **DATUM** Geodetic FILE NO. **PG5570 REMARKS** HOLE NO. BH13-21 **BORINGS BY** Track-Mount Power Auger DATE December 16, 2021 **SAMPLE** Pen. Resist. Blows/0.3m Piezometer Construction STRATA PLOT **DEPTH** ELEV. **SOIL DESCRIPTION** 50 mm Dia. Cone (m) (m) N VALUE or RQD RECOVERY NUMBER Water Content % **GROUND SURFACE** 80 20 0+103.54**TOPSOIL** 0.36 1 Loose, brown SILTY SAND to 1 + 102.54**SANDY SILT** SS 2 25 6 1.60 SS 3 50+ End of Borehole Practical refusal to augering at 1.60m (GWL @ 1.44m - Jan. 11, 2022)

9 Auriga Drive, Ottawa, Ontario K2E 7T9

**SOIL PROFILE AND TEST DATA** 

**Geotechnical Investigation** 

Prop. Residential Development - 6115 Flewellyn Road Ottawa, Ontario

**DATUM** Geodetic FILE NO. **PG5570 REMARKS** HOLE NO. BH14-21 **BORINGS BY** Track-Mount Power Auger DATE December 16, 2021 **SAMPLE** Pen. Resist. Blows/0.3m STRATA PLOT Construction **DEPTH** ELEV. Piezometer **SOIL DESCRIPTION** 50 mm Dia. Cone (m) (m) N VALUE or RQD RECOVERY NUMBER Water Content % **GROUND SURFACE** 80 20 0+103.28**TOPSOIL** 0.36 Loose, brown SILTY SAND 1 0.69 Loose, brown SILTY SAND to 1+102.28SS 2 6 67 **SANDY SILT** GLACIAL TILL: Loose to dense, SS 3 25 7 brown silty sand with clay, gravel, 2+101.28cobbles and boulders 2.34 SS 4 0 50+ End of Borehole Practical refusal to augering at 2.34m depth (GWL @ 1.37m - Jan. 11, 2022) 40 60 80 100 Shear Strength (kPa) ▲ Undisturbed △ Remoulded

**SOIL PROFILE AND TEST DATA** 

Geotechnical Investigation

Prop. Residential Development - 6115 Flewellyn Road

9 Auriga Drive, Ottawa, Ontario K2E 7T9 Ottawa, Ontario **DATUM** Geodetic FILE NO. **PG5570 REMARKS** HOLE NO. BH15-21 **BORINGS BY** Track-Mount Power Auger DATE December 16, 2021 **SAMPLE** Pen. Resist. Blows/0.3m STRATA PLOT Construction **DEPTH** ELEV. Piezometer **SOIL DESCRIPTION** 50 mm Dia. Cone (m) (m) N VALUE or RQD RECOVERY NUMBER Water Content % **GROUND SURFACE** 80 20 0+103.08**TOPSOIL** 0.30 Compact, brown SILTY SAND to ΑU 1 **SANDY SILT** GLACIAL TILL: Compact, brown silty 2 19 1 + 102.0863 sand with gravel, cobbles and boulders End of Borehole Practical refusal to augering at 1.27m (GWL @ 0.92m - Jan. 11, 2022) 40 60 80 100 Shear Strength (kPa) ▲ Undisturbed △ Remoulded

**SOIL PROFILE AND TEST DATA** 

Geotechnical Investigation

Prop. Residential Development - 6115 Flewellyn Road

9 Auriga Drive, Ottawa, Ontario K2E 7T9 Ottawa, Ontario **DATUM** Geodetic FILE NO. **PG5570 REMARKS** HOLE NO. BH16-21 **BORINGS BY** Track-Mount Power Auger DATE December 16, 2021 **SAMPLE** Pen. Resist. Blows/0.3m STRATA PLOT Construction **DEPTH** ELEV. Piezometer **SOIL DESCRIPTION** 50 mm Dia. Cone (m) (m) N VALUE or RQD RECOVERY NUMBER Water Content % **GROUND SURFACE** 80 20 0+104.19**TOPSOIL** 0.25 Compact, brown SILTY SAND, trace 1 gravel GLACIAL TILL: Compact, brown silty 1 + 103.19SS 2 22 sand with gravel, cobbles and boulders 1.50 End of Borehole Practical refusal to augering at 1.50m depth (GWL @ 1.32m - Jan. 11, 2022) 40 60 80 100 Shear Strength (kPa) ▲ Undisturbed △ Remoulded

Geotechnical Investigation

Prop. Residential Development - 6115 Flewellyn Road Ottawa, Ontario

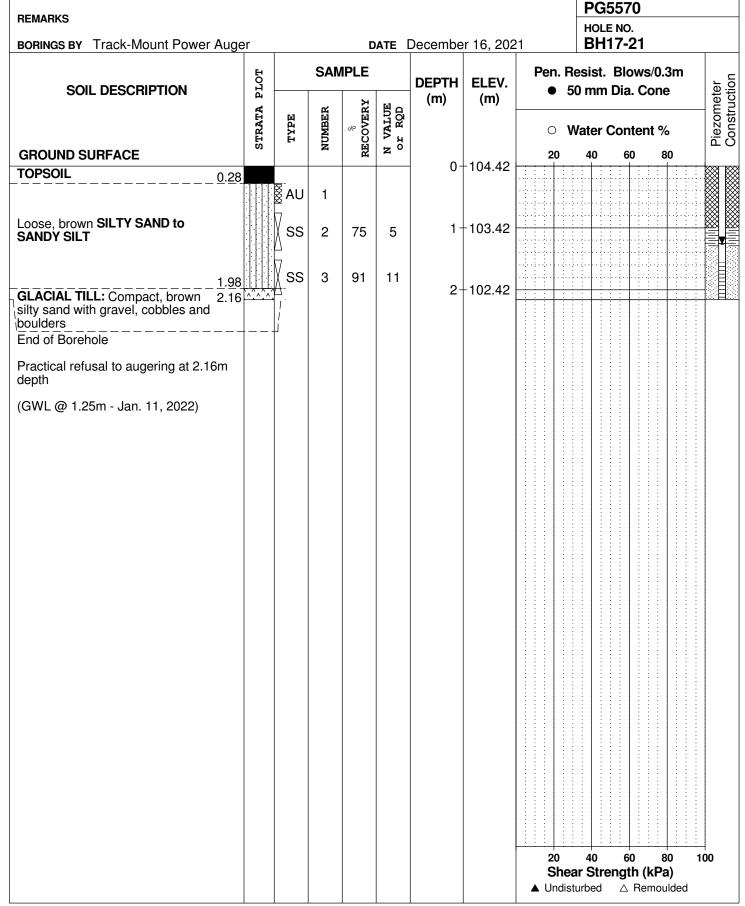
**SOIL PROFILE AND TEST DATA** 

9 Auriga Drive, Ottawa, Ontario K2E 7T9

Geodetic

**DATUM** 

FILE NO.



**SOIL PROFILE AND TEST DATA** 

Prop. Residential Development - 6115 Flewellyn Road

▲ Undisturbed

△ Remoulded

9 Auriga Drive, Ottawa, Ontario K2E 7T9

Geotechnical Investigation Ottawa, Ontario

**DATUM** Geodetic FILE NO. **PG5570 REMARKS** HOLE NO. BH18-21 **BORINGS BY** Track-Mount Power Auger DATE December 16, 2021 **SAMPLE** Pen. Resist. Blows/0.3m Piezometer Construction STRATA PLOT **DEPTH** ELEV. **SOIL DESCRIPTION** 50 mm Dia. Cone (m) (m) N VALUE or RQD RECOVERY NUMBER Water Content % **GROUND SURFACE** 80 20 0+105.06**TOPSOIL** 0.30 ΑU 1 1+104.06SS 2 75 10 Compact, brown SILTY SAND to **SANDY SILT** SS 3 100 19 2 + 103.06- grey by 2.0m depth SS 4 50+ 2.67 End of Borehole Practical refusal to augering at 2.67m depth (GWL @ 1.40m - Jan. 11, 2022) 20 40 60 80 100 Shear Strength (kPa)

Prop. Residential Development - 6115 Flewellyn Road

9 Auriga Drive, Ottawa, Ontario K2E 7T9

**Geotechnical Investigation** Ottawa, Ontario

**SOIL PROFILE AND TEST DATA** 

**DATUM** Geodetic FILE NO. **PG5570 REMARKS** HOLE NO. BH19-21 **BORINGS BY** Track-Mount Power Auger DATE December 16, 2021 **SAMPLE** Pen. Resist. Blows/0.3m STRATA PLOT Construction **DEPTH** ELEV. Piezometer **SOIL DESCRIPTION** 50 mm Dia. Cone (m) (m) RECOVERY N VALUE or RQD NUMBER Water Content % **GROUND SURFACE** 80 20 0+101.85**TOPSOIL** 0.20 ΑU 1 Compact, brown SILTY SAND to 1+100.85SANDY SILT SS 2 12 50 1.73 SS 3 75 8 2+99.85Loose, brown SILTY SAND, some 2.59 SS 4 100 12 GLACIAL TILL: Compact, grey silty2.84 \^.^.\ sand with gravel, cobbles and boulders End of Borehole Practical refusal to augering at 2.84m depth (GWL @ 1.04m - Jan. 11, 2022) 40 60 80 100 Shear Strength (kPa) ▲ Undisturbed △ Remoulded

Geotechnical Investigation

Prop. Residential Development - 6115 Flewellyn Road

**SOIL PROFILE AND TEST DATA** 

9 Auriga Drive, Ottawa, Ontario K2E 7T9

Ottawa, Ontario

**DATUM** Geodetic FILE NO. **PG5570 REMARKS** HOLE NO. DATE December 17, 2021 BH20-21 **BORINGS BY** Track-Mount Power Auger **SAMPLE** Pen. Resist. Blows/0.3m STRATA PLOT Construction **DEPTH** ELEV. Piezometer **SOIL DESCRIPTION** 50 mm Dia. Cone (m) (m) RECOVERY N VALUE or RQD NUMBER Water Content % **GROUND SURFACE** 80 20 0+102.25**TOPSOIL** 0.23 ΑU 1 1+101.25SS 2 11 58 Compact to loose, brown SILTY SAND to SANDY SILT SS 3 42 7 2 + 100.252.44 SS 75 Interlayered grey SANDY SILT and 4 3 grey SÍLTY ČLAY 3+99.253.20 SS 5 67 23 GLACIAL TILL: Compact, grey silty sand with gravel, cobbles and boulders SS 6 50+ 4 + 98.254.19 End of Borehole Practical refusal to augering at 4.19m depth (GWL @ 1.71m - Jan. 11, 2022) 20 40 60 80 100 Shear Strength (kPa) ▲ Undisturbed △ Remoulded

9 Auriga Drive, Ottawa, Ontario K2E 7T9

**SOIL PROFILE AND TEST DATA** 

Geotechnical Investigation

Prop. Residential Development - 6115 Flewellyn Road Ottawa, Ontario

**DATUM** Geodetic FILE NO. **PG5570 REMARKS** HOLE NO. DATE December 17, 2021 **BH21-21 BORINGS BY** Track-Mount Power Auger **SAMPLE** Pen. Resist. Blows/0.3m Piezometer Construction STRATA PLOT **DEPTH** ELEV. **SOIL DESCRIPTION** 50 mm Dia. Cone (m) (m) N VALUE or RQD RECOVERY NUMBER Water Content % **GROUND SURFACE** 80 20 0+102.92**TOPSOIL** 0.25 ΑU 1 Loose, brown SILTY SAND to SANDY SILT <u>1.0</u>7 1+101.92SS 2 42 36 GLACIAL TILL: Dense, brown silty sand with gravel, cobbles and SS 3 50 71 boulders 2 + 100.922.23 End of Borehole Practical refusal to augering at 2.23m depth (Piezometer damaged - Jan. 11, 2022) 40 60 80 100 Shear Strength (kPa) ▲ Undisturbed △ Remoulded

**SOIL PROFILE AND TEST DATA** 

9 Auriga Drive, Ottawa, Ontario K2E 7T9

Geotechnical Investigation
Prop. Residential Development - 6115 Flewellyn Road
Ottawa, Ontario

**DATUM** Geodetic FILE NO. **PG5570 REMARKS** HOLE NO. **BH22-21 BORINGS BY** Track-Mount Power Auger DATE December 20, 2021 **SAMPLE** Pen. Resist. Blows/0.3m STRATA PLOT Construction **DEPTH** ELEV. Piezometer **SOIL DESCRIPTION** 50 mm Dia. Cone (m) (m) RECOVERY N VALUE or RQD NUMBER Water Content % **GROUND SURFACE** 80 20 0+102.98**TOPSOIL** 0.20 Loose, brown SILTY SAND, trace 1 0.69 gravel 1+101.98SS 2 100 22 GLACIAL TILL: Compact to dense, brown silty sand with gravel, cobbles SS 3 92 29 2 + 100.98and boulders SS 4 83 46 3+99.98SS 5 50 50+ 3.48 End of Borehole Practical refusal to augering at 3.48m depth. 20 40 60 80 100 Shear Strength (kPa) ▲ Undisturbed △ Remoulded

**SOIL PROFILE AND TEST DATA** 

**Geotechnical Investigation** 

Prop. Residential Development - 6115 Flewellyn Road

▲ Undisturbed

△ Remoulded

9 Auriga Drive, Ottawa, Ontario K2E 7T9 Ottawa, Ontario **DATUM** Geodetic FILE NO. **PG5570 REMARKS** HOLE NO. **BH22A-21 BORINGS BY** Track-Mount Power Auger DATE January 10, 2022 **SAMPLE** Pen. Resist. Blows/0.3m Monitoring Well Construction PLOT DEPTH ELEV. **SOIL DESCRIPTION** 50 mm Dia. Cone (m) (m) RECOVERY N VALUE or RQD STRATA NUMBER Water Content % **GROUND SURFACE** 80 20 0+102.98**TOPSOIL** 0.20 Loose, brown SILTY SAND, trace 1 0.69 gravel 1+101.98SS 2 100 22 SS 3 92 29 2 + 100.98SS 4 83 46 GLACIAL TILL: Compact to dense, brown silty sand with gravel, cobbles 3+99.98and boulders SS 5 50 50+ RC 1 77 4 + 98.98RC 2 14 5+97.985.97 6 + 96.98RC 3 100 94 7+95.98**BEDROCK:** Excellent quality, grey dolostone interbedded with grey RC 4 100 100 8 + 94.98limestone 9 + 93.985 RC 100 100 10+92.98End of Borehole (GWL @ 2.49m - Jan. 11, 2022) 20 40 60 80 100 Shear Strength (kPa)

**SOIL PROFILE AND TEST DATA** 

9 Auriga Drive, Ottawa, Ontario K2E 7T9

Geotechnical Investigation
Prop. Residential Development - 6115 Flewellyn Road
Ottawa Ontario

• • • • • • • • • • • • • • • • • • •					Ot	tawa, Or	ntario				
DATUM Geodetic									FILE NO.		
REMARKS									HOLE NO		
BORINGS BY Track-Mount Power Auge	r			D	ATE İ	Decembe	r 20, 202	21	BH23-		
SOIL DESCRIPTION	PLOT		SAN	IPLE		DEPTH (m)	ELEV. (m)	Pen. Resist. Blows/0.3m  ■ 50 mm Dia. Cone			
	STRATA	TYPE	IBER	% RECOVERY	N VALUE or RQD			W	O Water Content %		
GROUND SURFACE	STI	LT NON		RECO	NON		400.00	20 40 60 80			Piezometer Construction
TOPSOIL 0.28						0-	102.38				
Stiff, brown <b>SILTY CLAY</b> , some sand		<b>&amp; AU</b> ∏	1								
GLACIAL TILL: Dense, brown silty sand with gravel, cobbles and		SS	2	25	32	1-	101.38				
boulders, trace clay1.83 End of Borehole	\^^^^	<u>∑</u> ss	3	55							
Practical refusal to augering at 1.83m depth											
(Piezometer damaged - Jan. 11, 2022)								20	40 6	50 80 1	00
								Shea  ▲ Undist	r Streng	th (kPa) Remoulded	

**SOIL PROFILE AND TEST DATA** 

**Geotechnical Investigation** 

Prop. Residential Development - 6115 Flewellyn Road

▲ Undisturbed

△ Remoulded

9 Auriga Drive, Ottawa, Ontario K2E 7T9 Ottawa, Ontario **DATUM** Geodetic FILE NO. **PG5570 REMARKS** HOLE NO. BH24-21 **BORINGS BY** Track-Mount Power Auger DATE December 20, 2021 **SAMPLE** Pen. Resist. Blows/0.3m Monitoring Well Construction PLOT **DEPTH** ELEV. **SOIL DESCRIPTION**  50 mm Dia. Cone (m) (m) RECOVERY N VALUE or RQD STRATA NUMBER Water Content % **GROUND SURFACE** 80 0+103.07**TOPSOIL** 0.30 ΑU 1 Loose to dense, brown SILTY 1+102.07**SAND to SANDY SILT** SS 2 8 58 1.83 3 75 32 2 + 101.07SS 4 50 50+ RC GLACIAL TILL: Dense, brown silty 1 100 sand with gravel, cobbles and 3+100.07boulders RC 2 19 - boulders cored from 2.46 to 4.42m depth 4 + 99.075 + 98.07RC 3 100 81 **BEDROCK:** Good to excellent quality, grey limestone interbedded 6 + 97.07with dolostone RC 4 100 100 - 15mm thick mud seam at 5.25m depth 7 + 96.07RC 5 100 100 7.92 End of Borehole (GWL @ 0.67m - Jan. 11, 2022) 20 40 60 80 100 Shear Strength (kPa)

**SOIL PROFILE AND TEST DATA** 

**Geotechnical Investigation** 

Prop. Residential Development - 6115 Flewellyn Road

9 Auriga Drive, Ottawa, Ontario K2E 7T9 Ottawa, Ontario **DATUM** Geodetic FILE NO. **PG5570 REMARKS** HOLE NO. BH25-21 **BORINGS BY** Track-Mount Power Auger DATE December 21, 2021 **SAMPLE** Pen. Resist. Blows/0.3m Piezometer Construction STRATA PLOT **DEPTH** ELEV. **SOIL DESCRIPTION** 50 mm Dia. Cone (m) (m) N VALUE or RQD RECOVERY NUMBER Water Content % **GROUND SURFACE** 80 20 0+102.73**TOPSOIL** 0.25 ΑU 1 Loose, brown SILTY SAND, trace clay and gravel SS 2 71 50+ 1 + 101.73End of Borehole Practical refusal to augering at 1.17m depth (GWL @ 0.71m - Jan. 11, 2022) 20 40 60 80 100 Shear Strength (kPa) ▲ Undisturbed △ Remoulded

Geotechnical Investigation

Prop. Residential Development - 6115 Flewellyn Road

9 Auriga Drive, Ottawa, Ontario K2E 7T9

Ottawa, Ontario

▲ Undisturbed

△ Remoulded

**SOIL PROFILE AND TEST DATA** 

**DATUM** Geodetic FILE NO. **PG5570 REMARKS** HOLE NO. BH26-21 **BORINGS BY** Track-Mount Power Auger DATE December 21, 2021 **SAMPLE** Pen. Resist. Blows/0.3m STRATA PLOT Construction **DEPTH** ELEV. Piezometer **SOIL DESCRIPTION** 50 mm Dia. Cone (m) (m) N VALUE or RQD RECOVERY NUMBER Water Content % **GROUND SURFACE** 80 20 0 + 103.04TOPSOIL 0.25 Stiff, brown SILTY CLAY, some sand 1  $\leq$  SS 2 40 50 +1+102.04GLACIAL TILL: Dense, brown silty sand with gravel, cobbles and boulders, trace clay 3 SS 61 33 2 + 101.042.16 End of Borehole Practical refusal to augering at 2.16m depth (GWL @ 0.78m - Jan. 11, 2022) 20 40 60 80 100 Shear Strength (kPa)

9 Auriga Drive, Ottawa, Ontario K2E 7T9

**SOIL PROFILE AND TEST DATA** 

Geotechnical Investigation Prop. Residential Development - 6115 Flewellyn Road Ottawa, Ontario

**DATUM** Geodetic FILE NO. **PG5570 REMARKS** HOLE NO. **BH27-21 BORINGS BY** Track-Mount Power Auger DATE December 21, 2021 **SAMPLE** Pen. Resist. Blows/0.3m STRATA PLOT Construction **DEPTH** ELEV. Piezometer **SOIL DESCRIPTION** 50 mm Dia. Cone (m) (m) RECOVERY N VALUE or RQD NUMBER Water Content % **GROUND SURFACE** 80 20 0+102.71**TOPSOIL** 0.28 ΑU 1 1+101.71SS 2 19 67 Compact to loose, brown SILTY SAND to SANDY SILT, trace clay SS 3 83 21 2 + 100.71- grey by 2.4m depth SS 4 50 9 3+99.71GLACIAL TILL: Very loose, grey silty 43 \^^^ SS 5 86 3 sand with gravel, cobbles and boulders End of Borehole Practical refusal to augering at 3.43m depth (GWL @ 0.84m - Jan. 11, 2022) 20 40 60 80 100 Shear Strength (kPa) ▲ Undisturbed △ Remoulded

9 Auriga Drive, Ottawa, Ontario K2E 7T9

**SOIL PROFILE AND TEST DATA** 

Geotechnical Investigation Prop. Residential Development - 6115 Flewellyn Road Ottawa, Ontario

**DATUM** Geodetic FILE NO. **PG5570 REMARKS** HOLE NO. **BH28-21 BORINGS BY** Track-Mount Power Auger DATE December 21, 2021 **SAMPLE** Pen. Resist. Blows/0.3m STRATA PLOT Construction **DEPTH** ELEV. Piezometer **SOIL DESCRIPTION** 50 mm Dia. Cone (m) (m) RECOVERY N VALUE or RQD NUMBER Water Content % **GROUND SURFACE** 80 20 0+101.85**TOPSOIL** 0.30 ΑU 1 1+100.85SS 2 42 7 Loose, brown SILTY SAND to SANDY SILT, trace clay SS 3 58 8 2+99.85Interbedded layers of grey SILTY SS 2 4 100 SAND and grey SILTY CLAY 3+98.85GLACIAL TILL: Very loose, grey silty 5 SS 100 3 sand with clay, gravel and cobbles SS 6 50+ End of Borehole Practical refusal to augering at 3.89m depth (GWL @ 1.79m - Jan. 11, 2022) 40 60 80 100 Shear Strength (kPa) ▲ Undisturbed △ Remoulded

9 Auriga Drive, Ottawa, Ontario K2E 7T9

**SOIL PROFILE AND TEST DATA** 

Geotechnical Investigation

Prop. Residential Development - 6115 Flewellyn Road Ottawa, Ontario

**DATUM** Geodetic FILE NO. **PG5570 REMARKS** HOLE NO. BH29-21 **BORINGS BY** Track-Mount Power Auger DATE December 21, 2021 **SAMPLE** Pen. Resist. Blows/0.3m Piezometer Construction STRATA PLOT **DEPTH** ELEV. **SOIL DESCRIPTION** 50 mm Dia. Cone (m) (m) RECOVERY N VALUE or RQD NUMBER Water Content % **GROUND SURFACE** 80 20 0+102.31**TOPSOIL** 0.28 ΑU 1 1+101.31SS 2 9 50 Loose to very loose, brown SILTY SAND to SANDY SILT, trace clay SS 3 67 8 2 + 100.31- grey by 1.9m depth SS 4 67 4 3+99.31- intermittent layers of grey silty clay by 3.0m depth SS 5 58 2 3.96 6 67 End of Borehole Practical refusal to augering at 3.96m depth (Piezometer damaged - Jan. 11, 2022) 20 40 60 80 100 Shear Strength (kPa) ▲ Undisturbed △ Remoulded

Prop. Residential Development - 6115 Flewellyn Road

9 Auriga Drive, Ottawa, Ontario K2E 7T9

**Geotechnical Investigation** Ottawa, Ontario

**SOIL PROFILE AND TEST DATA** 

**DATUM** Geodetic FILE NO. **PG5570 REMARKS** HOLE NO. BH30-21 **BORINGS BY** Track-Mount Power Auger DATE December 21, 2021 **SAMPLE** Pen. Resist. Blows/0.3m STRATA PLOT Construction **DEPTH** ELEV. Piezometer **SOIL DESCRIPTION** 50 mm Dia. Cone (m) (m) RECOVERY N VALUE or RQD NUMBER Water Content % **GROUND SURFACE** 80 20 0+102.44**TOPSOIL** 0.25 ΑU 1 1+101.44SS 2 12 50 Compact to very loose, brown SILTY SAND to SANDY SILT, trace clay SS 3 33 10 2 + 100.44- grey by 2.0m depth SS 4 92 1 3+99.445 3.45 83 2 **GLACIAL TILL:** Very loose to 4 + 98.4424 SS 6 33 compact, grey silty sand with gravel, cobbles and boulders, trace clay SS 7 50+ 50 4.82 End of Borehole Practical refusal to augering at 4.82m depth (GWL @ 1.62m - Jan. 11, 2022) 20 40 60 80 100 Shear Strength (kPa) ▲ Undisturbed △ Remoulded

SOIL PROFILE AND TEST DATA

9 Auriga Drive, Ottawa, Ontario K2E 7T9

Geotechnical Investigation Prop. Residential Development - 6115 Flewellyn Road Ottawa, Ontario

**DATUM** Geodetic FILE NO. **PG5570 REMARKS** HOLE NO. **BH31-21 BORINGS BY** Track-Mount Power Auger DATE December 21, 2021 **SAMPLE** Pen. Resist. Blows/0.3m STRATA PLOT Construction **DEPTH** ELEV. Piezometer **SOIL DESCRIPTION** 50 mm Dia. Cone (m) (m) RECOVERY N VALUE or RQD NUMBER Water Content % **GROUND SURFACE** 80 20 0+103.43**TOPSOIL** 0.36 1 1+102.43SS 2 14 50 SS 3 50 22 2 + 101.43Compact to loose, brown SILTY SAND to SANDY SILT, trace clay SS 4 42 9 3+100.43SS 5 58 5 - grey by 3.2m depth 4 + 99.436 SS 42 12 4.72 SS 7 37 58 5+98.43GLACIAL TILL: Dense, grey silty sand with gravel, cobbles and SS 8 58 boulders 6 + 97.436.12 SS 9 0 50+ End of Borehole Practical refusal to augering at 6.12m depth (GWL @ 1.27m - Jan. 11, 2022) 20 40 60 80 100 Shear Strength (kPa) ▲ Undisturbed △ Remoulded

# patersongroup Consulting Engineers 9 Auriga Drive, Ottawa, Ontario K2E 7T9

**SOIL PROFILE AND TEST DATA** 

Geotechnical Investigation
Prop. Residential Development - 6115 Flewellyn Road
Ottawa, Ontario

**DATUM** Geodetic FILE NO. **PG5570 REMARKS** HOLE NO. BH32-21 **BORINGS BY** Track-Mount Power Auger DATE December 21, 2021 **SAMPLE** Pen. Resist. Blows/0.3m STRATA PLOT Construction **DEPTH** ELEV. Piezometer **SOIL DESCRIPTION** 50 mm Dia. Cone (m) (m) N VALUE or RQD RECOVERY NUMBER Water Content % **GROUND SURFACE** 80 20 0 + 103.74**TOPSOIL** 0.15 ΑU 1 Compact to dense, brown SILTY 1+102.74SS 2 39 SAND to SANDY SILT 67 - grey 1.4m depth SS 3 67 26 2 + 101.74GLACIAL TILL: Grey silty sand with 2.36 SS 4 50+ 50 gravel, cobbles and boulders End of Borehole Practical refusal to augering at 2.36m depth (GWL @ 1.62m - Jan. 11, 2022) 20 40 60 80 100 Shear Strength (kPa) ▲ Undisturbed △ Remoulded

**SOIL PROFILE AND TEST DATA** 

9 Auriga Drive, Ottawa, Ontario K2E 7T9

Geotechnical Investigation Prop. Residential Development - 6115 Flewellyn Road Ottawa, Ontario

DATUM Geodetic									FILE N				
REMARKS									HOLE	NO.			
BORINGS BY Track-Mount Power Auger DATE December 22, 2021									BH33-21				
SOIL DESCRIPTION			SAMPLE			DEPTH (m)	ELEV. (m)	Pen. Resist. Blows/0.3m  ■ 50 mm Dia. Cone					
	STRATA	TYPE	NUMBER	% RECOVERY	N VALUE or RQD			O Water Content %					
GROUND SURFACE	02		-	22	z °	0-	104.70	20	40	60 80	Monitoring Well Construction		
Compact, brown <b>SILTY SAND</b> , trace clay and organics		\times AU \times SS	1 2	50	13		-103.70						
GLACIAL TILL: Compact, brown silty sand with gravel, cobbles and boulders		SS	3	8 30	11	2-	-102.70						
		RC	2	100	73	3-	101.70						
BEDROCK: Good to excellent quality, grey limestone  - 25mm thick mud seam at 3.7m		RC	3	95	85		-100.70 -99.70						
depth - 30mm thick mud seam at 3.8m depth 6.27		RC	4	100	100		-98.70						
End of Borehole													
(GWL @ 1.84m - Jan. 11, 2022)								20	40		000		
							▲ Undist		ngth (kPa) △ Remoulded				

**SOIL PROFILE AND TEST DATA** 

**Geotechnical Investigation** 

Prop. Residential Development - 6115 Flewellyn Road

▲ Undisturbed

△ Remoulded

9 Auriga Drive, Ottawa, Ontario K2E 7T9 Ottawa, Ontario **DATUM** Geodetic FILE NO. **PG5570 REMARKS** HOLE NO. BH34-21 **BORINGS BY** Track-Mount Power Auger DATE December 22, 2021 **SAMPLE** Pen. Resist. Blows/0.3m Piezometer Construction STRATA PLOT **DEPTH** ELEV. **SOIL DESCRIPTION** 50 mm Dia. Cone (m) (m) RECOVERY VALUE r RQD NUMBER Water Content % N VZ **GROUND SURFACE** 80 20 0+102.65**TOPSOIL** 0.25 5 1 17 8 ΑU 1+101.65Compact to loose, brown SILTY SS 2 42 10 SAND to SANDY SILT SS 3 25 9 2+100.65SS 2 4 17 3+99.65GLACIAL TILL: Very loose to loose, grey silty sand with gravel, cobbles and boulders, trace clay RC 1 31 4 + 98.65RC 2 100 100 5+97.65BEDROCK: Excellent quality, grey limestone interbedded with dolostone 6 + 96.65RC 3 100 100 6.61 End of Borehole 20 40 60 80 100 Shear Strength (kPa)

Prop. Residential Development - 6115 Flewellyn Road

9 Auriga Drive, Ottawa, Ontario K2E 7T9

Geotechnical Investigation Ottawa, Ontario

**SOIL PROFILE AND TEST DATA** 

**DATUM** Geodetic FILE NO. **PG5570 REMARKS** HOLE NO. BH35-21 **BORINGS BY** Track-Mount Power Auger DATE January 7, 2022 **SAMPLE** Pen. Resist. Blows/0.3m STRATA PLOT Construction DEPTH ELEV. Piezometer **SOIL DESCRIPTION** 50 mm Dia. Cone (m) (m) N VALUE or RQD RECOVERY NUMBER Water Content % **GROUND SURFACE** 80 20 0+105.03**TOPSOIL** 0.28 ΑU 1 Loose to compact, brown SILTY SAND to SANDY SILT 1+104.03SS 2 7 50 1.68 SS 3 50 25 2 + 103.03**GLACIAL TILL:** Compact to very SS 4 25 56 dense, grey silty sand with gravel, cobbles and boulders 3+102.03SS 5 67 50 +3.51 End of Borehole Practical refusal to augering at 3.51m depth. (GWL @ 1.22m - Jan. 11, 2022) 20 40 60 80 100 Shear Strength (kPa) ▲ Undisturbed △ Remoulded

9 Auriga Drive, Ottawa, Ontario K2E 7T9

**SOIL PROFILE AND TEST DATA** 

Geotechnical Investigation

Prop. Residential Development - 6115 Flewellyn Road Ottawa, Ontario

**DATUM** Geodetic FILE NO. **PG5570 REMARKS** HOLE NO. BH36-21 **BORINGS BY** Track-Mount Power Auger DATE January 7, 2022 **SAMPLE** Pen. Resist. Blows/0.3m STRATA PLOT Construction **DEPTH** ELEV. Piezometer **SOIL DESCRIPTION** 50 mm Dia. Cone (m) (m) N VALUE or RQD RECOVERY NUMBER Water Content % **GROUND SURFACE** 80 20 0+102.79**TOPSOIL** 0.30 ΑU 1 Compact, brown SILTY SAND to SANDY SILT 1+101.79SS 2 42 15 1.45 SS 3 60 50 +GLACIAL TILL: Very dense to 2 + 100.79compact, brown silty sand with gravel, cobbles and boulders SS 4 8 15 2.90 End of Borehole Practical refusal to augering at 2.90m depth. (GWL @ 0.62m - Jan. 11, 2022) 20 40 60 80 100 Shear Strength (kPa) ▲ Undisturbed △ Remoulded

**Geotechnical Investigation** 

**SOIL PROFILE AND TEST DATA** 

40

▲ Undisturbed

Shear Strength (kPa)

60

80

△ Remoulded

100

Prop. Residential Development - 6115 Flewellyn Road 9 Auriga Drive, Ottawa, Ontario K2E 7T9 Ottawa, Ontario **DATUM** Geodetic FILE NO. **PG5570 REMARKS** HOLE NO. **BH37-21 BORINGS BY** Track-Mount Power Auger DATE January 7, 2022 **SAMPLE** Pen. Resist. Blows/0.3m STRATA PLOT Construction **DEPTH** ELEV. Piezometer **SOIL DESCRIPTION** 50 mm Dia. Cone (m) (m) RECOVERY N VALUE or RQD NUMBER Water Content % **GROUND SURFACE** 80 20 0+103.54**TOPSOIL** 0.36 1 1+102.54SS 2 42 22 Compact to dense, brown SILTY SAND to SANDY SILT SS 3 58 34 2 + 101.54GLACIAL TILL: Very dense, grey silty SS 4 50 50 +sand with gravel, cobbles and boulders End of Borehole Practical refusal to augering at 2.67m depth. (GWL @ 1.52m - Jan. 11, 2022)

9 Auriga Drive, Ottawa, Ontario K2E 7T9

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**SOIL PROFILE AND TEST DATA** 

Geotechnical Investigation

Prop. Residential Development - 6115 Flewellyn Road Ottawa, Ontario

**DATUM** Geodetic FILE NO. **PG5570 REMARKS** HOLE NO. **BH38-21 BORINGS BY** Track-Mount Power Auger DATE January 7, 2022 **SAMPLE** Pen. Resist. Blows/0.3m Piezometer Construction STRATA PLOT **DEPTH** ELEV. **SOIL DESCRIPTION** 50 mm Dia. Cone (m) (m) N VALUE or RQD RECOVERY NUMBER Water Content % **GROUND SURFACE** 80 20 0+103.62FILL: Crushed stone and gravel 0.15 ΑU 1 1 + 102.62SS 2 32 Dense to compact, brown SILTY SAND to SANDY SILT SS 3 24 - grey by 2.0m depth 2+101.62SS 4 100 50+ End of Borehole Practical refusal to augering at 2.64m depth. (GWL @ 1.94m - Jan. 11, 2022) 20 40 60 80 100 Shear Strength (kPa) ▲ Undisturbed △ Remoulded

**Geotechnical Investigation** 

**SOIL PROFILE AND TEST DATA** 

40

▲ Undisturbed

Shear Strength (kPa)

60

80

△ Remoulded

100

6070 and 6115 Flewellyn Road 154 Colonnade Road South, Ottawa, Ontario K2E 7J5 Ottawa, Ontario **DATUM** Geodetic FILE NO. **PG5570 REMARKS** HOLE NO. TP 1 BORINGS BY CME-55 Low Clearance Drill DATE November 20, 2020 **SAMPLE** Pen. Resist. Blows/0.3m Piezometer Construction STRATA PLOT DEPTH ELEV. **SOIL DESCRIPTION** • 50 mm Dia. Cone (m) (m) N VALUE or RQD RECOVERY NUMBER Water Content % **GROUND SURFACE** 80 20 0+105.94**TOPSOIL** G 1 O GLACIAL TILL: Brown silty sand with 25 G 2 gravel and some clay BEDROCK Weathered interbedded<sub>0.44</sub> 3 G limestone End of Test Pit Practical refusal to excavation at 0.44m depth (TP dry upon completion)

**Geotechnical Investigation** 6070 and 6115 Flewellyn Road

**SOIL PROFILE AND TEST DATA** 

154 Colonnade Road South, Ottawa, Ontario K2E 7J5 Ottawa, Ontario **DATUM** Geodetic FILE NO. PG5570 **REMARKS** HOLE NO. TP 2 BORINGS BY CME-55 Low Clearance Drill DATE November 20, 2020 **SAMPLE** Pen. Resist. Blows/0.3m Piezometer Construction STRATA PLOT DEPTH ELEV. **SOIL DESCRIPTION**  50 mm Dia. Cone (m) (m) N VALUE or RQD RECOVERY NUMBER Water Content % **GROUND SURFACE** 80 20  $0 \pm 105.06$ **TOPSOIL** 1 0.21 Ö G 2 Brown SILTY SAND, trace gravel 0.92 Ó 1 + 104.06GLACIAL TILL: Brown silty sand with gravel, cobbles and boulders G 3 1.64 End of Test Pit TP terminated on inferred bedrock surface at 1.64m depth (TP dry upon completion) 40 60 80 100 Shear Strength (kPa) ▲ Undisturbed △ Remoulded

154 Colonnade Road South, Ottawa, Ontario K2E 7J5

**Geotechnical Investigation** 6070 and 6115 Flewellyn Road

<b>DATUM</b> Geodetic									FILE NO.	PG5570	
REMARKS  BORINGS BY CME-55 Low Clearance [	الند			-	ATE	Novembe	vr 20 202	20	HOLE NO	TP 3	
SOIL DESCRIPTION	PLOT		SAN	/IPLE	AIE	DEPTH	ELEV.	Pen. R	⊔ esist. Blo 0 mm Dia	ows/0.3m	er
GOIL BLOOM HON	STRATA P	TYPE	NUMBER	% RECOVERY	N VALUE or RQD	(m)	(m)		Vater Con		Piezometer Construction
GROUND SURFACE	ST	H	Ŋ	REC	N		102.10	20	40 6		ā∵ŏ
<b>TOPSOIL</b> 0.25		G	1				102.10	0			
Brown <b>SILTY SAND,</b> trace sea shells 0.59		G	2								
								O			
<b>GLACIAL TILL:</b> Brown silty sand with gravel, cobbles and boulders		G	3			1-	-101.10				
	\^^^^ 	<u> </u>									-
TP terminated on inferred bedrock											
surface at 1.61m depth											
(TP dry upon completion)											
								20 Shea ▲ Undist	40 6 ar Strengt urbed △	) 80 1 <b>h (kPa)</b> Remoulded	00

154 Colonnade Road South, Ottawa, Ontario K2E 7J5

**SOIL PROFILE AND TEST DATA** 

Geotechnical Investigation 6070 and 6115 Flewellyn Road Ottawa. Ontario

					Ot	tawa, Or	itario				
<b>DATUM</b> Geodetic									FILE NO	PG5570	
REMARKS									HOLE N	0	
BORINGS BY CME-55 Low Clearance I	Orill			D	ATE	Novembe	r 20, 202	20		TP 4	
SOIL DESCRIPTION	PLOT		SAN	<b>IPLE</b>		DEPTH (m)	ELEV. (m)		esist. Bl 0 mm Di	lows/0.3m a. Cone	Piezometer Construction
	STRATA	TYPE	NUMBER	% RECOVERY	N VALUE or RQD	(,	(,	0 W	/ater Co	ntont 9/	zome
GROUND SURFACE	STE	Į.	NON	RECC	N V			20		60 80	S Pi
TOPSOIL		G	1			0-	-108.49				
Brown <b>SILTY SAND</b> , trace gravel, cobble and organics		G	2					0			
<b>GLACIAL TILL:</b> Brown silty sand, some gravel, cobble, boulder, trace clay		G	3			1 -	-107.49	O			
End of Test Pit 1.43	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	<u> </u>									
Test Pit terminated on bedrock surface at 1.43m depth											
(TP dry upon completion)								20	40	60 80 10	000
								20 Shea ▲ Undist	r Streng	<b>ith (kPa)</b> Remoulded	UU

6070 and 6115 Flewellyn Road

**Geotechnical Investigation** 

154 Colonnade Road South, Ottawa, Ont	ario N	∠E /J	15		Ot	tawa, On	itario	_			
<b>DATUM</b> Geodetic									FILE NO.	PG5570	
REMARKS									HOLE NO	<u> </u>	
BORINGS BY CME-55 Low Clearance I	Orill			D	ATE İ	Novembe	r 20, 202	20		<sup>*</sup> TP 5	
SOIL DESCRIPTION	PLOT		SAN	<b>IPLE</b>		DEPTH (m)	ELEV. (m)		esist. Blo 0 mm Dia	ows/0.3m a. Cone	Piezometer Construction
	STRATA	五	BER	% RECOVERY	N VALUE or RQD	(,	(,				zomo
	STR	TYPE	NUMBER	ECO.	N VZ				ater Cor		Cor
GROUND SURFACE		\/		щ		0-	108.36	20	40 6	80	
TOPSOIL 0.22		G	1					0			
Brown SILTY SAND											
		G	2								
						1-	-107.36				
		<del>]</del> -						0			
GLACIAL TILL: Brown silty sand, some gravel, cobble, and boulder		G	3								ৢ
End of Test Pit	^^^^^	Δ.									
TP terminated on inferred bedrock surface at 1.46m depth											
(Groundwater infiltration at 1.28m - Nov 20, 2020)											
								20			 00
								Shea ▲ Undist	r Streng urbed △	th (kPa) Remoulded	

154 Colonnade Road South, Ottawa, Ontario K2E 7J5

**Geotechnical Investigation** 6070 and 6115 Flewellyn Road

,,					O	tawa, Or	ntario					
<b>DATUM</b> Geodetic									FILE NO.	570		
REMARKS									HOLE NO. TP 6			
BORINGS BY CME-55 Low Clearance	Drill │				ATE	Novembe	er 20, 202	20	1110			
SOIL DESCRIPTION	PLOT		SAN	/PLE		DEPTH (m)	ELEV. (m)		esist. Blows/0.3 0 mm Dia. Cone	Piezometer Construction		
	STRATA	TYPE	NUMBER	RECOVERY	N VALUE or RQD	(,	(,	0 V	later Content %	Szomo		
GROUND SURFACE	STF	NUI NUI NUI NUI NUI NUI NUI OE						20	O Water Content %			
TOPSOIL		G	1			0-	107.91					
0.27		A- G	'					0				
Brown <b>SILTY SAND</b> , trace cobble, boulders and seashells												
boulders and seashells		G	2									
						1-	106.91					
		Ŭ _						0				
1.70		G	3							_		
1.70		1								⊽		
						2-	105.91					
<b>BEDROCK:</b> Weathered interbedded limestone		G	4									
End of Test Pit		<u> </u>										
TP terminated on inferred bedrock surface at 2.89m depth												
(Groundwater infiltration at 1.70m -												
Nov 20, 2020)												
								20	40 60 80			
									<b>or Strength (kPa)</b> urbed △ Remould			

154 Colonnade Boad South Ottawa Ontario K2F 7.I5

**Geotechnical Investigation** 6070 and 6115 Flewellyn Road

134 Colonnade Hoad South, Ottawa, On	tarior	\ZL / (	.5		O	ttawa, Or	ntario				
<b>DATUM</b> Geodetic									FILE NO.	PG5570	
REMARKS									HOLE NO.		
BORINGS BY CME-55 Low Clearance	Drill			E	ATE	Novembe	er 20, 202	20		TP 7	
SOIL DESCRIPTION	PLOT		SAN	MPLE		DEPTH (m)	ELEV. (m)		esist. Blov 0 mm Dia.		Piezometer Construction
	STRATA	된	BER	RECOVERY	N VALUE or RQD	(,	(,				zom( zom( stru
	STR	TYPE	NUMBER	₩ PECOV	N V				later Conte	So Pie	
GROUND SURFACE		17		щ		0-	106.31	20	40 60	80	+
TOPSOIL 0.22		G	1								
Drawn Cli TV CAND trees slov											1
Brown <b>SILTY SAND</b> , trace clay		G	2								
0.81		$\backslash\!\!\!\backslash$									
0.01	- , , -  ^^^^,	+									
	^^^^					1 -	105.31				-
	^^^^										
		G	3								
GLACIAL TILL: Brown silty sand with	\^^^^										1
gravel, cobbles and boulders						2-	104.31				
	\^^^^					_					
		$\mathbb{H}$						0			Ā
	\^^^^										
	\^^^^/										
	\^^^^	$\langle \rangle$									1
		G	4								
	\^^^^	1				3-	103.31				
	\^^^^/						100.01				
	\^^^^										
<u>3.3</u> 7 End of Test Pit	<b>'</b> \^^^^	Ц.									-
TP terminated on inferred bedrock											
surface at 3.37m depth											
(Groundwater infiltration at 2.24m -											
Nov 20, 2020)											
								20	40 60		<b>00</b>
								Snea  ▲ Undist	<b>ir Strength</b> urbed △ F	( <b>KPa)</b> Remoulded	

154 Colonnade Road South, Ottawa, Ontario K2E 7J5

**SOIL PROFILE AND TEST DATA** 

Geotechnical Investigation 6070 and 6115 Flewellyn Road Ottawa, Ontario

**DATUM** Geodetic FILE NO. PG5570 **REMARKS** HOLE NO. TP8 BORINGS BY CME-55 Low Clearance Drill DATE November 20, 2020 **SAMPLE** Pen. Resist. Blows/0.3m Piezometer Construction STRATA PLOT DEPTH ELEV. **SOIL DESCRIPTION** • 50 mm Dia. Cone (m) (m) N VALUE or RQD RECOVERY NUMBER **Water Content % GROUND SURFACE** 80 20  $0 \pm 105.48$ **TOPSOIL** 1 0.21 O G 2 1 + 104.48Brown SILTY SAND, trace clay and organics - increasing in silt content with depth G 3 2 + 103.482.15 End of Test Pit TP terminated on inferred bedrock surface at 2.15m depth (TP dry upon completion) 40 60 80 100 Shear Strength (kPa) ▲ Undisturbed △ Remoulded

154 Colonnade Road South, Ottawa, Ontario K2E 7J5

**SOIL PROFILE AND TEST DATA** 

Geotechnical Investigation 6070 and 6115 Flewellyn Road Ottawa, Ontario

<b>DATUM</b> Geodetic									FILE NO.	PG5570	
REMARKS									HOLE NO.	TP 9	
BORINGS BY CME-55 Low Clearance I	Orill			D	ATE	Novembe	er 20, 202	20		1 - 3	
SOIL DESCRIPTION	PLOT			IPLE ×		DEPTH (m)	ELEV. (m)	Pen. Resist. Blows/0.3m  ■ 50 mm Dia. Cone			
	STRATA	TYPE	NUMBER	% RECOVERY	N VALUE or RQD		, ,	0 <b>W</b>	ater Conte	nt %	Piezometer Construction
GROUND SURFACE	Ø	_	Ż	RE	z o	0-	104.47	20	40 60	80	шО
<b>TOPSOIL</b> 0.22		G	1				104.47	O			
Brown <b>SILTY SAND</b> , trace organics		G	2					Q			
GLACIAL TILL: Brown silty sand trace gravel, cobbles, and boulders		G	3			1 -	-103.47				
<u>1.60</u> End of Test Pit	\^^^^										
TP terminated on inferred bedrock surface at 1.60m depth (TP dry upon completion)											
								20 Shea ▲ Undistr	40 60 or Strength ourbed △ R	80 10 ( <b>kPa</b> ) emoulded	00

6070 and 6115 Flewellyn Road

154 Colonnade Boad South Ottawa Ontario K2F 7.I5

**Geotechnical Investigation** 

134 Colonnade Hoad South, Ottawa, Ont	ai io i	\ZL 10	3		Ot	tawa, Or	ntario				
DATUM Geodetic									FILE NO.	PG5570	
REMARKS									HOLE NO	<u> </u>	
BORINGS BY CME-55 Low Clearance I	Orill			D	ATE	Decembe	r 10, 202	0		TP 10	
SOIL DESCRIPTION	PLOT		SAN	/IPLE	_	DEPTH (m)	ELEV. (m)		esist. Blo 0 mm Dia	ows/0.3m a. Cone	Piezometer Construction
	STRATA	TYPE	NUMBER	% RECOVERY	N VALUE or RQD			0 W	ater Cor	ntent %	ezom
GROUND SURFACE	ST	Ħ	Ŋ	REC	NON		102.60	20		60 80	اق کا
TOPSOIL 0.17		G	1			0-	103.62	0			
Brown <b>SILTY SAND</b> , trace gravel and cobbles		G	2								
GLACIAL TILL: Brown silty sand, with gravel, trace cobble and boulders  0.51  0.751	<u>, I. I. I</u> ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^	G	3					0			⊽
End of Test Pit											
TP terminated on inferred bedrock surface at 0.76m depth											
(Groundwater infiltration at 0.51m - Dec 10, 2020)											
								20	40 6	60 80 10	00
								Shea  ▲ Undist	r Streng urbed △	th (kPa) Remoulded	

**Geotechnical Investigation** 6070 and 6115 Flewellyn Road Ottawa, Ontario

**SOIL PROFILE AND TEST DATA** 

154 Colonnade Road South, Ottawa, Ontario K2E 7J5 **DATUM** Geodetic FILE NO. **PG5570 REMARKS** HOLE NO. **TP 11** BORINGS BY CME-55 Low Clearance Drill DATE December 10, 2020 **SAMPLE** Pen. Resist. Blows/0.3m Piezometer Construction STRATA PLOT DEPTH ELEV. **SOIL DESCRIPTION**  50 mm Dia. Cone (m) (m) N VALUE or RQD RECOVERY NUMBER Water Content % **GROUND SURFACE** 80 20 0+103.01**TOPSOIL** G 1 0.15 Ö G 2 Brown SILTY SAND, trace gravel G 3 0.89 ⊻ 1+102.01GLACIAL TILL: Brown silty sand, with G 1 gravel, cobbles, and boulders 1.49 End of Test Pit TP terminated on inferred bedrock surface at 1.49m depth (Groundwater infiltration at 0.89m -Dec 10, 2020) 40 60 80 100 Shear Strength (kPa) ▲ Undisturbed △ Remoulded

154 Colonnade Road South, Ottawa, Ontario K2E 7J5

**SOIL PROFILE AND TEST DATA** 

Geotechnical Investigation 6070 and 6115 Flewellyn Road Ottawa, Ontario

**DATUM** Geodetic FILE NO. **PG5570 REMARKS** HOLE NO. **TP 12** BORINGS BY CME-55 Low Clearance Drill DATE December 10, 2020 **SAMPLE** Pen. Resist. Blows/0.3m Piezometer Construction STRATA PLOT DEPTH ELEV. **SOIL DESCRIPTION**  50 mm Dia. Cone (m) (m) N VALUE or RQD RECOVERY NUMBER Water Content % **GROUND SURFACE** 80 20 0+103.21TOPSOIL 0.02 G 2 Brown SILTY SAND, trace gravel 0.51 0 G 3 Organic silt with **PEAT** fibers 0 1+102.21G 4 GLACIAL TILL: Brown silty sand with gravel, cobbles and boulders  $\nabla$ 2+101.21 2.97 End of Test Pit TP terminated on inferred bedrock surface at 2.97m depth (Groundwater infiltration at 1.82m -Dec 10, 2020) 40 60 80 100 Shear Strength (kPa) ▲ Undisturbed △ Remoulded

**Geotechnical Investigation** 

SOIL PROFILE AND TEST DATA

6070 and 6115 Flewellyn Road

154 Colonnade Road South, Ottawa, Ontario K2E 7J5 Ottawa, Ontario **DATUM** Geodetic FILE NO. **PG5570 REMARKS** HOLE NO. **TP 13** BORINGS BY CME-55 Low Clearance Drill DATE December 10, 2020 **SAMPLE** Pen. Resist. Blows/0.3m Piezometer Construction STRATA PLOT **DEPTH** ELEV. **SOIL DESCRIPTION** • 50 mm Dia. Cone (m) (m) N VALUE or RQD RECOVERY NUMBER Water Content % **GROUND SURFACE** 80 20 40 0+104.30G 1 **TOPSOIL** Ö Brown SILTY SAND, trace organics G 2  $\nabla$ **①** GLACIAL TILL: Brown silty sand with G 3 gravel, cobbles and boulders End of Test Pit TP terminated on inferred bedrock surface at 0.91m depth (Groundwater infiltration at 0.61m -Dec 10, 2020) 40 60 80 100 Shear Strength (kPa) ▲ Undisturbed △ Remoulded

**Geotechnical Investigation** 6070 and 6115 Flewellyn Road Ottawa, Ontario

**SOIL PROFILE AND TEST DATA** 

154 Colonnade Road South, Ottawa, Ontario K2E 7J5 **DATUM** Geodetic FILE NO. **PG5570 REMARKS** HOLE NO. **TP 14** BORINGS BY CME-55 Low Clearance Drill DATE December 10, 2020 **SAMPLE** Pen. Resist. Blows/0.3m Piezometer Construction STRATA PLOT DEPTH ELEV. **SOIL DESCRIPTION** • 50 mm Dia. Cone (m) (m) N VALUE or RQD RECOVERY NUMBER Water Content % **GROUND SURFACE** 80 20 0+105.601 **TOPSOIL** 0.30 0 2 **Brown SILTY SAND** 0.56 O GLACIAL TILL: Brown silty sand with 3 gravel, cobbles, and boulders. 0.97 End of Test Pit Practical refusal to excavation at 0.94m depth (TP dry upon completion) 40 60 80 100 Shear Strength (kPa) ▲ Undisturbed △ Remoulded

154 Colonnade Road South, Ottawa, Ontario K2E 7J5

**Geotechnical Investigation** 

SOIL PROFILE AND TEST DATA

6070 and 6115 Flewellyn Road Ottawa, Ontario

**DATUM** Geodetic FILE NO. **PG5570 REMARKS** HOLE NO. **TP 15** BORINGS BY CME-55 Low Clearance Drill DATE December 10, 2020 **SAMPLE** Pen. Resist. Blows/0.3m Piezometer Construction STRATA PLOT DEPTH ELEV. **SOIL DESCRIPTION** • 50 mm Dia. Cone (m) (m) N VALUE or RQD RECOVERY NUMBER Water Content % **GROUND SURFACE** 80 20 40 0+106.80**TOPSOIL** G 1 0.18 Q. G 2 0 1 + 105.80G 3 Brown SILTY SAND G 4 2+104.80⊻ Ó G 5 GLACIAL TILL: Grey silty sand with 2.74 gravel, cobbles and boulders 6 End of Test Pit TP terminated on inferred bedrock surface at 2.74m depth (Groundwater infiltration at 2.28m -Dec 10, 2020) 40 60 80 100 Shear Strength (kPa) ▲ Undisturbed △ Remoulded

154 Colonnade Road South, Ottawa, Ontario K2E 7J5

**Geotechnical Investigation** 6070 and 6115 Flewellyn Road

					Ot	tawa, Or	itario				
<b>DATUM</b> Geodetic									FILE NO	PG5570	
REMARKS									HOLE N	0	
BORINGS BY CME-55 Low Clearance	Drill	I		D	ATE	Decembe	r 10, 202	20		TP 16	
SOIL DESCRIPTION	PLOT		SAN	/IPLE		DEPTH (m)	ELEV. (m)		Resist. B 50 mm Di	lows/0.3m a. Cone	Piezometer Construction
	STRATA	TYPE	NUMBER	% RECOVERY	ALUE RQD		( )		Notor Co	ntont 9/	zom
GROUND SURFACE	STF	Ţ	NON	RECC	N VALUE or RQD			20	Vater Co 40	60 80	[ 음 명
GROOM COM ACE		1/				0-	-104.62				
TOPSOIL		G	1								
0.35		Δ.							0		
		$\mathbf{M}$									1
		N _									
		G	2								
		$\mathbb{N}$									1
		Ц				1-	-103.62				
Brown <b>SILTY SAND</b> , trace gravel											
-											
						2-	-102.62			+	
2.34									0		<sub>▼</sub>
		$\prod_{i=1}^{n}$									-
GLACIAL TILL: Grey silty sand with		V									
gravel, cobbles and boulders.	\^^^^	G	3								
		$\mathbb{N}$									
		Ц					101.00				
	\^^^^					3-	-101.62				]
End of Test Pit											
TP terminated on inferred bedrock surface at 3.09m depth											
(Groundwater infiltration at 2.33m -											
Dec 10, 2020)											
								20	40	60 00 1	
								20 She	40 ar Streng		00
										∆ Remoulded	

**Geotechnical Investigation** 6070 and 6115 Flewellyn Road

SOIL PROFILE AND TEST DATA

154 Colonnade Road South, Ottawa, Ontario K2E 7J5 Ottawa, Ontario **DATUM** Geodetic FILE NO. **PG5570 REMARKS** HOLE NO. **TP 17** BORINGS BY CME-55 Low Clearance Drill DATE December 10, 2020 **SAMPLE** Pen. Resist. Blows/0.3m Piezometer Construction STRATA PLOT **DEPTH** ELEV. **SOIL DESCRIPTION**  50 mm Dia. Cone (m) (m) N VALUE or RQD RECOVERY NUMBER Water Content % **GROUND SURFACE** 80 20 0+103.90G **TOPSOIL** 1 0.33 2 G Brown SILTY SAND, trace gravel 1+102.901.37 ⊻ Ò GLACIAL TILL: Brown silty sand, with gravel cobbles and boulders G 3 1.78 End of Test Pit TP terminated on inferred bedrock surface at 1.78m depth (Groundwater infiltration at 1.37m -Dec 10, 2020) 40 60 80 100 Shear Strength (kPa) ▲ Undisturbed △ Remoulded

Geotechnical Investigation 6070 and 6115 Flewellyn Road

154 Colonnade Road South, Ottawa, On	Ot	tawa, Or	ntario	,							
<b>DATUM</b> Geodetic									FILE NO.	PG5570	
REMARKS									HOLE NO.		
BORINGS BY CME-55 Low Clearance	Drill			D	ATE	Decembe	er 10, 2020	0		TP 18	
SOIL DESCRIPTION	PLOT		SAN	APLE		DEPTH (m)	ELEV. (m)		esist. Blo 0 mm Dia.		eter
	STRATA	TYPE	NUMBER	% RECOVERY	N VALUE or RQD	(,	(,	-	/ater Cont	tent %	Piezometer Construction
GROUND SURFACE	STI	Ħ	NUN	REC	NON	0-	103.42	20	40 60		S P
TOPSOIL 		G	1			0-	103.42		C		
Brown <b>SILTY SAND</b> , some gravel		G	2						Ŭ.		
		G	3			1 -	-102.42 -		0		
		Ц.									-
TP terminated on inferred bedrock surface at 1.32m depth											
(TP dry upon completion)											
									40 60 or Strengtl	h (kPa)	00

#### **SYMBOLS AND TERMS**

#### SOIL DESCRIPTION

Behavioural properties, such as structure and strength, take precedence over particle gradation in describing soils. Terminology describing soil structure are as follows:

Desiccated	-	having visible signs of weathering by oxidation of clay minerals, shrinkage cracks, etc.
Fissured	-	having cracks, and hence a blocky structure.
Varved	-	composed of regular alternating layers of silt and clay.
Stratified	-	composed of alternating layers of different soil types, e.g. silt and sand or silt and clay.
Well-Graded	-	Having wide range in grain sizes and substantial amounts of all intermediate particle sizes (see Grain Size Distribution).
Uniformly-Graded	-	Predominantly of one grain size (see Grain Size Distribution).

The standard terminology to describe the relative strength of cohesionless soils is the compactness condition, usually inferred from the results of the Standard Penetration Test (SPT) 'N' value. The SPT N value is the number of blows of a 63.5 kg hammer, falling 760 mm, required to drive a 51 mm O.D. split spoon sampler 300 mm into the soil after an initial penetration of 150 mm. An SPT N value of "P" denotes that the split-spoon sampler was pushed 300 mm into the soil without the use of a falling hammer.

Compactness Condition	'N' Value	Relative Density %
Very Loose	<4	<15
Loose	4-10	15-35
Compact	10-30	35-65
Dense	30-50	65-85
Very Dense	>50	>85

The standard terminology to describe the strength of cohesive soils is the consistency, which is based on the undisturbed undrained shear strength as measured by the in situ or laboratory shear vane tests, unconfined compression tests, or occasionally by the Standard Penetration Test (SPT). Note that the typical correlations of undrained shear strength to SPT N value (tabulated below) tend to underestimate the consistency for sensitive silty clays, so Paterson reviews the applicable split spoon samples in the laboratory to provide a more representative consistency value based on tactile examination.

Consistency	Undrained Shear Strength (kPa)	'N' Value
Very Soft Soft Firm Stiff Very Stiff Hard	<12 12-25 25-50 50-100 100-200 >200	<2 2-4 4-8 8-15 15-30 >30

#### **SYMBOLS AND TERMS (continued)**

#### **SOIL DESCRIPTION (continued)**

Cohesive soils can also be classified according to their "sensitivity". The sensitivity,  $S_t$ , is the ratio between the undisturbed undrained shear strength and the remoulded undrained shear strength of the soil. The classes of sensitivity may be defined as follows:

#### **ROCK DESCRIPTION**

The structural description of the bedrock mass is based on the Rock Quality Designation (RQD).

The RQD classification is based on a modified core recovery percentage in which all pieces of sound core over 100 mm long are counted as recovery. The smaller pieces are considered to be a result of closely-spaced discontinuities (resulting from shearing, jointing, faulting, or weathering) in the rock mass and are not counted. RQD is ideally determined from NQ or larger size core. However, it can be used on smaller core sizes, such as BQ, if the bulk of the fractures caused by drilling stresses (called "mechanical breaks") are easily distinguishable from the normal in situ fractures.

RQD %	ROCK QUALITY
90-100	Excellent, intact, very sound
75-90	Good, massive, moderately jointed or sound
50-75	Fair, blocky and seamy, fractured
25-50	Poor, shattered and very seamy or blocky, severely fractured
0-25	Very poor, crushed, very severely fractured

#### **SAMPLE TYPES**

SS	-	Split spoon sample (obtained in conjunction with the performing of the Standard Penetration Test (SPT))
TW	-	Thin wall tube or Shelby tube, generally recovered using a piston sampler
G	-	"Grab" sample from test pit or surface materials
AU	-	Auger sample or bulk sample
WS	-	Wash sample
RC	-	Rock core sample (Core bit size BQ, NQ, HQ, etc.). Rock core samples are obtained with the use of standard diamond drilling bits.

#### **SYMBOLS AND TERMS (continued)**

#### PLASTICITY LIMITS AND GRAIN SIZE DISTRIBUTION

WC% - Natural water content or water content of sample, %

LL - Liquid Limit, % (water content above which soil behaves as a liquid)

PL - Plastic Limit, % (water content above which soil behaves plastically)

PI - Plasticity Index, % (difference between LL and PL)

Dxx - Grain size at which xx% of the soil, by weight, is of finer grain sizes

These grain size descriptions are not used below 0.075 mm grain size

D10 - Grain size at which 10% of the soil is finer (effective grain size)

D60 - Grain size at which 60% of the soil is finer

Cc - Concavity coefficient =  $(D30)^2 / (D10 \times D60)$ 

Cu - Uniformity coefficient = D60 / D10

Cc and Cu are used to assess the grading of sands and gravels:

Well-graded gravels have: 1 < Cc < 3 and Cu > 4 Well-graded sands have: 1 < Cc < 3 and Cu > 6

Sands and gravels not meeting the above requirements are poorly-graded or uniformly-graded.

Cc and Cu are not applicable for the description of soils with more than 10% silt and clay

(more than 10% finer than 0.075 mm or the #200 sieve)

#### **CONSOLIDATION TEST**

p'o - Present effective overburden pressure at sample depth

p'c - Preconsolidation pressure of (maximum past pressure on) sample

Ccr - Recompression index (in effect at pressures below p'c)
 Cc - Compression index (in effect at pressures above p'c)

OC Ratio Overconsolidaton ratio = p'c / p'o

Void Ratio Initial sample void ratio = volume of voids / volume of solids

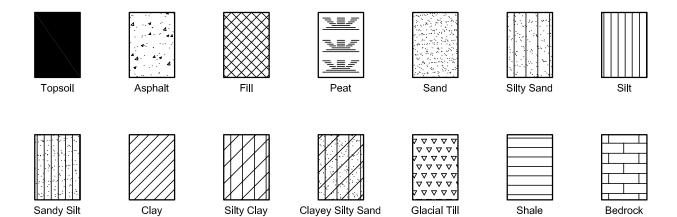
Wo - Initial water content (at start of consolidation test)

#### **PERMEABILITY TEST**

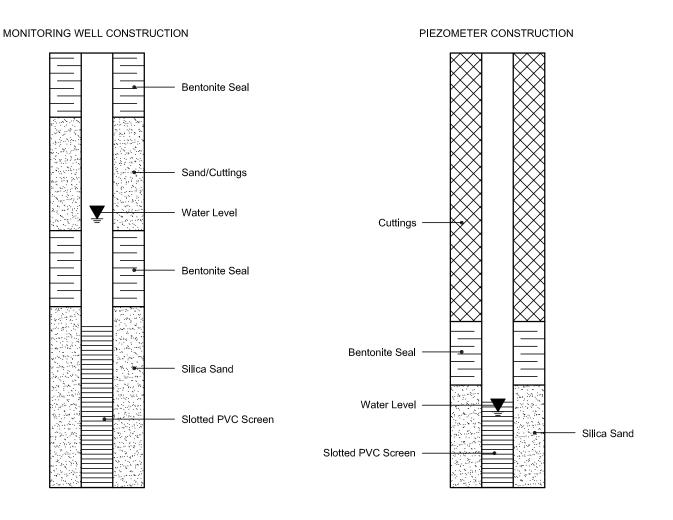
Coefficient of permeability or hydraulic conductivity is a measure of the ability of water to flow through the sample. The value of k is measured at a specified unit weight for (remoulded) cohesionless soil samples, because its value will vary with the unit weight or density of the sample during the test.

#### SYMBOLS AND TERMS (continued)

#### STRATA PLOT



#### MONITORING WELL AND PIEZOMETER CONSTRUCTION



patersol consulting en	ngroup ngineers									:	SIEVE ANAL ASTM C1:		
CLIENT:	Caiva	n	DESCRIPTION:			Fine Agg	regate	FILE N	0:			PG5570	
CONTRACT NO.:	-		SPECIFICATION			_	L TILL	LAB NO				31575	
	Geotechnical Inv	restigation -	INTENDED USE						RECEIVE	D:		10-Jan-22	
PROJECT:	6115 Flewell		PIT OR QUARR		-			DATE TESTED:			11-Jan-22		
DATE SAMPLED:	15/16/17-D	EC-21	SOURCE LOCA			BH4-21; S	S2 + SS3		DATE REPORTED:			14-Jan-22	
SAMPLED BY:	A. Emme	erton	SAMPLE LOCA			2'6" to		TESTED BY:			D.K.		
0.0	01		0.1			Sieve S	ize (mm)		10			100	
90.0							•	•	•	***			
80.0													
70.0													
60.0 - % 50.0 -													
40.0													
30.0													
20.0													
10.0													
0.0			<u> </u>			1111							
	Silt and	Clay	F	Sar	nd Medium	Coarse	Fine	Gr	avel	Coarse		Cobble	
dentification				sification		554.55	MC(%)		LL	PL	PI	Сс	Cu
	D400	Dec				0		(C()		0"	(0/)	0.40	2.5
	D100 26.5	D60 0.025	D30 0.01	0.01						: (%)	69.3	ıy (%)	
	Comment	s:											
REVIEWED BY:			Curtis Beadow  Low Row				Joe Fosyth, P. Eng.						

-	onsulting engineers  SIEVE ANALYSIS ASTM C136											
CLIENT:	Cai	van	DESCRIPTION:	Fine Ag	gregate	FILE NO.:	PG5570					
CONTRACT NO.:		-	SPECIFICATION:	Silty	Clay	LAB NO.:	31575					
PROJECT:			INTENDED USE:		-	DATE REC'D:	10-Jan-22					
	Flewelly	n Road	PIT OR QUARRY:		-	DATE TESTED:	11-Jan-22					
DATE SAMPLED:	15/16/17	-DEC-21	SOURCE LOCATION	ON: BH4-2	DATE REP'D:	14-Jan-22						
SAMPLED BY:	A. Emi	merton	SAMPLE LOCATION	DN:	2'6" to 7'0"	TESTED BY:	D.K.					
WEIGHT BEFORE	WASH					275.9						
WEIGHT AFTER W	/ASH		ı			93.5						
SIEVE SIZE (mm)	(mm) RETAINED RETAINED			LOWER SPEC	UPPER SPEC	I REMARK						
150												
106												
75												
63												
53												
37.5												
26.5	0.0	0.0	100.0									
19	17.7	6.4	93.6									
16	17.7	6.4	93.6									
13.2	17.7	6.4	93.6									
9.5	17.7	6.4	93.6									
6.7	17.7	6.4	93.6									
4.75	17.9	6.5	93.5									
2.36	21.2	7.7	92.3									
1.18	26.5	9.6	90.4									
0.6	36.0	13.0	87.0									
0.3	51.9	18.8	81.2									
0.15	68.4	24.8	75.2									
0.075	84.7	30.7	69.3									
PAN	93.3											
SIEVE CHECK FIN	E	0.21	0	.3% max.		REFERENCE						
OTHER TESTS					RESULT	LAB NO.	RESULT					
		Curtis Beadov	V		Joe Fo	rsyth, P. Eng.						
REVIEWED BY:	Lm			Joet	7-2							

paterson consulting en	ngroup ngineers				,	SIEVE ANALYSIS ASTM C136	•	
CLIENT:	Caivan	DESCRIPTION:	Fine Aggrega	te FIL	LE NO:		PG5570	
CONTRACT NO.:	-	SPECIFICATION:	GLACIAL TI		AB NO:		31576	
PROJECT:	Geotechnical Investigation -	INTENDED USE:	-	DA	ATE RECEIVED:		10-Jan-22	
1100201.	6115 Flewellyn Road	PIT OR QUARRY:	-	DA	ATE TESTED:		11-Jan-22	
DATE SAMPLED:	15/16/17-DEC-21	SOURCE LOCATION:	BH11-21; SS	3 DA	DATE REPORTED:		14-Jan-22	
SAMPLED BY:	A. Emmerton	SAMPLE LOCATION:	5'0" to 7'0" TESTED BY:			D.K.		
0.0	01	0.1	Sieve Size (n 1	nm)	10		100	
90.0								
70.0								
60.0								
<b>%</b> 50.0 -		*						
30.0								
20.0								
0.0								
	Silt and Clay		and Course	F1	Gravel		Cobble	
lentification		Fine Soil Classification	Medium Coarse	Fine MC(%)	Coarse  LL PL	PI	Cc	Cu
	D100 D60	D30 D10	Gravel (%)	Sand (%	%) Silt	: (%)	0.87 Clay	24.2
	26.5 0.29  Comments:	0.055 0.012	14.4	50.1		35		
REVIEWED BY:		Curtis Beado	ow	Joe Fosyth, P. Eng.				

patersor consulting en			SIEVE ANALYSIS ASTM C136					
CLIENT:	Cai	ivan	DESCRIPTION:	Fine Ag	gregate	FILE NO.:	PG5570	
CONTRACT NO.:		-	SPECIFICATION:	Silty	Clay	LAB NO.:	31576	
PROJECT:			INTENDED USE:		-	DATE REC'D:	10-Jan-22	
THOULGT.	Flewelly	yn Road	PIT OR QUARRY:		-	DATE TESTED:	11-Jan-22	
DATE SAMPLED:	15/16/17	'-DEC-21	SOURCE LOCATION	ON: E	DATE REP'D:	14-Jan-22		
SAMPLED BY:	A. Emi	merton	SAMPLE LOCATION	ON:	5'0" to 7'0"	TESTED BY:	D.K.	
WEIGHT BEFORE	WASH					503.6		
WEIGHT AFTER W	VASH					339.5		
SIEVE SIZE (mm)	WEIGHT RETAINED	PERCENT RETAINED	PERCENT PASSING	LOWER SPEC	UPPER SPEC	REM/	ARK	
150								
106								
75								
63				<u> </u>				
53				<u> </u>				
37.5				<u> </u>				
26.5	0.0	0.0	100.0	<u> </u>				
19	29.1	5.8	94.2	<u> </u>				
16	39.2	7.8	92.2	<u> </u>	<u> </u>			
13.2	44.3	8.8	91.2	<u> </u>	<u> </u>			
9.5	51.6	10.2	89.8	<u> </u>	<u> </u>			
6.7	63.0	12.5	87.5	<u> </u>				
4.75	72.5	14.4	85.6	<u> </u>				
2.36	99.3	19.7	80.3					
1.18	125.1	24.8	75.2	<u> </u>				
0.6	153.1	30.4	69.6	<u> </u>				
0.3	199.7	39.7	60.3					
0.15	263.4	52.3	47.7					
0.075	325.0	64.5	35.5					
PAN	339.3							
SIEVE CHECK FIN	IE	0.06	0	).3% max.	1	REFERENCE		
OTHER TESTS					RESULT	LAB NO.	RESULT	
		Overtia Dandar			loo Fo	words D. From		
		Curtis Beadov	N	Joe Forsyth, P. Eng.				
REVIEWED BY:	Low	Ru			get	7-2		

patersol consulting en	ngineers									SIEVE ANALYS ASTM C136		
LIENT:	Caiva	n	DESCRIPTION:			Fine Aggre	gate	FILE NO:			PG5570	
ONTRACT NO.:	-		SPECIFICATION	N:		GLACIAL		LAB NO:			31577	
ROJECT:	Geotechnical Inv	estigation -	INTENDED USE	:				DATE RECEIV	ED:		10-Jan-22	
NOJECT.	6115 Flewell	yn Road	PIT OR QUARR	Y:		-		DATE TESTED			11-Jan-22	
ATE SAMPLED:	15/16/17-D	EC-21	SOURCE LOCA	TION:	BH14-21; SS2 + SS3			DATE REPORTED:			14-Jan-22	
AMPLED BY:	A. Emme	erton	SAMPLE LOCA			2'6" to 7'0		TESTED BY:			D.K.	
0.0	01		0.1		Sieve Size (mm) 1 10					100	_	
90.0									A 8 1			
80.0												
70.0							•					
60.0												
<b>%</b> 50.0												
40.0												
30.0												
20.0												
0.0												
	Cilt and	Class		San	nd			Gravel			Cabbla	
L	Silt and (	Cidy	F	ine	Medium	Coarse	Fine		Coarse		Cobble	
entification				sification D10		160	MC(%)	LL	PL	PI	0.70	76.7
	D100         D60         D30         D           26.5         1.15         0.11         0.				Gr	avel (%) 25.9		nd (%) 48.9	Silt	: (%)	25.2 Cla	y (%)
	Comment				•	-			•			
REVIEWED BY:		6	Curtis Beadow				Joe Fosyth, P. Eng.					

	consulting engineers  SIEVE ANALYSIS ASTM C136											
CLIENT:	Cai	ivan	DESCRIPTION:	Fine Ag	gregate	FILE NO.:	PG5570					
CONTRACT NO.:		-	SPECIFICATION:	Silty	Clay	LAB NO.:	31577					
PROJECT:			INTENDED USE:			DATE REC'D:	10-Jan-22					
THOULGT.	Flewelly	yn Road	PIT OR QUARRY:		-	DATE TESTED:	11-Jan-22					
DATE SAMPLED:	15/16/17	'-DEC-21	SOURCE LOCATI	ON: BH14-2	1; SS2 + SS3	DATE REP'D:	14-Jan-22					
SAMPLED BY:	A. Emr	merton	SAMPLE LOCATION	ON:	2'6" to 7'0"	TESTED BY:	D.K.					
WEIGHT BEFORE	WASH					553.4						
WEIGHT AFTER W	VASH					428.6						
SIEVE SIZE (mm)	WEIGHT RETAINED	PERCENT RETAINED	PERCENT PASSING	LOWER SPEC	UPPER SPEC REMAR		ARK					
150												
106												
75												
63												
53												
37.5												
26.5	0.0	0.0	100.0									
19	19.1	3.5	96.5									
16	36.0	6.5	93.5									
13.2	68.2	12.3	87.7									
9.5	91.4	16.5	83.5									
6.7	118.6	21.4	78.6									
4.75	143.3	25.9	74.1		<u> </u>							
2.36	181.6	32.8	67.2		<u> </u>							
1.18	215.4	38.9	61.1									
0.6	250.3	45.2	54.8		<u> </u>							
0.3	301.8	54.5	45.5		<u> </u>							
0.15	362.7	65.5	34.5									
0.075	414.2	74.8	25.2									
PAN	428.2											
SIEVE CHECK FIN	IE	0.09	c	).3% max.	1	REFERENCE						
OTHER TESTS					RESULT	LAB NO.	RESULT					
		Overtia Dandar			loo Fo	words D. From						
		Curtis Beadov	N	Joe Forsyth, P. Eng.								
REVIEWED BY:	Low	Pu			get	7-2						

patersol consulting er	ngroup ngineers									:	SIEVE ANAL ASTM C1		
CLIENT:	Caiv	ran	DESCRIPTION:			Fine Ag	gregate	FILE N	NO:			PG5570	
CONTRACT NO.:	-		SPECIFICATION				ND/SANDY SILT					31578	
DDO IECT.	Geotechnical Ir	nvestigation -	INTENDED USE	Ē:		-			DATE RECEIVED:			10-Jan-22	
PROJECT:	6115 Flewe		PIT OR QUARR			-	-		DATE TESTED:			11-Jan-22	
DATE SAMPLED:	15/16/17-	DEC-21	SOURCE LOCA	TION:		BH19-21; S	SS2 + SS3	SS3 DATE REPORTED:				14-Jan-22	
SAMPLED BY:	A. Emm	nerton	SAMPLE LOCA			2'6" to			TESTED BY:			D.K.	
0.0	01		0.1			Sieve	Size (mm)		10			100	
90.0						<b>—</b>							
80.0													
70.0													
60.0													
<b>%</b> 50.0													
40.0													
30.0													
20.0													
0.0													
0.0 1	Silt and	d Clay		San				G	iravel			Cobble	
					Medium	Coarse	Fine			Coarse			
dentification			Soil Clas	ssification			MC(%)		LL	PL	PI	0.83	<b>Cu</b> 1.2
				D10 0.01				and (%) 13.8				Clay (%)	
	Commer	nts:											
		Curtis Beadow				Joe Fosyth, P. Eng.							
REVIEWE	D BY:		6	n Ru					De	A 2			

patersongroup SIEVE ANALYSIS ASTM C136											
CLIENT:	Cai	van	DESCRIPTION:	Fine Ag	gregate	FILE NO.:	PG5570				
CONTRACT NO.:		-	SPECIFICATION:	Silty	Clay	LAB NO.:	31578				
PROJECT:			INTENDED USE:		DATE REC'D:	10-Jan-22					
	Flewelly	n Road	PIT OR QUARRY:		-	DATE TESTED:	11-Jan-22				
DATE SAMPLED:	15/16/17	-DEC-21	SOURCE LOCATION	ON: BH19-2	1; SS2 + SS3	DATE REP'D:	14-Jan-22				
SAMPLED BY:	A. Em	merton	SAMPLE LOCATION	ON:	2'6" to 7'0"	TESTED BY:	D.K.				
WEIGHT BEFORE	WASH					397.5					
WEIGHT AFTER W	/ASH		ı			69.5					
SIEVE SIZE (mm)	WEIGHT RETAINED	PERCENT RETAINED	PERCENT PASSING	LOWER SPEC	UPPER SPEC	I REMARK					
150											
106											
75											
63											
53											
37.5											
26.5											
19											
16											
13.2											
9.5	0.0	0.0	100.0								
6.7	0.5	0.1	99.9								
4.75	0.5	0.1	99.9								
2.36	1.1	0.3	99.7								
1.18	2.5	0.6	99.4								
0.6	8.5	2.1	97.9								
0.3	20.8	5.2	94.8								
0.15	33.5	8.4	91.6								
0.075	55.3	13.9	86.1								
PAN	69.3										
SIEVE CHECK FIN	E	0.29	O	.3% max.		REFERENCE					
OTHER TESTS					RESULT	LAB NO.	RESULT				
		Curtis Beadov	V		Joe Fo	rsyth, P. Eng.					
REVIEWED BY:	Ln			Joet	7-2						

patersol consulting er	ngroup ngineers							SIEVE ANALYS ASTM C136	ilS	
LIENT:	Caivan	DESCRIPTION:		Fine Ago	regate	FILE NO:			PG5570	
ONTRACT NO.:	-	SPECIFICATION:		SILTY SAND/S	ANDY SILT	LAB NO:			31579	
ROJECT:	Geotechnical Investigation -	INTENDED USE:		- DATE			ED:		10-Jan-22	
	6115 Flewellyn Road	PIT OR QUARRY:					:		11-Jan-22	
ATE SAMPLED:	15/16/17-DEC-21	SOURCE LOCATION	N:	BH24-21; SS2 + SS3 DATE REPORTED:			ΓED:	14-Jan-22		
AMPLED BY:	A. Emmerton	SAMPLE LOCATION	۱:	2'6" to	7'0"	TESTED BY:			D.K.	
0.0	01	0.1		Sieve S	ize (mm)	10			100	
90.0										
60.0 · % 50.0 ·										
40.0										
30.0										
20.0										
10.0										
0.0			Sand			Gravel	'	<u> </u>		_
	Silt and Clay	Fine	Med	lium Coarse	Fine		Coarse		Cobble	
entification		Soil Classific	ation		MC(%)	LL	PL	PI	<b>Cc</b> 1.10	<b>Cu</b> 3.5
	D100 D60	D30	D10	Gravel (%)		d (%)	Silt	1 (%)	Clay	y (%)
	19 0.098  Comments:	0.055	0.028	4.9	4	6.3			48.8	
REVIEWED BY:		Lm	rtis Beadow	is Beadow  Au			Joe Fosyth, P. Eng.			

patersongroup SIEVE ANALYSIS ASTM C136											
CLIENT:	Cai	van	DESCRIPTION:	Fine Ag	gregate	FILE NO.:	PG5570				
CONTRACT NO.:		-	SPECIFICATION:	Silty	Clay	LAB NO.:	31579				
PROJECT:			INTENDED USE:		-	DATE REC'D:	10-Jan-22				
	Flewelly	n Road	PIT OR QUARRY:		-	DATE TESTED:	11-Jan-22				
DATE SAMPLED:	15/16/17	-DEC-21	SOURCE LOCATION	ON: BH24-2	1; SS2 + SS3	DATE REP'D:	14-Jan-22				
SAMPLED BY:	A. Em	merton	SAMPLE LOCATION	DN:	2'6" to 7'0"	TESTED BY:	D.K.				
WEIGHT BEFORE	WASH					421.6					
WEIGHT AFTER W	VASH					278.2					
SIEVE SIZE (mm)	(mm) RETAINED RETAINED			LOWER SPEC	UPPER SPEC	REM	ARK				
150											
106											
75											
63											
53											
37.5											
26.5											
19	0.0	0.0	100.0								
16	8.1	1.9	98.1								
13.2											
9.5	12.2	2.9	97.1								
6.7	16.8	4.0	96.0								
4.75	20.8	4.9	95.1								
2.36	28.7	6.8	93.2								
1.18	36.7	8.7	91.3								
0.6	47.6	11.3	88.7								
0.3	67.5	16.0	84.0								
0.15	102.5	24.3	75.7								
0.075	216.0	51.2	48.8								
PAN	278.2										
SIEVE CHECK FIN	IE	0.00	0	.3% max.		REFERENCE					
OTHER TESTS					RESULT	LAB NO.	RESULT				
		Ot. B									
		Curtis Beadov	V		Joe Fo	rsyth, P. Eng.					
REVIEWED BY:	Ln			Joet	7-2						

paterson consulting en	ngroup gineers										SIEVE ANAI ASTM C1		
CLIENT:	Cai	van	DESCRIPTION:			Fine Aggregate			FILE NO:			PG5570	
CONTRACT NO.:	- SP		SPECIFICATION:		GLACIAL TILL				LAB NO:		31580		
		Investigation -	INTENDED USE	TENDED USE:		-			DATE RECEIVED:		10-Jan-22		
TIOULOT.	6115 Flewellyn Road		PIT OR QUARR	PIT OR QUARRY:		-			DATE TESTED:			11-Jan-22	
DATE SAMPLED:	15/16/17-DEC-21		SOURCE LOCA	SOURCE LOCATION:		BH35-22; SS4 + SS			DATE REPORTED:		14-Jan-22		
SAMPLED BY:	A. Emmerton SAMPLE LOCATION			TION:	7'6" to 12'0"				TESTED BY:			D.K.	
0.0	0.1	0.1			Sieve Size (mm) 1			10		100			
90.0										1			
80.0													
70.0													
60.0 - % 50.0 -										*			
<b>8</b> 50.0 -													
30.0							•						
20.0													
10.0													
0.0				San	d				Gravel				
Silt and Clay			Fi		Medium			Fine		Coarse		Cobble	
entification			ification				MC(%)	LL	PL	PI	<b>Cc</b> 17.82	Cu	
	D100 D60		D30			Gravel (%)		San	d (%)	Si	Silt (%)		1100.0 ay (%)
	37.5 Comme	16.5 ents:	2.1	0.015		61.0		2.	5.5			13.5	
REVIEWED BY:		Curtis Beadow						Joe Fosyth, P. Eng.					

patersor consulting en						SIEVE AN ASTM	
CLIENT:	Cai	ivan	DESCRIPTION:	Fine Ag	gregate	FILE NO.:	PG5570
CONTRACT NO.:		-	SPECIFICATION:	Silty	Clay	LAB NO.:	31580
PROJECT:			INTENDED USE:			DATE REC'D:	10-Jan-22
11100201.	Flewelly	yn Road	PIT OR QUARRY:		-	DATE TESTED:	11-Jan-22
DATE SAMPLED:	15/16/17	'-DEC-21	SOURCE LOCATION	ON: BH35-2	2; SS4 + SS5	DATE REP'D:	14-Jan-22
SAMPLED BY:	A. Em	merton	SAMPLE LOCATION	ON:	7'6" to 12'0"	TESTED BY:	D.K.
WEIGHT BEFORE	WASH					470.5	
WEIGHT AFTER W	VASH		T	1		411.0	
SIEVE SIZE (mm)	WEIGHT RETAINED	PERCENT RETAINED	PERCENT PASSING	LOWER SPEC	UPPER SPEC	REMA	ARK
150							
106							
75				<u> </u>			
63				<u> </u>			
53				<u> </u>			
37.5	0.0	0.0	100.0	<u> </u>			
26.5	42.6	9.1	90.9				
19	131.9	28.0	72.0	<u> </u>			
16	175.4	37.3	62.7	<u> </u>			
13.2	208.2	44.3	55.7	<u> </u>			
9.5	243.2	51.7	48.3	<u> </u>			
6.7	264.7	56.3	43.7				
4.75	286.9	61.0	39.0				
2.36	323.5	68.8	31.2				
1.18	349.0	74.2	25.8				
0.6	365.3	77.6	22.4				
0.3	380.1	80.8	19.2				
0.15	393.9	83.7	16.3				
0.075	406.9	86.5	13.5	<u> </u>			
PAN	410.9		<u> </u>	<u></u>			
SIEVE CHECK FIN	<u>IE</u>	0.02	0	).3% max.	- 70: 11 7	REFERENCE	
OTHER TESTS					RESULT	LAB NO.	RESULT
		Curtis Beadov	V		Joe Fo	orsyth, P. Eng.	
REVIEWED BY:	Low	Ru			Jet	7-2	

patersol consulting er	ngroup									SIEVE ANALYS ASTM C136		
CLIENT:	Caiva	an	DESCRIPTION:			Fine Agg	regate	FILE NO:			PG5570	
CONTRACT NO.:	-		SPECIFICATION	l:		_	ND/SANDY SILT	LAB NO:			31581	
	Geotechnical In	vestigation -	INTENDED USE			-	•	DATE REC	DEIVED:		10-Jan-22	
PROJECT:	6115 Flewel		PIT OR QUARRY			-		DATE TES			11-Jan-22	
DATE SAMPLED:	15/16/17-[	DEC-21	SOURCE LOCA			BH37-22	; SS3	DATE REF			14-Jan-22	
SAMPLED BY:	A. Emm	erton	SAMPLE LOCAT			5'7" to		TESTED E			D.K.	
0.0	01		0.1			Sieve Si 1	ze (mm)		10		100	
90.0												
80.0												
70.0												
60.0 % 50.0												
40.0												
30.0												
20.0												
0.0												
0.0 1	Silt and	Clav		San	d	'		Grave	el		Cobble	
	Site dila	City			Medium	Coarse	Fine		Coarse			
dentification			Soil Class	sification			MC(%)	LL	PL	PI	<b>Cc</b> 0.65	<b>Cu</b> 2.4
	D100 1.18	D60 0.13	D30 0.068	D10 0.055		Gravel (%) 0.0	Sar 6	nd (%) 64.2	Si	lt (%)	35.8 Clay	
	Commen	ts:										
REVIEWE	Curtis Beadow VIEWED BY:							8	Joe Fos	yth, P. Eng.		

patersor consulting en						SIEVE AN ASTM	
CLIENT:	Cai	van	DESCRIPTION:	Fine Ag	gregate	FILE NO.:	PG5570
CONTRACT NO.:		-	SPECIFICATION:	Silty	Clay	LAB NO.:	31581
PROJECT:			INTENDED USE:		-	DATE REC'D:	10-Jan-22
111002011	Flewelly	n Road	PIT OR QUARRY:		-	DATE TESTED:	11-Jan-22
DATE SAMPLED:	15/16/17	-DEC-21	SOURCE LOCATION	ON: B	H37-22; SS3	DATE REP'D:	14-Jan-22
SAMPLED BY:	A. Emi	merton	SAMPLE LOCATION	ON:	5'7" to 7'0"	TESTED BY:	D.K.
WEIGHT BEFORE	WASH					354.8	
WEIGHT AFTER W	VASH					256.6	
SIEVE SIZE (mm)	WEIGHT RETAINED	PERCENT RETAINED	PERCENT PASSING	LOWER SPEC	UPPER SPEC	REM	ARK
150							
106							
75							
63							
53							
37.5							
26.5							
19							
16							
13.2							
9.5							
6.7							
4.75							
2.36							
1.18	0.0	0.0	100.0				
0.6	0.6	0.2	99.8				
0.3	9.3	2.6	97.4				
0.15	96.8	27.3	72.7				
0.075	227.7	64.2	35.8				
PAN	256.4						
SIEVE CHECK FIN	IE	0.08	0	.3% max.		REFERENCE	
OTHER TESTS					RESULT	LAB NO.	RESULT
		Curtis Beadov	V		Joe Fo	rsyth, P. Eng.	
REVIEWED BY:	Low	Ru			Joe 1	7-2	

patersol consulting en	ngroup ngineers									SIEVE AN ASTM (			
LIENT:	Caivan	DESCRIPTION:			Fine	Aggregate	F	ILE NO:				PG5570	
ONTRACT NO.:	-	SPECIFICATION	:	SIL		D/SANDY SILT		AB NO:				31582	
ROJECT:	Geotechnical Investigation -	INTENDED USE:				-	D	ATE RECEIV	ED:			10-Jan-22	
TIOULOT.	6115 Flewellyn Road	PIT OR QUARRY	<b>′</b> :			-	D	ATE TESTED	):			11-Jan-22	
DATE SAMPLED:	15/16/17-DEC-21	SOURCE LOCAT	TION:		BH38-2	2; SS3 + SS4	D	ATE REPOR	TED:			14-Jan-22	
SAMPLED BY:	A. Emmerton	SAMPLE LOCAT	ION:		5'0	)" to 9'6"	Т	ESTED BY:				D.K.	
0.0	01	0.1			Sie 1	ve Size (mm)		10				100	
90.0													
70.0													
60.0													
% 50.0 40.0													
30.0													
20.0													
0.0													
	Silt and Clay		S	and				Gravel				Cobble	
	Silt allu Clay	Fir		Medium	Coarse	Fine			Coarse			CODDIE	
lentification		Soil Class				MC(%)		LL	PL	PI		<b>Cc</b> 0.56	<b>Cu</b> 1.8
	D100 D60 4.75 0.018	D30 0.01	D10 0.01		Gravel (%) 0.0		Sand ( 21.0		Sili	(%)	79.		y (%)
,	Comments:	,				<u>'</u>							
REVIEWE	ED BY:	Ln	Curtis Beado	ow				Joe	Joe Fosy	th, P. Eng			

patersor consulting en						SIEVE AN ASTM (	
CLIENT:	Cai	van	DESCRIPTION:	Fine Ag	gregate	FILE NO.:	PG5570
CONTRACT NO.:		-	SPECIFICATION:	Silty	Clay	LAB NO.:	31582
PROJECT:			INTENDED USE:			DATE REC'D:	10-Jan-22
	Flewelly	n Road	PIT OR QUARRY:			DATE TESTED:	11-Jan-22
DATE SAMPLED:	15/16/17	-DEC-21	SOURCE LOCATION	ON: BH38-22	2; SS3 + SS4	DATE REP'D:	14-Jan-22
SAMPLED BY:	A. Emr	merton	SAMPLE LOCATIO	N:	5'0" to 9'6"	TESTED BY:	D.K.
WEIGHT BEFORE	WASH					299.7	
WEIGHT AFTER W	/ASH					88.6	
SIEVE SIZE (mm)	WEIGHT RETAINED	PERCENT RETAINED	PERCENT PASSING	LOWER SPEC	UPPER SPEC	REMA	ARK
150							
106							
75							
63							
53							
37.5							
26.5							
19							
16							
13.2							
9.5							
6.7							
4.75	0.0	0.0	100.0				
2.36	0.2	0.1	99.9				
1.18	1.1	0.4	99.6				
0.6	4.5	1.5	98.5				
0.3	13.4	4.5	95.5				
0.15	25.4	8.5	91.5				
0.075	63.0	21.0	79.0				
PAN	88.5						
SIEVE CHECK FIN	E	0.11	0.	.3% max.		REFERENCE	
OTHER TESTS					RESULT	LAB NO.	RESULT
		Oundia D			1. =	words D.F.	
REVIEWED BY:	Low	Curtis Beadow			Joe Fo	rsyth, P. Eng.	

PATERSOI	٧										SIEVE ANALYS ASTM C136	ıs	
CLIENT:	Cai	van	DEPTH:			2'6" to	o 4'6"		FILE NO:			PG5570	
CONTRACT NO.:			BH OR TP No.:			BH1-2			LAB NO:			39280	
PROJECT:	6115 Flev	wellyn Rd				_GLACIA	AL TILL	·	DATE RECEI	/ED:		6-Oct-22	
									DATE TESTE	D:		18-Oct-22	
DATE SAMPLED:	30-Se								DATE REPOR	RTED:		20-Oct-22	
SAMPLED BY:	K	В							TESTED BY:			DK/CS	
0.0 100.0	01		0.01		0.1	Sie	ve Size (mm	1		10	*	100	
90.0													
80.0													
70.0													
60.0						*							
% 50.0 40.0													
30.0													
20.0													
10.0	•	•											
Clay			Silt				and			Gravel		Cobble	T
				.6. (.	Fine	e Mo	edium	Coarse	Fin		Coarse		
Identification			Soil Clas	sification				<b>MC(%)</b> 9.6	LL	PL	PI	Сс	Cu
	D100	D60	D30	D10		Gravel (%) 18.3			nd (%) 17.9		It (%) 31.2	Clay (% 2.5	5)
	Comme	nts:				10.3		4	F. 1.9			2.5	
REVIEWED	BY:		Curtis Beadow					De	Joe Fors	yth, P. Eng.			



#### HYDROMETER LS-702 ASTM-422

Joe Forsyth, P. Eng.

CLIENT:		Caivan		DEPTH:	2'6" to	o 4'6"	FILE NO.:	PG5570		
PROJECT:	6	115 Flewellyn F	₹d	BH OR TP No.:	BH1-2	2 SS2	DATE SAMPLEI	30-Sep-22		
_AB No. :		39280		TESTED BY:	DK	/CS	DATE RECEIVE	6-Oct-22		
SAMPLED BY:		KB		DATE REPT'D:	20-O	ct-22	DATE TESTED:	18-Oct-22		
			SAI	MPLE INFORMAT	TION					
	SAMPLE	E MASS			SI	PECIFIC GRAV	TITY	Υ		
	525	5.7				2.700				
NITIAL WEIGH	Г	50.00		•	HYGROSCOP	IC MOISTURE				
WEIGHT CORR	ECTED	49.72	TARE WEIGHT		50.		ACTUAL V	VEIGHT		
	SH BACK SIEVE		AIR DRY		528		478.			
	CENTRATION	40 g/L	OVEN DRY		525		475.			
			CORRECTED							
			•	AIN SIZE ANALY	'SIS		0.994			
SIE	VE DIAMETER (n	nm)		ETAINED (g)	PERCENT	PERCENT	PASSING			
	26.5			0	0.	.0	100	.0		
	19		5	2.1	9.	.9	90.	1		
	13.2		6	2.5	11	.9	88.	1		
	9.5		6	9.8	13	3.3	86.	7		
	4.75		9	6.3	18	3.3	81.7			
	2.0		12	20.1	22		77.	2		
	Pan		40	14.8						
	0.850		3	.27	27	'.9	72.	1		
	0.425		7	.64	34	6	4			
	0.250		13	3.36	43	3.5	56.	5		
	0.106		24	l.66	60	).9	39.	1		
	0.075		28	3.13	66	5.3	33.	7		
	Pan		28	3.95						
SIEVE	CHECK	0.0	MAX	= 0.3%						
			•	YDROMETER DA	TA					
ELAPSED	TIME (24 hours)	Hs	Нс	Temp. (°C)	DIAMETER	(P)	TOTAL PERCE	NT PASSING		
1	6:01	20.0	6.0	23.0	0.0467	27.8	21.	5		
2	6:02	17.0	6.0	23.0	0.0336	21.9	16.			
5	6:05	14.5	6.0	23.0	0.0216	16.9	13.			
15	6:15	13.0	6.0	23.0	0.0126	13.9	10.			
30	6:30	12.0	6.0	23.0	0.0090	11.9	9.2			
60	7:00	10.0	6.0	23.0	0.0064	7.9	6.1			
250	10:10	8.0	6.0	23.0	0.0032	4.0	3.1			
1440	1440 6:00 8.0 6.0			23.0	0.0013	4.0	3.1	<u> </u>		

C. Beadow

PATERSON GROUP	1									SIEVE ANALYSI ASTM C136	s	
CLIENT:	Caivan	DEPTH:			7'6" t	to 9'6"		FILE NO:			PG5570	
CONTRACT NO.:		BH OR TP No.:			BH3 <u>-</u> 2	22 SS4		LAB NO:			39281	
PROJECT:	6115 Flewellyn Rd			SILTY	SAND T	O SAND	_ Y SILT_	DATE RECEIVED	D:		6-Oct-22	
1110020				0.2	<b>O</b> / (1 C )	0 0,		DATE TESTED:			18-Oct-22	
DATE SAMPLED:	30-Sep-22							DATE REPORTE	ED:		20-Oct-22	
SAMPLED BY:	КВ							TESTED BY:			DK/CS	
0.002 100.0	1	0.01		0.1	Sie	eve Size (mm)	1	•	10		100	
90.0												
80.0												
70.0												
60.0												
<b>%</b> 50.0												
40.0												
30.0												
20.0												
10.0												
Clay		Silt			Si	and			Gravel		Cobble	
				Fine	M	ledium	Coarse	Fine		Coarse		
Identification		Soil Classification	on				MC(%) 22.9	LL	PL	PI	Сс	Cu
	D100 D60	D30 E	D10	G	Gravel (%) 0.0		San	d (%) 7.5		t (%) 7.0	Clay (% 5.5	) )
	Comments:				0.0		ľ				5.5	
		Curtis	Beadow						Joe Forsy	yth, P. Eng.		
REVIEWED I	3Y:	Lu.	Ru					ge.	Joe Fors			



#### HYDROMETER LS-702 ASTM-422

Joe Forsyth, P. Eng.

CLIENT:		Caivan		DEPTH:	7'6" to	o 9'6"	FILE NO.:	PG5570				
PROJECT:	6	115 Flewellyn	Rd	BH OR TP No.:	BH4-2	2 SS4	DATE SAMPLEI	30-Sep-22				
AB No. :		39281		TESTED BY:	DK	CS	DATE RECEIVE	6-Oct-22				
SAMPLED BY:		KB		DATE REPT'D:	20-O	ct-22	DATE TESTED:	18-Oct-22				
			SA	MPLE INFORMA	TION							
	SAMPLE	E MASS			SI	PECIFIC GRAV	/ITY					
	130	).5				2.700						
NITIAL WEIGH	Т	50.00			HYGROSCOP	IC MOISTURE						
WEIGHT CORR	RECTED	49.75	TARE WEIGH	Т	50.	00	ACTUAL V	WEIGHT				
NT. AFTER WA	ASH BACK SIEVE	3.95	AIR DRY	130.90 80.90								
SOLUTION CON	NCENTRATION	40 g/L	OVEN DRY	130.50 80.50								
			CORRECTED		0.995							
			G	RAIN SIZE ANALY	/SIS							
SIE	VE DIAMETER (n	nm)	WEIGHT F	RETAINED (g)	PERCENT	RETAINED	PERCENT	PASSING				
	26.5											
	19											
	13.2											
	9.5			0.0	0.	0	100.0					
	4.75			0.0	0.	.0	100.0					
	2.0			0.1	0.1			.9				
	Pan		1	30.4								
	0.850		(	0.22	0.	5	99.	.5				
	0.425		(	0.39	0.	9	99.1					
	0.250		(	0.80	1.	7	98.	.3				
	0.106		2	2.17	4.	4	95.	6				
	0.075		3	3.71	7.	5	92.	.5				
	Pan		3	3.95								
SIEVE	CHECK	0.0	MAX	<b>C</b> = 0.3%								
			H	IYDROMETER DA	TA							
ELAPSED	TIME (24 hours)	Hs	Нс	Temp. (°C)	DIAMETER	(P)	TOTAL PERCE	NT PASSIN				
1	6:21	30.0	6.0	23.0	0.0435	47.7	47.	6				
2	6:22	26.0	6.0	23.0	0.0317	39.7	39.	.7				
5	6:25	20.0	6.0	23.0	0.0209	27.8	27.					
15	6:35 14.0 6.0			23.0	0.0125	15.9	15.					
30				23.0	0.0089	13.9	13.9					
60				23.0	0.0063	11.9	11.					
250	10:30	10.0	6.0	23.0	0.0031	7.9	7.9					
1440	6:20 8.0 6.0			23.0	0.0013	4.0	4.0	U				

C. Beadow

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PATERSC GROUP	)N									SIEVE ANALYSIS ASTM C136			
CLIENT:	Cai	van	DEPTH:			7'6" to 9'6"		FILE NO:			PG5570		
CONTRACT NO.:			BH OR TP No.:			BH4 -22 SS4		LAB NO:			PG5570 39282 6-Oct-22 20-Oct-22 DK/CS  100  Cobble  PI Cc Cu  Clay (%) 3.5		
PROJECT:	6115 Flev	wollyn Rd				GLACIAL TIL	L	DATE RECEIVED	D:		6-Oct-22		
FROJECT.	01101101	veliyii ixu						DATE TESTED:			20-Oct-22		
DATE SAMPLED:	30-Se							DATE REPORTE	D:		21-Oct-22		
SAMPLED BY:	K	В						TESTED BY:			DK/CS		
0. 100.0	.001		0.01		0.1	Sieve Size (n	nm) 1		10	•	100		
90.0													
80.0													
70.0													
60.0													
<b>%</b> 50.0													
40.0													
30.0													
20.0													
10.0													
						Sand		1	Gravel			$\neg$	
Cla	У		Silt		Fine	Medium	Coarse	Fine		Coarse	Cobble		
Identification			Soil Class	sification			MC(%)	LL	PL	PI	Сс	Cu	
,	D100	D60	D30	D10	l Gra	avel (%)	15.1 San	d (%)	Silt	t (%)	Clay (%	2)	
						19.4		3.3		3.8	3.5	,	
	Comme	nts:											
				Curtis Beadow				700	Joe Forsy	/th, P. Eng.			
REVIEWE	D BY:		L	n Ru				Joe	Joe Forsy				



#### HYDROMETER LS-702 ASTM-422

Joe Forsyth, P. Eng.

CLIENT:		Caivan		DEPTH:	7'6" to	o 9'6"	FILE NO.:	PG5570			
PROJECT:	6	3115 Flewellyn I	Rd	BH OR TP No.:	BH5-2	2 SS4	DATE SAMPLEI	30-Sep-22			
LAB No. :		39282		TESTED BY:	DK	'CS	DATE RECEIVE	6-Oct-22			
SAMPLED BY:		KB		DATE REPT'D:	21-0	ct-22	DATE TESTED:	20-Oct-22			
			SA	MPLE INFORMAT	ΓΙΟΝ						
	SAMPL	E MASS			SI	PECIFIC GRAV	TY				
	563	3.6				2.700					
INITIAL WEIGH	Т	50.00			HYGROSCOP	IC MOISTURE					
WEIGHT CORR	ECTED	49.61	TARE WEIGHT	-	50.	00	ACTUAL V	VEIGHT			
WT. AFTER WA	SH BACK SIEVE	12.87	AIR DRY		567	.60	517.	60			
SOLUTION CON	NCENTRATION	40 g/L	OVEN DRY		563	.60	513.	60			
			CORRECTED	RRECTED 0.992							
			GF	RAIN SIZE ANALY	'SIS		0.592				
SIE	VE DIAMETER (r	nm)	WEIGHT R	ETAINED (g)	PERCENT	RETAINED	PERCENT	PASSING			
	26.5			0	0.	.0	100	.0			
	19		6	0.1	10		89.	3			
	13.2		7	7.4	13		86.	3			
	9.5		9	4.2		5.7	83.	3			
	4.75		10	09.4	19		80.	6			
	2.0		13	30.8	23		76.	8			
	Pan		43	32.8							
							•				
	0.850		2	.05	26	.4	73.	6			
	0.425		5	.20	31	.2	68.	8			
	0.250		8	.09	35	.6	64.	4			
	0.106		11	1.50	40	.9	59.	1			
	0.075		12	2.67	42	7	57.	3			
	Pan		12	2.87							
SIEVE	CHECK	0.0	MAX	= 0.3%							
			н	YDROMETER DA	TA						
ELAPSED	TIME (24 hours)	Hs	Нс	Temp. (°C)	DIAMETER	(P)	TOTAL PERCE	NT PASSING			
1	6:25	32.0	6.0	23.0	0.0428	51.8	39.	8			
2	6:26	30.0	6.0	23.0	0.0307	47.8	36.	7			
5	6:29	18.0	6.0	23.0	0.0211	23.9	18.				
15	6:39	16.0	6.0	23.0	0.0124	19.9	15.				
30	6:54	13.0	6.0	23.0	0.0089	13.9	10.				
60	7:24	11.0	6.0	23.0 0.0064 10.0			7.6				
250	10:34	10.0	6.0	23.0	0.0031	8.0	6.1				
1440	440 6:24 7.0 6.0			23.0	0.0013	2.0	1.5	,			

C. Beadow

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PATERSO	ON .										SIEVE ANALYSI: ASTM C136	s	
CLIENT:	Caivan		DEPTH:			5'0" to	o 7'0"		FILE NO:			PG5570	
CONTRACT NO.:			BH OR TP No.:			BH5 <u></u> 2	2 SS3		LAB NO:			39283	
PROJECT:	6115 Flewelly	wn Rd		SILTY SA	AND TO	SANDY S	SILT W	/ GRAVEL	DATE RECEIVED	):		6-Oct-22	
1110020									DATE TESTED:			18-Oct-22	
DATE SAMPLED:	30-Sep-2	22							DATE REPORTE	D:		20-Oct-22	
SAMPLED BY:	KB								TESTED BY:			DK/CS	
0.0 100.0	.001		0.01		0.1	Siev	ve Size (mm	1		10		100	
90.0													
80.0													
70.0													
60.0													
<b>%</b> 50.0													
40.0													
30.0													
20.0													
10.0	•												
Clay	у		Silt				and			Gravel		Cobble	
Identification			Soil Class	sification	Fine	e Me	edium	Coarse MC(%)	Fine	PL	Coarse	Cc	Cu
identification								18.7					
	D100	D60	D30	D10		Gravel (%) 3.3			d (%) 5.1		lt (%) 65.6	Clay (% 6.0	)
	Comments	d.			1				·			, 3.0	
DEVIEWE				Curtis Beadow						Joe Fors	yth, P. Eng.		
REVIEWEI	D RA:		L	n Ru					Je	12			



#### HYDROMETER LS-702 ASTM-422

Joe Forsyth, P. Eng.

CLIENT:		Caivan		DEPTH:	5'0" to	7'0"	FILE NO.:	PG5570	
ROJECT:	6	3115 Flewellyn	Rd	d BH OR TP No.: BH6-22 SS3		DATE SAMPLEI	30-Sep-22		
AB No. :		39283	TESTED BY:		DK/	CS	DATE RECEIVE	6-Oct-22	
SAMPLED BY:		KB		DATE REPT'D:	20-0	ct-22	DATE TESTED:	18-Oct-22	
			SAI	MPLE INFORMAT	ΓΙΟΝ				
	SAMPL	E MASS			SF	PECIFIC GRAV	/ITY		
	13	1.1				2.700			
NITIAL WEIGH	IGHT 50.00 HYGROSCOPIC MOISTURE								
VEIGHT CORR	RECTED	53.01	TARE WEIGHT	-	50.00		ACTUAL WEIGH		
VT. AFTER WA	ASH BACK SIEVE	13.56	AIR DRY	AIR DRY		126.50		76.50	
OLUTION CO	NCENTRATION	40 g/L	OVEN DRY			131.10		10	
- 1 - 3 -			CORRECTED						
			GR	RAIN SIZE ANALY	'SIS				
				ETAINED (g)	PERCENT RETAINED		PERCENT PASSING		
	26.5			0	0.0		100.0		
	19		C	0.0		0.0		100.0	
	13.2		0.0		0.0		100.0		
	9.5		0.0		0.0		100.0		
	4.75		4.3		3.3		96.7		
2.0			e	6.8		5.2		8	
	Pan		12	24.3					
	0.850		0.91		6.9		93.	1	
	0.425		2.04		9.1		90.	9	
	0.250		3.96		12.7		87.3		
	0.106		9.23		22.7		77.3		
	0.075		12	2.25	28.4		71.6		
	Pan		13	3.56					
SIEVE	CHECK	0.0	MAX = 0.3%						
			н	YDROMETER DA	TA				
ELAPSED	TIME (24 hours)	Hs	Нс	Temp. (°C)	DIAMETER	(P)	TOTAL PERCE	NT PASSIN	
1	6:25	32.5	6.0	23.0	0.0426	49.4	46.	8	
2	6:26	26.0	6.0	23.0	0.0317	37.3	35.	3	
5	6:29	20.0	6.0	23.0	0.0209	26.1	24.		
15	6:39	15.5	6.0	23.0	0.0124	17.7	16.		
30	6:54	14.0	6.0	23.0	0.0089	14.9	14.		
60	7:24	11.5	6.0	23.0	0.0064	10.3	9.7		
250	10:34	10.0	6.0	23.0 0.0031 7.5		7.1			
1440	6:24	9.0	6.0	23.0	0.0013 5.6		5.3	3	

C. Beadow

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Certificate of Analysis

Order #: 2047663

Report Date: 27-Nov-2020

 Client:
 Paterson Group Consulting Engineers
 Order Date: 20-Nov-2020

 Client PO:
 31285
 Project Description: PG5570

	_						
	Client ID:	TP4-GR3	-	-	-		
	Sample Date:	20-Nov-20 13:00	-	-	-		
	Sample ID:	2047663-01	-	-	-		
	MDL/Units	Soil	-	-	-		
Physical Characteristics					•		
% Solids	0.1 % by Wt.	89.0	-	-	-		
General Inorganics							
pH	0.05 pH Units	7.60	-	-	-		
Resistivity	0.10 Ohm.m	93.8	-	-	-		
Anions							
Chloride	5 ug/g dry	<5	-	-	-		
Sulphate	5 ug/g dry	<5	-	-	-		



Order #: 2051099

Certificate of Analysis

Client: Paterson Group Consulting Engineers

Report Date: 17-Dec-2020

Order Date: 14-Dec-2020

Client PO: 31363 Project Description: PG5570

	_						
	Client ID:	TPF-G2	-	-	-		
	Sample Date:	11-Dec-20 15:30	-	-	-		
	Sample ID:	2051099-01	-	-	-		
	MDL/Units	Soil	-	-	-		
Physical Characteristics							
% Solids	0.1 % by Wt.	82.7	-	-	-		
General Inorganics							
рН	0.05 pH Units	7.33	-	-	-		
Resistivity	0.10 Ohm.m	101	-	-	-		
Anions		•	•				
Chloride	5 ug/g dry	<5	-	-	-		
Sulphate	5 ug/g dry	<5	-	-	-		



Order #: 2151599

Certificate of AnalysisReport Date: 22-Dec-2021Client:Paterson Group Consulting EngineersOrder Date: 17-Dec-2021

Client PO: 33505 Project Description: PG5570

	-					
	Client ID:	BH17-21 SS3	-	-	-	
	Sample Date:	16-Dec-21 09:00	-	-	-	
	Sample ID:	2151599-01	-	-	-	
	MDL/Units	Soil	-	-	-	
Physical Characteristics						
% Solids	0.1 % by Wt.	81.9	-	-	-	
General Inorganics						
рН	0.05 pH Units	7.73	-	-	-	
Resistivity	0.10 Ohm.m	48.9	-	-	-	
Anions						
Chloride	5 ug/g dry	34	-	-	-	
Sulphate	5 ug/g dry	24	=	-	-	



Order #: 2152465

Certificate of Analysis

Client: Paterson Group Consulting Engineers

Client PO: 33585

Report Date: 04-Jan-2022

Order Date: 23-Dec-2021

Project Description: PG5570

	-						
	Client ID:	BH34-21 SS3	-	-	=		
	Sample Date:	22-Dec-21 09:00	-	<del>-</del>	-		
	Sample ID:	2152465-01	-	-	-		
	MDL/Units	Soil	-	-	-		
Physical Characteristics			•				
% Solids	0.1 % by Wt.	84.6	-	-	-		
General Inorganics							
На	0.05 pH Units	7.75	-	-	1		
Resistivity	0.10 Ohm.m	81.3	-	-	-		
Anions							
Chloride	5 ug/g dry	12	-	-	-		
Sulphate	5 ug/g dry	9	-	-	-		



## **APPENDIX 3**

PH4625-1 - SURFICIAL GEOLOGY PLAN

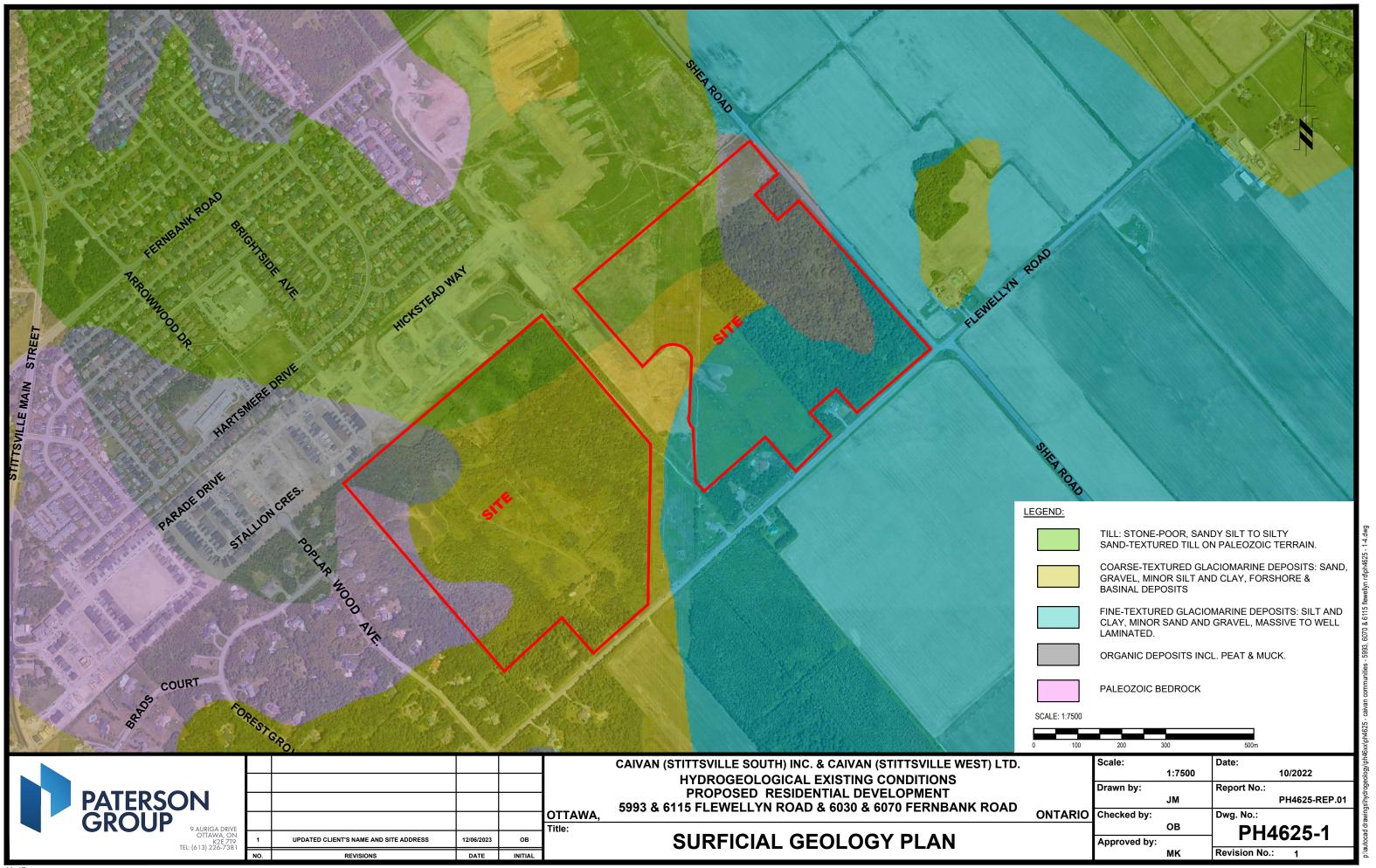
PH4625-2 - DRIFT THICKNESS PLAN

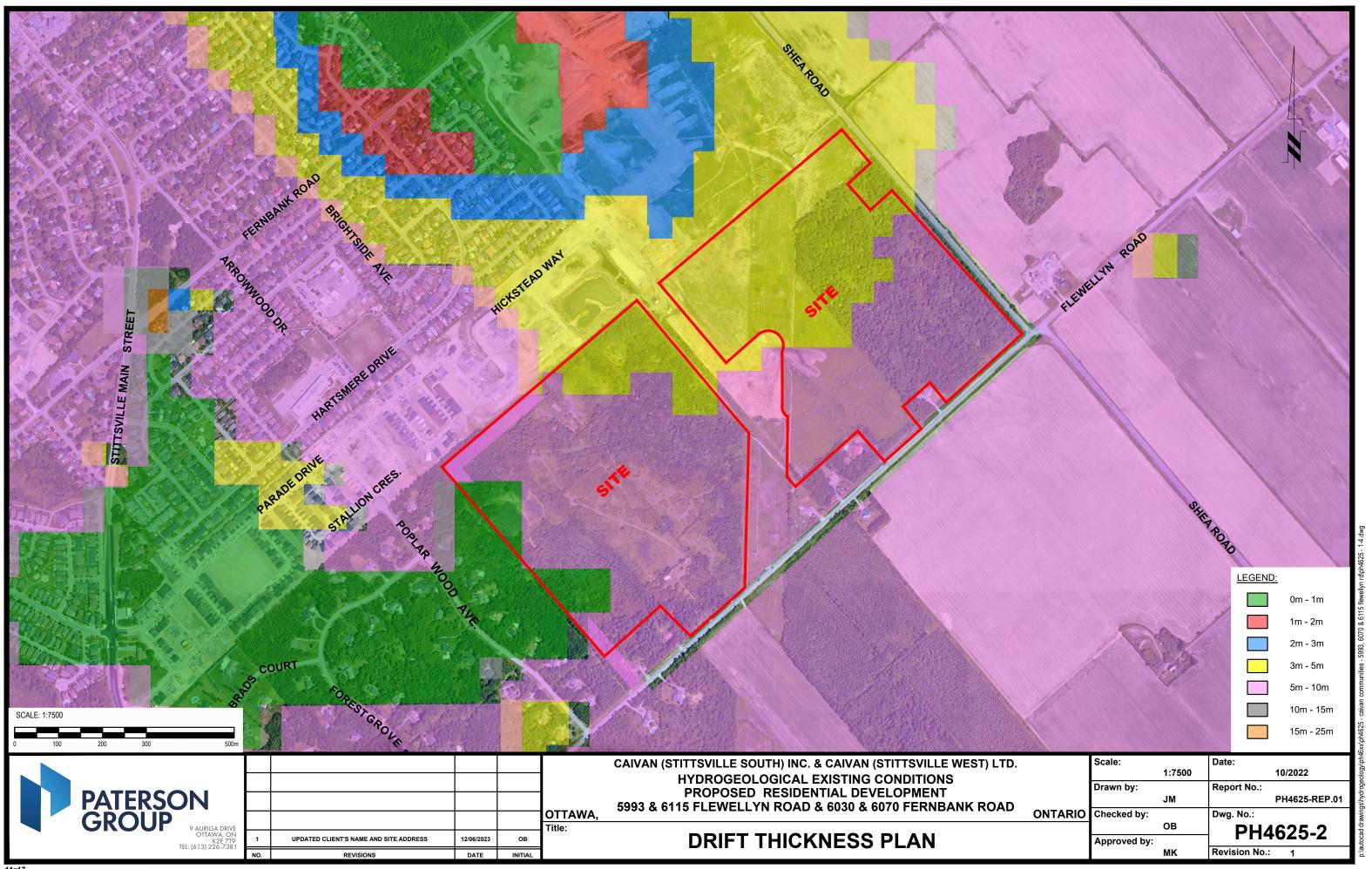
PH4625-3 - BEDROCK GEOLOGY PLAN

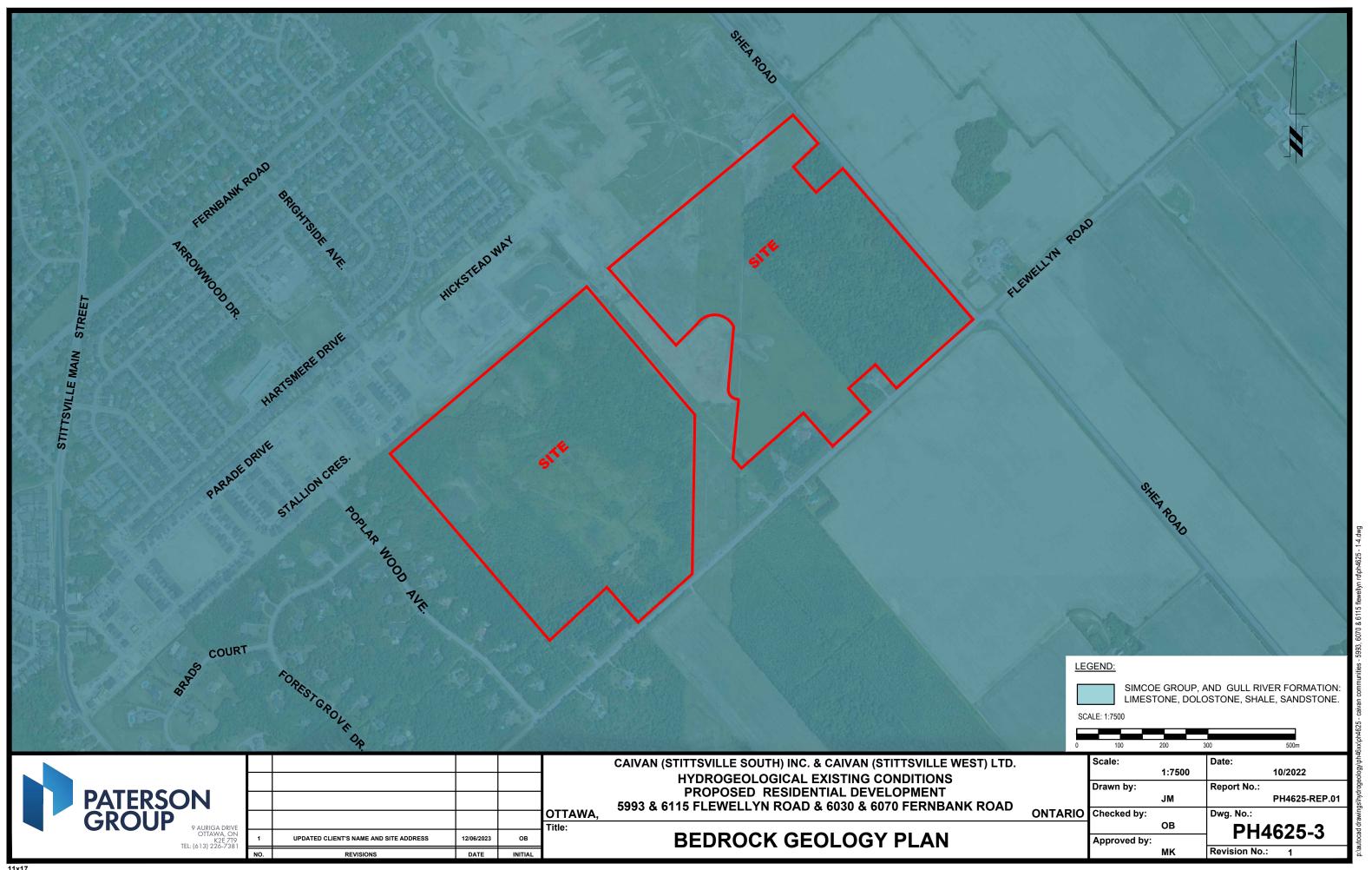
PH4625-4 - MECP WATER WELL LOCATION PLAN

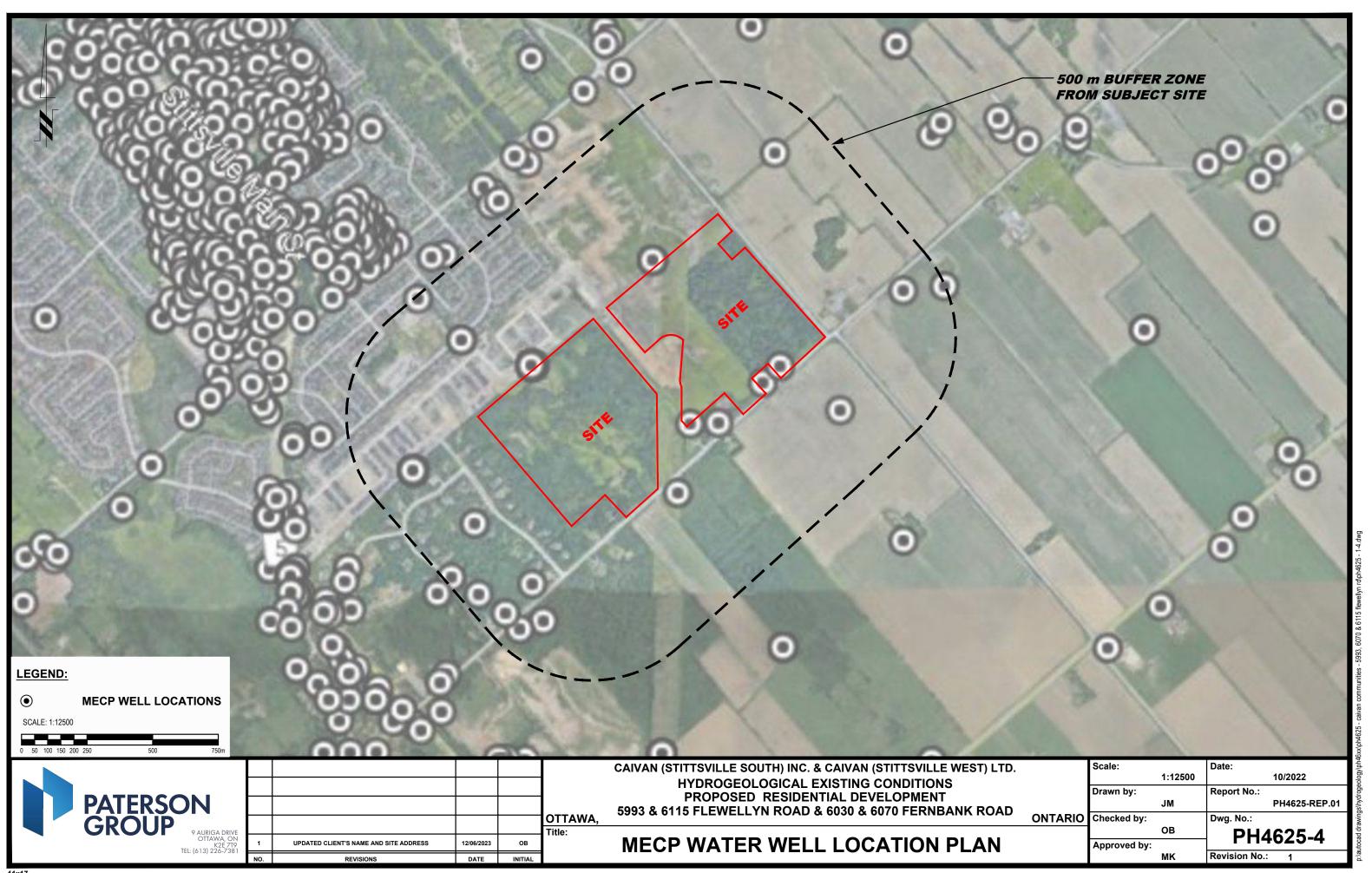
PH4625-5 - GROUNDWATER CONTOUR PLAN

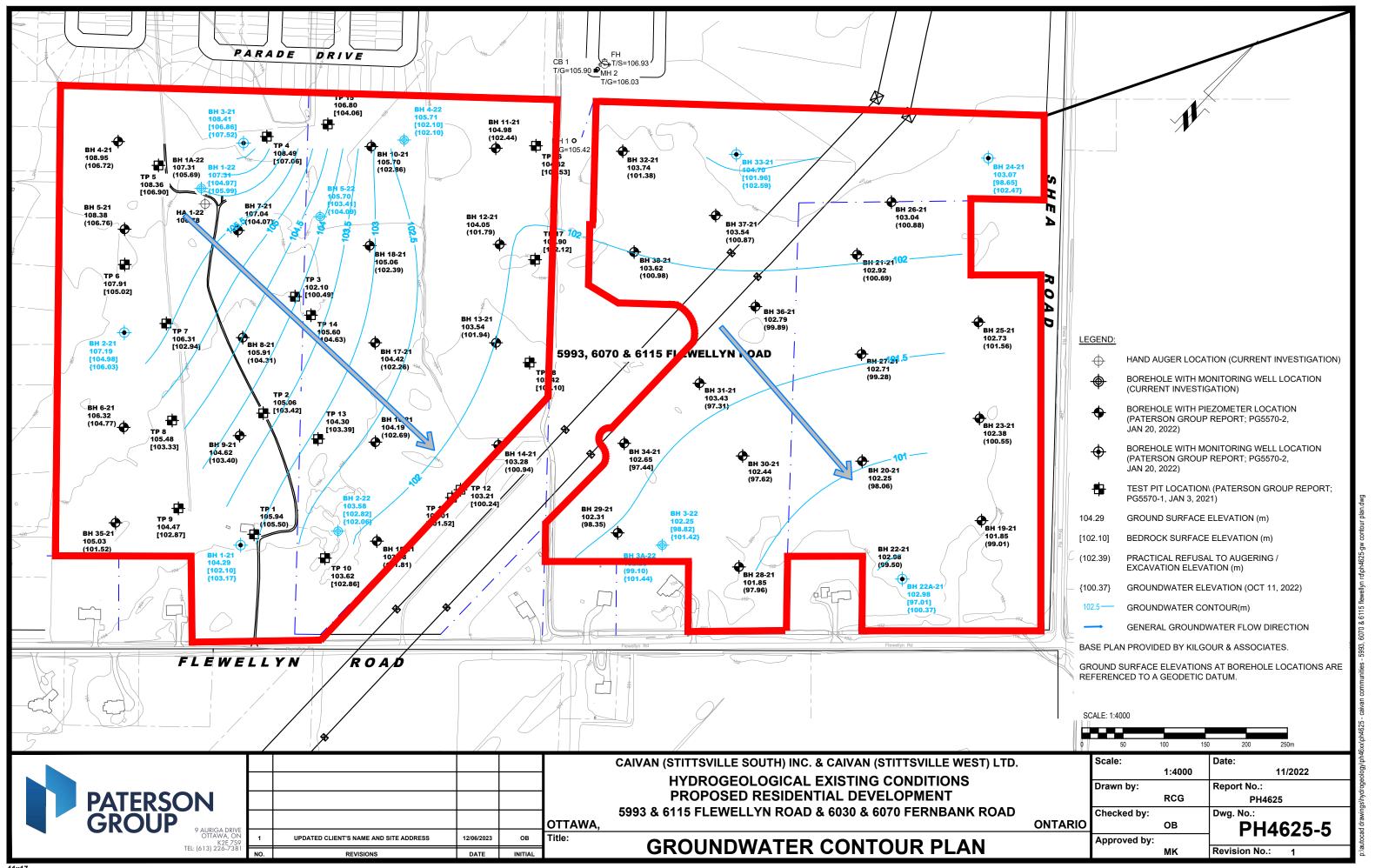
PG5570-2.- BEDROCK CONTOUR PLAN

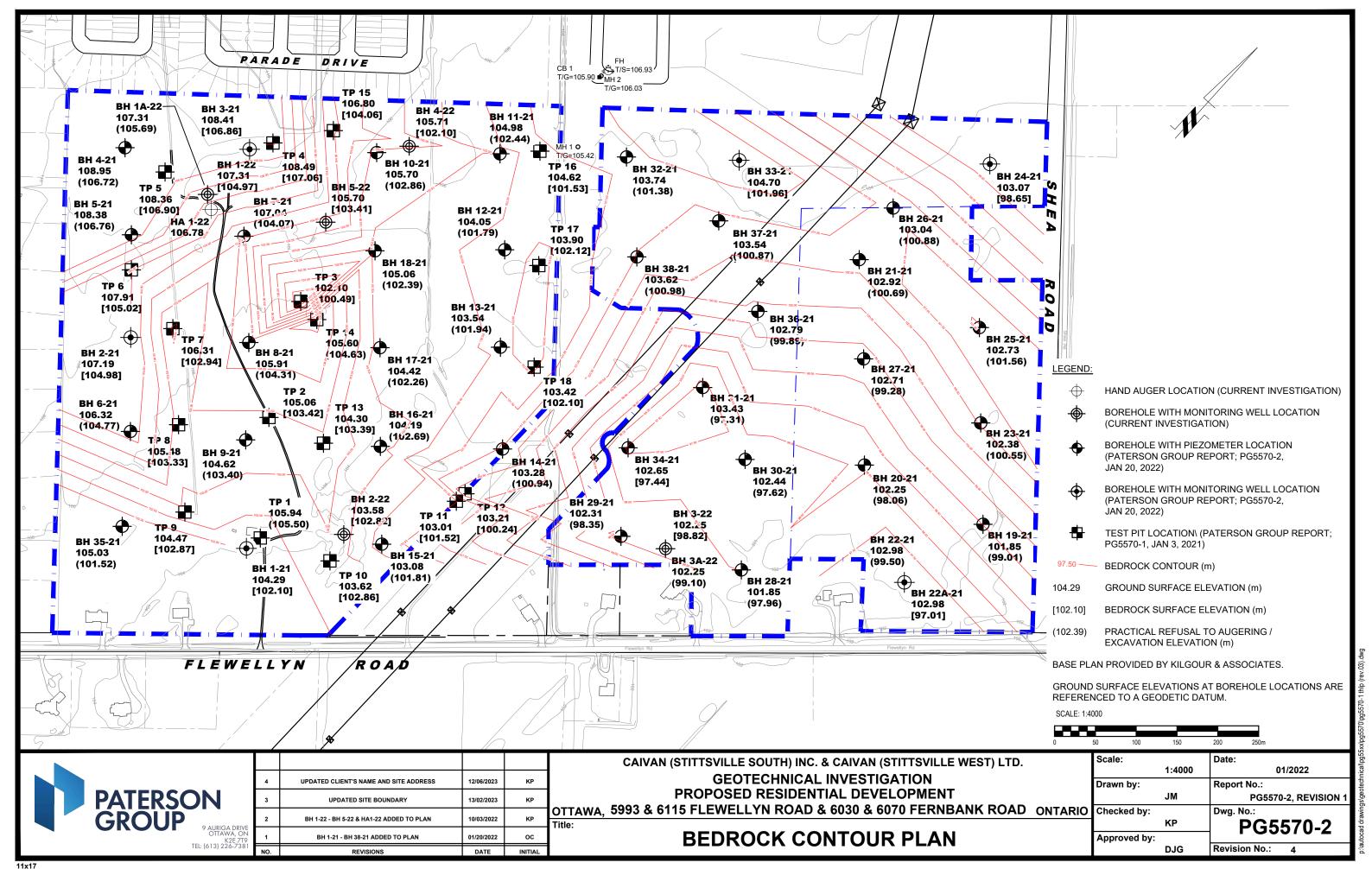














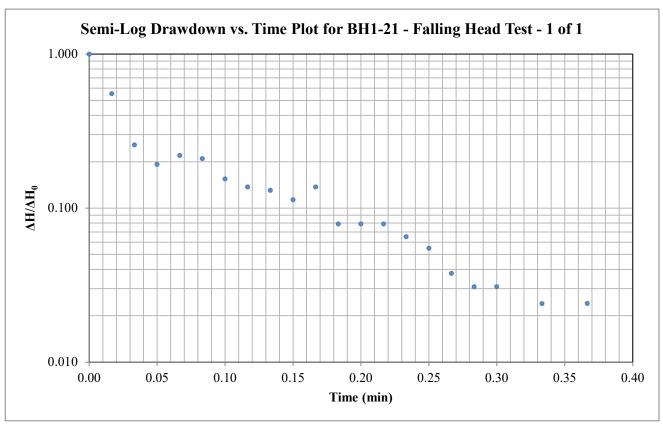
# **APPENDIX 4**

HYDRAULIC CONDUCTIVITY RESULTS - FALLING AND RISING HEAD TESTS

## **Hvorslev Hydraulic Conductivity Analysis**

Project: Caivan - 5993 and 6115 Flewellyn Road and 6030 and 6070 Fernbank Road

Test Location: BH1-21 Test: Falling Head - 1 of 1 Date: October 11, 2022



Hvorslev Horizontal Hydraulic Conductivity

Hvorslev Shape Factor

$$K = \frac{\pi r_c^2}{F} \frac{1}{t^*} \ln \left( \frac{\Delta H^*}{\Delta H_0} \right)$$

$$F = \frac{2\pi L}{\ln\left(\frac{2L}{D}\right)}$$

Valid for L>>D

Hvorslev Shape Factor F: 3.59613

Well Parameters:

L 3 m Saturated length of screen or open hole

 $\begin{array}{ccc} D & 0.03175 \text{ m} & \text{Diameter of well} \\ r_c & 0.01588 \text{ m} & \text{Radius of well} \end{array}$ 

Data Points (from plot):

t\*: 0.027 minutes  $\Delta H^*/\Delta H_0$ : 0.37

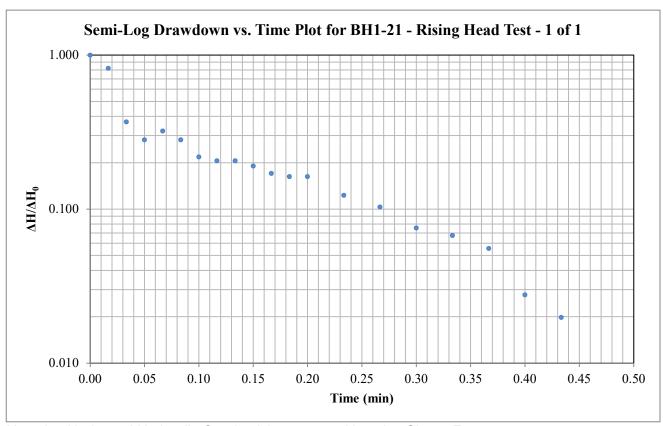
Horizontal Hydraulic Conductivity K = 1.35E-04 m/sec



## **Hvorslev Hydraulic Conductivity Analysis**

Project: Caivan - 5993 and 6115 Flewellyn Road and 6030 and 6070 Fernbank Road

Test Location: BH1-21 Test: Rising Head - 1 of 1 Date: October 11, 2022



Hvorslev Horizontal Hydraulic Conductivity

Hvorslev Shape Factor

$$K = \frac{\pi r_c^2}{F} \frac{1}{t^*} \ln \left( \frac{\Delta H^*}{\Delta H_0} \right)$$

$$F = \frac{2\pi L}{\ln\left(\frac{2L}{D}\right)}$$

Valid for L>>D

3.59613

Hvorslev Shape Factor F:

Well Parameters:

L 3 m Saturated length of screen or open hole

 $\begin{array}{ccc} D & 0.03175 \text{ m} & \text{Diameter of well} \\ r_c & 0.01588 \text{ m} & \text{Radius of well} \end{array}$ 

Data Points (from plot):

t\*: 0.033 minutes  $\Delta H^*/\Delta H_0$ : 0.37

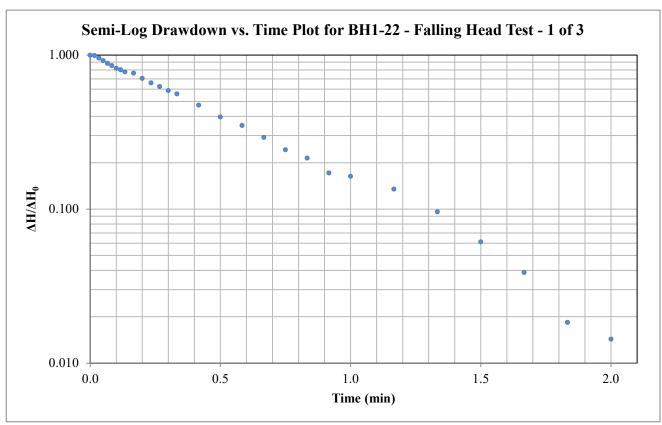
Horizontal Hydraulic Conductivity K = 1.10E-04 m/sec



## **Hvorslev Hydraulic Conductivity Analysis**

Project: Caivan - 5993 and 6115 Flewellyn Road and 6030 and 6070 Fernbank Road

Test Location: BH1-22 Test: Falling Head - 1 of 3 Date: October 7, 2022



Hvorslev Horizontal Hydraulic Conductivity

Hvorslev Shape Factor

$$K = \frac{\pi r_c^2}{F} \frac{1}{t^*} \ln \left( \frac{\Delta H^*}{\Delta H_0} \right)$$

$$F = \frac{2\pi L}{\ln\left(\frac{2L}{D}\right)}$$

Valid for L>>D

Hvorslev Shape Factor F: 2.07207

Well Parameters:

L 1.5 m Saturated length of screen or open hole

 $\begin{array}{ccc} D & 0.03175 \text{ m} & \text{Diameter of well} \\ r_c & 0.01588 \text{ m} & \text{Radius of well} \end{array}$ 

Data Points (from plot):

t\*: 0.516 minutes  $\Delta H^*/\Delta H_0$ : 0.37

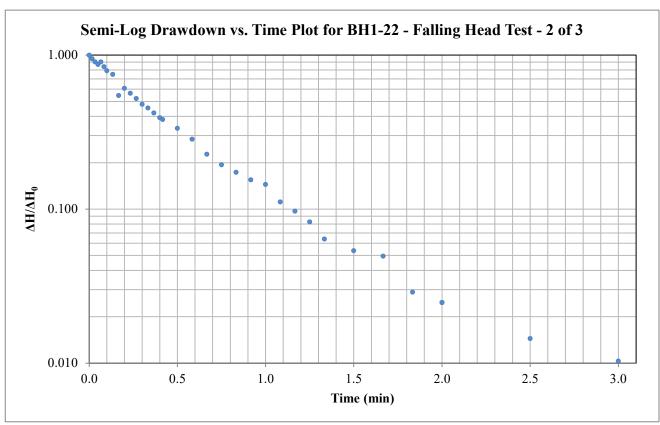
Horizontal Hydraulic Conductivity K = 1.23E-05 m/sec



## **Hvorslev Hydraulic Conductivity Analysis**

Project: Caivan - 5993 and 6115 Flewellyn Road and 6030 and 6070 Fernbank Road

Test Location: BH1-22 Test: Falling Head - 2 of 3 Date: October 7, 2022



Hvorslev Horizontal Hydraulic Conductivity

Hvorslev Shape Factor

$$K = \frac{\pi r_c^2}{F} \frac{1}{t^*} \ln \left( \frac{\Delta H^*}{\Delta H_0} \right)$$

$$F = \frac{2\pi L}{\ln\left(\frac{2L}{D}\right)}$$

Valid for L>>D

Hvorslev Shape Factor F: 2.07207

Well Parameters:

L 1.5 m Saturated length of screen or open hole

 $\begin{array}{ccc} D & 0.03175 \text{ m} & \text{Diameter of well} \\ r_c & 0.01588 \text{ m} & \text{Radius of well} \end{array}$ 

Data Points (from plot):

t\*: 0.428 minutes  $\Delta H^*/\Delta H_0$ : 0.37

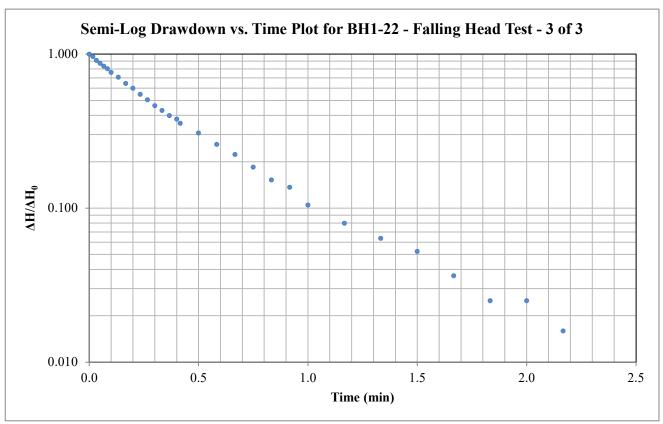
Horizontal Hydraulic Conductivity K = 1.48E-05 m/sec



## **Hvorslev Hydraulic Conductivity Analysis**

Project: Caivan - 5993 and 6115 Flewellyn Road and 6030 and 6070 Fernbank Road

Test Location: BH1-22 Test: Falling Head - 3 of 3 Date: October 7, 2022



Hvorslev Horizontal Hydraulic Conductivity

Hvorslev Shape Factor

$$K = \frac{\pi r_c^2}{F} \frac{1}{t^*} \ln \left( \frac{\Delta H^*}{\Delta H_0} \right)$$

$$F = \frac{2\pi L}{\ln\left(\frac{2L}{D}\right)}$$

Valid for L>>D

Hvorslev Shape Factor F: 2.07207

Well Parameters:

L 1.5 m Saturated length of screen or open hole

 $\begin{array}{ccc} D & 0.03175 \text{ m} & \text{Diameter of well} \\ r_c & 0.01588 \text{ m} & \text{Radius of well} \end{array}$ 

Data Points (from plot):

t\*: 0.406 minutes  $\Delta H^*/\Delta H_0$ : 0.37

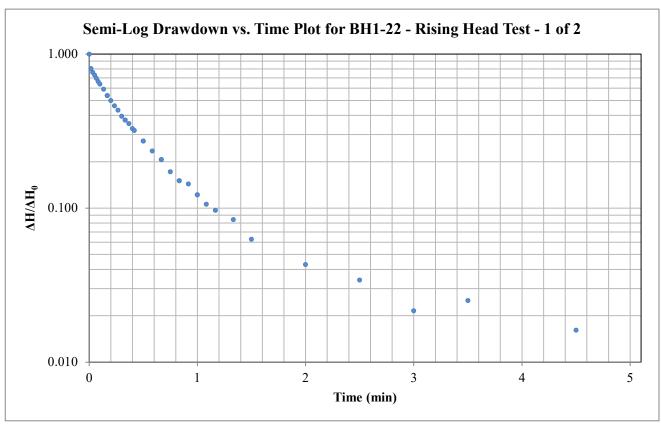
Horizontal Hydraulic Conductivity K = 1.56E-05 m/sec



## **Hvorslev Hydraulic Conductivity Analysis**

Project: Caivan - 5993 and 6115 Flewellyn Road and 6030 and 6070 Fernbank Road

Test Location: BH1-22 Test: Rising Head - 1 of 2 Date: October 7, 2022



Hvorslev Horizontal Hydraulic Conductivity

Hvorslev Shape Factor

$$K = \frac{\pi r_c^2}{F} \frac{1}{t^*} \ln \left( \frac{\Delta H^*}{\Delta H_0} \right)$$

$$F = \frac{2\pi L}{\ln\left(\frac{2L}{D}\right)}$$
 Valid for L>>D

Hvorslev Shape Factor F: 2.07207

Well Parameters:

L 1.5 m Saturated length of screen or open hole

 $\begin{array}{ccc} D & 0.03175 \text{ m} & \text{Diameter of well} \\ r_c & 0.01588 \text{ m} & \text{Radius of well} \end{array}$ 

Data Points (from plot):

t\*: 0.341 minutes  $\Delta H^*/\Delta H_0$ : 0.37

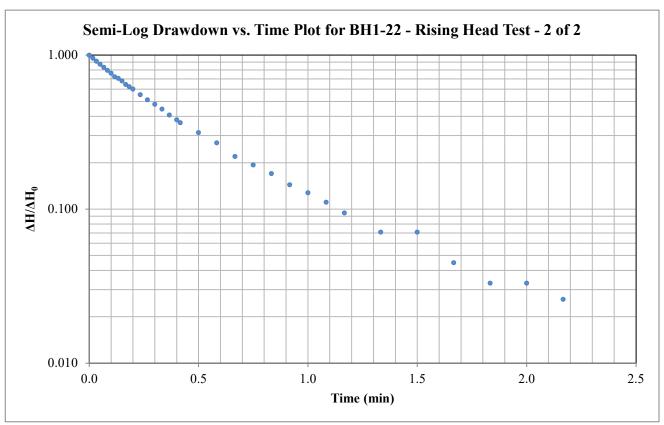
Horizontal Hydraulic Conductivity K = 1.86E-05 m/sec



## **Hvorslev Hydraulic Conductivity Analysis**

Project: Caivan - 5993 and 6115 Flewellyn Road and 6030 and 6070 Fernbank Road

Test Location: BH1-22 Test: Rising Head - 2 of 2 Date: October 7, 2022



Hvorslev Horizontal Hydraulic Conductivity

Hvorslev Shape Factor

$$K = \frac{\pi r_c^2}{F} \frac{1}{t^*} \ln \left( \frac{\Delta H^*}{\Delta H_0} \right)$$

$$F = \frac{2\pi L}{\ln\left(\frac{2L}{D}\right)}$$

Valid for L>>D

Hvorslev Shape Factor F: 2.07207

Well Parameters:

L 1.5 m Saturated length of screen or open hole

 $\begin{array}{ccc} D & 0.03175 \text{ m} & \text{Diameter of well} \\ r_c & 0.01588 \text{ m} & \text{Radius of well} \end{array}$ 

Data Points (from plot):

t\*: 0.411 minutes  $\Delta H^*/\Delta H_0$ : 0.37

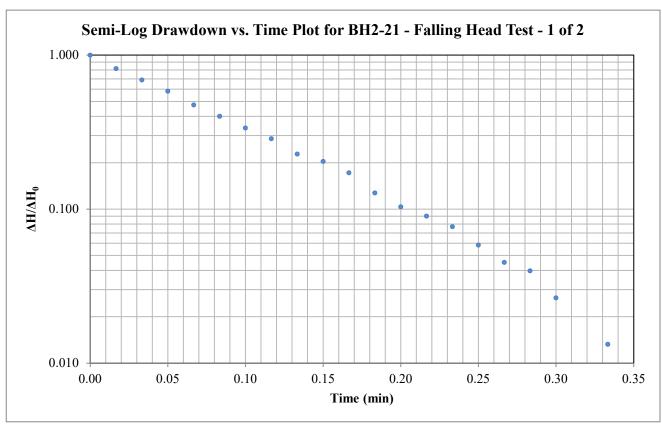
Horizontal Hydraulic Conductivity K = 1.54E-05 m/sec



## **Hvorslev Hydraulic Conductivity Analysis**

Project: Caivan - 5993 and 6115 Flewellyn Road and 6030 and 6070 Fernbank Road

Test Location: BH2-21 Test: Falling Head - 1 of 2 Date: October 7, 2022



Hvorslev Horizontal Hydraulic Conductivity

Hvorslev Shape Factor

$$K = \frac{\pi r_c^2}{F} \frac{1}{t^*} \ln \left( \frac{\Delta H^*}{\Delta H_0} \right)$$

$$F = \frac{2\pi L}{\ln\left(\frac{2L}{D}\right)}$$
 Valid for L>>D

Hvorslev Shape Factor F:

3.59613

Well Parameters:

3 m Saturated length of screen or open hole

D 0.03175 m Diameter of well  $r_{c}$ 0.01588 m Radius of well

Data Points (from plot):

t\*:  $\Delta H^*/\Delta H_0$ : 0.091 minutes 0.37

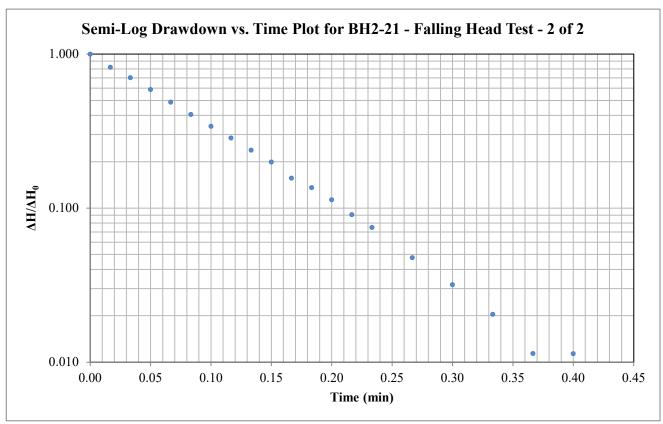
**Horizontal Hydraulic Conductivity** 3.99E-05 m/sec **K** =



## **Hvorslev Hydraulic Conductivity Analysis**

Project: Caivan - 5993 and 6115 Flewellyn Road and 6030 and 6070 Fernbank Road

Test Location: BH2-21 Test: Falling Head - 2 of 2 Date: October 7, 2022



Hvorslev Horizontal Hydraulic Conductivity

Hvorslev Shape Factor

$$K = \frac{\pi r_c^2}{F} \frac{1}{t^*} \ln \left( \frac{\Delta H^*}{\Delta H_0} \right)$$

$$F = \frac{2\pi L}{\ln\left(\frac{2L}{D}\right)}$$
 Valid for L>>D

Hvorslev Shape Factor F: 3.59613

Well Parameters:

L 3 m Saturated length of screen or open hole

 $\begin{array}{ccc} D & 0.03175 \text{ m} & \text{Diameter of well} \\ r_c & 0.01588 \text{ m} & \text{Radius of well} \end{array}$ 

Data Points (from plot):

t\*: 0.092 minutes  $\Delta H^*/\Delta H_0$ : 0.37

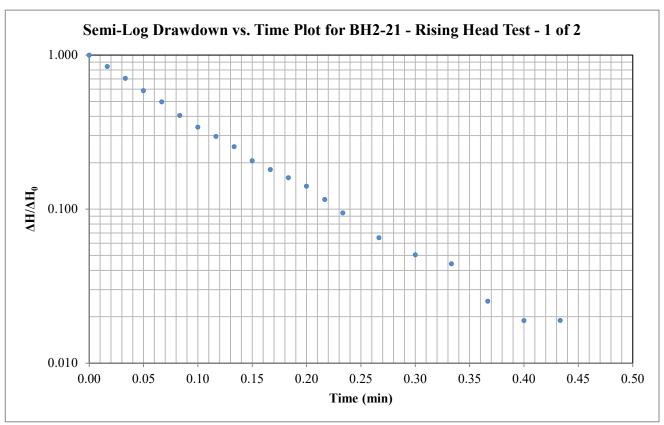
Horizontal Hydraulic Conductivity K = 3.95E-05 m/sec



## **Hvorslev Hydraulic Conductivity Analysis**

Project: Caivan - 5993 and 6115 Flewellyn Road and 6030 and 6070 Fernbank Road

Test Location: BH2-21 Test: Rising Head - 1 of 2 Date: October 7, 2022



Hvorslev Horizontal Hydraulic Conductivity

Hvorslev Shape Factor

$$K = \frac{\pi r_c^2}{F} \frac{1}{t^*} \ln \left( \frac{\Delta H^*}{\Delta H_0} \right)$$

$$F = \frac{2\pi L}{\ln\left(\frac{2L}{D}\right)}$$
 Valid for L>>D

Hvorslev Shape Factor F: 3.59613

Well Parameters:

L 3 m Saturated length of screen or open hole

 $\begin{array}{ccc} D & 0.03175 \text{ m} & \text{Diameter of well} \\ r_c & 0.01588 \text{ m} & \text{Radius of well} \end{array}$ 

Data Points (from plot):

t\*: 0.093 minutes  $\Delta H^*/\Delta H_0$ : 0.37

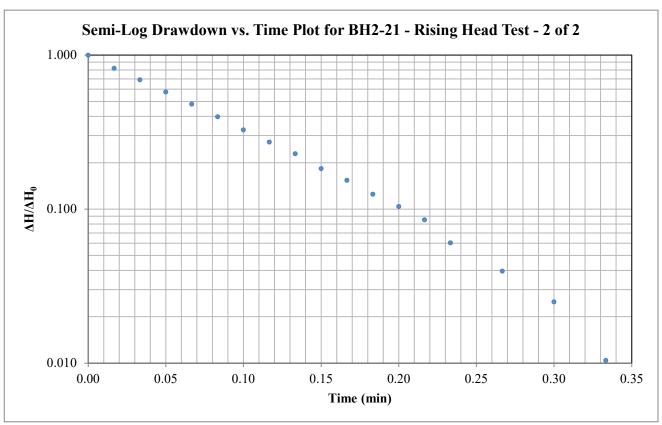
Horizontal Hydraulic Conductivity K = 3.94E-05 m/sec



## **Hvorslev Hydraulic Conductivity Analysis**

Project: Caivan - 5993 and 6115 Flewellyn Road and 6030 and 6070 Fernbank Road

Test Location: BH2-21 Test: Rising Head - 2 of 2 Date: October 7, 2022



Hvorslev Horizontal Hydraulic Conductivity

Hvorslev Shape Factor

$$K = \frac{\pi r_c^2}{F} \frac{1}{t^*} \ln \left( \frac{\Delta H^*}{\Delta H_0} \right)$$

$$F = \frac{2\pi L}{\ln\left(\frac{2L}{D}\right)}$$

Valid for L>>D

Hvorslev Shape Factor F: 3.59613

Well Parameters:

L 3 m Saturated length of screen or open hole

 $\begin{array}{ccc} D & 0.03175 \text{ m} & \text{Diameter of well} \\ r_c & 0.01588 \text{ m} & \text{Radius of well} \end{array}$ 

Data Points (from plot):

t\*: 0.090 minutes  $\Delta H^*/\Delta H_0$ : 0.37

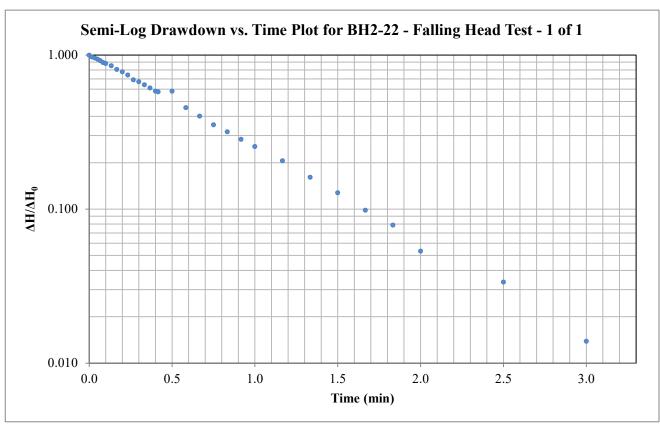
Horizontal Hydraulic Conductivity K = 4.06E-05 m/sec



#### **Hvorslev Hydraulic Conductivity Analysis**

Project: Caivan - 5993 and 6115 Flewellyn Road and 6030 and 6070 Fernbank Road

Test Location: BH2-22 Test: Falling Head - 1 of 1 Date: October 7, 2022



Hvorslev Horizontal Hydraulic Conductivity

Hvorslev Shape Factor

$$K = \frac{\pi r_c^2}{F} \frac{1}{t^*} \ln \left( \frac{\Delta H^*}{\Delta H_0} \right)$$

$$F = \frac{2\pi L}{\ln\left(\frac{2L}{D}\right)}$$

Valid for L>>D

Hvorslev Shape Factor F: 2.07207

Well Parameters:

L 1.5 m Saturated length of screen or open hole

 $\begin{array}{ccc} D & 0.03175 \text{ m} & \text{Diameter of well} \\ r_c & 0.01588 \text{ m} & \text{Radius of well} \end{array}$ 

Data Points (from plot):

t\*: 0.712 minutes  $\Delta H^*/\Delta H_0$ : 0.37

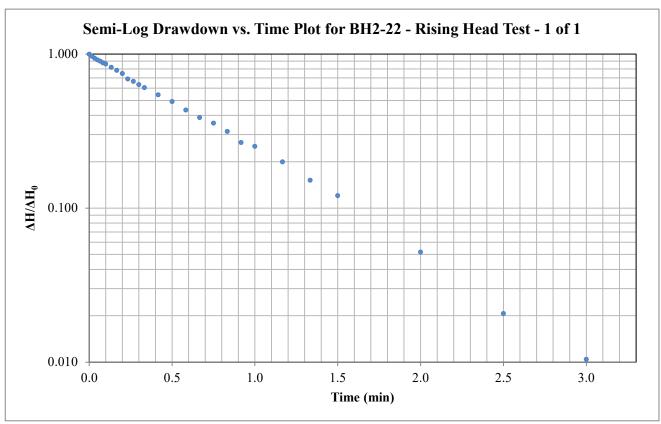
Horizontal Hydraulic Conductivity
K = 8.89E-06 m/sec



#### **Hvorslev Hydraulic Conductivity Analysis**

Project: Caivan - 5993 and 6115 Flewellyn Road and 6030 and 6070 Fernbank Road

Test Location: BH2-22 Test: Rising Head - 1 of 1 Date: October 7, 2022



Hvorslev Horizontal Hydraulic Conductivity

Hvorslev Shape Factor

$$K = \frac{\pi r_c^2}{F} \frac{1}{t^*} \ln \left( \frac{\Delta H^*}{\Delta H_0} \right)$$

$$F = \frac{2\pi L}{\ln\!\left(\frac{2L}{D}\right)}$$

Valid for L>>D

Hvorslev Shape Factor F: 2.07207

Well Parameters:

L 1.5 m Saturated length of screen or open hole

 $\begin{array}{ccc} D & 0.03175 \text{ m} & \text{Diameter of well} \\ r_c & 0.01588 \text{ m} & \text{Radius of well} \end{array}$ 

Data Points (from plot):

t\*: 0.697 minutes  $\Delta H^*/\Delta H_0$ : 0.37

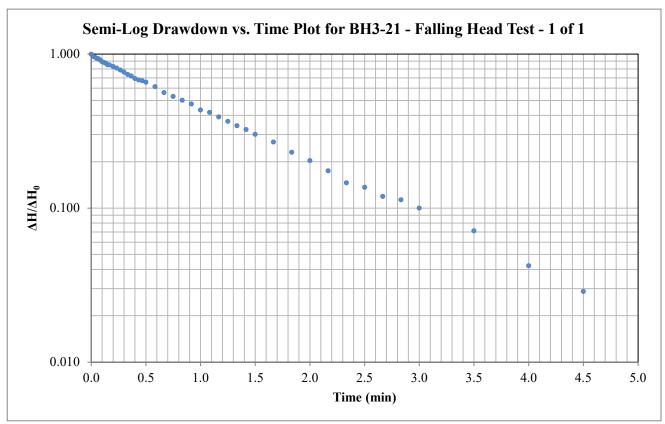
Horizontal Hydraulic Conductivity K = 9.09E-06 m/sec



#### **Hvorslev Hydraulic Conductivity Analysis**

Project: Caivan - 5993 and 6115 Flewellyn Road and 6030 and 6070 Fernbank Road

Test Location: BH3-21 Test: Falling Head - 1 of 1 Date: October 7, 2022



Hvorslev Horizontal Hydraulic Conductivity

Hvorslev Shape Factor

$$K = \frac{\pi r_c^2}{F} \frac{1}{t^*} \ln \left( \frac{\Delta H^*}{\Delta H_0} \right)$$

$$F = \frac{2\pi L}{\ln\left(\frac{2L}{D}\right)}$$

Hvorslev Shape Factor F:

Valid for L>>D

3.59613

Well Parameters:

L 3 m Saturated length of screen or open hole

 $\begin{array}{ccc} D & 0.03175 \text{ m} & \text{Diameter of well} \\ r_c & 0.01588 \text{ m} & \text{Radius of well} \end{array}$ 

Data Points (from plot):

t\*: 1.223 minutes  $\Delta H^*/\Delta H_0$ : 0.37

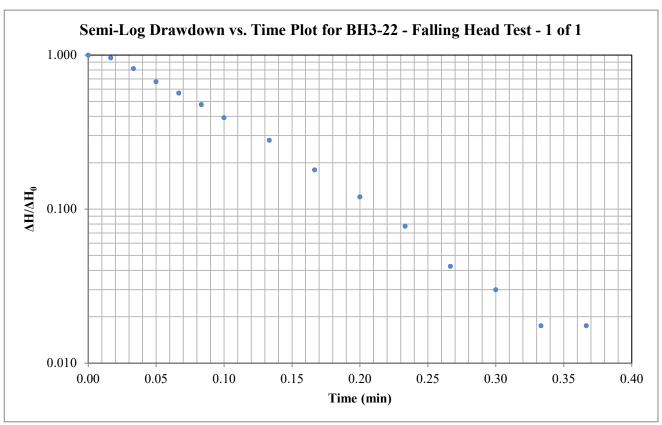
Horizontal Hydraulic Conductivity K = 2.98E-06 m/sec



#### **Hvorslev Hydraulic Conductivity Analysis**

Project: Caivan - 5993 and 6115 Flewellyn Road and 6030 and 6070 Fernbank Road

Test Location: BH3-22 Test: Falling Head - 1 of 1 Date: October 11, 2022



Hvorslev Horizontal Hydraulic Conductivity

Hvorslev Shape Factor

$$K = \frac{\pi r_c^2}{F} \frac{1}{t^*} \ln \left( \frac{\Delta H^*}{\Delta H_0} \right)$$

$$F = \frac{2\pi L}{\ln\left(\frac{2L}{D}\right)}$$

Valid for L>>D

Hvorslev Shape Factor F: 2.07207

Well Parameters:

L 1.5 m Saturated length of screen or open hole

 $\begin{array}{ccc} D & 0.03175 \text{ m} & \text{Diameter of well} \\ r_c & 0.01588 \text{ m} & \text{Radius of well} \end{array}$ 

Data Points (from plot):

t\*: 0.105 minutes  $\Delta H^*/\Delta H_0$ : 0.37

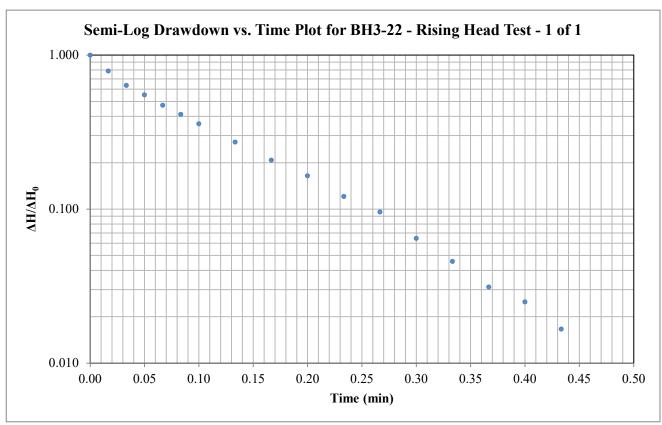
Horizontal Hydraulic Conductivity K = 6.01E-05 m/sec



#### **Hvorslev Hydraulic Conductivity Analysis**

Project: Caivan - 5993 and 6115 Flewellyn Road and 6030 and 6070 Fernbank Road

Test Location: BH3-22 Test: Rising Head - 1 of 1 Date: October 11, 2022



Hvorslev Horizontal Hydraulic Conductivity

Hvorslev Shape Factor

$$K = \frac{\pi r_c^2}{F} \frac{1}{t^*} \ln \left( \frac{\Delta H^*}{\Delta H_0} \right)$$

$$F = \frac{2\pi L}{\ln\left(\frac{2L}{D}\right)}$$

Valid for L>>D

Hvorslev Shape Factor F: 2.07207

Well Parameters:

L 1.5 m Saturated length of screen or open hole

 $\begin{array}{ccc} D & 0.03175 \text{ m} & \text{Diameter of well} \\ r_c & 0.01588 \text{ m} & \text{Radius of well} \end{array}$ 

Data Points (from plot):

t\*: 0.096 minutes  $\Delta H^*/\Delta H_0$ : 0.37

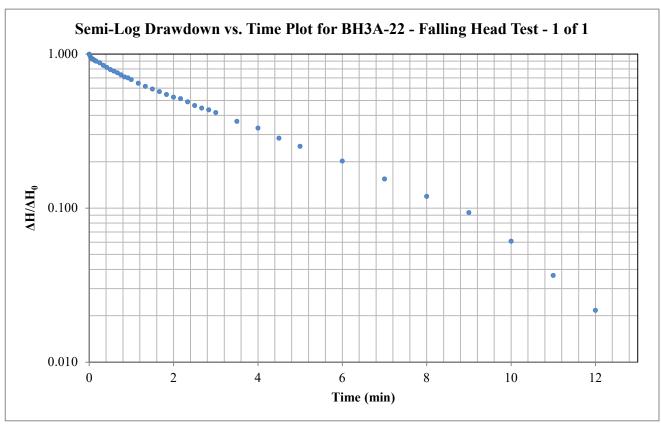
Horizontal Hydraulic Conductivity K = 6.57E-05 m/sec



#### **Hvorslev Hydraulic Conductivity Analysis**

Project: Caivan - 5993 and 6115 Flewellyn Road and 6030 and 6070 Fernbank Road

Test Location: BH3A-22 Test: Falling Head - 1 of 1 Date: October 11, 2022



Hvorslev Horizontal Hydraulic Conductivity

Hvorslev Shape Factor

$$K = \frac{\pi r_c^2}{F} \frac{1}{t^*} \ln \left( \frac{\Delta H^*}{\Delta H_0} \right)$$

$$F = \frac{2\pi L}{\ln\left(\frac{2L}{D}\right)}$$

Valid for L>>D

Hvorslev Shape Factor F: 2.31086

Well Parameters:

L 1.5 m Saturated length of screen or open hole

 $\begin{array}{ccc} D & 0.0508 \text{ m} & \text{Diameter of well} \\ r_c & 0.0254 \text{ m} & \text{Radius of well} \end{array}$ 

Data Points (from plot):

t\*: 3.485 minutes  $\Delta H^*/\Delta H_0$ : 0.37

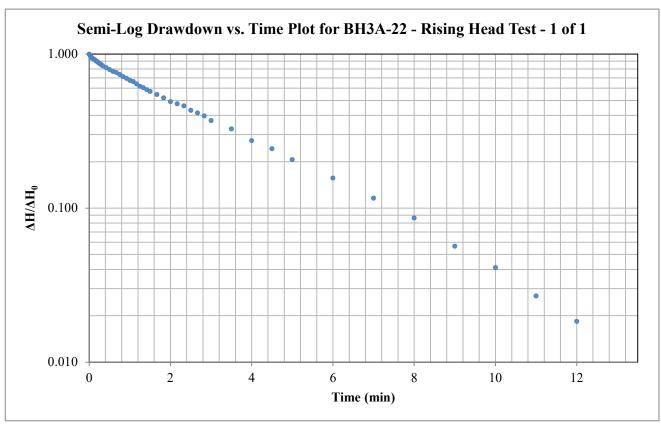
Horizontal Hydraulic Conductivity
K = 4.17E-06 m/sec



#### **Hvorslev Hydraulic Conductivity Analysis**

Project: Caivan - 5993 and 6115 Flewellyn Road and 6030 and 6070 Fernbank Road

Test Location: BH3A-22 Test: Rising Head - 1 of 1 Date: October 11, 2022



Hvorslev Horizontal Hydraulic Conductivity

Hvorslev Shape Factor

$$K = \frac{\pi r_c^2}{F} \frac{1}{t^*} \ln \left( \frac{\Delta H^*}{\Delta H_0} \right)$$

$$F = \frac{2\pi L}{\ln\left(\frac{2L}{D}\right)}$$

Valid for L>>D

Hvorslev Shape Factor F: 2.31086

Well Parameters:

L 1.5 m Saturated length of screen or open hole

 $\begin{array}{ccc} D & 0.0508 \text{ m} & \text{Diameter of well} \\ r_c & 0.0254 \text{ m} & \text{Radius of well} \end{array}$ 

Data Points (from plot):

t\*: 3.038 minutes  $\Delta H^*/\Delta H_0$ : 0.37

Horizontal Hydraulic Conductivity

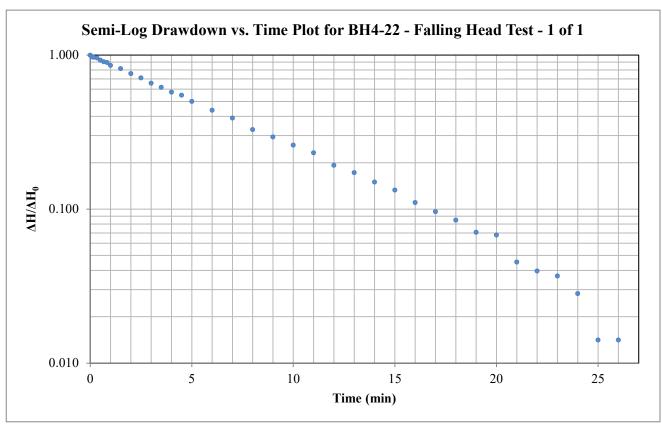
K = 4.78E-06 m/sec



#### **Hvorslev Hydraulic Conductivity Analysis**

Project: Caivan - 5993 and 6115 Flewellyn Road and 6030 and 6070 Fernbank Road

Test Location: BH4-22 Test: Falling Head - 1 of 1 Date: October 7, 2022



Hvorslev Horizontal Hydraulic Conductivity

Hvorslev Shape Factor

$$K = \frac{\pi r_c^2}{F} \frac{1}{t^*} \ln \left( \frac{\Delta H^*}{\Delta H_0} \right)$$

$$F = \frac{2\pi L}{\ln\left(\frac{2L}{D}\right)}$$

Valid for L>>D

Hvorslev Shape Factor F: 2.07207

Well Parameters:

L 1.5 m Saturated length of screen or open hole

 $\begin{array}{ccc} D & 0.03175 \text{ m} & \text{Diameter of well} \\ r_c & 0.01588 \text{ m} & \text{Radius of well} \end{array}$ 

Data Points (from plot):

t\*: 7.262 minutes  $\Delta H^*/\Delta H_0$ : 0.37

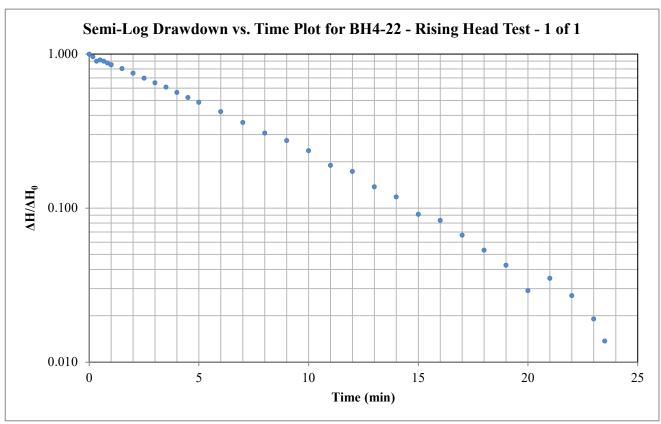
Horizontal Hydraulic Conductivity K = 8.72E-07 m/sec



#### **Hvorslev Hydraulic Conductivity Analysis**

Project: Caivan - 5993 and 6115 Flewellyn Road and 6030 and 6070 Fernbank Road

Test Location: BH4-22 Test: Rising Head - 1 of 1 Date: October 7, 2022



Hvorslev Horizontal Hydraulic Conductivity

Hvorslev Shape Factor

$$K = \frac{\pi r_c^2}{F} \frac{1}{t^*} \ln \left( \frac{\Delta H^*}{\Delta H_0} \right)$$

$$F = \frac{2\pi L}{\ln\left(\frac{2L}{D}\right)}$$

Valid for L>>D

Hvorslev Shape Factor F: 2.07207

Well Parameters:

L 1.5 m Saturated length of screen or open hole

 $\begin{array}{ccc} D & 0.03175 \text{ m} & \text{Diameter of well} \\ r_c & 0.01588 \text{ m} & \text{Radius of well} \end{array}$ 

Data Points (from plot):

t\*: 6.985 minutes  $\Delta H^*/\Delta H_0$ : 0.37

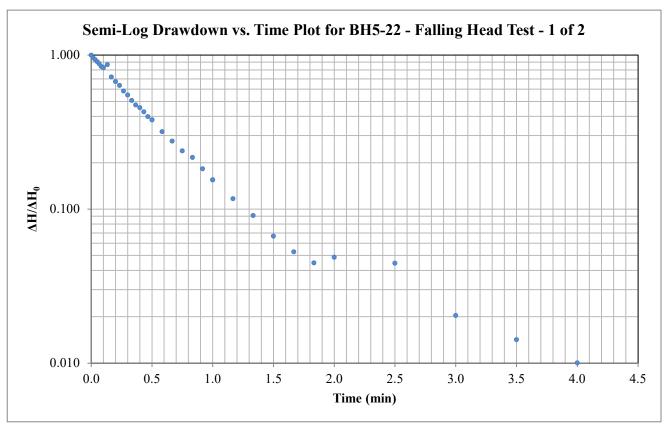
Horizontal Hydraulic Conductivity K = 9.06E-07 m/sec



#### **Hvorslev Hydraulic Conductivity Analysis**

Project: Caivan - 5993 and 6115 Flewellyn Road and 6030 and 6070 Fernbank Road

Test Location: BH5-22 Test: Falling Head - 1 of 2 Date: October 7, 2022



Hvorslev Horizontal Hydraulic Conductivity

Hvorslev Shape Factor

$$K = \frac{\pi r_c^2}{F} \frac{1}{t^*} \ln \left( \frac{\Delta H^*}{\Delta H_0} \right)$$

$$F = \frac{2\pi L}{\ln\left(\frac{2L}{D}\right)}$$
 Valid for L>>D

Hvorslev Shape Factor F: 2.07207

Well Parameters:

L 1.5 m Saturated length of screen or open hole

 $\begin{array}{ccc} D & 0.03175 \text{ m} & \text{Diameter of well} \\ r_c & 0.01588 \text{ m} & \text{Radius of well} \end{array}$ 

Data Points (from plot):

t\*: 0.521 minutes  $\Delta H^*/\Delta H_0$ : 0.37

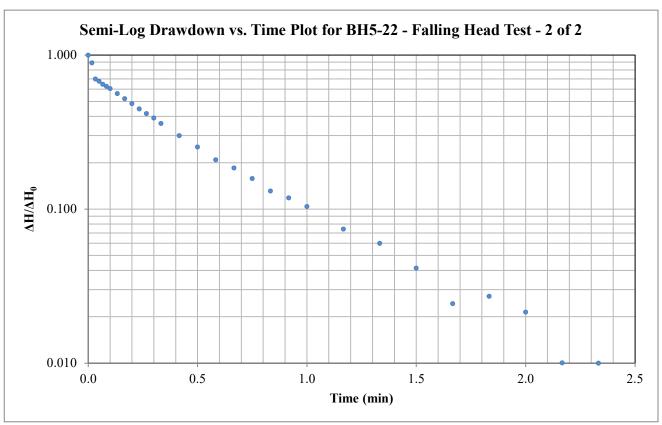
Horizontal Hydraulic Conductivity K = 1.21E-05 m/sec



#### **Hvorslev Hydraulic Conductivity Analysis**

Project: Caivan - 5993 and 6115 Flewellyn Road and 6030 and 6070 Fernbank Road

Test Location: BH5-22 Test: Falling Head - 2 of 2 Date: October 7, 2022



Hvorslev Horizontal Hydraulic Conductivity

Hvorslev Shape Factor

$$K = \frac{\pi r_c^2}{F} \frac{1}{t^*} \ln \left( \frac{\Delta H^*}{\Delta H_0} \right)$$

$$F = \frac{2\pi L}{\ln\left(\frac{2L}{D}\right)}$$

Valid for L>>D

Hvorslev Shape Factor F: 2.07207

Well Parameters:

L 1.5 m Saturated length of screen or open hole

 $\begin{array}{ccc} D & 0.03175 \text{ m} & \text{Diameter of well} \\ r_c & 0.01588 \text{ m} & \text{Radius of well} \end{array}$ 

Data Points (from plot):

t\*: 0.318 minutes  $\Delta H^*/\Delta H_0$ : 0.37

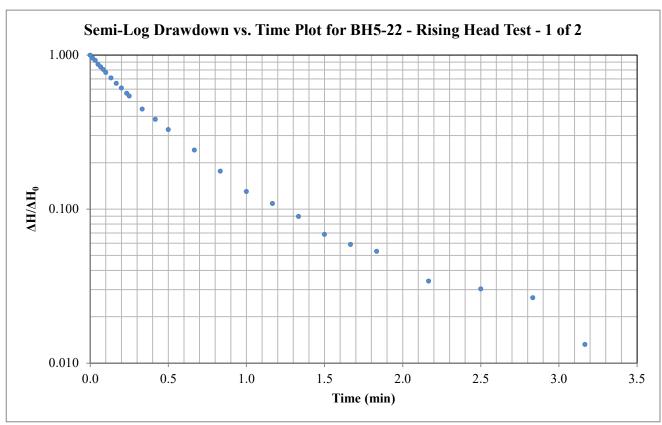
Horizontal Hydraulic Conductivity K = 1.99E-05 m/sec



#### **Hvorslev Hydraulic Conductivity Analysis**

Project: Caivan - 5993 and 6115 Flewellyn Road and 6030 and 6070 Fernbank Road

Test Location: BH5-22 Test: Rising Head - 1 of 2 Date: October 7, 2022



Hvorslev Horizontal Hydraulic Conductivity

Hvorslev Shape Factor

$$K = \frac{\pi r_c^2}{F} \frac{1}{t^*} \ln \left( \frac{\Delta H^*}{\Delta H_0} \right)$$

$$F = \frac{2\pi L}{\ln\left(\frac{2L}{D}\right)}$$

Valid for L>>D

Hvorslev Shape Factor F: 2.07207

Well Parameters:

L 1.5 m Saturated length of screen or open hole

 $\begin{array}{ccc} D & 0.03175 \text{ m} & \text{Diameter of well} \\ r_c & 0.01588 \text{ m} & \text{Radius of well} \end{array}$ 

Data Points (from plot):

t\*: 0.444 minutes  $\Delta H^*/\Delta H_0$ : 0.37

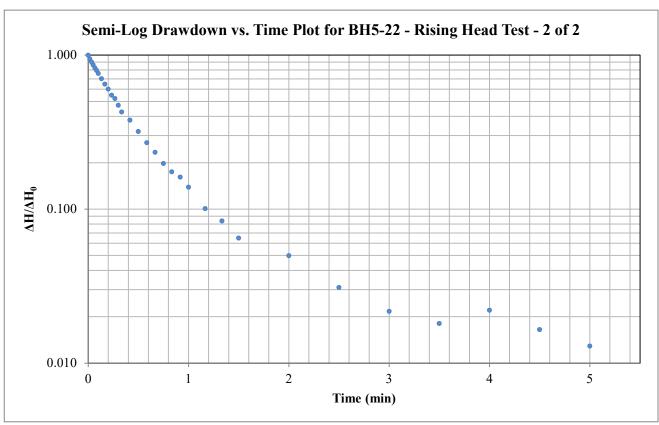
Horizontal Hydraulic Conductivity K = 1.43E-05 m/sec



#### **Hvorslev Hydraulic Conductivity Analysis**

Project: Caivan - 5993 and 6115 Flewellyn Road and 6030 and 6070 Fernbank Road

Test Location: BH5-22 Test: Rising Head - 2 of 2 Date: October 7, 2022



Hvorslev Horizontal Hydraulic Conductivity

Hvorslev Shape Factor

$$K = \frac{\pi r_c^2}{F} \frac{1}{t^*} \ln \left( \frac{\Delta H^*}{\Delta H_0} \right)$$

$$F = \frac{2\pi L}{\ln\left(\frac{2L}{D}\right)}$$

Valid for L>>D

Hvorslev Shape Factor F: 2.07207

Well Parameters:

L 1.5 m Saturated length of screen or open hole

 $\begin{array}{ccc} D & 0.03175 \text{ m} & \text{Diameter of well} \\ r_c & 0.01588 \text{ m} & \text{Radius of well} \end{array}$ 

Data Points (from plot):

t\*: 0.437 minutes  $\Delta H^*/\Delta H_0$ : 0.37

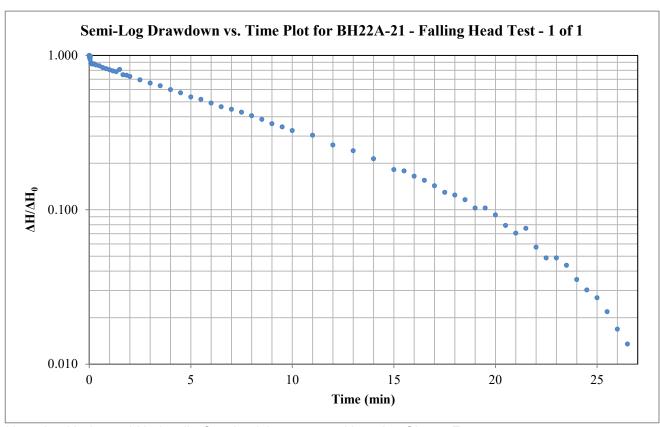
Horizontal Hydraulic Conductivity K = 1.45E-05 m/sec



#### **Hvorslev Hydraulic Conductivity Analysis**

Project: Caivan - 5993 and 6115 Flewellyn Road and 6030 and 6070 Fernbank Road

Test Location: BH22A-21 Test: Falling Head - 1 of 1 Date: October 11, 2022



Hvorslev Horizontal Hydraulic Conductivity

Hvorslev Shape Factor

$$K = \frac{\pi r_c^2}{F} \frac{1}{t^*} \ln \left( \frac{\Delta H^*}{\Delta H_0} \right)$$

$$F = \frac{2\pi L}{\ln\left(\frac{2L}{D}\right)}$$
 Va

Hvorslev Shape Factor F:

Valid for L>>D

3.59613

Well Parameters:

L 3 m Saturated length of screen or open hole

 $\begin{array}{ccc} D & 0.03175 \text{ m} & \text{Diameter of well} \\ r_c & 0.01588 \text{ m} & \text{Radius of well} \end{array}$ 

Data Points (from plot):

t\*: 8.463 minutes  $\Delta H^*/\Delta H_0$ : 0.37

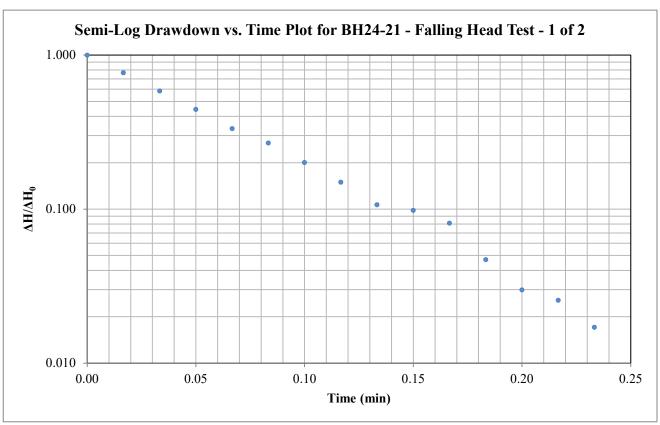
Horizontal Hydraulic Conductivity K = 4.31E-07 m/sec



#### **Hvorslev Hydraulic Conductivity Analysis**

Project: Caivan - 5993 and 6115 Flewellyn Road and 6030 and 6070 Fernbank Road

Test Location: BH24-21 Test: Falling Head - 1 of 2 Date: October 11, 2022



Hvorslev Horizontal Hydraulic Conductivity

Hvorslev Shape Factor

$$K = \frac{\pi r_c^2}{F} \frac{1}{t^*} \ln \left( \frac{\Delta H^*}{\Delta H_0} \right)$$

$$F = \frac{2\pi L}{\ln\left(\frac{2L}{D}\right)}$$

Valid for L>>D

3.59613

Hvorslev Shape Factor F:

Well Parameters:

L 3 m Saturated length of screen or open hole

 $\begin{array}{ccc} D & 0.03175 \text{ m} & \text{Diameter of well} \\ r_c & 0.01588 \text{ m} & \text{Radius of well} \end{array}$ 

Data Points (from plot):

t\*: 0.061 minutes  $\Delta H^*/\Delta H_0$ : 0.37

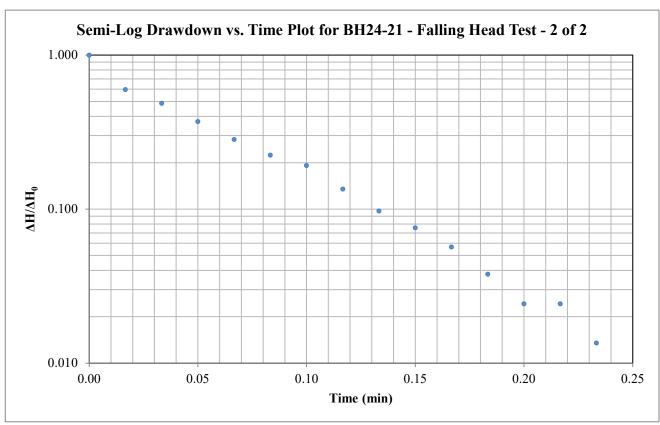
Horizontal Hydraulic Conductivity K = 5.96E-05 m/sec



#### **Hvorslev Hydraulic Conductivity Analysis**

Project: Caivan - 5993 and 6115 Flewellyn Road and 6030 and 6070 Fernbank Road

Test Location: BH24-21 Test: Falling Head - 2 of 2 Date: October 11, 2022



Hvorslev Horizontal Hydraulic Conductivity

Hvorslev Shape Factor

$$K = \frac{\pi r_c^2}{F} \frac{1}{t^*} \ln \left( \frac{\Delta H^*}{\Delta H_0} \right)$$

$$F = \frac{2\pi L}{\ln\left(\frac{2L}{D}\right)}$$

Valid for L>>D

Hvorslev Shape Factor F: 3.59613

Well Parameters:

L 3 m Saturated length of screen or open hole

 $\begin{array}{ccc} D & 0.03175 \text{ m} & \text{Diameter of well} \\ r_c & 0.01588 \text{ m} & \text{Radius of well} \end{array}$ 

Data Points (from plot):

t\*: 0.050 minutes  $\Delta H^*/\Delta H_0$ : 0.37

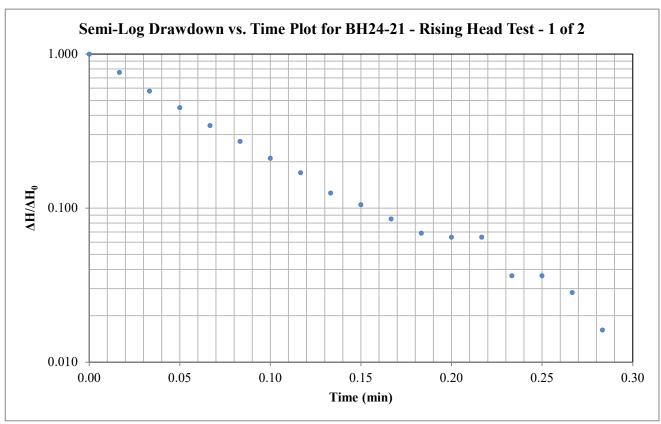
Horizontal Hydraulic Conductivity K = 7.29E-05 m/sec



#### **Hvorslev Hydraulic Conductivity Analysis**

Project: Caivan - 5993 and 6115 Flewellyn Road and 6030 and 6070 Fernbank Road

Test Location: BH24-21 Test: Rising Head - 1 of 2 Date: October 11, 2022



Hvorslev Horizontal Hydraulic Conductivity

Hvorslev Shape Factor

$$K = \frac{\pi r_c^2}{F} \frac{1}{t^*} \ln \left( \frac{\Delta H^*}{\Delta H_0} \right)$$

$$F = \frac{2\pi L}{\ln\left(\frac{2L}{D}\right)}$$

Valid for L>>D

Hvorslev Shape Factor F: 3.59613

Well Parameters:

L 3 m Saturated length of screen or open hole

 $\begin{array}{ccc} D & 0.03175 \text{ m} & \text{Diameter of well} \\ r_c & 0.01588 \text{ m} & \text{Radius of well} \end{array}$ 

Data Points (from plot):

t\*: 0.063 minutes  $\Delta H^*/\Delta H_0$ : 0.37

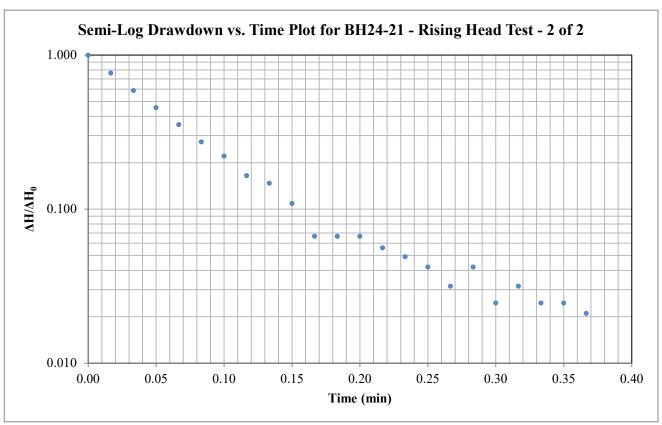
Horizontal Hydraulic Conductivity K = 5.83E-05 m/sec



#### **Hvorslev Hydraulic Conductivity Analysis**

Project: Caivan - 5993 and 6115 Flewellyn Road and 6030 and 6070 Fernbank Road

Test Location: BH24-21 Test: Rising Head - 2 of 2 Date: October 11, 2022



Hvorslev Horizontal Hydraulic Conductivity

Hvorslev Shape Factor

$$K = \frac{\pi r_c^2}{F} \frac{1}{t^*} \ln \left( \frac{\Delta H^*}{\Delta H_0} \right)$$

$$F = \frac{2\pi L}{\ln\left(\frac{2L}{D}\right)}$$

Valid for L>>D

Hvorslev Shape Factor F: 3.59613

Well Parameters:

L 3 m Saturated length of screen or open hole

 $\begin{array}{ccc} D & 0.03175 \text{ m} & \text{Diameter of well} \\ r_c & 0.01588 \text{ m} & \text{Radius of well} \end{array}$ 

Data Points (from plot):

t\*: 0.064 minutes  $\Delta H^*/\Delta H_0$ : 0.37

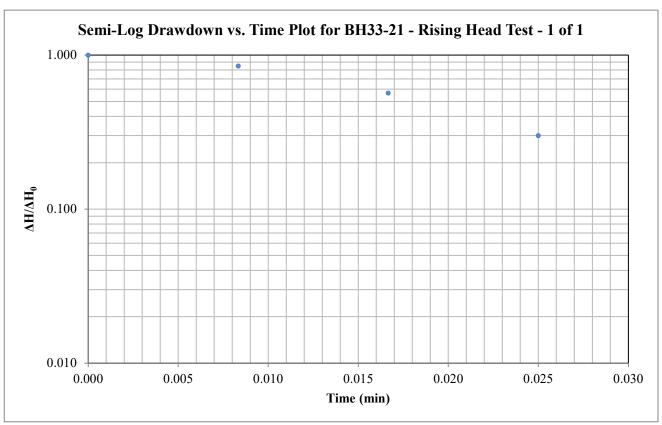
Horizontal Hydraulic Conductivity
K = 5.69E-05 m/sec



#### **Hvorslev Hydraulic Conductivity Analysis**

Project: Caivan - 5993 and 6115 Flewellyn Road and 6030 and 6070 Fernbank Road

Test Location: BH33-21 Test: Rising Head - 1 of 1 Date: October 11, 2022



Hvorslev Horizontal Hydraulic Conductivity

Hvorslev Shape Factor

$$K = \frac{\pi r_c^2}{F} \frac{1}{t^*} \ln \left( \frac{\Delta H^*}{\Delta H_0} \right)$$

$$F = \frac{2\pi L}{\ln\left(\frac{2L}{D}\right)}$$

Valid for L>>D

Hvorslev Shape Factor F: 3.59613

Well Parameters:

L 3 m Saturated length of screen or open hole

 $\begin{array}{ccc} D & 0.03175 \text{ m} & \text{Diameter of well} \\ r_c & 0.01588 \text{ m} & \text{Radius of well} \end{array}$ 

Data Points (from plot):

t\*: 0.023 minutes  $\Delta H^*/\Delta H_0$ : 0.37

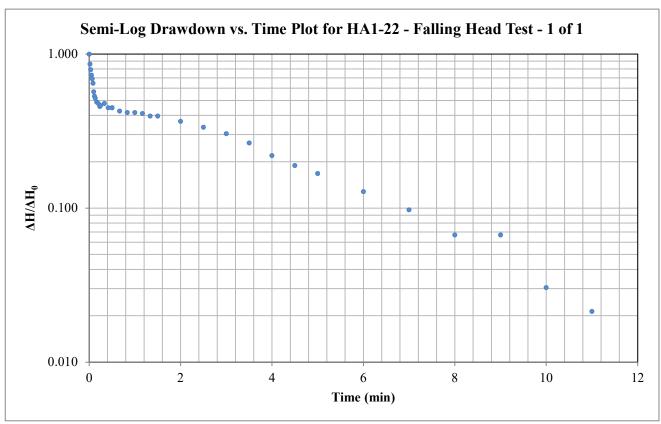
Horizontal Hydraulic Conductivity K = 1.60E-04 m/sec



#### **Hvorslev Hydraulic Conductivity Analysis**

Project: Caivan - 5993 and 6115 Flewellyn Road and 6030 and 6070 Fernbank Road

Test Location: HA1-22 Test: Falling Head - 1 of 1 Date: October 7, 2022



Hvorslev Horizontal Hydraulic Conductivity

Hvorslev Shape Factor

$$K = \frac{\pi r_c^2}{F} \frac{1}{t^*} \ln \left( \frac{\Delta H^*}{\Delta H_0} \right)$$

$$F = \frac{2\pi L}{\ln\!\left(\frac{2L}{D}\right)}$$

Valid for L>>D

Hvorslev Shape Factor F: 0.92098

Well Parameters:

L 0.4064 m Saturated length of screen or open hole

 $\begin{array}{ccc} D & 0.0508 \; m & Diameter of well \\ r_c & 0.0254 \; m & Radius of well \end{array}$ 

Data Points (from plot):

t\*: 1.695 minutes  $\Delta H^*/\Delta H_0$ : 0.37

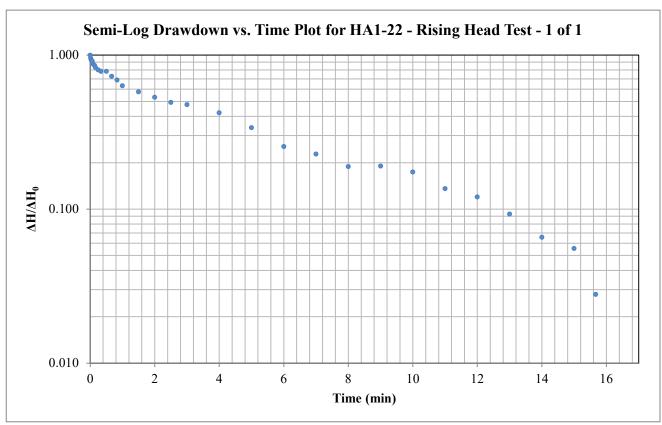
Horizontal Hydraulic Conductivity K = 2.15E-05 m/sec



#### **Hvorslev Hydraulic Conductivity Analysis**

Project: Caivan - 5993 and 6115 Flewellyn Road and 6030 and 6070 Fernbank Road

Test Location: HA1-22 Test: Rising Head - 1 of 1 Date: October 7, 2022



Hvorslev Horizontal Hydraulic Conductivity

Hvorslev Shape Factor

$$K = \frac{\pi r_c^2}{F} \frac{1}{t^*} \ln \left( \frac{\Delta H^*}{\Delta H_0} \right)$$

$$F = \frac{2\pi L}{\ln\left(\frac{2L}{D}\right)}$$

Valid for L>>D

Hvorslev Shape Factor F: 0.92098

Well Parameters:

L 0.4064 m Saturated length of screen or open hole

 $\begin{array}{ccc} D & 0.0508 \text{ m} & \text{Diameter of well} \\ r_c & 0.0254 \text{ m} & \text{Radius of well} \end{array}$ 

Data Points (from plot):

t\*: 4.164 minutes  $\Delta H^*/\Delta H_0$ : 0.37

Horizontal Hydraulic Conductivity K = 8.76E-06 m/sec





#### **APPENDIX 5**

MECP WATER WELL RECORDS

JTM 1/18 Z 41219181610 E



GROUND WATER BRANCH 斯 1959**1**5 No ONTARIO WATER
RESOURCES COMMISSION

		ess	STANK	ET Cans	year)
Casing and Screen Record				nping Test	
Cotal length of casing.  Cype of screen.  Cepth to top of screen.  Ciphical length of casing.  Ciphical length of casing.  Ciphical length of casing.  Ciphical length of casing.  Ciphical length of screen.  Ciphical length of screen.  Ciphical length of screen.  Ciphical length of casing.  Ciphical length of screen.	Test-pum Pumping Duration Water cle	levelof test pumping ear or cloudy at	g end of test	G.P.M HR ELEAR 3 G.P.M	
		with		ater Record	-
Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	No. of feet water rises	Kind of wate (fresh, salty sulphur)
FINE SAND ITEL	20	30			
Limestone	30	62	62	FLOWING	FRES
For what purpose(s) is the water to be used	dP		In diagram belo	cation of Well ow show distances ine. Indicate nort	of well from

CSS.S8

Form 5 15M-58-4149

316/40 OF 510 SI UTM 1/18 12 141219121210 E 5 R 5 0 6 6 0 N Elev. AR 0 3 3 0

Basin 25 11

County or Territorial District.



The Water-well Drillers Act, 1954 Department of Mines

GROUND WATER BRANCH / 09 MAY 28 1957 ONTARIO WATER RESOURCES COMMISSION

#### Water-Well Record

Carleton Township, Village, Town or City Saulbourn

(day)	(month)	(year)				
Pipe and Casin	g Record	· · · · · · · · · · · · · · · · · · ·		Pumping Test		
Casing diameter(s) 4"  Length(s) 25'  Type of screen		Static level	25 H			
Well Log			Water Record			
Overburden and Bedrock Record	From ft.	To ft.	Depth (s) at which water (s) found	No. of feet water rises	Kind of water (fresh, salty, or sulphur)	
Soil Gravel	0	20				
Lime Stone	20	7.8	18	58	FRESh	
For what purpose(s) is the water  **Domestic.**  Is water clear or cloudy?	·····		In diagram below	ocation of Well v show distances of		
Is well on upland, in valley, or or Drilling firm Walter J.	n hillside? Hill King			e. Indicate north	by arrow. North	
Name of Driller Walter  Address 48 K empster  Britannia Heights 9 G  Licence Number 7.3.3  I certify that the statements of fact	D. Ottaua foregoing	- Out	Wighway Ma	8/10 cor m	ile 88	
Date April 30/57 Was		ing.		The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	on O	
				CSS.58		

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The Water-well Drillers Act, 1954

Department of Mines

Basin 215 1 1

Water-Well Record

	an loto	— М	. Y711	Houll	own
County or Territorial District	o coro	Townsh	Village, Town of C Village, Town or Ci	rulle	Ont
Date completed(day)	(month)	(year)			
Pipe and Casing	Record			Pumping Test	
Casing diameter(s)  Length(s)  Type of screen  Length of screen	tien		Static level	eff.	p'h fur
Well Log				Water Record	
Overburden and Bedrock Record	From ft.	To ft.	Depth (s) at which water (s) found	No. of feet water rises	Kind of water (fresh, salty, or sulphur)
arnel	0	15	water		
A set so soh	15	75	Mouzons		
amestore 12000			St	60	fresh
			1		
For what purpose(s) is the water		11		cation of Well show distances o	f well from
Is water clear or cloudy?	•	<b>7</b>	road and lot line	e. Indicate north	
Is well on upland, in valley, or or Drilling firm	hillside?		WELL	- off	Olive -
Name of Driller	b	2	10 1 lin		1.15
Address  Licence Number.  I certify that the statements of fact	foregoing	// .		Light of	OVER
Date pril 20 Logh	Signature of Licer	nsee			

Stittsville Ont



18/4/2/7/0/3/0 1510222 4 7 8 5 0 1 1 2 6 6 0 The Ontario Water Resources Commission Act Township, Village, Town or City Date completed **Pumping Test** Casing and Screen Record ..... DIVISION. OF Inside diameter of casing.... WATER RESOURCE Test-pumping rate Total length of casing Type of screen Pumping level Duration of test pumping Length of screen ONTARIO WATE Water clear or cloudy at end of test Depth to top of screen..... RESOURCES COMM Recommended pumping rate.... Diameter of finished hole feet below ground surface with pump setting of .... Well Log **Water Record** Depth(s) at Kind of water From To Overburden and Bedrock Record which water(s) (fresh, salty, ft. found sulphur) Location of Well For what purpose(s) is the water to be used? In diagram below show distances of well from road and lot line. Indicate north by arrow. Is well on upland, in valley, or on hillside? Drilling or Boring Firm Address Licence Number Name of Driller or Borer

C 3

Form 7 5M 60-20912

(Signature of Licensed Drilling or Boring Contractor)

OWRC COPY

177	The	Ontario Water Resor	urces Commission Act	3164e
14/	<b>14/AT</b> F	R WEL	urces Commission Act	
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ter management in Ontario 1, PRIN 2, CHEC	CK X CORRECT BOX WHERE	E APPLICABLE 1 2	1510833 - 151003 10 14	y FTC   LOT 25-27
NTY OR DISTRICT	[ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [	P, BOROUGH, CITY, TOWN, VILLAGE	9	<b>₽23</b>
arx	28 47	DDRESS	10 a October	DAY 09 MCO 7 YR. 70
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		24 25	26 AAATEDIAIS (CET INSTRUCTIONS)	4
MOST			OCK MATERIALS (SEE INSTRUCTIONS)  GENERAL DESCRIPTION	DEPTH - FEET FROM TO
NERAL COLOUR COMMON M	ATERIAL	OTHER MATERIALS	- a . b . A	0 17
rown san	d	gravel	Packa	
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ey lime	some			
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WATER REC	21 511 CZ	SING & OPEN HOL	E RECORD Z SIZE(S) OF OPENING (SLOT NO.)	65 75 31-33 DIAMETER 34-38 LENGTH 39
TER FOUND KIND OF WA	ITER INSIDE	WALL THICKNESS	DEPTH — FEET  FROM TO   MATERIAL AND TYPE	
	SULPHUR 14  MINERAL		0 00/9.16	FEET
	SULPHUR 19	3 CONCRETE 4 CONCRETE	DEDTH SET AT - FEET	& SEALING RECORD
20-23 1 FRESH 3	SULPHUR 17-18	2 GALVANIZED	PROM TO 10-13 14-17	MATERIAL AND TYPE LEAD PACKER, ETC.
25-28 1 FRESH 3	MINERAL 29  SULPHUR 24-25	3 CONCRETE 4 OPEN HOLE 5 1 STEEL 26	27-30 18-21 22-25	
2 ☐ SALTY 4 ☐	MINERAL 34 80 SULPHUR	2 GALVANIZED 3 CONCRETE	26-29 30-33 80	
2 SALTY 4	MINERAL 10 PUMPING RATE	4 OPEN HOLE	LOCATION	OF WELL
PUMP 2 BAILER	0010	15-16 00 17-11		OL MPFF
1 /	25	GPM HOURS OO MINS	IN DIAGRAM BELOW SHOW DISTANCE	S OF WELL FROM ROAD AND
STATIC WATER LEVEL END OF PUMPING	WATER LEVELS D	DURING 1 PUMPING 2 RECOVERY	IN DIAGRAM BELOW SHOW DISTANCE LOT LINE: INDICATE NORTH BY ARR	S OF WELL FROM ROAD AND
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STATIC LEVEL  19-21  19-21  22-  19-21  22-  15 FLOWING, SIVE RATE  GRECOMMENDED PUMP TYPE  SHALLOW  STATUS  OF WELL  55-56  WATER USE  57  METHOD  OF  DPILLING  19-21  20- 21- 21- 21- 21- 21- 21- 21- 21- 21- 21	WATER LEVELS D  24  15 MINUTES 26-28  FEET PUMP INTAKE SET AT  PM.  RECOMMENDED PUMP PUMP ATER SUPPLY BSERVATION WELL EST HOLE COMESTIC OMESTIC OMESTIC OMESTIC OTHER  ABLE TOOL OTHER  ABLE TOOL OTARY (CONVENTIONAL) OTARY (REVERSE) OTARY (REVERSE)	DURING PUMPING  PUMPING PUMPING  PUMPING PUMPING  PEET S2-31  PEET WATER AT END OF TEST  A3-45 RECOMMENDED PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUM	DRILLERS REMARKS:  IN DIAGRAM BELOW SHOW DISTANCE INDICATE NORTH BY ARR  DRILLERS REMARKS:  DATA 58 CONTRACTOR 59	S OF WELL FROM ROAD AND OW.  9  4/10 OT 9  8  80970  63-61
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STATIC LEVEL  STATIC LEVEL  19-21  19-21  22-  15 FE  16 FLOWING, GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE  GIVE RATE	WATER LEVELS D  24  15 MINUTES 26-28  FEET PUMP INTAKE SET AT  PM.  RECOMMENDED PUMP SETTING  GPM./FT. SPECIFIC CAPACIT  ATER SUPPLY BSERVATION WELL EST HOLE COTOCK  GOMESTIC  OMESTIC  OMESTIC  OTHER  ABLE TOOL COTARY (CONVENTIONAL) COTARY (REVERSE) COTARY (AIR) LIR PERCUSSION	DURING PUMPING PUMPING PUMPING PUMPING PUMPING PEET A5 MINUTES 32-34 PEET CLEAR 2 CLOUDY A3-45 RECOMMENDED PUMPING FEET RATE O 5 PEET PUMPING ABANDONED, INSUFFICIENT SUPPLY ABANDONED, POOR QUALITY UNFINISHED OMMERCIAL IUNICIPAL UBLIC SUPPLY OOLING OR AIR CONDITIONING 9 NOT USED  6 BORING 7 DIAMOND 8 JETTING 9 DRIVING	DRILLERS REMARKS:  DATA SOURCE  DATA DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SOURCE  DATA SO	S OF WELL FROM ROAD AND OW.  9  4/10 OT 9  8  62 DATE RECEIVED 80970
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#### MINISTRY OF THE ENVIRONMENT

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The Ontario Water Resources Act RECORD WELL 15.0.03 1. PRINT ONLY IN SPACES PROVIDED 2. CHECK S CORRECT BOX WHERE APPLICABLE COUNTY OR DISTRICT 026 DATE COMPLETED YR. 76 мо. 01 7 Q YAD Ontario 455 Stittsville. BASIN CODE 303 1977 AUG 04 . 26 334 010845 LUG UT OVERBURDEN AND BEDRUCK MATERIALS (SEE INSTRUCTIONS) DEPTH GENERAL DESCRIPTION то MOST OTHER MATERIALS COMMON MATERIAL 6 0 clay arev 6 packed hardpan. stones grey 100 23 medium limestone grev 100 160 soft streaks of red limestone grey 31 SIZE(S) OF OPENING CASING & OPEN HOLE RECORD SCREEN 51 WATER RECORD MATERIAL AND TYPE KIND OF WATER FRESH 3 T SULPHUR **00** 25 STEEL 188 6106 0135 2 SALTY 2 ☐ GALVANIZED 3 ☐ CONCRETE PLUGGING & SEALING RECORD 61 3 SULPHUR TE FRESH 5/16 DEPTH SET AT - FEET Z SALTY 4 | MINERAL MATERIAL AND TYPE (CEMENT GROUT, **0**156 1 (7) STEEL FRESH 3 SULPHUR 0160 3 [] CONCRETE AN OPEN HOLE 3 SULPHUR 1 FRESH 1 STEEL
2 GALVANIZED 4 MINERAL 2 SALTY 30-33 80 3 🗌 SULPHUR 4 🗎 MINERAL 1 🗍 FRESH 3 CONCRETE 2 SALTY 3010 LOCATION OF WELL 01 15-16 00 00 30 IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW. 2 X BAILER 1 PUMPING Z | RECOVERY TES 60 MINUTES 45 MINUTES TEST 0 15 FEET 0 15 FEET 0 15 FEET ROAD IF FLOWING. GIVE RATE I 🙀 CLEAR FEET RATE 0 005 RECOMMENDED RECOMMENDED PUMP TYPE SETTING 0 25 X SHALLOW DEEP GPM./FT. SPECIFIC CAPACITY S ☐ ABANDONED, INSUFFICIENT SUPPLY

G ☐ ABANDONED, POOR QUALITY 1 🔁 WATER SUPPLY FINAL 2 OBSERVATION WELL **STATUS** TEST HOLE 7 UNFINISHED OF WELL A RECHARGE WELL COMMERCIAL 5 [] 1XT DOMESTIC 2 STOCK
3 RRIGATION 6 MUNICIPAL WATER PUBLIC SUPPLY COOLING OR AIR CONDITIONING USE () 4 | INDUSTRIAL 9 🗀 NOT USED OTHER 6 BORING CABLE TOOL METHOD 7 DIAMOND 2 ROTARY (CONVENTIONAL) # | JETTING 3 | ROTARY (REVERSE)
4 | ROTARY (AIR) OF 9 DRIVING 4 🗆 DRILLING AIR PERCUSSION DATE \$ 50376 ONLY Capital Water Supply Ltd. 1558 CONTRACTOR 490 Stittsville, Ontario LICENCE NUMBER

#### MINISTRY OF THE ENVIRONMENT The Ontario Water Resources Act 3/6/40 WELL RECOR 15003 CON. 2. CHECK S CORRECT BOX WHERE APPLICABLE AUG 04, 303 26 1977 LUG OF OVERBURDEN AND BEDRUCK MATERIALS (SEE INSTRUCTIONS) DEPTH . FEET MOST COMMON MATERIAL GENERAL COLOUR OTHER MATERIALS GENERAL DESCRIPTION FROM 30 31 32 10 14 15 41 WATER RECORD 51 **CASING & OPEN HOLE RECORD** SCREEN WALL THICKNESS INCHES KIND OF WATER MATERIAL FRESH 3 [] SOLTHON 2 GALVANIZED 3 CONCRETE 1 FRESH 3 SULPHUR 2 SALTY 4 MINERAL **PLUGGING & SEALING RECORD** 61 ■ □ OPEN HOLE 1 STEEL 3 SULPHUR FROM 2 G SALTY 3 CONCRETE OPEN HOLE FRESH 3 SULPHUR 2 SALTY 4 MINERAL 1 ☐ STEEL 1 | FRESH 3 | SULPHUR 30-33 80 3 CONCRETE LOCATION OF WELL IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW. WATER SUPPLY 5 ABANDONED, INSUFFICIENT SUPPLY FINAL 6 ABANDONED POOR QUALITY **STATUS** CON & 3/10mi > 3 TEST HOLE 7 UNFINISHED OF WELL 4 | RECHARGE WELL 6 MUNICIPAL WATER IRRIGATION INDUSTRIAL PUBLIC SUPPLY USE COOLING OR AIR CONDITIONING ☐ OTHER 9 🗆 NOT USED CABLE TOOL 6 D BORING 7 DIAMOND CABLE TOOL ROTARY (CONVENTION ROTARY (REVERSE) **METHOD** ROTARY (CONVENTIONAL) OF 8 | JETTING ☐ ROTARY (AIR) ☐ AIR PERCUSSION DRILLING 050476 OFFICE USE ONLY May REMARKS: CSS.53 FORM 7 07-091 HE ENVIRONMENT COPY

# The Ontario Water Resources Act WATER WELL RECORD

Ontario		RECT BOX WHERE APPLICABLE		18820	<u> </u>	· N	1,189
COUNTY OR DISTRICT	^ · •	TOWNSHIP, BOROUGH, CITY, TOWN, VILLA	G E	CON	BLOCK, TRACT SURVEY, ETC	Ŀ	OT 25-27
OWNER (SURNAME FIL	Carleton	ADDRESS	<u></u>			·	25
	ZONE EASTING	C/O H. Steenb			i'T'I'E', Ontar'io	27 MO02	YR. 84
21	M 10 12	17 18 24	25 21	KOA 3-60	) 31 4 9 VIII 6 1 1 U		1 1 47
· · · · · · · · · · · · · · · · · · ·	ľ	OG OF OVERBURDEN AND BED	PROCK N	MATERIALS (SEE I	NSTRUCTIONS		
GENERAL COLOUR	COMMON MATERIAL	OTHER MATERIALS		GENER	AL DESCRIPTION	FROM	TO
Brown	Clay	Hardpan	-	Pac	ked	0	3_
Gray	Limestone				ken layers	3	88
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31							
32	14 15	32	43		54 65		75 80
	TER RECORD	51 CASING & OPEN HOL	LE RECO	RD Z ISLOT	S) OF OPENING 31-33 DIA		NGTH
WATER FOUND AT - FEET	KIND OF WATER  14  15  16  17  18  18  18  18  18  18  18  18  18	INSIDE WALL DIAM MATERIAL THICKNESS INCHES INCHES	FROM	TO MATE	RIAL AND TYPE	DEPTH TO TOP OF SCREEN	41-44 30
65' '	SALTY   MINERAL	64 GALVANIZED 188	n l	19			FEET
2 [	FRESH 3 SULPHUR 19  SALTY 4 MINERAL	4 DPEN HOLE		01	PLUGGING & SEA	(CEMENI	
20-23 1	FRESH 3 SULPHUR 24 SALTY 4 MINERAL	6 GALVANIZED 3 CONCRETE	19	70 FROM	10 MATERIAL A	NO TYPE LEAD PACE	
i —	FRESH 3 SULPHUR 29 SALTY 4 MINERAL	24-25 1 STEEL 26		27-30	-21 22-25		
	34 81 FRESH 3 SULPHUR SALTY 4 MINERAL	GALVANIZED  GALVANIZED  GONCRETE  GOPEN HOLE		26-	29 30-33 80		
PUMPING TEST MET					OCATION OF WE		
-	2 BAILER WATER LEVEL 25	GPMHOURS MI	INS	······································	OW SHOW DISTANCES OF WEL		n
STATIC LEVEL	END OF WATER L	T PUMPING  Z RECOVERY  30 MINUTES   45 MINUTES   60 MINUTES	5		ICATE NORTH BY ARROW.	E I KOM KOAD AN	
15 FEET	26-2	28 29-31 32-34 35	-37	. \		1 1	i
IF FLOWING.	38-41 PUMP INTAKE		42	F	Corners Subdivis		
RECOMMENDED PUR	GPM RECOMMENDED PUMP		-49		jorners Subdivis	sion	_
SHALLOW 50-53	DEEP SETTING	50 FEET RATE 5 G	РМ				, 3
FINAL	1 DE WATER SUPPLY	5 ABANDONED, INSUFFICIENT SUPPL	Y	100	· \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		7
STATUS OF WELL	3 TEST HOLE 4 RECHARGE WELL	LL & ABANDONED POOR QUALITY 7 UNFINISHED		1/07#0-			
	DOMESTIC	5 COMMERCIAL		1_60T#25			<b>5</b>
WATER USE	2 STOCK 3 ERRIGATION 4 DINDUSTRIAL	<ul> <li>MUNICIPAL</li> <li>PUBLIC SUPPLY</li> <li>COOLING OR AIR CONDITIONING</li> </ul>					!
002	C OTHER	9 D NOT USED		Crawfo	rd Road.		:
METHOD	CABLE TOOL 2 CABLE TOOL 2 CONVENT	6 D BORING TIONAL) 7 DIAMOND					
OF DRILLING	3   ROTARY (REVERSE 4   ROTARY (AIR) 5   AIR PERCUSSION	JETTING DRIVING					
NAME OF WELL (	S AIR PERCUSSION	LICENCE NUMBER		ERS REMARKS	ONTRACTOR 59-62 THE CELV		- 63-68 80
Canit	al Water Sup		_   K	OURCE	1538 12	U384	
Box 49	<u>-</u>	lle, Ont. KOA 3GO	SE 0	ATE OF INSPECTION	INSPECTOR	•	
NAME OF DRILLE	ER OR BORER	LICENCE NUMBER	SE US	EMARKS			· · · · · · · · · · · · · · · · · · ·
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The Ontario Water Resources Act Ministry **VATER WE** RECOR of the Environment 1519301 1. PRINT ONLY IN SPACES PROVIDED 2. CHECK CORRECT BOX WHERE APPLICABLE TOWNSHIP LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS) DEPTH - FEET GENERAL DESCRIPTION MOST COMMON MATERIAL OTHER MATERIALS GENERAL COLOUR ס 05 meston 31 32 CASING & OPEN HOLE RECORD SCREEN 51 41 WATER RECORD DEPT WATER FOUND AT - FEET KIND OF WATER MATERIAL DEPTH TO TOP OF SCREEN 41-44 FROM то 1 FRESH 3 SULPHUR
2 SALTY 4 MINERAL 13 16 50 22 2 GALVANIZED 188 CONCRETE
OPEN HOLE FRESH 3 SULPHUR
SALTY 4 MINERAL PLUGGING & SEALING RECORD 61 100 AT - FEET STEEL FRESH 3 SULPHUR SALTY 4 MINERAL FROM ☐ GALVANIZED GALVANIZE
CONCRETE o5 groutes † | FRESH 3 | SULPHUR
2 | SALTY 4 | MINERAL OPEN HOLE ☐ STEEL CALVANIZED FRESH 3 🗍 SULPHUR CONCRETE SALTY 4 [] MINERAL OPEN HOLE LOCATION OF WELL UMPING TEST METH 71 15-16 IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW. PUMP ☐ BAILER PUMPING VATER LEVEL END OF PUMPING 22-24 WATER LEVELS DURING 30 MINUTES 60 32.34 60; 60 60 2 CLOUDY t 🗆 CLEAR RECOMMENDED PUMP SETTING 60 DEEP ☐ SHALLOW ABANDONED, INSUFFICIENT SUPPLY WATER SUPPLY FINAL OBSERVATION WELL T ABANDONED POOR QUALITY **STATUS** 7 UNFINISHED TEST HOLE OF WELL ☐ RECHARGE WELL Folin 5 COMMERCIAL
6 MUNICIPAL DOMESTIC ☐ STOCK WATER ☐ IRRIGATION
☐ INDUSTRIAL ☐ PUBLIC SUPPLY COOLING OR AIR CONDITIONING

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ROTARY (CO **METHOD** ROTARY (CONVENTIONAL)
ROTARY (REVERSE) 7 DIAMOND \_ JETTING OF 9 DRIVING ROTARY (AIR) **DRILLING** AIR PERCUSSIO DRILLERS REMARKS 25 3644 ONIC CONTRACTOR DATE OF INSPECTION

OFFICE USE

REMARKS

WDE

FORM NO. 0506-4-77 FORM 7

SIGNATURE OF



The Ontario Water Resources Act

### WATER WELL RECORD

Ontario	1. PRINT ONLY IN S	PACES PROVIDED  ECT BOX WHERE APPLICABLE	11	1	52258	35 🗒	5,0,0	3		22 23 24
COUNTY OR DISTRICT		TOWNSHIP, BOROUGH, C	ITY, TOWN, VILLAGE		,, <u>, , , , , , , , , , , , , , , , , , </u>	CON BLOCK	C TRACT, SURV	EY. ETC	L	OT 25-27
Ottorn Co	rictor	Go	ulbourn			KC		DATE COMP	LETED 4	1-53
		O	Fernbank	Rd.	Box 41	Stittsv	ille _	DAY 05	мо <del>07</del> _	YR <b>88</b>
1 2	M 10 12	1 1		25	<u></u>	30 31				1 1 47
	LC	G OF OVERBURD	EN AND BEDF	госк	MATERIAL	S (SEE INSTRU	ICTIONS)		DEPTH	FEET
GENERAL COLOUR	MOST COMMON MATERIAL	OTHER I	MATERIALS			GENERAL DE	SCRIPTION		FROM	то
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41 WA	TER RECORD	51 CASING	& OPEN HOL			SIZE(S) OF (SLOT NO.)	OPENING	31-33 DIAME		ĺ
WATER FOUND AT - FEET	KIND OF WATER	INSIDE DIAM MATERIAL INCHES	THICKNESS INCHES	FROM	TH - FEET	S MATERIAL	AND TYPE		DEPTH TO TOP OF SCREEN	41-44 30
	FRESH 3 SULPHUR  SALTY 4 MINERALS 6 GAS	6 1/42 GALVANIZE	. 188	0	21	S				FEET
118	FRESH 3 DSULPHUR 19 4 DMINERALS 5 SALTY 6 DGAS	3□ CONCRETE 4□ OPEN HOLI 5□ PLASTIC	E		20-23	DEPTH SET A			LING RECO	ORD ENT GROUT
20-23 1	FRESH 3 DSULPHUR 24 SALTY 6 GAS	17-10 1 STEEL 2 GALVANIZE 6 1/83 CONCRETE	:D	21		FROM 10-13	TO 14-17	MATERIAL AN	D TYPE LEAD P	ACKER, ETC )
25-24 1	FRESH 3 DSULPHUR ZS	5 □ PLASTIC	E 26		27-30	18-21	22-25			
	SALTY 6 GAS  FRESH 3 SULPHUR 34  MINERALS	2 GALVANIZI 3 CONCRETE 4 DOPEN HOL	:   1			26-29	30-33	10		
PUMPING TEST M	☐ SALTY 6 ☐ GAS	5 PLASTIC	OF PUMPING	7 [		100	ATION	OF WEL		
71	2 D BAILER	6 GPM	15-16 13	-18 NS		AGRAM BELOW S				A N D
STATIC	PUMPING		PUMPING RECOVERY		LOT L		TE NORTH BY			
TEST	26	-26 19-31	32-34 3	5 - 3 7			0			Stanleys Corners
	25 75 FEET 75 F	EET 75 FEET 79	5 FEET 75 F	42		<u>( óm</u>	C 4		$\longrightarrow$	Corner
U IF FLOWING GIVE RATE  RECOMMENDED F		75 FEET 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		) Y				· / Kn	7.	
SHALL	OW DEEP PUMP SETTING	100EET RATE	5 9	.РМ						
	54	- C ARANDONES	INSUFFICIENT SUPPL	-			15	(1011	<b>1</b>	
FINAL STATUS	1 W WATER SUPPLY 2 OBSERVATION W 3 TEST HOLE					c 0	0 10	, ,0	Č	
OF WELL	4   RECHARGE WELL	9 DEWATERING							$\mathcal{A}$	
WATER	DOMESTIC  DOMESTIC  REGISTROSH  REGISTROSH	6 MUNICIPAL 7 PUBLIC SUPPLY							$\mathcal{A}$	
USE	4 ☐ INDUSTRIAL ☐ OTHER	■ COOLING OR AIR     □ □	CONDITIONING NOT USED				•			
AASTUOS	57   CABLE TOOL	• □ BOR		-					'1	
METHOD OF	3   ROTARY (REVER		ING						38	203
CONSTRUCT	TION 4 THE ROTARY (AIR)			_] [	DRILLERS REMAR	KS				
1 1	LL CONTRACTOR		WELL CONTRACTO	R'S	DATA	SA CONT	55E	SEI	°0 1 19	88
ADDRESS	tal Water Suppl	_	1558_		SOURCE OF INSP	PECTION	INSPECTO			
BOX 4	490 Stittsvill	e, Ontario K	OA 3GO WELL TECHNICIA LICENCE NUMBER		S REMARKS		,			
S S M	iller of teghnician/contractor	SUBMISSION D		<u></u>	OFFICE					
10	Knihwa	K J DAY OS	мо. <u>С7</u> ук.	(X) -	ŏ				-OPM NO. 0500	(11/86) FORM 9
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# The Ontario Water Resources Act WATER WELL RECORD

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		OG OF OVERBURDEN			GENERAL DESCRIPTION		DEPTH	FEET
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31   1   32	<u>.                                      </u>	<u>, , , , , , , , , , , , , , , , , , , </u>				سيا ليا	لللا	
2 10	TER RECORD	51 CASING &	OPEN HOLE P	ECORD	SIZE(S) OF OPENING	31-33 DIAMETER	34-38	LENGTH 3
ATER FOUND	KIND OF WATER	INSIDE MATERIAL INCHES	WALL C THICKNESS INCHES FRO		MATERIAL AND TYPE	0	EPTH TO TOP F SCREEN	41-44
2	☐ FRESH 3 ☐ SULPHUR 14 ☐ SALTY 4 ☐ MINERALS 6 ☐ GAS	6 174 1 STEEL 2 GALVANIZED	12 .188	0 24"	N T			FEET
	FRESH 3 DSULPHUR	3 CONCRETE 4 OPEN HOLE 5 PLASTIC				G & SEALII		
128 _	FRESH 3 SULPHUR 24	17-18   STEEL	19	20-23	DEPTH SET AT - FEET FROM 10	MATERIAL AND T	YPE LEAD F	ENT GROUT ACKER, ETC )
2	SALTY 4 MINERALS 6 GAS  FRESH 3 SULPHUR 29	6 1/8 CONCRETE		24 135	Brouted 14-17	Cemen	it (3	3)
2	SALTY 6 GAS	1 DSTEEL 2 DGALVANIZED	26	27-30	18-21 22-25 26-29 30-33 80			
	FRESH 3 SULPHUR 34 SALTY 6 GAS	4 DOPEN HOLE 5 DPLASTIC						
71 PUMPING TEST N			IS-16 17-18		LOCATION	OF WELL		
1 PUMP	2 BAILER WATER LEVEL 25	10 GPM 1	PUMPING	IN DIAGI	RAM BELOW SHOW DISTANCE INDICATE NORTH BY A	ES OF WELL FI	ROM ROAD	AN D
LEVEL 19-	PUMPING 21 22-24 15 MINUT	ES 30 MINUTES 45 MINUT	1					
置 20	EET 80FEET 50	<b>70 10 10 10 10 10 10 10 1</b>			Shea	Koa	<u>a</u>	<del></del>
IF FLOWING. GIVE RATE  RECOMMENDED	38-41 PUMP INTA	. 0 015	ND OF TEST 42					
RECOMMENDED	PUMP	DED 43-45 RECOMMEND	ED 46-49	1 2				
SHALL	OW DEEP SETTING	100EET RATE	<b>5</b> брм			1		
FINAL	54 1 WATER SUPPLY	S ABANDONED. IN		3		1296"	)	
STATUS	2 OBSERVATION	WELL 6 ABANDONED PO 7 UNFINISHED	OOR QUALITY			J.		
OF WELL	4 ☐ RECHARGE WEL	DEWATERING  5 COMMERCIAL		3	42'	ЭX		
WATER	2 STOCK 3 IRRIGATION	6 MUNICIPAL 7 PUBLIC SUPPLY		le le				
USE	4   INDUSTRIAL   OTHER		NOT USED					
METHO	57 1 CABLE TOOL	€ □ BORIN						
METHO	3 ROTARY (REVE	RSE) . DETTIM	1G				10	015
CONSTRUC	S AIR PERCUSSIO	_		DRILLERS REMARKS			10	
	LL CONTRACTOR	L	ELL CONTRACTOR'S ICENCE NUMBER	DATA	5. CONTRACTOR 5.3.	NOV	19 1	391
ADDRESS	al Water Supply		1558	DATE OF INSPEC	TION INSPECTOR			
Box 49	Stittsville	ontario K2S	1A6 VELL TECHNICIAN'S LICENCE NUMBER	S REMARKS				<u></u> .
J. Mox			т0096	OFFICE				
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# The Ontario Water Resources Act WATER WELL RECORD

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COUNTY OR DISTRICT		TOWNSHIP BOROUGH LITY.			CON. BLG	Con 9	ETC		25
		Page	un K	1.1 Xca	lona	1	DAY Q3		<u>93</u>
		fari	RC RC	ELEVATION	MILMA	27751	"	111 	IV 47
21 M 10		OF OVERBURDEN	AND BEDRO	CK MATERIAL	LS (SEE INST	RUCTIONS)			
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31					بالللا			<u>.     .   .  </u>	
32	·	51 CASING &	OPEN HOLE	BECORD	SIZE(S)	OF OPENING	31-33 DIAMET	ER 34-38	75 80 LENGTH 39-40
	IND OF WATER	INSIDE MATERIAL	WALL	DEPTH - FEET		AL AND TYPE		INCHES DEPTH TO TOP OF SCREEN	41-44 30
	ESH 3 SULPHUR	10-11 1 CISTEEL 2 GALVANIZED	2	13.16	S				FEET
15-18 1	ESH 3 DSULPHUR	07   3   CONCRETE 4   OPEN HOLE 5   PLASTIC	188	92	61 DEPTH SE	PLUGGIN	MATERIAL AND	(CE	MENT GROUT
20-23 1		17-18  1	0	22	F ROM	3 2 14-17		LEAD	PACKER, ETC 1
25-28 1		5   PLASTIC   2   24-25   1   STEEL   2   GALVANIZED		27-30	11-0		amen	gua	
30-33 1	RESH 3 SULPHUR 34 BO	3 CONCRETE 4 COPEN HOLE 5 PLASTIC			26-2	9 30-33 60			
71 PUNPING TEST METHOD	$\sim$ 1 $\sim$ 2		-16 🔥 17-1		L	OCATION	OF WEL	L.	
STATIC W	ATER LEVEL 25	1	PUMPING RECOVERY	IN D	IAGRAM BELO LINE INDI	W SHOW DISTANC CATE NORTH BY	CES OF WELL ARROW.	FROM ROAD	AND
TEST J	22-24 15 MINUTES 26-28	30 MINUTES 45 MINUTE	5 60 MINUTES 2-34 35-3	1 1					$\int_{\mathcal{L}}$
S IF FLOWING. GIVE RATE	FEET FEET 38-41 PUMP INTAKE SE	T AT WATER AT EN		7					<b>√V</b> .
IF FLOWING. GIVE RATE  RECOMMENDED PUMP T	GPM  YPE RECOMMENDED PUMP	FEET 1 CLEA  43-45 RECOMMENDE  PUMPING	R 2 CLOUD	<b>⊸i</b> I					
SHALLOW 4	DEEP SETTING	O FEET RATE	/ O GP	<u> </u>					Ne.
FINAL	1 WATER SUPPLY 2 OBSERVATION WELL	5 ABANDONED, INS		7		7=	<del>-</del>		Rd
STATUS OF WELL	3 TEST HOLE 4 RECHARGE WELL	7 UNFINISHED  DEWATERING		_		- 3,0	tml	.,	_
55.56	2 STOCK	5 COMMERCIAL 6 MUNICIPAL			37 m	<u> </u>		A	
WATER USE	3   IRRIGATION 4   INDUSTRIAL   OTHER	7 PUBLIC SUPPLY  1 COOLING OR AIR COM 9 N	IDITIONING OT USED			Flewell	yn Rd	,	
57	CABLE TOOL	■ □ BORING		1					
METHOD OF CONSTRUCTION	2   ROTARY (CONVENTI 3   ROTARY (REVERSE) 4   ROTARY (AIR)	9 ☐ DETTING	; ;	Test	arks Wel	1 N. Q		7	76769
	5 AIR PERCUSSION	DIGGIN	G OTHER	ES DATA	58 C	ONTRACTOR 59	62 DATE RECEIVE		63-68 80
I WA (YM	ains Well L	Irilling 12	36 44°	SOURCE DATE OF INS		3644 INSPECTOR	SEP	1 0 19	393
ONTRACTOR NAME OF WELL	326 Rect	word Or	ELL TECHNICIAN	S REMARKS					
NAME OF WELL		SUBMISSION DATE	-5564	OFFICE					
SIGNATURE OF TE	CHNICIAN/CONTRACTOR	DAY 23 M	<u>. 8 9</u>	3 8					

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41 WATER RECORD	<u>[[]</u>	CASING & OPEN HO	OLE REC	ORD		
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## The Ontario Water Resources Act WATER WELL RECORD

Ontario  1. PRINT ONLY IN S 2. CHECK  CORRI	PACES PROVIDED  ECT BOX WHERE APPLICABLE	1527414 NUNICIPAL E	.an
COUNTY OF DISTRICT	TOWNSHIP, BOROUGH CITY, TOWN VILLAGE	CON . BLOCK TRACT. SURVEY, ETC	25-27 25-27
	Essembly Scarlow	anish MIM 2M5 DAY	OMPLETED 49-53 93
	NG RC.	ELEVATION RC BASIN CODE II	"" "
LO	G OF OVERBURDEN AND BEDRO	CK MATERIALS (SEE INSTRUCTIONS)	.,,
GENERAL COLOUR COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH FEET FROM TO
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gray sandy loo	n stone		0 19
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<u> </u>			·
31			
(41) WATER RECORD	51 CASING & OPEN HOLE R	RECORD SIZE(S) OF OPENING 31-33 D	S 75 80 IAMETER 34-38 LENGTH 39-40
WATER FOUND KIND OF WATER	INSIDE MATERIAL THICKNESS INCHES FRU	RECORD  DEPTH - FEET  M  TO  MATERIAL AND TYPE	1NCHES FEET    DEPTH TO TOP
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/ 15-18 1 FRESH 3 SULPHUR 19 2 SALTY 6 GAS	4 OPEN HOLE //OO	) 25 61 PLUGGING & SE	AND TYPE (CEMENT GROUT
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OF WELL 4   RECHARGE WELL	7 UNFINISHED DEWATERING	$\uparrow$	Pok.
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OF CONSTRUCTION GROTARY (REVERSE)  S AT AIR PERCUSSION	DIGGING OTHER	Test Well No 1	76768
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MINISTRY OF THE ENVIRONM			FORM	NO. 0508 (11/86) FORM 9

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Capital ADDRESS BOX 490 NAME OF WE S. Mill SIGNATURE	Stittsville,  Stittsville,  ELL TECHNICIAN  PEL TECHNICIAN  PER J. MOORE  FECHNICIAN/CONTRACTOR  WALL  OF THE ENVIRON	Ontario K2S 1A6  WELL  TOO  SUBMISSION DATE  DAY 24 MO.	TECHNICIAN'S 7/TÖÖ96	DATE OF INSPEC	155	<b>O</b>	R 1 3 19	

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	R FOUND - FEET	KIND OF WATER  FRESH 3 DSULPHUR	DIAM MATERIAL THICKNESS	υ <b>м</b> το <b>Κ</b> Ο	MATERIAL AND TYPE	DEPTH TO TOP 41-4 OF SCREEN	44 30
	ลา   '□	SALTY 4 MINERALS 6 GAS	6 1 4 2 GALVANIZED .188	0 22.5			EET
١,	57 EQ 0	FRESH 3 USULPHUR 4 MINERALS SALTY 6 GAS	4 OPEN HOLE 5 PLASTIC		OLDIN SET AT . FEFT	AND TYPE ICEMENT GROUT	
	1.17	FRESH 4 DSULPHUR SALTY 6 DGAS	1 STEEL 2 GALVANIZED 3 GONCPETE	2.5 63	FROM TO 10-13 14-17	LEAD PACKER, ETC	TC )
	25-28 1 🗆	FRESH 3 SULPHUR 29	6 4 MOPEN HOLE 5 UPLASTIC  Z4-25 1 STEEL	27-30	21 0 Grout	ed Cement (10)	)
	30-33 1 🗆	FRESH 3 DSULPHUR 34	2 GALVANIZED 3 GONCRETE 4 GOPEN HOLE		26-29 30-33 80		
		SALTY 6 LIGAS	5 PLASTIC				
71	PUMPING TEST MET		20 GPM 1 15-16 17-18 MINS		LOCATION OF W		
	STATIC LEVEL	WATER LEVEL 25 END OF WATER PUMPING	1 X PUMPING 2 DIRECOVERY	A LOT LINE	M BELOW SHOW DISTANCES OF WINDICATE NORTH BY ARROW.	ELL FROM ROAD AND	
TEST	19-21	22-24 15 MINUTES 26-	28 29-31 32-34 35-37	R -	Fernbank Road		
	2 FEET IF FLOWING. GIVE RATE	20 FEET 20FF					-
PUMPING	RECOMMENDED PUT	GPM	FEET 1 □ CLEAR 2 M CLOUDY  D 43-45 RECOMMENDED 46-49				
	☐ SHALLOW	PUMP	PUMPING 5 GPM				
	0-53					P	
	FINAL STATUS	1 SW WATER SUPPLY 2 OBSERVATION WE			1 Prop	sed you	
	OF WELL	3 TEST HOLE 4 RECHARGE WELL	7 UNFINISHED DEWATERING		* 10	, *5	
		DOMESTIC 2 STOCK	S COMMERCIAL D MUNICIPAL			Sh	
	WATER USE	3   IRRIGATION 4   INDUSTRIAL	7 D PUBLIC SUPPLY 8 COOLING OR AIR CONDITIONING				
		OTHER	9 NOT USED				
	METHOD OF	CABLE TOOL	NTIONAL) / [] DIAMOND		Flewellyn Road		
СО		ON GROTARY (REVERS  TO ROTARY (AIR)  TO ROTARY (AIR)  TO ROTARY (AIR)	9   DRIVING  0-22.5   DIGGING   OTHER	DRILLERS REMARKS		14223	37
	NAME OF WELL		WELL CONTRACTOR'S	DATA	SE CONTRACTOR SEED DATE REC		3-68 80
OR		Water Supply	Ltd. 1558	DATE OF INSPECTION		PR 1 3 1994	
CONTRACTOR			ville, Ontario K2S 1A6	S			
NTR,			Well technician's LICENCE NUMBER TOO97/TOO96				
	SIGNATURE OF	n	SUBMISSION DATE	I E			
	HAGA	OF THE ENVIRON	DAY 14 MO 2 YR.94	0		FORM NO. 0506 (11/86) I	FORM

inistry of the Environment The Ontario Water Resources Act

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COUNTY OR DISTRICT	2. eneck is com	TOWNSHIP, BOROUGH, CITY,			CON . BLOCK, TRACT, SURVEY	ETC L	or 25-27 24
		Go	oulbourn	<u> </u>	9		8-53
			eson Bld. ea	st Miss	sissauga Ontario	DAY 26 MO 3	<u>vr. 94</u>
1 2	M 10 12	<u> </u>	24 25	26	30 31		
	LC	G OF OVERBURDEN	AND BEDROCK	MATERIAL	S (SEE INSTRUCTIONS)		
GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATI	ERIALS		GENERAL DESCRIPTION	DEPTH FROM	TO
Brown	Sand	Silt and	Stones		Wet	0	8_
Gray	Sand	* '	Boulders		Wet	8	17
Gray	Hardpan	Boulders			Packed	17	20
Gray	Limestone	Black La	yers		Medium HArd	20	113
	,						
			- A - A - C				
			· · · · · · · · · · · · · · · · · · ·				
31	سا ليليليا	سيا ليليليا	با لىلىلىيا ل		ببلبلتيبا لبب	علىلىنا ب	<u> </u>
32	14 15				54	65 31-33 DIAMETER 34-38	75 80 LENGTH 39-40
	TER RECORD		OPEN HOLE REC	CORD	SIZE(S) OF OPENING	INCHES	FEET
WATER FOUND AT - FEET	KIND OF WATER	INSIDE DIAM MATERIAL INCHES	THICKNESS FROM	TO	MATERIAL AND TYPE	DEPTH TO TOP OF SCREEN	41-44 30
	SALTY 4   MINERALS   6   GAS	6 1/4 1 STEEL 2 GALVANIZED 3 CONCRETE	.188 0	24			FEET
1 2 2	FRESH 3 SULPHUR 4 MINERALS SALTY 6 GAS	4 ☐ OPEN HOLE 5 ☐ PLASTIC		20-23	DEPTH SET AT - FEFT	3 & SEALING RECO	NT GROUT.
50-53 1TA	FRESH 4 SULPHUR 24  SALTY 6 GAS	1 □STEEL 2 □ GALVANIZED 3 □ CONCRETE	24		FROM TO M		ACKER, ETC )
25-28 1	FRESH 3 SULPHUR 29	6 4 X OPEN HOLE 5 PLASTIC 24-25 26	24	113		routed Cement	(7)
	SALTY 6 GAS  FRESH 3 SULPHUR 34 C	1   STEEL 2   GALVANIZED 3   CONCRETE 4   OPEN HOLE			26-29 30-33 80		
2 (	SALTY 6 GAS	5 DPLASTIC					
71 PUMPING TEST ME	THOD 10 PUMPING RAT	1 1-14 DURATION OF PI	6 17-18		LOCATION O	F WELL	
STATIC LEVEL	WATER LEVEL 25 END OF WATER	1 []	PUMPING RECOVERY	IN DIA	GRAM BELOW SHOW DISTANCE: INE INDICATE NORTH BY AR		ND
E B B B B B B B B B B B B B B B B B B B	PUMPING 22-24 15 MINUTES 26-2	30 MINUTES 45 MINUTES	60 MINUTES		Fernbank R	9	
	T FEET FE		FEET FEET		Ĺ		
U IF FLOWING. GIVE RATE  RECOMMENDED PL	GPM	FERT	2 CLOUDY				
RECOMMENDED PL	JMP TYPE RECOMMENDE PUMP W DEEP SETTING	D 43-45 RECOMMENDED PUMPING FEET RATE	46-49 GPM				
\$0-53						)	De la
FINAL	1 WATER SUPPLY 2 OBSERVATION WE	5 ABANDONED, INSUI				}	Shea Rd
STATUS OF WELL	3 TEST HOLE 4 RECHARGE WELL	7 UNFINISHED	- GONELIVE			<b>V</b>	4
	S-S6 1 DOMESTIC	5 COMMERCIAL				7 Test	0,5
WATER USE	2 STOCK 3 IRRIGATION 4 INDUSTRIAL		ITIONING			Test well	
USE	OTHER	9 □ NO.			Flewellyn Ro		
METHOD	1 GABLE TOOL 2 ROTARY (CONVEN	6 BORING					
OF CONSTRUCTI	3   ROTARY (REVERS					1 /	2255
	5 AIR PERCUSSION	DIGGING		DRILLERS REMARK			
NAME OF WELL		LICE	CONTRACTOR'S NCE NUMBER	DATA SOURCE DATE OF INSPE	1 5 5 8	MAY 24 199	4
4 5	l Water Supply		1 1		CTION		
P.O. BO	OX 490 Stittsv		L TECHNICIAN'S	N REMARKS			
J. MOOT	CO		096	OFFICE			
	rand		3 ,94	6			
	OF THE ENVIRON	MENT COPY				FORM NO. 0506 (	[11/86] FORM 9



#### The Ontario Water Resources Act

#### WATER WELL RECORD

	SPACES PROVIDED RECT BOX WHERE APPLICABLE	11	15280	)69	NUNICIP.   1,50,03	CON.	1 10.9
COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY,			CON .	BLOCK TRACT, SURVEY, I	15 ETC	22 23 74 LOT 25-27
	Coulbour	m	·		9	DATE COMPLETED	24
	Mathes	son Blvd.	east Missi	issauga		00	6 <sub>vr</sub> 94
1 2 M 10 12	17 M7	L L	ELEVATION	) [	BASIN CODE	" "	
	OG OF OVERBURDEN A	AND BEDRO	) DCK MATERIA	LS ISEE IN	ISTRUCTIONS		47
GENERAL COLOUR MOST COMMON MATERIAL	OTHER MATE	RIALS		GENERA	IL DESCRIPTION	DE FROM	PTH - FEET
Brown Sandy Loon							5
Brown Sand							5 12
Gray Sand & Gra	vel & Boulders					12	
Gray Limestone						1	
		-					
				<del> </del>	•		
31				ا لىلىـ		1	لا لىلى
41 WATER RECORD	51 CASING & OF	<u> </u>	<u></u>	54 	OF OPENING 31-3	65 3 DIAMETER 34-38	75 80
WATER FOUND AT - FEET KIND OF WATER	INSIDE	-	DEPTH - FEET	Z (SLOT A	NO )	INCHES	
10-13 1 FRESH 3 SULPHUR 2 SALTY 4 MINERALS	INCHES	INCHES FR	13-16	MATERI	IAL AND TYPE	DEPTH TO TO OF SCREEN	1.
15-18 1 FRESH 3 SULPHUR	3 □ CONCRETE 4 □ OPEN HOLE	.188	0 22	61	PLUGGING	SEALING REC	FEET
2 SALTY 6 MINERALS 20-23 1 FRESH 3 CSULPHUR 24	5 □ PLASTIC  17-18 1 □ STEEL 19		20-23	DEPTH SE	T AT - FEET MATE	COLAL AND TYPE (C)	EMENT GROUT
Z SALTY 6 GAS	2 GALVANIZED 3 GONCRETE 4 OPEN HOLE 5 DPLASTIC		22 90	FROM			PACKER ETC )
1   FRESH 3   SULPHUR 4   MINERALS   SALTY 6   GAS	24-25 26		27-30	18-21		uted Cement	. (13)
30-33     FRESH 3   SULPHUR 34   10   4   MINERALS   2   SALTY 6   GAS	3 □ CONCRETE 4 □ OPEN HOLE 5 □ PLASTIC			26-29	30-33 80		
71 PUMPING TEST METHOD 10 PUMPING RATE		4		LC	CATION OF	WELL	
1 PUMP 2 BAILER STATIC WATER LEVEL 25	GPM		IN DIA	GRAM BELOV	N SHOW DISTANCES OF	F WELL FROM ROAD	AND
D PUMPING 22-24 IS MINUTES	30 MINUTES   45 MINUTES	COVERY 60 MINUTES	LOT LI		CATE NORTH BY ARROV		
	T FEET FEET	35-37 FEET			welly Ro	<u> </u>	
FEET FEET FEET  IF FLOWING 38-41  GIVE RATE  GPM  RECOMMENDED PUMP TYPE  RECOMMENDED PUMP PUMP  PUMP	1 11 (1548						
RECOMMENDED PUMP TYPE RECOMMENDED PUMP	43-45 RECOMMENDED PUMPING	45-49					
SHALLOW DEEP SETTING	FEET RATE	GPM					
FINAL 1 WATER SUPPLY	5 ABANDONED, INSUFFIC			×	Test Well	<b>\</b>	. ]
STATUS  OF WELL  2 OBSERVATION WELL  3 TEST HOLE  4 RECHARGE WELL	L 6 ABANDONED POOR QU 7 UNFINISHED DEWATERING	ALITY			*4		
55-56 DOMESTIC	5 COMMERCIAL						\
WATER  2	MUNICIPAL PUBLIC SUPPLY COOLING OR AIR CONDITIO						<b>D</b>
O OTHER	9 NOT US						1
METHOD 2 ROTARY (CONVENTI	-90 6 □ BORING						_
OF 3   ROTARY (REVERSE) CONSTRUCTION 4   ROTARY (AIR)	☐ JETTING 9 ☐ DRIVING	1	F	enbo	ink	A =	0044
5 AIR PERCUSSION (			DRILLERS REMARKS			14	2311
MAME OF WELL CONTRACTOR Capital Water Supply Lt	LICENCE	ONTRACTOR'S NUMBER	DATE OF INSPECT	58 CON1		RECEIVED AUG 2 4 195	34 10
Capital Water Supply Lt ADDRESS  Box 490 Stittsvelle, C NAME OF WELL TECHNICIAN  S.Miller/ J. Moore		,30	lui	TION	INSPECTOR	1 13.	-
Box 490 Stittsvelle, (		ECHNICIAN'S E NUMBER	S REMARKS				
S.Miller/ J. Moore SIGNATURE OF JECHNICIAN/CONTRACTOR		7/T0096	OFFICE				1
	DAY 7 MO 7	YR. 94	1 注				į.

#### The Ontario Water Resources Act

#### WATER WELL RECORD

Ontario	IFORMIENE  1. PRINT ONLY IN S  2. CHECK ⊠ CORRE	PACES PROVIDED	152820	2 NUNICIP (ON.	
COUNTY OR DISTRICT		TOWNSHIP, BOROUGH CITY, TOWN, VILLAGE Goulbourn		CON . BLOCK, TRACT, SURVEY ETC	LOT 25-27
				DATE COM	· · · · · · · · · · · · · · · · · · ·
			CONTARIO KOA	RC BASIN CODE II	мо <u>9</u> ук <u>94</u>
1 2	10 12	G OF OVERBURDEN AND BEDR	25 26 LILL C	30 31	47
GENERAL COLOUR	MOST	OTHER MATERIALS		GENERAL DESCRIPTION	DEPTH - FEET
Brown	COMMON MATERIAL				FROM TO
Gray	Sandy Clay Sandy Clay	Gravel		Wet.	6 16
Gray	Limestone			110-14	16 85
-					
31				بالبيليلياك	
1 2 10	ER RECORD	51 CASING & OPEN HOLE	PECORD	SIZE S) OF OPENING 31-33 DIAME	75 80 TER 34-38 LENGTH 39-40
WATER FOUND AT - FEET	KIND OF WATER	INSIDE WALL THICKNESS	DEPTH - FEET	(SLOT NO )	INCHES FEET
1	FRESH 3 SULPHUR  4 MINERALS 6 GAS	10-11 1 STEEL 12 -188	0 22.	mareniae and fife	DEPTH TO TOP 41-44 30 OF SCREEN FEET
48 15.18 1 0	FRESH 3 DEULPHUR 19  A DMINERALS  SALTY 6 GAS	3 CONCRETE 4 DOPEN HOLE 5 PLASTIC	6		ING RECORD
20-23	FRESH 3 SULPHUR 4 MINERALS 5ALTY 6 GAS	17-18 1   STEEL   19   2   GALVANIZED   3   CONCRETE		FROM TO MATERIAL AND	O TYPE (CEMENT GROUT LEAD PACKER, ETC.)
25-28 1 _	FRESH 3 SULPHUR 4 MINERALS SALTY 6 GAS	5 7/8 4 COPEN HOLE 5 SPLASTIC 24-25 1 GSTEEL	22 85	20 6 Grouted	Cement (6)
30-33 1	FRESH 3 SULPHUR 34 10 4 MINERALS SALTY 6 GAS	2 □ GALVANIZED 3 □ CONCRETE 4 □ OPEN HOLE		26-29 30-33 80	
71 PUMPING TEST MET		5 PLASTIC	]	LOCATION OF WEL	1
PUMP	2 SK BAILER WATER LEVEL 25	3 GPM 15-16 17-18 MINS	IN DIAGRAM	BELOW SHOW DISTANCES OF WELL	
LEVEL	END OF WATER LEY PUMPING  22-24 15 MINUTES	VELS DURING	LOT LINE	INDICATE NORTH BY ARROW.	1
	26-28 67 FEET 67 FEET 38-41 PUMP INTAKE SE	29-31 32-34 35-37 67 FEET 67 FEET 67 FEET 42	/ `		
IF FLOWING. GIVE RATE  RECOMMENDED PUM	GPM	TAT WATER AT END OF TEST 42  FEET 1 CLEAR 2 CLOUDY			
RECOMMENDED PUM	PUMP	43-45 RECOMMENDED 46-49 PUMPING RATE 3 GPM		- L well	
10-53		73 3		Test Well #5 XK	
FINAL STATUS	WATER SUPPLY Description well Test hole		# \   \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	``	1
OF WELL	4 RECHARGE WELL	7 UNFINISHED  DEWATERING	).c		1
WATER		COMMERCIAL     MUNICIPAL     PUBLIC SUPPLY			<u>;                                    </u>
USE		COOLING OR AIR CONDITIONING  9		Flewelyn Rd	9
METHOD	CABLE TOOL 20.	5-85			\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
OF CONSTRUCTIO	3 G ROTARY (REVERSE)	B			1 4 7 7 2 2
NAME OF WELL C	S AIR PERCUSSION O	-20.5 ☐ DIGGING ☐ OTHER	DRILLERS REMARKS	se Lourneron	147733
	Water Supply L	LICENCE NUMBER	N SOURCE		0 7 1994 ""
125		lle, Ontario K2S 1A6	SE	INSPECTOR	
S.Miller	r/J. Moore	TO097 /TO096	REMARKS		
O SIGNATURE OF T	Wan Contractor	DAY 15 MO 98 YR 94	OFFICE		
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Mark correct box with a checkmark, where applicable.

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Municipality	Con.				
15003	CON	1	i	1	09
10 14	15			22	23 24

				1 2				15003	CON	22 21
County or District Ottawa C			i	/Borough/City	//Town/Villag	e		Con block tract	survey, etc. Lo	
Owner's surname	9 28-47	First name	Address	lbourn		*		9 Date		<u>24</u>
Technica	l Dimensions	7		Antare	es Dr.			o K2E 7W5 <sup>omp</sup>		onth <b>97</b> yea
21		Zone Eastir	17		الـــانـــا	RC Elev	vation RC	Basin Code	II III	iv 
		LOG OF (	OVERBURDE	N AND BEI	DROCK MA	TERIALS	(see instruc	tions)		
General colour	Most common r	naterial	Oth	ner materials			Genera	d description	From	pth - feet
Brown	Sand						F	ill	0	2
Brown	Sand			Gravel			P	acked	2	5
Gray	Limesto	ne						roken	5	8
Gray	Limeston	ne						ard	8	
_										
							7164-6			
	***			7				779		
			- Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Apple Appl					***		
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31			11	1,1,2	1 .	<u> </u>	1.11		1 1	
32	<u> </u>	<u> </u>				<del></del>	!			<b>  L</b>
1	ER RECORD	51	CASING & C		E RECORI	)	Sizes of c		meter 34-38 Lengt	75 8 h 35-4
Water found at – feet	Kind of water	Inside diam inches	Material	Wall thickness inches	Depth - From	feet To	(Slot No.)		inches	feet
	Fresh 3  Sulphur 14 Salty 6 Gas	6 19/4	Steel 12 Galvanized	-188	0	22	Material a	nd type	Depth at top o	of screen 30
	Fresh 3 Sulphur 19	) 4 [	Concrete Open hole							feet
92	Salty 6 Gas Fresh 3 Sulphur 24	17-18 1	Plastic  Steel 19			20 - 23	61	PLUGGING & SE Annular space	ALING RECOR	
125	Salty 6 Gas	3 [	Galvanized Concrete Open hole		22	129	Depth set at -	feet	pe (Cement grout, be	
, –	Salty 4 Minerals	24-25	Plastic				10-13 20	14-17	Cement 1	
30 -33 1 🗆	Fresh 3 Gas	2 [	Galvanized Concrete			27 30	18-21	22-25	HolePlug	•
2 []	Salty 6 Gas	4 L 5 (	Open hole Plastic				2629	30-33 80		
Pumping test me	ethod 10 Pumping ra	te 11-14 D	uration of pumping	] Mins			LOC	ATION OF WELL		
Statis Isual Wa	ater level %			Recovery		In diagram	below show orth by arrow.	distances of well fro	m road and lot lir	ne.
	22-24 15 minutes		5 minutes 6	0 minutes				Jun Roa	ρ	
If flowing give rat	70 feet 37 fee	t 60 feet	20 fet	70 feet			,000	ugu noa	<u> </u>	···
If flowing give rat	te 38-41 Pump intake	e set at feet	/ater at end of test	12 Cloudy						
	pump settin		ecommended ump rate	46-49						
☐ Shallow 50-53	Deep	120et		4 GPM			_			
FINAL STATUS		ned, insufficient supp	ılv q ∏ Unfinishe	ed.		De la Care		1-louse	15	S
2 ☐ Observation 3 ☐ Test hole	n well 6 ☐ Abando 7 ☐ Abando	ned, poor quality ned (Other)	10 ☐ Replacer		)		9	1-1002	X	Poplarwood
4 Aecharge v	well <sub>8</sub> ☐ Dewate	ring				ØC.			11'8"	3
WATER USE  Domestic	55-56 5 🔲 Comme	rcial	₃ ☐ Not used					L		Š
2 T☐ Stock 3 ☐ Irrigation 4 ☐ Industrial	€ ☐ Municip 7 ☐ Public s	al supply & air conditioning	10 ☐ Other					G		0
				~ 0					1	12
₁ 🙀 Cable tool	DNSTRUCTION 57 5 Air perc	ussion	9 Driving				ho	st *15		
2 ☐ Rotary (cor 3 ☐ Rotary (rev 4 ☐ Rotary (air)	rerse) 7 🗆 Diamon	d	10 Digging 11 Other						17564	3
-, \-"/	8 - 00tmly								11004	<u>،</u>
Name of Well Contrac		_	Well Contractor's	Licence No.	∑ ⊃ata source		8 Contracctor		te received	63-68 80
Capital W	later Supply	Ltd.	1558		N	of inspection	15	58	JUN 27 19	397 <u> </u>
P-O- Box Name of Well Technic	490 Stittsv	ille, Onta	rio K2S Well Technician's	1A6	AEMAI GENERAL SERVICES	rv c		•		
W. Kavana	ah		T0095		STR	n a			. 9	M
Signature of Technicia	11		Submission date day 26mo 5		Z				_	.X
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2 - MINISTRY ON ENVIRONMENT & ENERGY COPY

MINISTRY OF THE ENVIRONMENT COPY

#### The Ontario Water Resources Act

#### VATER WELL RECORD

1529428 CON . 1. PRINT ONLY IN SPACES PROVIDED 2 CHECK S CORRECT BOX WHERE APPLICABLE TUP. OF GOULBOURN OTTAWA-CARLETON TECHNICAL DIMENSIONS INC. 850-36 Antares, Ngolan, Ont. KIE Hus 21 LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS DEPTH FEET MOST COMMON MATERIAL GENERAL COLOUR OTHER MATERIALS GENERAL DESCRIPTION 5AND BROWN SANDY CLAY FILL ORHY 5 ANI BOWNERS 12 FOULDERS TILL 20 VILLESTONE SHALE 31 32 41 WATER RECORD CASING & OPEN HOLE RECORD KIND OF WATER MATERIAL FRESH 3 SULPHUR
4 MINERALS 1 STEEL
2 D GALVANIZED
3 CONCRETE
4 OPEN HOLE
5 PLASTIC FRESH 3 SULPHUR
A MINERALS **PLUGGING & SEALING RECORD** 1 STEEL
2 GALVANIZED
CONCRETE MATERIAL AND TYPE (CEMENT GROUT LEAD PACKER, ETC.) ☐ FRESH SALTY 3 DSULPHUR
4 DMINERALS
6 DGAS FRESH FRESH ☐ FRESH LOCATION OF WELL 2 G BAILER IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE INDICATE NORTH BY ARROW. NATER LEVEL END OF PUMPING 22-STATIC LEVEL RECOVERY Fkwellyn Rd 21 Ponlar woods Dr IF FLOWING 5 ABANDONED, INSUFFICIENT SUPPLY
6 ABANDONED POOR QUALITY WATER SUPPLY FINAL **STATUS** ☐ TEST HOLE 7 | UNFINISHED OF WELL 4 | RECHARGE WELL DEWATERING DOMESTIC Z STOCK 6 MUNICIPAL WATER IRRIGATION COOLING OR AIR CONDITIONING

9 NOT USED USE INDUSTRIAL OTHER CABLE TOOL ROTARY (CONVENTIONAL) 6 BORING METHOD ☐ ROTARY (REVERSE) ☐ JETTING CONSTRUCTION 15047 OTHER DIGGING STANTON DRILLING INC 4875 JUN 2 4 1997 ONL DATE OF INSPECTION Paknham, Ont. 101. OFFICE USE CSS. S FORM NO. 0506 (11/86) FORM 9

The Ontario Water Resources Act

#### WATER WELL RECORD

Ontario	ironment		152942	O MUNICIP. CON	
		SPACES PROVIDED RECT BOX WHERE APPLICABLE	132342		22 23 74
OTTHWA -	CARLETON	TWP. OF GOLLA	BOURN	CONCESSION .	9 24"
OWNER (SURNAME FILE	NIMENSIONS,	ADDRESS		NO. KRE FWS DATE COM	5° 10° 96
21	ZONE EASTING	NORTHING RC	ELEVATION 54	BUNISION SUB	101 #8
	L(	OG OF OVERBURDEN AND BEDRO		(SEE INSTRUCTIONS)	47
GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS		GENERAL DESCRIPTION	DEPTH - FEET FROM TO
BROWN	SAND				07
CREY	SAND	BOUNDES			7 4
GREY	TILL	BULLDERS	Back	1 6-1	4 21
GREP	LIMESTAE	SHATE	CRUNG	V (Z3')	71
			·		
				•	
-				•	
31   1, , ,		<u> </u> 	1	. { ] [ ]	
32				<del>┸</del> ┚ <del>┖┺┻┸┸</del> ┹┹┻┹┹ <del>┸</del> ┚ <del></del> ┖╻╻╏╏╻╏┎	
41 WA	TER RECORD	51 CASING & OPEN HOLE		54 55 SIZE(S) OF OPENING 31-33 DIAME	75 60 TER 34-38 LENGTH 39-40
WATER FOUND AT - FEET	KIND OF WATER  14  FRESH 3 DSULPHUR	INSIDE DIAM MATERIAL THICKNESS INCHES	ROM TO C	MATERIAL AND TYPE	INCHES FEET  DEPTH TO TOP 41-44 30  OF SCREEN
28 10	MINERALS S	10-11 1 STEEL 12 GALVANIZED 3 GCONCRETE	3 3 / [		FEET
2	FRESH 3 SULPHUR  4 MINERALS  GAS	4 OPEN HOLE 5 PLASTIC 19		DEPTH SET AT FEET MATERIAL AND	CEMENT GROUT
2 2	SALTY 6 GAS	SH 3 GALVANIZED 3 GONCRETE 4 OPEN HOLE STATES	1 71 1	4 10-13 3/14-17 Cronca	LEAD PACKER ETC )
1 ' '	FRESH 3 SULPHUR 29 SALTY 6 GAS	24-25 1   STEEL   26	27-30	18-21 22-25	
	] FRESH 3 □ SULPHUR 34 DO 4 □ MINERALS ] SALTY 6 □ GAS	3 □ CONCRETE 4 □ OPEN HOLE 5 □ PLASTIC		26-29 30-33 80	
71 PUMPING TEST MET	THOD 10 PUMPING RATE	5 7 15-16 D 17-18		LOCATION OF WEL	L
STATIC LEVEL	WATER LEVEL 25	GPM HOURS MINS  1 PUMPING 2 RECOVERY	IN DIAGRAI	M BELOW SHOW DISTANCES OF WELL INDICATE NORTH BY ARROW.	FROM ROAD AND
+ Z " "	# 15 MINUTES	30 MINUTES 45 MINUTES 60 MINUTES 32-34 35-37	1 5u	blot#8_ 1	
IF FLOWING.	FEET FE	ET FEET FEET FEET SET AT WATER AT END OF TEST 42		i	9
RECOMMENDED PU			12	House of	W
SHALLOW	DEEP SETTING	60 FEET RATE \$65 GPM	1 1/4	100	
FINAL	1 WATER SUPPLY	5 ABANDONED, INSUFFICIENT SUPPLY		321	2
STATUS OF WELL	2 OBSERVATION WEI 3 TEST HOLE 4 RECHARGE WELL	LL 6 ABANDONED POOR QUALITY 7 UNFINISHED DEWATERING		WELL. 1	7
	DOMESTIC STOCK	5 COMMERCIAL 6 MUNICIPAL	\	ĺ	
WATER USE	3   IRRIGATION 4   INDUSTRIAL	7  PUBLIC SUPPLY  I COOLING OR AIR CONDITIONING		Parloquerock Nr.	
	57 CABLE TOOL	9   NOT USED 6   BORING	' -	Poplarwoods Dr	
METHOD OF	ROTARY (CONVENT)	TIONAL) 7 🗍 DIAMOND	Wood	kide Acies	-th
CONSTRUCTION	ON 4 ROTARY (AIR) 5 AIR PERCUSSION	9   DRIVING   OTHER	DRILLERS REMARKS 5	ubdivision	150476
NAME OF WELL	CONTRACTOR  ON DRILLING	WELL CONTRACTOR'S	> DATA SOURCE	4875 JUN	
NAMES WELLOW	19 Pollers	en, Ort. 40120	DATE OF INSPECTION	INSPECTOR	1 4 7 1331
A PARTY WELL	L TECHNICIAN	WELL TECHNICIAN'S	O REMARKS		
SIGNATUR OF	AGHNICIAN/CONTRACTOR	SUBMISSION DATE  DAY SI NO 10 YEB	OFFICE		css. s
MINISTRY	OF THE ENVIRON	MENT COPY	•	FO	RM NO. 0506 (11/86) FORM 9

COUNTY OF DISTRICT OTTAM - CARLETON  TOPP OF COUNTY ON NUMBER APPLICABLE  TOPP OF COU	To 32 10 170 152
OWNER (SURNAME FIRST)  WHITTSTONE  OWNER (SURNAME FIRST)  LOG OF OVERBURDEN AND BEDROCK MATERIALS  OTHER MATERIALS  GENERAL COLOUR  BROWN  TILL  TOTHER MATERIALS  TOTHER	8 10 170
LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)  BROWN GRY SAND  BROWN TILL  GREY LIMITSTONE	8 10 170
LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)  GENERAL COLOUR MOST COMMON MATERIAL OTHER MATERIALS GENERAL DESCRIPTION FROM  BROWN GRY SAND  CORRESPONDE  BROWN TILL  GREY LIMESTONE	8 10 170
GENERAL COLOUR MOST COMMON MATERIAL OTHER MATERIALS GENERAL DESCRIPTION FROM  BROWN GREY SAND  BROWN TILL  GREY LIMESTONE	8 10 170
BROWN-GREY SAND  BROWN TILL  GREY LIMESTONE  10	10
BROWN TILL B GREY LIMESTONE 10	120
RED-GREY SHALE GREEN  120	
31	
32 10 14 15 21 21 32 43	75 10
41 WATER RECORD  S1 CASING & OPEN HOLE RECORD  WATER FOUND  WATER FOUN	LENGTH 39-40
AT - FEET KIND OF WATER  DIAM MATERIAL THICKNESS FROM 10  OF SCREEN  OF SCREEN	41-44 30
45 ( Capri ) SANOT HESTED 10-11   XISTEEL 2 GALVANIZED 3 GOOVERTE 4 GOVERNOUS BY +Z ZO 61 PLUGGING & SEALING REC	ORD
SALTY FIGAS  SALTY FIGAS  SUPLASTIC  SUPLAST	MENT GROUT . PACKER, ETC
10 5 4 2 1 1 1 FRESH 3 SULPHUR 29 3 CONCRETE 4 1 OPEN HOLE 5 1 1 1 FRESH 3 SULPHUR 29 3 CONCRETE 4 1 OPEN HOLE 5 1 1 1 1 FRESH 3 SULPHUR 29 3 CONCRETE 4 1 OPEN HOLE 5 1 1 1 1 FRESH 3 SULPHUR 29 3 CONCRETE 4 1 OPEN HOLE 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
2   SALTY 6   GAS   1   STEEL   2   GALYANIZED   30-33   1   FRESH 3   SULPHUR 34 0   3   CONCRETE   26-29   30-33   80	
Z SALTY 6 GAS   5 PLASTIC	
71 1 PUMP 2 X BAILER GPN 15-16 0 17-18 LUCATION OF WELL	AND
STATIC UNION DOF WATER LEVELS DURING 2 RECOVERY LOT LINE INDICATE NORTH BY ARROW.	₩.
19-21 H 22-24 15 MINUTES 30 MINUTES 45 MINUTES 45 MINUTES 45 MINUTES 45 MINUTES 35-32 4 4 35-37 Subject 37 FEET 39 52-34 4 35-37 Subject 37 FEET 4 FEET 5-4-4-5-5-4-5-5-4-5-5-4-5-5-4-5-5-4-5-5-4-5-5-4-5-5-4-5-5-4-5-5-4-5-5-4-5-5-4-5-5-4-5-5-4-5-5-4-5-5-4-5-5-4-5-5-4-5-5-4-5-5-4-5-5-4-5-5-4-5-5-4-5-5-4-5-5-4-5-5-4-5-5-4-5-5-4-5-5-4-5-5-4-5-5-4-5-4-5-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-4-5-5-4-5-4-5-5-4-5-5-4-5-5-4-5-5-5-4-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5	フル
FEET FEET FEET FEET FEET FEET FEET FEET	
RECOMMENDED PUMP TYPE RECOMMENDED A3-45 RECOMMENDED PUMP PUMP PUMP FEET RATE GPM	
50'-51	
FINAL    WATER SUPPLY   S   ABANDONED, INSUFFICIENT SUPPLY   Z   OBSERVATION WELL   S   ABANDONED POOR QUALITY   STATUS   3   TEST HOLE   7   UNFINISHED	
OF WELL 4 RECHARGE WELL DEWATERING  55-56 Y DOMESTIC 5 COMMERCIAL	==
WATER  USE    STOCK   MUNICIPAL   MUNICIPA	
METHOD  1 CABLE TOOL 2 ROTARY (CONVENTIONAL) 2 DIAMOND  WYTCHARD ACLES SUBJIVISION 1 DIAMOND	
OF   OF   OF   OF   OF   OF   OF   OF	0478
Director Remarks	63.61 80
	97
NAME OF WELL TECHNICIAN WELL TECHNICIAN'S WELL TECHNICIAN'S	-Q/
ADDRESS BOX 2/9, Palkenkam, Onl. KOAZXO  NAME OF WELL TECHNICIAN'S  LINDESS  SIGNATURE OF HINGIAN CONTRACTOR  SUBMISSION DATE  SUBMISSION DATE  O ADDRESS  WELL TECHNICIAN'S  LINDESS  SUBMISSION DATE  O ADDRESS  DATE OF INSPECTION  INSPECTOR  WELL TECHNICIAN'S  LINDESS  SUBMISSION DATE  O ADDRESS  DATE OF INSPECTION  INSPECTOR	1
MINISTRY OF THE ENVIRONMENT COPY  FORM NO. 0500	

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Municipality NS ○ 03	Con.		
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		1 2			10 14 15	an,	22 21
County or District		Township/Borough/Cit	y/Town/Village		Con block tract surv	ey, etc. Lot	25.2
Ottawa Ca Owner's surname		Goulb	ourn		9		24
	B 28-47 First name	Address			Date		43-5
	U Zone Eas	850-36 Antar	es Drive		Basin Code ii	3 day 6 mo	onth <b>97</b> yea
21	T 10 12	17 18	1 1 24 25		L L L L L L	11111	
	LOG OF	OVERBURDEN AND BE	DROCK MATE	ERIALS (see instructi	ons)		4
General colour	Most common material	Other materials		General	description		oth - feet
D						From	То
Brown	SAnd	***		Fil	1	0	2
Brown	Sand	Gravel		Pac	ked	2	5
Gray	Lipestone			HAr	rđ	5	110
Brown	Limestone						
		A. A. A. A. A. A. A. A. A. A. A. A. A. A		Med		110	139
Gray	Limestone			Har	ď	139	155
					10.50		
	244						
					7-146		
		1. F. W. C					
31						1111	1 , 1 !
32							ا لنداد
10 14 1 <b>WAT</b>	ER RECORD 51	CASING & OPEN HOL	E RECORD	54 Sizes of op	ening 31-33 Diameter	34-38 Length	75 8
Vater found t feet	Kind of water Inside diam	Material Wall thickness	Depth - fee		Ì	nches	feet
	Fresh 3 Sulphur 14 inches	inches	From	To (Slot No.)  Material and		Depth at top of	f screen 30
92	Salty 6 Gas 6 10/4	Galvanized • 188	0	25°			41-44 feet
n	C_IL. 4 ☐ Minerals   .	☐ Open hole ☐ Plastic			DI HOONG & CEALIN	0.05000	
143	17 18	☐ Steel 19 ☐ Galvanized		20.23	PLUGGING & SEALIN	☐ Abandonmer	
152   º º	Gas 5 5 7/0	Concrete Copen hole	25 ]	Depth set at - for	Material and type (Ce	ment grout, ben	tonite, etc.)
	Fresh D Minerals	∐ Plastic	2.7	10-13	14-17		•
	6 Gas 24-25 1	☐ Steel 26 ☐ Galvanized		27 30 20 18 21	O Grouted Ce	•	•
	Fresh 3 Sulphur 34 60 3 Salty 6 Gas 5	☐ Concrete ☐ Open hole ☐ Plastic		26-29	30-33 80 HC	le Plug	(1)
Pumping test me		Duration of pumping		LOCA	ATION OF WELL		
	ater level 25	Pumping 2 Recovery		diagram below show di licate north by arrow.	stances of well from ro	ad and lot lin	e.
	22-24 15 minutes 30 minutes	45 minutes 60 minutes	$\parallel \mathcal{L} \parallel$	ilicate north by arrow.			
27 feet  If flowing give rat  Recommended p	26-28 29-31	32-34 35-37	/ `	İ			
27 feet If flowing give rat	80 feet	78   80   feet		Lot # 1	3		
B	GPM feet	☐ Clear 🦅 Cloudy			<del>T</del>		
1	pump setting	Recommended 46-49 pump rate	,	Steps-[			
50-53	X Deep 130 feet	<u>5</u> дрм		8 H 2	House		
NAL STATUS	OF WELL 54		il '	0 106			
Water supp	n well 5 ☐ Abandoned, insufficient su 6 ☐ Abandoned, poor quality	oply 9 🔲 Unfinished 10 🗎 Replacement well		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	<u> </u>		
₃ ☐ Test hole ₄ ☐ Recharge v	7 Abandoned (Other)		1	13'5"			
				3			
ATER USE	55-56 5 Commercial	գ □ Not used		4	\ 51	Se	
2 ☐ Stock 3 ☐ Irrigation	6 D Municipal 7 D Public supply	10 Other		0	, )000	4	
₄ ☐ Industrial	8 Cooling & air conditioning		(	외	Noogs,	e	
ETHOD OF CO	DNSTRUCTION 57	\$444-A	\ <u>\</u>		1,500		
Cable tool	5 Air percussion	g Driving		1 2 6	-		
3 Rotary (rev	rerse) 7 🗌 Diamond	10 Digging	Fleu	vellyn Rood	1 -	75050	<b>1</b>
,	8 Li ocuity				<u></u>	75650	J
ame of Well Contrac	ctor	Well Contractor's Licence No.	<b>&gt;</b> ⊃ata	58 Contracctor	59-62 Date rece	ived	63-68 80
apital Wa	ater Supply Ltd.	1558	ONT Source		58 JÜÜ		97 "
					pector		<del></del>
O. Box 4	190 Stittsville,Ontar	io K2S 1A6 Well Technician's Licence No.	HSO ARE of ins				
. Kavanao	-	T0095	E Tremarks			W	1
ignature of Technicia	an/Contractor	Submission date	IJ≝Ï			Y	7
12//	<i>i</i> 1				<u> </u>	`	U
Myrc	und	day 4 mo 6 yr 97	Σ		· · · · · · · · · · · · · · · · · · ·	9506 (07/94) Fro	7

0506 (07/94) Front Form 9

Print only in spaces provided. Mark correct box with a checkmark, where applicable. 1529462 11 15003 CON 09 County or District Township/Borough/City/Town/Village Con block tract survey, etc. Lot Ottawa Carleton Goulbourn a Address Owner's surname First name Date completed 18 6 month 97ear 850-36 Antares Drive Nepean, Ontario u Zone Easting 21 \_\_\_\_\_\_ 1 1 LOG OF OVERBURDEN AND BEDROCK MATERIALS (see instructions) Depth - feet General colou Most common material Other materials General description From Brown Sand **Fill** 0 2 Brown Hardpan Boulders 5 Packed 2 Gray Limestone 5 Hard 57 Gray Limestone Medium 57 155 نسيبالنسا لبلا Sizes of opening (Slot No.) WATER RECORD **CASING & OPEN HOLE RECORD** 51 Length Water found at - feet Inside Depth diam thickness То inches ☐ Sulphur ☐ Minerals ☐ Gas Fresh 3 Material and type Depth at top of screen 6 1º/4 | Steel | Galvanized | Galvanized | Concrete | Open hole | Plastic .188 0 22 2 🛘 Salty 54 ☐ Sulphur ☐ Minerals ☐ Gas ı 🗌 Fresh , ☐ Salty **PLUGGING & SEALING RECORD** 61 96 Steel
Galvanized
Concrete
Copen hole
Plastic 20-23 3 ☐ Sulphur
4 ☐ Minerals
6 ☐ Gas □ Fresh Annular 2 🗌 Salty Depth set at - feet 149 Material and type (Cement grout, bentonite, etc.) 5 7/8 22 155 From То Les Sus phur 1 Steel 2
2 Galvanized
3 Concrete
4 Open hole
5 Plastic 20 2 🗆 Saity Grouted Cement (2) 27-30 Sulphur Minerals Gas 30-33 ⊥ ∏ Fresh Hole Plug (1) > ☐ Salty Duration of pumping Pumping test method Pumping rate **LOCATION OF WELL** 2 🛘 Bailer 4-5 GPM Pump In diagram below show distances of well from road and lot line. Water levels during Static level ₁ 🖫 Pumping ₂ ☐ Recovery end of pumping Indicate north by arrow. 22-24 15 minutes 26-28 30 minutes 45 minutes Woodside acres. 100 feet **12**eet 45eet 68 **98** feet PUMPING If flowing give rate Water at end of test 38-41 Pump intake set at GPM ☐ Clear Cloudy Recommended pump type Recommended Recommended 43 - 45 pump setting pump rate ☐ Shallow ☐ Deep 130 GPM FINAL STATUS OF WELL 54
5 Abandoned, insufficient supply 9 Unfinished
6 Abandoned, poor quality 10 Replacement well
7 Abandoned (Other)
8 Dewatering Water supply
Observation well
Test hole
Recharge well Lot 19 WATER USE 55-56 Domestic
Stock
Irrigation 5 Commercial
6 Municipal
7 Public supply
8 Cooling & air conditioning 9 Not used 10 Other ..... √ Industrial METHOD OF CONSTRUCTION 57 □ Driving 10 Digging Place **17565**7 Name of Well Contractor Well Contractor's Licence No ONLY **5** 5 8 JUL 1 5 1997 Capital Water Supply Ltd. 1558 Date of inspection USE P.O. Box 490 Stittsville, Ontario K2S 1A6 **IISTRY** U Fernarks W. Kavanagh **T0095** hum day 18 mo 6

2 - MINISTRY OF ENVIRONMENT & ENERGY COPY



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Mark correct box with a checkmark, where applicable.

1529489

Municipality	Con.		
15003	CON		09
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0506 (07/94) Front Form 9

		1 2	, ,	, 2 3 4	03	1,50	14 CO	N	22 23 24
County or District Ottawa Ca	** ·	Township/Borough/City/	/Town/Village				tract survey	, etc.	Lot 25-27
Owner's surname		Address				9	Date		24
Technica.	l Dimensions	850 - 36 Anta	ares Dr		an Ont.	Basin Code	completed	23 m	7 97 year
21	U Zone	2 17 18		25 26		Basin Code			iv
	LOG	OF OVERBURDEN AND BED	ROCK MA	TERIALS	(see instructi	ons)		1 ,	Danish 64
General colour	Most common material	Other materials			General	description		From	Depth - feet To
Brown	Sand	Gravel		fil	<u> </u>			0	4
Brown	loam			loo	3e			4	5
Grey	limestone			hare	3			5	48
Grey	limestone	brown layers		med:	1 700			48	130
•				arcu.	LUM				
31   , , ,		· · · · · · · · · · · · · · · · · · ·	11	<del>                                     </del>		11.1.			
32			_ <u></u>	<del>                                     </del>				.     <sub> </sub>	
1	TER RECORD 51	CASING & OPEN HOLI			Sizes of or (Slot No.)	pening	65 B1 33 Diameter	34-38 Le	75 80 ngth 39-40
Water found at - feet	Kind of water Inside diam inches	Material Wall thickness inches	Depth -	feet To				ches	feet
<b>90</b>   2 C	Fresh 3 Sulphur 14 Minerals Salty 6 1%	2 Galvanized	0	20 13-16	Material ar	nd type		Depthat to	op of screen 30
125'5-18 ' 1	Sulphur 19 Salty 6 Gas	Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant Concrete Grant							feet
	17-18			20-23	61	PLUGGIN Annular space	G & SEALING	Abando	
2	Salty 6 Gas 6	3 ☐ Concrete  8 4 ★ Open hole	22	130	Depth set at ~ From	To Mate	rial and type (Cen	nent grout,	bentonite, etc.)
	Fresh 3 ☐ Sulphur 29         Salty 4 ☐ Minerals         Gas         24-25	5 Plastic		27-30	200-13 0	14-17 Gr	outed cer	nent	(3)
	Fresh 3 Sulphur 34 60	2 Galvanized 3 Concrete 4 Open hole			26-29	30-33 80			
2	Salty 6 Gas	5 ☐ Plastic							
Pumping test m	1	15 40 47 19		·	LOC	ATION OF	WELL j	<sup>2</sup> O #	493
	Vater level 25 Water levels during	₁ <b>X</b> Pumping ₂ ☐ Recovery			below show dorth by arrow.	listances of	well from roa	d and lo	t line.
19-21	22-24 15 minutes 30 minutes 26-28 29	45 minutes 60 minutes 32-34 55:37			·		· R		
18 feet If flowing give ra		tet	12						
If flowing give ra		et Clear Cloudy			Lot.	42			
Recommended  □ Shallow	pump setting	pump rate			,	150	-	_	
50-53	100 fe	et <b>5</b> GPM			ارعار			oac	
FINAL STATUS		nt supply 』 □ Unfinished	:		45	House	ı	Ź,	
Water sup Doservation Test hole Recharge	¬ □ Abandoned (Other)	ity i₀ □ Replacement well		•	+ <del>\( \)</del>		→	<u>ā</u>	
					37 10 -			ક્	
WATER USE  Domestic	55-56  Commercial	9 ☐ Not used					Ì	א גע	
2 ☐ Stock 3 ☐ Irrigation 4 ☐ Industrial		10 Other	Wood	Iside			ŀ	oplarwod	
METHOD OF O	CONSTRUCTION 57		Acr	Iside es			k	20	
, 🙎 Cable too	on 20-130 \$ Air percussion 0-2 onventional)	O g Driving							
3 ☐ Rotary (re	everse) 7 🗍 Diamond	Other			Flowe	ilyn I	10ad 17	56	80
Name of Well Contra		Well Contractor's Licence No.	Data source		Contracctor	<b>58</b>	Date receiv		63-68 90 1 <b>QQ</b> 7
	ater Supply Ltd.	1558	ш Date d	of inspection		spector	AVU	, , 🕶	1231
Box 490, S Name of Well Techn	<u>Stittsville, Ont. K</u> <sub>nician</sub>	2S 1A6 Well Technician's Licence No.	RINISTRY US	rks			•		
W. Kayana	agh /	10095	IISTE						W
Signature of Technic	A Va A C. (b)	Submission date	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	ja.	<b>.</b>				3

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10	14	15		22	23	2

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County or District		Township/Boroug	h/City/Town/Village		Со	n block tract surve	ey, etc. Lot	24
Owner's surname	First name	Address 850–36 Ant	eroe Driv	e Nonest	n,Ontario	Date completed	7 day 8 mo	48-43 nth <b>97</b> vear
	9	Easting K2E 7W5Northi		RC Elevation	RC Bas	in Code ii	111	iv
21	, LOG	OF OVERBURDEN AND	BEDROCK MA	ATERIALS (sec	30 31			17
General colour	Most common material	Other mate			General desc		Dep From	th – feet To
	<b>3</b>				Fill		0	2
Brown	Band	Gravel			Packe	đ	2	7
Brown	Loam	Graver			Hard		7	47
Gray	Limestone Limestone	Brown La	avora		Mediu	m	47	175
Gray	DIRECTOR							
31								1
32	14 15	CASING & OPEN	LHOLE RECOR		54 Sizes of openir	65 ng 31-33 Diamete	r 34-38 Lengt	75 E
Water found	VIER RECORD 51 Inside diam	Wall	Depti cness	n - feet	(01-4-11-3)	.9	inches	feet
	□ Fresh 3 □ Sulphur 14 6 10	// □ Steel 12 _ 18		To 22	Material and ty	ре	Depth at top	of screen 3
46	☐ Saity 6 ☐ Gas	3 ☐ Concrete 4 ☐ Open hole	ļ					feet
242 2	☐ Salty 6 ☐ Gas	5 Plastic		20-23	<u> </u>	.UGGING & SEAL ular space	ING RECOR  ☐ Abandonm	
160 2	☐ Fresh 3 ☐ Sulphur 24 ☐ Minerals ☐ Salty 6 ☐ Gas 6 1	Galvanized Concrete Open hole	22	175	Depth set at - feet From To	Material and type (	Cement grout, be	entonite, etc.
N	Fresh 3 Dulphur 29	5   Plastic		27-30	20	O Grouted (	Cement (	(3)
30-33	☐ Fresh <sup>3</sup> ☐ Sulphur <sup>34</sup> <sup>60</sup>	Galvanized Galvanized Goncrete Goncrete	ļ			-33 80		
2	☐ Hresh ☐ Minerals ☐ Gas	5 Plastic		<u> </u>				
Pumping test i	ineurod is running rate	Duration of pumping	Mins			ION OF WELL		t
01.11.1	Water level end of pumping 25 Water levels during	1 Pumping 2 Rec	covery	In diagram b Indicate nort	elow show dist h by arrow.	ances of well from	$^{+}$ $^{+}$	
19-21	22-24 15 minutes 26-28 30 minut	es 45 minutes 60 min	utes 35-37	1			LOT	1
37 feet USU If flowing give		feet 55 feet Water at end of test	5.5feet 42	. !	House			
d I ioming give	GPM	feet Clear Clear	oudy 46-49	1	De	1 1		
Recommende	pump setting	pump rate	GPM		Steps	715		
50-53				1	26	ا ا * لا		RA
FINAL STATU Water st	upply 5 Abandoned, insuffice ation well 6 Abandoned, poor q	cient supply 9 🔲 Unfinished uality 10 🗎 Replacement	well	Po	plarue	000		
₃ ☐ Test hol	le 7 Li Abandoned (Other)			, -	<b>Y</b>		TA	ewellyn
WATER USE	55 56						1	3
Domesi Stock	€∐ Municipal on 7 ☐ Public supply	<sub>9</sub> Dot used <sub>10</sub> Other						j j
₃ ☐ Industri		tioning		<i>لح</i>	side			14
METHOD OF	CONSTRUCTION 57	_2∩ <sub>9</sub> □ Driving		Soow Ac				•
2  Rotary 3  Rotary 4  Rotary	tool 20_175	10 ☐ Digging 11 ☐ Other		(-)c	くとつ	1	17569	96
		i Well Contractor's Lic	ence No.	ata 58	Contracctor	59-62 Date	received	63-63
Name of Well Con	Water Supply Ltd.	1558	ONIC	ource ate of inspection	155	S SI	EP 15	1997
Address Page Box	x 490 Stittsville,	Ontario K2S lA	6    IS		, inisp			
Name of Well Ted	chnician	Well Technician's Lic	ence No.	emarks				O.
S. Mill Signature of Fect	er/W. Kavanagh miglan/Contractor	T0097/T009 Submission date						-71
[ /h/ /	wance !	day 8 mo 8	yr 97  ≥					



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Municipality	Con.		
15003	CON	1	ļ
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0506 (07/94) Front Form 9

		1 2		295/5	Con block tract sur	rvev. etc. Lot 25
County or District  Ottawa Carle	at on	Township/Borough/City/T			Con block tract sur	23
Official Cort	<u> </u>	Address			Date	doz o oz
**·	U Zone Ear	850-36 Antares		Nepean Ontai	Basin Code ii	d 27day 8 month 97 ye
2	M 10 12	17 18	24 25		31	
	LOG O	FOVERBURDEN AND BEDF	ROCK MAT			Depth - feet
General colour	Most common material	Other materials		General	l description	From To
Brown	SAnd, Loom	Stones		Fil	1	0 6
Brown	Sand ,Clay					6 10
Gray	Hardpan	Boulders				10 20
Gray	Gravel	Gray Sand	3			20 22
-	Limestone					22 87
Gray	Libescone					
		<u></u>				
				<u></u>		
				<u></u>	·	
				<u> </u>	· · · · · · · · · · · · · · · · · · ·	
1						
2 10 14 15	21	32	43	54		75
WATER	R RECORD 51 Inside	CASING & OPEN HOLE Wall	RECORD Depth -		· –	
- teet	Kind of water diam inches	Material thickness inches	From	To Material a	and type	Depth at top of screen
<sup>10-13</sup>   1 ☐ Fre 2 ☐ Sa	esh 3   Sulphur   5 1 10/4	Steel 12 Galvanized • 188	0	27   0		feet
<u> </u>	esh <sup>3</sup> ☐ Sulphur <sup>19</sup>	3 ☐ Concrete 4 ☐ Open hole 5 ☐ Plastic			DI LICCINO 9 SEA	
2	esh S Gas 17-18	1  Steel		20-23	PLUGGING & SEA Annular space	☐ Abandonment
2 🗍 Sa	alty 6 □ Gas	2 ☐ Galvanized 3 ☐ Concrete 4   Open hole	27	Depth set at From	- feet To Material and type	e (Cement grout, bentonite, e
25-28         Fre	esh <sup>3</sup> Sulphur <sup>29</sup>	5 Plastic	21	27-30	20 <sub>25</sub> Grouted	Cemeta (5)
2 ☐ Sa 30-33	6 Gas 34 60	1 ☐ Steel 26 2 ☐ Galvanized 3 ☐ Concrete				
¹ ☐ Fre	4 □ Minorals	Open hole Plastic	30	87	30-33 B0	
Pumping test metho	od <sup>10</sup> Pumping rate <sup>11-14</sup>	Duration of pumping	· ·	<u> </u>	CATION OF WELL	
Pump 2 R	Bailer 15GPN	1 Hours Mins	4-	n diagram below show	distances of well from	າ road and lot line.
Static level end o	of pumping water levels during ,	Pumping <sup>2</sup> Recovery  45 minutes 60 minutes		Indicate north by arrow	<b>'.</b>	į
	22-24 15 minutes 30 minutes 29-3	32-34 35-37		Poplaru	5000	
17 feet 2	22 feet 22 feet 22 feet 38-41 Pump intake set at	et 22 feet 22eet  Water at end of test		*	×	
	GPM fee			1 14'8'	131	
Recommended pum    Shallow	pump setting	pump rate				
50-53	60 fee	GENI				3
INAL STATUS O		t supply <sup>9</sup> 🔲 Unfinished			ì	5-
<ul> <li>2  Observation w</li> <li>3  Test hole</li> </ul>	vell 6 🗌 Abandoned, poor qualit 7 🗎 Abandoned (Other)			<b>!</b>	<b>‡</b>	3
4 🔲 Recharge wel	8 Dewatering			<b>\$</b>	<b>†</b>	
VATER USE	55-56  5 Commercial	9 🗌 Not used		Lot * 3	1	3
2 ∰ Stock 3 ☐ Irrigation	<ul> <li><sup>6</sup> ☐ Municipal</li> <li><sup>7</sup> ☐ Public supply</li> </ul>	10 🗍 Other		,,,		
4 🗌 Industrial	8 Cooling & air condition	ing				
METHOD OF CON						
2 🚰 Rotary (con🕶	Air percussion 0-3	_ D.999				183312
3	se) 7 🗍 Diamond 8 🗍 Jetting	11				TOOTE
		Well Contractor's Licence No.	Data	58 Contracctor	59-62 Date	received 63-68
Name of Well Contracto			Source	<u> </u>	<b>558</b>	SEP 1 5 1997
Capital Wat	er Supply Ltd.	1558	Date o	of inspection	Inspector	
P.O. Box 49	Stittsville,Ont	Well Technician's Licence No.	<b>│                                    </b>	rks		<u></u>
		T0097/T0095	VISTR			The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s
Signature of Technician	Contractor	Submission date				

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County or District	1		Township/I	Borough/City/	Town/Village	9		Con blo	ck tract surve	ey, etc. Lot	25-27
				Goulbo	ourn				9	,,	23
			Address						Date completed.	1 day 10 mg	
				Northing		RC Box	1,3000 <sub>F</sub>	Basin Cod		I day I O mo	iv
21	M 10	12	Ontario	K2K	2 <b>A</b> 6	25 26	1 30	31			47
		LOG OF O	/ERBURDE	N AND BED	ROCK MA	ATERIALS (	see instru	ctions)		Do	oth – feet
General colour	Most common materia		Oth	er materials			Gene	ral description	1	From	To
	_							<b>.</b>			
Brown	Sand		— Stone	es (Sha	le)		- Pacl	ked		0	6
Gray	Limestone									6	20
Gray	Limestone						- HArc	ð		20	48
Gray	Limestone						Med:	ium		48	79
Brown	Limestone						Med:	ium		79	141
							Med:			141	165
Gray —	Limestone							-			
Brown	Limestone			-			Med:			165	172
Gray	Limestone						Med	ium		172	190
						-					
											<u> </u>
31			النبا ا	Lista							لا ليلي
32					الليا ال		54		65		75 80
41 WA	ATER RECORD	51	CASING &	OPEN HOL			/CI-4.4	of opening	31-33 Diamete	r <sup>34–38</sup> Leng	th 39-40
Water found at - feet	Kind of water	Inside diam inches	Material	Wall thickness inches	From	feet To				inches	feet
	☐ Fresh <sup>3</sup> ☐ Sulphur <sup>14</sup> ☐ Solby <sup>4</sup> ☐ Minerals	6 1/4	Steel <sup>12</sup> Galvanized	.188	0	22.5	Materi S	ial and type		Depth at top	41-44
144/	☐ Salty 6 ☐ Gas ☐ Fresh 3 ☐ Sulphur 19		Concrete Open hole							<u></u>	feet
2	☐ Salty 6 ☐ Gas		Plastic  Steel			20-23	61		ING & SEAL	NG RECOF	
20-23 1	☐ Fresh <sup>3</sup> ☐ Sulphur <sup>24</sup> ☐ Minerals ☐ Salty <sub>6</sub> ☐ Gas	2 [	Galvanized Concrete				Depth set	N	ace laterial and type (0		
	T Free STED ulphur 29	5 <u>15</u> ; x	Open hole Plastic		22.5	190	From 10–13	14-17			
2	☐ Salty <sup>4</sup> ☐ Minerals ☐ Gas		Steel <sup>26</sup> Galvanized			27-30	23.	Q <sub>-25</sub> G	routed C	ement (:	3)
	☐ Fresh <sup>3</sup> ☐ Sulphur <sup>34</sup> 60 ☐	3 [	☐ Concrete ☐ Open hole				26-29	30-33 80			
	☐ Salty 6 ☐ Gas	5 [	Plastic					<u> </u>	l		
71 Pumping test	1	11-14 D	uration of pumpi Hours		$\parallel$ $\checkmark$			OCATION (			
Chatia Issuel	Water level end of pumping Water levels of			Recovery	$\  \mathbf{A} \ $		n below sho		of well from t	oad and lot	line.
1.			15 minutes	60 minutes 35-37			•	welly	n Rd		
H Confeet	46 feet 3 deet	AA feet	_	46 feet	17 -		. , , ,				<del>.</del>
SA feet  If flowing give  Recommende	rate 38-41 Pump intake set	at v	Vater at end of te	:51		1			. 4	se.	
Recommende	GPM Recommended		☐ Clear Recommended	Cloudy	1				Woods	,es	
☐ Shallow	Deep pump setting	140 <sup>feet</sup>	ump rate	5 GPM	]				(A)	<u>ن</u>	
50-53		140					14 40				
FINAL STATU	upply 5 Abandoned,		ply <sup>9</sup> ☐ Unfinis <sup>10</sup> ☐ Replac	shed		<sup></sup>	e, — .				
2 ♣ Observa 3 ☐ Test hole 4 ☐ Recharg	le <sup>7</sup> 🔲 Abandoned (	Other)	- Д Порис			and a		1	2'3"		
Hecharg						poor			1411		
WATER USE	55-56 tic <sup>5</sup> 🗌 Commercial		9 ☐ Not us	ed		7	Dase		1		
t ☐ Domest Stock Irrigatio	on 7 🔲 Public suppl		□ Dther.			g	ى,	, ACCO	1		
4 🗌 Industri	ial 8 🗌 Cooling & air	conditioning				4		est Go	ove Pr		<del></del>
	CONSTRUCTION 57		9 D-1-1-1-			Popla	1 01				
1 ☐ Cable to 2 <b>X</b> Rotary 3 ☐ Rotary	(colonia)  5 Air percussion 6 Boring (reverse)	on 0-20	9 Driving 10 Diggin			V				1832	257
3 ☐ Hotary 4 ☐ Rotary			U Otner								'
			Well Control	or's Licence No	Dat	a	58 Contraco	tor _	59-62 Date re	eceived	63 68 80
Name of Well Cor						irce		558			1997
Capital V	Water Supply Ltd.		1558		Dat Dat	e of inspection		Inspector			
P.O. Box Name of Well Tex	490 Stittsville	<del>,Ontari</del>	Well fechnic	A Licence No	A Ser	marks					<u> </u>
1			TOO97/T		MINISTRY USE					(	14,
Signature of Tech	r/W. Kavanagh Inician/Contractor		1		Z						-3-
L			dav2] mo	10 yr97	ــــــالــ				<u> </u>	0506 (07/94)	Front Form 9

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0506 (07/94) Front Form 9

		1 2		10 14 15	22 23
County or District		Township/Borough/City/To	own/Village	Con block tract surve	· L
Ottawa Ca	arleton First name	Goulbourn Address		Date	24
•	Dimensions Inc	850-36 Antare	s Dr.	Nepean Ontario K2E 7W5	4 day 12 month 97
21	<sub>ម</sub> ុZone Ea	sting Northing		RC Elevation RC Basin Code	ii iv _ii_i_i_ii
2		F OVERBURDEN AND BEDF	ROCK MA	25. 26 30 31	
General colour	Most common material	Other materials		General description	Depth – fee
	_			Fill	0
Brown	Sand				5 1
Brown	Hardpan	Boulders		Packed	11 13
Gray	Limestone			Hard	132 14
Brown	Limestone			Soft	132 15
Water found at – feet  10-13	135   21   15   15   16   16   16   16   16   1	2   Concrete 3   Concrete 4   Open hole 5   Plastic  1   Steel   19 2   Galvanized 3   Concrete 4   10   Open hole 5   Plastic	E RECORI Depth From O	To  22-25  Material and type  61  PLUGGING & SEAL  20-23  Depth set at - feet From To  10-13 1-17  Material and type (6)	Depth at top of screet
Pumping test r 71 Pumping test r 71 Pump 2 Static level 19-21 12 feet If flowing give Recommende Shallow 50-53  FINAL STATL WO Observa	□ Salty 6 □ Gas  method 10 Pumping rate 11- 10 GP  Water level end of pumping 22 24 15 minutes 26 28 30 minutes 26 28  60 feet 34 feet 47 fe 7 fe 7 fe 7 fe 7 fe 7 fe 7 fe 7 f	M		LOCATION OF WELL In diagram below show distances of well from Indicate north by arrow.	road and lot line.
WATER USE Domest Stock Industri  METHOD OF Cable to Rotary Rotary Rotary	pe well 8 Dewatering  55-56  tic 5 Commercial Municipal n 7 Public supply al 8 Cooling & air conditio  CONSTRUCTION 57  ool 20—1455 Air percussion 0—2  (conventional) Conventional Boring (reverse) 7 Diamond			Poor Flewellyn Rd	
Name of Well Cor	ntractor	Well Contractor's Licence No.	Dat	a 56 Contracctor 59-62 Date	eceived 63
	Water Supply Ltd.	1558	ONIC Sou	1558	AN 0 8 1998
I .			OSE Dat	te of inspection Inspector	
Name of Well Tec	er/W. Kavanagh	Well Technician's Licence No.  TO097/T0095  Submission date  day5 mo 12 yr 97		marks	K

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Municipality	Con.	09
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County or District		Township/Borough/City/Towr	n/Village	Con block tract surv	rey, etc. Lot	25-27
Ottawa Ca		Goulbourn Address		Date		48-53
	Dimensions Ltd.	850-36 <b>Afi</b> tares	Dr. Nepean	Ontario K2E 7W5	Zolay mont	th 97ear
21	⊔ Zone Easti	ng Northing	RC Elevatio	n RC Basin Code	; _ <u>i                                  </u>	iL_
2	LOG OF	OVERBURDEN AND BEDRO	CK MATERIALS (se	e instructions)		
General colour	Most common material	Other materials		General description	From	h – feet To
	Cond & Shones			Fill	0	3
Brown	Sand & Stones			Dry	3	9
Brown	sandy Clay				9	33
Gray	Limestone			Medium	33	125
Gray	Limestone				- 33	127
				,		
				4		
						·
						. 1.1
31					<u>                                     </u>	-    -
32	14 15	CASING & OPEN HOLE R	43 PECORD	Sizes of opening 31-33 Diamet	er 34 38 Length	75
Water found	TER RECORD 51 Inside diam	Wall Material thickness	Depth - feet	(OI - N - )	inches	feel
at – feet	Fresh 5 Sulphur 14 inches	1 D Steel 12 100	from To 0 44 16	Material and type	Depth at top of	screen 3
85 -	Salty 6 Gas	Galvanized Concrete Open hole		<u> </u>		feet
101 2	☐ Salty 6 ☐ Gas	5 ☐ Plastic	20-23	61 PLUGGING & SEA	ING RECORD	
20-23	resh 4 Minerals	Galvanized		Depth set at - feet Material and type	(Cement grout, ben	
1 -	Fresh 3 Sulphur 29 5 15	Open hole	44 125	From To Water at 18 4, 17	- Cement	
1	6 Li Gas	Steel 26 Galvanized Concrete	27-30	18-21 22-25	- CURCIIC	
	☐ Fresh 3 ☐ Sulphur 34 60 ☐ Minerals ☐ Salty 6 ☐ Gas	Open hole Plastic		26-29 30-33 80		
Pumping test n	nethod 10 Pumping rate 11-14	Duration of pumping		LOCATION OF WELL		
71 <sub>1</sub> Pump <sub>2</sub>	Bailer 15 GPM		In diagram b	pelow show distances of well from	road and lot lin	
Static level	end of pumping Water levels during 122-24 15 minutes 30 minutes	Pumping 2 Recovery  45 minutes 60 minutes	Indicate nor	th by arrow.		1
LES	26-28 29-31	32-34 35-37 16 feet 16 feet				1
19 21 12 feet 11 flowing give Recommended	rate 35-41 Pump intake set at	Water at end of test 42			side	
Recommender	GPM feet d pump type Recommended 43-45				>5.0	
☐ Shallow	Deep pump setting 90 feet	5 GPM	Lot#27			
FINAL STATU	IS OF WELL 54			11'7"		
, ₩ater su 2 🚺 Observa	upply 5 ☐ Abandoned, insufficient s tion well 6 ☐ Abandoned, poor quality	supply 9 Unfinished 10 Replacement well		11'3" P		Poplarwood
3 ☐ Test hole 4 ☐ Recharg			H	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		3
WATER USE	55 56	₀ □ Not used	v	eranda to		J'A
ı ☑ Domest ₂ ☐ Stock ₃ ☐ Irrigation	ic 5 ☐ Commercial 6 ☐ Municipal n 7 ☐ Public supply	10 Cther	G	مدد		0
₄ ☐ Industria		g		+P		12
METHOD OF	CONSTRUCTION 57	n				
Cable to Cable to Rotary ( Rotary ( Rotary (	convertional) 5 Air percussion 0.44 (convertional) 6 Boring (reverse) 7 Diamond	10 Digging	Flee	wellyn-Road.	18279	q
₄ ☐ Rotary (	(air) 8 Detting				10213	<u> </u>
Name of Well Con	ntractor	Well Contractor's Licence No.	Data 5		received	63-68 OO Q
<u>Capital</u>	Water Supply Ltd.	1558	No Deterof ingression	Inspector	IAN 0 8 1	998
	490 Stittsville,Ont	ario K2S 1A6	nsi			
		Well Technician's Licence No.	Remarks			$\mathcal{N}$
S. MILLS Signature of Techn	er/W.Kavanagh	TOO97/TOO95 Submission date	<b>¥</b>			` \
Signature yr regin	ntelan/Contractor	day 24 mo 12 yr 97	Ś			-

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Mark correct box with a checkmark, where applicable.

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Municipality	Con.	109
1000		22 23 2

Sauta de District		Township/Borough/City/To	own/Village	Con block tract s	urvey, etc. Lot	25 -2
ounty or District  Ottawa Carl	leton	Goulbourn		9		23
vner's surname	28-47 First name	Address		Date	ted _	48-5
echnical I	)imensions <sub>u Zone</sub> E	850-36 Antares	Dr. Nepean On		I Boay 1 2 mic	onth <b>o 7 yea</b>
1	T	1 17 18	24 25 26	30 31		<u> </u>
2		F OVERBURDEN AND BEDR	OCK MATERIALS (see		Dei	oth - feet
General colour	Most common material	Other materials		General description	From	To
	Handra	Slab Rocks		Fill	0_	20
ray	Hardpan	SIGD ROCKS		Hard	20	54
iray	Limestone			Medium	54	83
ray	Limestone					128
ight Gray	Limestone				83	
Brown	Limestone			Soft	128	147
ray	Limestone			Soft	147	200
a dy	Little Colle				_	<del> </del>
31			, , , , , , , , , , , , , , , , , , ,			
32	FR RECORD 51	CASING & OPEN HOLE	RECORD		meter 34-38 Leng	75 gth 3
Vater found	Kind of water diam	Wall Material thickness	Depth - feet	(Slot No.)	inches	fe
t – feet	Freeh 3 Sulphur 14 inches	inches  Steel 12 .188	Depth - feet	Material and type	Depth at top	of screen
68 2 0	Salty 6 Gas	3 Concrete		with the said		feet
l.n	Fresh 3 Sulphur 19 Salty 6 Gas	4 Open hole 5 Plastic	20 23		<u> </u>	
20-23 1 🗆	Fresh 3 Sulphur 24	2 Galvanized	-	Annular space Depth set at - feet	☐ Abandoni	
	Salty 6 Gas 6 1	/8 G Concrete G Open hole G Plastic	22 200	10-13 14-17	ype (Cement grout, b	
	Salty 4 Minerals 6 Gas	+	27-30	20 4 Groute	ed Cement	(3)
30-33 1	Fresh 3 Sulphur 34 60	3 Concrete		26-29 30-33 80		
2 🗆	Salty 6 Gas	5 Plastic				
Pumping test me	ulou is it displing take	Duration of pumping    15-16     17-18     17-18     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-16     18-		LOCATION OF WELL		
Wa	ater level 25 Water levels during	Pumping 2 Recovery	In diagram be	low show distances of well from the by arrow.	om road and lot	line.
Eri	22-24 15 minutes 30 minute	s 45 minutes 60 minutes		,		
ト リ リ ト ク 7 feet		29-31 32-34 35-37 feet <b>65</b> feet <b>65</b> eet	Pople	arwood		4
If flowing give rat	te 38-41 Pump intake set at	Water at end of test 42				
Recommended p	pump type Recommended	13-45 Recommended 46-49				
	pump setting	pump rate leet 5 GPM				l
50-53	SEWELL STATE					
FINAL STATUS Water supp	olv 5 🗌 Abandoned, insuffici	ent supply 9  Unfinished ality 10 Replacement well	/4			
Observation  Observation  Test hole	7 🔲 Abandoned (Other)	any is a surprise of	11 U .'	30'		
WATER USE  Domestic  Stock	55.56 5 Commercial	₃ ☐ Not used	gp 174	" -		
2 🖰 Stock	6 🗌 Municipal	10 Cther		ť <sub>o</sub> .		
₃ ∐ Irrigation	7 📋 Public supply	oning		G Lat 39		ļ
₃ ☐ Irrigation ₄ ☐ Industrial	7 Public supply 8 Cooling & air conditi	oning	¼	- 16 - Lot 39		
3 ☐ Irrigation 4 ☐ Industrial	7   Public supply 8   Cooling & air conditi			- 16 - Lot 39		
a ☐ Irrigation a ☐ Industrial  METHOD OF Co  , ☐ Cable tool	7 UPUBLIC SUPPLY 8 Cooling & air conditi  ONSTRUCTION 57 120-200 Air percussion O-		1 19	- 1G - Lot 39	10070	<b>1</b>
3 ☐ Irrigation 4 ☐ Industrial	ONSTRUCTION 57    20-200   Air percussion O- oversional) 6   Boring   Dlamond	-20 9 ☐ Driving 10 ☐ Digging	1 2	- 16 - Lot 39	1827	<b>9</b> 5
□ Irrigation □ Industrial  METHOD OF Cool □ Cable tool □ Cable tool □ Cable tool □ Rotary (cool □ Rotary (re □ Rotary (ai	ONSTRUCTION 57  2 0 Air percussion O- mountain G Boring verse) 7 Diamond r) 3 Jetting	-20 9 ☐ Driving 10 ☐ Digging	Data 58		Date received	63-6
Irrigation  Industrial  METHOD OF Co  Cable tool  Rotary (co  Rotary (ai	ONSTRUCTION 57  DONSTRUCTION 57  DONSTRU	9 Driving 10 Digging 11 Other	Data 58 source	Contractor 5 5 8		
Irrigation  Industrial  METHOD OF Co  Cable tool  Rotary (co  Rotary (air	ONSTRUCTION 57  2 0 Air percussion O- mountain G Boring verse) 7 Diamond r) 3 Jetting	-20 9 Driving 10 Digging 11 Other	Source  Date of inspection		Date received	63-6
Irrigation  Irrigation  Industrial  METHOD OF Co  Description  Rotary (cc  Rotary (cc  Rotary (cc  Rotary (cc  Rotary (cc  Rotary (cc  Rotary (cc	ONSTRUCTION 57  ONSTRUCTION 57  ONSTRUCTION 57  Air percussion Onwersion of Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7	9 Driving 10 Digging 11 Other	Source  Date of inspection	Contractor 5 5 8	Date received	63-6
METHOD OF CO    Cable tool   Rotary (co   Rotary (co   Rotary (aii   ONSTRUCTION 57  ONSTRUCTION 57  ONSTRUCTION 57  Air percussion Onwersion of Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7 Diamond 7	-20  9 Driving 10 Digging 11 Other  Well Contractor's Licence No.	Source  Date of inspection	Contractor 5 5 8	Date received	63-6	

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Municipality	Con	
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County or District		Township/Borough/City/T	own/Village		Con block tract s	survey, etc. Lo	t 25 27
Ottava Ca	rleton	Address Address			9		23
		38 Arque Drs	nyi+_2/K	Nonoan Onto	Date comple	ted	onthoo year
21	T 10	K2E 8A5	HC HC	Elevation AC	Basin Code ii	<del></del>	
1 2		TOF OVERBURDEN AND BEDI	ROCK MATER	IIALS (see instructi	ions)		47
General colour	Most common material	Other materials			description		pth - feet
						From	То
Brown	Sandy Clay	Stones		Packe	ed		5
Brown	Sand			Wet		5	23
Gray	Hardpan	Boulders		Packe	ed	<b>2</b> 3	29
Gray	Limestone			Mediu	m Hard	29	115
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			·				
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31							
32						111111	
	TER RECORD 51	CASING & OPEN HOLE	RECORD	Sizes of o	pening 31-33 Dian	neter <sup>34-38</sup> Leng	75 80 th 39-40
Water found at - feet	Kind of water Inside diam inche	Material thickness	Depth - feet From To	(Slot No.)  Material a		inches	feet
	Fresh <sup>3</sup> Sulphur <sup>14</sup> 6 10	Steel 12 Galvanized -188		Material a	nd type	Depth at top	of screen 30
05	Fresh <sup>3</sup> Sulphur <sup>19</sup>	3 ☐ Concrete 4 ☐ Open hole					feet
	Salty 6 Gas 17-	5 Plastic		20-23	PLUGGING & SEA		
1	Salty 6 Gas	2 Galvanized 3 Concrete		Depth set at -	Material and tw	Abandonm	
25-28 1	Fresh <sup>3</sup> Sulphur <sup>29</sup>	" I Flastic	40 11	10-13	14-17		
30-33	Gas Gas 34 60	25 : Steel 26 2 Galvanized 3 Concrete		27-30 39	O Grouted	Cement (8	1
	] Fresh <sup>3</sup> □ Sulphur <sup>34</sup> log log log log log log log log log log	4 ☐ Open hole 5 ☐ Plastic		26-29	30~33 80		
Pumping test m	nethod 10 Pumping rate	11-14 Duration of pumping 17-18					
/1 1 □ Pump 2	Bailer 20 G	GPM Hours Mins	l Indi	LOC iagram below show	CATION OF WELL distances of well from	m road and lot !	ine.
Static level e	Vater level Water levels during	Pumping <sup>2</sup> Recovery		cate north by arrow.		Jose and lot !	
TES	26-28 30 minutes	29-31 32-34 35-37		<b>-</b> \ ^	~		
In feet  If flowing give re  Recommended	16 feet 16 feet 16 ate 38-41 Pump intake set at	feet 16 feet 16 feet Water at end of test 42		Forest C	rove Dr	<u> </u>	<del></del>
Recommended	GPM	feet Clear Cloudy  43-45 Recommended  Glear Cloudy  46-49	18	į	AK 376" -	<del></del>	1
☐ Shallow	Deep X Deep	pump rate	17	604)	×, ×, ×, ·	G	1
50-53		reet g GrM	}	!			1
FINAL STATUS	oply 5 🗌 Abandoned, insuffic	ient supply 9	73	H	صعو		•
<sup>2</sup>	on well  6	uality 10 🗆 Replacement well	3	<u> </u>		1	1
			🛱	•			1
WATER USE  1 Domestic 2 Stock	55-56  Commercial	9  Not used		1	, <u>w</u> on		1
2 1 Stock □ Irrigation □ Industrial	<sup>7</sup> Public supply	10 ☐ Otherioning	'	7	ot #32		
		-		10			
	construction of Air percussion O-	g. ☐ Driving		podside			
<sup>2</sup> <b>X</b> Rotary (c <sup>3</sup> □ Rotary (re <sup>4</sup> □ Rotary (a	everse) <sup>7</sup> 🗌 Diamond	-40 □ Digging □ Other	ا ل <i>ب</i> اد	Soct 6 2		1838	367
- 🗀 Hotary (a	ir) a 🗋 Jetting			`			
Name of Well Contr	ractor	Well Contractor's Licence No.	Data source	58 Contracctor	59-62 Dat	e received	63-68 <b>8</b> 0
Capital W	ater Supply Ltd.	1558	Date of ince	pection III	nspector C	JUL 2 2 1	998
	490 Stittsville, C	ontario KOS 116	USE		•		$\mathcal{C}$
			Hernarks Remarks			100	$\lambda$
S. Miller Signature of Technol	W.Kaganagh cian/Contractor	T0097/T0095 Submission date	SINIE		(	css. s	DA.
LIN Km	~	day <b>29</b> mo <b>5</b> yr <b>98</b>	2			0506 (07/94) F	Front Form 9
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Municipality	Con.					
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ounty or District	<del></del>		Township/B	Borough/City/To	own/Village			COII DIOCK	tract survey	y, etc. Lo	t 25-
Ottawa Car	rleton		Goull Address	bourn					9		25
				est Heio	thto St	ittsvill	a ~	aria	Date completed	<b>9</b> lay 6m	onth <b>Q2</b> ye
1 :			K2S 1C	RST Held 3 Northing	INTS SI			Basin Code	ii .	yay 6m	iv
1	M TO		17	18	24 25	26	30	31			1 1
		LOG OF O	VERBURDEN	AND BEDR	ROCK MATE	RIALS (see in	nstructio	ons)		Da	pth – feet
ieneral colour	Most common mater	rial	Othe	er materials			General	lescription		From	To
	03						Drv			0	6
rown	Sand						- 4	_3			
rown	Sandy Clay						Packe	<u>d</u>		6_	12
ray	Sandy Clay						Stone	ð		12	18
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10 14	15 21 21 ED DECORD	51		OPEN HOLE	RECOPD		Sizes of op	ening 3	65 1-33 Diameter	34-38 Leng	1th
ter found	ER RECORD  Kind of water	Inside	Material	Wall thickness	Depth - fe		(Slot No.)	-······ <b>9</b>		nches	
- feet	Fresh <sup>3</sup> Sulphur <sup>14</sup>	diam inches		inches	From	To Name 22.1355 SS	Material an	d type	"	Depth at top	
	Salty 6 Gas	6 174 ;	Steel 12 Galvanized Concrete	-188	0   2	22.55					41-44 feet
15-18 1	Fresh <sup>3</sup> Sulphur <sup>19</sup> Minerals	4 [	□ Open hole			61		DITIOCINI	G & SEALIN	G PECCE	
	Salty 6 Gas  Gas  Free Strong plophur 24	17-18 1 [	☐ Steel			20-23	<b>J</b> /	Annular space		Abandonm	
	Salty 6 Gas	2 [ 3 [ 4 L			22 5		th set at - 1	feet	rial and type (Ce	ment grout, b	entonite, e
25-28 1 _	Fresh <sup>3</sup> Sulphur <sup>29</sup>	5 1	Plastic		22.5	′³	10-13	14-17		mont /s	. 1
30-33	Gas Gas 34 60	2 [	☐ Steel <sup>26</sup> ☐ Galvanized			27-30	16-21	22-25	uted Cen	•	· <del>/</del>
ם ין	Fresh 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Sulphur 3  Su	4 [	☐ Concrete ☐ Open hole ☐ Plastic			-6	26-29	3 <sub>0-33</sub> Hold	e Plug	(1)	
	- Cas						1				
Pumping test me		20 GPM	Duration of pumping 15-18  Hours	19 Mins				ATION OF			
	Vater level 25 nd of pumping Water levels	s during     F	oumping 2 [	Recovery	l in	diagram below	w show d / arrow.	listances of		ad and lot ! Rol.	line.
19-21		30 minutes 4	45 minutes 6	60 minutes 35-37					<u>one</u>	<u>u 100.</u>	+
30.50		1211 <b>0</b> %t	ng n deet	1 C 1 4 eet							
If flowing give ra	ate 38-41 Pump intake se		water at end of tes								1
If flowing give ra			_								_ [
	GPM	feet	☐ Clear	Cloudy 46-49				-			-   _
Recommended p	GPM	43-45 F		46-49	:			<del>-</del> -			-   g
Recommended p	GPM Pump type Recommended pump setting	43-45 F	Recommended					-			Road
Recommended   Shallow   50-53	GPM Recommended pump setting  Deep SOF WELL 54	30 feet	Recommended fump rate	46-49 <b>5</b> GPM						·	Road
Recommended   Shallow   Shallow   So-53	GPM   Recommended pump setting   Deep   S OF WELL   54   Opiny   S	d 43-45 F	Recommended	46-49 <b>5</b> GPM				70			Road
Recommended of Shallow 50-53	GPM   Recommended pump setting   Deep   S   GF WELL   S4   Deep   S   Abandoned   Abandone	d, insufficient sup d, poor quality d (Other)	Recommended pump rate	46-49 <b>5</b> GPM				700			1yen Road
Recommended   Shallow   O-53   STATUS   Water supple 2   Observation   Test hole 4   Recharge	GPM   Recommended pump setting   Deep   S   GF WELL   S4   Deep   S   Abandoned   Abandone	d, insufficient sup d, poor quality d (Other)	Recommended pump rate	46-49 <b>5</b> GPM				744	2		Wilyen Road
Recommended   Shallow   Sh	GPM   Pump type   Recommended pump setting   Peep   S   Abandoned    d, insufficient sup d, poor quality d (Other)	Recommended pump rate	5 GPM				40	2		Flew Myen Road	
Recommended   Shallow   Sh	GPM   Pump type   Recommended pump setting   S OF WELL   54   Abandoned   Aban	d, insufficient sup d, poor quality d (Other)	Recommended pump rate  puply 9	5 GPM	X	,		744			Flew My on Road
Recommended   Shallow   So-53   WAL STATUS   Water supple 2	GPM   Pump type   Recommended pump setting   Deep   S   Abandoned    d, insufficient sup d, poor quality d (Other)	Recommended pump rate  puply 9	5 GPM	N/A	<b>,</b>		40	2		TFlew Myen Road	
Recommended   Shallow   Sh	GPM   Pump type   Recommended pump setting   Deep   S   Abandoned    d, insufficient sup d, poor quality d (Other) g	Recommended pump rate  puply 9	5 GPM	K	,		, <u>, , , , , , , , , , , , , , , , , , </u>	2		1. P. A. A. A. A. A. A. A. A. A. A. A. A. A.	
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Print only in spaces provided.

Mark correct box with a checkmark, where applicable.

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0506 (07/94) Front Form 9

County or District	t			ip/Borough/City	/Town/Villag	je		Con block	tract survey	, etc. Lo	ot 25 27
Ottawa Co Owner's surname		First name	Address	ulbourn				9	Date		<b>24</b>
Technical	l Dimensions		<b>850</b> -	- 36 Anta	ares Di		an Ontar	io Basin Code	completed	81ay 6 n	nonth <b>Q S</b> vear
21		T III	K2E 7	W5 18	24	25 26	30	L L L L		<u> </u>	1 1 47
Particular of the second of		LOG	OF OVERBURD		DROCK M	ATERIALS	(see instruc	tions)		1 D4	epth - feet
General colour	Most commo	n material	C	Other materials			Genera	d description		From	To
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Gray	Limestor	<b>10</b>		Dark Lay	yers		Medi	un .		9	130
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32					_						ں تیسیہ لا لیلی
41 WA	TER RECORD	51	CASING 8	& OPEN HOL			Sizes of (Slot No.)	opening	65 Diameter	<sup>34-38</sup> Leng	75 80 Jth <sup>39-40</sup>
Water found at - feet	Kind of water	Inside diam inches	Material	Wall thickness inches	From	n – feet To	E		1	nches	feet
	☐ Fresh <sup>3</sup> ☐ Sulphur ☐ Salty <sub>6</sub> ☐ Gas	6 17	Steel 12 2 Galvanized 3 Concrete	-188	0	22:4	Material	and type		Depth at top	feet
15-18 1	☐ Fresh <sup>3</sup> ☐ Sulphur 4 ☐ Minerals ☐ Salty 6 ☐ Gas	19	4 ☐ Open hole 5 ☐ Plastic				61	PLUGGING	G & SEALIN	G RECOE	
20-23	Fresh STED lphur	24 17-18 S	1 Steel 19			20-23		Annular space		Abandonn	
	Salty & Minerals Gas  □ Fresh 3 □ Sulphur	6 1/	Concrete Open hole Plastic		22.4	30	From	To Mater	rial and type (Cer		
2	☐ Salty 6 ☐ Gas	S 24-25	1 Steel 26 2 Galvanized	3		27-30	21	3 Gro	uted <u>-</u> C	ement	(6)
1 C 2 C	☐ Fresh <sup>3</sup> ☐ Sulphur 4 ☐ Minerals ☐ Salty <sub>8</sub> ☐ Gas	5 7/8	3 Concrete 4 Open hole 5 Plastic		30	130	26-29	30-33 80			
Pumaina test m		ig rate		ping 17-18	][			CATION OF			
	Water level 25	15 GP er levels during		s Mins  2  Recovery	15x	ın diagram	n below show	distances of		ad and lot	line.
6	end of pumping 22-24 15 minu		45 minutes	60 minutes	^^	. Indicate n	orth by arrow.				
18 feet  If flowing give r  Recommended			eet <b>25</b> feet	25 feet		يسبسد	<del></del>	10			
If flowing give r	rate <sup>38-41</sup> Pumpii GPM	ntake set at fe	Water at end of t	test <sup>42</sup>	]  -	1 10	rest Gr 17	<u> </u>	T		
1-1	pump s	mended 43- etting	Recommended pump rate	46-49		1	17	16"	1		
☐ Shallow 50-53	Deep X	75 fe	et	5 GPM	]		_		1		
FINAL STATU	noly 5 Abi		nt supply <sup>9</sup> Unfin	ished					1		
2 Observati 3 Test hole 4 Recharge	. '∐ Aba	andoned, poor qual andoned (Other) watering	ity ¹º □ Repla	acement well			1-louse		1		
WATER USE		55-56			-				1		
Domestic	c <sup>5</sup> □ Col	mmercial nicipal	9 ☐ Not u	sed		1	) <del>}</del>				
3 ☐ Irrigation 4 ☐ Industrial	, , , , , , , , , , , , , , , , , , ,	blic supply oling & air condition				F-	ot #24				
METHOD OF C	CONSTRUCTION	57	<u> </u>								
Cable too	ol 30—130 5 Air aconventional) 6 Box	percussion <b>0-3</b> ring		ng						1838	
3	reverse) 7 🗍 Dia air) a 🗎 Jet	ting	□ Uther	<b></b>	] [				<u> </u>	TO 2 (	, o s
Name of Well Contr	ractor		Well Contrac	tor's Licence No.	> Data		58 Contracctor	<b>*</b> 0	59-62 Date recei		63-68 80
Capital V	Water Supply	y Ltd.	1558	}	Sour	of inspection	15	nspector	JUL	5 5	998
1	490 Stitte		n <del>tario K</del> 2	2 <del>S. 1A6</del>							<i></i>
ł					MINISTRY	narks			000	<u></u>	$\mathcal{N}$
Signature of Techni	Kavanac iclan/Contractor	J#1	Submission of		Ä				CSS.	.59	r_7

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Ministry of Environment and Energy

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Municipality	Con.			_	_
15003	CON	1 1		0	9
10	15		22	23	24

ounty or District	_			Goulbou			Con bio	99	, etc. Lot	24
			Address					Date completed		48-
			P.O. P	Northing	Greely,	Ontario Elevation	RC Basin Code		Lay 8 mon	nth <b>96</b> e
	т м 10		17	18	24 25	26	30 31			
		LOG OF OV			ROCK MATE	RIALS (see i			Dept	th – fee
eneral colour	Most common mater	ial	Oth	er materials			General description	1	From	То
Brown	Sand		Sto	ones			Dry		0	
	Hardpan		Boi	ılders_			Panked		5	1
Brown				ılders			Packed		16	2
Gray	Hardpan						Hard		25	_10
Gray	Limestone									
								·		
							·			
1 1 1			 []	1.1.1.		1,1,1,1			1   1   1	1 1
<u>'</u>			. <del></del> 	<del>                                     </del>	<del>                                   </del>					ЦL
10	ATER RECORD	51	CASING &	OPEN HOLI	RECORD		Sizes of opening	31-33 Diameter	34-38 Lengti	75 h
ater found - feet	Kind of water	Inside diam	Material	Wall thickness	Depth - fe	To Z	(Slot No.)	i	inches	
10-13 1	☐ Fresh <sup>3</sup> ☐ Sulphur <sup>14</sup> ☐ Minerals	inches 6 1°/4 5	Steel <sup>12</sup> Galvanized	inches .188	0	To NEW NEW NEW NEW NEW NEW NEW NEW NEW NEW	Material and type		Depth at top o	of scree
	☐ Salty B☐ Gas ☐ Fresh ☐ Sulphur 19		Concrete							feet
103	☐ Salty 6 ☐ Gas	17-18 1	Plastic			20-23		ING & SEALIN	G RECOR	
1 . 4	Hestr 4 Minerals  Salty 6 Gas						Annular sp	faterial and type (Ce		
1	☐ Fresh <sup>3</sup> ☐ Sulphur <sup>29</sup>	6 1/8; 5	Open hole Plastic		40	- Joint	10-13 14-17			
	☐ Salty 4 ☐ Minerals 6 ☐ Gas	2	Steel <sup>26</sup> Galvanized			27-30	39 <sub>18-21</sub> Q <sub>-25</sub>	G <del>routed C</del>	ement (	<del>)</del>
1	☐ Fresh <sup>3</sup> ☐ Sulphur <sup>34</sup> ☐ Minerals ☐ Salty 6 ☐ Gas	1 11:5	Concrete Open hole Plastic		50	105	26-29 30-33 80			
Pumping test			oration of pympi	ing			LOCATION	OE WELL		
¹ ☐ Pump ²	☐ Bailer	15 GPM		Mins	i i	n diagram bel	LOCATION ow show distance		ad and lot li	ine.
Static level	Water level end of pumping Water level		umping 2 15 minutes	Recovery	ir	ndicate north	by arrow.			4/
feet If flowing give	22-24 15 minutes 26-28	30 minutes 4	32-34	60 minutes 35–37						V
g feet If flowing give	rate 10 feet 10 feet Pump intake s	et at 10 feet	10 feet Vater at end of te	10 feet						
Recommende	GPM	feet 43-45 R	☐ Clear Recommended	Cloudy	OF.	rest G	101C			
□ Shallow	pump setting	p	ump rate	<b>5</b> GPM	1 1		1 Lot 3	4	1	
50-53		75 feet					1	•	1	
□ Water s		ed, insufficient supp	ply <sup>9</sup> ☐ Unfinis	shed	3		1	<u> </u>	- !	
2 X Observa 3 Test hol	ation well 6 1 Abandone le 7 1 Abandone	ed (Other)	™ ∐ Replac	sement wen			!		1	
4 ☐ Recharg							· ·		i	
ATER USE  ¹ ☐ Domest	55–56		9 🗆 Notus				1		أبير	
2 Stock 3 Inrigatio			10 Utner					36	6	
4 🗌 industri								196" 💃		
	CONSTRUCTION 57 tool On Air percus (con501056 Boring	ssion 0-50	9 🔲 Driving							
3 🗌 Rotary	(reverse) 7 🗌 Diamond	<b>U-3</b> U	to ☐ Diggin	ng 					1947	0
4 🗌 Rotary	(air) 8 🗌 Jetting				]					
Name of Well Co			Well Contract	tor's Licence No.	<b>∑</b> Data source		Contracct 5 5 8	59-62 Date red		1998
	al Water Supply	Ltd.	1558		Source Date of	f inspection	Inspector	<b>)</b>   UU	13	1770
<del>, Capita</del>							1			
			stario K	2S 1A6	S	1				
Name of Well Tec	Box 490 Stitts	ville, Or	1 .		Remar Remar	ks			, E00	
Name of Well Ted		ville, Or	Well Technici TOO97/T		MINISTER STATES	ks		css	S. ES9	9 (



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٦	County or District		Township/Borough/City/	Town/Village	Con block tract s	urvey, etc. Lot 25-27
	D# "	en-Carloton	Address POST	Carletin	Date comple	ted 2 7 78
	0 ا		Northing	RC Elevation	RC Basin Code 😁 🖟	day month year
  - 	2	M 10	G OF OVERBURDEN AND BEL	DROCK MATERIALS (see	instructions)	Porth foot
	General colour	Most common material	Other materials		General description	Depth - feet From To
	0 Kcy	1, mestage	Doopered			82 150
-	2 1			· ·		
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$\vdash$			42	:		
-						
<u> </u>	1	2-1-1 3-1		-		
					y and	
						****
Ļ	31   , , ,					
	32				54	35 75 80
- H		TER RECORD 51	CASING & OPEN HO	Depth - feet	(CI-4 No.)	meter 34-38 Length 39-40 inches feet
	Water found at - feet	Kind of water dia inc	m Material thickness inches	Pepth - feet From To 13-16	Material and type	Depth at top of screen 41-44
	114 2	Fresh 3 Sulphur 19	2  Galvanized 3  Concrete 4  Open hole			feet
	2 [	☐ Salty 6 ☐ Gas	5 □ Plastic   19   17	20-23	PLUGGING & SE	Abandonment
		☐ Salty 6 ☐ Gas	2 Galvanized 3 Concrete 4 Open hole		repth set at – feet  From To  Material and t	ype (Cement grout, bentonite, etc.)
		☐ F[esh <sup>3</sup> ☐ Sulphur <sup>29</sup> ☐ Salty <sup>4</sup> ☐ Minerals ☐ Gas	5	27-30	18-21 22-25	
	30-33	☐ Fresh <sup>3</sup> ☐ Sulphur <sup>34</sup> <sup>60</sup> ☐ Salty <sup>6</sup> ☐ Gas	3 Concrete 4 Open hole 5 Plastic		30-33 80	
į	Pumping test r		11-14 Duration of pumping 17-18		LOCATION OF WELL	
	71 Pump 2	Bailer Water level	GPM Hours Mins	In diagram bel	low show distances of well fr	1
		end of pumping value levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels during the levels du			by arrow.	
	TSAIGM If flowing give	7 Carrious	feet 6 feet 6 fee			
	If flowing give	. GPM	feet Clear Cloudy  49-45 Recommended  46-46	9		
	Recommende	pump setting	pump rate / OGPM	<u>"</u>		<b>, x</b>
	FINAL STATU	IS OF WELL 54		- Minsty	SKM	100
	1 Water su 2 Observa 3 Test hole	upply 5 Abandoned, insulation well 6 Abandoned, pool	fficient supply <sup>9</sup> ☐ Unfinished r quality <sup>10</sup> ☐ Replacement well er)		\\	***
	4 🗆 Recharg		1		Flav	ellyn
	WATER USE  1 Domest 2 Stock	55-56 tic 5 Commercial 6 Municipal	9 ☐ Notused 10 ☐ Other	Ga	ula	•
	3 ☐ Irrigatio	n / D Public supply		GI	rent	
A. T.	METHOD OF	CONSTRUCTION 57			$H_{i}$	4-
N. A. A. A. A. A. A. A. A. A. A. A. A. A.	1 ☐ Cable t 2 ☐ Rotary 3 ☐ Rotary	(conventional) Boring	9 ☐ Driving 10 ☐ Digging 11 ☐ Other			192750
	4 ☐ Rotary	(air) 8 🗇 Jetting				
	Name of Well Co	ntractor	Well Contractor's Licence I	No. Data 58 source	Contracctor 59-62 (	Date received 63-68 80
	Address	HOCK PRIME	D. L	Date of inspection	Inspector	
	Name of Well Ted	chnician	Well Technician's Licence	No. Remarks	*	CSS. ES9
	Signature of Tech	anition Put cel	Subiliasion date	No. ALSINIW		
	1 1 22	ine &	- 133 007 4yis	<u> </u>		0506 (07/94) Front Form 9

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Municipality	Con.	ı	_	^	
12003	CON		0	9	
10 14	15	20	22	24	

County or District	·	Township/Borough/City/	Town/Village		Con block tract survey, etc. Lot 25-27					
OttoWA Ca	arloton	Goulbourr Address	1		<b>Q</b> Date		24			
		Technical Dis	ension		completed	22ay 2 mo	nth <b>99</b> rea			
21	T 10 12	Nepean Northing Ontar	:ioK2	RC 7W5 RC	Basin Code ii	iii 	iv 			
		F OVERBURDEN AND BED		TERIALS (see instruc			4/			
General colour	Most common material	Other materials	!	Genera	al description	Dep From	th – feet To			
Brown	Sand	Gravel		Back:	ei 11	0	q			
_	Hardoan	Gravel		Pack	_	3	6			
Gray		GLGVET		Media		6	74			
Gray	Limestone			Media		74	123			
Dark Gray						'-				
Ligh Redd				Medi		123	140			
Gray	Limestone			Medi	UKO	140	200			
31   , , ,						<u>                                     </u>	1 . 1 1			
32	<u> </u>			<del>╶╏╻╏╻╏╻╏╻</del>	,		اللل			
10 14 15 41 WATE	R RECORD 51	CASING & OPEN HOL	E RECORD			34-38 Length	75 8 39-40			
Water found at - feet	Kind of water lnside diam inches	Wall Material thickness inches	Depth -		ir	nches	feet			
!2 □ 9	Fresh 3		0	25 <sup>16</sup> Material	and type	Depth at top o	f screen 41-44			
15-18 1 D F	Fresh <sup>3</sup> Sulphur <sup>19</sup>	3 ☐ Concrete 4 ☐ Open hole 5 ☐ Plastic					feet			
165 ° 0 5	Salty 6 Gas	¹ ☐ Steel 19		20-23 61	PLUGGING & SEALIN  Annular space	G RECORE  Abandonme				
195 2 0 5	Salty 6 Gas 5 7/8	2	25	Depth set at From	- feet Material and type (Cer	ment grout, ber	ntonite, etc.			
	resit Suls Diphur 29 Salty   Minerals 24-25	4 © Open hole 5 ☐ Plastic 1 ☐ Steel 26		27-30 23-5		iole Pl	wa (4			
30-33 1 G	Fresh <sup>3</sup> Sulphur <sup>34</sup> <sup>60</sup>	2 Galvanized 3 Concrete		26-29	30-33 80					
2 🗆 5	4 ☐ Minerals Salty 6 ☐ Gas	4  Open hole 5  Plastic			30-33					
Pumping test metr	, ,	15-16 17-18	-1	LO	CATION OF WELL					
Statis lavel Wat	ter level 25	☐ Pumping 2 ☐ Recovery		Indicate north by arrow	distances of well from roa		ie.			
	22-24 15 minutes 30 minutes 29-31	45 minutes 60 minutes 35-37	<del>- ,</del>		Poplaruso	<u>d</u>	_			
世 <b>22</b> feet	60 feet 40 feet 5]fee				Poplaruso Woodside Acr	,				
22 feet 2 feet If flowing give rate Recommended pu	Pump intake set at  GPM fee	Water at end of test  t ☐ Clear ♣ Cloudy			Moodside	- -				
	pump setting	Recommended 46-49 pump rate			Acr					
☐ Shallow ★	150 feet	5 GPM					19			
FINAL STATUS		supply 9   Unfinished	١٩		Lot #40 House #21		8			
<ol> <li>Water supply</li> <li>Observation</li> <li>Test hole</li> </ol>	well <sup>6</sup> Abandoned, poor quality <sup>7</sup> Abandoned (Other)		ZON	ļ	rot =10		Flewellyn Road			
4 ☐ Recharge we	ell <sup>8</sup> Dewatering		9	House	House #21		7			
WATER USE  Domestic Stock	55-56  5 Commercial	9 🗌 Notused	4				1			
2	6 ☐ Municipal 7 ☐ Public supply 8 ☐ Cooling & air conditionir	10 Other	ll .ğ	* Gar	rage		ا م			
		-5	-				1 L			
METHOD OF CO  1	NSTRUCTION 57 25-200 Air percussion 0-2 Perdonan 0-2	5 9 Driving					\			
2 📅 Rotary (conv 3 □ Rotary (reve 4 □ Rotary (air)	erse) <sup>7</sup> 🗌 Diamond	10 Digging 11 Other			-	1948	23			
Tiotary (all)	• C Jetting									
Name of Well Contract	tor	Well Contractor's Licence No.	∑ Data source	58 Contracctor			63-68 8			
Address Pital	Water Supply Ltd.	1558	Source Date o	f inspection	58 APR	1 2 19	199			
P.O. Box	490 Stittsville, (	Ontario K2S 1A6 Well Technician's Licence No.	sn	ks						
	_	TOO95	NININININININININININININININININININI		C	SS.ES9	)			
Mayani Manufacture of Technician	n/Contractor 0	Submission date	Z							
gralle	stavanigh	day23 mo 2 yr 99	I <b>L</b>		(	0506 (07/94) Fr	ont Form 9			
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Municipality	Co	n.				
1500	3 C	ON	1 1	1	0	9
10	14 15			22	23	24

County or District		Township/Borough/City/	Town/Village	Con block tract surve	y, etc. Lot 25-27
<u> </u>	Carloton	Address Goulbou	ırn	Date	24
		6 Eagle Rock	Way Stitts	wille Ontario	1 Sey 5 month GGrea
21	Ţ	Northing		evation RC Basin Code ii	lii iv
1 2	10 12	DVERBURDEN AND BED	ROCK MATERIAL	S (see instructions)	
General colour	Most common material	Other materials		General description	Depth - feet
G0,1012 001041					From To
Brown	Sand # gravel			Fill	0 5
_Gray	Limestone			Medium	5 97
Brown	Limestone			Medium	97 147
Gray	Sandstone			Hard	147 177
Stay	Jarkasoone			1302 0	14,
			- 1		
	÷				
31   , , ,					1     1   1   1   1
32					
10 14 WA	TER RECORD 51	CASING & OPEN HOL	E RECORD	Sizes of opening 31-33 Diameter	75 34-38 Length 39-4
Water found at – feet	Kind of water lnside	Wall Material thickness	Depth - feet From To	(Slot No.)	inches fee
10-13 1	Fresh 3 Sulphur 14 inches inches 6 10-1/4.	inches  Steel 12 Gelvanized 188	0 22"	(Slot No.)	Depth at top of screen 41-44
109	Salty 6 Gas	Galvanized Concrete Open hole			feet
1   0 -	Salty 6 Gas	Plastic	20-23	61 PLUGGING & SEALIN	NG RECORD
1 /20-23 IN	O Fresh S 115 Diphur 24	☐ Steel 19 ☐ Galvanized ☐ Concrete		Annular space  Depth set at – feet	Abandonment
1		Open hole Plastic	22 177	From To Material and type (Co	ement grout, bentonite, etc
2	Salty 4 Minerals 24-25 1	☐ Steel <sup>26</sup> ☐ Galvanized	27-30	20 <sub>8-21</sub> 4 <sub>22-25</sub> Grouted	- Cement
30-33	☐ Fresh <sup>3</sup> ☐ Sulphur <sup>34</sup> <sup>60</sup> 3	☐ Concrete ☐ Open hole		26-29 30-33 80	
2	Salty 6 ☐ Gas 5	☐ Plastic			
71 Pumping test m		Duration of pumping 17-18		LOCATION OF WELL	
Statio level V	Water level 25	Pumping <sup>2</sup> Recovery	In diagra	am below show distances of well from ro north by arrow.	oad and lot line.
	22-24 15 minutes 30 minutes	45 minutes 60 minutes	Midicale	TIOIDI BY AITOW.	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		32-34 35-37 3c feet 3cfeet		Flewelyn Rd	
If flowing give r	ate 36 feet 36 feet 9 Pump intake set at 36	Water at end of test		Joods de	, 0
Recommended	GPM feet spump type Recommended 43-45	Clear Cloudy Recommended 46-49	g	il hodside	
□ Shallow	Deep pump setting	pump rate		in wase	7
50-53	200		9	4	1
FINAL STATUS	pply 5 🗌 Abandoned, insufficient su			Lot 2	3
2 Observati	7 🔲 Abandoned (Other)	<sup>10</sup> ☐ Replacement well	9	Z Lot a	
4 ☐ Recharge			[]	n   29'	
WATER USE	55-56  Commercial	<sup>9</sup> ☐ Not used			
Domestic Stock Irrigation	<sup>7</sup> Dublic supply	10 🗋 Other		32'	
4 🗍 Industria	8 Cooling & air conditioning				
	CONSTRUCTION 57	9 🛘 Driving			
1 ☐ Cable too 2 ☐ Rotary (c 3 ☐ Rotary (r	ol 20 1775 Air percussion 0—22 Conventional 7 Boring Ceverse) 7 Diamond	Digging  Other		/	194849
4 🛭 Rotary (a	air) 8  Jetting		<u>                                     </u>		
Name of Well Contr	ractor	Well Contractor's Licence No.	Data	58 Contraccter 59-82 Date rec	eived 63-68
			source	1558 Ju	
,	Water Supply Ltd.	1558	l m	on Inspector	
Name of Well Tech	x 490 Stittsville, On	well fechnician's Licence No.	Nemarks		
So Mille	er	т0097	Remarks	•	CSS.ES9
Signature of Techni	ician/Contracto	Submission date	N		
Mull	en gen anam	day 19 mo 5 yr99	J <u> </u>		0506 (07/94) Front Form
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Municipality	Con.			_
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			Town abin (	Paraugh/Cih/C	Forum A/illiago			Con block	tract survey	etc.	Lot 25-27
County or District	and ahan		Iownship/i	Borough/City/	_	,			9	, 0.0.	24
			Address	· · · · · · · · · · · · · · · · · · ·					Date completed_	<b>.</b>	48-53
			2.O. B K2S 1B	lox 955 Northing	Stitt		Ontar ation RC	Basin Code	i i	<b>7</b> day 8 ∷	month Oppa
21	M 10	12	17	18	1 1 24	25 26	30	31		نطلل	4
		LOG OF O	VERBURDEN		OCK MA	TERIALS (				De	pth - feet
General colour	Most common mater	ial	Othe	er materials		<u> </u>	Gener	al description		From	То
Brown	Sand									0	5_
Gray	Limesto	ne			· ne-		Me	dium	ar	5_	60_
Gray	Limesto	ne		- <u></u> -			Ha	rd		60	90
Black	Stone		Sì	ale				<del></del>		90	110
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					<u>.</u>						<del>-</del>
				110							
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31			ــــــال		نـــا لــ		4414				النأبا
32	15 21		1	11111	43	بايلي	11111		1	<u>.    </u>	
41 WATE Water found	R RECORD	51 Inside	CASING & OI	PEN HOLE Wall		ı - feet		o, opolinig	31-33 Diameter		ength 39-40
at - feet	Kind of water	diam inches	Material	thickness inches	From	To	Mater	al and type		Depth at t	op of screen
106	Salty 5 Gas	6 1/4	Steel Galvanized Concrete	.188	0	22.5	Š				feet
	Fresh 4 Minerals Salty 5 Gas	5	☐ Open hole ☐ Plastic				61	PLUGGING	& SEALING	RECO	RD
20-23	Fresh 3 Sulphur 24 Minerals	2	☐ Steel 19 ☐ Galvanized ☐ Concrete			20-23	Depth se	Annular spac		☐ Abando	
25.25	Salty 6 Gas Sulphur 29	l6 l₄	☐ Concrete ☐ Open hole ☐ Plastic		22.5	60	From 10-13	To 14-17	erial and type (Ce		
2 [	Salty ∈ ☐ Gas	2	Steel 26 Galvanized			27-30	18-21	0 G1	couted -	Cene	at
30-33 1 2	□ Fresh <sup>3</sup> □ Sulphur <sup>34</sup> 60 □ Salty 6 □ Gas	- 15 7/8 <sup>4</sup>	☐ Concrete ☐ <b>IX</b> Open hole ☐ Plastic		60	110	26-29	30-33 8C			
		11:14		isa	· · · · · · · · · · · · · · · · · · ·			<u></u>			
71 Pumping test m		15 GPM	Duration of pump	17:18 <b>Mins</b>		In diagra		OCATION OF ow distances		road and	l lot line.
I. I Static level I	Water levelsend of pumping Water levels	•		☐ Recovery		Indicate	north by an	ow.			
E T	22-24 <b>15 minutes</b> 26-28	30 minutes 29-31	45 minutes 32-34	60 minutes 35-37							
18 feet If flowing give ra	40 feet 40 feet ate 38-41 Pump intake se	40 feet et at	40 feet Water at end of te	40 feet st 42		<u> </u>			-		
Recommended p	GPM Recommended	feet 1 43-45	☐ Clear Recommended	Cloudy 46-49	<b>                                     </b>						
☐ Shallow	pump setting	<b>7</b> 5 feet	pump rate	<b>5</b> GPM		3					
FINAL STATUS	S OF WELL 54				, ,	g	Q);	, 41505			
1 Water sup		d, insufficient su	pply <sup>9</sup> ☐ Unfinisi	hed ement well		)	,				
3 ☐ Test hole 4 ☐ Recharge	7 🗆 Abandone	d (Other)			;		Lot 3		- <del></del>		
WATER USE	55-56			**		19	~0.0				
1 Stock			9 ☐ Not use 10 ☐ Other	8		17					
3 ☐ Irrigation 4 ☐ Industrial											
	CONSTRUCTION 57				11 _						<del></del>
1 ☐ Cable too 2 ☐ Rotary (co 3 ☐ Rotary (re	onventional)  onventional  overse)  Air percus  Boring  Diamond	sion <b>0–22</b>	<ul> <li>9 ☐ Driving</li> <li>10 ☐ Digging</li> <li>11 ☐ Other</li> </ul>				Flen	sellyn	Rd	~~	~ . ~ ~
" ☐ Rotary (ai										20	8435
Name of Well Contr	ractor		Well Contract	or's Licence No.	> Dat		58 Contracto		59-62 Date rece		63-68
Capital	Water Supply	Ltd.	155	8	┦┃ <b>⋛</b> ┠╗	rce e of inspection		558	SEF	15	1999
1			atario K2	S 146							
Name of Well Techn		- <del></del>	Well Technicia		MINISTRY	narks				CSS	S.ESO
S. MILL	er		T0097	•	110					-~~	
Signature of Techni	ician/Contractor		Submission d	late							

Ministry of the Environment

### The Ontario Water Resources Act WATER WELL RECORD

Print only in spaces provided. Mark correct box with a checkmark, where applicable.

1530890 11

Municipality	Con.	
15003	CON	1 1 09

County or District			Township	/Borough/City/	•				tract surve	y, etc. Lo	
Obtava	Carloton		Address	Goulb	ourn			<u> </u>	9 Date		24 48 98
			Box	190 Car	p, Onta	ario M	KOA 1LO			3 <b>0</b> tay 10 m	ionth <b>99</b> ai
21	U	.		Northing		RC Eleva		Basin Code	. 1	111	IV I
1 2	M 10	100 OF OV		LAND DEDE	OCK MAT	EDIALC (a.	30 30 30 30 30 30 30 30 30 30 30 30 30 3	31			17
	Mant annual moto	LOG OF OV		er materials	IOCK IVIAI	ENIALS (SE		description		Depth	ı - feet
General colour	Most common mater	riai	Oth	er materials			General	description		From	То
Brown	Soil		Brok	en Rock						0	6
Gray	Limesto	ne					Mediu	m Soft		6	75
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32				11 111						<u></u>	
10 1±	R RECORD	51 <b>C</b>	ASING & O	PEN HOLE	RECORD		Sizes of o		11-33 Diameter	34-38 Leng	th 39.40
Water found at - feet	Kind of water	Inside diam	Material	Wall thickness	Depth -		(Siot No.)  Material a		i	inches	feet
10-13 1	Fresh <sup>3</sup> Sulphur <sup>14</sup> Minerals	inches 6 11/4 5	Steel 12	inches •188	From		Material a	and type	,	Depth at top	of screen
54 <sup>2</sup> 15-18	Salty 6 ☐ Gas	3 2	Concrete	•100			<b>6</b>				feet
1	☐ Fresh 4 ☐ Minerals ☐ Salty ☐ Gas	17.10	Plastic			20 23	61	PLUGGING	& SEALING	RECORD	
20-23	Fresh 3 Sulphur 24	2	☐ Steel ☐ Galvanized ☐ Concrete			20 20	Depth set at	Annular space		☐ Abandonm	
25.28	J Salty 5 ☐ Gas		Open hole		22	50	From 10-13	To Mate	erial and type (Ce	ement grout, be	entonite, etc.)
2 [	☐ Fresh ☐ Guprul ☐ Guprul ☐ Guprul ☐ Minerals ☐ Gas		☐ Steel ☐ Galvanized			27-30	21	0 Gr	couted -	Cement	(3)
30-33	Fresh <sup>3</sup> Sulphur <sup>34</sup> <sup>60</sup> Salty Minerals	3 [	Concrete Open hole Plastic		50	75	26-29	30 33 80			
	☐ Salty 5 ☐ Gas	5	Plastic								
71 Pumping test m		25 GPM	uration of pump	ing 17-18 <b>Mins</b>			LOC	ATION OF	WELL		
Static level V	Vater level 25		•	☐ Recovery	K	In diagram	n below show orth by arrow	distances	of well from r	oad and lo	t line.
19-21 e	end of pumping 22:24 15 minutes		5 minutes	60 minutes 35-37	1	maicate n	siai by airon	•			
If flowing give ra	10128et 101eet	Ì	1912#et	1912 <b>5</b> et							
If flowing give ra	ate 38.41 Pump intake se	t at V	Vater at end of te	st 42			Forest	Grove	<u> </u>		
Recommended p			☐ Clear Recommended	Cloudy 46-49		1			1		
☐ Shallow	Deep pump setting	50 feet	pump rate	<b>5</b> GРМ		ı			1		
50-53	S OF WELL 54		······································			1	G		ŀ		
FINAL STATUS  Water sup boservation		d, insufficient suppl	y 9 🗆 Unfinis	hed		1			1		RA
2 ☐ Observation 3 ☐ Test hole 4 ☐ Recharge	<sup>7</sup> ☐ Abandoned	d (Other)	<sup>10</sup> ☐ Replac	ement well		1	1"111	1/131	_ '		- 1
						ŀ	$^{\odot}$	y = 1 1	1		Flewellyn
WATER USE  1 Domestic 2 Stock	55-56  5 Commercia	al	9 🔲 Not use			ł ;	_				1 =
3 ☐ Irrigation	7 Public supp		10 🔲 Other			1	Lot #6		1		3
□ Industrial	8 🗆 Cooling & a	an conditioning							Aside Poses		100
1	CONSTRUCTION 57	eion.	<sup>9</sup> ☐ Driving					\\C	8°°		11
1 Cable tool 2 Rotary (co	everse) / 🗌 Diamond		10 Digging	)				حرين	Coca	000	1
<sup>4</sup> □ Rotary (air	ir) 0-50 * • Jetting									208	492
Name of Well Contro	ractor		Well Contracto	or's Licence No.	Data	5	is Contractor		59-62 Date rece	ived	63-68 8
Capital	l Water Supply	Ltd.	155		Source			58	DEC	0 7 19	99
Address				_	I I ш Расс с	of inspection	1	nspector			
P.O. Bo	ox 490 Stittsv	111e Ont	ar10 K2 Well Technicia	S 1A6 an's Licence No.	Rema	rks					
	_		I	1							
S. Mil	ler /		TOO	97	<u>                                     </u>					COO E	CA
S. Mill Signature of Technic	cian/Contractor		Submission day 30 mo	97 ate 10 yr 99	MINISTRY					CSS.E	S0



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Mark correct box with a checkmark, where applicable.

Municipality	Con.							
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10 14	15		 		ກີ	23	24	1

County or District	wa-Carloton	Township/Borough/City,	/Town/Village		Con bloo	ck tract survey		22+ <u>7</u> 3
Owner's surname	Gerard Home	Address	Hisvi	4 Bon		Date completed	27 17	Z. 99
21	Ĭ.	asting Northing	ا لننا	RC Elevation	RC Basin Code	; ;	iii	iv
1 2	10 12	OF OVERBURDEN AND BED	PROCK MAT	ERIALS (see ins	tructions)		1 5	47
General colour	Most common material	Other materials		. Ge	eneral description		From	pth feet To
-	Sandyclaya	ravel					0	12
Rey	Imestane!	)					12	70
		· · · · · · · · · · · · · · · · · · ·		eligist.				
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		3 1 5 1 1 1 1	1 1	4 1 1 1 1	i 1 1	1 1 2		
31 32		<del>                                      </del>			<u>, , , , , , , , , , , , , , , , , , , </u>			
10 14 41 WAT	1 15 21 51 51	CASING & OPEN HOL			es of opening ot No.)	65 31-33 Diameter	34-38 Lengt	75 80 h 39 40
Water found at - feet	Kind of water Inside diam inches	Wall Material thickness inches	Depth – From	To H	terial and type		ches	feet
63	Fresh: Sulphur 10-11	Steel 12 Galvanized Concrete		13-16 D	enarand type		Depth at top o	feet
1 1	Fresh 3 Sulphur 19 Salty 6 Gas	4 Open hole 188	0	ZZ 61	PLUGGI	NG & SEALING	G RECOR	D ·
	Fresh <sup>3</sup> Sulphur <sup>24</sup> Minerals Salty <sub>6</sub> Gas	2 Galvanized 3 Concrete			Annular space	terial and type (Cem	Abandonmo	
25-28 1	Fresh <sup>3</sup> Sulphur <sup>29</sup>	4	0	20 From	10	20men		, I
30-33	Fresh <sup>3</sup> Sulphur <sup>34</sup> 60	2 Galvanized 3 Concrete		27-30	22-25	ά	0.0	<u> </u>
	Salty 6 Gas	Open hole Plastic	20	70	9 30-33 80		·	
Pumping test m		Duration of pumping			LOCATION O			
Static level el	and of pumping	☐ Pumping <sup>2</sup> Recovery		n diagram below s ndicate north by a		of well from roa	d and lot li	ne.
TEST /	22-24 15 minutes 30 minutes 29-3	45 minutes 60 minutes 35-37						
If flowing give ra	feet feet feet feet ate 38-41 Pump intake set at	Water at end of test 42						Ή
Recommended		Recommended 46-49		1				
1 1	Deep pump setting fee	pump rate Zo GPM		<i>Y</i>	To	restrou	eDr	•
FINAL STATUS		t supply 9   Unfinished		of 1	1/20	U		
Water sup Doservation Test hole	ion well  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Government  Governme			•	14/11			
4 ☐ Recharge	s well • Dewatering				/,			
1 Domestic 2 Stock	5 ☐ Commercial 6 ☐ Municipal	9 Not used 10 Other			\	///		
3 ☐ Irrigation 4 ☐ Industrial	<sup>7</sup> Public supply				_	اللا		
	CONSTRUCTION 57	g 🗆 Drivina				wellyn 1	ed	
3 ☐ Rotary (re	onventional) 6 🗍 Boring everse) 7 🗍 Diamond	9		-	Fle	merry 1	972	20
4 🗌 Rotary (ai	ir) 8				· · · · · · · · · · · · · · · · · · ·			
Name of Well Contra	actor Pock Dr. 11mpCol	Well Contractor's Licence No.	Data source	58 Contra	T 7 Q	59-62 Date receiv		100
Address	D 7 Ton	<b>5</b> +	Пш Рисси	inspection	Inspector		10 40	
Name of Well Techn	1) 10	Well Technician's Licence No.	Remark	(\$				
Signature of Technic	onturully	Submission date	NIN SHEMAN			(	CSS.E	S0
Kons	<del></del>	Lay Pol OV			.*	0!	506 (07/94) F	ront Form 9
2 - MIN	ÍISTER OF ENVIRONMEN	T & ENERGY COPY	2.25		N.			

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Municipality	Con.						_
115003	CON	1	1	,		0	9
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0506 (11/98) Front Form 9

County or District  Ottawa Carleton  Owner's surname  Maple Mountain Homes  Con block tract st.  Goulbourn  Address  Box 730 Richmond, Ontario KOA 270  Northing RC Elevation RC Basin Code II		
Owner's surname 2847 First Name Address Date complet  Maple Mountain Homes Box 730 Richmond, Ontario KOA 2ZO		ot 23
Maple Mountain Homes   Box 730 Richmond, Ontario KOA 2ZO	ed	48:53
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21 17 18 24 35 26 30		
LOG OF OVERBURDEN AND BEDROCK MATERIALS (see instructions)  General colour Most common material Other materials General description	Dept	h - feet
General colour Most common material Other materials General description	From	То
brown Sandy Soil Stones	0	5
Gray Limestone Medium Hard	5_	172
		<u> </u>
		ļ
32 [ ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ]		يا لبلاء
41 WATER RECORD  51 CASING & OPEN HOLE RECORD  Unside Wall Depth - feet  Sizes of opening 31 23 Diam  Sizes of opening 31 23 Diam  Sizes of opening 31 23 Diam  Sizes of opening 31 23 Diam	eter 34-38 Len	gth 39-40
Water found at - feet Kind of water diam Material thickness inches inches from To	inches Depth at top	feet
37   Salty for Gas     1   Lavanized     1   1	Jopin at 10	feet
15-18   Fresh   Minerals   Sulphur   19   4   Open hole   Sulphur   19   5   Plastic	NO BECODE	
160 Salty 6 Gas 17/18 1 Steel 19 20:23 TANnular space	Abandoni	
2 Salty 6 Gas 6 4 Topen hole 22 172 From To Material and type	e (Cement grout, b	entonite, etc.)
25-28 1 Fresh 3 Sulphur 29 5 Plastic 10.13 14-17 21 O Grouted 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-30 27-3	- Cement	(3)
30-33   Fresh   3   Sulphur   34   60   3   Concrete   26.29   30-33   50	. 410	
2 Salty 6 Gas 5 Plastic		
Pumping test method   10   Pumping rate   13-14   Duration of pumping   17-18     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19-16     19		
Static level Water level 25 Water levels during 1 Pumping 2 Recovery Indicate porth by arrow	om road and l	ot line.
Static level Water level 25 Water levels during 1 Pumping 2 Recovery Indicate porth by arrow	om road and l	ot line.
Static level Water level 25 Water levels during 1 Pumping 2 Recovery Indicate porth by arrow	om road and i	ot line.
Static level Water levels during 1 Pumping 2 Recovery end of pumping 15 Water levels during 1 Pumping 2 Recovery end of pumping 15 Water levels during 15 Pumping 2 Recovery end of pumping 15 Water levels during 15 Pumping 2 Recovery end of pumping 15 Water levels during 15 Pumping 2 Recovery end of pumping 15 Water levels during 15 Pumping 2 Recovery end of pumping 15 Water levels during 15 Pumping 2 Recovery end of pumping 15 Water levels during 15 Pumping 2 Recovery end of pumping 15 Water levels during 15 Pumping 2 Recovery end of pumping 15 Water levels during 15 Pumping 2 Recovery end of pumping 15 Water levels during 15 Pumping 2 Recovery end of pumping 15 Water levels during 15 Pumping 2 Recovery end of pumping 15 Water levels during 15 Pumping 2 Recovery end of pumping 15 Water levels during 15 Pumping 2 Recovery end of pumping 15 Water levels during 15 Pumping 2 Recovery end of pumping 15 Water levels during 15 Pumping 2 Recovery end of pumping 15 Water levels during 15 Pumping 2 Recovery end of pumping 15 Water levels during 15 Pumping 2 Recovery end of pumping 15 Water levels during 15 Pumping 2 Recovery end of pumping 15 Pumping	om road and l	ot line.
Static level Water levels during 1 Pumping 2 Recovery end of pumping 15 Water levels during 1 Pumping 2 Recovery 13-2 22-24 15 minutes 26-28 30 minutes 26-28 30 minutes 32-34 60 minutes 32-34 60 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 15 minutes 32-34 1	om road and h	ot line.
Static level Water level end of pumping      Static level   Water level end of pumping   Water levels during   Pumping   2   Recovery	om road and i	ot line.
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Static level   Water level end of pumping   Water levels during   Pumping   Pumping   Pumping   Recovery end of pumping   Water levels during   Pumping   Pu		ot line.
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Static level   Water level end of pumping   Static level   Water levels during   Pumping   Recovery   Static level   Static le		Sourced Line
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**♥** Ontario

Ministry of the **Environment** 

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County or District		·	1	Borough/City/	_	9		Con block	tract survey	, etc. Lo	ot 25.23
			Address	-1 - 31	f.l 3	<b>7</b>	Ombania		Date completed	Eday En	ಾಣ nonth <b>()@</b> ar
21	U;		193 N	<b>linding</b> Northing	way r	RC Ele	Ontario vation RC	Basin Code	<u> </u>	6day 6 n ∷ii	iv
1 2	, T M	122 55	17	AND OCCU	24	25 26 TEDIS 2 1	30	31			1 1 1 1
General actions	Most common mate		OVERBURDEN Othe	AND BEDF r materials	OUK MA	IERIALS (	<b>see instructio</b> General d				h - feet
General colour		, (0)	Oute	. materials			Jelielai U			From	То
Brown	Clay		11.141.2			-				0	10
Brown	Hardpan	-	Boul	ders						10	30
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31 32 32 32 33							1:11:1:				
41 <b>WATE</b>	ER RECORD	51	CASING & OP				Sizes of op	ening 3	1-33 Diameter	34-38 Leng	76 eo jth 39-40
Water found at - feet	Kind of water	Inside diam inches	Material	Wall thickness inches	Depth From	- feet To	(Slot No.)  Material an		ir	nches	feet
	☐ Fresh ☐ Sulphur 14 ☐ Minerals ☐ Salty ☐ Gas	6 1/4	1 Steel 12 Galvanized	.188	0	73⁵	Material an	d type		Depth at top	41-44
15-18 ,	OT TESTES   19		3 ☐ Concrete 4 ☐ Open hole								feet
20.22	Gas	17-18	Plastic Steel			20-23		LUGGING Annular space	& SEALING	RECORD Abandonm	
1 1 1	☐ Fresh 3 ☐ Sulphur 24 ☐ Minerals ☐ Salty 6 ☐ Gas	6	2 ☐ Galvanized 3 ☐ Concrete 4 🖫 Open hole		<b>7</b> 3	90	Depth set at -	feet Mate	rial and type (Cer	ment grout, b	entonite, etc.)
25-28 1 [	☐ Fresh	24-25	5 ☐ Plastic			27-30	10-12 <b>60</b>	14-17 O Gro	outed -Be	entonit	e (3)
30-33	☐ Fresh ☐ Sulphur 34 60	0	<sup>2</sup> ☐ Galvanized <sup>3</sup> ☐ Concrete				18-21 26-29	30-33 80			
2 [	☐ Salty 6 ☐ Gas		□ Open hole     □ Plastic								
Pumping test n	' 7	11:14 25 GPM	Duration of pumpir	17:18			LOCA	ATION OF	WELL		
	Water level			☐ Recovery			m below show north by arrow.	distances (	of well from re	oad and lo	ot line.
IS 19-2 19-2 If flowing give in	end of pumping 22:24 15 minutes 25:28	30 minutes 29-3:		60 minutes 35-37		maioate i					
21'9#	35 feet <b>85</b> feet	60 fee	et 50 feet	35 feet							
If flowing give i	rate 38-41 Pump intake se	et at fee	Water at end of test	t <sup>42</sup> ⊟ <b>⊮</b> Cloudy							
Hecommended	pump type Recommended			46-49		1					
☐ Shallow	Deep	50 fee		5 GPM							
FINAL STATU											. —
1 Water sup 2 Doservati 3 Dest hole	ion well 6 🗌 Abandoned	d, poor quality	supply 9  Unfinishe	ed ment well					× / ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~		
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WATER USE	55-56 5 <b>Commerci</b>	al	9 ☐ Not use	- 844		#1		3	1-1		
<sup>2</sup> ☐ Stock <sup>3</sup> ☐ Irrigation	6 ☐ Municipal 7 ☐ Public sup	ply	10 🗌 <b>Other</b>			7		-g	Angelia de la marca de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio del companio de la companio del companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio del companio de la companio del companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio del companio del companio del companio de la companio de la companio del companio del companio del companio del companio del companio del companio del companio del companio del companio del companio del companio del companio del companio del companio del companio del companio del companio del companio del companio del companio del companio del companio del companio del companio del companio del companio del companio del companio del companio del companio del companio del companio del companio del companio del companio del companio del companio del companio del companio del companio del companio del companio del companio del compani		
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<sup>2</sup> ☐ Rotary (c <sup>3</sup> ☐ Rotary (re	conventional) <sup>6</sup> Dering everse) <sup>7</sup> Diamond	o.vii	10 Digging 11 Other			4		3		000	000
⁴ 🙀 Rotarý (a					L			<u> </u>	<del> </del>	208	<b>800</b>
Name of Well Cont	tractor		Well Contractor	r's Licence No.	<b>&gt;</b> Data		58 Contractor		59-62 Date receiv		63-68 80
Capital Address	Water Supply L	td.	1558		Sour Date	of inspection		58 spector	JUL	172	000
P.O. Box Name of Well Techn	490 Stittsvi	lle,Oni	tario K2S Well Technician	LA6 I's Licence No	3SO ★ Rem	arks					
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LOG OF OVERBURDEN AND BEDROCK MATCHALS (see instructions)  Correction corrow  Next corross material  Correction Corrow  Next corross material  Correction Corrow  Next corross material  Corrow  Next corross material  Corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Next corrow  Ne		20.47	First Name	Address	COUTDO	TTI	- ALFY III			Dat	anlatad		46-65
Log of OverBURDEN AND BEDROCK MATERIALS tee instructional   General description   Deep   Sept.	Amsted	Construction	Zone Easting		Box 129 Northing	Stit	sville RC Elev	Ontar	io K29 Basin	Code	ipieteu 2	8 ay 6 n	nonth <b>()()</b> ear
Sortered actional Most common material Process  Soil Rock	21			17	18	24	25 26	30	31		1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Scheller (Color)  Rock  Soil Rock  Limestone  Soil Rock  Medium Soft 10 88  Signary  Twenty of the following soft 10 88  Soil Color Soil Rock  Medium Soft 10 88  Soil Color Soil Rock  Medium Soft 10 88  Soil Color Soil Rock  Soil Color Soil Rock  Soil Color Soil Rock  Soil Color Soil Rock  Soil Color Soil Rock  Soil Color Soil Rock  Soil Color Soil Rock  Soil Color Soil Rock  Soil Color Soil Rock  Soil Color Soil Rock  Soil Color Soil Rock  Soil Color Soil Rock  Soil Color Soil Rock  Soil Color Soil Rock  Soil Color Soil Rock  Soil Color Soil Rock  Soil Color Soil Rock  Soil Color Soil Rock  Soil Color Soil Rock  Soil Color Soil Rock  Soil Color Soil Rock  Soil Color Soil Rock  Soil Color Soil Rock  Soil Color Soil Rock  Soil Color Soil Rock  Soil Color Soil Rock  Soil Color Soil Rock  Soil Color Soil Rock  Soil Color Soil Rock  Soil Color Soil Rock  Soil Color Soil Rock  Soil Color Soil Rock  Soil Color Soil Rock  Soil Color Soil Rock  Soil Color Soil Rock  Soil Color Soil Rock  Soil Color Soil Rock  Soil Color Soil Rock  Soil Color Soil Rock  Soil Color Soil Rock  Soil Color Soil Rock  Soil Color Soil Rock  Soil Color Soil Rock  Soil Color Soil Rock  Soil Color Soil Rock  Soil Color Soil Rock  Soil Color Soil Rock  Soil Color Soil Rock  Soil Color Soil Rock  Soil Color Soil Rock  Soil Color Soil Rock  Soil Color Soil Rock  Soil Color Soil Rock  Soil Color Soil Rock  Soil Color Soil Rock  Soil Color Soil Rock  Soil Color Soil Rock  Soil Color Soil Rock  Soil Color Soil Rock  Soil Color Soil Rock  Soil Color Soil Rock  Soil Color Soil Rock  Soil Color Soil Rock  Soil Color Soil Rock  Soil Color Soil Rock  Soil Color Soil Rock  Soil Color Soil Rock  Soil Color Soil Rock  Soil Color Soil Rock  Soil Color Soil Rock  Soil Color Soil Rock  Soil Color Soil Rock  Soil Color Soil Rock  Soil Color Soil Rock  Soil Color Soil Rock  Soil Color Soil Rock  Soil Color Soil Rock  Soil Color Soil Rock  Soil Color Soil Rock  Soil Color Soil Rock  Soil Color Soil Rock  Soil Color Soil Rock  Soil Color Soil Rock  Soil Color Soil R			LOG OF OV	ERBURDEN	AND BEDF	OCK MA	TERIALS (	see instruc	tions)			Dent	ı - feet
Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash   Cash	General colour	Most common r	naterial	Othe	er materials			Gener	al descript	ion			
WHEN RECORD  WATER RECORD  WATER RECORD  WATER RECORD  At 1 feet   Peed    Brown	Soil		Ro	ck							0	10	
WATER RECORD  WATER RECORD  Water found wat - feet   North of water   Nort	Gray	Limes	tone					P	<u>Medium</u>	Soft		10	88
WATER RECORD  WATER RECORD  Water found wat - feet   North of water   Nort	_					·	1077						
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Water Francisco Records Water found Kind of water at feet   Good	<u> </u>	<u> </u>							لططنط ا را را		 _!	- 1 <del>-1-1</del> -1	
Maler found   Kind of water   Maler found	10 14	R RECORD	51 C	ASING & O	PEN HOLE	RECORD				31-33		34-38 Leng	th 39-40
Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Sect	Water found		diam	Material	thickness			Slot N	No.)				feet
Section   Comment   Comm		Fresit ( - Minarala	6 1917411	Steel 12				Materi	al and type			Depth at top	of screen
Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subject   Subj		OT TEST Suphur	3 [	Concrete		:							feet
Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Seco	2 [	☐ Salty 6 ☐ Gas	17-18 . [	19			20-23	61					
Pumping test method   Same	1 1	」Fresii —	3 [	☐ Concrete		22	50	<u> </u>	tat - feet		d type (Cer	nent grout, b	entonite, etc.)
Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salut   Salu	25-28	Fresh 3 D Sulphur	29 5 1	_ Plastic		22		10-13	14-17	Grout	ed-Ce	ment (	(4)
Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pumping rate   Pump		J Salty 6 ☐ Gas	34 60 3 [	☐ Galvanized ☐ Concrete					22-25				
Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Second   Pump   Secon	2 [	☐ Salty 5 ☐ Gas	6 4 5	Open hole Plastic		50	88	26-29	30-33	50			
Static level   Water levels during   Pumping   Recovery   Static level   Recovery   Recovery   Static level   Recovery	/ 1		10.0	15-16	17-18			L	OCATION	OF WELI	 L		
Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Stat	Static level V	Vater level 25 Water				1 1	In diagra	m below sh	ow distar	ices of wel	II from ro	oad and lo	t line.
Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stan	19-21 e	end of pumping				7	maioato	iorai by air	OW.	20e			
Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Stat	S feet	16 feet 18	feet 18 feet	17 feet	16 feet	<b>'</b> .			<b>\0</b>	Pien	1	5.7+√5.55 Se ≈7+√5.55	ر ا ر
Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Station   Stat	If flowing give r	ate 38-41 Pump inta			st 42					δ <sub>Ω</sub>	رى برى	110	20
Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stanton   Stan	Recommended p	oump type Recomme	ended 43-45	Recommended							4	400x	Ö
WATER USE   S-5-5   Commercial   Other	Deep	40 feet		5 GPM									
Color   Abandoned (Other)   Color   Abandoned (Other)   Color   Colo												, ,	٥٧٥ '
WATER USE   1	1 Water sup 2 Observatio	on well 5 ☐ Abandon well 6 ☐ Abandon 7 ☐ Abandon	doned, poor quality	ily <sup>9</sup> □ Unfinisi 10 □ Replace	hed ement well	14	7	<u>lewell</u>	140	Rd			14
Domestic   S   Commercial   S   Not use   S   State	d ☐ Recharge					1			•				
METHOD OF CONSTRUCTION 57				9 □ Not use	÷	#							
METHOD OF CONSTRUCTION 57	3 ☐ Irrigation	7 🔲 Public	cipal c supply			4							
Cable tool 50_88   5   Air percussion   9   Driving   10   Digging   11   Other   208624	4 🗌 Industrial	8 🔲 Coolii	ng & air conditioning			77							
Rotary (conventional)   6   Boring   10   Digging   11   Other   Contractor   Supply Ltd   Licence No.   S. Miller /P. Stanton   Signature of Jechnician   Supply Ltd   Supply Ltd   Signature of Jechnician   Supply Ltd   Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Supply Sup			ercussion	9 □ Driving									
Name of Well Contractor    Name of Well Contractor   Well Contractor's Licence No.	3 ☐ Rotary (re	everse) 7 🗌 Diam	g ond	10 🔲 Digging	)							000	004
Capital Water Supply Ltd  Address  P.O. Box 490 Stittsville, Ontario K2S 1A6 Name of Well Technician  Well Technician's Licence No.  S. Miller/P. Stanton Signature of Jechnician Jointractor Submission date day 30mo 6 yr 00	<sup>4</sup> 🙀 Rotarý (ai	ir) <b>0–5</b> 0 <sup>8</sup> □ Jettin	g 									<u> 208</u>	024
P.O. Box 490 Stittsville Ontario K2S 1A6 Name of Well Technician  S. Miller/P. Stanton Signature of Technician Jointractor Submission date day 30 mo 6 yr 00  CSS.ES0	Name of Well Contr	ractor		Well Contracto	or's Licence No.	> Data				59-62			63 68 80
P.O. Box 490 Stittsville Ontario K2S 1A6 Name of Well Technician  Well Technician's Licence No.  S. Miller/P. Stanton Signature of Technician Contractor  Submission date day 30 mo 6 yr 00  CSS.ESO	Capital	Water Suupl	y Ltd	1558				] ;	O D Inspector	5	JUL	177	
Name of Well Technician  S. Miller/P. Stanton Signature of Technician Contractor Signature of Technician Contractor Submission date day 30mo 6 yr 00  CSS.ESO				ario K25	1A6	RE	·						
day 30mo 0 yroo	1				n's Licence No.		arks					CSS	FCA
day 30m 0 yroo	S. Mill Signature of Techni	er/P. Stanto	n	Submission da									UCUL
2 - MINISTRY OF THE ENVIRONMENT COPY	777	- 77				≥						0506 (11/98	) Front Form



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where applicable. 1531659

Municipality Con.

0506 (07/00) Front Form 9

County or District	t			Townshi	ip/Borough/City/	Town/Villag	l <del>o</del>			С		tract surv	rey, etc.	Lot <sup>2</sup>
Ottown C	arleten				Goulbour	<u>n</u>		-			9	Date		23
				Address P.O.	Box 190	Carp	,Onta	rio	KO	A 1LO	)	completed	d 2Q <sub>ay</sub> 1	1 <sub>month</sub> 0Q
21		Ÿį,	1 1 ,		Northing	1	RC	Elevat	ion F	RC B	asin Code	ii	. l	iv
1 2		M 10		OVERBURDE	N AND REDE	ROCK MA		S (se		o 31				
General colour	Most c	ommon materia			her materials					eral des			From	epth - feet
		. 2 . 0 . 2 3							Ver	cy We	.+		C	
Brown		ndy Soil					1			_			7	
Gray	Li	mestone				·			mec	31 UKB	Hard	- w	+- <b>'</b>	102
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31		 				 		لبل	ــا لـــ		ــــــــــــــــــــــــــــــــــــــ	ــا لىل		
32	14 15	ــــــــــــــــــــــــــــــــــــــ				لــــــا كــ			يا لــ	لبب	بلب		بللب	75
41 WAT	ER RECORD	21	51 Inside	CASING & C	OPEN HOLE	RECORD	- feet	7	Size	s of openi	ing 3	1-33 Diamete	er 34-38 L	_ength 39
Water found at - feet	Kind of wa		diam inches	Material	thickness inches	From	To			erial and t	wne.		inches Denth at	top of screen
1	C Colty 4	Sulphur 14 Minerals Gas	6 191/	1 Steel 1: 2 Galvanized	² -188	0	22	·•		stial and i	ypo		Борати	feet
15-18 1 [	□ Fresh <sup>3</sup> □	Sulphur 19 Minerals		3 ☐ Concrete 4 ☐ Open hole 5 ☐ Plastic					- L		100110	4 OF AL II	IO DEGG	
20.23	OF TESTE	Gas Sulphur 24	17-18		9		20-	-23	61	🛣 Anr	nular space	& SEALIN	Aband	
2 [	Salty 6 🗆	Minerals Gas	6 1/	3   Concrete Open hole		22.5	102		Depth s	set at - fee To	— Mate	rial and type (	Cement grou	rt, bentonite, et
		Sulphur 29 Minerals Gas	24-25	i □ Steel	26		27	-30	22-18-21		5 <sup>17</sup> Gro	outed -	- Cemer	nt (4)
	□ Fresh 3 □	Sulphur 34 60 Minerals		2 ☐ Galvanized 3 ☐ Concrete 4 ☐ Open hole					26-29		33 80			
2 [	Salty 6			5 Plastic					L					
Pumping test r	I	Pumping rate	11-14 <b>Q</b> GPM	15 10	nping				L	LOCAT	ION OF	WELL		
	Water level	25 Water levels of	<u> </u>	Pumping	2 Recovery	D	In dia	gram	below s rth by ar	how dis	stances o	of well from	road and	lot line.
19-21	end of pumping 22-24		30 minutes		-	1			-			١		
5 6 feet	<b>14</b> feet	_	12 fee	7.4	<b>14</b> feet			7-1	وسو	mh	- Re	<b>\</b>	**************************************	
6 feet If flowing give	rate 38-41 GPM	Pump intake set a	it fee	Water at end of t ☐ Clear	test <sup>42</sup> Cloudy									1
Recommended	pump type	Recommended pump setting	43-45											l
☐ Shallow	Deep		60 fee	t   `	5 GPM			_			-			-8
FINAL STATU	JS OF WELL	54												8
1 Water sug	tion well 6	Abandoned, Abandoned,	poor quality		ished acement well		h	*+c	'5 r	ر لـ	* 2			9
3 ☐ Test hole 4 ☐ Recharge		7 ☐ Abandoned ( B ☐ Dewatering	отнег)					*+c	`-	PI	es 8			<b>1</b>
WATER USE		55-56		. C Net					_6		ن ا	;		丑
1 S Domestic 2 Stock 3 ☐ Irrigation	•	5 ☐ Commercial 5 ☐ Municipal 7 ☐ Public supply	,	9 ☐ Not us 10 ☐ Other			_	e			\\\	•		
4 🗌 Industrial		□ Cooling & air		)		moe!	D'O'C	5			0.00	•		•
METHOD OF			. A FF	a C 5 · ·		$   \omega_{o_{c}} $	ر جور _				۲			
<sup>1</sup> by Cable too <sup>2</sup> ☐ Rotary (c <sup>3</sup> ☐ Rotary (re	conventional)	Air percussion Boring Diamond	n U-55	9 ☐ Drivin  10 ☐ Diggir  11 ☐ Other	ng									
4 🕱 Rotary (a	oir) 0-55	Jetting											22	<u> 471</u> 4
Name of Well Cont	tractor			Well Contract	ctor's Licence No.	> Data		58	Contract		· · ·	59-62 Date re		63-68
Capital		upply Lt	d.	1558		Soul				55		JA	<u>N 3 0</u>	2001
Address	- 400 -		10.0	towic mon	1116	Date	e of inspec	ction		Inspe	ector			
Name of Well Tech	nnician	ELEESVI!	TelOU		cian's Licence No.	STRY USE	narks							
S. Mille	er,			T0097	7	<u> </u>							С	SS.ES1

Ministry of the Environment

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Municipality	3 <b>C</b>	on. ON:	1	ı	I	0	8
10 1	4 15				22	23	24

County or District		Township/Borough/City/1	Town/Village	***	Con block tract survey	, etc.	Lot 25-27 23
		Address 41 Delamere D	Or., Sti	ttsville, ON	Date  K2S 1R2completed	08 (	05 01 48-53 month year
21	л м 10	Northing	RO	C Elevation RC	Basin Code ii	iii	iv
		F OVERBURDEN AND BEDRO	OCK MATEI	RIALS (see instruct	ions)		47
General colour	Most common material	Other materials		Genera	l description	From	pth - feet To
Brown	Soil	Stoned		t		0	5
Brown	Sand	Stones		wet		5 10	10
Grey	Sand Limestone	Stures		med soft	-	24	70
JLEY	Manual LANG			and spett			,,,
				· · · · -			
31			<u></u>			<u>.                                    </u>	<u> </u>
32	15 21	32	43	1 1 1 1 1 54			75 80
41 WATE Water found	R RECORD 51	CASING & OPEN HOLE R Wall Material thickness	Depth - fee	Sizes of	opening 31-33 Diameter	34-38 Ler	ngth 39-40
at - feet  69 10-13 1 N	OTeshTESTS phur 14 inches 6 10 11	Material thickness inches	From	To Slot No Material	and type	Depth at top	
15-18 1	Fresh 3 Sulphur 19	2 Galvanized 3 Concrete 4 Open hole					feet
20.22	Salty 6 Gas 17-18	5				RECOR Abandon	
2 🗆	Salty 6 Gas 6	3 ☐ Concrete 4 ☐ Open hole 5 ☐ Plastic	27	70 Depth set a	To Material and type (Cer		
2 2	Salty 6 Gas	1 ☐ Steel 26 2 ☐ Galvanized		27-30 277	O Grouted-ce	ment(4	4)
1 1' -	Fresh 3 Sulphur 34 60 Salty 6 Gas	3  Concrete 4  Open hole 5  Plastic		26-29	30-33 80		
Pumping test m		The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon		LO	CATION OF WELL		,
Static level W	ater level 25 Water levels during	Pumping 2 ☐ Recovery	In In		w distances of well from ro	ad and k	ot line.
19-21	22-24 15 minutes 30 minutes 29-30 50 50	45 minutes 32-34 60 minutes 35-37 40 30		-		11	
5 6 feet If flowing give ra	teet teet te	water at end of test feet 42	1		<b>A</b>		
necommended po	numn eatting	Recommended 46-49	' '		7 8		
☐ Shallow 50-53	Deep pump setting 40 fe		1		· •	1	
FINAL STATUS		supply <sup>9</sup> ☐ Unfinished	1			ħ	
<sup>2</sup> ☐ Observatio <sup>3</sup> ☐ Test hole <sup>4</sup> ☐ Recharge	n well 6 ☐ Abandoned, poor qualit 7 ☐ Abandoned (Other)		1	<del></del>	<b>」</b> ;		
WATER USE	55-56		1		1	1	<i>)</i>
1 Domestic 2 Stock 3 Irrigation	5 ☐ Commercial 6 ☐ Municipal 7 ☐ Public supply	9	l l		· · · · · · · · · · · · · · · · · · ·	16	
4 🗌 Industrial	8 🗌 Cooling & air conditionir	ng	1 1	t 6140 wellyn R	t .		<del></del>
1 ☐ Cable tool	ONSTRUCTION 57  5 🕱 Air percussion	9 ☐ Driving	Fle	wellyn R	d.	1	
<sup>2</sup> ☐ Rotary (cor <sup>3</sup> ☐ Rotary (rev <sup>4</sup> ☐ <b>x</b> Rotary (air)	erse) <sup>7</sup> Diamond	10 Digging 11 Other		<del>-</del>		230	090
Name of Well Contra	ctor	Well Contractor's Licence No.	Data	58 [Contractor	59-62 [Date receiv		63-68 80
	ater Supply Ltd.	1558	Source Date of in	15	58 JUN	152	
Box 490,		2S 1A6	USE CONTRACTOR	·	mapactoi		
Name of Well Technics Miller	· ·	Well Technician's Licence No.  TOO97	Remarks			C	SS.ES1
Signature of Technic	ian/Contractor	Submission date	N N				Į.
/_	TRY OF THE ENVIRONM		<del></del>			0506 (07/0	00) Front Form 9

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10	4 15				22	23 2	4

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County or District	arlaton		Township/	Borough/City/	Town/Villaç	<b>je</b>		Con block	tract survey		ot <sup>25-27</sup>
ULTAWA (	ALICLMI		Address		escen	t, Kanat	a ON/K	2L 2K9	Date completed 2	day i	nonth year
21	U T	.		Northing		RC Eleva		Basin Code	ii <u>                                    </u>		iv
1 2	M 10	LOG OF OV	ERBURDEN	AND BEDF	OCK MA	TERIALS (se	e instructio	ons)			
General colour	Most common materi	al	Othe	er materials			General	description		Prom From	th - feet To
Brown	sand		stones	-						0	11
Grey	limestone					EDE	d hard			11	50
Grey	limestone								_	50	64
-											
						-				<u> </u>	
	N					bove gr	ound lev	rel		<del> </del>	<del> </del>
		at	time of	orilli	ng.		<u> </u>	<u> </u>		<u> </u>	1
31			ــــــــــــــــــــــــــــــــــــــ	1111	ــــا كــــــــــــــــــــــــــــــــ		حنا لبل			<u> </u>	
	4 15 21 21 ER RECORD	51 <b>C</b>	ASING & O	PEN HOLE	RECORD		Sizes of c	pening	65 31-33 Diameter	34-38 Len	75 8 ngth 39-40
Water found at - feet	Kind of water	Inside diam	Material	Wall thickness		h - feet To	(Slot No.)	)		inches	feet
58 10-13 1N	Ores PS PS Pohur 14		Steel 12 Galvanized	inches •188	0	21 '6"	Material	and type		Depth at top	41-44
15.10	☐ Salty 6 ☐ Gas ☐ Fresh 3 ☐ Sulphur 19 ☐ Minerals	3 [	Concrete Open hole								feet
30.22	Safty 6 Gas	17-18 1	☐ Plastic☐ 19☐ Steel☐ Galvanized			20-23	1	Annular space	& SEALING	□ Abandon	
1 ''	Fresh 4   Minerals   Salty 6   Gas	6 1/8	Concrete Open hole		21'6	50	Depth set at	To Mat	erial and type (Ce	ement grout, I	bentonite, etc.)
	☐ Fresh 3 ☐ Sulphur 29 ☐ Minerals ☐ Gas	24-25 1	☐ Plastic ☐ Steel 26 ☐ Galvanized			27-30	21,18-21	0 G	routed-c	ement	(4)
	☐ Fresh 3 ☐ Sulphur 34 60 ☐ Salty 6 ☐ Gas	5 3/4	Concrete Den hole		50	64	26-29	30-33 80			
	- Cas		Plastic	1	<u> </u>						
71 Pumping test n	□ <b>3B</b> ailer	16 GPM	Ouration of pump 15-16 Hours	17-18 <b>Mins</b>		In diagran		CATION OF	of well from r	oad and k	ot line.
	Water levels end of pumping 22:24 15 minutes	-		2 Recovery		Indicate n	orth by arrov	v	0		
F  _	12 8	7	5 minutes 32-34	60 minutes 35-37							
If flowing give i	1		feet Vater at end of te				$\mathcal{C}$				
Recommended	pump type Recommended pump setting	43-45	☐ Clear  Recommended pump rate	<b>□</b> Cloudy 46-49				1			
☐ Shallow	Deep purify setting	40 feet	panp rate	5 дрм	]			34			
FINAL STATU					1		9				
<sup>1</sup>	ion well 6   Abandoned		ly <sup>9</sup> ☐ Unfinis <sup>10</sup> ☐ Replac				3 2	الإنهاي	7		
4 ☐ Recharge								,		Lo	t*31
WATER USE  1 Domestic		al	9 ☐ Not use			_	# - ·				
2 ☐ Stock 3 ☐ Irrigation 4 ☐ Industrial			to [] Other.				e e				
METHOD OF	CONSTRUCTION 57				<del> </del>	r	ğ				
1 Cable too	on 50-64 5 XAir percuss conventional) 6 Dering	sion	9 ☐ Driving	g	-	<del></del>	11,,,	0	<del></del>		
3 ☐ Rotary (n 4 ☐ Rotary (a			11 🗌 Other		1	t le	vellyn	KOC	id	230	0141
Name of Well Cont	tractor		Well Contract	or's Licence No		ata urao	58 Contractor	· P ^	59-62 Date rec		2001
Capital Address	Water Supply I	.td.	155	8	8   <sub>12</sub>	urce ate of inspection	115	58 Inspector	JUL	18	<u> </u>
Box 49	O, Stittsville	ON. K2S	1 <b>A6</b>	ionio i in **		emarks				<u></u>	
Name of Well Tech	ler <i>P. 57 h</i>	2 NTON	<b>TOO97</b>	ian's Licence No TOOS 6	MINISTRY	erner KS				<b>~</b> ~ ::	
Signature of Techr			Submission d							CSS	ES1
2 MAINIC	TRY OF THE ENV	IDONIMEN		yi U						0506 (07/	(00) Front Form

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County or District	Township/Borough/City/Town/Village	9	Con block tract survey	7, etc. Lot 25-27
	Address Stitti	sui le Di	Date completed	Say Onth year
21 U U U U U U U U U U U U U U U U U U U	Northing  17 18 24	RC Elevation RC	Basin Code ii	iii iv
LOG OF OVI	ERBURDEN AND BEDROCK MA  Other materials		description	Depth - feet
General colour Most common material	Outer materials	30.1012		From To (6
ace limestora				16 61
	<u> </u>			
31 [ ] ] ] ] ] ] ] ] ]				
32 10 14 15 21	32 43 43 43 43 43 43 43 43 43 43 43 43 43	54	ppening 31-33 Diameter	75 80 34-38 Length 39-40
Water found at - feet Kind of water linside diam	ASING & OPEN HOLE RECORD  Wall Depth thickness inches From	- feet Sizes of of (Slot No.)  To Material a		inches feet
10-13 1 AZ Fresh 3 Sulphur 14 Minerals 10-11 1 1 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Steel 12     Galvanized	13-16 Material a	and type	Depth at top of screen 41-44 feet
15-18	Concrete Open hole Plastic  188		PLUGGING & SEALING	
20-23 1 P Fresh 4 D Minerals 2 Salty	] Steel 19 ] Galvanized   ] Concrete	Depth set at	- feet	Abandonment ement grout, bentonite, etc.)
25-28 1   Fresh   3   Sulphur   29   5   5   5   2   Salty   5   24-25   1	Open hole Plastic O	27-30	ZZ Camen	trout
30-33 1 Fresh 3 Sulphur 34 60 2 3 3 3 4 Minerals	Galvanized Concrete Open hole Plastic	18-21 26-29	30-33 80	<u></u>
Pumping test method 10 Pumping rate 11-14 Dr	uration of pumping		ATION OF WELL	
1   Pump 2   Bailer   26 GPM   Statis lovel   Water level   25   Water level during 1   PR	15-16 17-18 Hours Mins 17-19 umping 2/12 Recovery		ATION OF WELL  distances of well from r	road and lot line.
Static even   end of pumping   Water news during   19-21	5 minutes 32-34 60 minutes 35-37	maioato nortir by anon	à i	4
Static even end of pumping water evens during 19-21 22-24 15 minutes 26-28 30 minutes 29-31 45 45 45 45 45 45 45 45 45 45 45 45 45	feet feet feet feet feet feet feet feet		2	
Hecommended pump type Hecommended 19 19 19 19 19 19 19 19 19 19 19 19 19	Clear Cloudy  Recommended 46-49  pump rate	g our or of the second	4	
Shallow Deep feet	26 GPM	>	£	4
FINAL STATUS OF WELL  1/ Water supply 2 Observation well  54 Abandoned, insufficient supply 6 Abandoned, poor quality	/ <sup>9</sup> ☐ Unfinished 10 ☐ Replacement well		106K	90'
3 ☐ Test hole 7 ☐ Abandoned (Other) 4 ☐ Recharge well 8 ☐ Dewatering	. — неріасыпын weii		Floor	Rd.
WATER USE 55:56  y □ Domestic 5 □ Commercial	9 ☐ Not use			
2 Stock 6 Municipal 3 Imigation 7 Public supply ? 4 Industrial 8 Cooling & air conditioning	10 Other			
METHOD OF CONSTRUCTION 57		•		
1 ☐ Cable tool 2 ☐ Rotary (conventional) 3 ☐ Rotary (reverse) 4 ☐ Rotary (reverse) 5 ☐ Air percussion 6 ☐ Boring 7 ☐ Diamond	9		1	237772
<sup>4</sup> ☐ Rotary (air) <sup>8</sup> ☐ Jetting				
Name of Well Contractor A ? r - Roce Dilling Colty	Well Contractor's Licence No.	rce 111	19 Date receipt	
Address RR & 2 Jaspe Ot			Inspector	
Shannon Purce CC	T2122 15	narks	CS	SS.ES2
Signature of Technician/Contractor	Submission date Submission date Submission date			0506 (07/00) Front Form

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Municipality 5003	CON.	1 1	1	POL
10 14	15			22 23 24

County or District						tract survey	, etc.	Lot 25-27		
Ottawa Ca Owner's sumame		First Name	Goulbour Address	n			9	Date	i	24
	ntain Homes		P.O. Box 730		ond,Ontario			completed <sub>2</sub>		mont 2 year
21		Zone Easting	Northing	, , , l l	RC Elevation	RC 	Basin Code		1111   1 1 1	iv
1 2		10 12	RBURDEN AND BED	ROCK MAT	FRIAIS (see inc	tructic	31 ns)			47
General colour	Most common ma		Other materials	ILOUR IVIAII			lescription			pth - feet
General Colour	WADSI COMMINGEN IN						. Josephon		From	То
		Previousle	ey Drilled and	i Plugge	ed .				0	
		Open Hombe	### LUMPA ** .						0	6
		Hole Plug							6	120
							***************************************			
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			<del></del>							
31						سيا			تلل	ا ليليا
32	عبا ليليليا			حبيا لـ		<u></u>	ىلىلل		Щ	75 80
41 WATE	R RECORD		SING & OPEN HOLE			Sizes of or Slot No.)	ening	31-33 Diameter	34-38 Le	ength 39-40
Water found at - feet	Kind of water	Inside diam inches	Material Wall thickness inches	Depth -	To III	•		· ir	nches	feet
	☐ Fresh 3 ☐ Sulphur 10 4 ☐ Minerals ☐ Salty 6 ☐ Gas	4 10-11 1			13-16	Material ar	nd type	İ	Depth at to	op of screen 30 41-44
15 10	Fresh 3 Sulphur 19	9 3 4	Concrete Open hole							feet
ļ	Salty 6 Gas	17-18 1	Plastic Steel  19		20-23 61		LUGGING Annular space	& SEALING	RECOF Abando	
	☐ Fresh <sup>3</sup> ☐ Sulphur <sup>2</sup> ☐ Salty <sup>4</sup> ☐ Minerals ☐ Gas	3 🗆	Galvanized Concrete		De · Fro	oth set at -	feet	erial and type (Cer		
	Fresh 3 Sulphur 2	9 5 🗆	Open hole Plastic			10-13	14-17			
30-33	J Salty 6 ☐ Gas		Steel 20 Galvanized Concrete		1 1	18-21	22-25		•	
1 1 1	☐ Fresh	4	Open hole Plastic			26-29	30-33 80	3.p.		
Pumping test m	nethod 10 Pumping ra	ate 11-14 Dur	ration of pumping	1		l				
71 Pump 2	☐ Bailer	20 GPM	15-16 17-18 Hours Mins	11	In diagram below		ATION OF		and and	lot line
	ena ot pumping	evels during X Pur	· •		Indicate north by			or well from it	au anu	iot iiile.
Salic level 6 19-21 UN 6 2 2 feet  If flowing give r.	22-24 15 minutes 26-2	30 minutes 29-31 45 I	minutes 32-34 60 minutes 35-37	⊅						
6 2 2 feet  If flowing give r.	20 feet 115 fe ate 38-41 Pump intake		60 feet 20 feet ter at end of test 42	/ `						
S II NOWING GIVE I	GPM	feet	☐ Clear <b>X</b> ☐ Cloudy	]	1					
Hecommended p	Dump type Recommen pump settin		ecommended 46-49 ump rate 5 GPM		,					
50-53		30 leet ]	J GPM	<u> </u>	ŧ	1				1
FINAL STATU			0.7.1.5.1.1	1	1	·	7			` 
<sup>1</sup> ▼ Water sup <sup>2</sup> □ Observati <sup>3</sup> □ Test hole	on well 6   Abando	oned, insufficient supply oned, poor quality	<ul> <li>9 ☐ Unfinished</li> <li>10 ☐ Replacement well</li> </ul>		1			- C		
4 ☐ Recharge					•	36	2' /20	o, 		1
WATER USE	55-5		9 ☐ Not use		- 1		***			
1 <b>▼</b> Domestic 2 ☐ Stock 3 ☐ Irrigation	5 ☐ Comme 6 ☐ Municip 7 ☐ Public s	pal	10 Other		1					.
4   Industrial		g & air conditioning								<u> </u>
METHOD OF	CONSTRUCTION 57			11	FI	وسو	Myn	Rd		
1 ☐ Cable too 2 ☐ Rotary (co	onventional) 6 🗌 Boring		9 Driving 10 Digging				•			
3 ☐ Rotary (re 4 ★ Rotary (ai	everse) 7 □ Diamor ir) 8 □ Jetting		11 Other						238	194
				J						
Name of Well Contr		i i	Well Contractor's Licence No.	Data source		15	58	59-62 Date recei		2002
Address	Mater Supply	I-CO.	1558	I I III I Date o	of inspection		spector		- 1	
P.O. Box Name of Well Tech	490 Stittsv	ville, Ontar	rio K2S 1A6 Well Technician's Licence No	Remai	rks				<u> </u>	
S. Mille			T0097	STR.					22	S.ES
Signature of Jechni			Submission date	NIN Remai					J	U.L.U
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	***************************************			· · · · · · · · · · · · · · · · · · ·		25-27
County or District		Township/Borough/City/	Town/Village	L	k tract survey, etc. Lot	25-21
httaua Car	·leton	Goulbourn Address		9		48-53
		Box 190 Carp.	Ontari	o KOA 1LO	completed day88 month2	vear
21	V)	Northing		RC Elevation RC Basin Code		v
1 2	M 10 11	17 18	24 2	25 26 30 31		47
	LOG O	F OVERBURDEN AND BEDR	OCK MAT	ERIALS (see instructions)	Depth - feet	
General colour	Most common material	Other materials		General description	From To	
brown	soil	stones			0 8	
		DCORCO				
grey	limestone			med hard	8 181	
ļ						
	Note: Casing was let	ft. 1 foota above o	round 1	evel at time of dril	ling	
	THE WALL STREET	The second second y		The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon		
31		<u> </u>	i I			1.1
32	<u> </u>					
10 1	4 15 21 51 51	CACING & OPEN LIGHT	J LJ LL	54 Sizes of opening	65 7. 31-33 Diameter 34-38 Length	5 60 39-40
Water found	R RECORD 51 Inside	CASING & OPEN HOLE	Depth -		inches	
at - feet	inches	Material thickness inches	From	To (Slot No.)  Material and type	Depth at top of scree	
lace l'u	Fresh 4   Minerals   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   10-11   1	2 Galvanized	0	21 6 8	41-d	
	Fresh 3 Sulphur 19	4 ☐ Open hole 5 ☐ Plastic	٠			
20.22	Sarry 6 Gas 17-18	1 Steel 19		20-23 61 PLUGGING	& SEALING RECORD  Abandonment	
1/0  2 [	Salty 6 Gas	2 Galvanized 3 Goncrete	21'6	Depth set at - feet Met	erial and type (Cement grout, bentonite,	etc.)
25-28 1 T	Fresh Sulphur 29	9♣☐ Open hole 5 ☐ Plastic		211+6 014-17 are	outed cement (4)	,
2 [	☐ Salty 6 ☐ Gas	2 Galvanized	48	27-30 27-30 3 GFC 18-21 22-25 22-25	Juleu Cement (4)	
	☐ Fresh 3 ☐ Sulphur 34 60 ☐ Minerals ☐ Salty 6 ☐ Gas	3 ☐ Concrete 4 ☐ Open hole	1.	26-29 30-33 80		
	Salty 6 Gas	€ ☐ Plastic				
Pumping test n	I	5 16 17 19		LOCATION OF	WELL	
Static level	Vater level 25 Water levels during	Pumping 2 Recovery		In diagram below show distances Indicate north by arrow.	of well from road and lot line.	
Static level 6	end of pumping 22-24 15 minutes 26-28 30 minutes 29			muicate north by allow.		
Salar lever   6   19-21   24   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21   19-21	50 42 45	48 50	1	N		
If flowing give r	56.11	Water at end of test 42				
S Becommended	GPM fe	eet Clear Cloudy  Clear Cloudy  Recommended  Cloudy			10	
Recommended p	pump setting	pump rate		\	> \	
50-53	75	get 5 GPM			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
FINAL STATU				· , \	61'	
¹ X Water sur ² □ Observati	on well 6  Abandoned, poor quali			` _	4	
<sup>3</sup> ☐ Test hole <sup>4</sup> ☐ Recharge	7 ☐ Abandoned (Other) well 8 ☐ Dewatering			59'	0	>
WATER USE	55-56					
1 Domestic		9  Not use		wood-	side Akros.	
3 ☐ Irrigation 4 ☐ Industrial	7 ☐ Public supply 8 ☐ Cooling & air condition	_		7	· -	
	-	-		g		
	CONSTRUCTION 57 50-181 % Air percussio 0-50	<sup>9</sup> ☐ Driving		4		
¹ <b>X</b> Cable too <sup>2</sup> ☐ Rotary (or <sup>3</sup> ☐ Rotary (re	onventional)  From the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of th	10 Digging		Flewelyn		<b>-</b> 2
4 🗆 Rotary (ai		_ Outgi		,	23824	4
		TW-FS	15	co IControlos	so so I Date received	601
Name of Well Control		Well Contractor's Licence No.	Data source	58 Contractor <b>55 5 8</b>	59-62   Date received   63   SEP   1   6   2002	68 80
Address	ater Supply Ltd.	1 1008	ш Госто	of inspection Inspector		
Box 490 St	ittsville, Ontario	K2S_1A6				
Name of Well Tech	nician	Well Technician's Licence No.	MINISTRY US	rks	000	つり
Signature of Jechn	ician/Contractor	T0097 Submission date	NIS.		しつつ・レー	فكمنسا نتيك
thua		day13 mo 08 yr 02	Σ	4. · · · · · · · · · · · · · · · · · · ·	0506 (07/00) Front	
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Well Record

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Well Location Address of Well	Location (Street Nu	mber/Name	)		Township			Lot		Concession	<u> </u>	oj pozitkih vistikih
	rwood (Lot	43)			Goulbou			23		9		
County/District/N	, ,				City/Town/Vi Stittsv	-			Provin Onf	nce tario	Posta	l Code
UTM Coordinates	Zone Easting		lorthing	1	Municipal Pla		ot Number		Other			<u> </u>
NAD 8 3			501018		**************************************				de referencia est.		MANAGE CONTRACTOR	
General Colour	d Bedrock Mater	non Materia	- 1		o <b>rd</b> <i>(see instr</i> her Materials		back of this form	n) General Description			De	pth ( <i>m/ft</i> )
***************************************				ly Dril				out of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the secon			From	To
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										3	3,32	83.20
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						***************************************						
						****					***	
		Annula	r Space				100	Results of We	ell Yie	ld Testing		
Depth Set at (n	n/ft) 「o	Type of Se (Material a	alant Used			e Placed ³/ft³)	After test of we	ell yield, water was:	Dr Time	raw Down Water Leve		Recovery Water Level
			7.2				☐ Other, sp	ecify	(min)	(m/ft)	(min)	(m/ft)
							If pumping dis	continued, give reason:	Static Level			
									1	11.10	1	24.57
							Pump intake s	set at <i>(m/ft)</i> 0.95	2	12.12	2	22.26
Method o	of Construction			Well Us			Pumping rate		3	13.35	3	19.18
Cable Tool	☐ Diamono	1 == 1		Comme	ercial 🔲	Not used	1	5.5	4	14.49	4	18.98
Rotary (Conver			omestic vestock	☐ Municip☐ Test Ho		Dewatering Monitoring	Duration of pu	min	5	15.41	5	16.58
Boring Air percussion	Digging		igation		& Air Condition	-		el end of pumping (m/ft)	10	19.12	10	
☐ Other, specify			dustrial ther, <i>specify</i>					7 <b>.</b> 32 rate ( <i>l/min / GPM</i> )	15	19.62	15	9.26
	Construction R	ecord - Ca			Status	of Well		, ,	20		20	
Diameter (Ga	en Hole OR Material Ivanized, Fibreglass,	Wali Thickness	Dept From	th ( <i>m/ft)</i> To	Water S     Replace	Supply ement Well	1	d pump depth <i>(m/ft)</i> 9.62	25	20.59	25	8.32
(cm/in) Cor	crete, Plastic, Šteel)	(cm/in)	17000	10	☐ Test Ho	ole	Recommende		30	23.96		8.48
				_	Dewate	-	(Vmin / GPM)	5.5		24.80	30	8.44
						ation and/or ing Hole		n (I/min / GPM)	40	25.52	40	8.31
					Alteration (Constru		Disinfected?		50	26.03	50	8.26
					Abando		X Yes		60	27.32	60	8.24
Outside '	Construction R	ecord - Scr	7	h ( <i>m/ft</i> )	☐ Abando Water 0	ned, Poor	Please provide	Map of We a map below following			ack	
Diameter	Material tic, Galvanized, Steel)	Slot No.	From	То		ned, other,	'					
					Specify					1		
					Other, s	specify				,,		1
	Water Det	ails		F	lole Diamet	ter		#14	X	RUE		1
	epth Kind of Wate		X] Untested	J Dep	th ( <i>m/ft)</i>   To	Diameter (cm/in)		HOUSE				, -
Water found at D	Gas Other, spe	r: Fresh	▼ Untested		83.20	15.23		LOT # 43		1		
81.98 <sub>(m/ft)</sub>	Gas Other, spe	cify			100.20	13.23		_		071		
	epth Kind of Water		Untested	I						100		
(111/14)	Well Contracto		Technicia	in Informa	tion							
Business Name o	f Well Contractor				ell Contractor's		-	FLEWELL	IN	ROAD		
	ter Supply (Street Number/Na			Mi	1 5 unicipality	5 8	Comments:	/				
Box 490		ŕ	******		Stittsv:	ille						
Province Ontario	Postal Code K2S  1 A6	1	s E-mail Add	dress			Well owner's	Date Package Delivere	<u>, 1</u>	B#1212	(20071120	
	(inc. area code) Na	me of Well	Technician (	ipitalwa Last Name,	ater.ca First Name)		information	1 1		Audit No.	try Use	Only
61 3  836   17	66	Midler/	, Steph	en			delivered	2/ 0 1 1 1 1 1 1 1 Date Work Completed	J 2	Z ;	139	9723
0   0   9	7   Signature	M / M	an and/or C		te Submitted   이 기 기 네		No No	2 0 1 1 1 1	0,2	FI Received	EB 0 !	9 2012
		11211		14	<u></u>					and the second second second second second	- construction (III)	section and the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the secti

Ministry of	icker and/or Print Below)	Well Record Regulation 903 Ontario Water Resources Act				
Ontario Willistry Of the Environment	101761	MW 14+801/12	1		e ] of/_	
Measurements recorded in: 🔀 Metric 🗌 Imperial	A136701	PW 19470017K	<u> </u>	, 49		
Well Owner's Information  First Name  Last Name / Organization  City OF Otto		E-mail Address		a abases popul	Well Constructed by Well Owner	
Mailing Address (Street Number/Name)	Municipality	Province C)	Postal Code K2G6		e No. (inc. area code)	
100 CONSTELLATION (RESCENT	6.TTAN	( <del>)</del>				
Well Location Address of Well Location (Street Number/Name)	Township		Lot	Concessi	on	
FLEWELLY ROAD /SHEA ROAD County/District/Municipality	City/Town/Village			Province Ontario	Postal Code	
UTM Coordinates   Zone   Easting   Northing		nd Sublot Number		Other		
NAD   8   3   1   8   4   3   0   5   1   5   5   0   1   0   0    Overburden and Bedrock Materials/Abandonment Se	8 9 9	ns on the back of this form)				
General Colour Most Common Material	Other Materials	Gene	eral Description		Depth (m/ft) From To	
	AAVELLY SOND, TRA	CE SINT			0.0	
	ANDY SILT, GRAV	EL LOOSE	E TO DEA	ISE	0.6 4.1	
	ILTY SAND, GRAVE		1 DENSE		4.1 5.1	
3.0	/					
Annular Space				ell Yield Testir		
Depth Set at (m/ft) Type of Sealant Used From To (Material and Type)	Volume Pla (m³/ft³)			Time Water Le	evel Time Water Level	
		Other, specify	· · · · · · · · · · · · · · · · · · ·	(min) (m/ft)	) (min) (m/ft)	
O O. BENTON ITE		If pumping discontinu	ued, give reason:	Level		
				1	1	
		Pump intake set at	(m/ft)	2	21	
	727.00%	Pumping rate (Ilmin	/ GPM)	3	3	
Method of Construction  ☐ Cable Tool ☐ Diamond ☐ Public	Well Use  ☐ Commercial ☐ No	t used		4	4	
Rotary (Conventional) Jetting Domestic	Municipal De	watering Duration of pumping	g min	5	5	
☐ Rotary (Reverse) ☐ Driving ☐ Livestock ☐ Boring ☐ Digging ☐ Irrigation	☐ Test Hole	g Final water level end	of pumping (m/ft)	10	10	
☐ Air percussion ☐ Other, specify ☐ Other, specify ☐ Other, specify		If flowing give rate (	Umin I GPKI)	15	15	
Construction Record - Casing	Status of		mininer Gryvi)	20	20	
Inside Open Hole OR Material Wall Dep Diameter (Galvanized, Fibredlass, Thickness	th ( <i>mlft</i> )		pp depth (m/ft)	25	25	
(cmlin) Concrete, Plastic, Steel) (cmlin) From	☐ Test Hole	Recommended pur	np rate	30	30	
5,08 PVC SCHED O	3. 6 Recharge N	Vell (Ilmin / GPM)/				
	✓ Observation  Monitoring	I I I I O II PI G G G G G G G G G G G G G G G G G	nin I GPM)	40	40	
	Alteration (Constructi	Disinfoctod?		50	50	
	Abandoned	, Yes No		60	60	
Construction Record - Screen	Insufficient  Abandoned	I, Poor		ell Location	ne hack	
Diameter (Plastic Galvanized Steel) Slot No.	th ( <i>m/ft</i> ) Water Qua	"ty	th perow roughwing	j instructions on t	1 A	
(cmin)	specify					
5.8 pvc 10 3.6	5 - Other, spec	cify				
Water Details  Water found at Depth Kind of Water: Fresh Untester		iameter	Washington Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of			
(mlft) Gas Other, specify	From To	(cm/in)	FLEL	WELLYN 08/14+281		
Water found at Depth Kind of Water: Fresh Untester	d	SMES	<u> </u>	14+281	aders and the stranger and an above from the stranger and default also the stranger and default and stranger and an above and an above and an above and an above and an above and an above and an above and an above and an above and an above and an above and an above and an above and an above and an above and an above and an above and an above and an above and an above and an above and an above and an above an above and an above and an above and an above and an above and an above and an above and an above and an above and an above an above and an above and an above and an above an above and an above an above and an above and an above an above and an above and an above an above and an above an above an above and an above an above and an above and an above and an above and an above and an above and an above and an above and an above and an above and an above and an above and an above and an above and an above and an above and an above and an above and an above and an above and an above and an above and an above and an above and an above and an above and an above and an above and an above and an above and an above and an above and an above an above and above and an above and an above and an above and an above and an above and an above and an above and an above and an above and an above and an above and an above and an above and an above and an above and an above and an above and an above and above an above and an above and an above and an above an above an above and an above and an above an above and an above and an above and an above and an above and an above and above an above an above and above an above and above an above and above an above and above an above and above an above and above an above and above an above and above an above and above an above and above an above and above an above and above an above and above an above an above an above and above an above and above an above and above an above an above and above an above an above an above and above an above above and above an above an above an above and abo	
(m/ft) ☐ Gas ☐ Other, specify  Water found at Depth Kind of Water: ☐ Fresh ☐ Untester	d	- N	MW 12-	y ,		
(m/ft) Gas Other, specify	-					
Well Contractor and Well Technici Business Name of Well Contractor	an Information  Well Contractor's Lice	ence No.				
Business Address (Street Number/Name)	Municipality	Comments:				
Business Address (Street Number/Name)  HO RVE PRINCIPALE GREN  Province Postal Code Business E-mail Ac	VILLETSOR-LA-YO	NGE MW 12-20	SEE AT	TACHEDF	tuso	
QC JOVIBO downing	a Cabawk	Well owner's Date information	Package Deliver	ed <b>Mi</b>	nistry Use Only	
Bus. Telephone No. (inc. area code) Name of Well Technician.	(Last Name, First Name)	package delivered	Y   Y   Y   M   M	D D Audit No		
Well Technician's Licence No. Signature of Technician and/or C	Contractor Date Submitted	Yes Date	Work Completed		161278	
	20113012		0/1/3/0/5	213 Receive	VUG 0 7 2013	
0506E (2007/12) © Queen's Printer for Ontario, 2007	Ministry's	CODV				

OI Measureme	Ministry of the Environment and Climate Change  Mell Tag No. (Place Sticker and/or Print Below)  N/A  Regulation 903 Ontario Water page					ell Record er Resources Act		
Well Owr	er's Information							
First Name	Last Name / Organization J.P. Chenier (	Company Ltd C	E-mail Address  13843	41 Auto	i Well C	onstructed Owner		
Mailing Add	ress (Street Number/Name) 4 Cavanagh Road	Municipality AShTON	Province ON	Postal Code KUA IBO	Telephone No. (inc. a			
Well Local	tion VellLocation (Street Number/Name) 9 Fembank Road	Township Goulbourn		Lot P/L 3	Concession			
County/Dist	rict/Municipality awa-Carleton	City/Town/Village Stittsville			ario	Code		
NAD				Other	•			
Overburde General Co	n and Bedrock Materials/Abandonment Sealing F	Record (see instructions on the Other Materials		ral Description	Dept From	h ( <i>m#</i> £)>		
		UED WELL			0'	271		
	monitoring well							
	V							
	Annular Space		227.022.020.02277.02010.000277.001777.0072.0072	Results of Well Yie		All (2) (2)		
Depth Se	t at (m Type of Sealant Used To (Material and Type)	Volume Placed (m³/ft³)	After test of well yield,  Clear and sand t		raw Down Re Water Level Time	ocovery Water Level		
21'	6' 3/8 Hole-Plue	1 Bas		Ctotic		(m/ft)		
/ (	o' Brek full	- (-3	If pumping discontinue	ed, give reason: Leve				
_ <del>b</del> `_	C Dec p		-	1	1			
			Pump intake set at (/	n/ft) 2	2			
SALAK.	od of Construction We	ell Use	Pumping rate (l/min /	GPM) 3	3			
Cable To		ommercial Not used	Duration of numbing	4/	4			
Rotary (6		unicipal Devlatering est Hole Monitoring	Duration of pumping hrs +	nin 5	5			
Boring	☐ Digging ☐ Irrigation ☐ Co	pooling & Air Conditioning	Final water level end	of pumping (m/fi) 10	10			
☐ Air percu ☐ Other, sp	1		If flowing give rate (V	min / GPM) 15	15			
50 W 50 C	Construction Record - Casing	Status of Well	99170 1310 10	20	20			
Inside Diameter	Open Hole OR Material Wall Depth (m/ft) (Galvanized, Fibreglass, Thickness	☐ Water Supply ☐ Replacement Well	Recommended pum	depth (m/ft) 25	25			
(cm/in)	Concrete, Plastic, Steel) (cm/in) From	Test Hole	Recommended oum					
		Recharge Well Dewatering Well	(l/min / GPM)	40				
		Observation and/or Monitoring Hole	Well production (I/mi	n / GPM)				
		Alteration (Construction)	(Sinfected?	50	-			
		Abandoned, Insufficient Supply	Yes No	60	<u> </u>	2105000 massaure of 1920		
Outside	Construction Record - Screen  Material Depth (m/fi)	Abandoned, Poor	Please provide a mar	Map of Well Lo below following instruc	····			
Diameter (cm/in)	Slot No.	Abandoned, other, specify		•		١ _		
	Neu		tion		15	1		
		☐ Other, specify			<u></u>	#		
	Water Details	Hole Diameter			aKM	1 4		
Water four	d at Pepth Kind of Water: Fresh Untested	Depth (m/ft) Diameter rom To (cm/in)		0.	akm	المح الم		
•	d at Depth Kind of Water: Fresh Untested	(and the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of				亡あ		
	n/ft)  Gas  Other, specify		\_4	1	19	35		
•	d at Depth Kind of Water: Fresh Untested			1 60 d	whom)	# 9		
<u> </u>	/ft) Gas Other, specify  Well Contractor and Well Technician Info	ormation		the 62 PERIBA	VLI	三洲		
Business N	ame of Well Contractor. ock Drilling Co. Ltd.	Well Contractor's Licence No.		YEL		$I_{\Lambda_0}$		
	ddress (Street Nicksel/Naihe)	Municipality	Comments:			1		
665	9 Franktown food	Richmond						
Province	Postat Codez Business E-mail Address	sympatico.ca		Package Delivered	Ministry Use	Only		
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Ontario Ministry of the Environment and Climate Change	ntario and Climate Change					Meli Record  Regulation 903 Ontario Water Resources Act					
Measurements recorded in:     Metric   Imperial	HA13 110			1-21	799	Page		of			
Well Owner's Information  First Name   Corganize   Cor	0.7	/	E-mail Address								
Davidson C	o-Tenancy/	clo I	artan 1	inds Cor	sulft			onstructed Owner			
Mailing Address (Street Number/Name)	Municipality	-/-	Province	Postal Code		elephone No.	-				
237 Somerset St. W	Lotta	Wa		K121P1a			A STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STA	NAME OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PR			
Address of Well Location (Street Number/Name)	Township			Lot	- Ic	oncession					
Shea and ferabant Ha	ewellyn										
County/District/Municipality	City/Town/Villa				Province		ostal (	Code			
UTM Coordinates Zone Easting Northing	SHTTSV , Municipal Plan	and Sublot N	Number		Other	110	ــــــــــــــــــــــــــــــــــــــ				
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Overburden and Bedrock Materials/Abandonment S		ctions on the b	3-3		(i) (i) (i)		Dooth	(m/ft)			
General Colour Most Common Material	Other Materials			eral Description		Fr	om Debii	1 (m/ft) 10			
BRN top soll	-11 7		sold					<u> 25 /</u>			
BRN Sand	olt, stones		solt		<del></del>	. 3	<b>)</b>	1.49			
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Depth Set at (m/ft) Type of Sealant Used From To (Material and Type)	ا Volume (m³/		After test of well yield,  Clear and sand			w Down Water Level 1	******************	covery Vater Level			
0 31 congreta/mone	ment		Other, specify		(min)	1	min)	(m/ft)			
.3/ 5.49 Dentonite			lf pumping discontinu	ed, give reason:	Static Level						
C 1016 M Pall					1		1				
5.47/0.06 filter Sand			Pump intake set at (n	ı/fi)	2		2				
			Pumping rate (I/min / (		3		3				
Method of Construction  ☐ Cable Tool ☐ Diamond ☐ Public	Well Use ☐ Commercial ☐ !	Not used	, 5 ,	,	4		4				
Rotary (Conventional) Jetting Domestic	Municipal ,	Dewatering	Duration of pumping hrs +	min	5		5				
☐ Rotary (Reverse)     ☐ Driving     ☐ Livestock       ☐ Boring     ☐ Digging     ☐ Irrigation	Test Hole	Monitoring   ing	Final water level end		10		10				
☐ Air percussion ☐ Industrial ☐ Other, specify ☐ Other, specify	·										
Construction Record - Casing	Status		If flowing give rate (Vn	nin / GPM)	15		15				
Inside Open Hole OR Material Wall De	pth ( <i>m/fit</i> )	20000000000000000000000000000000000000	Recommended pump	depth (m/ft)	20		20				
Diameter (Galvanized, Fibreglass, Concrete, Plastic, Steel) (cm/in) From	To Replace	. 11			25		25				
3,20 PUC .390 O	7 () Recharg	e Well	Recommended pump (I/min / GPM)	rate	30		30				
	Dewater Observa		Well production (I/min	(CPM)	40		40				
	Monitorir  Alteration	ng Hole	weit production (intilin	/ GFWI)	50		50				
	(Constru	ction)	Disinfected? Yes No		60		60				
Construction Record - Screen	HEROE & CONTROL OF BECOMES OF A 12 HOUSE OF \$1	nt Supply		Map of W	all I nea	tion	DIRECTOR OF				
Outside Material De			Please provide a ma				back.				
Diameter (cm/in) (Plastic, Galvanized, Steel) Slot No. From	To Abandor specify	ned, other,		X.,							
6 03 PVC 10 7.6	110.06			Hydr	0		A	1			
	Other, sp	pecify		Tower	د			V			
Water Details	Hole Diamete	31	TO Y					مر			
Water found at Depth Kind of Water: Fresh Uniteste		Diameter (cm/in)	T XX				,				
(m/ft) Gas Other, specify Water found at Depth Kind of Water: Fresh Unteste		1147	$\wedge$	6m 8	.11						
(m/ft) Gas Other, specify	6.1 10.06	7.62			120,		-A				
Water found at Depth Kind of Water: Fresh Uniteste	o (2-/ 10-00)	1,00	X			/ Il W	1/				
(m/ft) Gas Other, specify						v /	<b>Y</b>				
Well Contractor and Well Technic Business Name of Well Contractor	lan Information Well Contractor's	Licence No.	*		1	-ewally					
Strate Drilling Grosp	J   2   <sup>4</sup>	111			٢ '	/					
Business Address (Street Number/Kame)	Municipality	ا ا	Comments:								
Province Postal Code Business E-mail A	Markho	1 11									
ON LISKIDULLWIELDI	ds@Strutesai	- Com	Well owner's Date I	Package Delivere	1 122	Ministr	/ Use	Only			
Bus, Telephone No. (inc. area code) Name of Well Technician $ 9 05 9 4 0 7 9 1 9$	(Mast Name, First Name)	111	package delivered	Y   Y   M   M		Audit No. 🎢 🚄	. 7 1	108			
Well Technician's Licence No. Signature of Technician and/or (			☐ Yes Date Y	Nork Completed		AUG 2	0 20	18			
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