

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.R2 dated August 7, 2024



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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
- **D**elineation of the aquifer
- □ Vulnerability of aquifers encountered
- **D** 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)
- 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 Revision 4 Flewellyn Road -(August 7, 2024)
- 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 - Stittsville Main Street (January 2013) - As part of D07-16-13-0033.
- 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.



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 - 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



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.

Based on the above test methods, the overburden and bedrock monitoring wells displayed hydraulic conductivity values ranging from 4.2×10^{-6} to 2.2×10^{-5} m/sec and 4.3×10^{-7} to 1.6×10^{-4} m/sec, 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 1.1×10^{-7} to 6.4×10^{-6} m/sec at a depth of 0.3 m and $\leq 8.3 \times 10^{-9}$ to 5.9×10^{-6} 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 (²H) and oxygen-18 (¹⁸O), are a useful tool to trace the water cycle and identify potential groundwater recharge and/or discharge zones. The ²H and ¹⁸O signature of local meteoric water will vary seasonally, apposed to the ²H and ¹⁸O 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 (²H) and oxygen-18 (¹⁸O), 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 Stormwater Management Pond (SWMP) 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 development. Shea Road is located to the west of the proposed residential development while Flewellyn Road is located to the south.

The subject site has topographical relief extending from the west corner of the site that ranges from approximatly109 m asl down to 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 noncohesive 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 - 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.



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 4.2×10^{-6} m/sec to 2.2×10^{-5} m/sec while the hydraulic conductivity of the bedrock were observed to range between 4.3×10^{-7} to 1.6×10^{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 1.1×10^{-7} to 6.4×10^{-6} m/sec at a depth of 0.3 m and $\leq 8.3 \times 10^{-9}$ to 5.9×10^{-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 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 ¹⁸O

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 ²H and ¹⁸O 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 ²H and ¹⁸O signature that is similar to the ²H and ¹⁸O isotopes associated with that specific event. However, groundwater will generally have a ²H and ¹⁸O signature similar to the average ²H and ¹⁸O value of the LMWL. Therefore, it is expected that precipitation derived water ²H and ¹⁸O 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 ²H and ¹⁸O 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 ²H and ¹⁸O 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: $\delta^2 H/\delta^{18}O$ 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



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 4.2×10^{-6} m/sec to 2.1×10^{-5} m/sec while the hydraulic conductivity of the bedrock was observed to range between 4.3×10^{-7} m/sec to 1.6×10^{-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



implemented in accordance with Environment Canada's Code of Practice for the Environmental Management of Road Salts (ECC PEMRS) dated 2004.

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



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.



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.



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 HYDRAULIC GRADIENT SUMMARY

Table 1 - Mo	onitoring Well Water L	evel Mea	suremen	t Summa	ry										
	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	1.16 106.03	0.90	2.61	0.60	2.12	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	0.95	0.92	N/A N/A	0.46	1.98 102.72	0.28	1.35 105.97	1.43 105.88	1.52	0.61	0.40	3.65 102.07	1.64 104.06
04-Apr-23	GW Level (m bgs) GW Elevation (m asl)	0.09	0.33	0.52	1.77	-0.03 103.10	1.20 103.51	0.14	0.83	0.94	0.59	0.11	0.00	3.08 102.64	0.90
31-Mav-23	GW Level (m bgs) GW Elevation (m asl)	0.97	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



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	-
able 2 - Single Well Response Test Results	SII

Table 2 - Sir	ngle Well Response	Test Result	s Summary			
Test Hole ID	Ground Surface Elevation (m asl)	Screened Interval (m bgs)	Hydraulic Conductivity (m/s)	Test Type	Screened Media	
			1.2x10 ⁻⁵	Falling Head		
			1.5x10 ⁻⁵	Falling Head		
BH1-22	107.31	7.5 - 9.0	1.6x10 ⁻⁵	Falling Head	Bedrock	
			1.9x10 ⁻⁵	Rising Head		
			1.5x10 ⁻⁵	Rising Head	_	
BH2-22	103.58	7.5 - 9.0	8.9x10 ⁻⁶	Falling Head	Bedrock	
DN2-22	103.56	7.5 - 9.0	9.1x10 ⁻⁶	Rising Head	Deulock	
BH3-22	102.25	7.5 - 9.0	6.0x10 ⁻⁵	Falling Head	Podrook	
DПЭ-22	102.25	7.5 - 9.0	6.6x10 ⁻⁵	Rising Head	Bedrock	
BH3A-22	102.25	1.7 - 3.2	4.2x10 ⁻⁶	Falling Head	Silty Sand to Sandy Silt &	
DH3A-22	102.25	1.7 - 3.2	4.8x10 ⁻⁶	Rising Head	Glacial Till	
	405 74	75 00	8.7x10 ⁻⁷	Falling Head	Deducal	
BH4-22	105.71	7.5 - 9.0	9.1x10 ⁻⁷	Rising Head	Bedrock	
			1.2x10 ⁻⁵	Falling Head	Dedreek	
		75 00	2.0x10 ⁻⁵	Falling Head	Bedrock	
BH5-22	105.70	7.5 - 9.0	1.4x10 ⁻⁵	Rising Head	Dedreek	
			1.5x10 ⁻⁵	Rising Head	Bedrock	
	400 70	04 07	2.2x10 ⁻⁵	Falling Head		
HA1-22	106.78	0.4 – 0.7	8.8x10 ⁻⁶	Rising Head	Silty Sand	
	404.00		1.4x10 ⁻⁴	Falling Head	Dedreek	
BH1-21	104.29	2.8 - 5.8	1.1x10 ⁻⁴	Rising Head	Bedrock	
			4.0x10 ⁻⁵	Falling Head		
	407.40		4.0x10 ⁻⁵	Falling Head	Dedreek	
BH2-21	107.19	2.6 - 5.6	3.9x10 ⁻⁵	Rising Head	Bedrock	
			4.1x10 ⁻⁵	Rising Head		
BH3-21	108.41	2.7 - 5.7	3.0x10 ⁻⁶	Falling Head	Bedrock	
BH22A-21	102.98	7.2 - 10.2	4.3x10 ⁻⁷	Falling Head	Bedrock	
			6.0x10 ⁻⁵	Falling Head		
	402.07	40.70	7.3x10 ⁻⁵	Falling Head	Dedreek	
BH24-21	103.07	4.9 - 7.9	5.8x10 ⁻⁵	Rising Head	Bedrock	
			5.7x10 ⁻⁵	Rising Head	1	
BH33-21	104.70	3.3 - 6.3	1.6x10 ⁻⁴	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 _{fs} (m/s)*	Unfactored Infiltration Rate (mm/hr)**
BH1-21	103.90	Brown Silty Sand	2.1x10 ⁻⁶	56
DITI-ZT	103.63	Brown Silty Sand	1.9x10 ⁻⁶	56
BH2-21	106.95	Brown Silty Sand	6.4x10 ⁻⁶	76
DHZ-ZI	106.65	Brown Silty Sand	5.3x10 ⁻⁷	39
BH7-21	106.74	Brown Silty Sand	1.1x10 ⁻⁶	47
DI17-21	106.44	Brown Silty Sand	1.6x10 ⁻⁶	52
BH11-21	104.68	Brown Silty Sand	2.7x10 ⁻⁶	60
	104.38	Brown Silty Sand to Sandy Silt	1.6x10 ⁻⁶	52
BH15-21	102.70	Brown Silty Sand to Sandy Silt	2.1x10 ⁻⁷	31
DH10-21	102.48	Brown Silty Sand to Sandy Silt	< 8.1x10 ⁻⁹	≤ 13
BH17-21	106.74	Brown Silty Sand to Sandy Silt	5.9x10 ⁻⁶	74
DI117-21	106.44	Brown Silty Sand to Sandy Silt	4.1x10 ⁻⁶	67
BH22-21	102.58	Brown Silty Sand	1.1x10 ⁻⁶	47
DN22-21	102.28	Brown Silty Sand	1.6x10 ⁻⁶	52
	102.33	Brown Silty Clay w/ Sand	5.3x10 ⁻⁷	39
BH23-21	101.70	Brown Silty Clay	< 8.1x10 ⁻⁹	≤ 13
BH26-21	102.74	Brown Silty Clay w/ Sand	1.1x10 ⁻⁷	26
DH20-21	102.44	Brown Silty Clay w/ Sand	1.1x10 ⁻⁷	26
BH29-21	101.87	Brown Silty Sand to Sandy Silt	5.3x10 ⁻⁷	39
DΠΖΫ-ΖΙ	101.57	Brown Silty Sand to Sandy Silt	2.7x10 ⁻⁷	33
BH31-21	103.19	Brown Silty Sand to Sandy Silt	1.1x10 ⁻⁶	47
DH31-21	102.89	Brown Silty Sand to Sandy Silt	1.4x10 ⁻⁷	27
	103.21	Brown Silty Sand to Sandy Silt	5.3x10 ⁻⁶	72
BH37-21	102.91	Brown Silty Sand to Sandy Silt	5.9x10 ⁻⁶	74

*Field hydraulic conductivity (Kfs)

**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 -	Horizontal Hydraulic Gra	adient Sum	mary			
	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

*Hydraulic Gradient = (GW Elevation Well 'A' - GW Elevation Well 'B') / Distance



	- Horizontal Hydraulic G					
	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

*Hydraulic Gradient = (GW Elevation Well 'A' - GW Elevation Well 'B') / Distance



	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

*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^2 H/ δ^{18} O RESULTS

FIGURE 14: BH2-21 δ²H/δ¹⁸O RESULTS

FIGURE 15: BH5-22 δ²H/δ¹⁸O RESULTS

FIGURE 16: BH1A-22 δ²H/δ¹⁸O RESULTS

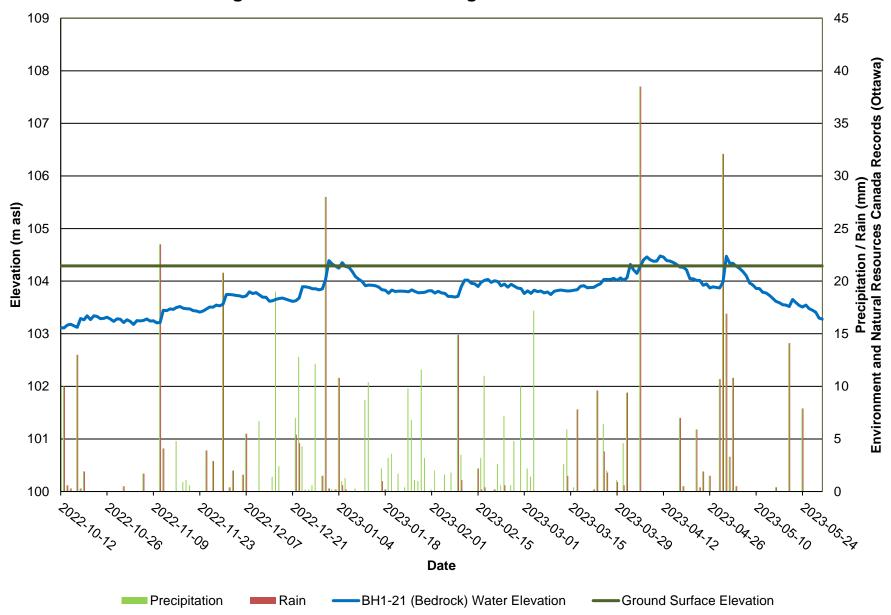


Figure 1: BH1-21 - Monitoring Well Water Elevations



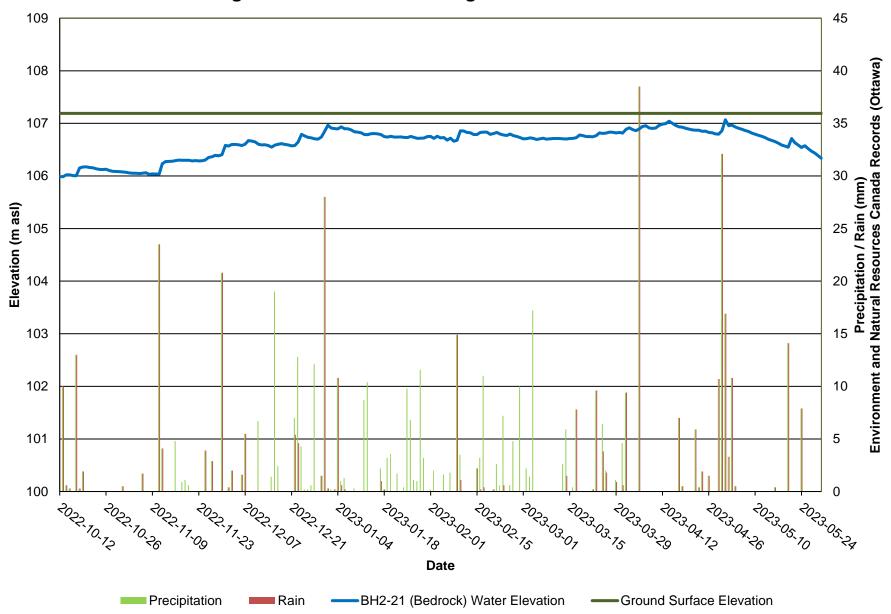


Figure 2: BH2-21 - Monitoring Well Water Elevations



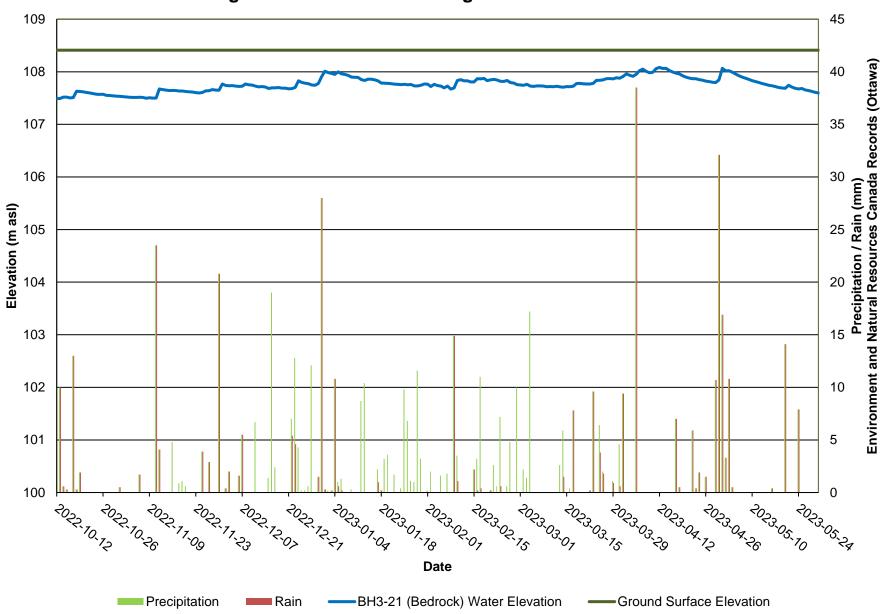


Figure 3: BH3-21 - Monitoring Well Water Elevations



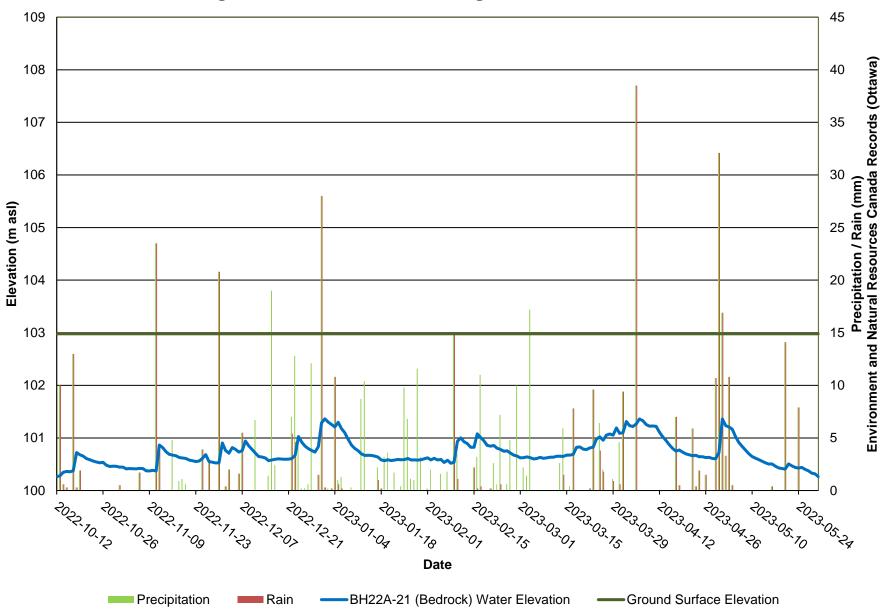


Figure 4: BH22A-21 - Monitoring Well Water Elevations



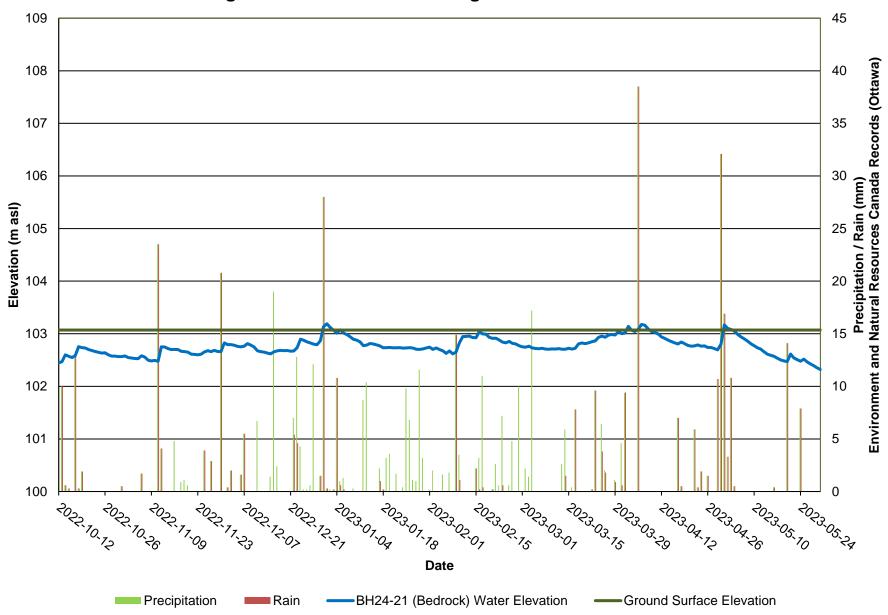


Figure 5: BH24-21 - Monitoring Well Water Elevations

PATERSON

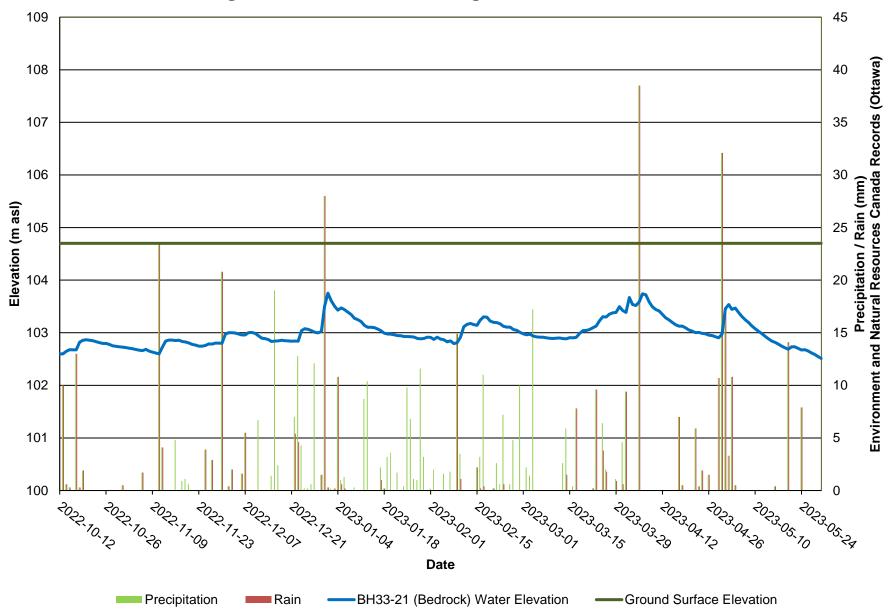


Figure 6: BH33-21 - Monitoring Well Water Elevations



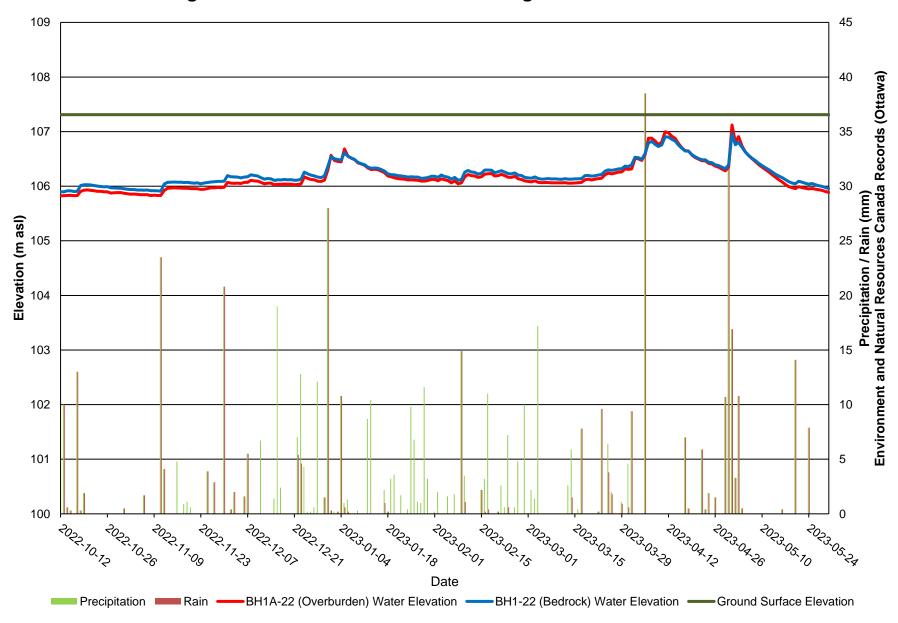


Figure 7: BH1-22 & BH1A-22 - Monitoring Well Water Elevations



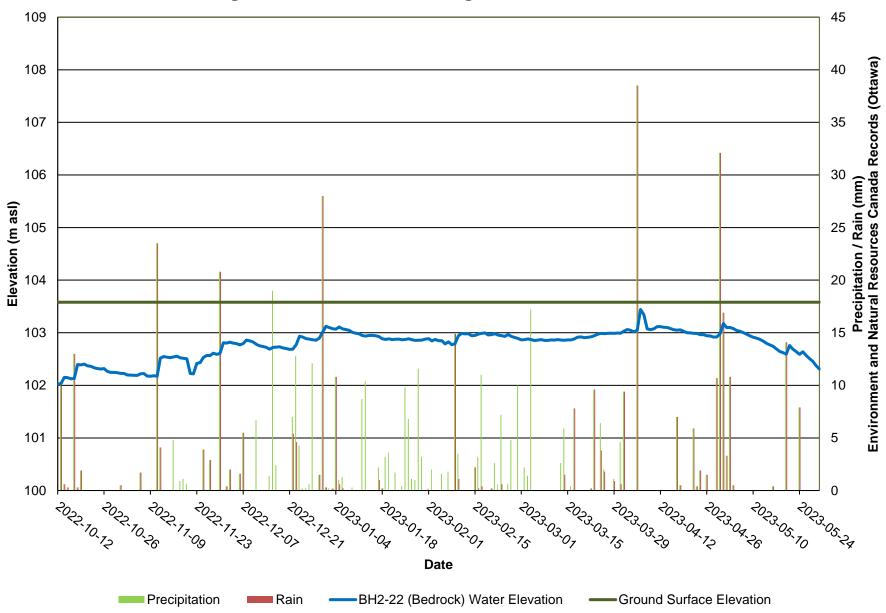


Figure 8: BH2-22 - Monitoring Well Water Elevations

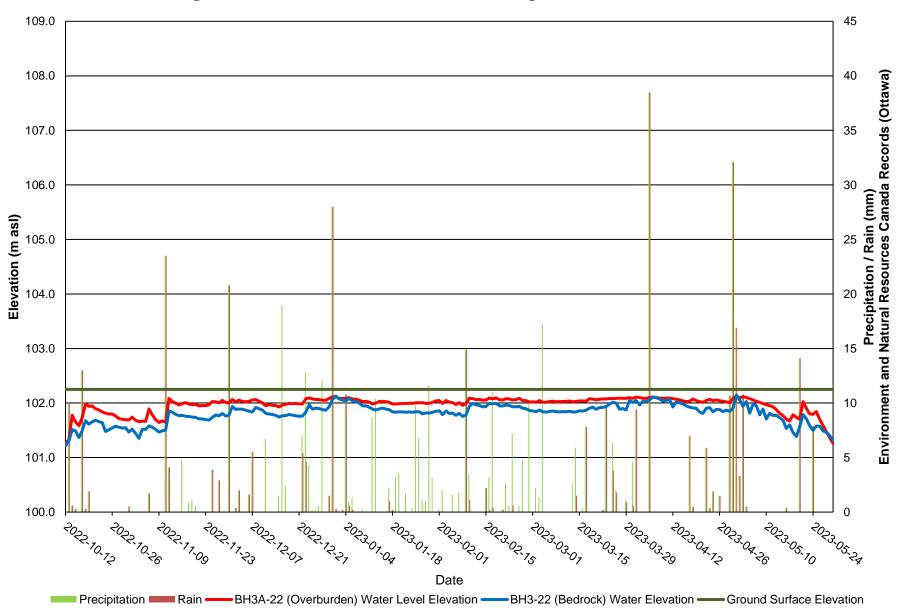


Figure 9: BH3-22 & BH3A-22 - Monitoring Well Water Elevations



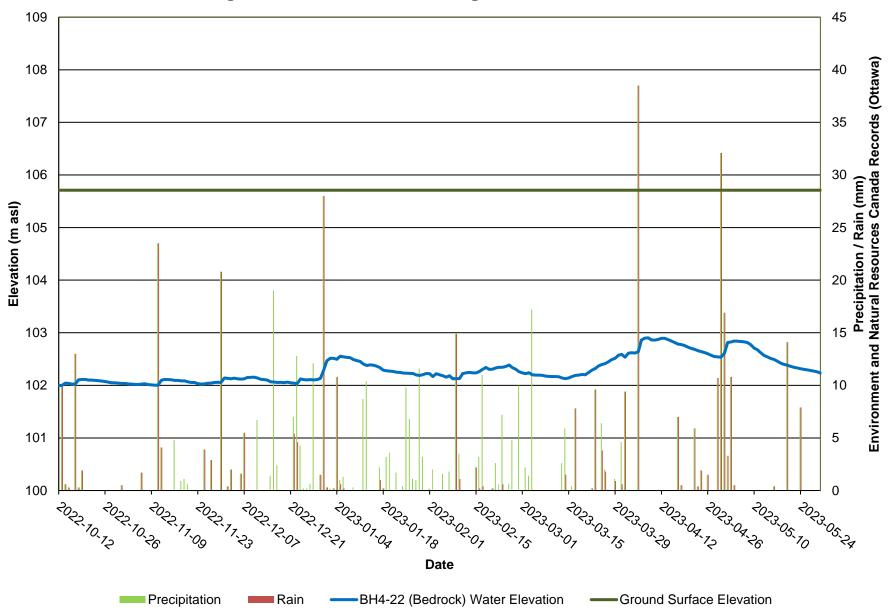


Figure 10: BH4-22 - Monitoring Well Water Elevations



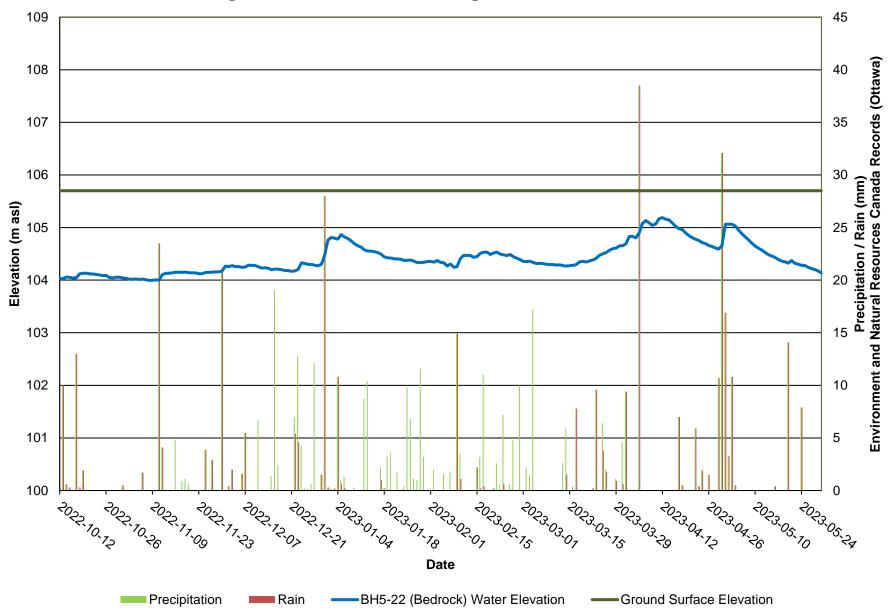


Figure 11: BH5-22 - Monitoring Well Water Elevations



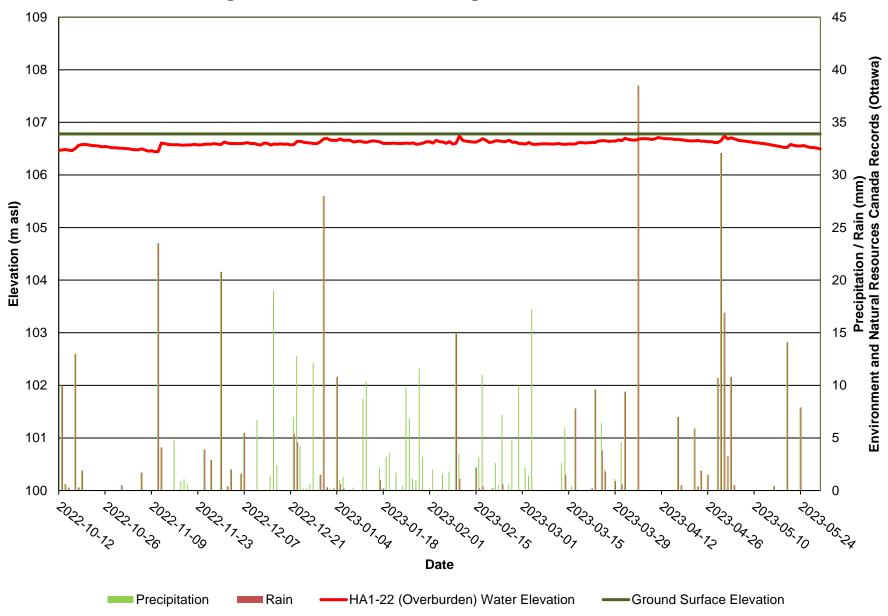


Figure 12: HA1-22 - Monitoring Well Water Elevations



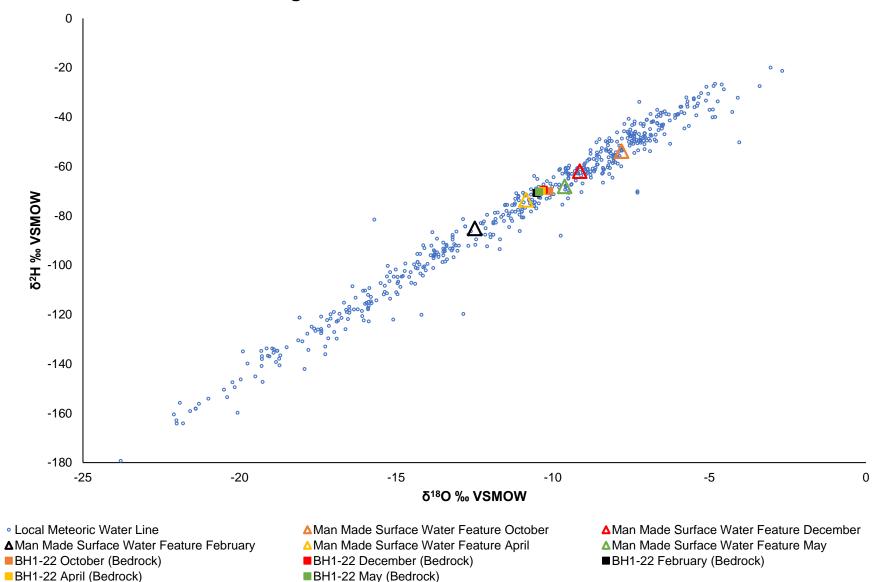


Figure 13: BH1-22 δ²H/δ¹⁸O Results



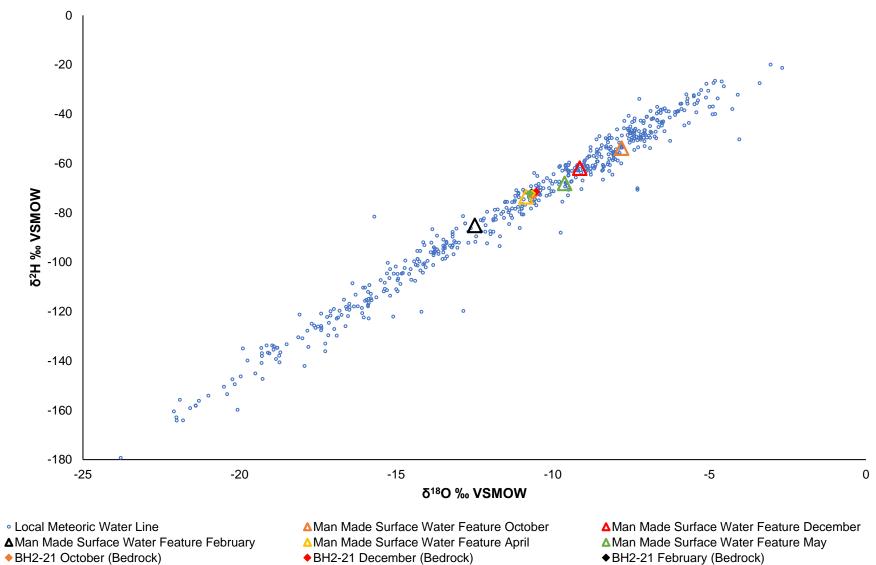


Figure 14: BH2-21 δ²H/δ¹⁸O Results

 BH2-21 October (Bedrock) BH2-21 April (Bedrock)

BH2-21 May (Bedrock)



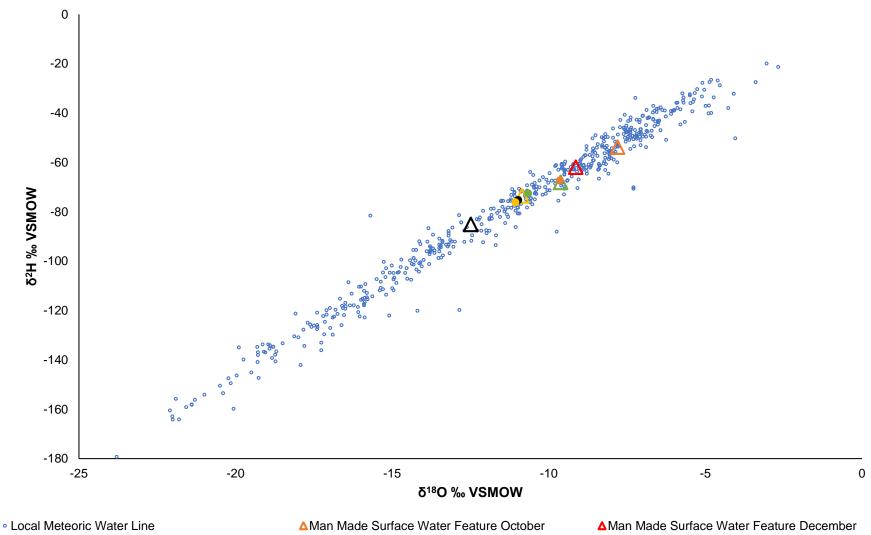


Figure 15: BH5-22 δ^2 H/ δ^{18} O Results

Local Meteoric Water Line
 Man Made Surface Water Feature February
 BH5-22 October (Bedrock)

BH5-22 May (Bedrock)

▲Man Made Surface Water Feature October
 ▲Man Made Surface Water Feature April
 ●BH5-22 February (Bedrock)

▲Man Made Surface Water Feature December
 ▲Man Made Surface Water Feature May
 ●BH5-22 April (Bedrock)



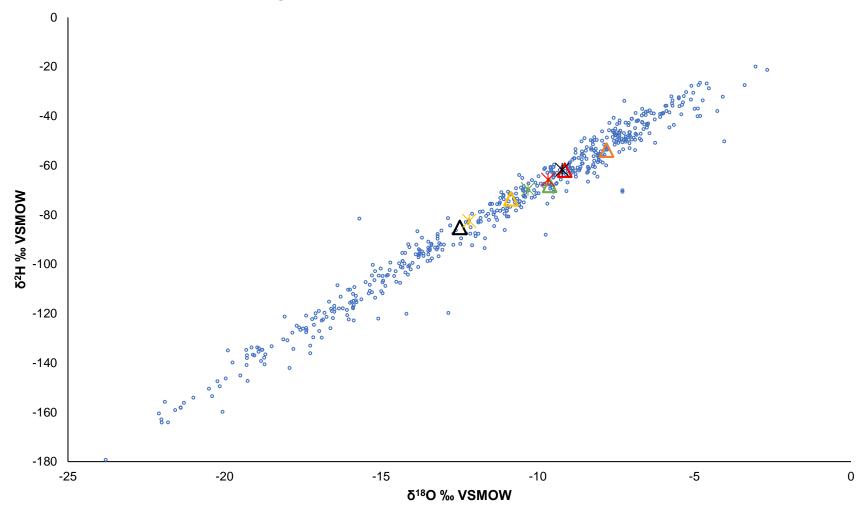


Figure 16: BH1A-22 δ²H/δ¹⁸O Results

Local Meteoric Water Line
 Aman Made Surface Water Feature February
 BH1A-22 December (Overburden)
 BH1A-22 May (Overburden)

▲Man Made Surface Water Feature October
 ▲Man Made Surface Water Feature April
 *BH1A-22 February (Overburden)

▲Man Made Surface Water Feature December
 ▲Man Made Surface Water Feature May
 ★BH1A-22 April (Overburden)





APPENDIX 1

PATERSON - TERMS OF REFERENCE

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

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



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4.2	Hydrogeological Investigation	. 3
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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)
- D 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
 Stittsville Main Street (January 2013) As part of D07-16-13-0033.

- 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.

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.
- □ Boreholes were cored into the bedrock at select locations.

The 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.

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.
- □ Slug testing to determine hydraulic conductivities and aquifer characteristics within the formations/horizons deemed necessary and sieve analyses completed under the existing geotechnical report.
- Groundwater level measurement and recording of seasonal fluctuations.
- Permeameter testing will be completed at locations across the subject site within the overburden accessible from the existing ground surface as per best practices.

Evaluation of the hydrogeological conditions will consist of an evaluation of the groundwater 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.
- **D** 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.



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.

Michael S. Killam, P.Eng.

David J. Gilbert, P.Eng

Report Distribution:

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

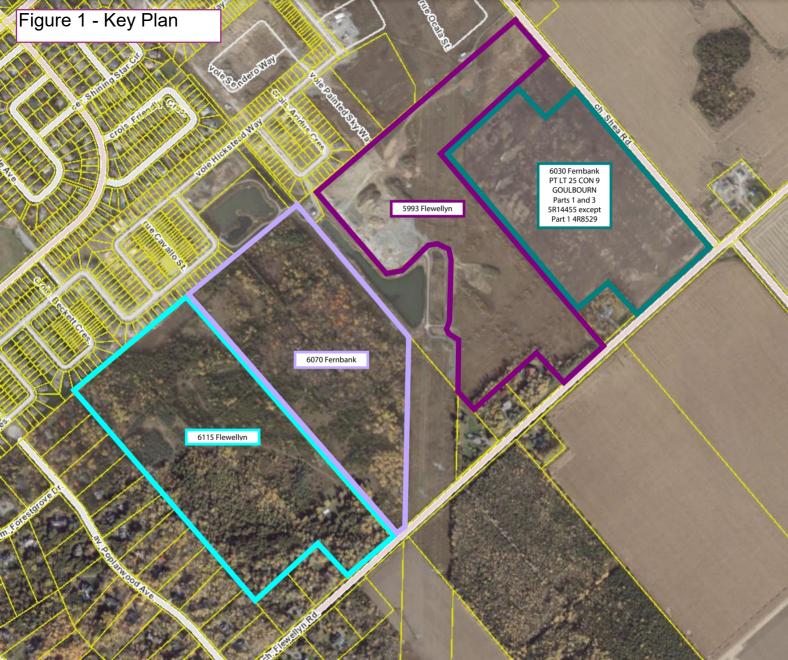


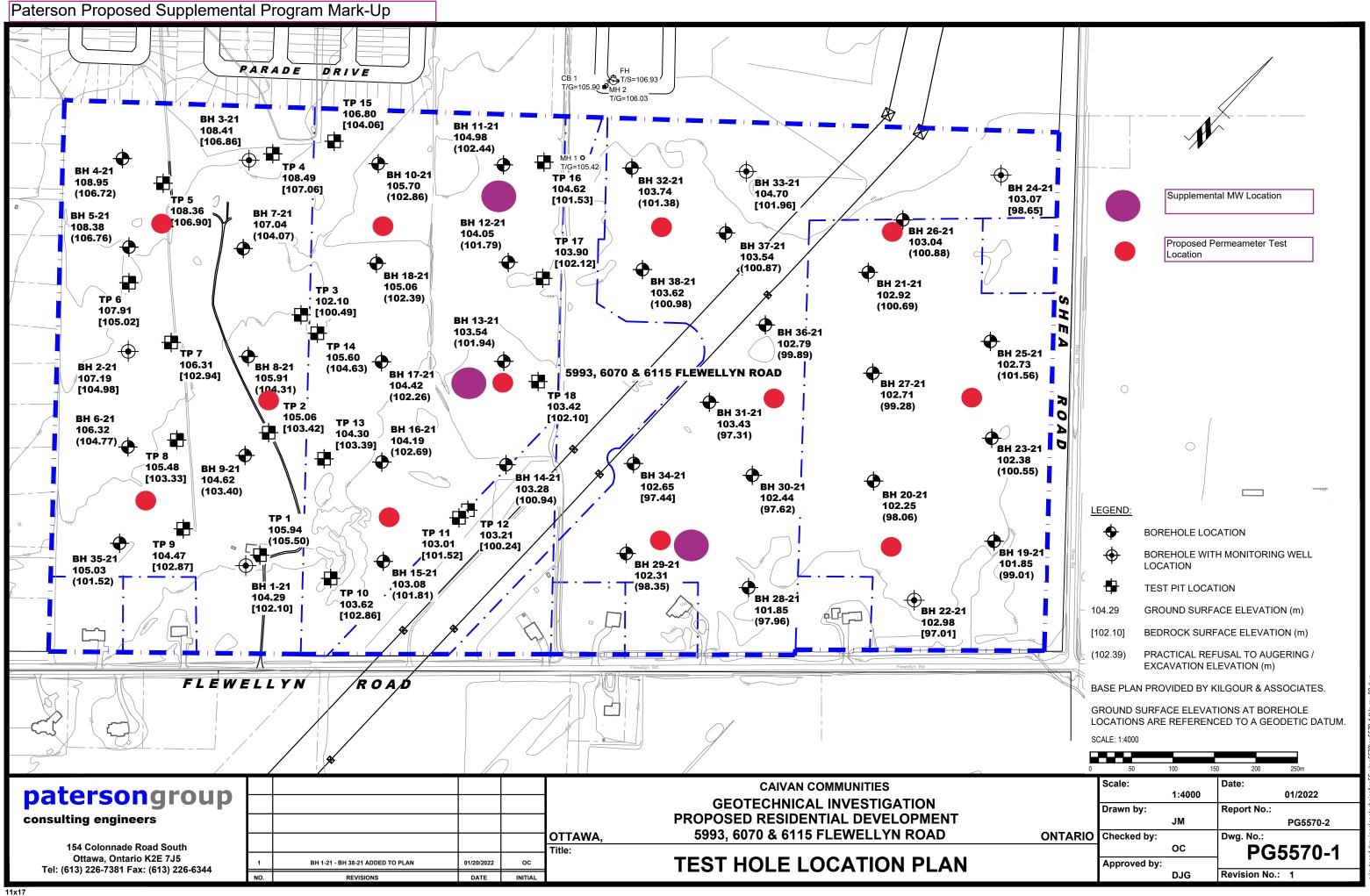
Terms of Reference Geotechnical and Hydrogeological Investigation Proposed Residential Development 5993, 6030 & 6115 Flewellyn Road and 6070 Fernbank Road - Ottawa

APPENDIX 1

FIGURE 1 – KEY PLAN

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







APPENDIX 2

PATERSON - SOIL AND TEST DATA SHEETS

PG5570-1 - TEST HOLE LOCATION PLAN

PATERSON - GRAIN SIZE ANALYSIS RESULTS

PATERSON - SOIL ANALYTICAL RESULTS

SOIL PROFILE AND TEST DATA

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

9 Auriga Drive, Ottawa, Ontario K2E 7T9

DATUM Geodetic								FILE NO. PG5570
REMARKS	ווייר				ATE (Sontomb	x 00 00	HOLE NO. 22 BH 1-22
BORINGS BY CME-55 Low Clearance E			SVI	IPLE		Septembe	er 28, 204	
SOIL DESCRIPTION	A PLOT				۲o	DEPTH (m)	ELEV. (m)	Pen. Resist. Blows/0.3m ● 50 mm Dia. Cone ○ Water Content % 20 40 60 80
	STRATA	TYPE	NUMBER	% RECOVERY	N VALUE of ROD			• Water Content %
GROUND SURFACE				щ	-	0-	-107.31	
Loose to compact, brown SILTY SAND, trace gravel		AU	1					O
GLACIAL TILL: Compact to dense,		ss	2	45	17	1-	-106.31	0
brown silty sand to sandy silt with gravel, cobbles and boulders		ss	3	14	65	0	-105.31	0
2.34		RC	1	100	89	2-	-105.31	
		=				3-	-104.31	
		RC	2	100	100	4-	-103.31	
		=				5-	-102.31	
BEDROCK: Excellent quality, grey limestone interbedded with dolostone		RC	3	100	100	5		
		-				6-	-101.31	
		RC	4	98	98	7-	-100.31	
		RC	5	100	100	8-	-99.31	
End of Borehole9.02		_				9-	-98.31	
(GWL @ 1.33m - Oct. 11, 2022)								
								20 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 Aı	uriga	Drive,	Ottawa,	Ontario	K2E	7	٢S
------	-------	--------	---------	---------	-----	---	----

DATUM Geodetic							iturio		FILE NO.		
REMARKS									HOLE NO).	
BORINGS BY CME-55 Low Clearance [Drill			D	ATE	Septembe	er 28, 20	22	BH 1A	-22	
SOIL DESCRIPTION	PLOT		SAN	IPLE		DEPTH (m)	ELEV. (m)		esist. Blo 0 mm Dia	ows/0.3m a. Cone	g Well tion
	STRATA	ТҮРЕ	NUMBER	% RECOVERY	N VALUE or RQD			• W	ater Cor	ntent %	Monitoring Well Construction
GROUND SURFACE	ω		N	RE	z ^o	0-	-107.31	20	40 6	60 80	
OVERBURDEN							-106.31				
1.62 End of Borehole		_							<u> </u>		
Practical refusal to augering at 1.62m depth											
(GWL @ 1.44m - Oct. 11, 2022)								20 Shea ▲ Undistu	r Streng		00

SOIL PROFILE AND TEST DATA

Monitoring Well Construction

Ţ

20

▲ Undisturbed

40

60

Shear Strength (kPa)

80

 \triangle Remoulded

100

Geotechnical Investigation

R

9 Auriga Drive, Ottawa, Ontario K2E 7T9						93, 6070 a tawa, Or		Flewellyn	Road	1	
DATUM Geodetic					1				FILE	NO. 5570	
REMARKS										5570 E NO.	
BORINGS BY CME-55 Low Clearance	Drill			D	ATE S	Septembe	er 28, 20	22		2-22	
SOIL DESCRIPTION	РІОТ		SAN	IPLE		DEPTH	ELEV.	Pen. Re		Blow Dia. (
SOIL DESCRIPTION			R	RY	۲.	(m)	(m)	• 5			
	STRATA	ТҮРЕ	NUMBER	% RECOVERY	N VALUE or RQD			• •	/ater (Conte	nt %
GROUND SURFACE	S		z	RE	z ^o	0-	-103.58	20	40	60	80
TOPSOIL 0.30 Compact, brown SILTY SAND to SANDY SILT, trace clay and gravel 0.76		AU	1				100.00	Φ			
		RC	1	100	77	1-	-102.58				
		RC	2	100	97	2-	-101.58				
		_				3-	-100.58				
BEDROCK: Good to excellent quality, grey limestone interbedded with dolostone		RC	3	100	100	4-	-99.58				
		RC	4	100	100	5-	-98.58				
		_				6-	-97.58				
		RC	5	100	97	7-	-96.58				
		RC	6	100	100	8-	-95.58				
9.02 End of Borehole		_				9-	-94.58				
(GWL @ 1.52m - Oct. 11, 2022)											

SOIL PROFILE AND TEST DATA

FILE NO.

PG5570

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

9 Auriga Drive, Ottawa, Ontario K2E 7T9

Geodetic

REMARKS

DATUM

REMARKS BORINGS BY CME-55 Low Clearance	Drill				DATE S	Septemb	er 29, 202	HOLE NO. 22 BH 3-22			
SOIL DESCRIPTION	PLOT		SAN	IPLE		DEPTH	ELEV.	Pen. Resist. Blows/0.3m ■ ● 50 mm Dia. Cone ■ ○ Water Content % ■ 20 40 60 80			
	STRATA P	ТҮРЕ	NUMBER	% RECOVERY	VALUE r rod	(m)	(m)				
GROUND SURFACE	LS.	F	NC	REC	N OF		100.05	20 40 60 80 2			
TOPSOIL0.28		₩				0-	-102.25				
			1								
		ss	2	58	19	1-	-101.25				
Compact, brown SILTY SAND to SANDY SILT		$\mathbb{A}_{\mathbb{C}}$	2								
		ss	3	58	17						
2.2 ⁻	1		3	50		2-	100.25				
GLACIAL TILL: Grey silty sand to			4	07							
andy silt with gravel, cobbles and		ss	4	67	3						
boulders, trace clay		≊ SS	5	67	50+	3-	-99.25				
<u>3.4</u>	3										
		RC	1	100	96	1-	-98.25				
						4-	-98.25				
						5-	-97.25				
		RC	2	2 100	98						
			2								
EDROCK: Excellent quality, grey						6-9	-96.25				
mestone interbedded with doloston											
			_		100		-95.25				
		RC	3	100		7-					
		<u> </u>									
						8-	-94.25				
		RC	4	100	100						
9.12	$2^{\frac{1}{1} + \frac{1}{1}}$					9-	-93.25				
GWL @ 0.84m - Oct. 11, 2022)											
								20 40 60 80 100 Shear Strength (kPa) ▲ Undisturbed △ Remoulded			

SOIL PROFILE AND TEST DATA

FILE NO.

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

9 Auriga Drive, Ottawa, Ontario K2E 7T9

DATUM	G

DEMARKS									PG55	570	
REMARKS						.			HOLEN		
BORINGS BY CME-55 Low Clearance	Drill			D	DATE	Septembe	er 29, 20 I	22	BH 3	A-22	
	Б		SAN	IPLE		DEPTH	ELEV.	Pen. I	Resist. B	Blows/0.3m	ell
SOIL DESCRIPTION	PLOT			~		(m)	(m)		50 mm D	ia. Cone	Monitoring Well
	ATA	ы	JER	TER!	VALUE r RQD						- uit
	STRATA	ТҮРЕ	NUMBER	°% RECOVERY	N VA or F			0	Water Co	ontent %	onito
GROUND SURFACE	0		Z	RE	z o	0	100.05	20	40	60 80	≥č
TOPSOIL0.28						- 0-	102.25				
Compact, brown SILTY SAND to						1-	101.25				
SANDY SILT											
		₩ AU	1								
2.20						2-	100.25				- 目
											日日
GLACIAL TILL: Grey silty sand to sandy silt with gravel, cobbles and											
boulders, trace clav						3-	-99.25				」目
End of Borehole	<u>}</u>	182				0	00.20				
Practical refusal to augering at 3.15m											
depth.											
(GWL @ 0.81m - Oct. 11, 2022)											
								20 She	40 ear Stren	60 80 1 gth (kPa)	100
								▲ Undi		\triangle Remoulded	

<u>9</u>.04

SOIL PROFILE AND TEST DATA

Monitoring Well Construction

T

Geotechnical Investigation 5993, 6070 and 6115 Flewellyn Road

9+96.71

40

Shear Strength (kPa)

20

▲ Undisturbed

60

80

 \triangle Remoulded

100

9 Auriga Drive. Ottawa. Ontario K2F 7To

RE

End of Borehole

(GWL @ 3.62m - Oct. 11, 2022)

5 Adriga Drive, Ottawa, Oritario NZE 715					Ot	tawa, On	ntario					
DATUM Geodetic									FILE	NO. 5570)	
REMARKS										E NO.		
BORINGS BY CME-55 Low Clearance I	Drill			D	ATE S	Septembe	er 29, 202	22	BH	4-22		
	РГОТ		SAN	IPLE		DEPTH	ELEV.				vs/0.3m	
SOIL DESCRIPTION			~	Υ	ы	(m)	(m)	• 5	0 mm	Dia.	Cone	
	STRATA	ТҮРЕ	NUMBER	% RECOVERY	VALUE r RQD			0 N	/ater	Conte	ent %	
GROUND SURFACE	S.		IN	REC	N V. of			20	40	60	80	
TOPSOIL 0.28						0-	-105.71					
		S AU	1					О				
		$\overline{\nabla}$										
Compact, brown SILTY SAND to		≬ ss	2	75	22	1-	-104.71	<u> </u>				
SANDY SILT												
		ss	3	75	21			0				
2.21		$\mathbb{V}_{\mathbb{C}}$	U			2-	-103.71					
GLACIAL TILL: Compact to dense,		$\overline{\mathbf{V}}$										
brown silty sand with gravel, cobbles and boulders, trace clay		ss	4	67	17			0				
-						3-	-102.71					
- grey by 3.0m depth		∦ss∣	5	57	45			O				• • •
<u>3.61</u>		Δ										
		RC	1	100	84	4-	-101.71					
		ΠŪ	1	100	04					·····		
		-										
						5-	-100.71					
		RC	2	100	98	Ŭ	100.71					
			-									
						0	00.71					•••
BEDROCK: Good to excellent		_				6-	-99.71					
quality, grey limestone interbedded with dolostone												
		RC	3	100	100							
						7-	-98.71					
												••••
						8-	-97.71					
		RC	4	100	100							
	<u></u>											

SOIL PROFILE AND TEST DATA

FILE NO.

PG5570

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

9 Auriga Drive, Ottawa, Ontario K2E 7T9

Geodetic

REMARKS

DATUM

REMARKS								HOLE NO.		
BORINGS BY CME-55 Low Clearance	Drill	1		D	ATE	Septembe	er 30, 20			
SOIL DESCRIPTION	PLOT		SAMF		1	DEPTH	ELEV.	Pen. Resist. Blows/0.3m • 50 mm Dia. Cone		
	STRATA I	ТҮРЕ	NUMBER	°. ∧ Secovery	VALUE r rod	(m)	(m)	 Water Content % 	Monitoring Well	
GROUND SURFACE	S II	H	N N	REC	N OF			20 40 60 80	No	
TOPSOIL 0.28	8					0-	105.70			
		UA 👸	1					0		
Compact, brown SILTY SAND to		Π								
SANDY SILT		ss	2	79	21	1-	104.70	•		
									V	
1.96		∬ ss	3	71	29		-103.70	••••••		
GLACIAL TILL: Compact to dense, brown silty sand to sandy silt, trace 2.20		∐ ≇≍SS	4	100	50+	2-	103.70			
		RC	4	100	100			φ.		
						2	102.70			
						5	102.70	. O		
		RC	2	100	100	4-101.70 -				
		RC	2	100	100		101 70			
							101.70			
		-								
						5+	100.70			
BEDROCK: Excellent quality, grey limestone interbedded with dolostone		RC	3	100 100						
					6-99.70					
						-99.70				
							00110			
				100	100					
		RC	4	100	100	7-	-98.70			
		<u>}_</u>								
						8-	97.70		1目	
		RC	5	100	100					
8.99										
(GWL @ 1.62m - Oct. 11, 2022)										
								20 40 60 80 ⁻ Shear Strength (kPa)	100	
								▲ Undisturbed △ Remoulded		

patersongroup Consulting SOIL PROFILE A Geotechnical Investigation

SOIL PROFILE AND TEST DATA

20

FILE NO. PG5570 HOLE NO. HA 1-22

Pen. Resist. Blows/0.3m

• 50 mm Dia. Cone

• Water Content %

60

80

40

Monitoring Well Construction

V

and 6115 Flewellyn Road tario

9 Auriga Drive, Ottawa, Ontario K2	59 O	5993, 6070 and 6115 F Ottawa, Ontario							
DATUM Geodetic									
REMARKS									
BORINGS BY Hand Auger					D	ATE	Septemb	er 28, 20	22
SOIL DESCRIPTION		РІОТ	SAMPLE				DEPTH	ELEV.	
SUL DESCRIPTION		STRATA P.	ТҮРЕ	NUMBER	% RECOVERY	N VALUE or RQD	(m)	(m)	
GROUND SURFACE		07		4	R	z º		106.78	
Brown SILTY SAND, trace gravel	<u>0.30</u> 0.69		_						
End of Hand Auger Hole									
(GWL @ 0.31m - Oct. 11, 2022)									

20 40 60 80 100 Shear Strength (kPa)

SOIL PROFILE AND TEST DATA

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

9 Auriga Drive, Ottawa, Ontario K2E 7T9

DATUM	Ge

DATUM Geodetic									FILE	NO. 5570		
REMARKS									HOL	e no.		
BORINGS BY Track-Mount Power Auge	er 			D	ATE	Decembe	er 14, 202	21	BH	1-21		
SOIL DESCRIPTION	PLOT	ы SAMPLE			DEPTH ELEV. (m) (m)		Pen. Resist. Blows/0.3m • 50 mm Dia. Cone				g Well tion	
	STRATA	ТҮРЕ	NUMBER	% RECOVERY	N VALUE or ROD			• v	Monitoring Well Construction			
GROUND SURFACE	01		4	RE	z ^o	0-	-104.29	20	40	60	80	Ξŏ
TOPSOIL0.43							10 1120					
Very loose, brown SILTY SAND		B AU	1									
- some clay by 0.6m depth 1.52		ss	2	8	1	1.	-103.29					
GLACIAL TILL: Compact, brown silty sand with gravel, cobbles and		ss	3	25	23							
boulders, trace clay 2.19		a ss	4	100	50+	2	-102.29					
		RC	1	100	57							
		-				3.	101.29					
BEDROCK: Fair to excellent quality, grey limestone interbedded with							101.25					
dolóstone		RC	2	100	68							
						4	100.29					
- 20mm thick mud seam at 3.4m depth		-										
- 12mm thick mud at 3.7m depth						_						
		RC	3	100	98	5	-99.29					
5.77												
End of Borehole		-										
(GWL @ 1.22m - Jan. 11, 2022)												
		20 40 60 80 100 Shear Strength (kPa) ▲ Undisturbed △ Remoulded								00		

SOIL PROFILE AND TEST DATA

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

20

▲ Undisturbed

40

Shear Strength (kPa)

60

80

△ Remoulded

100

9 Auriga Drive, Ottawa, Ontario K2E 7T9

REMARKS	

DATUM Geodetic					1				FILE NO.	0	
REMARKS									HOLE NO.		
BORINGS BY Track-Mount Power Aug	er			D	ATE	Decembe	er 14, 202	21	BH 2-2	1	
SOIL DESCRIPTION	РГОТ		SAMPLE			DEPTH (m)	ELEV. (m)		ws/0.3m . Cone	y Well on	
	STRATA	ТҮРЕ	NUMBER	° ≈ © © ©	VALUE r rod	(,	(11)	• v	Vater Cont	tent %	Monitoring Well Construction
GROUND SURFACE	L2	F	NC	REC	N OL		10710	20	40 60	0 80	C G
Mulch	_	-				0-	-107.19				
TOPSOIL 0.51 Compact, brown SILTY SAND 0.91		S AU	1								
		ss	2	75	12	1-	-106.19				<u>IIIII</u>
GLACIAL TILL: Compact to dense, brown silty sand with gravel, cobbles and boulders 2.21		ss ≤ss	3	75	50 50+	2-	-105.19				
		RC _	4 1	0 100	80						
BEDROCK: Good to excellent quality, grey limestone		RC	2	100	100	3-	-104.19				
- 12mm thick mud seam at 4.1m depth						4-	-103.19				
		RC	3	100	95	5-	-102.19				
5.61 End of Borehole											
(GWL @ 0.82m - Jan. 11, 2022)											

SOIL PROFILE AND TEST DATA

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

Undisturbed

△ Remoulded

9 Auriga Drive, Ottawa, Ontario K2E 7T9

DATUM Geodetic									FILE NO.		
REMARKS									HOLE NO).	
BORINGS BY Track-Mount Power Auge	er			D	ATE	Decembe	r 15, 202	21	BH 3-2	21	
SOIL DESCRIPTION	PLOT.			IPLE 거	м	DEPTH (m)	ELEV. (m)		esist. Bl) mm Dia	ows/0.3m a. Cone	Monitoring Well Construction
	STRATA	ТҮРЕ	NUMBER	% RECOVERY	N VALUE or RQD			• N	ater Cor	ntent %	lonitorin onstruc
		_		8	Z	0-	-108.41	20	40 6	50 80	ΣU
Mulch 0.08 TOPSOIL 0.43 Loose, brown SILTY SAND 0.63		S AU	1								
Loose to compact, brown SILTY SAND to SANDY SILT		ss	2	50	10	1-	-107.41				्रमतितर्गतित्तितितितितितितितिति ⇒ जनसम्पत्तितितितितितितिति
1.55		= SS	3	0	50+						
		RC	1	100	100	2-	-106.41				
		_				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-	-103.41				
5.72		_									
(GWL @ 0.89m - Jan. 11, 2022)											
								20 Shea	40 e r Streng	50 80 10 th (kPa)	oo

SOIL PROFILE AND TEST DATA

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

FILE NO.

PG5570

9 Auriga Drive, Ottawa, Ontario K2E 7T9

Geodetic

REMARKS

DATUM

BORINGS BY Track-Mount Power Aug	er			D		Decembe	er 15 202	21			
SOIL DESCRIPTION	PLOT		SAN	- IPLE		DEPTH	ELEV.	Pen. R	esist.	Blows/0.3 Dia. Cone	3m stion
	STRATA	ТҮРЕ	NUMBER	% RECOVERY	N VALUE or RQD	(m)	(m)	• v	Vater C	Content %	Piezometer 2
GROUND SURFACE			4	E E	z °		100.05	20	40	60 8	0
Mulch 0.10 TOPSOIL 0.30 Compact, brown SILTY SAND, 0.60		AU	1				-108.95				
	+	∛ss	2	50	12	1-	107.95				
GLACIAL TILL: Compact, brown silty sand with gravel, cobbles and boulders	3 (((((((((((((ss	3	42	21	2-	-106.95				
End of Borehole											
Practical refusal to augering at 2.23m depth											
(GWL @ 1.23m - Jan. 11, 2022)								20 Shea ▲ Undist		60 8 60 8 ngth (kPa △ Remou	a)

SOIL PROFILE AND TEST DATA

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

> FILE NO. PG5570

9 Auriga Drive, Ottawa, Ontario K2E 7T9

DATOW	<u>u</u>

Geodetic

REMARKS

BORINGS BY Track-Mount Power Auge	er	•		C	DATE	Decembe	r 15, 202	21 BH 5-21
SOIL DESCRIPTION	PLOT		SAN	IPLE		DEPTH (m)	ELEV. (m)	Pen. Resist. Blows/0.3m ● 50 mm Dia. Cone
	STRATA	ТҮРЕ	NUMBER	* RECOVERY	N VALUE or RQD	(,	(11)	Pen. Resist. Blows/0.3m ● 50 mm Dia. Cone ○ Water Content % 20 40 60 80
70000						0-	108.38	
GROUND SURFACE TOPSOIL 0.36 Loose, brown SILTY SAND 1.22 GLACIAL TILL: Dense, grey silty sand with gravel, cobbles and boulders 1.62 End of Borehole Practical refusal to augering at 1.62m depth (BH dry - January 11, 2022) 0.36		AU SS SS	1 2 3	0	4 50+		-108.38	
								20 40 60 80 100 Shear Strength (kPa) ▲ Undisturbed △ Remoulded

SOIL PROFILE AND TEST DATA

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

DATUMGeodeticREMARKSImage: Contract of the second secon									FILE N PG5 HOLE	570		
BORINGS BY Track-Mount Power Auge	er			D	ATE	Decembe	er 15, 202	21	BH		— 7	Т
SOIL DESCRIPTION	PLOT			IPLE 거		DEPTH (m)	ELEV. (m)			Blows/0.3m Dia. Cone		
	STRATA	ТҮРЕ	NUMBER	∾ RECOVERY	N VALUE or RQD			• v	/ater C	Content %		
GROUND SURFACE	03		2	RE	z ^o	0-	106.32	20	40	60 80		ļ
OPSOIL 0.41 Loose, brown SILTY SAND, trace 0.60 clay 0.41		<u>§</u> AU ₩	1		47		-105.32					
SLACIAL TILL: Compact to dense, brown silty sand with gravel, cobbles and boulders1.55 End of Borehole		ss	2	83	17		105.52					
Practical refusal to augering at 1.55m epth												
3H dry - January 11, 2022)												
								20 Shea ▲ Undist		60 80 ngth (kPa) △ Remoulded		10

SOIL PROFILE AND TEST DATA

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

REMARKS BORINGS BY Track-Mount Power Auge	er			D	ATE [Decembe	r 15, 202	21	PG5570 HOLE NO. BH 7-21	
SOIL DESCRIPTION	PLOT		SAN	IPLE		DEPTH	ELEV.		esist. Blows/0) mm Dia. Cor	
	STRATA I	ТҮРЕ	NUMBER	°8 ©™ERY	N VALUE of RQD	(m)	(m)		ater Content	
GROUND SURFACE	ร	F	NC	REC	z ⁰		407.04	20	40 60	80
Mulch 0.10 IOPSOIL 0.41 Loose, brown SILTY SAND 0.60		80 ╱- └	1			0-	-107.04			
GLACIAL TILL: Compact to dense, brown silty sand with gravel, cobbles		ss	2	100	19	1-	-106.04			
and boulders		ss	3	67	44	2-	-105.04			
2.97 End of Borehole		ss	4		52					
Practical refusal to augering at 2.97m lepth										
GWL @ 1.09m - Jan. 11, 2022)										

SOIL PROFILE AND TEST DATA

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

FILE NO.

DATUM	Geodetic
REMARKS	
	Trook M

REMARKS									PG557		
BORINGS BY Track-Mount Power Auge	٦r			Г		Decembe	or 15 202	01	HOLE NO		
SOIL DESCRIPTION	PLOT		SAN	/IPLE		DEPTH	ELEV.	Pen. R	1	ows/0.3m	er ion
GROUND SURFACE	STRATA P	ТҮРЕ	NUMBER	°° © © © © © ©	N VALUE or RQD	(m)	(m)	• V	Vater Cor	ntent %	Piezometer Construction
		8-11	4	<u></u>		0-	105.91	20	40 6	i0 80	
Mulch 0.05 TOPSOIL 0.38 Loose, brown SILTY SAND 0.60		Ĩ J_ ⊬	1								
GLACIAL TILL: Compact to dense, brown silty sand with gravel, cobbles and boulders 1.60		ss	2	67	20	1-	-104.91				
End of Borehole		≡.55	3	0	50+						
Practical refusal to augering at 1.60m depth											
(BH dry - January 11, 2022)											
								20 Shea ▲ Undist	ar Streng		00

SOIL PROFILE AND TEST DATA

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

DATUM Geodetic REMARKS BORINGS BY Track-Mount Power Auge	er			C		Decembe		21	FILE NO. PG5570 HOLE NO. BH 9-21		
SOIL DESCRIPTION	PLOT		SAN	/IPLE	1	DEPTH	ELEV.	Pen. Re	esist. Blow) mm Dia. (ter tion
	STRATA F	ТҮРЕ	NUMBER	°8 ©€EEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEE	VALUE r ROD	(m)	(m)		ater Conte		Piezometer Construction
GROUND SURFACE	δ.		Ĭ	REC	N OL (101.00	20	40 60	80	
TOPSOIL0.36		₩	_			- 0-	-104.62				
Loose, brown SILTY SAND, trace 0.69		Å AU	1								
GLACIAL TILL: Compact to dense, brown silty sand with gravel, cobbles.22		ss	2		50+	1-	103.62				
and boulders										·····	
End of Borehole											
Practical refusal to augering at 1.22m depth											
(Piezometer damaged - Jan. 11, 2022)											
								20	40 60	80 10	 00
								Shea	r Strength $rbed \triangle R$	(kPa)	

SOIL PROFILE AND TEST DATA

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

SOIL DESCRIPTION SAMPLE DEPTH (m) ELEV. (m) Pen. Resist. Blows/0.3m • 50 mm Dia. Cone ROUND SURFACE 0.36	MARKS DRINGS BY Track-Mount Power Auge	er			D	ATE	Decembe	r 15, 202	:1	PG557 HOLE NO BH10-2).	
Image: Second Surface Image: Second Surface <thimage: second="" surface<="" th=""> Image: Second Surf</thimage:>	SOIL DESCRIPTION	LOT		SAN	IPLE							ter
AROUND SURFACE Au Au <th></th> <th></th> <th>LYPE</th> <th>JMBER</th> <th>% COVERY</th> <th>VALUE r RQD</th> <th>(m)</th> <th>(m)</th> <th></th> <th></th> <th></th> <th>Piezometer</th>			LYPE	JMBER	% COVERY	VALUE r RQD	(m)	(m)				Piezometer
OPSOIL 0.36 ompact, brown SILTY SAND SS 2 67 23 1-104.70 SS 3 67 16 2-103.70 2.74 SS 4 64 25 LACIAL TILL: Compact to dense, 2.84 1 1 1 rey silty sand with gravel, cobbles 1 1 1 nd of Borehole 1 1 1 ractical refusal to augering at 2.84m 1 1 1	ROUND SURFACE	ŝ		IN	REC	z ö	0-	-105 70	20	40 6	0 80	
ompact, brown SILTY SAND 2.74 2.74 SS 2 67 23 1-104.70 2-103.70 LACIAL TILL: Compact to dense, 2.84 rey silty sand with gravel, cobbles nd boulders nd of Borehole ractical refusal to augering at 2.84m epth	DPSOIL0.36		- ସ				0	105.70				
ompact, brown SILTY SAND 2.74 SS 3 67 16 2-103.70 A CIAL TILL: Compact to dense, 2.84 ey silty sand with gravel, cobbles and boulders and of Borehole ractical refusal to augering at 2.84m epth			8 AU	1					· · · · · · · · · · · · · · · · · · ·			
2.74 SS 3 67 16 2.74 SS 4 64 25 LACIAL TILL: Compact to dense, 2.84 rey silty sand with gravel, cobbles nd boulders nd of Borehole ractical refusal to augering at 2.84m epth			ss	2	67	23	1-	-104.70				₩
2.74 SS 4 64 25 LACIAL TILL: Compact to dense, 2.84 rey silty sand with gravel, cobbles nd boulders nd of Borehole ractical refusal to augering at 2.84m epth	2.74											
ACIAL TILL: Compact to dense, 2.84			ss	3	67	16	2-	-103.70				ЩЩ.
ACIAL TILL: Compact to dense, 2.84	0.74		0	1	61	25						
d of Borehole actical refusal to augering at 2.84m pth	ACIAL TILL: Compact to dense, 2.84		A-	т		20						
actical refusal to augering at 2.84m pth	ey silty sand with gravel, cobbles		i J									
pth	d of Borehole											
	actical refusal to augering at 2.84m pth											
	-											
	_ ,											

SOIL PROFILE AND TEST DATA

Piezometer Construction

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

9 Auriga Drive, Ottawa, Ontario K2E 7T9)					op. Resid Itawa, Or		evelopmer	it - 611	15 Fle	wellyn
DATUM Geodetic						ŕ				NO. 5 570	
REMARKS									HOLE		
BORINGS BY Track-Mount Power Auge	er	1		D	ATE	Decembe	er 16, 202	1		1-21	
SOIL DESCRIPTION	PLOT		SAN	IPLE		DEPTH	ELEV.	Pen. R	esist. 0 mm		
SOIL DESCRIPTION			ж	RY	ЩО	(m)	(m)	• 5	,	Dia. C	one
	STRATA	ТҮРЕ	NUMBER	% RECOVERY	N VALUE or RQD			0 W	/ater C	Conte	nt %
GROUND SURFACE	0		Z	RE	z ^o	0.	104.98	20	40	60	80
TOPSOIL0.33						0	104.90				
Compact, brown SILTY SAND 0.66		₩ AU	1						• • • • • • • •		······
Compact, brown SILTY SAND to SANDY SILT 1.12		ss	2	67	24	1-	103.98				<u></u>
		1-33	2	07	24		100.00				
GLACIAL TILL: Compact to dense,		N									
brown silty sand with gravel, cobbles and boulders		∬ss	3	67	32	2-	102.98				
		k ss	4	80	50+						
End of Borehole	<u> ^.^.^</u>	•									
Practical refusal to augering at 2.54m depth											
(GWL @ 1.32m - 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 Ottawa, Ontario

▲ Undisturbed

△ Remoulded

DATUM Geodetic									FILE NO. PG5570
REMARKS BORINGS BY Track-Mount Power Auge	ər			Г	DATE	Decembe	er 16, 202	21	HOLE NO. BH12-21
SOIL DESCRIPTION	PLOT		SAN	IPLE	1	DEPTH	ELEV.	Pen. R	
	STRATA F	ТҮРЕ	NUMBER	* RECOVERY	VALUE r RQD	(m)	(m)		Vater Content %
GROUND SURFACE	LS	н	NN	REC	N V.		10105	20	40 60 80 E O
TOPSOIL0.36						- 0-	-104.05		
Compact, brown SILTY SAND 0.69	· · ·	₩ AU	1						
Compact, brown SILTY SAND to SANDY SILT		ss	2	67	13	1-	103.05		
GLACIAL TILL: Dense, brown silty sand with gravel, cobbles and boulders		ss	3	17	36	2-	-102.05		
2.26	<u>`^^^^</u>	- -							
Practical refusal to augering at 2.26m depth									
(GWL @ 1.58m - Jan. 11, 2022)									
								20 Shea	40 60 80 100 ar Strength (kPa)

SOIL PROFILE AND TEST DATA

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

• • •						lawa, On	itario				
DATUM Geodetic									FILE NO		
REMARKS									HOLE N	0.	
BORINGS BY Track-Mount Power Auge	er 🗌	1		D	ATE	Decembe	r 16, 202	21	BH13	-21	1
SOIL DESCRIPTION	PLOT		SAN			DEPTH (m)	ELEV. (m)			lows/0.3m a. Cone	eter ction
	STRATA	ТҮРЕ	NUMBER	° ≈ © © ©	N VALUE or RQD	(,	(,	0 W	ater Co	ntent %	Piezometer Construction
GROUND SURFACE	ŝ		Ĩ	REC	z ö		100 54	20	40	60 80	L 0
TOPSOIL0.36							-103.54				
Loose, brown SILTY SAND to SANDY SILT		SS AU	1 2	25	6	1-	-102.54				
1.60		⊡ ≡.SS	3	0	50+						
End of Borehole											
Practical refusal to augering at 1.60m depth											
(GWL @ 1.44m - Jan. 11, 2022)											
								20	40		⊣ 00
								Shea ▲ Undistu		jth (kPa) ∆ Remoulded	

SOIL PROFILE AND TEST DATA

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

FILE NO.

 	 -	

DATUM	Geodetic

REMARKS									PG55	570	
				_			40.000		HOLEN		
BORINGS BY Track-Mount Power Auge	er I			D	DATE	Decembe	er 16, 202	21	BH14	-21	1
	РГОТ		SAN	IPLE		DEPTH	ELEV.			lows/0.3m	l ro
SOIL DESCRIPTION			~	ХХ	Що	(m)	(m)	•	50 mm D	la. Cone	nete
	STRATA	ТҮРЕ	NUMBER	% RECOVERY	N VALUE or RQD			0	Water Co	ontent %	Piezometer Construction
GROUND SURFACE	03		Z	RE	z o	0	103.28	20	40	60 80	
TOPSOIL						0-	-103.28				
Loose, brown SILTY SAND 0.69		DA	1						•••••••		
Loose, brown SILTY SAND to SANDY SILT1.45		ss	2	67	6	1-	-102.28				
GLACIAL TILL: Loose to dense, brown silty sand with clay, gravel, cobbles and boulders 2 34		ss	3	25	7	2-	-101.28			· · · · · · · · · · · · · · · · · · ·	
End of Borehole	<u>^^^^</u>	=-SS	4	0	50+						
Practical refusal to augering at 2.34m depth											
(GWL @ 1.37m - Jan. 11, 2022)								20 She ▲ Undis		60 80 1 gth (kPa) △ Remoulded	00

SOIL PROFILE AND TEST DATA

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

9	Auriga	Drive,	Ottawa,	Ontario	K2E	7T9
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DATUM Geodetic					-				FILE NO.)	
REMARKS BORINGS BY Track-Mount Power Auge	٩r			D		Decembe	er 16 202	21	HOLE NO. BH15-2		
	PLOT		SAN	IPLE		DEPTH	ELEV.	Pen. Re	esist. Blov	ws/0.3m	er on
SOIL DESCRIPTION	STRATA PI	ТҮРЕ	NUMBER	% RECOVERY	VALUE r RQD	(m)	(m)) mm Dia.		Piezometer Construction
GROUND SURFACE	STR	Τ	MUN	RECO	N VJ OL		-103.08	0 W 20	40 60		
TOPSOIL 0.30 Compact, brown SILTY SAND to		au San	1				103.00				
SANDY SILT		i ss	2	60	10		100.00		• • • • • • • • • • • • • • • • • • • •		
GLACIAL TILL: Compact, brown silty sand with gravel, cobbles and boulders		1/		63	19		-102.08				Y
End of Borehole		ľ									
Practical refusal to augering at 1.27m depth											
(GWL @ 0.92m - Jan. 11, 2022)											
								20	40 60		00
								Shea	r Strength urbed \triangle I	ו (kPa) Remoulded	

SOIL PROFILE AND TEST DATA

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

Construction

DATUM Geodetic REMARKS BORINGS BY Track-Mount Power Auge	er			D	ATE	Decembe	er 16, 202	21		PG HOL	E NO. 1557 LE NO 116-2			
SOIL DESCRIPTION	PLOT		SAN	IPLE		DEPTH	ELEV.	Pen. F				ows/0. . Con		ŗ
	STRATA P	ТҮРЕ	NUMBER	°. © © ©	VALUE r RQD	(m)	(m)					tent %		Diazomatar
GROUND SURFACE	LS I	H	NN	REC	N OF			20		40	6	0 8	30	ä
TOPSOIL 0.25						0-	-104.19							
Compact, brown SILTY SAND, trace gravel 0.69		AU	1						· · · · ·		•••••	••••••••••		
GLACIAL TILL: Compact, brown silty sand with gravel, cobbles and		ss	2		22	1-	-103.19		<u></u>					
boulders <u>1.50</u> End of Borehole	<u>`^^^^</u>	<u>-</u> -							· · · · · · · · · · · · · · · · · · ·					
Practical refusal to augering at 1.50m depth														
(GWL @ 1.32m - Jan. 11, 2022)														
									• • • • •					
									• • • •					
									•••••					
									• • • • •					
									•••••					
									•••••					
								20 She ▲ Undis	a ı	40 r Str	6 engt	0 8 h (kP a Remou	a)	10

SOIL PROFILE AND TEST DATA

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

					Ot	tawa, Or	ntario				
DATUM Geodetic									FILE NO		
REMARKS									HOLE N		
BORINGS BY Track-Mount Power Auge	er			D	ATE	Decembe	er 16, 202	21	BH17		
SOIL DESCRIPTION	PLOT		SAN	/IPLE		DEPTH (m)	ELEV. (m)			lows/0.3m ia. Cone	Piezometer Construction
	STRATA	ТҮРЕ	NUMBER	% RECOVERY	VALUE Pr ROD		(,	• N	lator Co	ntent %	szome nstru
GROUND SURFACE	STI	L.	NUN	RECO	N O R			20		60 80	i S
TOPSOIL0.28		L.				0-	-104.42				
Loose brown SILTY SAND to		∑ AU	1								
Loose, brown SILTY SAND to SANDY SILT		ss	2	75	5	1-	-103.42				
1.98		ss	3	91	11		100.10				
GLACIAL TILL: Compact, brown 2.16 silty sand with gravel, cobbles and boulders		₩ <u>-</u> - . 				2-	-102.42				
End of Borehole	·	Ļ									
Practical refusal to augering at 2.16m depth											
(GWL @ 1.25m - Jan. 11, 2022)											
								20 Shea ▲ Undistr	r Streng	60 80 1 gth (kPa) △ Remoulded	00

SOIL PROFILE AND TEST DATA

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

-						lawa, Oi	Itano				
DATUM Geodetic									FILE NO		
REMARKS									HOLE N	0.	
BORINGS BY Track-Mount Power Auge	er 			D	ATE	Decembe	er 16, 202	21	BH18	-21	
SOIL DESCRIPTION	PLOT		SAN			DEPTH (m)	ELEV. (m)		esist. Bl 0 mm Di	ows/0.3m a. Cone	eter
	STRATA	ТҮРЕ	NUMBER	* RECOVERY	N VALUE or RQD		(,	• v	later Co	ntent %	Piezometer
GROUND SURFACE	Ω.		Ĩ	REC	z ö		105.00	20	40	60 80	
TOPSOIL0.30		₩-				- 0-	105.06				
		AU	1								
Compact, brown SILTY SAND to SANDY SILT		ss	2	75	10	1-	-104.06				
		ss	3	100	19	2-	-103.06				
- grey by 2.0m depth		:µ :X ss	4		50+		100.00				
End of Borehole	<u>, , , , , ,</u>	<u>·</u> ¥ <u>></u> -									
Practical refusal to augering at 2.67m depth											
(GWL @ 1.40m - Jan. 11, 2022)											
								20	40	60 80 1	100
								Shea	r Streng	th (kPa)	
				1				▲ Undist	urbed Z	Remoulded	

SOIL PROFILE AND TEST DATA

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

-						lawa, On	Italio				
DATUM Geodetic									FILE NO		
REMARKS									HOLE NO		
BORINGS BY Track-Mount Power Auge	er			D	ATE	Decembe	r 16, 202	21	BH19		1
SOIL DESCRIPTION	PLOT		SAN	IPLE		DEPTH	ELEV.		esist. Bl) mm Dia	ows/0.3m a. Cone	Piezometer Construction
		田					ome				
	STRATA	ТҮРЕ	NUMBER	° ≈ © © ©	N VALUE or RQD			• N	later Co	ntent %	Dons
GROUND SURFACE			z	RE	z ^o	0	-101.85	20	40	50 80	
_ TOPSOIL 0.20		<u>,</u>				0	101.05				
		AU	1								
Compact, brown SILTY SAND to SANDY SILT		ss	2	50	12	1-	-100.85				
		μ									
<u>1.7</u> 3		₹ss	3	75	8						
Loose, brown SILTY SAND, some		Δ		/3		2-	-99.85				
		ss	4	100	12						
GLACIAL TILL: Compact, grey silty2.84		<u> </u>			12						
boulders	L	 									
End of Borehole											
Practical refusal to augering at 2.84m depth											
(GWL @ 1.04m - Jan. 11, 2022)											
											4
								20 Shea	40 0 Ir Streng		00
								Jilea ▲ Undist		Remoulded	

SOIL PROFILE AND TEST DATA

Geotechnical Investigation Prop. Residential Development - 6115 Flewellyn Road

Undisturbed

△ Remoulded

Piezometer Construction

						itawa, Or	ntario					
DATUM Geodetic									FILE NO. PG5570			
REMARKS									HOLE NO			
BORINGS BY Track-Mount Power Auge	er			D	ATE	Decembe	er 17, 202	21	BH20-			
SOIL DESCRIPTION	PLOT		SAN	IPLE		DEPTH	ELEV.		esist. Blo 0 mm Dia	ows/0.3m a. Cone	.	
		E	ER	ERY	VALUE Pr RQD	(m)	(m)					
	STRATA	ТҮРЕ	NUMBER	% RECOVERY	N VA.			0 V	Vater Con	ntent %	ċ	
GROUND SURFACE TOPSOIL 0.23				Ř	2	- 0-	102.25	20	40 6	60 80	×	
0.23		× XAU	1								×	
		∞⊂									×	
Compact to loose, brown SILTY SAND to SANDY SILT		ss	2	58	11	1-	-101.25					
SAND to SANDT SILT		∇										
		ss	3	42	7	2-	100.25				×	
2.44		₽	-									
Interlayered grey SANDY SILT and grey SILTY CLAY	X	ss	4	75	3							
3.20		∦ss	-	07	00	3-	-99.25					
GLACIAL TILL: Compact, grey silty sand with gravel, cobbles and		1 22	5	67	23							
boulders 4.19		ss	6		50+	4-	-98.25					
End of Borehole		<u> </u>										
Practical refusal to augering at 4.19m												
depth												
(GWL @ 1.71m - Jan. 11, 2022)												
								20 Char	40 6 ar Strengt	60 80 10)0	
	1			1	1	1	1	Subscription	II SURID	ui (Kra)		

SOIL PROFILE AND TEST DATA

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

FILE NO.

PG5570

9	Auriga	Drive,	Ottawa,	Ontario	K2E	7T9
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Geodetic

REMARKS

DATUM

BORINGS BY Track-Mount Power Aug	jer			D	ATE	Decembe	er 17, 202	21	HOLE I		
SOIL DESCRIPTION	РГОТ		SAN	IPLE	1	DEPTH	ELEV.	Pen. R		Blows/0.3m Dia. Cone	ter tion
	STRATA I	ТҮРЕ	NUMBER	° ≈ © © © ©	VALUE r RQD	(m)	(m)			ontent %	Piezometer Construction
GROUND SURFACE	ν. Γ		IN	REC	N OF	0	102.02	20	40	60 80	
0.2	5	<u>_</u> -				0-	102.92				
Loose, brown SILTY SAND to SANDY SILT	7	AU N	1				101.00				
	/ <u> </u> ^^^^^	∯-ss	2	42	36]]-	101.92				
GLACIAL TILL: Dense, brown silty sand with gravel, cobbles and boulders 2.2	3	ss	3	50	71	2-	-100.92				
End of Borehole											
Practical refusal to augering at 2.23m depth											
(Piezometer damaged - Jan. 11, 2022)								20 Shea ▲ Undist	40 ar Stren urbed	60 80 19 th (kPa) △ Remoulded	100 d

SOIL PROFILE AND TEST DATA

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

DATUM Geodetic									FILE	NO. 5570	
REMARKS									HOLE	E NO.	
BORINGS BY Track-Mount Power Auge	er			D	ATE	Decembe	r 20, 202	21	BH	22-21	
SOIL DESCRIPTION	PLOT		SAN	IPLE		DEPTH	ELEV. (m)			Blows/0.3m Dia. Cone	eter ction
	STRATA	ТҮРЕ	NUMBER	% RECOVERY	N VALUE or RQD	(m)	(11)	0	Nater (Content %	Piezometer Construction
GROUND SURFACE	L S	H	ΝŊ	REC	N N			20	40	60 80	ΞŎ
TOPSOIL 0.20		<u>_</u> -				0-	-102.98				88
Loose, brown SILTY SAND, trace gravel0.69		AU	1						· · · · · · · · · · · · · · · · · · ·		
		ss	2	100	22	1-	-101.98				
GLACIAL TILL: Compact to dense, brown silty sand with gravel, cobbles and boulders		ss	3	92	29	2-	-100.98				
		ss	4	83	46		00.08				
<u>3.48</u> End of Borehole		ss	5	50	50+	3-	-99.98		· · · · · · · · · · · · · · · · · · ·		
Practical refusal to augering at 3.48m depth.											
								20 She ▲ Undis	40 ar Stre turbed	60 80 10 ength (kPa) △ Remoulded	00

SOIL PROFILE AND TEST DATA

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

> FILE NO. PG5570

9 Auriga Drive, Ottawa, Ontario K2E 7T9					
DATUM Geodetic					
REMARKS					
BORINGS BY Track-Mount Power Auge	er	1		D	ATE
SOIL DESCRIPTION	PLOT		SAN	IPLE	
	STRATA P	ТҮРЕ	NUMBER	°8 ©™ERY	N VALUE
GROUND SURFACE				<u></u>	-
TOPSOIL 0.20 Loose, brown SILTY SAND, trace gravel 0.69		AU	1		
		ss	2	100	22
		ss	3	92	29
GLACIAL TILL: Compact to dense, brown silty sand with gravel, cobbles		ss	4	83	46
and boulders		ss	5	50	50

REMARKS								HOLE NO.
BORINGS BY Track-Mount Power Auge	ər			D	ATE 、	January 1	0, 2022	BH22A-21
SOIL DESCRIPTION	PLOT		SAN	IPLE		DEPTH	ELEV.	Pen. Resist. Blows/0.3m ● 50 mm Dia. Cone
	STRATA I	ТҮРЕ	NUMBER	°. ∧ Secovery	VALUE Pr RQD	(m)	(m)	Pen. Resist. Blows/0.3m ● 50 mm Dia. Cone ○ Water Content % 20 40 60 80
GROUND SURFACE	N.	- .	IJ	REC	N V		100.00	20 40 60 80
TOPSOIL 0.20	- 	-				0-	-102.98	
Loose, brown SILTY SAND , trace gravel 0.69		🕈 AU	1					
			_			4	-101.98	
		∦ ss	2	100	22	1 -	-101.96	
		∦ ss	3	92	29	0	-100.98	
						27	-100.96	
GLACIAL TILL: Compact to dense,		ss	4	83	46			
brown silty sand with gravel, cobbles		Δ				0	00.00	
and boulders		ss	5	50	50+	3-	-99.98	
		Δ	· ·					
		RC	1	77			00.00	
		_				4-	-98.98	
		RC	2	14		-	07.00	
			_			5-	-97.98	
5.97								
						6-	-96.98	
		RC	3	100	94			
						_		
		_				7-	-95.98	
BEDROCK: Excellent quality, grey dolostone interbedded with grey		RC	4	100	100		- /	
limestone			4	100	100	8-	-94.98	
		_						
						9-	-93.98	
		RC	5	100	100			
10.21						10-	-92.98	
End of Borehole								
(GWL @ 2.49m - 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 Ottawa, Ontario

FILE NO.

PG5570

9 Auriga Drive, Ottawa, Ontario K2E 7T9

DATUM Geodetic

REMARKS

BORINGS BY Track-Mount Power Auge	er			D	ATE	Decembe	er 20, 202	21	HOLE		
SOIL DESCRIPTION	PLOT		SAN	IPLE		DEPTH	ELEV.			Blows/0.3ı Dia. Cone	ter u
	STRATA	ТҮРЕ	NUMBER	% RECOVERY	N VALUE or RQD	(m)	(m)	0 V	/ater C	ontent %	Piezometer Construction
GROUND SURFACE	N N		Z	RE	z °	0	100.00	20	40	60 80	- 0
TOPSOIL0.28						0-	102.38				
Stiff, brown SILTY CLAY, some sand		§ AU ∏	1								
1.12 GLACIAL TILL: Dense, brown silty sand with gravel, cobbles and		∦.ss	2	25	32	1-	-101.38				
boulders, trace clay1.83 End of Borehole		ss	3	55					· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	
Practical refusal to augering at 1.83m depth											
(Piezometer damaged - Jan. 11, 2022)											
								20 Shea ▲ Undist		60 80 ngth (kPa) △ Remould	100

SOIL PROFILE AND TEST DATA

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

20

▲ Undisturbed

40

Shear Strength (kPa)

60

80

△ Remoulded

100

FILE NO.

9 Auriga Drive, Ottawa, Ontario K2E 7T9

REMARKS	

Geodetic DATUM

DEMARKO									PG	5570	
REMARKS					_					E NO.	
BORINGS BY Track-Mount Power Auge	er			D	ATE [Decembe	r 20, 202	21	BH	24-21	
SOIL DESCRIPTION	PLOT		SAN	IPLE		DEPTH	ELEV.			Blows/0.3m Dia. Cone	Well
	STRATA I	ТҮРЕ	NUMBER	% RECOVERY	VALUE r rod	(m)	(m)		later	Content %	Monitoring Well Construction
GROUND SURFACE	ST	Ĥ	ЮN	REC	N N N			20	40	60 80	Non
TOPOOU						0-	-103.07				
0.00			1							· · · · · · · · · · · · · · · · · · ·	<u></u>
Loose to dense, brown SILTY SAND to SANDY SILT		ss	2	58	8	1-	-102.07				
1.83		ss	3	75	32						ជំលើកលើលៅសំលើសំលើសំលើសំលើសំលើសំលើសំលើសំលើសំលើសំលើ
		_ 33 ≈ SS	4	50	50+	2-	-101.07				
GLACIAL TILL: Dense, brown silty sand with gravel, cobbles and		RC	1	100							
boulders			0	10		3-	-100.07				
- boulders cored from 2.46 to 4.42m depth		RC	2	19		4-	-99.07				<u>հրդհր</u>
4.42		-									
		RC	3	100	81	5-	-98.07				
BEDROCK: Good to excellent											
quality, grey limestone interbedded with dolostone						6-	-97.07		· · · · · · · · · · · · · · · · · · ·		
- 15mm thick mud seam at 5.25m		RC	4	100	100						
depth						7-	-96.07				
7.92		RC	5	100	100						
End of Borehole											
(GWL @ 0.67m - Jan. 11, 2022)											

SOIL PROFILE AND TEST DATA

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

DATUM Geodetic						lawa, Oi			FILE NO.		
REMARKS									PG55		
BORINGS BY Track-Mount Power Auge	er			D	ATE	Decembe	er 21, 202	21	BH25		
SOIL DESCRIPTION	РГОТ		SAN			DEPTH (m)	ELEV. (m)		esist. Bl) mm Dia	ows/0.3m a. Cone	eter ction
	STRATA	ТҮРЕ	NUMBER	% RECOVERY	N VALUE or RQD	(,	(,	0 W	ater Co	ntent %	Piezometer Construction
GROUND SURFACE	_ ເ		ŊŊ	REC	z ^õ	0	-102.73	20	40 6	60 80	
TOPSOIL 0.25 Loose, brown SILTY SAND, trace clay and gravel		AU	1			0	102.75				
End of Borehole		ss	2	71	50+	1-	-101.73				
Practical refusal to augering at 1.17m depth											
(GWL @ 0.71m - Jan. 11, 2022)											
								20 Shea ▲ Undistu	r Streng	60 80 1 th (kPa) Remoulded	00

SOIL PROFILE AND TEST DATA

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

						lawa, Oi	itano		
DATUM Geodetic									FILE NO. PG5570
REMARKS									HOLE NO.
BORINGS BY Track-Mount Power Auge	er			D	ATE	Decembe	er 21, 202	21	BH26-21
SOIL DESCRIPTION	PLOT		SAN	IPLE	1	DEPTH			esist. Blows/0.3m
	STRATA	ТҮРЕ	NUMBER	% RECOVERY	N VALUE or RQD	(m)	(m)		Atter Content % Atter Content %
GROUND SURFACE		Ĥ	IŪN	REC	N N N N N	0-	-103.04	20	40 60 80
TOPSOIL 0.25 Stiff, brown SILTY CLAY, some sand 0.69	[XX	AU	1				100.04		
GLACIAL TILL: Dense, brown silty		ss	2	40	50+	1-	-102.04		
sand with gravel, cobbles and boulders, trace clay		V							
2.16 End of Borehole		∦ ss	3	61	33	2-	101.04		
Practical refusal to augering at 2.16m depth									
(GWL @ 0.78m - Jan. 11, 2022)									
								20 Shea ▲ Undist	40 60 80 100 I r Strength (kPa) urbed

SOIL PROFILE AND TEST DATA

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

						lawa, Oi					
DATUM Geodetic									FILE NO		
REMARKS							04 000		HOLE	Ю.	
BORINGS BY Track-Mount Power Auge			~~~		DATE	Decembe	er 21, 202		BH27		
SOIL DESCRIPTION	PLOT		SAN	IPLE	1	DEPTH	ELEV.			lows/0.3m ia. Cone	ter
		띮	JER	TERY	VALUE r rod	(m)	(m)				Piezometer Construction
	STRATA	ТҮРЕ	NUMBER	°% RECOVERY	N VA.					ontent %	Piez
GROUND SURFACE TOPSOIL 0.28				Ř	4	0-	102.71	20	40	60 80	
0.28		AU	1								
				07	10	1-	-101.71				_₩₽
Compact to loose, brown SILTY SAND to SANDY SILT, trace clay		ss	2	67	19		101.71				
		ss	3	83	21						
						2-	-100.71			······································	
- grey by 2.4m depth		ss	4	50	9				• • • • • • • • • •	•••••••••••••••••••••••••••••••••••••••	
3.12		∐ ₩				3-	-99.71				
GLACIAL TILL: Very loose, grey silty.43	^^^^/	¶ ∏ss	5	86	3				· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	
boulders	+	j									
Practical refusal to augering at 3.43m											
depth											
(GWL @ 0.84m - Jan. 11, 2022)											
								20	40		⊣ I 00
								Shea		gth (kPa) △ Remoulded	

SOIL PROFILE AND TEST DATA

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

									1		
DATUM Geodetic									FILE NO		
REMARKS									HOLE N		
BORINGS BY Track-Mount Power Auge	er			D	DATE	Decembe	er 21, 202	21	BH28	·21	
SOIL DESCRIPTION	PLOT		SAN		1	DEPTH (m)	ELEV. (m)		esist. Bl 0 mm Dia	ows/0.3m a. Cone	eter ction
	STRATA	ТҮРЕ	NUMBER	°% RECOVERY	VALUE r RQD	(,	(,	• v	later Co	ntent %	Piezometer Construction
GROUND SURFACE	ι. Σ		Ŋ	REC	N OF		101.05	20	40	60 80	
TOPSOIL0.30		₽-				0-	-101.85				
		§ AU ∛ SS	1	42	7	1-	-100.85				
Loose, brown SILTY SAND to SANDY SILT, trace clay		\square					100.00			· · · · · · · · · · · · · · · · · · ·	
2.21		ss	3	58	8	2-	-99.85				
Interbedded layers of grey SILTY SAND and grey SILTY CLAY		ss	4	100	2	3-	-98.85				
GLACIAL TILL: Very loose, grey silty sand with clay, gravel and cobbles		ss	5	100	3					· · · · · · · · · · · · · · · · · · ·	
3.89 End of Borehole	<u>`^^^^</u> ^	≊.SS	6		50+						<u>-898</u>
Practical refusal to augering at 3.89m depth											
(GWL @ 1.79m - Jan. 11, 2022)											
								20 Shea ▲ Undist	ar Streng	60 80 1 th (kPa) △ Remoulded	⊣ 00

SOIL PROFILE AND TEST DATA

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

40

Shear Strength (kPa)

20

▲ Undisturbed

60

80

△ Remoulded

100

00

DATUM Geodetic						,			FILE NO. PG5570		
REMARKS						Decembe	w 01 000	14	HOLE NO. BH29-21		
BORINGS BY Track-Mount Power Auge SOIL DESCRIPTION	PLOT		SAN	IPLE	ATE	Decembe	ELEV.	Pen. Re	esist. Blow mm Dia. (vs/0.3m	er ion
SOIL DESCRIPTION	STRATA P	ТҮРЕ	NUMBER	% RECOVERY	VALUE Pr RQD	(m)	(m)		ater Conte		Piezometer Construction
GROUND SURFACE	ร		NC	REC	N OF C		100.01	20	40 60	80	<u>с</u> О
TOPSOIL0.28		AU	1			- 0-	-102.31				
		ss	2	50	9	1-	-101.31				
Loose to very loose, brown SILTY SAND to SANDY SILT, trace clay			0	07							
- grey by 1.9m depth		SS	3	67	8	2-	-100.31				
		ss	4	67	4	2-	-99.31				
 intermittent layers of grey silty clay by 3.0m depth 		ss	5	58	2		99.01				
3.96 End of Borehole			6	67							
Practical refusal to augering at 3.96m depth											
' (Piezometer damaged - Jan. 11, 2022)											

SOIL PROFILE AND TEST DATA

Geotechnical Investigation Prop. Residential Development - 6115 Flewellyn Road

Piezometer Construction

100

Shear Strength (kPa)

 \triangle Remoulded

▲ Undisturbed

9 Auriga Drive, Ottawa, Ontario K2E 7T9					Ot	tawa, Or	tario				,, , ,
DATUM Geodetic					FILE	NO. 5570					
REMARKS										E NO.	
BORINGS BY Track-Mount Power Auge	er			D	ATE [Decembe	r 21, 202	21		30-21	
SOIL DESCRIPTION	PLOT		SAN	IPLE		DEPTH	ELEV.	Pen. R		Blows Dia. C	
	STRATA P	ТҮРЕ	NUMBER	°∞ RECOVERY	VALUE r ROD	(m)	(m)			Conten	
	STF	ТХ	NUN		N OF						
GROUND SURFACE TOPSOIL 0.25				щ		0-	-102.44	20	40	60 	80
0.25		×-									
		Sau ∏	1							· · · · · · · · · · · · · · · · · · ·	
		≬ ss	2	50	12	1-	-101.44				
Compact to very loose, brown SILTY SAND to SANDY SILT, trace clay											
SAND to SANDT SILT, trace clay		ss	3	33	10	_					
- grey by 2.0m depth		Δ				2-	-100.44				
grey by 2.0m depth		ss	4	92	1						· · · · · · · · · · · · · · · · · · ·
		\square	7	52	1	_					
		∇				3-	-99.44				
<u>3.45</u>		∦_ss	5	83	2						
GLACIAL TILL: Very loose to											
compact, grey silty sand with gravel, cobbles and boulders, trace clay		∬ss	6	33	24	4-	-98.44				······································
4.82		ss	7	50	50+						
End of Borehole											
Practical refusal to augering at 4.82m depth											
(GWL @ 1.62m - Jan. 11, 2022)											
				1	1			20	40	60	80

SOIL PROFILE AND TEST DATA

Geotechnical Investigation Prop. Residential Development - 6115 Flewellyn Road

Piezometer Construction

100

△ Remoulded

▲ Undisturbed

9 Auriga Drive, Ottawa, Ontario K2E 71	9				Ot	tawa, Or	ntario	•		•
DATUM Geodetic									FILE NO.	
REMARKS									PG557	
BORINGS BY Track-Mount Power Aug	er			D	ATE	Decembe	er 21, 202	21	BH31-	
SOIL DESCRIPTION	PLOT		SAN	IPLE	I	DEPTH	ELEV.		lesist. Blo 50 mm Dia	
	STRATA F	ТҮРЕ	NUMBER	[%] RECOVERY	VALUE r RQD	(m)	(m)		Vater Con	
GROUND SURFACE	STF	7T	NUN	RECO	N OL			20	40 6	
TOPSOIL 0.36	6					0-	-103.43			
		AU	1	50		1-	-102.43			
		ss	2	50	14		-102.43			
Compact to loose, brown SILTY		ss	3	50	22	2-	-101.43			
SAND to SANDY SILT, trace clay		ss	4	42	9		100.40			
- grey by 3.2m depth		ss	5	58	5	3-	-100.43			
		ss	6	42	12	4-	-99.43			
4.72	2 1 1 1 1 1 1 1 1 1 1 1 1 1	∐ ∦ ss	7	58	37	5-	-98.43			
GLACIAL TILL: Dense, grey silty sand with gravel, cobbles and boulders		∕∐ ∭ss	8		58	5	90.40			
	2 \^^^^^	-ss	9	0	50+	6-	-97.43			
Practical refusal to augering at 6.12m depth										
(GWL @ 1.27m - Jan. 11, 2022)										
								20 Shea	40 6 ar Strengt	0 80 th (kPa)

SOIL PROFILE AND TEST DATA

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

						tawa, Or					
TUM Geodetic									FILE NO.		
						. .	o		HOLE NO).	
RINGS BY Track-Mount Power Auge	er 				ATE	Decembe	er 21, 202		BH32-		
SOIL DESCRIPTION	PLOT		SAN			DEPTH (m)	ELEV. (m)		esist. Blo 0 mm Dia	ows/0.3m a. Cone	atar
	STRATA	ТҮРЕ	NUMBER	* RECOVERY	N VALUE or RQD	(,	()	• v	ater Cor	ntent %	Piezometer
ROUND SURFACE	ν. Γ		N	REC	z ⁰		100 74	20	40 6	60 80	
PSOIL 0.15		X AU				0-	-103.74				
mpact to dense, brown SILTY ND to SANDY SILT		$\overline{\nabla}$	1	07	20	1-	-102.74		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	
IND to SANDY SILI		ss	2	67	39		102.74		•		
rey 1.4m depth		ss	3	67	26	2-	-101.74		• • • • • • • • • • • • • • • •		
2.21 ACIAL TILL: Grey silty sand with 2.36 avel, cobbles and boulders		<u>≓</u> SS	4	50	50+						
d of Borehole											
actical refusal to augering at 2.36m pth											
WL @ 1.62m - Jan. 11, 2022)											
	1										
								20	40 E	60 80 1	⊣ 100
									r Streng	th (kPa)	

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.		
BORINGS BY Track-Mount Power Auge	er 	1		D	ATE	Decembe	er 22, 202		BH33-21		<u> </u>
SOIL DESCRIPTION	PLOT			IPLE 거	M .	DEPTH (m)	ELEV. (m)		esist. Blow 0 mm Dia. (ig Well tion
	STRATA	ТҮРЕ	NUMBER	% RECOVERY	N VALUE or RQD			• v	ater Conte	ent %	Monitoring Well Construction
GROUND SURFACE			-	R	z ⁰	0-	104.70	20	40 60	80	ΣŬ
Compact, brown SILTY SAND, trace clay and organics		i au I ss	1 2	50	13		-103.70				
1.45			_								
GLACIAL TILL: Compact, brown silty sand with gravel, cobbles and		SS RC	3 1	8 30	11	2-	-102.70			· · · · · · · · · · · · · · · · · · ·	<u>11111111111</u> ₩ 111111111111111111111111
boulders2.74						3-	-101.70				
		RC	2	100	73	1-	-100.70				
BEDROCK: Good to excellent quality, grey limestone		_				4	100.70				
- 25mm thick mud seam at 3.7m depth		RC	3	95	85	5-	-99.70				
- 30mm thick mud seam at 3.8m depth 6.27 End of Borehole		RC	4	100	100	6-	-98.70				
(GWL @ 1.84m - Jan. 11, 2022)								20	40 60		00
								Snea ▲ Undist	ar Strength $rac{1}{2}$	(KPa) lemoulded	

SOIL PROFILE AND TEST DATA

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

 \blacktriangle Undisturbed \triangle Remoulded

9 Auriga Drive, Ottawa, Ontario K2E 7T9

DATUM Geodetic									FILE NO. PG5570	
REMARKS									HOLE NO.	
BORINGS BY Track-Mount Power Aug	er	1		D	ATE	Decembe	er 22, 202	21	BH34-21	1
SOIL DESCRIPTION	РІОТ		SAN			DEPTH (m)	ELEV. (m)		esist. Blows/0.3m 0 mm Dia. Cone	leter uction
	STRATA	TYPE	NUMBER	% RECOVERY	N VALUE or ROD			• v	Vater Content %	Piezometer Construction
GROUND SURFACE TOPSOIL 0.25				8	2	0-	102.65	20	40 60 80	
0.25		SS AU	5 1	17	8					
Compact to loose, brown SILTY SAND to SANDY SILT		ss	2	42	10	1-	-101.65			
<u>2.2</u> 1		ss	3	25	9	2-	-100.65			-
		ss	4	17	2	2-	-99.65			
GLACIAL TILL: Very loose to loose, grey silty sand with gravel, cobbles						5	-99.00			
and boulders, trace clay		RC	1	31		4-	-98.65			
5.21		RC	2	100	100	5-	-97.65			-
BEDROCK: Excellent quality, grey limestone interbedded with dolostone										-
6.61		RC	3	100	100	6-	-96.65			
End of Borehole										
								20 Shea	40 60 80 1 ar Strength (kPa)	00

SOIL PROFILE AND TEST DATA

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

······································	-				01	itawa, Or	ntario			
DATUM Geodetic									FILE NO. PG5570	
REMARKS								-	HOLE NO.	
BORINGS BY Track-Mount Power Aug	er				DATE	January 7	7, 2022		BH35-21	
SOIL DESCRIPTION	PLOT		SAN			DEPTH (m)	ELEV. (m)		esist. Blows/0.3m) mm Dia. Cone	eter ction
	STRATA	ТҮРЕ	NUMBER	% RECOVERY	N VALUE or RQD		(,	• W	ater Content %	Piezometer Construction
GROUND SURFACE	້ນ		N I	REC	Z O			20	40 60 80	
TOPSOIL 0.28	3	₩-				0-	-105.03			
Loose to compact, brown SILTY SAND to SANDY SILT		SS AU		50	7	1-	-104.03			
<u>1.68</u>	3	ss	3	50	25	2-	-103.03			
GLACIAL TILL: Compact to very dense, grey silty sand with gravel, cobbles and boulders		ss	4	25	56	3-	-102.03			
3.5 End of Borehole	1	∦ ss	5	67	50+					
Practical refusal to augering at 3.51m depth.										
(GWL @ 1.22m - Jan. 11, 2022)										
								20 Shea ▲ Undistu	r Strength (kPa)	⊣ 00

SOIL PROFILE AND TEST DATA

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

						tunu, or						
DATUM Geodetic									FILE N			
REMARKS BORINGS BY Track-Mount Power Auge	r			п	ATE .	January 7	7 2022		HOLE BH3			
SOIL DESCRIPTION	PLOT		SAN	IPLE		DEPTH	ELEV.		esist.	Blows/0.3 Dia. Cone	m	er ion
	STRATA P	ТҮРЕ	NUMBER	% RECOVERY	VALUE r RQD	(m)	(m)			Content %		Piezometer Construction
GROUND SURFACE	ST ST	H	ŊN	REC	N OR C		100 70	20	40	60 80)	ΞŎ
TOPSOIL 0.30	ارتقاق	×				0-	-102.79					
Compact, brown SILTY SAND to SANDY SILT		§ AU ∦ SS	1	42	15	1-	-101.79		• • • • • • • • • • •	· · · · · · · · · · · · · · · · · · ·		¥
1.45		x ss	3	60	50+							
GLACIAL TILL: Very dense to compact, brown silty sand with gravel, cobbles and boulders						2-	-100.79					
2.902.90		ss 	4	8	15						·····	
Practical refusal to augering at 2.90m depth.												
(GWL @ 0.62m - Jan. 11, 2022)												
								20 Shea ▲ Undistr	40 r Stre urbed	60 80 ngth (kPa) △ Remould		00

SOIL PROFILE AND TEST DATA

Geotechnical Investigation Prop. Residential Development - 6115 Flewellyn Road

9 Auriga Drive, Ottawa, Ontario K2E / I	9				O	ttawa, Or	ntario	-		•			
DATUM Geodetic									FILE NO				
REMARKS									PG55				
BORINGS BY Track-Mount Power Aug	ger				DATE	January 7	7, 2022	1	BH37-				
SOIL DESCRIPTION	PLOT		SAI	MPLE		DEPTH (m)	ELEV. (m)	Pen. Resist. Blows/0.3m ● 50 mm Dia. Cone					
	STRATA	ТҮРЕ	NUMBER	% RECOVERY	N VALUE or RQD		(,	• V	Vater Co	ntent %	Piezometer Construction		
GROUND SURFACE	L2		NC	REC	Z O			20	40	60 80			
TOPSOIL 0.3	6	~				- 0-	103.54						
		B B B B B B B B B B B B B B B B B B B	1				100 54			· · · · · · · · · · · · · · · · · · ·			
Compact to dense, brown SILTY SAND to SANDY SILT		∬ SS	2	42	22	1-	102.54						
SAND IU SANDT SILI		ss	3	58	34								
	1					2-	101.54						
GLACIAL TILL: Very dense, grey silty sand with gravel, cobbles and 2.6	7	X SS	4	50	50+				· · · · · · · · · · · · · · · · · · ·				
boulders	-+	- H											
Practical refusal to augering at 2.67m depth.													
' (GWL @ 1.52m - Jan. 11, 2022)													
								20	40 (60 80 1	 00		
									ar Streng				
	1	1	1	1	1	1	1		.uiueu ∠				

SOIL PROFILE AND TEST DATA

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

9 Auriga Drive, Ottawa, Ontario K2E 7T9

						lawa, Ol	ilano								
DATUM Geodetic									FILE NO. PG5570						
REMARKS BORINGS BY Track-Mount Power Auge	er			D	ATE 、	January 7	7. 2022		HOLE NO. BH38-21						
SOIL DESCRIPTION	PLOT	SAMPLE				DEPTH ELEV.		Pen. Resist. Blows/0.3m • 50 mm Dia. Cone							
	STRATA F	ТҮРЕ	NUMBER	% RECOVERY	N VALUE of RQD	(m)	(m)		/ater Content %		Piezometer Construction				
GROUND SURFACE	ST	Ĥ	IŪN	REC	N OL		400.00	20		30	щÖ				
FILL: Crushed stone and gravel 0.15			1			0-	-103.62								
Dense to compact, brown SILTY SAND to SANDY SILT		ss	2		32	1-	-102.62								
- grey by 2.0m depth		ss	3		24	2-	-101.62								
2.64 End of Borehole		≖ SS 	4	100	50+										
Practical refusal to augering at 2.64m depth.															
(GWL @ 1.94m - Jan. 11, 2022)															
								20 Shea ▲ Undistu	r Strength (kPa		0				

SOIL PROFILE AND TEST DATA

 \blacktriangle Undisturbed \triangle Remoulded

Geotechnical Investigation 6070 and 6115 Flewellyn Road Ottawa, Ontario

154 Colonnade Road South, Ottawa, Ontario K2E 7J5

DATUM Geodetic									FILE	NO. PG5570	
REMARKS									HOLI		
BORINGS BY CME-55 Low Clearance	Drill			D	ATE	Novembe	er 20, 202	20		TP 1	
	РІОТ	SAMPLE					ELEV.	Pen. Resist. Blows/0.3m			
SOIL DESCRIPTION		<i>«</i>		X HO		(m)	(m)	• 5) mm	Dia. Cone	nete
	STRATA	ТҮРЕ	NUMBER	° ≈	N VALUE or RQD			• •	ater (Content %	Piezometer Construction
GROUND SURFACE	LN LN	н	NN	REC	N O			20	40	60 80	ĒÖ
TOPSOIL 0.15		X G	1			0-	-105.94				
GLACIAL TILL: Brown silty sand with 25 gravel and some clay BEDROCK Weathered interbedded _{0.44} limestone End of Test Pit Practical refusal to excavation at 0.44m depth (TP dry upon completion)		G	2 3					O.			
								20 Shea	40 r Stre	60 80 1 ength (kPa)	00

SOIL PROFILE AND TEST DATA

Geotechnical Investigation 6070 and 6115 Flewellyn Road Ottawa, Ontario

154 Colonnade Road South, Ottawa, Ontario K2E 7J5

DATUM Geodetic									FI	LE NO.	PG5570)	
REMARKS BORINGS BY CME-55 Low Clearand	e Drill			Г		Novembe	er 20 202	20	н	OLE NO	^{).} TP 2		
			SAMPLE						Pen. Resist. Blows/0.3m				
SOIL DESCRIPTION	LOT		~	к	El o	DEPTH (m)	ELEV. (m)		50 m	m Dia	. Cone	Piezometer	
	STRATA	ТҮРЕ	NUMBER	~ RECOVERY	N VALUE or RQD			C	Wate	er Con	itent %	iezon	
GROUND SURFACE	- S		Ŋ	REC	NO	0-	-105.06	2	:0 40	0 6	0 80		
TOPSOIL 0.	<u>2</u> 1	G	1				100.00						
								O					
Brown SILTY SAND, trace gravel		G	2							•			
0	92												
0						1-	104.06	O					
GLACIAL TILL: Brown silty sand with pravel, cobbles and boulders		Ĩ											
ravel, cobbles and boulders		G	3										
1. End of Test Pit	64 (^^^^^	1											
IP terminated on inferred bedrock surface at 1.64m depth													
TP dry upon completion)													
								-					
								2	0 40 Shear S	o 6 Strengt	0 80 1 t h (kPa)	00	
								▲ U	ndisturbe	ed ∆	Remoulded		

154 Colonnade Road South, Ottawa, Ontario K2E 7J5

SOIL PROFILE AND TEST DATA

FILE NO.

PG5570

Geotechnical Investigation 6070 and 6115 Flewellyn Road Ottawa, Ontario

DATUM Geodetic

BORINGS BY CME-55 Low Clearance	Drill			D	ATE	Novembe	er 20. 202	20	HOLE NO	^{o.} TP 3	
SOIL DESCRIPTION	PLOT		SAN	IPLE		DEPTH (m)	ELEV. (m)	Pen. R	esist. Bl 0 mm Dia	lows/0.3m a. Cone	eter ction
	STRATA	ТҮРЕ	NUMBER	% RECOVERY	N VALUE or RQD	(11)	(11)		Vater Co		Piezometer Construction
GROUND SURFACE				<u>д</u>		0-	102.10	20	40 (60 80	
TOPSOIL	5	G	1					Ō			
Brown SILTY SAND, trace sea shells		G	2								
0.38								O			
GLACIAL TILL: Brown silty sand with						1-	-101.10				
GLACIAL TILL: Brown silty sand with gravel, cobbles and boulders		G	3								
<u>1.6</u> 1 End of Test Pit											-
TP terminated on inferred bedrock surface at 1.61m depth											
(TP dry upon completion)											
								20 Shea	ar Streng	jth (kPa)	00
								▲ Undist	urbed	Remoulded	

SOIL PROFILE AND TEST DATA

Ó

Ò

20

▲ Undisturbed

40

Shear Strength (kPa)

60

80

△ Remoulded

100

1+107.49

Geotechnical Investigation 6070 and 6115 Flewellyn Road Ottawa, Ontario

154 Colonnade Road South, Ottawa, Ontario K2E 7J5

Geodetic

DATUM

rill			D	ATE Î	Novembe	r 20, 202	20
LOT		SAM	IPLE		DEPTH	ELEV.	
		R	RY	ШШ	(m)	(m)	
RAT	TPE	IMBE	ove ove	VALI RQ			
LS	н	NN	REC	N N		109 40	
\rangle	G	1			0-	100.49	
	G	2					
	STRATA PLOT	STRATA PLOT	SAM PLOT STRATA PLOT STRATA PLOT G 1	STRATA PLOT STRATA PLOT TYPE G 1 RECOVERY	STRATA PLOT STRATA PLOT STRATA PLOT STRATA PLOT STRATA PLOT STRATA PLOT	STRATA PLOT STRATA PLOT STRATA PLOT STRATA PLOT (m) G 1 G 1 G 1 G 1 G 1 G 1 G 1 G 1 G 1 G 1	LOTA SAMPLE BALL ABAR BALL ABAR <td< td=""></td<>

G

3

GLACIAL TILL: Brown silty sand, some gravel, cobble, boulder, trace clay <u>1.43</u> End of Test Pit

Test Pit terminated on bedrock surface at 1.43m depth

(TP dry upon completion)

FILE NO.	PG5570

HOLE NO.

IP 4	ŀ
------	---

Pen. Resist.	Blows/0.3m

Pen. ●	Resist. 50 mm			neter uction
0	Water C	Conter	nt %	Piezon Constr
20	40	60	80	L C

154 Colonnade Road South, Ottawa, Ontario K2E 7J5

SOIL PROFILE AND TEST DATA

FILE NO.

PG5570

Geotechnical Investigation 6070 and 6115 Flewellyn Road Ottawa, Ontario

DATUM Geodetic

REMARKS

				_					HOLE	^{ю.} TP 5	
BORINGS BY CME-55 Low Clearance					ATE	Novembe	er 20, 202				
SOIL DESCRIPTION	PLOT			/IPLE 건	M -	DEPTH (m)	ELEV. (m)			Blows/0.3m ia. Cone	Piezometer Construction
	STRATA	ТҮРЕ	NUMBER	° ≈ © © © ©	N VALUE or RQD			• V	Vater Co	ontent %	Piezon Constri
GROUND SURFACE	01		4	RE	zº	0-	-108.36	20	40	60 80	
TOPSOIL	2	G	1					O			
Brown SILTY SAND		G	2								
<u> </u>	6					1-	-107.36	0			-
GLACIAL TILL: Brown silty sand, some gravel, cobble, and boulder End of Test Pit	6 <u> ^^^^</u>	G	3								
TP terminated on inferred bedrock surface at 1.46m depth											
(Groundwater infiltration at 1.28m - Nov 20, 2020)								20	10		
								20 Shea ▲ Undisi		60 80 1 gth (kPa) △ Remoulded	00

SOIL PROFILE AND TEST DATA

Geotechnical Investigation 6070 and 6115 Flewellyn Road Ottawa, Ontario

154 Colonnade Road South, Ottawa, Ontario K2E 7J5

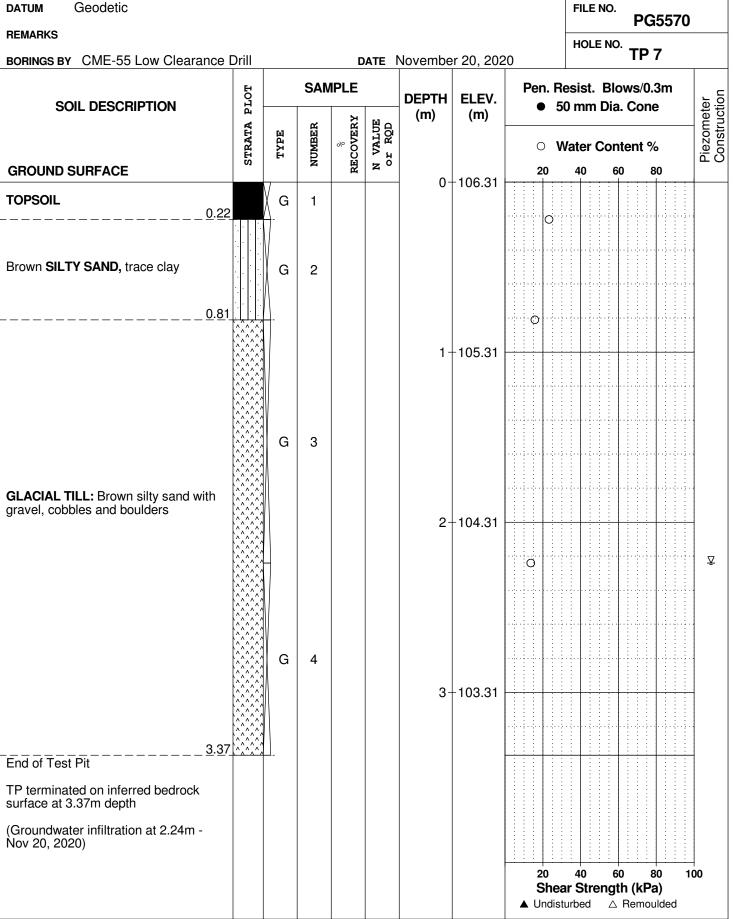
D

DATUM Geodetic									FILE NO. PG5570	
REMARKS BORINGS BY CME-55 Low Clearance	Drill					Novembe	ar 20 202	20	HOLE NO. TP 6	
SOIL DESCRIPTION			SAN	IPLE		DEPTH	ELEV.	Pen. Re	esist. Blows/0.3m 0 mm Dia. Cone	er tion
	ATA PLOT	PΕ	BER	ÆRY	LUE QD	(m)	(m)			Piezometer Construction
GROUND SURFACE	STRATA	ЭДХТ	NUMBER	% RECOVERY	N VALUE of ROD			0 W 20	Vater Content % 40 60 80	Pie: Cor
TOPSOIL		G	1			- 0-	-107.91	0		
Brown SILTY SAND, trace cobble, boulders and seashells		G	2			1-	-106.91			
<u>1.70</u>		G	3							¥
BEDROCK: Weathered interbedded limestone		G	4			2-	-105.91			
2.89 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 Shea ▲ Undisti	ar Strength (kPa)	00

SOIL PROFILE AND TEST DATA

Geotechnical Investigation 6070 and 6115 Flewellyn Road Ottawa, Ontario

154 Colonnade Road South, Ottawa, Ontario K2E 7J5



SOIL PROFILE AND TEST DATA

FILE NO.

PG5570

Geotechnical Investigation 6070 and 6115 Flewellyn Road Ottawa, Ontario

154 Colonnade Road South, Ottawa, Ontario K2E 7J5

DATUM Geodetic

BORINGS BY CME-55 Low Clearance [Drill			П		Novembe	er 20 202	20	HOLE	^{NO.} TP 8	
SOIL DESCRIPTION			SAMPLE			DEPTH ELEV. (m) (m)		Pen. Resist. Blows/(Blows/0.3m	eter ction
	STRATA PLOT	ТҮРЕ	NUMBER	% RECOVERY	N VALUE or ROD	(11)	(11)	• V	Vater C	Piezometer Construction	
GROUND SURFACE	07		4	RE	zv	0-	105.48	20	40	60 80	
TOPSOIL		G	1				100.10	0			
Brown SILTY SAND, trace clay and organics		G	2			1-	-104.48	C			
- increasing in silt content with depth		G	3			2-	- 103.48				
End of Test Pit TP terminated on inferred bedrock surface at 2.15m depth (TP dry upon completion)								20 Shot	40 ar Stror	60 80	100
								Snea ▲ Undist		ngth (kPa) △ Remoulded	

154 Colonnade Road South, Ottawa, Ontario K2E 7J5

SOIL PROFILE AND TEST DATA

FILE NO.

PG5570

Geotechnical Investigation 6070 and 6115 Flewellyn Road Ottawa, Ontario

DATUM Geodetic

REMARKS

RORINGS RV	CME-55	l ow Clearance	Г

BORINGS BY CME-55 Low Clearance [Drill			D	ATE	Novembe	er 20, 202	20	HOLE NO	TP 9	
SOIL DESCRIPTION		ы SAM			SAMPLE DEPTH EL			Pen. R	esist. Blo 0 mm Dia	eter ction	
	STRATA	ТҮРЕ	NUMBER	∾ RECOVERY	N VALUE or RQD	(,	(m)	• V	Vater Con	Piezometer Construction	
GROUND SURFACE	ω Ω		z	RE	z ^o	0-	104.47	20	40 6	0 80	
TOPSOIL 0.22		G	1			0	104.47	0			
Brown SILTY SAND, trace organics		G	2								
<u>0.79</u>						1_	-103.47	O			
GLACIAL TILL: Brown silty sand trace gravel, cobbles, and boulders		G	3				103.47				
<u>1.60</u> End of Test Pit	<u>`^^^^</u> ^^	Ц.									
TP terminated on inferred bedrock surface at 1.60m depth											
(TP dry upon completion)								20	40 6		
								20 Shea ▲ Undist	ar Strengt	0 80 10 h (kPa) Remoulded	00

SOIL PROFILE AND TEST DATA

FILE NO.

Geotechnical Investigation 6070 and 6115 Flewellyn Road Ottawa, Ontario

154 Colonnade Road South, Ottawa, Ontario K2E 7J5

Geodetic

DATUM

DEMARKO										PG5570	
REMARKS BORINGS BY CME-55 Low Clearance I	Drill			г		Decembe	r 10 202	20	HOLE N	^{ю.} ТР 10	
SOIL DESCRIPTION			SAN	/IPLE		DEPTH	ELEV.	Pen. R		lows/0.3m ia. Cone	er
	TA PLOT	凶	ER	ERY	ЯQ	(m)	(m)				Piezometer
	STRATA	ТҮРЕ	NUMBER	°% RECOVERY	N VALUE or RQD			0 \		ntent %	Piez
GROUND SURFACE				<u></u>	4	- 0-	-103.62	20	40	60 80	-
TOPSOIL0.17		G	1					0			
Brown SILTY SAND, trace gravel and cobbles		G	2								
GLACIAL TILL: Brown silty sand, with gravel, trace cobble and boulders		G	3					0			Ţ Ţ
End of Test Pit		<u> </u>									1
TP terminated on inferred bedrock surface at 0.76m depth											
(Groundwater infiltration at 0.51m - Dec 10, 2020)											
								20 She ▲ Undis	ar Streng	60 80 1 gth (kPa) ∆ Remoulded	⊣ 00

SOIL PROFILE AND TEST DATA

Geotechnical Investigation 6070 and 6115 Flewellyn Road Ottawa, Ontario

154 Colonnade Road South, Ottawa, On	tario k	(2E 7J	5			tawa, Or		ellyn Road			
DATUM Geodetic									FILE NO.	PG5570	
REMARKS									HOLE NO.		
BORINGS BY CME-55 Low Clearance	Drill			D	ATE	Decembe	er 10, 202	20		TP 11	
SOIL DESCRIPTION	PLOT		SAN			DEPTH (m)	ELEV. (m)		esist. Blov 0 mm Dia.		eter ction
	STRATA	ТҮРЕ	NUMBER	% RECOVERY	N VALUE or RQD		(,	0 N	/ater Cont	ent %	Piezometer Construction
GROUND SURFACE	ũ	_	Ā	RE	zö	0	-103.01	20	40 60	80	ЦО
TOPSOIL 0.15	5	G	1			0-	-103.01				
Brown SILTY SAND, trace gravel		G	2					0			
0.89		G	3					0			₽
GLACIAL TILL: Brown silty sand, with gravel, cobbles, and boulders		G	1			1-	-102.01				
End of Test Pit											
TP terminated on inferred bedrock surface at 1.49m depth											
(Groundwater infiltration at 0.89m - Dec 10, 2020)											
								20 Shea ▲ Undist	40 60 ar Strength urbed \triangle f	80 10 n (kPa) Remoulded	00

SOIL PROFILE AND TEST DATA

FILE NO.

PG5570

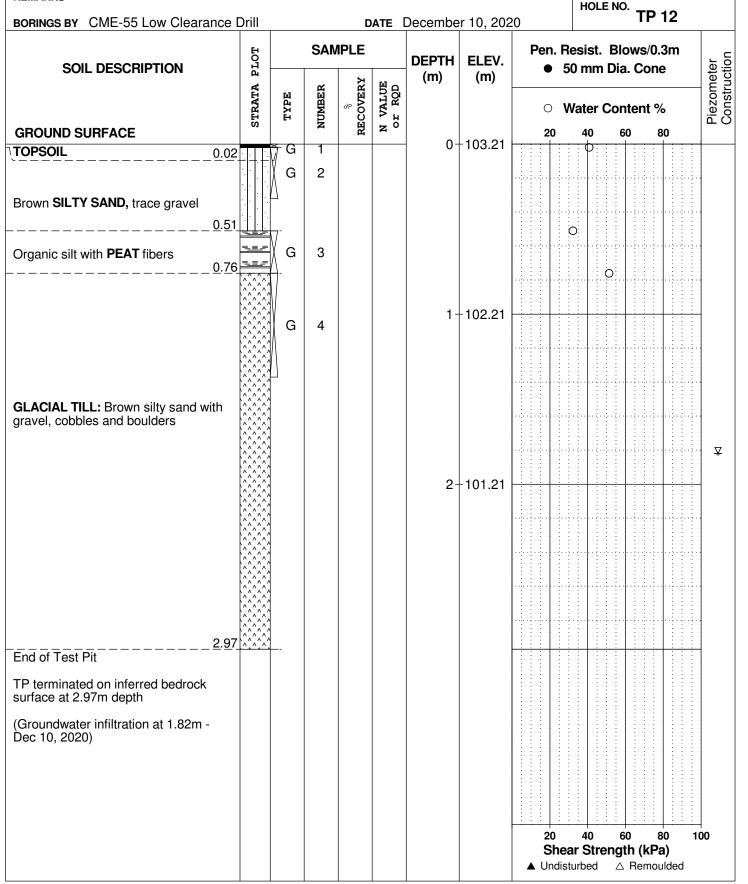
Geotechnical Investigation 6070 and 6115 Flewellyn Road Ottawa, Ontario

154 Colonnade Road South, Ottawa, Ontario K2E 7J5

Geodetic

REMARKS

DATUM



154 Colonnade Road South, Ottawa, Ontario K2E 7J5

SOIL PROFILE AND TEST DATA

FILE NO.

PG5570

Geotechnical Investigation 6070 and 6115 Flewellyn Road Ottawa, Ontario

DATUM Geodetic	

	 ~	

REMARKS									HOLE NO	TP 13	
BORINGS BY CME-55 Low Clearance	Drill			D	ATE	Decembe	er 10, 202	20		IFIJ	
SOIL DESCRIPTION	PLOT		SAN			DEPTH (m)	ELEV. (m)		esist. Blo 0 mm Dia		eter iction
	STRATA	ЛҮРЕ	NUMBER	» RECOVERY	VALUE r RQD		()	• V	later Con	tent %	Piezometer Construction
GROUND SURFACE	ŝ	L ·	IN	RE	N OF	0	104.20	20	40 60	0 80	L 0
TOPSOIL0.25		G	1				-104.30		0		
Brown SILTY SAND, trace organics		G	2								· ¥
GLACIAL TILL: Brown silty sand with gravel, cobbles and boulders		G	3								
End of Test Pit		<u> </u>									
TP terminated on inferred bedrock surface at 0.91m depth											
(Groundwater infiltration at 0.61m - Dec 10, 2020)											
								20 Shea	40 60 ar Strengt		00
								▲ Undist		Remoulded	

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SOIL PROFILE AND TEST DATA

FILE NO.

PG5570

Geotechnical Investigation 6070 and 6115 Flewellyn Road Ottawa, Ontario

DATUM	Geodetic	

REMARKS

CME-55	low Clearance

				_		Decembe	- 10 000		HOLE NO	^{).} TP 14	
BORINGS BY CME-55 Low Clearance D			SAN	IPLE		Decembe				ows/0.3m	
SOIL DESCRIPTION	PLOT				61	DEPTH (m)	ELEV. (m)		0 mm Dia		leter uction
	STRATA	ТҮРЕ	NUMBER	% RECOVERY	N VALUE or RQD			0 V	/ater Cor	ntent %	Piezometer Construction
GROUND SURFACE	ST	H	NN	REC	N OL		105.00	20	40 6	60 80	ĒÖ
TOPSOIL 0.30			1			0-	-105.60				
Brown SILTY SAND		 	2						0		-
GLACIAL TILL: Brown silty sand with gravel, cobbles, and boulders.	· · · · · · · · · · · · · · · · · · ·		3								
0.97	^^^^										
Practical refusal to excavation at 0.94m depth											
(TP dry upon completion)											
								20 Shor	40 (⊣ 00
								Snea ▲ Undist	urbed △	Remoulded	

154 Colonnade Road South, Ottawa, Ontario K2E 7J5

SOIL PROFILE AND TEST DATA

FILE NO.

PG5570

Geotechnical Investigation 6070 and 6115 Flewellyn Road Ottawa, Ontario

DATUM Geodetic

REMARKS

NEIMANNO									HOLI	E NO. T	P 15	
BORINGS BY CME-55 Low Clearance Dr	ill			D	ATE	Decembe	r 10, 202	20			P 15	1
	PLOT			IPLE		DEPTH (m)	ELEV. (m)	Pen. R • 5		Blows Dia. C		neter uction
	STRATA	ТҮРЕ	NUMBER	% RECOVERY	N VALUE or RQD			• V	Vater	Conter	nt %	Piezometer Construction
GROUND SURFACE	01	_,	4	RE	zv	0-	-106.80	20	40	60	80	
TOPSOIL0.18		G	1				100.00		0			
		G	2									
		G	3			1-	-105.80			0		
Brown SILTY SAND		G	4						Ŷ			
		7				2-	-104.80		0			Ţ
		G	5									
GLACIAL TILL: Grey silty sand with 2.74		ĞG	6							ρ		-
End of Test Pit]										
TP terminated on inferred bedrock surface at 2.74m depth												
(Groundwater infiltration at 2.28m - Dec 10, 2020)												
								20 Shea ▲ Undist		60 ength (△ Re		⊣ 00

154 Colonnade Road South, Ottawa, Ontario K2E 7J5

SOIL PROFILE AND TEST DATA

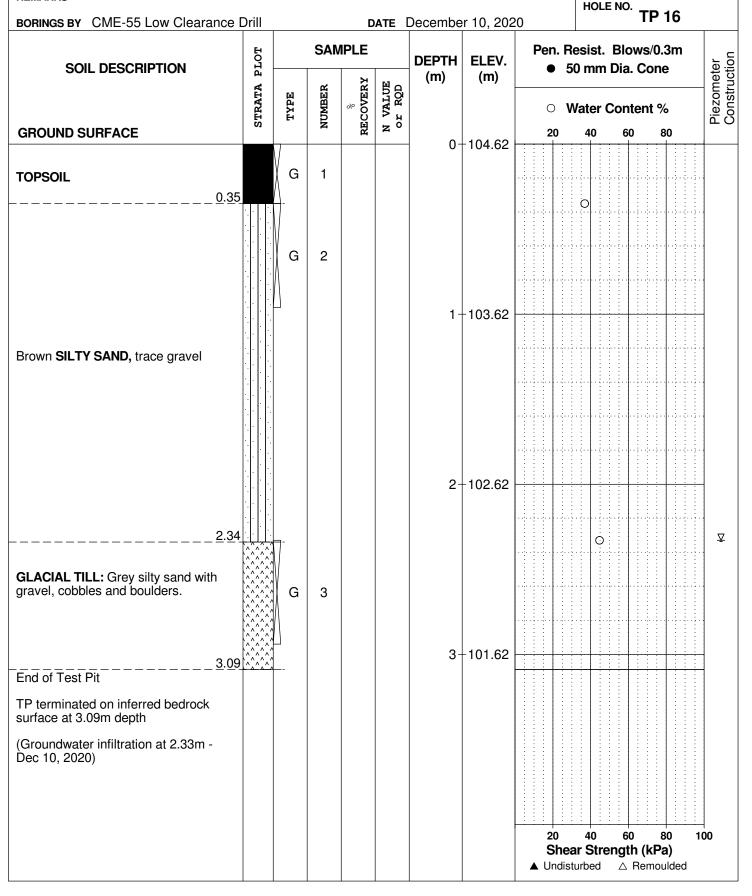
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Geotechnical Investigation 6070 and 6115 Flewellyn Road Ottawa, Ontario

DATUM Geodetic

REMARKS



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SOIL PROFILE AND TEST DATA

FILE NO.

PG5570

Geotechnical Investigation 6070 and 6115 Flewellyn Road Ottawa, Ontario

DATUM Geodetic

nemanno									HOLE	^{NO.} TP	17	
BORINGS BY CME-55 Low Clearance	Drill			D	ATE	Decembe	er 10, 202	20			17	
SOIL DESCRIPTION	PLOT			IPLE 거	M .	DEPTH (m)	ELEV. (m)			Blows/0. Dia. Cone		Piezometer Construction
	STRATA	ТҮРЕ	NUMBER	° ≈ © © ©	N VALUE or RQD			• v	/ater C	ontent %	6	Piezom
GROUND SURFACE	S		Z	RE	z °	0	102.00	20	40	60 E	30	
TOPSOIL 0.33		G	1			0-	-103.90		0			
Brown SILTY SAND, trace gravel		G	2									
1.37						1-	-102.90		0			¥
GLACIAL TILL: Brown silty sand, with gravel cobbles and boulders		G	3									
End of Test Pit												
TP terminated on inferred bedrock surface at 1.78m depth												
(Groundwater infiltration at 1.37m - Dec 10, 2020)												
								20 Shea ▲ Undist		60 € agth (kPa ∆ Remou		00

SOIL PROFILE AND TEST DATA

Geotechnical Investigation 6070 and 6115 Flewellyn Road Ottawa, Ontario

154 Colonnade Road South, Ottawa, Ontario K2E 7J5

FILE NO.

DATUM Geodetic									FILE	NO. PG557	0
REMARKS BORINGS BY CME-55 Low Clearanc	o Drill			~	ATE	Decombo	er 10, 202	20	HOLE	^{E NO.} TP 18	
BORINGS BY CIVIE-55 LOW Clearance			SVI	/PLE			10, 202			Blows/0.3m	
SOIL DESCRIPTION	PLOT			1		DEPTH (m)	ELEV. (m)			Dia. Cone	Piezometer Construction
	STRATA	ТҮРЕ	NUMBER	~ RECOVERY	N VALUE or RQD			• v	Vater (Content %	iezom onstru
GROUND SURFACE	LS	F	ŊŊ	REC	N O	0-	-103.42	20	40	60 80	
TOPSOIL	30	G	1								
<u>.</u> .		G	2						O		
Brown SILTY SAND, some gravel									0		
		G	3			1-	-102.42				
<u>1</u> .:	32										
End of Test Pit											
TP terminated on inferred bedrock surface at 1.32m depth											
(TP dry upon completion)											
								20 Shea	40 ar Stre	60 80 ength (kPa)	100
								▲ Undis	turbed	△ Remoulded	

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	<12	<2		
Soft	12-25	2-4		
Firm	25-50	4-8		
Stiff	50-100	8-15		
Very Stiff	100-200	15-30		
Hard	>200	>30		

SYMBOLS AND TERMS (continued)

SOIL DESCRIPTION (continued)

Cohesive soils can also be classified according to their "sensitivity". The sensitivity, St, 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:

Low Sensitivity:	St < 2
Medium Sensitivity:	2 < St < 4
Sensitive:	$4 < S_t < 8$
Extra Sensitive:	8 < St < 16
Quick Clay:	St > 16

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 0-25	Poor, shattered and very seamy or blocky, severely fractured 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
Сс	-	Concavity coefficient = $(D30)^2 / (D10 \times D60)$
Cu	-	Uniformity coefficient = D60 / D10
0	•	and the second discuss the second

Cc and Cu are used to assess the grading of sands and gravels: Well-graded gravels have: 1 < Cc < 3 and Cu > 4Well-graded sands have: 1 < Cc < 3 and Cu > 6Sands 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)
Сс	-	Compression index (in effect at pressures above p'c)
OC Ratio)	Overconsolidaton ratio = p'c / p'o
Void Rati	io	Initial sample void ratio = volume of voids / volume of solids
Wo	-	Initial water content (at start of consolidation test)

PERMEABILITY TEST

k - 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.

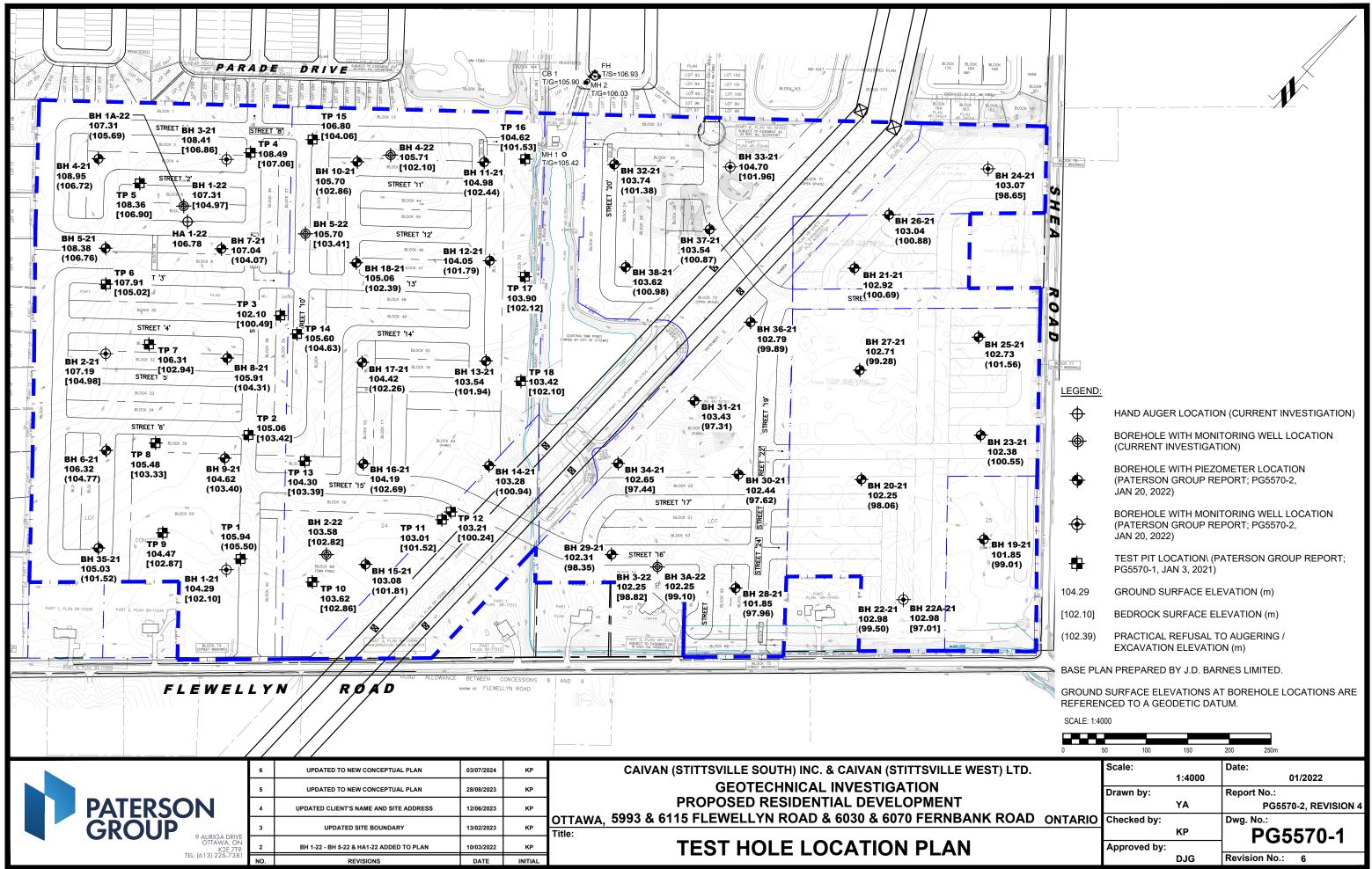
SYMBOLS AND TERMS (continued) STRATA PLOT Topsoil Asphalt Peat Sand Silty Sand Fill Δ Sandy Silt Clay Silty Clay Clayey Silty Sand Glacial Till Shale Bedrock

MONITORING WELL AND PIEZOMETER CONSTRUCTION

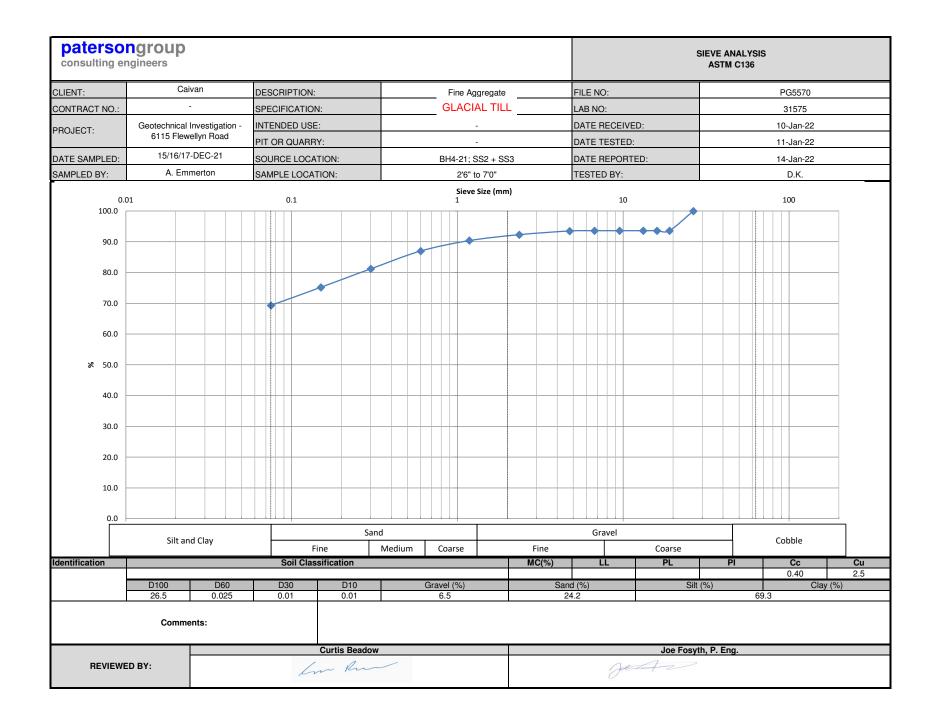




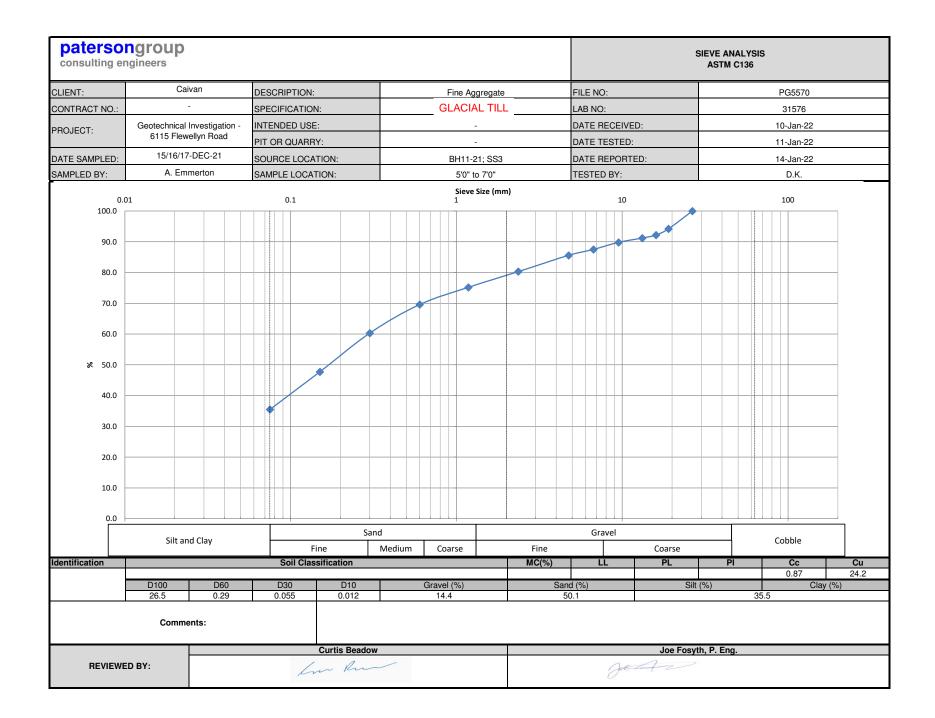




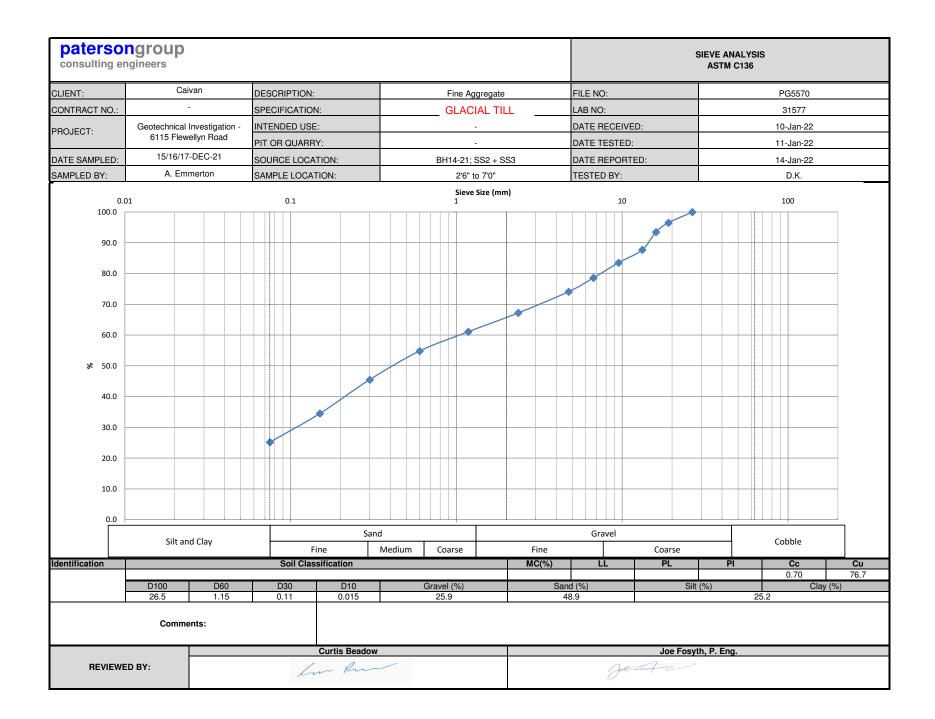
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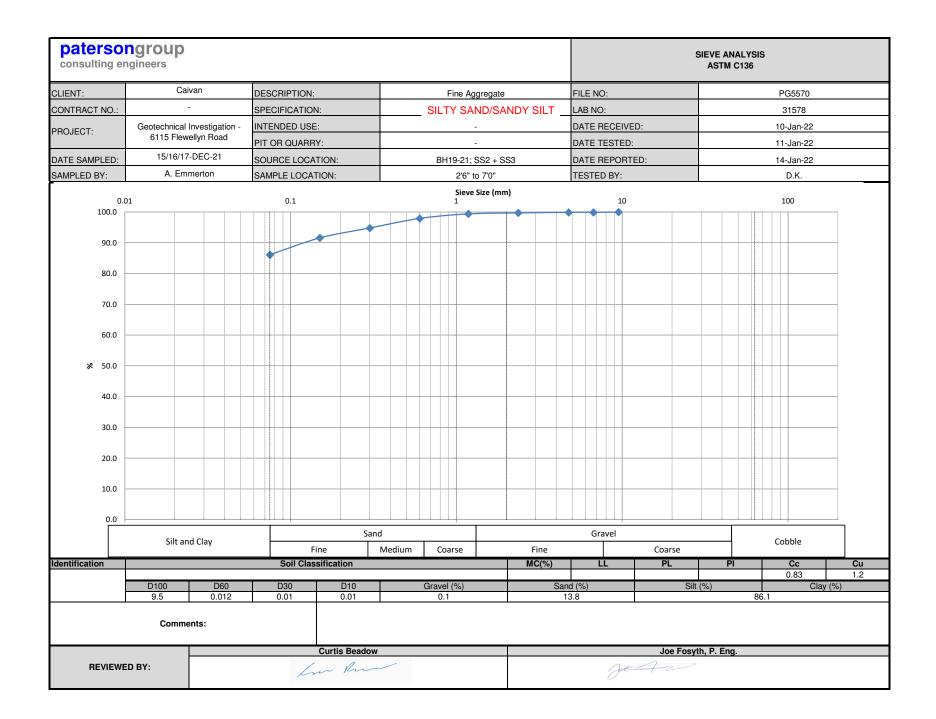
patersor consulting en				SIEVE ANALYSIS ASTM C136			
CLIENT:	Cai	van	DESCRIPTION:	N: Fine Aggregate		FILE NO.:	PG5570
CONTRACT NO.:		-	SPECIFICATION:	Silty	Clay	LAB NO.:	31575
PROJECT:			INTENDED USE:		-	DATE REC'D:	10-Jan-22
Flewellyn Road			PIT OR QUARRY:		-	DATE TESTED:	11-Jan-22
DATE SAMPLED:	15/16/17	-DEC-21	SOURCE LOCATIO	ON: BH4-2	1; SS2 + SS3	DATE REP'D:	14-Jan-22
SAMPLED BY:	A. Emi	merton	SAMPLE LOCATIO	DN:	2'6" to 7'0"	TESTED BY:	D.K.
WEIGHT BEFORE	WASH					275.9	
WEIGHT AFTER W	/ASH					93.5	
SIEVE SIZE (mm)	WEIGHT RETAINED	PERCENT RETAINED	PERCENT PASSING	LOWER SPEC	UPPER SPEC	REM	ARK
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.		REFERENCI	EMATERIAL
OTHER TESTS					RESULT	LAB NO.	RESULT
		Curtis Beadow			Joe Fo	orsyth, P. Eng.	
REVIEWED BY:	In	, hn	Jett				



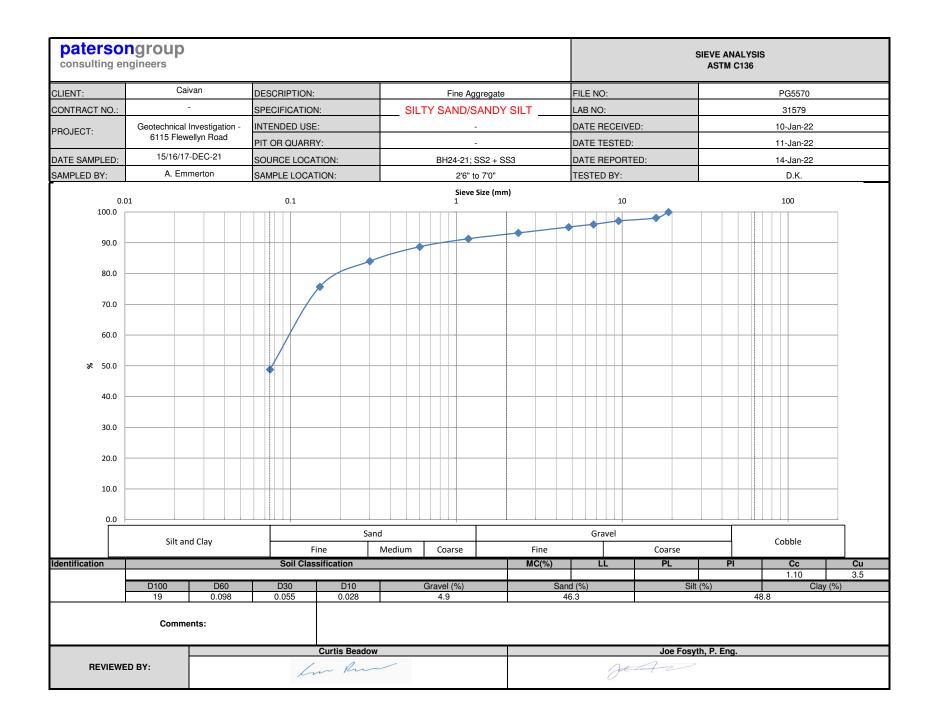
patersongroup consulting engineers					SIEVE ANALYSIS ASTM C136		
CLIENT:	Cai	van	DESCRIPTION:	Fine Ag	gregate	FILE NO.:	PG5570
CONTRACT NO.:		-	SPECIFICATION:	Silty	Clay	LAB NO.:	31576
PROJECT:			INTENDED USE:		-	DATE REC'D:	10-Jan-22
	Flewelly	/n Road	PIT OR QUARRY:		-	DATE TESTED:	11-Jan-22
DATE SAMPLED:	15/16/17	-DEC-21	SOURCE LOCATI	ON: E	8H11-21; SS3	DATE REP'D:	14-Jan-22
SAMPLED BY:	A. Em	merton	SAMPLE LOCATIO	ON:	5'0" to 7'0"	TESTED BY:	D.K.
WEIGHT BEFORE	WASH					503.6	
WEIGHT AFTER V	VASH					339.5	
SIEVE SIZE (mm)	WEIGHT RETAINED	PERCENT RETAINED	PERCENT PASSING	LOWER SPEC	UPPER SPEC	REM	ARK
150							
106							
75							
63							
53							
37.5							
26.5	0.0	0.0	100.0				
19	29.1	5.8	94.2				
16	39.2	7.8	92.2				
13.2	44.3	8.8	91.2				
9.5	51.6	10.2	89.8				
6.7	63.0	12.5	87.5				
4.75	72.5	14.4	85.6				
2.36	99.3	19.7	80.3				
1.18	125.1	24.8	75.2				
0.6	153.1	30.4	69.6				
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 FINE 0.06		C	0.3% max.		REFERENCE		
OTHER TESTS					RESULT	LAB NO.	RESULT
		Curtis Beadov	N			revth D Eng	
REVIEWED BY:	Im	h h		Joe Forsyth, P. Eng.			



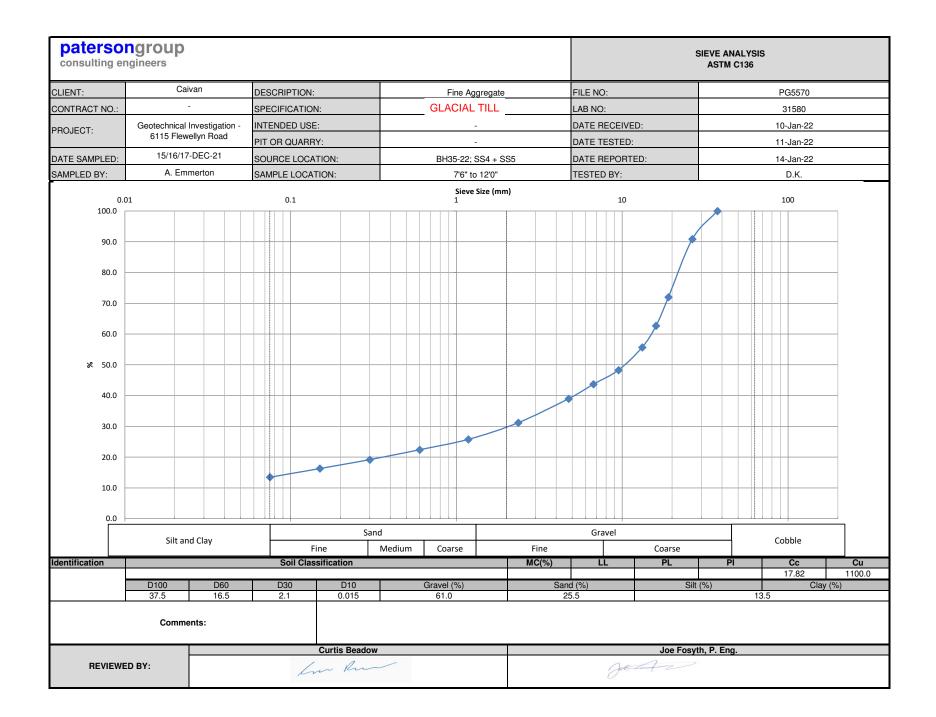
patersor consulting en						SIEVE AI ASTM	
CLIENT:	Cai	van	DESCRIPTION:	Fine Ag	gregate	FILE NO.:	PG5570
CONTRACT NO.:		-	SPECIFICATION:	Silty	Clay	LAB NO.:	31577
PROJECT:			INTENDED USE:		-	DATE REC'D:	10-Jan-22
THOSECT.	FROJECT. Flewellyn Road				-	DATE TESTED:	11-Jan-22
DATE SAMPLED:	15/16/17	-DEC-21	SOURCE LOCATI	ON: BH14-2	1; SS2 + SS3	DATE REP'D:	14-Jan-22
SAMPLED BY:	A. Emi	merton	SAMPLE LOCATIO	ON:	2'6" to 7'0"	TESTED BY:	D.K.
WEIGHT BEFORE	WASH					553.4	
WEIGHT AFTER W	/ASH					428.6	
SIEVE SIZE (mm)	WEIGHT RETAINED	PERCENT RETAINED	PERCENT PASSING	LOWER SPEC	UPPER SPEC	REM	ARK
150							
106							
75							
63							
53							
37.5							
26.5	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				
2.36	181.6	32.8	67.2				
1.18	215.4	38.9	61.1				
0.6	250.3	45.2	54.8				
0.3	301.8	54.5	45.5				
0.15	362.7	65.5	34.5				
0.075	414.2	74.8	25.2				
PAN	428.2						
SIEVE CHECK FIN	E	0.09	0	.3% max.		REFERENCI	E MATERIAL
OTHER TESTS				RESULT	LAB NO.	RESULT	
		Curtis Beadow				orsyth, P. Eng.	
REVIEWED BY:	In	, hn		Jett			



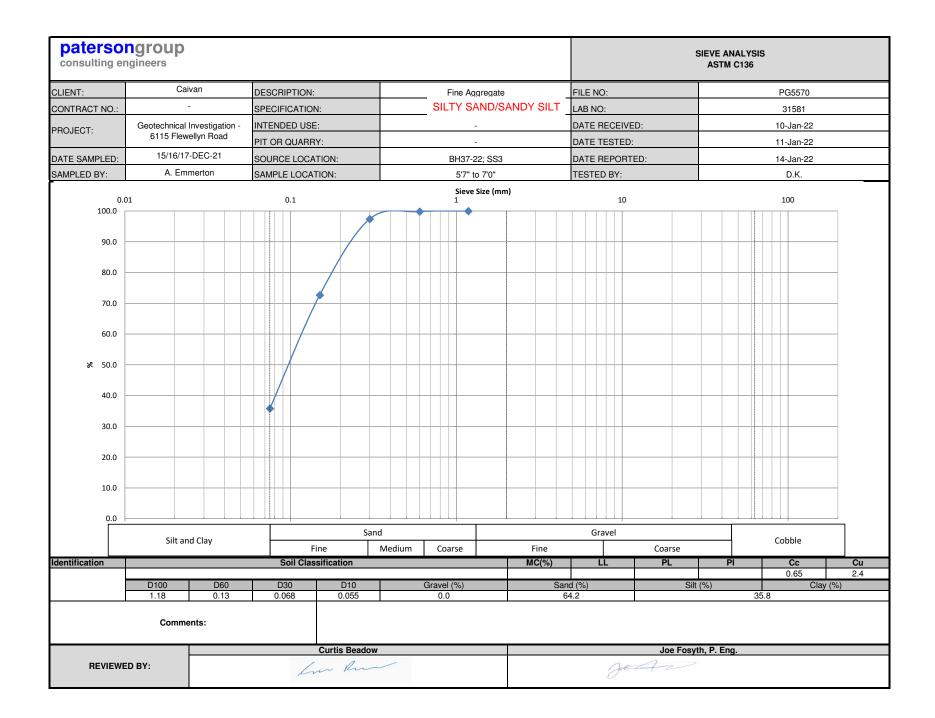
patersongroup consulting engineers						SIEVE AI ASTM	
CLIENT:	Cai	van	DESCRIPTION:	Fine Ag	gregate	FILE NO.:	PG5570
CONTRACT NO.:		-	SPECIFICATION:	Silty	Clay	LAB NO.:	31578
PROJECT:			INTENDED USE:		-	DATE REC'D:	10-Jan-22
	Flewelly	n Road	PIT OR QUARRY:		-	DATE TESTED:	11-Jan-22
DATE SAMPLED:	15/16/17	-DEC-21	SOURCE LOCATIO	DN: BH19-2	1; SS2 + SS3	DATE REP'D:	14-Jan-22
SAMPLED BY:	A. Emi	merton	SAMPLE LOCATIO	N:	2'6" to 7'0"	TESTED BY:	D.K.
WEIGHT BEFORE	WASH					397.5	
WEIGHT AFTER W	/ASH					69.5	
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	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	0	.3% max.		REFERENCE	
OTHER TESTS				RESULT	LAB NO.	RESULT	
		Curtis Beadow				orsyth, P. Eng.	
REVIEWED BY:	In	, hn		Jente			



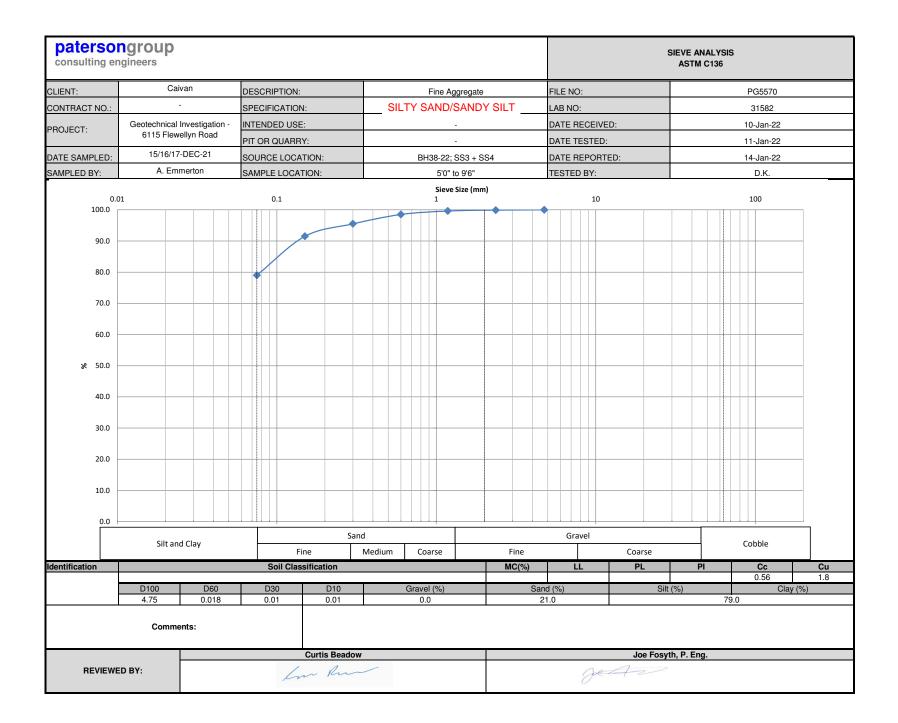
patersor consulting en						SIEVE AI ASTM	
CLIENT:	Cai	van	DESCRIPTION:	Fine Ag	gregate	FILE NO.:	PG5570
CONTRACT NO.:		-	SPECIFICATION:	Silty	Clay	LAB NO.:	31579
PROJECT:			INTENDED USE:		-	DATE REC'D:	10-Jan-22
	Flewelly	n Road	PIT OR QUARRY:		-	DATE TESTED:	11-Jan-22
DATE SAMPLED:	15/16/17	-DEC-21	SOURCE LOCATIO	DN: BH24-2	1; SS2 + SS3	DATE REP'D:	14-Jan-22
SAMPLED BY:	A. Emi	merton	SAMPLE LOCATIO	N:	2'6" to 7'0"	TESTED BY:	D.K.
WEIGHT BEFORE	WASH					421.6	
WEIGHT AFTER W	/ASH					278.2	
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	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	E	0.00	0	.3% max.		REFERENCE	
OTHER TESTS				RESULT	LAB NO.	RESULT	
		Curtis Beadow				orsyth, P. Eng.	
REVIEWED BY:	In	, hn		Jente			



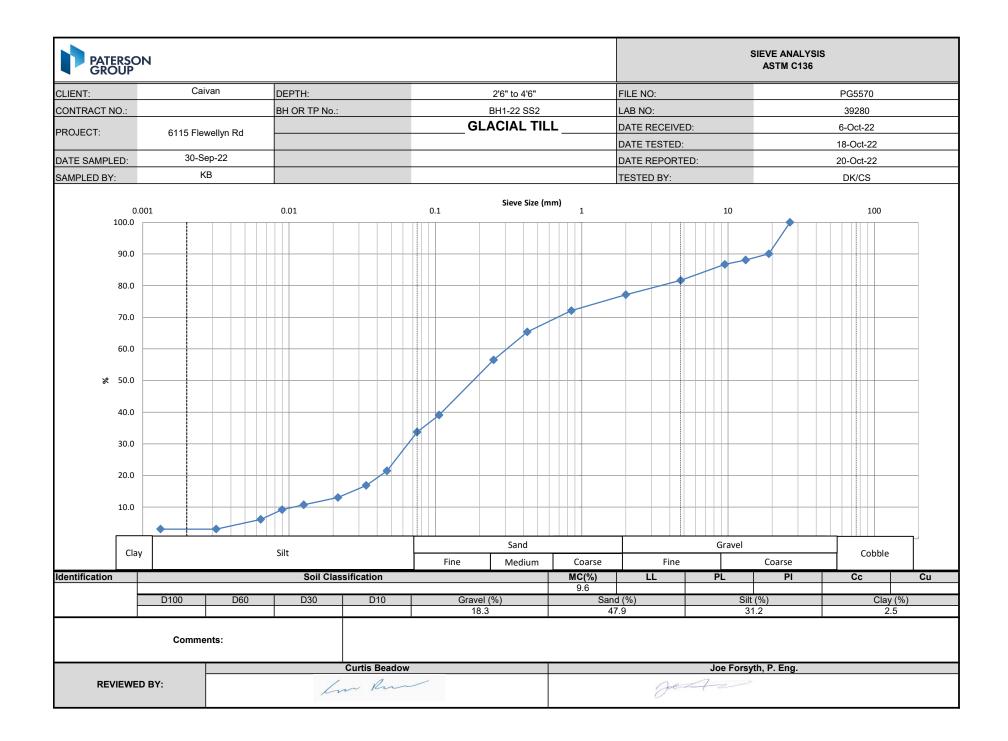
patersor consulting en	ngroup gineers					SIEVE AN ASTM	
CLIENT:	Cai	van	DESCRIPTION:	Fine Ag	gregate	FILE NO.:	PG5570
CONTRACT NO.:		-	SPECIFICATION:	Silty	Clay	LAB NO.:	31580
PROJECT:			INTENDED USE:		-	DATE REC'D:	10-Jan-22
	Flewelly	/n Road	PIT OR QUARRY: -		DATE TESTED:	11-Jan-22	
DATE SAMPLED:	15/16/17	-DEC-21	SOURCE LOCATI	ON: BH35-2	2; SS4 + SS5	DATE REP'D:	14-Jan-22
SAMPLED BY:	A. Em	merton	SAMPLE LOCATIO	DN:	7'6" to 12'0"	TESTED BY:	D.K.
WEIGHT BEFORE	WASH					470.5	
WEIGHT AFTER W	VASH					411.0	
SIEVE SIZE (mm)	WEIGHT RETAINED	PERCENT RETAINED	PERCENT PASSING	LOWER SPEC	UPPER SPEC	REM	ARK
150							
106							
75							
63							
53							
37.5	0.0	0.0	100.0				
26.5	42.6	9.1	90.9				
19	131.9	28.0	72.0				
16	175.4	37.3	62.7				
13.2	208.2	44.3	55.7				
9.5	243.2	51.7	48.3				
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				
PAN	410.9						
SIEVE CHECK FIN	IE	0.02	0	.3% max.		REFERENCE	
OTHER TESTS					RESULT	LAB NO.	RESULT
		Curtis Beadow	v		Joe Fo	rsyth, P. Eng.	
REVIEWED BY:	In	, Ru				1-2	



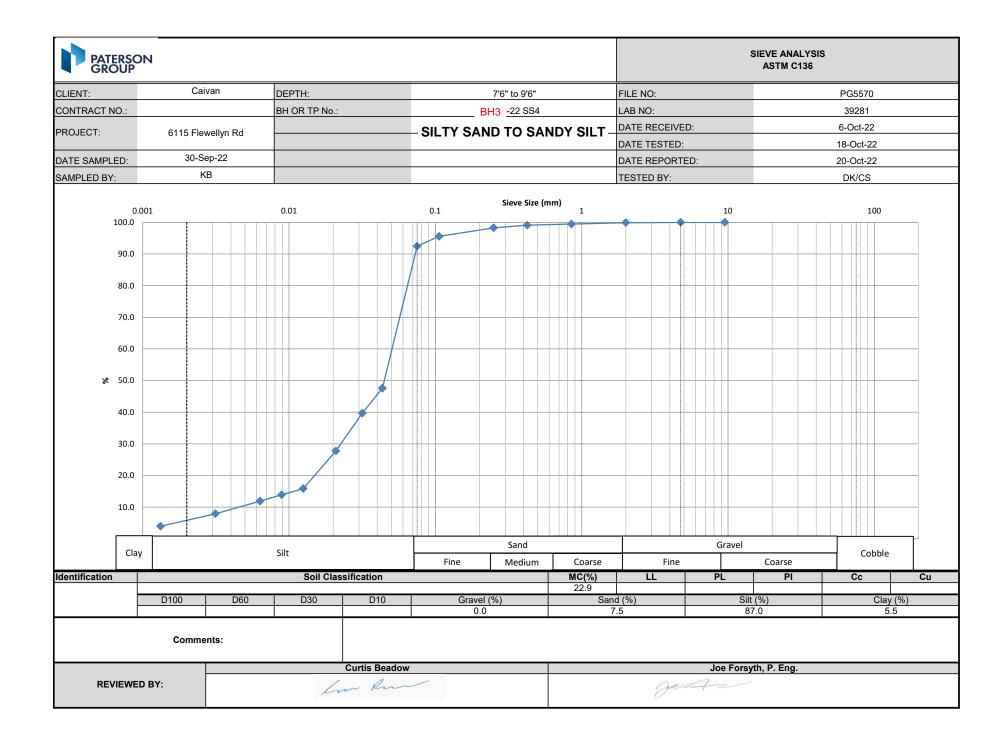
patersor consulting en						SIEVE AN ASTM		
CLIENT:	Cai	van	DESCRIPTION:	Fine Ag	gregate	FILE NO.:	PG5570	
CONTRACT NO.:		-	SPECIFICATION:	Silty	Clay	LAB NO.:	31581	
PROJECT:			INTENDED USE:		-	DATE REC'D:	10-Jan-22	
	Flewelly	n Road	PIT OR QUARRY:		-	DATE TESTED:	11-Jan-22	
DATE SAMPLED:	15/16/17	-DEC-21	SOURCE LOCATIO	ON: E	H37-22; SS3	DATE REP'D:	14-Jan-22	
SAMPLED BY:	A. Emi	merton	SAMPLE LOCATIO	ON: 5'7" to 7'0" TESTED BY: D.K.			D.K.	
WEIGHT BEFORE	WASH					354.8		
WEIGHT AFTER W	/ASH					256.6		
SIEVE SIZE (mm)	WEIGHT RETAINED				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	E	0	.3% max.		REFERENCE	MATERIAL		
OTHER TESTS					RESULT	LAB NO.	RESULT	
		Curtis Beadow			Joe Fo	rsyth, P. Eng.		
REVIEWED BY:	Im	, kn			Jet	12		



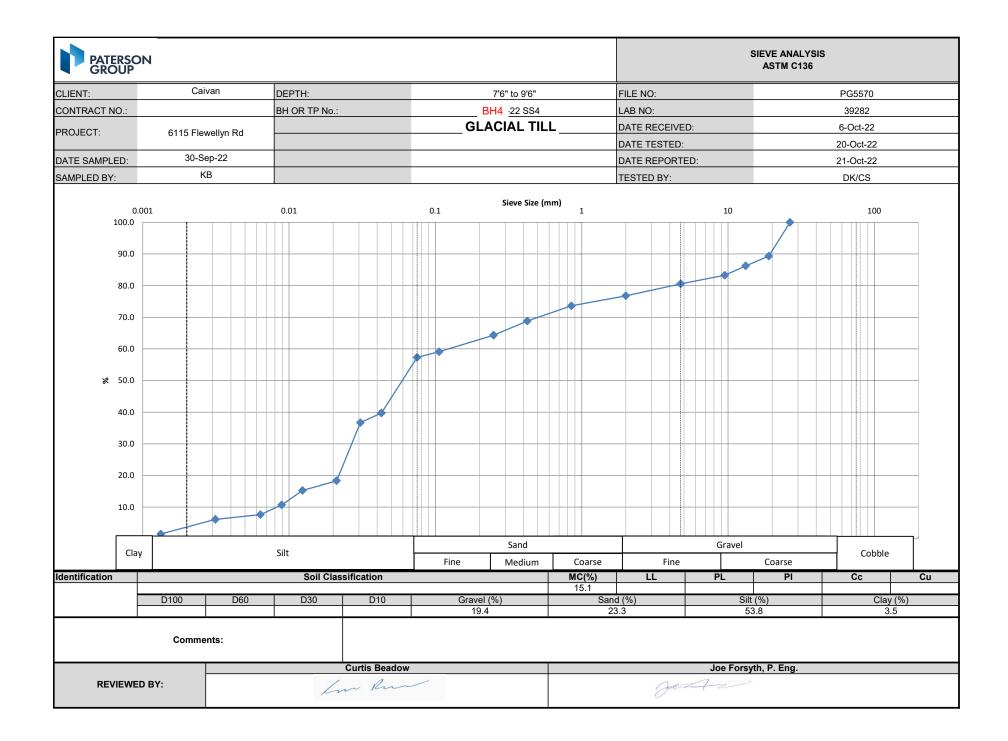
consulting eng						SIEVE AN ASTM	
CLIENT:	Cai	van	DESCRIPTION:	Fine Ag	gregate	FILE NO.:	PG5570
CONTRACT NO.:		-	SPECIFICATION:	Silty	Clay	LAB NO.:	31582
PROJECT:			INTENDED USE:		-	DATE REC'D:	10-Jan-22
	Flewelly	n Road	PIT OR QUARRY:		-	DATE TESTED:	11-Jan-22
DATE SAMPLED:	15/16/17	-DEC-21	SOURCE LOCATION: BH38-22; SS3 + SS4		DATE REP'D:	14-Jan-22	
SAMPLED BY:	A. Em	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)				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	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 FINE 0.11				.3% max.		REFERENCE	
OTHER TESTS					RESULT	LAB NO.	RESULT
		Curtis Beadov				orsyth, P. Eng.	
REVIEWED BY:	Im	, Ru			Jet	12	



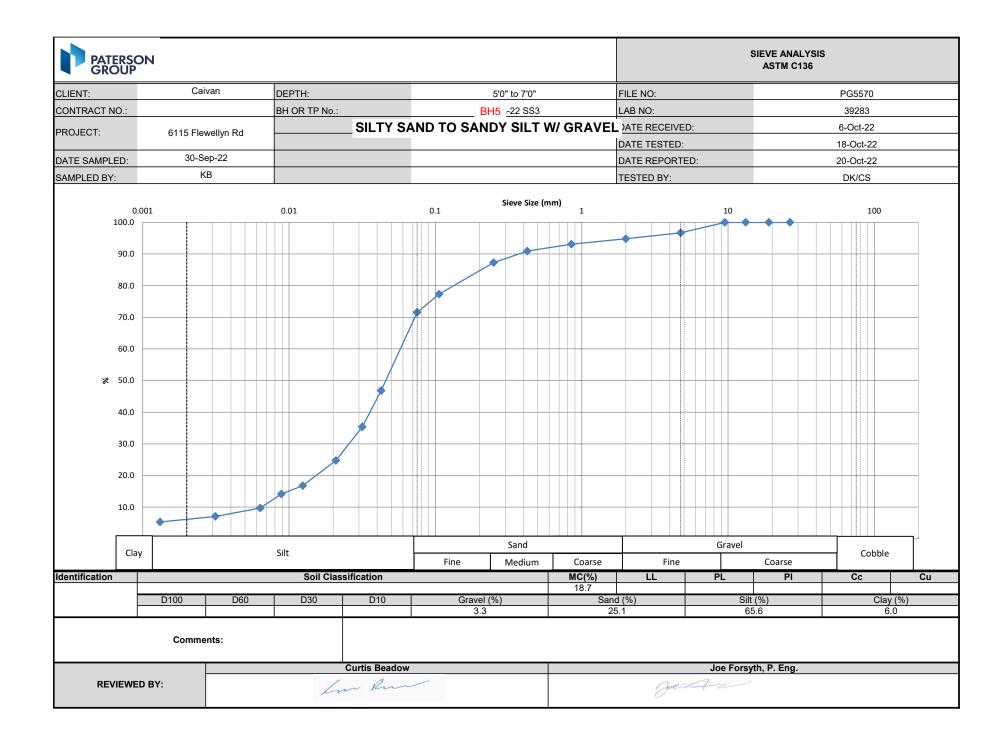
PATERSON GROUP							HYDROMETER LS-702 ASTM-422	
CLIENT:		Caivan		DEPTH:	2'6" to	o 4'6"	FILE NO.:	PG5570
PROJECT:	6	5115 Flewellyn I	Rd	BH OR TP No.:	BH1-2	2 SS2	DATE SAMPLEI	30-Sep-22
AB No. :		39280		TESTED BY:	DK/	/CS	DATE RECEIVE	6-Oct-22
SAMPLED BY:		KB		DATE REPT'D:	20-0		DATE TESTED:	18-Oct-22
			SAM				•	
	SAMPLI	E MASS				PECIFIC GRAV	ТҮ	
	525	5.7			2.700			
NITIAL WEIGH	т	50.00		HYGROSCOPIC				
VEIGHT CORF		49.72	TARE WEIGHT	TARE WEIGHT		.00	ACTUAL V	/EIGHT
	ASH BACK SIEVE		AIR DRY			3.40	478.	
		40 g/L	OVEN DRY		525		475.	
2_01101100		10 g/L	CORRECTED		020		994	-
			•	AIN SIZE ANALY	SIS	0		
SIE	VE DIAMETER (n	nm)		ETAINED (g)	PERCENT	RETAINED	PERCENT	PASSING
	26.5			0	0.0		100	.0
	19		52	2.1	9.9		90.	1
	13.2		62	2.5	11.9		88.1	
	9.5		69	9.8	13.3		86.7	
	4.75		90	6.3	18.3		81.7	
	2.0		12	0.1	22.8		77.2	
	Pan		40	4.8				
	0.850		3.	.27	27	.9	72.	1
	0.425		7.	.64	34	.6	65.4	
	0.250		13	.36	43	5.5	56.5	
	0.106		24	.66	60	.9	39.1	
	0.075		28	.13	66	5.3	33.	7
	Pan		28	.95				
SIEVE	CHECK	0.0	MAX	= 0.3%				
			н	DROMETER 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.	
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.	
<u> </u>	6:30 7:00	12.0	6.0	23.0	0.0090	11.9	9.2	
250	7:00 10:10	<u> </u>	6.0	23.0 23.0	0.0064	7.9	3.1	
1440	6:00	8.0	6.0	23.0	0.0032	4.0	3.1	
Moisture = 9								
REVIEW	NED BY:		C. Beadow	/			yth, P. Eng.	



PA' GR	TERSON OUP						HYDROMETER LS-702 ASTM-422	
LIENT:		Caivan		DEPTH:	7'6" to	o 9'6"	FILE NO.: PG5570	
PROJECT:	6	115 Flewellyn F	₹d	BH OR TP No.:	BH4-2	2 SS4	DATE SAMPLEI 30-Sep-2	
AB No. :		39281		TESTED BY:	DK/	ICS	DATE RECEIVE 6-Oct-22	
SAMPLED BY:		KB		DATE REPT'D:	20-0		DATE TESTED: 18-Oct-22	
		ILD.	SAI			01-22	DATE TEOTED. 10-000-22	
	SAMPLE	MASS			SF	PECIFIC GRAV	ΊΤΥ	
	130).5			2.700			
NITIAL WEIGH	Т	50.00	HYGROSCOPIC MOISTURE		-			
VEIGHT CORF	RECTED	49.75	TARE WEIGHT 50.00		ACTUAL WEIGHT			
VT. AFTER WA	ASH BACK SIEVE	3.95	AIR DRY		130	.90	80.90	
SOLUTION CO	NCENTRATION	40 g/L	OVEN DRY		130	.50	80.50	
			CORRECTED			0	.995	
			GR	AIN SIZE ANALY	'SIS		1	
SIE	VE DIAMETER (n	nm)	WEIGHT RI	ETAINED (g)	PERCENT	RETAINED	PERCENT PASSING	
	26.5							
	19							
	13.2							
	9.5		0	0.0	0.0		100.0	
	4.75		0	0.0	0.0		100.0	
	2.0		0).1	0.	1	99.9	
	Pan		13	0.4				
	0.850			.22	0.	5	99.5	
	0.425			.39	0.	9	99.1	
	0.250			.80	1.	7	98.3	
	0.106			.17	4.	4	95.6	
	0.075			.71	7.	5	92.5	
	Pan		3.	.95				
SIEVE	CHECK	0.0	MAX	= 0.3%				
ELAPSED	TIME	Hs	H' Hc		TA DIAMETER	(D)	TOTAL PERCENT PASSIN	
	(24 hours)			Temp. (°C)	DIAWETER	(P)		
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 15	6:25 6:35	20.0	6.0 6.0	23.0 23.0	0.0209	27.8 15.9	27.8 15.9	
30	6:50	14.0	6.0	23.0	0.0125	13.9	13.9	
60	7:20	12.0	6.0	23.0	0.0063	11.9	11.9	
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			
loisture = 2	22.91%							
			C. Beadow			Joe Fors	yth, P. Eng.	
REVIEW	VED BY:	L	m hu	/	Joe Forsyth, P. Eng.			



PA GR	TERSON OUP						HYDROMETER LS-702 ASTM-422		
CLIENT:		Caivan		DEPTH:	7'6" t	o 9'6"	FILE NO.:	PG5570	
PROJECT:	6	115 Flewellyn	Rd	BH OR TP No.:	BH5-2	2 SS4	DATE SAMPLEI	30-Sep-22	
AB 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				
	SAMPLE	EMASS			SI	PECIFIC GRAV	/ITY		
	563	3.6				2.700			
NITIAL WEIGH	т	50.00			HYGROSCOP	IC MOISTURE			
WEIGHT CORR	RECTED	49.61	TARE WEIGHT		50.00		ACTUAL	NEIGHT	
	ASH BACK SIEVE	12.87	AIR DRY			.60	517.		
	NCENTRATION	40 g/L	OVEN DRY		563	3.60	513.		
			CORRECTED).992		
			•	AIN SIZE ANALY	'SIS				
SIE	VE DIAMETER (n	nm)		ETAINED (g)	PERCENT	RETAINED	PERCENT	PASSING	
	26.5			0	0	.0	100	.0	
	19		6	0.1	10.7		89.3		
	13.2		7	7.4	13.7		86.3		
	9.5		9	4.2	16.7		83.3		
	4.75		10)9.4	19.4		80.6		
	2.0		13	30.8	23.2		76.8		
	Pan		43	32.8					
	0.850		2	.05	26	6.4	73.	73.6	
	0.425		5	.20	31	.2	68.8		
	0.250		8	.09	35	5.6	64.4		
	0.106		11	.50	40).9	59.1		
	0.075		12	2.67	40.9		57.3		
	Pan		12	2.87					
SIEVE	CHECK	0.0	MAX	= 0.3%					
			•	YDROMETER DA	ТА		-		
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.		
2	6:26	30.0	6.0	23.0	0.0307	47.8	36.		
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.		
<u> </u>	6:54 7:24	<u>13.0</u> 11.0	6.0	23.0 23.0	0.0089	13.9 10.0	7.0		
250	10:34	11.0	6.0	23.0	0.0084	8.0	6.		
1440	6:24	7.0	6.0	23.0	0.0031 8.0		1.		
Moisture = 1	15.10%		C. Beadow			loo Fors	with D Eng		
REVIEV	VED BY:	L	C. Beadow	~			syth, P. Eng.		



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 | FILE NO.: | PG5570
30-Sep-22 | | | | | |

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| | AMPLE | 6115 Flewellyn
39283
KB
AMPLE MASS | 6115 Flewellyn Rd | 6115 Flewellyn Rd BH OR TP No.:
39283 TESTED BY:
KB DATE REPT'D:
SAMPLE INFORMA
AMPLE MASS
131.1 | 6115 Flewellyn Rd BH OR TP No.: BH6-2 39283 TESTED BY: DK KB DATE REPT'D: 20-0 SAMPLE INFORMATION AMPLE MASS 131.1

 | 39283 TESTED BY: DK/CS KB DATE REPT'D: 20-Oct-22 SAMPLE INFORMATION AMPLE MASS SPECIFIC GRAV 131.1 2.700 | 39283 TESTED BY: DK/CS DATE RECEIVE KB DATE REPT'D: 20-Oct-22 DATE TESTED: SAMPLE INFORMATION AMPLE MASS SPECIFIC GRAVITY 131.1 2.700 | | | | | |

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Client PO: 31285

Certificate of Analysis Client: Paterson Group Consulting Engineers

Report Date: 27-Nov-2020

Order Date: 20-Nov-2020

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		•			
рН	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	-	_	-



Client PO: 31363

Certificate of Analysis Client: Paterson Group Consulting Engineers

Order #: 2051099

Report Date: 17-Dec-2020

Order Date: 14-Dec-2020

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	-	-	-



Certificate of Analysis Client: Paterson Group Consulting Engineers Client PO: 33505

Order #: 2151599

Report Date: 22-Dec-2021

Order Date: 17-Dec-2021

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	_	-	-



Client PO: 33585

Certificate of Analysis Client: Paterson Group Consulting Engineers

Report Date: 04-Jan-2022

Order Date: 23-Dec-2021

Project Description: PG5570

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



APPENDIX 3

PH4625-1 - SURFICIAL GEOLOGY PLAN

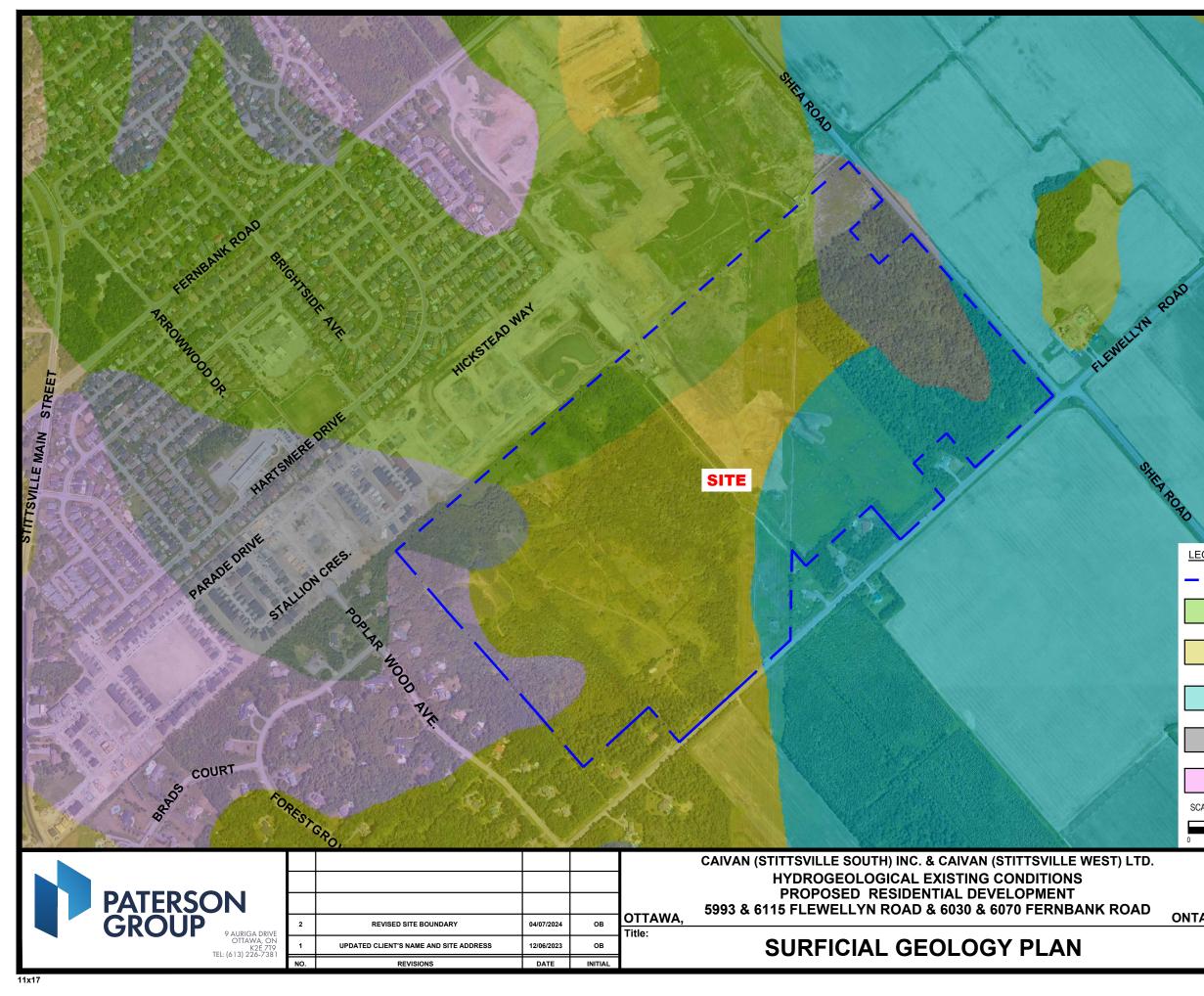
PH4625-2 - DRIFT THICKNESS PLAN

PH4625-3 - BEDROCK GEOLOGY PLAN

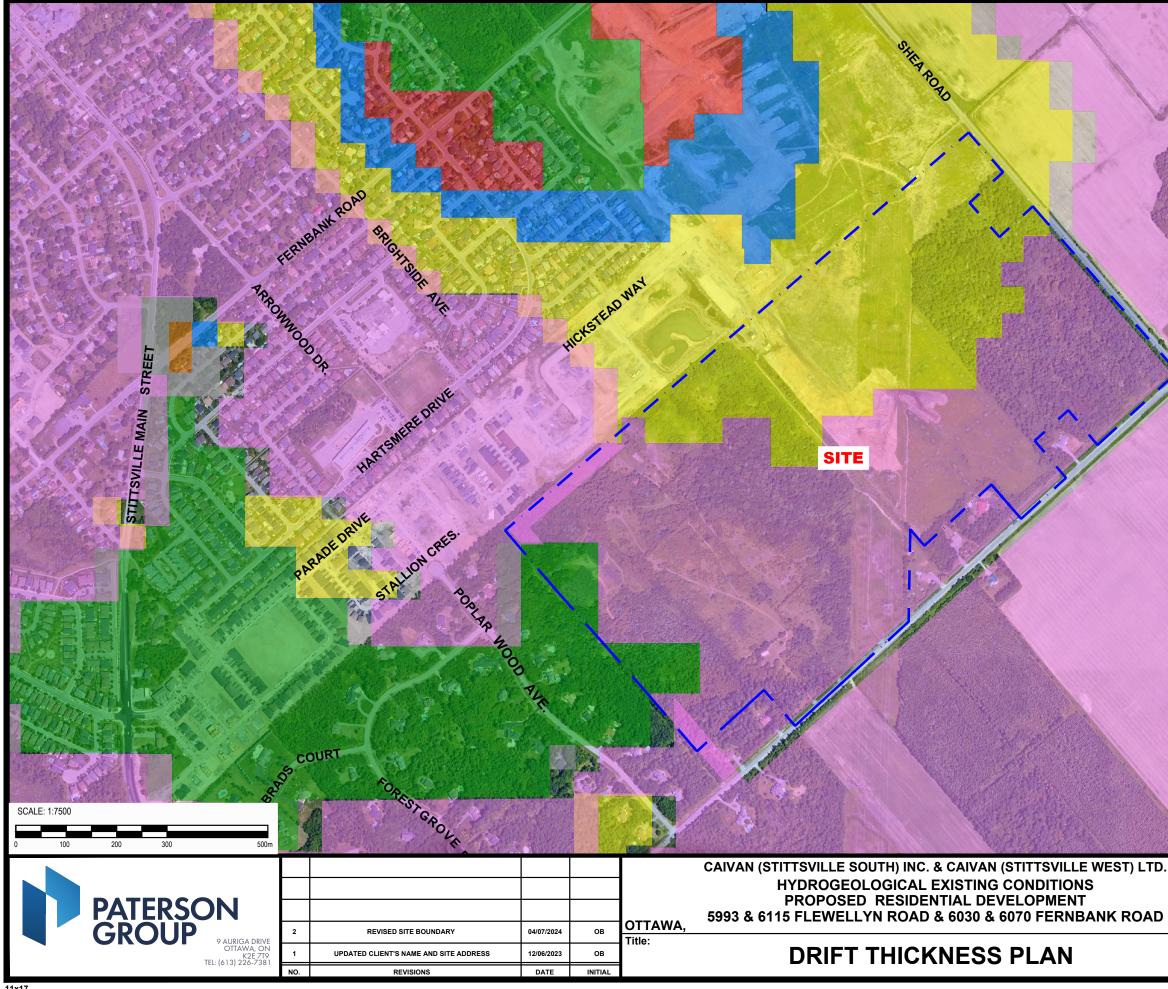
PH4625-4 - MECP WATER WELL LOCATION PLAN

PH4625-5 - GROUNDWATER CONTOUR PLAN

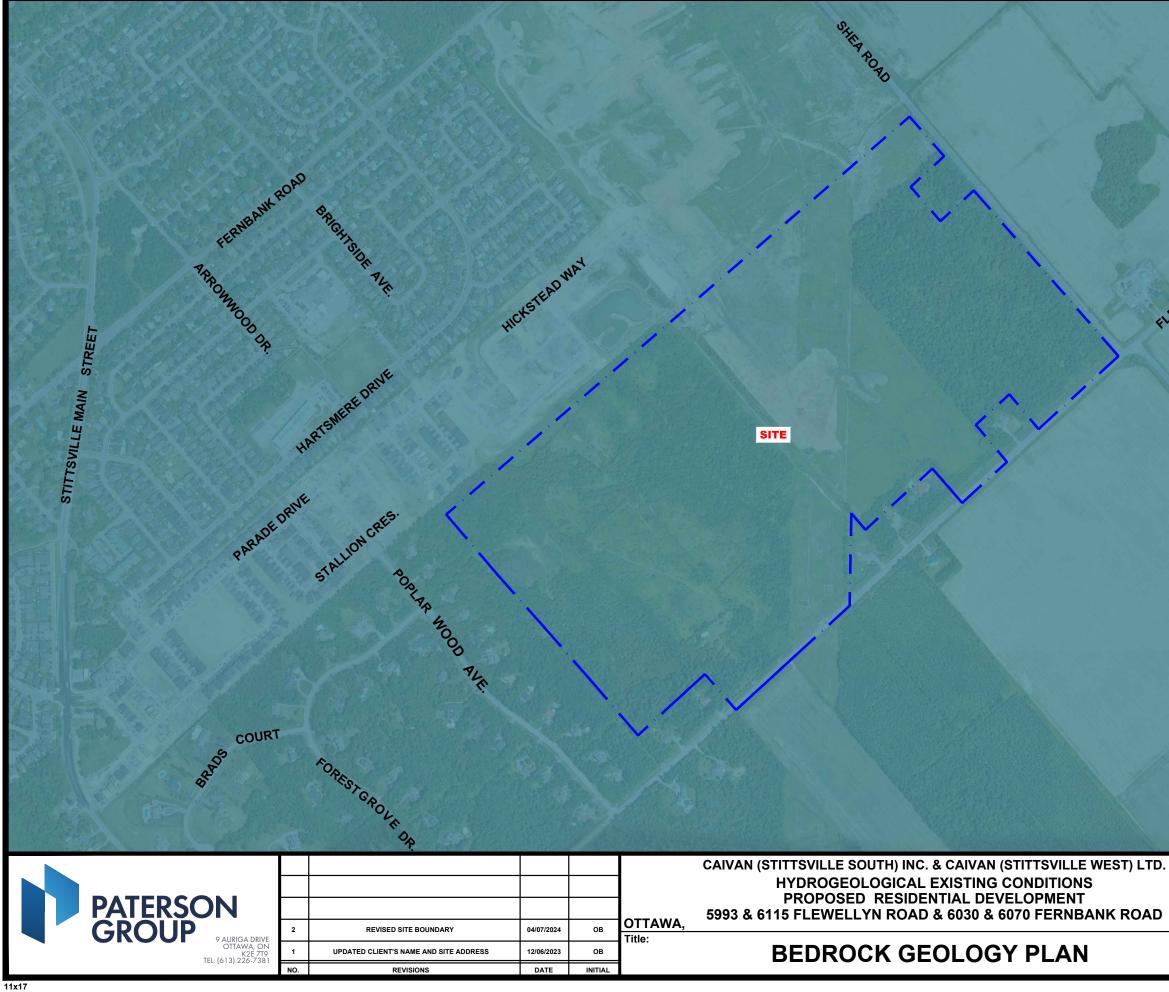
PG5570-2.- BEDROCK CONTOUR PLAN



	11								
	LEGEND:								
	<u> </u>	SITE BO	DUNDARY						
				R, SANDY SILT	TO SILTY DZOIC TERRAIN.				
		SAND,	COARSE-TEXTURED GLACIOMARINE DEPOSITS: SAND, GRAVEL, MINOR SILT AND CLAY, FORSHORE & BASINAL DEPOSITS						
		FINE-TEXTURED GLACIOMARINE DEPOSITS: SILT AND CLAY, MINOR SAND AND GRAVEL, MASSIVE TO WELL LAMINATED.							
R		ORGAN	IIC DEPOSIT	S INCL. PEAT	& MUCK.				
		PALEO	ZOIC BEDRO	ОСК					
	SCALE: 1:750	00							
	0 10	00 200	300	500	m				
		Scale:	1:7500	Date:	10/2022				
		Drawn by:	1.7500	Report No.:	10/2022				
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		Approved by:	UB	PH4	4625-1				
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FLEW	LLTN ROAD			
		AHEA ROAD	LEGEND	
				SITE BOUNDARY 0m - 1m 1m - 2m 2m - 3m 3m - 5m 5m - 10m 10m - 15m 15m - 25m
	Scale:	1:7500	Date:	10/2022
	Drawn by:	JM	Report No.:	
	Checked by:		Dwg. No.:	
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ONTARIO	Approved by:	ОВ	PH Revision No	4625-2



FLE	MELINA ROAD		CA ROAD		ER FORMATIONE Junio 10/2022 PH4625-REP.01 6225-3
		SIMCO			ER FORMATION: E, SANDSTONE.
).	0	100 Scale:		00 Date:	500m
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		Approved by:	ОВ		625-3
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				000
			0	00
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LEGEND: - SITE BOUNDARY Image: Comparison of the second		2000		
SCALE: 1:12500 0 50 100 150 200 250 500 750m PATERSSON PARTERSSON PAURIGA DRIVE OTTAWA, ON K22 719 TEL: (613) 226-7381	2 REVISED SITE BOUNDARY 1 UPDATED CLIENT'S NAME AND SITE ADDRESS NO. REVISIONS	O4/07/2024 OB 12/06/2023 OB DATE INITIAL	CAIVAN (STITTSVILLE SOUTH) INC. & CA HYDROGEOLOGICAL EXIS PROPOSED RESIDENTIA 5993 & 6115 FLEWELLYN ROAD & 60 MECP WATER WELL L	TING CONDITIONS L DEVELOPMENT 30 & 6070 FERNBANK ROAD



Dwg. No.:

Revision No.: 2

PH4625-4

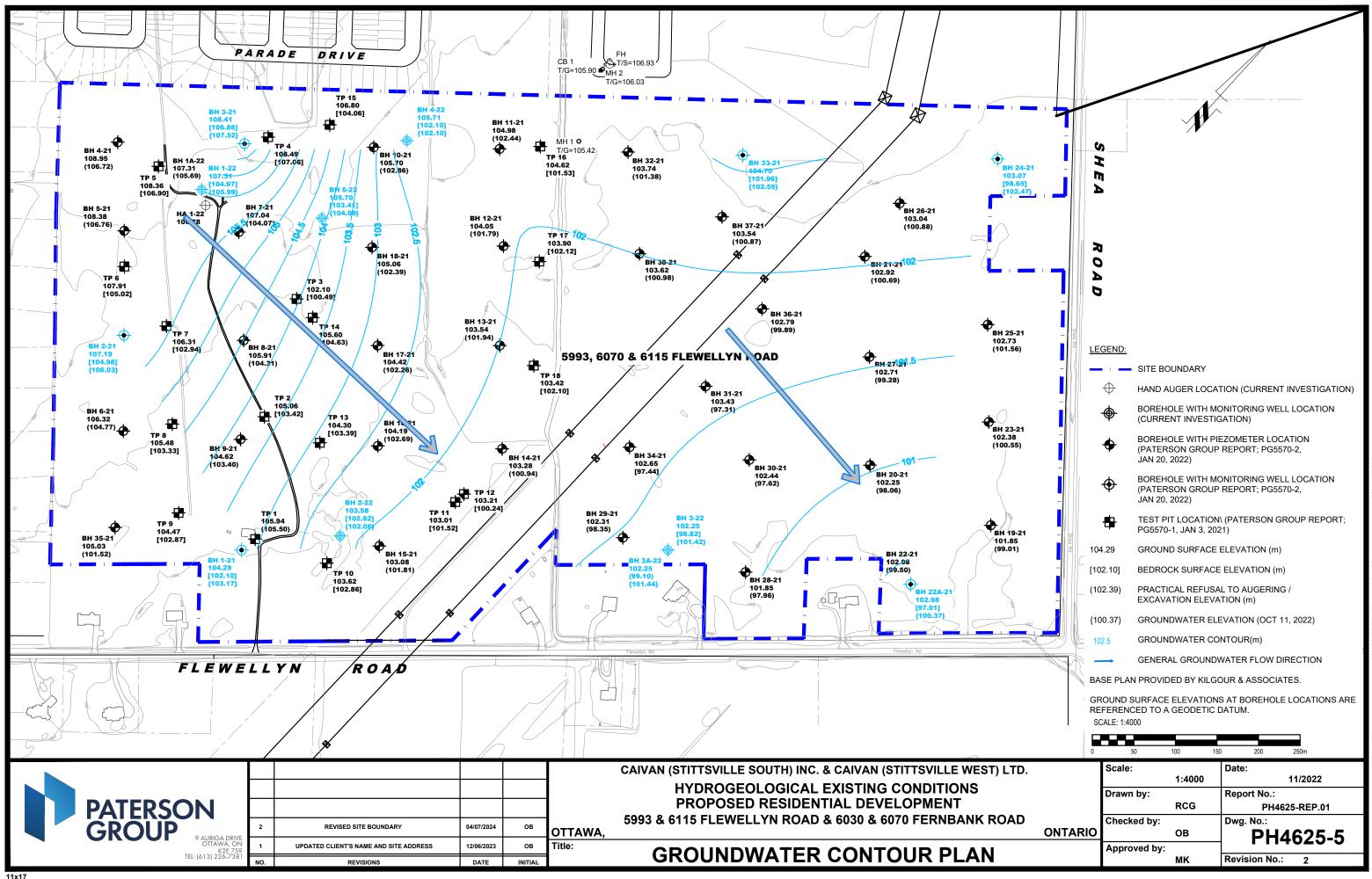
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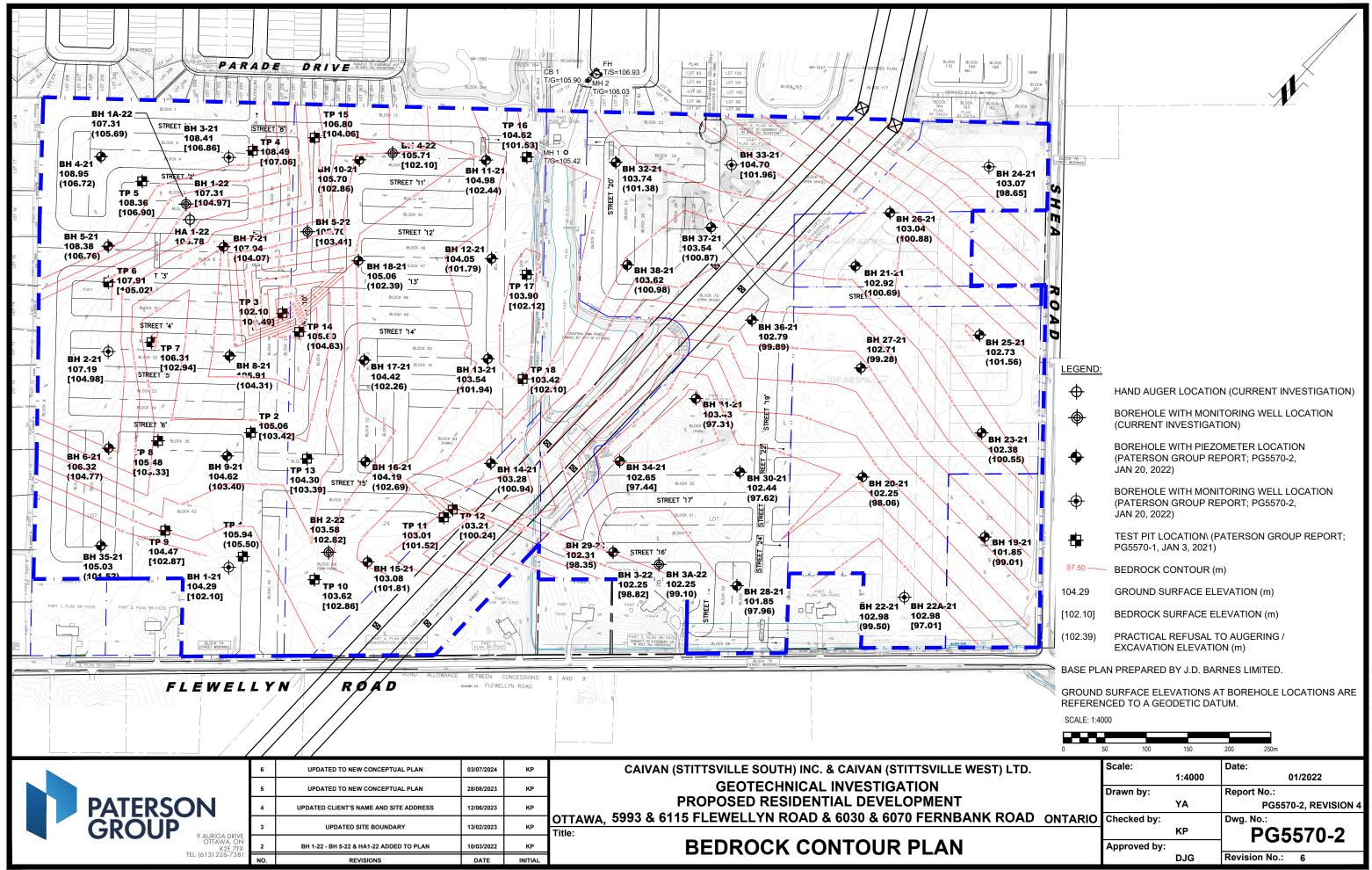
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ONTARIO Checked by:

Approved by:

utocad drawings\hydrogeology\ph46xx\ph4625 - caivan communities - 5993, 6070 & 6115 flewellyn rd\ph4625 - 14 (rev.02) aug 202





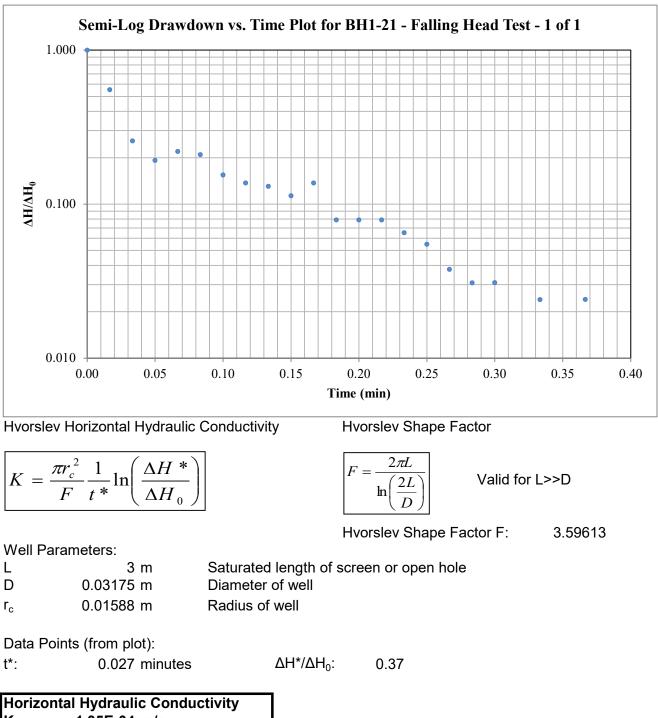
autocad drawings\geotechnical\pg55xx\pg5570\pg5570-1 thlp (rev.06)



APPENDIX 4

HYDRAULIC CONDUCTIVITY RESULTS - FALLING AND RISING HEAD TESTS

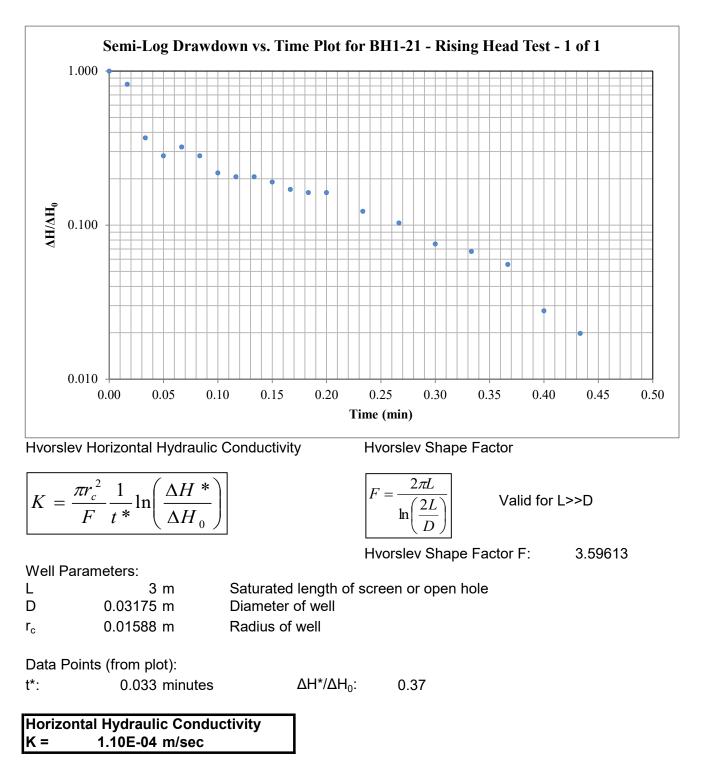
Project: Caivan - 5993 and 6115 Flewellyn Road and 6030 and 6070 Fernbank Road Test Location: BH1-21 Test: Falling Head - 1 of 1 Date: October 11, 2022





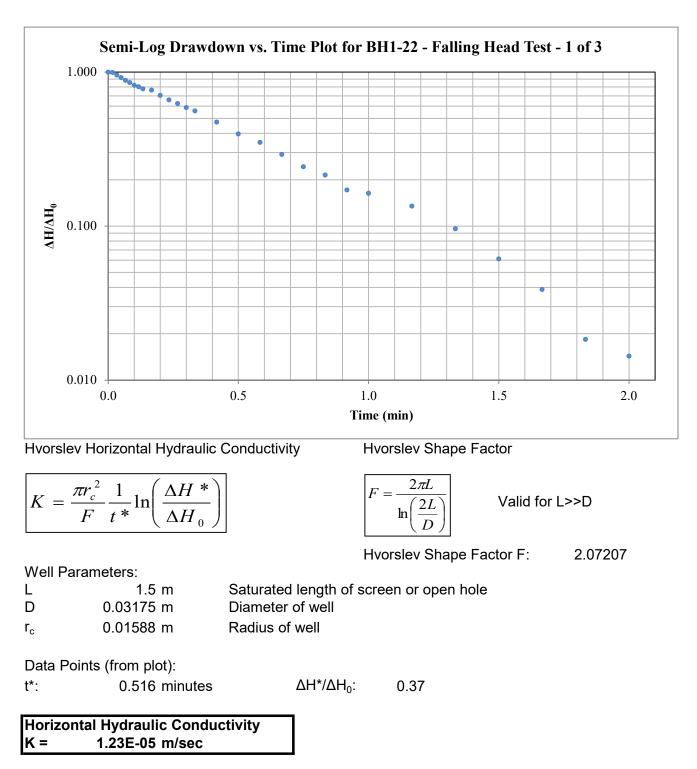


Project: Caivan - 5993 and 6115 Flewellyn Road and 6030 and 6070 Fernbank Road Test Location: BH1-21 Test: Rising Head - 1 of 1 Date: October 11, 2022



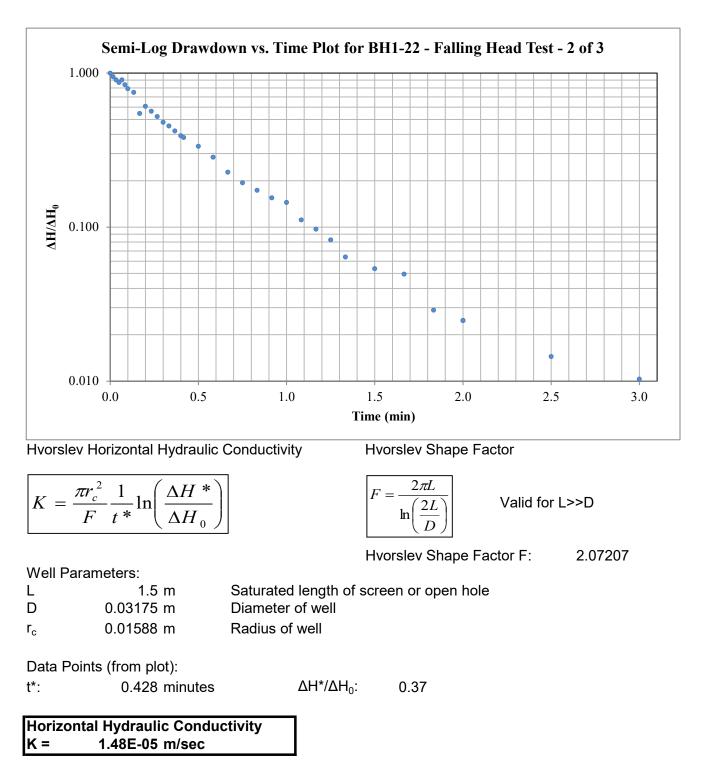


Project: Caivan - 5993 and 6115 Flewellyn Road and 6030 and 6070 Fernbank Road Test Location: BH1-22 Test: Falling Head - 1 of 3 Date: October 7, 2022



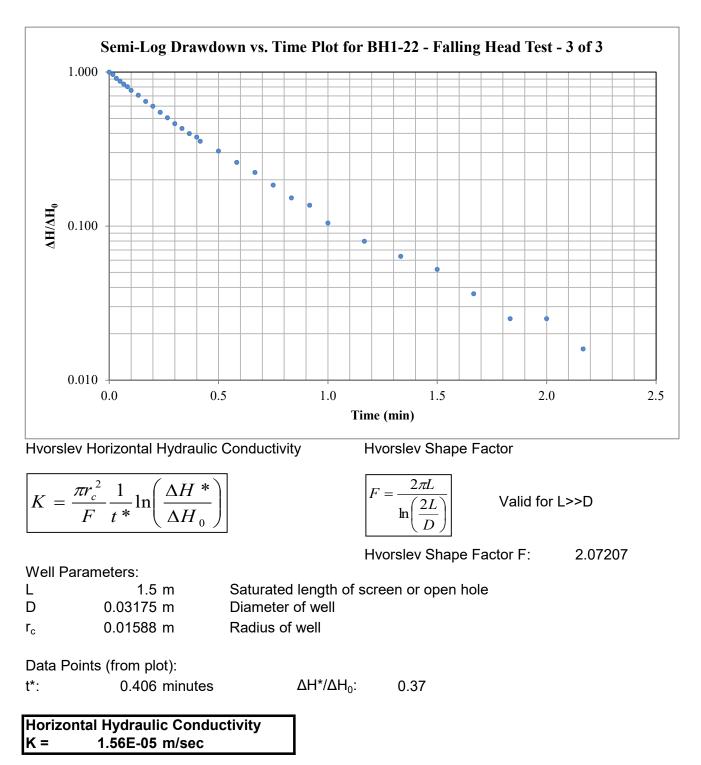


Project: Caivan - 5993 and 6115 Flewellyn Road and 6030 and 6070 Fernbank Road Test Location: BH1-22 Test: Falling Head - 2 of 3 Date: October 7, 2022



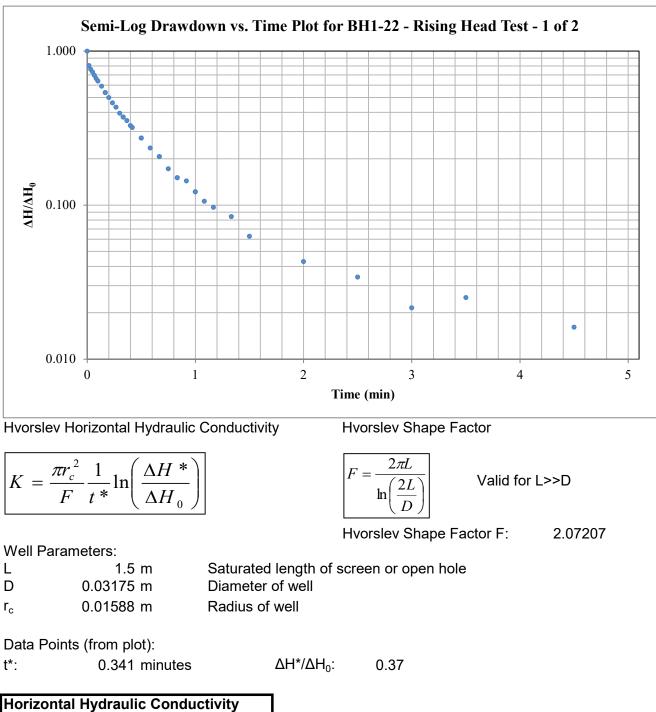


Project: Caivan - 5993 and 6115 Flewellyn Road and 6030 and 6070 Fernbank Road Test Location: BH1-22 Test: Falling Head - 3 of 3 Date: October 7, 2022





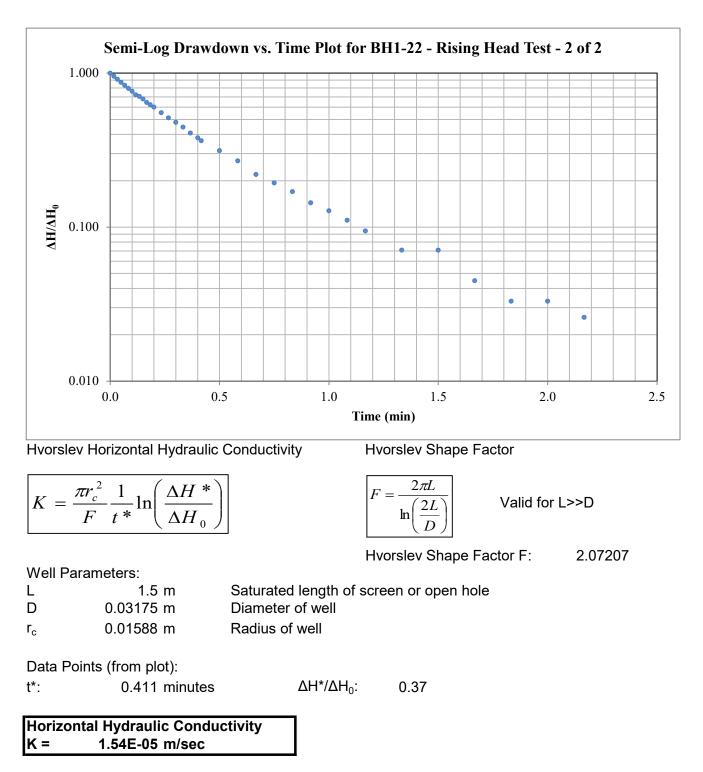
Project: Caivan - 5993 and 6115 Flewellyn Road and 6030 and 6070 Fernbank Road Test Location: BH1-22 Test: Rising Head - 1 of 2 Date: October 7, 2022



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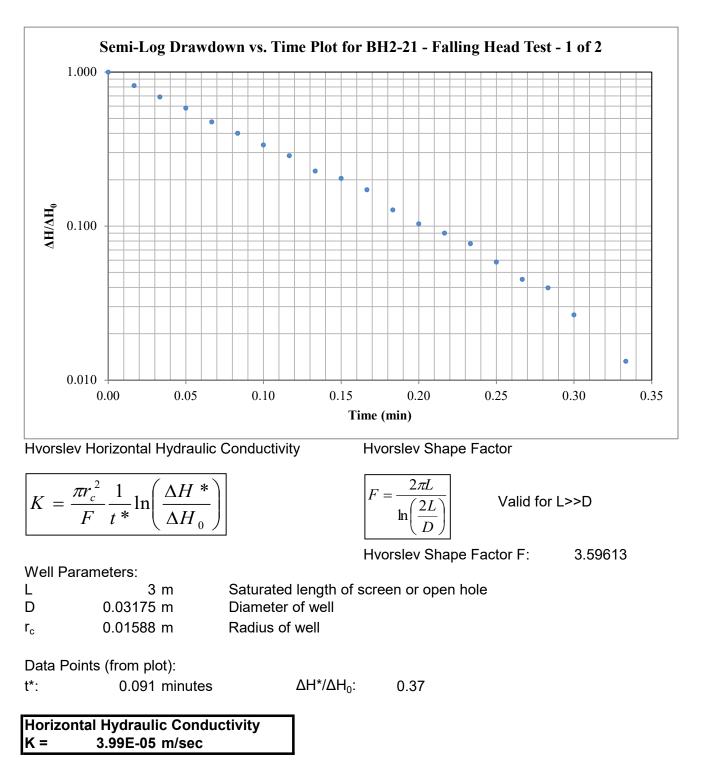


Project: Caivan - 5993 and 6115 Flewellyn Road and 6030 and 6070 Fernbank Road Test Location: BH1-22 Test: Rising Head - 2 of 2 Date: October 7, 2022



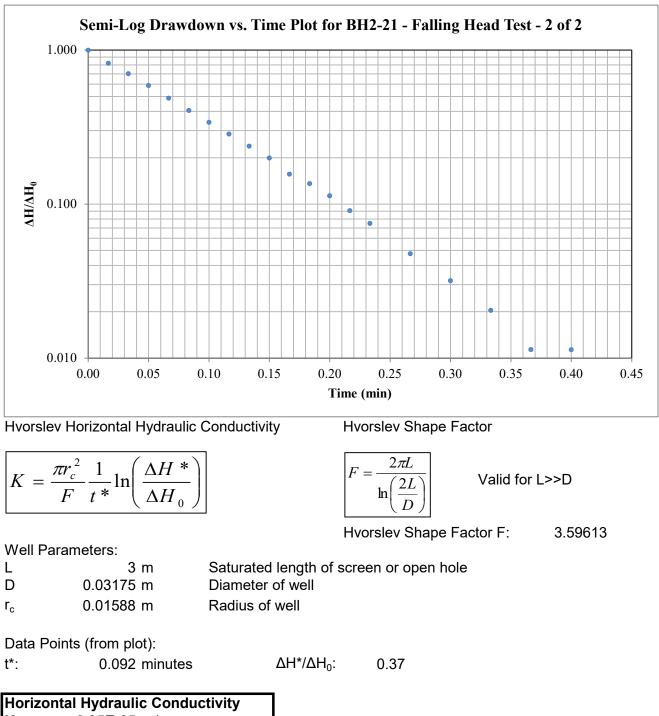


Project: Caivan - 5993 and 6115 Flewellyn Road and 6030 and 6070 Fernbank Road Test Location: BH2-21 Test: Falling Head - 1 of 2 Date: October 7, 2022





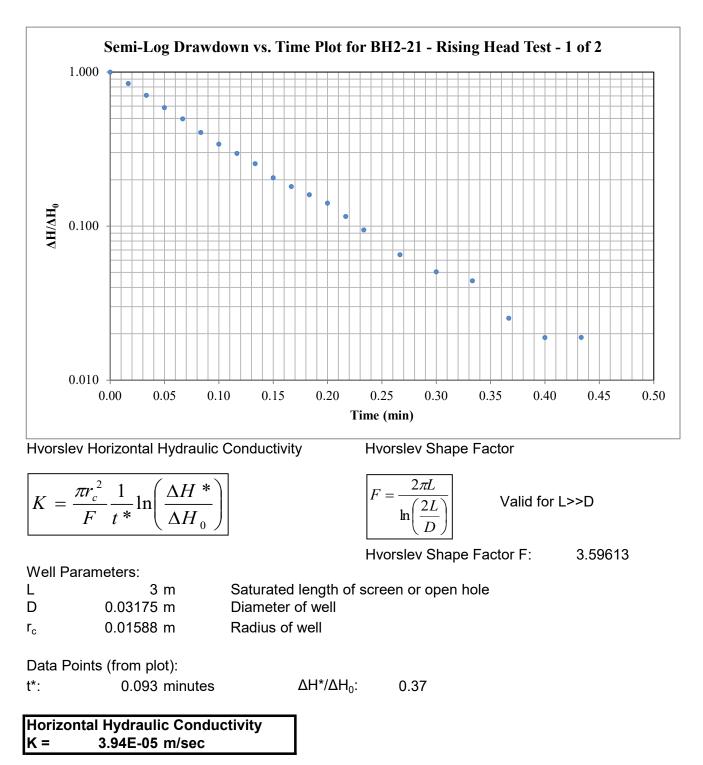
Project: Caivan - 5993 and 6115 Flewellyn Road and 6030 and 6070 Fernbank Road Test Location: BH2-21 Test: Falling Head - 2 of 2 Date: October 7, 2022





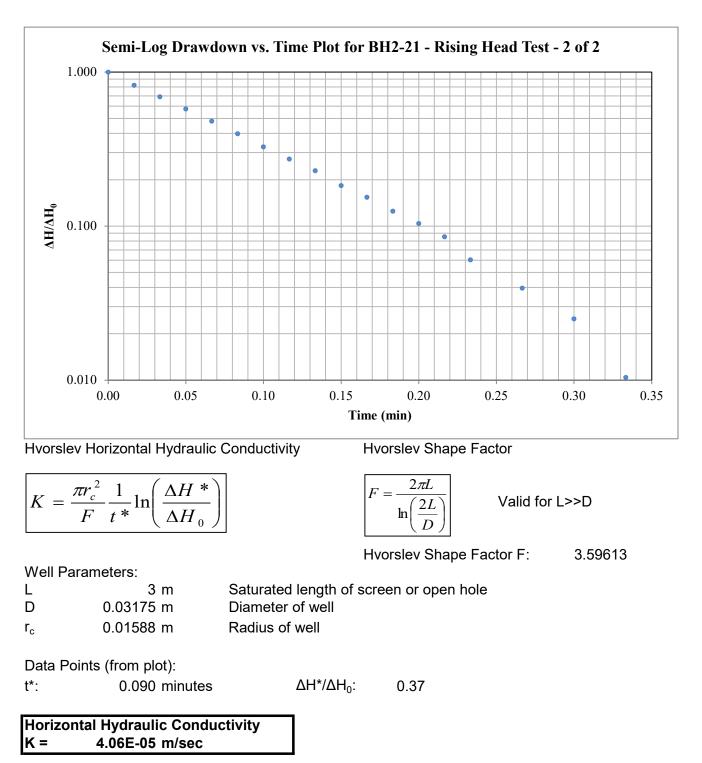


Project: Caivan - 5993 and 6115 Flewellyn Road and 6030 and 6070 Fernbank Road Test Location: BH2-21 Test: Rising Head - 1 of 2 Date: October 7, 2022



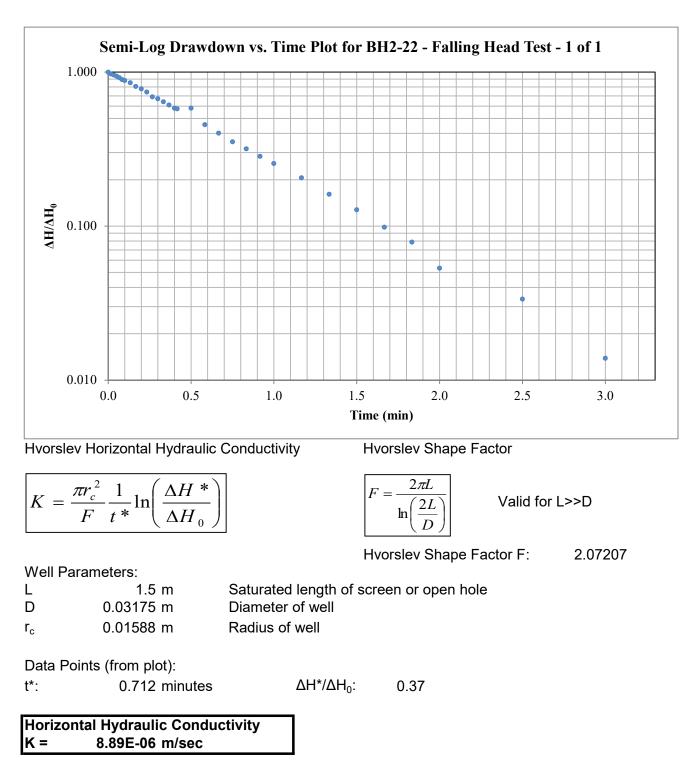


Project: Caivan - 5993 and 6115 Flewellyn Road and 6030 and 6070 Fernbank Road Test Location: BH2-21 Test: Rising Head - 2 of 2 Date: October 7, 2022



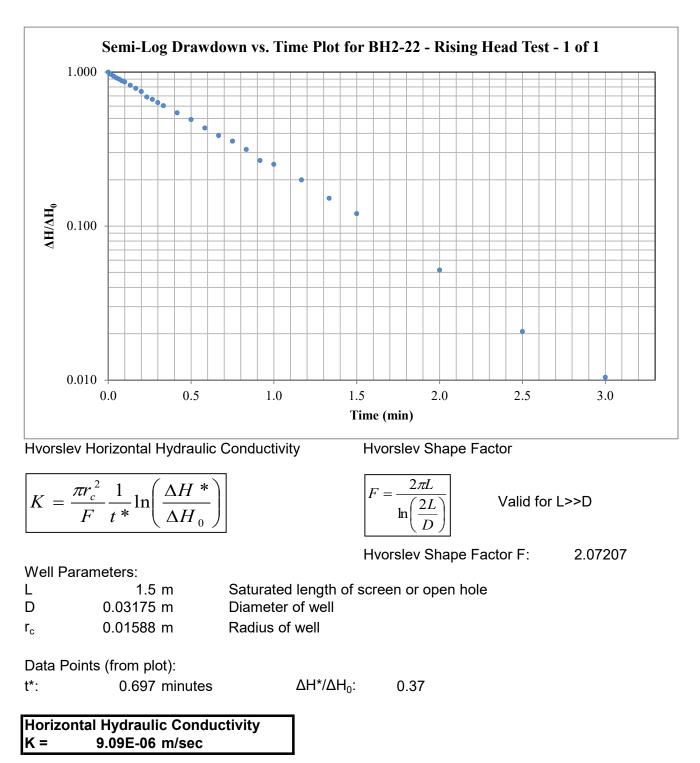


Project: Caivan - 5993 and 6115 Flewellyn Road and 6030 and 6070 Fernbank Road Test Location: BH2-22 Test: Falling Head - 1 of 1 Date: October 7, 2022



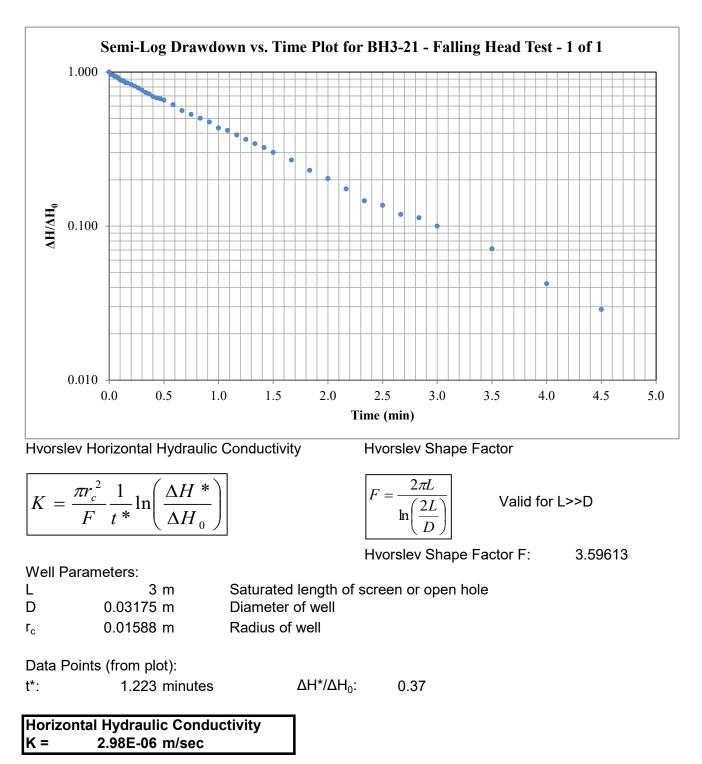


Project: Caivan - 5993 and 6115 Flewellyn Road and 6030 and 6070 Fernbank Road Test Location: BH2-22 Test: Rising Head - 1 of 1 Date: October 7, 2022



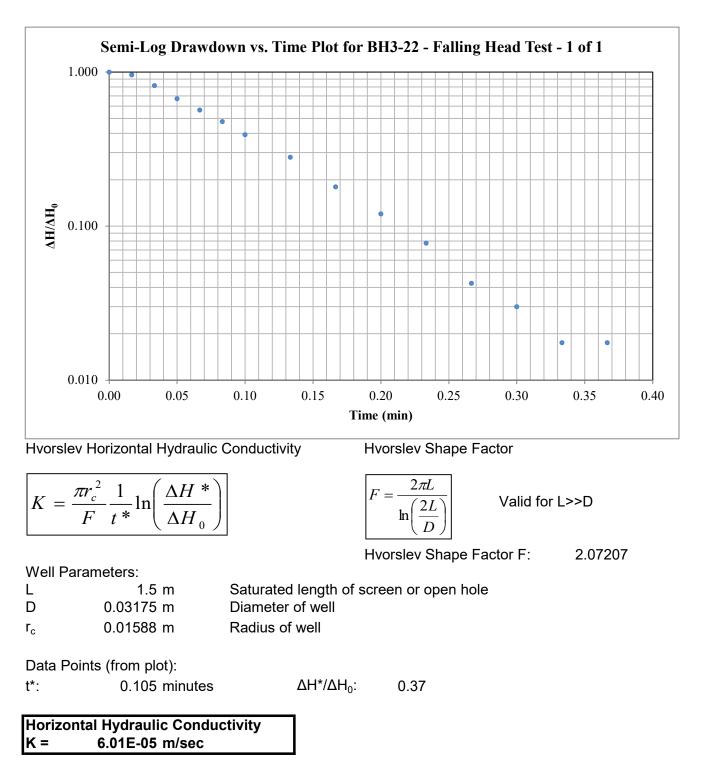


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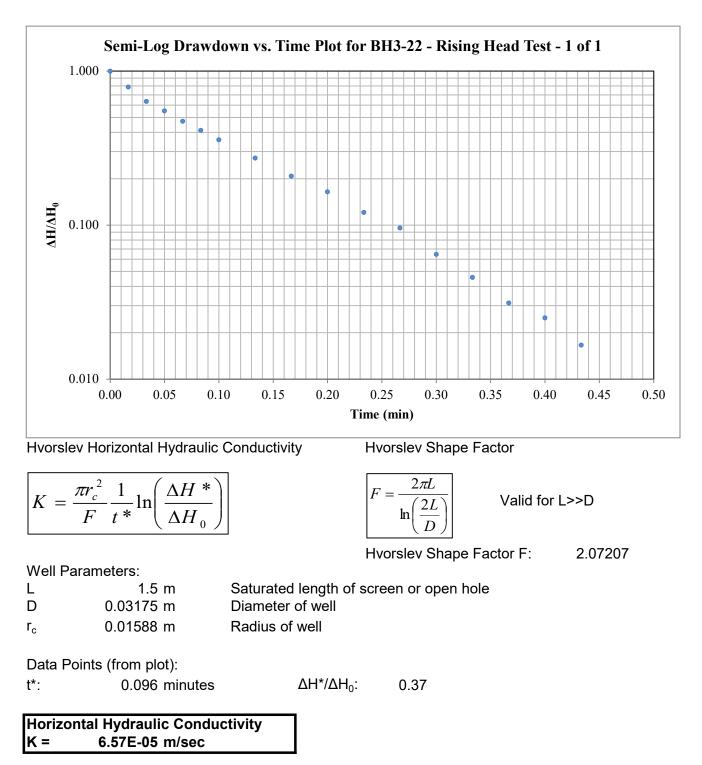


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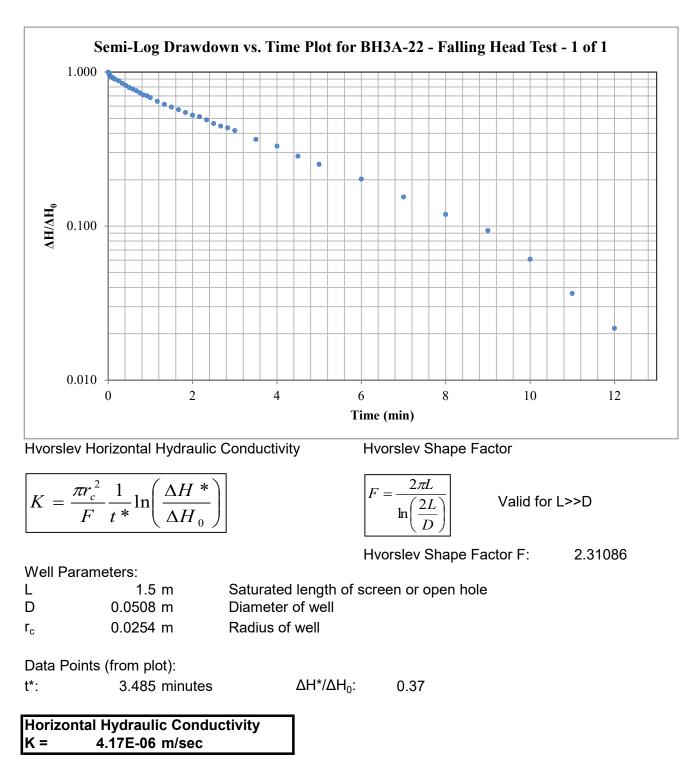


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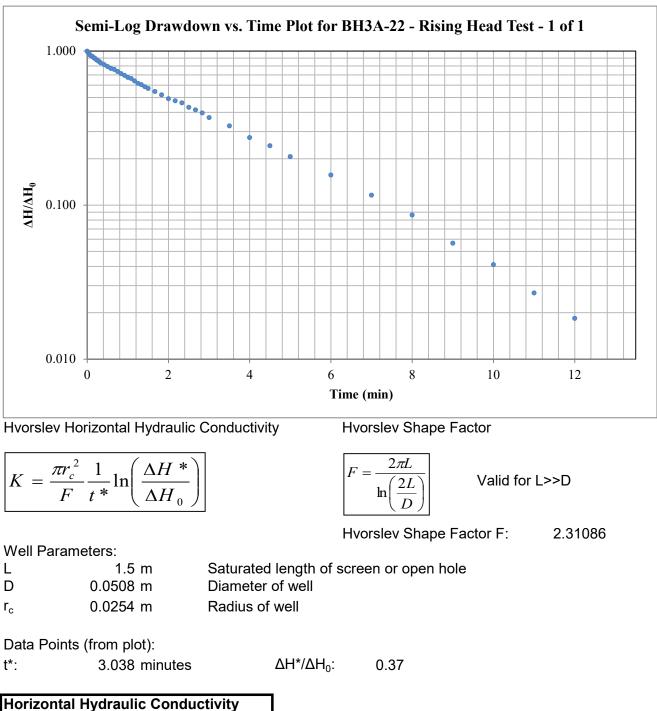


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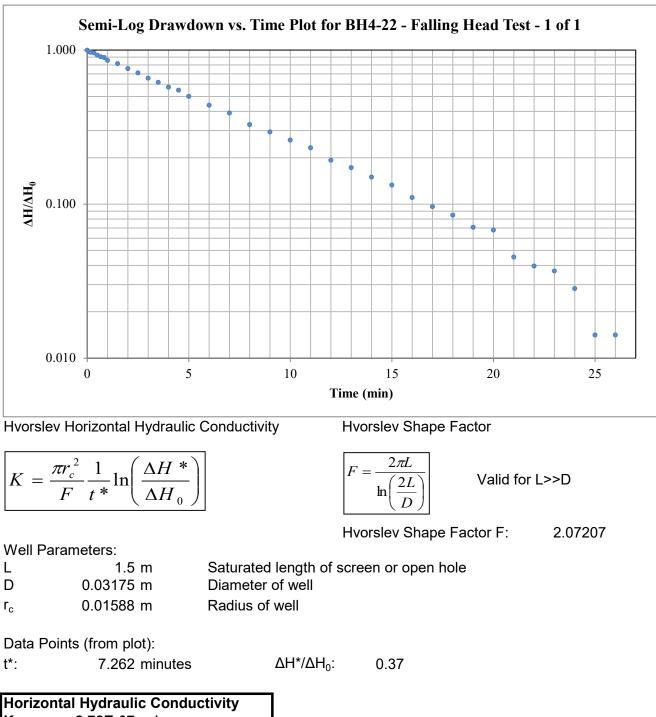
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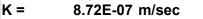


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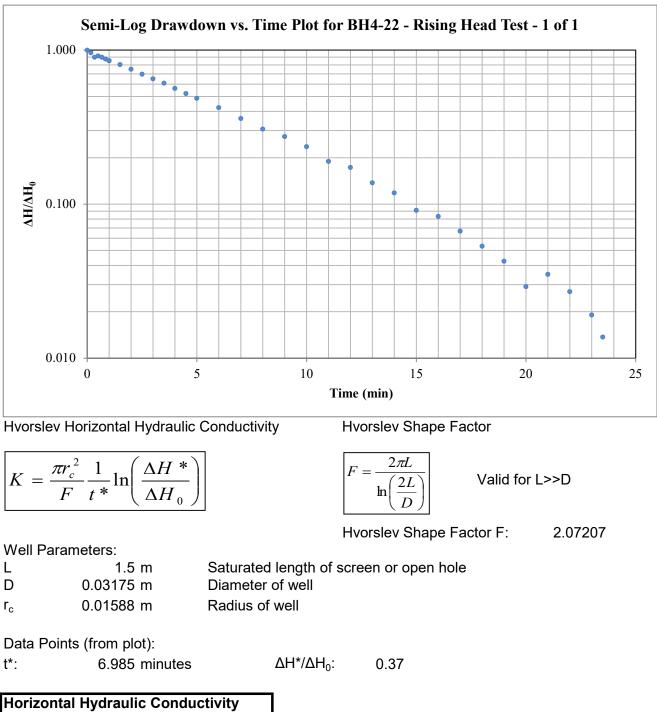
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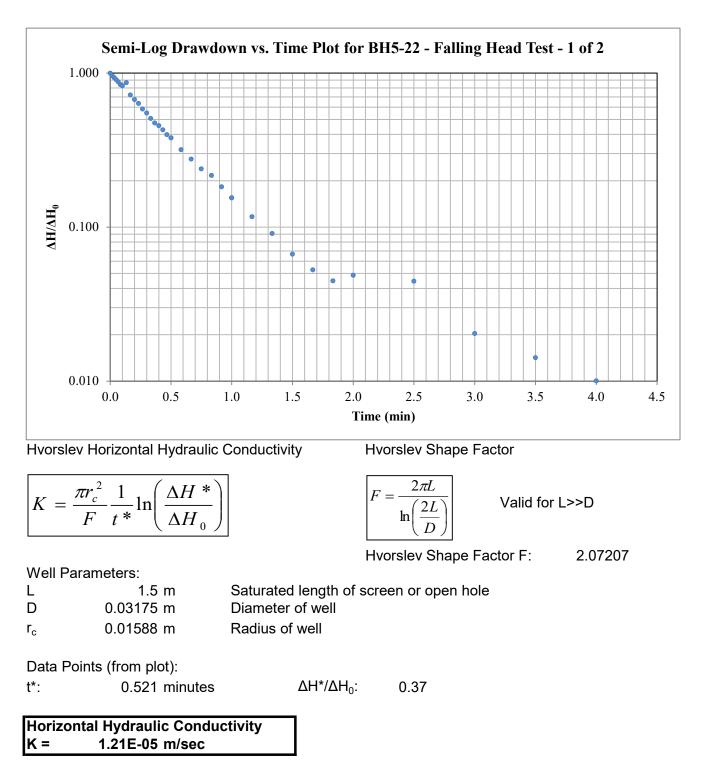
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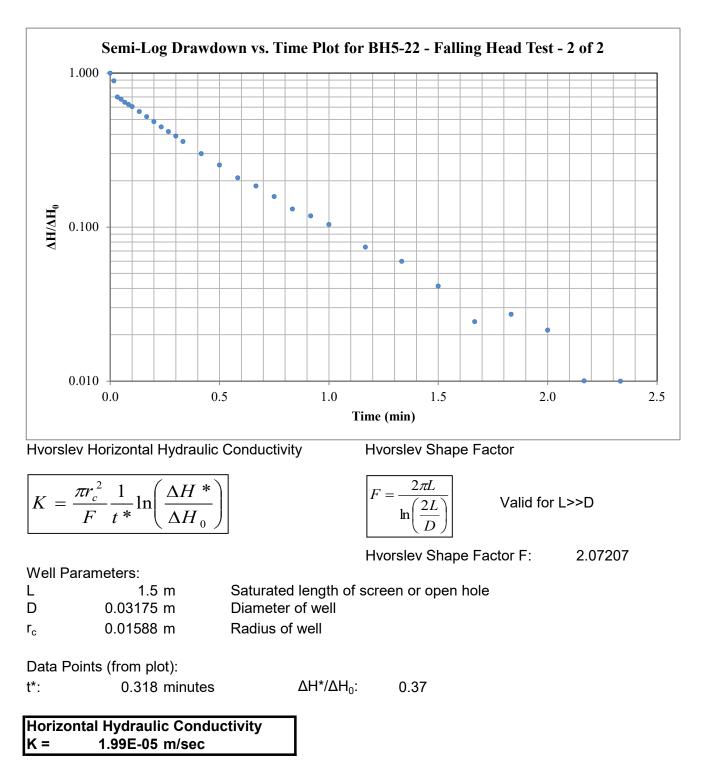


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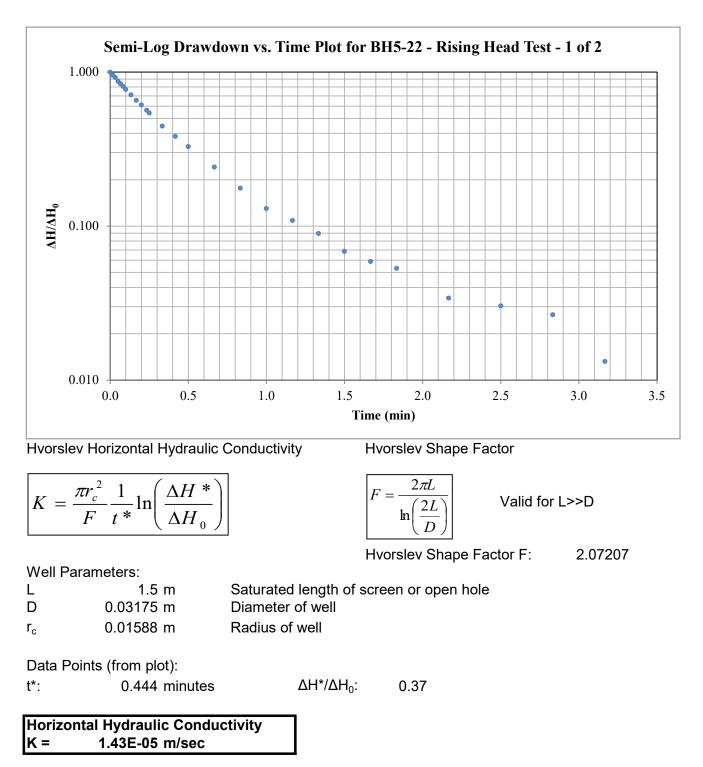


Project: Caivan - 5993 and 6115 Flewellyn Road and 6030 and 6070 Fernbank Road Test Location: BH5-22 Test: Falling Head - 2 of 2 Date: October 7, 2022



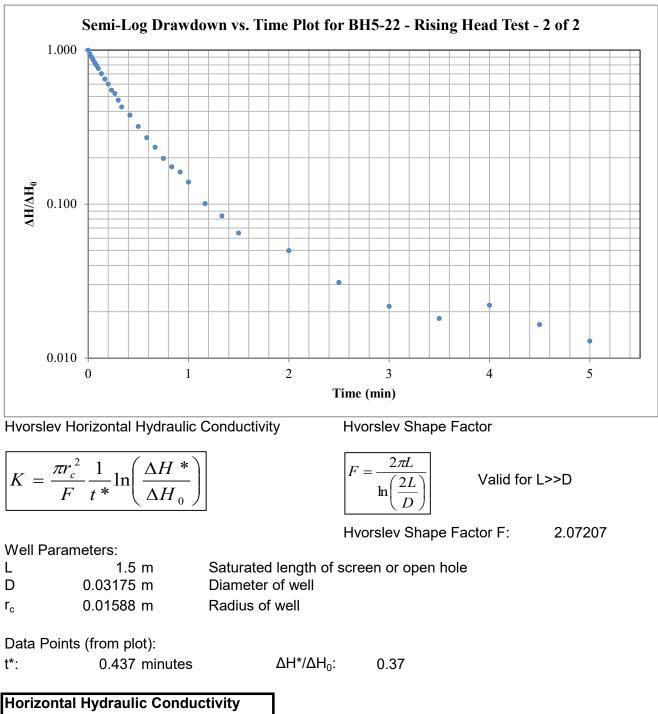


Project: Caivan - 5993 and 6115 Flewellyn Road and 6030 and 6070 Fernbank Road Test Location: BH5-22 Test: Rising Head - 1 of 2 Date: October 7, 2022





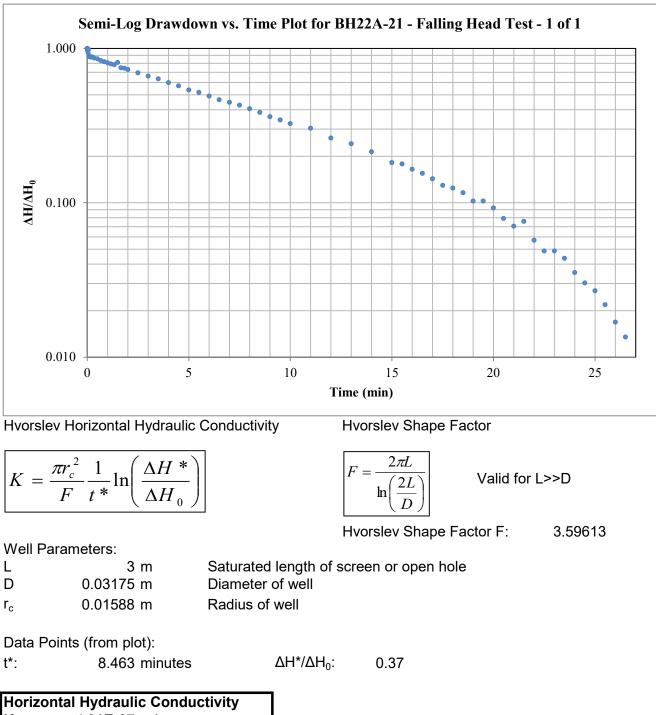
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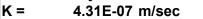


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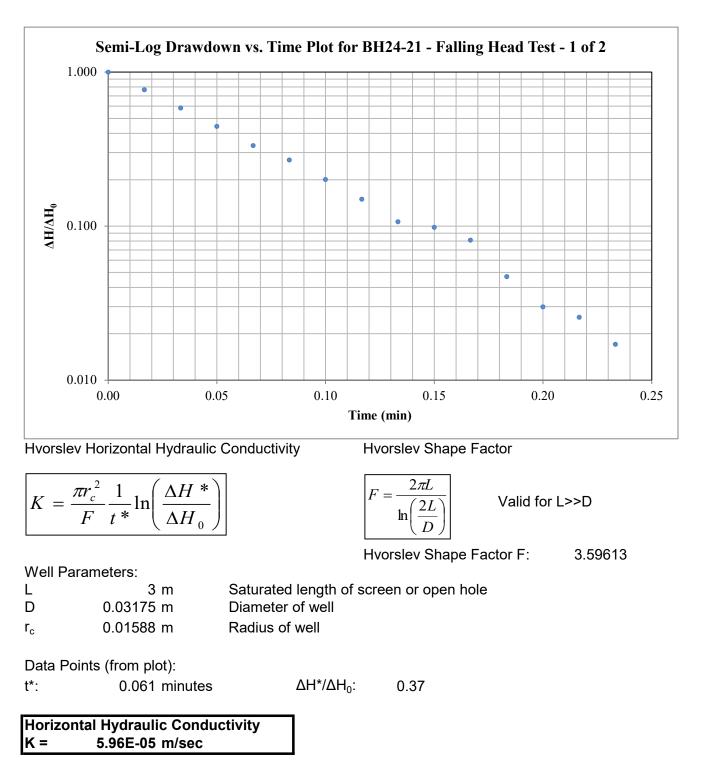
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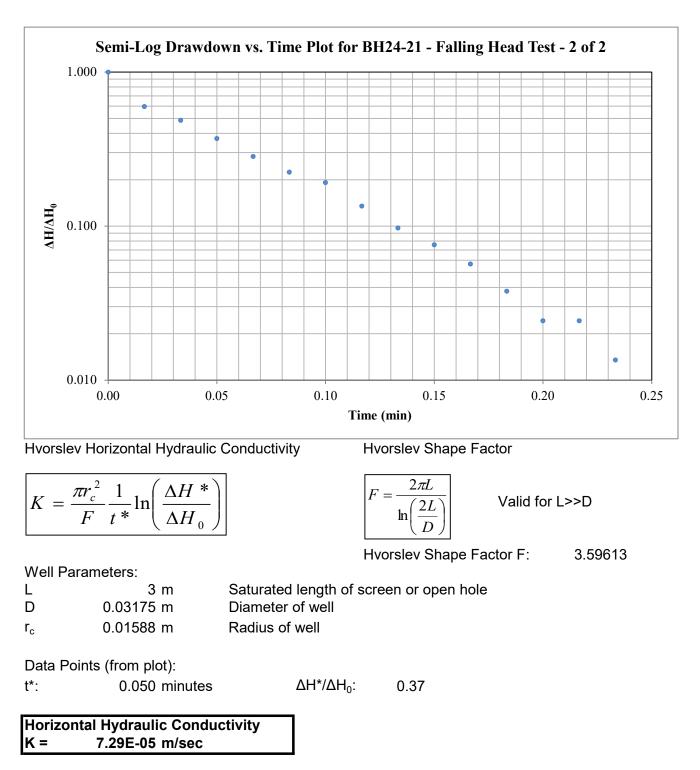


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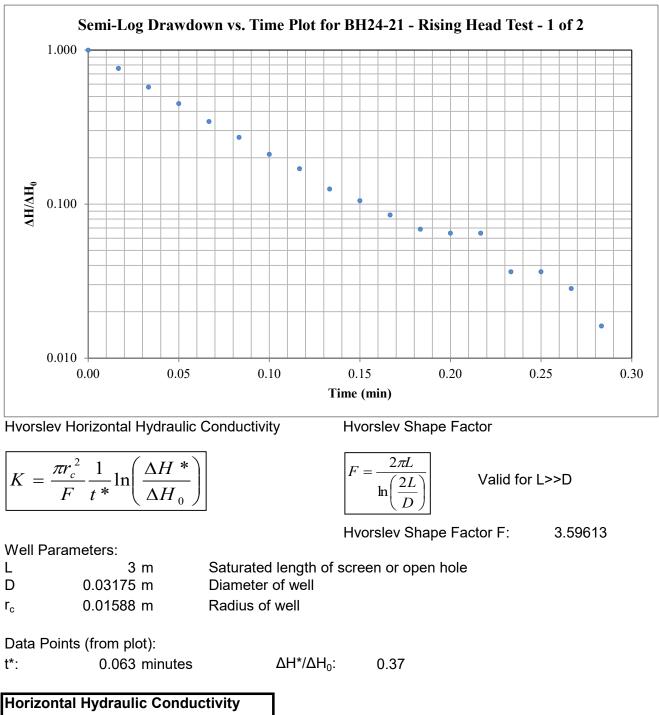


Project: Caivan - 5993 and 6115 Flewellyn Road and 6030 and 6070 Fernbank Road Test Location: BH24-21 Test: Falling Head - 2 of 2 Date: October 11, 2022





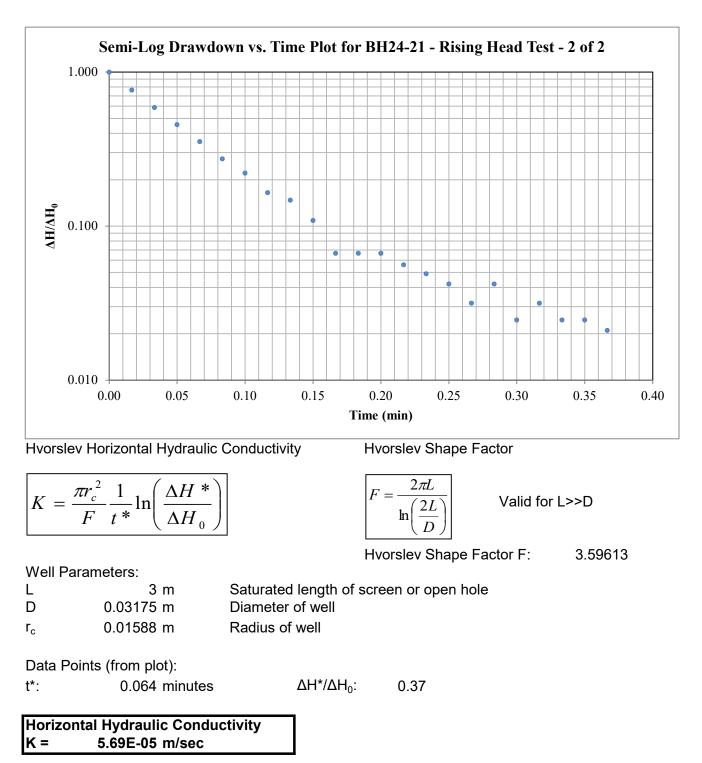
Project: Caivan - 5993 and 6115 Flewellyn Road and 6030 and 6070 Fernbank Road Test Location: BH24-21 Test: Rising Head - 1 of 2 Date: October 11, 2022



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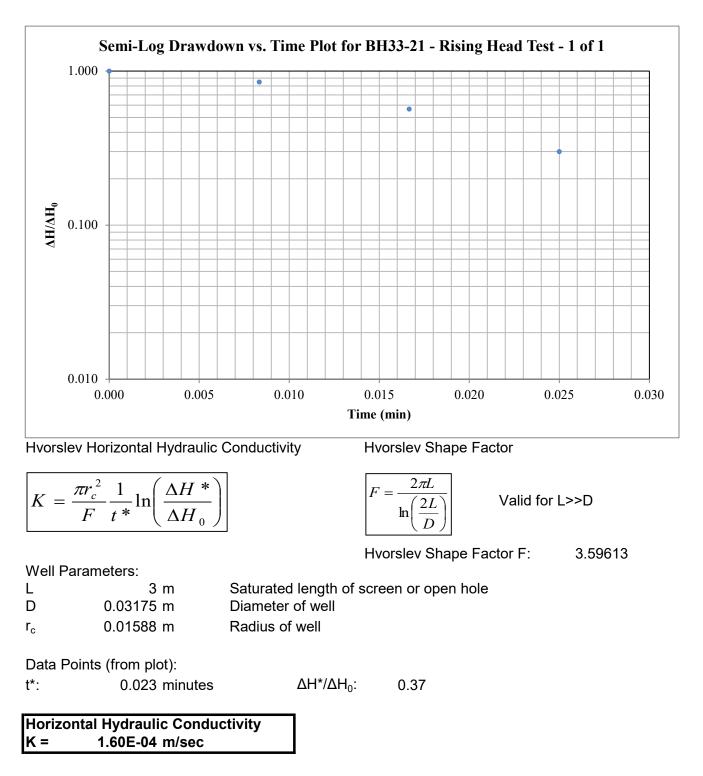


Project: Caivan - 5993 and 6115 Flewellyn Road and 6030 and 6070 Fernbank Road Test Location: BH24-21 Test: Rising Head - 2 of 2 Date: October 11, 2022



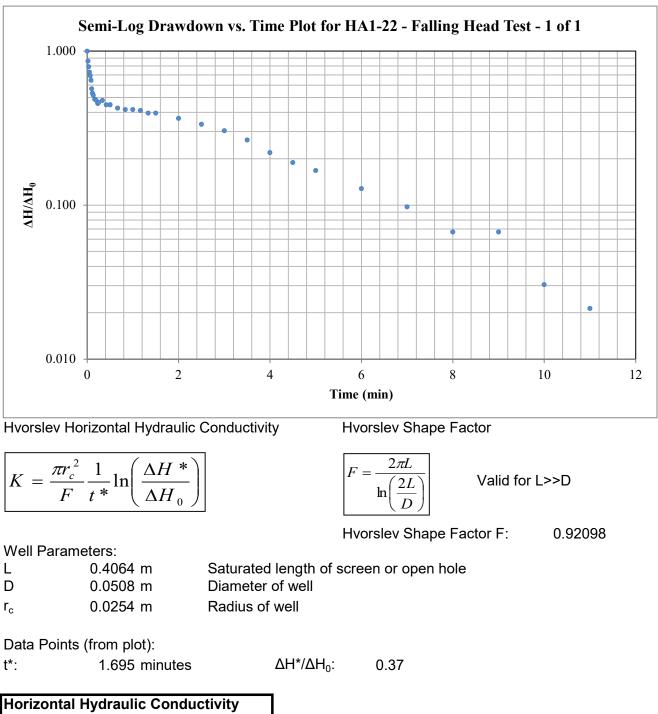


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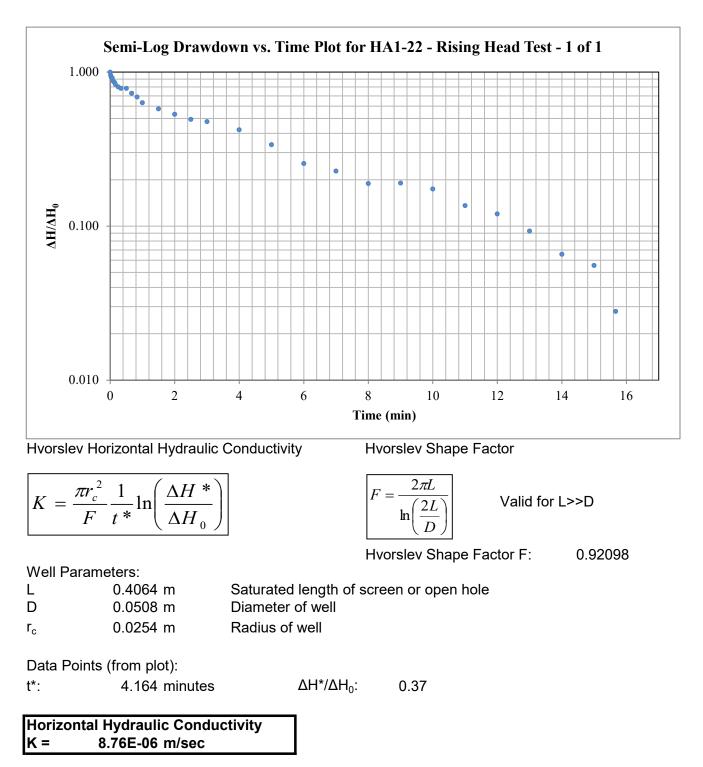
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K = 2.15E-05 m/sec



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







APPENDIX 5

MECP WATER WELL RECORDS

E A	314/4e			GROUND WATE	R BRANCH	Ç
511		ALE RING		in P	1959 15 N º	2540
JTM 118 2 4121918161				ONTARIO	WATER	Å
5 B 5101112010171			TUP	RESOURCES C	OMMICSION	
	he Ontario W	ater Resourc	es Commiss	ion Act, 1957		
Basin 215		WE		ECORD		
County or District				llage Town or	City 5-046	BOURN
County or District	<u>72/320</u> 7/	le	Township, v	eted 16	Month month	5~9
			ess	(day 57Anic	T. Cans.	ycar) •••••
					ping Test	
Casing and Scre	en Record				FLOWIN	6
Casing and Screet Inside diameter of casing Total length of casing Type of screen	47	Y **	Test num	ning rate	1	G .P.M.
Total length of casing	73		Dumming	loval		
Type of screen Length of screen	agiliteret.		I D MAR	of test numping	,	<u>[] (Z</u>
Depth to top of screen			Water cle	ear or cloudy at	end of test	3 G.P.M.
Diameter of finished hole	9		Recomme	ended pumping	rate	700
					iter Record	· · · · · · · · · · · · · · · · · · ·
Well L	.og			Depth(s)		Kind of water
Overburden and Bedrock Re	ecord	From ft.	To ft.	at which water(s) found	No. of feet water rises	(fresh, salty, sulphur)
	RED	0	20			
FINE SAND 1		20	30		_	
CLAY					FLOWING	FRESH
Lime Stone	~	30	62	62		
				<u> </u>	cation of Well	and 1
For what purpose(s) is the wate	r to be used?				w show distances	of well from
For what purpose(s) is the mate	·			road and lot li	ne. Indicate nort	h by arrow.
Is well on upland, in valley, o	r on hillside?					Λ
Drilling Firm WJ	AIN G	•••••			d ¹	
Drilling Firm Address 48 ME	MASTE	R				1
Address Bn.?	BN FOR A				STANL	EYCan
7	0			ومعروفه والمعارفة المحافظة المحافظة والمحافظة والمحافظة والمحافظة والمحافظة والمحافظة والمحافظة والمحافظة والمح		and the second
Licence Number	SAME				<	8 - 100
					(Se, and Second Seco	- 16
Address	~~~ / ~~				and a state of the	
Date	n'a				t ey Ber, sawaki oʻrov 2 san - Maria Berland	
(Signature of Licensed	Drilling Contracto	or)			CS	(.58
Form 5						

UTM $ 18 ^{2}$ $ 4 2 9 2 2$ $ 5 ^{R}$ $ 5 012 3 6 6$ Elev. $ 4 ^{R} 0 ^{3} 3 0 $ Basin $ 2 5 $ $ 1 1 $ County or Territorial District	The Wat Do Vater-	epartment of Well	Mines Record	ityJoulbo	SION X
(day)	(month)	(year)			
Pipe and Casing		(jour)		Pumping Test	<u></u>
Casing diameter(s)		P P	tatic level) 375 G. Per 25 H	hr
Well Log			,	Water Record	
Overburden and Bedrock Record	From ft.	To ft.	Depth (s) at which water (s) found	No. of feet water rise s	Kind of water (fresh, salty, or sulphur)
Soil	0	2			-
Gravel Lime Stone	20 20	<u>20</u> <u>18</u>	18	58	FRESh
For what purpose (s) is the water Domestic Is water clear or cloudy?	hillside? Hill King King King Are.	aide.	In diagram below road and lot line.	Indicate north	by arrow. North
Licence Number		, 2 m.g., -	Windows	yoo car ma	s con 9

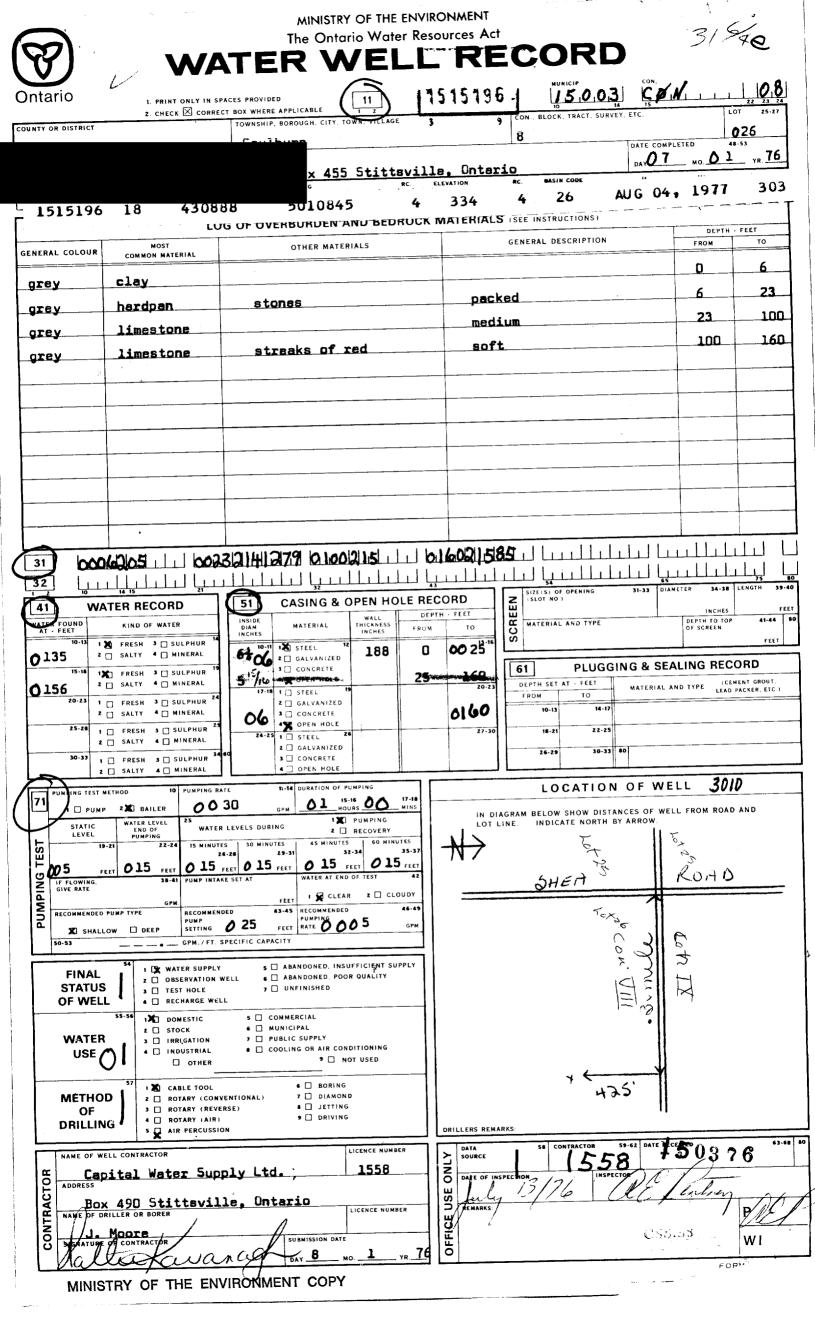
CS5.55

Form 5

	31G/4e		*	RECE	VED
UTM $ 1 8 2 4 3 0 7 3 $ 5 R 5 0 1 0 8 3				GEOLOGICAL	
Elev. $ \underline{4} ^{R}$ $ \underline{0} \underline{3} \underline{3} \underline{5} $	The Wat		ers Act, 1954	DEPARTNEN	A MILES N
Basin 215		epartment of			1 · · · ·
V	Vater.	Wel	l Record	01 10	
County or Territorial District	arleto	n	ip, Village, Town or C i		own
			Village, Town or City Idress	ville	Ont
Date completed	(month)	(year)			
Pipe and Casing	Record		۲ سر .	umping Test	
Casing diameter (s)	nch		Static level	AT I	mh
Length(s)	reen		Pumping rate 3O. Pumping level .2	L.	
Length of screen			Duration of test	lf 1	our
Well Log			V	Vater Record	
Overburden and Bedrock Record	From ft.	To ft.	Depth (s) aiwinch water(s) found found found found found	No. of feet water rises	Kind of water (fresh, salty, or sulphur)
gravel	0	15	evater		
limestone rock	15	75	nougert		- lacat
		-	1247	<u>6</u> U	pesh
			-10		
For what purpose(s) is the water Is water clear or cloudy?	ildirg	J.S	Loc In diagram below road and lot line.		
Is well on upland, in valley, or on			WEFE	ABO I	Opport
Drilling firm	le On	t.	, E	- 000	15
Name of Driller, 62.1		2	10 the	V M	
Licence Number. I certify that the statements of fact	foregoing are true.			f.p.	OVER
Date pril 20 Claufter	ignature of Licen	see		(≤ .	
Form 5			Stittser	lle O/	nt-

				316/5	i d
134427030				10222	Franks,
4 P + 5 0 1 1 2 6 6 0 The Ontario Water Res		Commission	السيسية المسيسية	9	
JV. 5 8 0 4 0 0		REC			
				le :	
County or District					
Con. IL Lot 24	Jate o	$\frac{2}{2} - \frac{1}{2}$	(day	month	year)
	ldre	ss	1 f . S. 21	£	<u> </u>
Casing and Screen Record			Pumpin		
Inside diameter of casing Division OF WATER RESOURCE	State	atic level	£		5
Total length of cashig	_	umping level			⊊G.r.M.
Length of screen	Du	uration of test I	oumping	G. A.	t
Depth to top of screen ONTARIO WATE RESOURCES COMMI	1 1 1			test 1/2	
Diameter of finished hole	R				G.P.M.
	wi	ith pump settin	ig of	T	w ground surface
Well Log		Denom	Ta	Depth(s) at	Kind of water
Overburden and Bedrock Record		From ft.	To ft.	which water (s) found	(fresh, salty, sulphur)
- isange graved			je se		
chail and		8	11		
Stand Reportant		11	<u> </u>	25-65	1- 20 2
			2		1
For what purpose(s) is the water to be used?	1	I	Location	of Well	
port for 100 gray		. 0		distances of wel icate north by	
Is well on upland, in valley, or on hillside?			iot inte. Ind		
Drilling or Boring Firm	∲ . ∳	- WY 15			s L
Address / market		AN. 10	Marine State		4
Address	çin-"			F .	4
Licence Number	-1-			60'01	
Name of Driller or Borer	\$		€) € ¹	d ??	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Address 2 2 2 2 min Statt gret	le	**************************************	14 6	a survey and a second sec	ار ب به ر به
Date	i			ъ.,	اء ج
(Signature of Licensed Drilling or Boring Contractor)					
Form 7 5M 60-20912					
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	The Ontario Water Resource	RECORD	
ter management in Ontario 1. PRINT ONLY IN SPA	ACES PROVIDED	1510833 - MUNICIP.	G_{Q}^{DN} 1 1 22 23 24
2. CHECK CORRECT	T BOX WHERE APPLICABLE	3 9 CON., BLOCK, TRACT, SURVEY, ETC	LOT 25-27
arl	ADDRESS	DATE	COMPLETED 48-53
	09730 H	EVATION RC, BASIN CODE II	
	G OF OVERBURDEN AND BEDROCK	MATERIALS (SEE INSTRUCTIONS)	47
MOST	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM TO
COMMON MATERIAL	provel	packed	0 12
ruun min	0		12 2/-
pey limestone	2	soft	
i i			
31 99/269911 992			
32 10 14 15 21	151 CASING & OPEN HOLE R	ECORD Z SIZE (S) OF OPENING 31-33 (SLOT NO.)	65 75 DIAMETER 34-38 LENGTH 39
41 WATER RECORD	INSIDE MATERIAL THICKNESS FROM	ECORD Z H - FEET W TO A MATERIAL AND TYPE	INCHES . F DEPTH TO TOP 41-44 OF SCREEN
73^{10-13} 1 FRESH 3 ULPHUR 14^{14}	INCHES INCHES PROM	<i>Q0/9</i> -16 S	FEET
15-18 1 FRESH 3 SULPHUR 2 SALTY 4 MINERAL	$3 \square \text{ concrete}$		SEALING RECORD
20-23 1 GRESH 3 GULPHUR 2 GRESH 4 MINERAL	17-18 1 STEEL 19 2 GALVANIZED 3 CONCRETE	FROM TO MATERI 10-13 14-17 14-17	AL AND TYPE LEAD PACKER, ETC.)
25-28 1 FRESH 3 SULPHUR 2 SALTY 4 MINERAL	24-25 1 STEEL 26	27-30 18-21 22-25	
30-33 1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL	2 GALVANIZED 3 CONCRETE 4 OPEN HOLE	26-29 30-33 80	
PUMPING TEST METHOD 10 PUMPING RAT		LOCATION OF	WELL
TO PUMP 2 BAILER 25		IN DIAGRAM BELOW SHOW DISTANCES OF V LOT LINE INDICATE NORTH BY ARROW.	VELL FROM ROAD AND
LEVEL PUMPING 19-21 22-24 15 MINUTE	ES 30 MINUTES 45 MINUTES 60 MINUTES 6-28 29-31 32-34 35-37	H	
U FEIDWING SHALL PUMP INTAKE	EET COFEET 25 FEET FEET	C PÍ	9 '
GIVE RATE GPM. RECOMMENDED PUMP TYPE RECOMMENDED	FEET CLEAR 2 CLOUDY ED 43-45 RECOMMENDED 46-49	Lon et	6
SHALLOW DEEP SETTING	60 FEET RATE 005 GPM.	4	J. OTT
54 SPEC CURPLY	5 ABANDONED, INSUFFICIENT SUPPLY		/#4
	VELL 6 ABANDONED, POOR QUALITY 7 UNFINISHED		
OF WELL 4 RECHARGE WELL			9
	6 MUNICIPAL 7 PUBLIC SUPPLY 8 COOLING OR AIR CONDITIONING	lon.	0
	⁹ 🗌 NOT USED		
OF 3 COTARY (REVER DRILLING 4 COTARY (AIR) 5 AIR PERCUSSION	9 DRIVING	DRILLERS REMARKS:	
MAME OF WELL CONTRACTOR	0 0 PH LICENCE NUMBER	DATA 58 CONTRACTOR 59-62 DAT	E RECEIPTED 80970
E apital Hater.		O DATE OF INSPECTION INSPECTOR	r/K
aboutal Hater, ADDANSS VA Ashford NAME OF DRILLER OR RORER		DATE OF INSPECTION INSPECTOR REMARKS:	r/K
opital Hater	In Ottawab	O DATE OF INSPECTION INSPECTOR	r/K

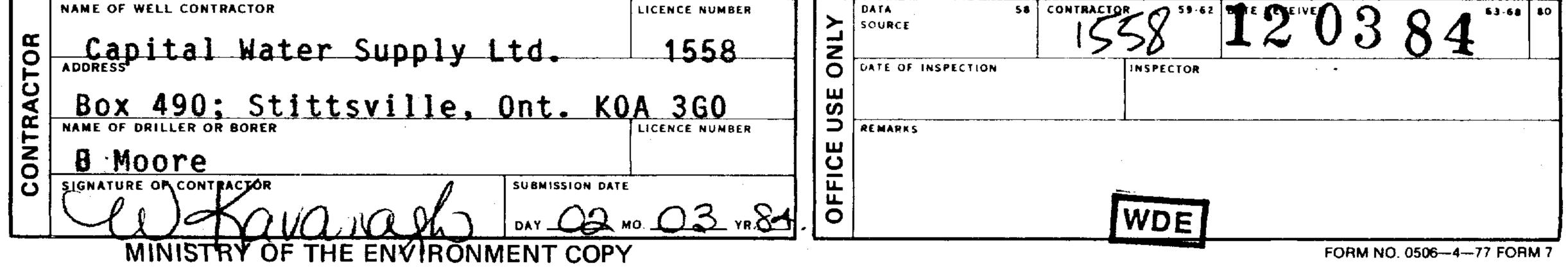


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Ontario	1. PRINT ONLY IN SPACE	TER Es provided		ы	15292		MUNICIP	CO N		1 00
COUNTY OR DISTRIC	2. CHECK 🛛 CORRECT E	BOX WHERE APPLICABLE TOWNSHIP, BOROUGH,		3	9		LOCK, TRACT, SUR	EY, ETC.		22 23 24 LOT 25-27
Carlelo	n.	Moul	bow	m			The Martin		PLETED	0 .23
		VG	ill soul	RC. EI		MAT .	MASIN CODE	DAY	5	YP 4
Γ			589	4	360	4		AUG 04	, 1977	303
GENERAL COLOUR CO	MOST MMON MATERIAL	OT OVERBURD	MATERIALS				DESCRIPTION		DEPTI	H · FEET
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Blue		flay							Ø	30
Long		limes	time	· <u></u>					30	70
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41 WATER R	· · · · · · · · · · · · · · · · · · ·	SIDE		E RECO			DF OPENING D.1	31-33 DIAME	TER 34-38 INCHES	LENGTH 39-40
10-13 1 FRESH		AM. MATERIAL HES 10-11 I T STEEL	12	FROM	TO 13-16		L AND TYPE		DEPTH TO TOP OF SCREEN	41-44 80 FEET
15-18 1 🔲 FRESH	3 🖸 SULPHUR ¹⁹ 4 🗋 MINERAL	2 GALVANIZE 3 CONCRETE 4 OPEN HOL				61	PLUGGIN	IG & SEAL	ING RECO	ORD
	3 🗌 SULPHUR ²⁴ 4 🗍 MINERAL	17-18 1 🗌 STEEL 2 🗌 GALVANIZE 3 🗌 CONCRETE			20-23	DEPTH SET FROM 10-13	AT - FEET TO 14-17	MATERIAL AND		ENT GROUT. PACKER, ETC.)
	3 🗋 SULPHUR 29 4 🗋 MINERAL	4 OPEN HOL 24-25 1 STEEL	E 26		27-30	18-21	22-25			
30-33 1 🗌 FRESH 2 🗌 SALTY	3 🗍 SULPHUR 34 80 4 🗍 MINERAL	2 🗌 GALVANIZE 3 🗍 CONCRETE 4 🗋 OPEN HOLI				26-29	30-33 80			
71 PMPING TEST METHOD		II-14 DURATION O	15-16 🥰 👌 17-11			LO	CATION	OF WEL	L 290	9
STATIC WATER LEVEL END	LEVEL 25 OF WATER LEVELS	DURING	HOURSMINS PUMPING RECOVERY	s	IN DIAG		SHOW DISTANC ATE NORTH BY A		FROM ROAD /	AND
	22-24 15 MINUTES 30	45 MINUTES 45 MINU	TES 60 MINUTES 2-34 60 MINUTES FEET FEE		JEL	ERE		16		
C FEED	38-41 PUNP INTAKE SET AT		ND OF TEST 4	2	r	10.1				
RECOMMENDED PUMP TYPE	GPM RECOMMENDED PUMP SETTING	43-45 RECOMMEND		9		V	•	16		1
50-53						*			•	\checkmark
SIAIUS ,	WATER SUPPLY OBSERVATION WELL TEST HOLE	5 🗋 ABANDONED, IN 6 🗋 ABANDONED, PC 7 🛄 UNFINISHED				305	- 3/10m			N
	RECHARGE WELL			┤┥╍╼	60	N	- 110m	-71		
	IRRIGATION 7 [MUNICIPAL PUBLIC SUPPLY COOLING OR AIR CO 	NDITIONING	- 1	00'	HL				
02	OTHER		NOT USED			• • •			> 0	
	CABLE TOOL ROTARY (CONVENTIONAL ROTARY (REVERSE)	6 ☐ BORING _) 7 ☐ DIAMO 8 ☐ JETTIN	ND		M1 1 0	ł			: 5	
	ROTARY (AIR) AIR PERCUSSION	9 🗋 DRIVIN	G	DRIL	ERS REMARKS	STAN	DLEY		-	DASI
CC B. H.	TOR Spar	es	LICENCE NUMBER		OATA SOURCE	······		DATE RECEIVED	5047	6 63-68 80
ACTOR	716	Cont.	j	SEON	May a	20 19	76 INSPECTOR	0/0	the.	
NAME OF DRILLER OR BO	RER		LICÊNCE NUMBER		REMARKS:		<u> </u>		77	- NGA-
SIGNATURE OF CONTRACT	Spark	SUBMISSION DATE	5 ,15	OFFI			(288.58		
MINISTRY OF T	HE ENVIRONN							<u> </u>	FORM	7 07-091

Minis	stry		The Ontario Water Resources A	Act 31G	F40
of th Envi	ronment	•	R WELL R	ECO	RC
ntario	1. PRINT ONLY IN S	SPACES PROVIDED 11	518820		
UNTY OR DISTRICT Ottawa-C		TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE			_ot 25-21 25 25 25
2		CLO H. Steenbakker	KOA 3GO 31	9	
NERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FROM	- FEET TO
rown	Clay	Hardpan	Packed	0	3
ray	Limestone		Broken layers	3	8
Gray	Limestone		Medium Hard	8	70
					, <u>_</u>

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	$\begin{array}{c c} 32 \\ 1 \\ 2 \\ 1 \\ 1 \\ 2 \\ 10 \\ 10 \\ 14 \\ 15 \\ 15 \\ 15 \\ 21 \\ 21 \\ 21 \\ 21 \\ 21$		
:	41 WATER RECORD	51 CASING & OPEN HOLE RECO	RD SIZE(S) OF OPENING 31-33 DIAMETER 34-38 LENGTH 39-40
	WATER FOUND AT - FEET KIND OF WATER	INSIDE WALL DEPTH - DIAM MATERIAL THICKNESS FROM	TO MATERIAL AND TYPE . DEPTH TO TOP 41-44 30
	10-13 1 FRESH 3 SULPHUR 65 2 SALTY 4 MINERAL	10-11 T STEEL 12 2 GALVANIZED	13-16 OF SCREEN FEET
	15-10 1 _ FRESH 3 _ SULPHUR 19 2 _ SALTY 4 _ MINERAL	6¼ ³ ☐ ₹ONCRETE 188 0	19 61 PLUGGING & SEALING RECORD
	20-23 1 _ FRESH 3 _ SULPHUR 24	17-18 1 STEEL 19	20-23 DEPTH SET AT - FEET MATERIAL AND TYPE (CEMENT GROUT. FROM TO LEAD PACKER, ETC.)
-	2	CONCRETE CONCRETE CONCRETE	10-13 14-17
	2 SALTY 4 MINERAL 30-33 34 60	24-25 1 STEEL 26 2 GALVANIZED	27.30 18-21 22-25
•••	2 SALTY 4 MINERAL	CONCRETE	26-29 30-33 80
	71 PUMPING TEST METHOD 10 PUMPING RATE	E 11-14 DURATION OF PUMPING	LOCATION OF WELL
	1 DUMP 2 R BAILER STATIC WATER LEVEL 25	IZ GPMHOURSNINS	IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND
	LEVEL END OF WATER L PUMPING 19-21 22-24 15 MINUTES	2 C RECOVERY	LOT LINE INDICATE NORTH BY ARROW.
	IF FLOWING, 30-41 PUMP INTAKE	SET AT WATER AT END OF TEST 42	Heritage Corners Subdivision
	S RECOMMENDED PUMP TYPE RECOMMENDED PUMP	FEET CLOUDY FEET CLOUDY 43-45 RECOMMENDED 46-49 PUMPING) Corners
	SHALLOW TO DEEP SETTING	50 FEET RATE 5 GPM	NET SUCCESSION 3
ן 	54 J De WATER SUPPLY		10/10/13
	FINAL 2 OBSERVATION WEL STATUS 3 TEST HOLE	5 ABANDONED, INSUFFICIENT SUPPLY LL 6 ABANDONED POOR QUALITY 7 UNFINISHED	
	OF WELL 4 C RECHARGE WELL		1 LOT #25: 10 10
		5 CONMERCIAL 6 MUNICIPAL	
		7 D PUBLIC SUPPLY COOLING OR AIR CONDITIONING 9 D NOT USED	
	57		Crawford Road
	METHOD 2 CABLE TOOL 2 ROTARY (CONVENT OF 3 ROTARY (REVERSE		
·	DRILLING 4 DRITARY (AIR) AIR PERCUSSION	DRIVING	平 1
ļ		DRILL	ERS REMARKS

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Ministry		\ A / A					CO	PN
of the Environme	ent	VVA	TE		1 Ca	m, ∎ ` ===		
Ontario	1. PRINT ONLY IN SPACES PRO	DVIDED 11	151	930	1 1.50	The land	Merqui	1091
COUNTY OR DISTRICT	2. CHECK 🛛 CORRECT BOX W		AGE		CON. BLOCK TRACT	SURVEY, ETC.	7	22 23 24 OT 25-27
		lboar			1 Con	1	FTED	24
		, 21. K	2P#1	St.	toull	DATE COMP	$) / \Lambda$	
		<u>// ب ۵0 ×</u>	<u> </u>		RC BASIN CODE		1	······································
1 2 M 10	12 17	18 24	25 26					<u>47</u>
	·	OVERBURDEN AND BEI		TERIALS			DEPTH -	FEET
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41 WATER RE	CORD 51	CASING & OPEN HO			SIZE (S) OF OPENING (SLOT NO)	31-33 DIAME		LENGTH 39-40
	DF WATER INSIDE DIAM. INCHES	MATERIAL WALL THICKNESS INCHES	DEPTH - F	FEET	MATERIAL AND TYP	 E	INCHES DEPTH TO TOP OF SCREEN	FEET 41-44 30
	3 _ SULPHUR 14 10- 4 _ MINERAL / 1	1 1 STEEL 12		13-16	S.			FEET
15-18 1 DERESH	3 D SULPHUR 19 94	2 GALVANIZED 1 CONCRETE 4 OPEN HOLE	O	22 [GGING & SEA	LING RECO	RD
	4 [] MINERAL 0 7 3 [] SULPHUR 24			20-23	DEPTH SET AT - FEET	MATERIAL AN		ENT GROUT, ACKER, ETC.)
2 🖸 SALTY	A D MINERAL	GALVANIZED	22/	05	18 22	" Cemor	tgrou	led
2 🗌 SALTY	3 [] SULPHUR 29 4 [] MINERAL 24-			27-30		- 25	/	
30-33 L _ FRESH 2 _ SALTY	3 [] SULPHUR ^{34 10} 4 [] MINERAL	CONCRETE COPEN HOLE			26-29 30	-33 80		
PUNPING TEST METHOD	10 PUMPING RATE	IN-14 DURATION OF PUMPING		490	V LOCATI	ON OF WEL	.L	
71 1 PUMP 2 BA	1 EVEL 25	GPM	17-18	IN DIAG	RAM BELOW SHOW D	ISTANCES OF WELL	FROM ROAD	AN D
STATIC END LEVEL PUMP	OF WATER LEVELS DU	RING 2 RECOVERY	UTES	LOT LIN	INDICATE NORT	H BY ARROW.		Λ
	0 100 100	120-31 100 32-34 100	35-37					ΛI I
IF FLOWING, GIVE RATE	FEET UP FEET UN 30-81 PUNP INTAKE SET AT	WATER AT END OF TEST	FEET 42					/ ¥ c
U FECTURE		FEET 1 CLEAR 2 CLU 43-45 RECOMMENDED	46-49				-36m	
SHALLOW LE DE		FEET RATE	GPM		00	à.		
60-53						र	11	
	OBSERVATION WELL .	ABANDONED, INSUFFICIENT SU	PP£Y		r c	2		
	TEST HOLE 7	UNFINISHED			C	7		
	—	CONMERCIAL MUNICIPAL			7	5 Fohn		
WATER ,	IRRIGATION 7	MUNICIPAL PUBLIC SUPPLY COOLING OR AIR CONDITIONING				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
USE 1		• NOT USED			V V		Ţ	
		6 D BORING 7 DIAMOND						
OF 3	ROTARY (CONVENTIONAL) ROTARY (REVERSE) ROTARY (AIR)	7 📋 DIAMOND B 🗌 JETTING 9 🔲 DRIVING				I		
			DRIL	LERS REMARKS	S.			
NAN O WELL CONTRA	11.01	hillers 364	× >		SA CONTRACTOR	4 ST. 42 DATE 2 F	510	84
ACTOR ACTOR	auno wie L	mergy 501	<u> </u>	DATE OF INSPEC				
	26, Kichuno,	of Unit.		REMARKS				
SIGNATURE OF CONTRACT	J Mare	LICENCE NUMBE						
SIGNATURE OF SOUTRAC	for U	SUBMISSION DATE	OFFICE		WD			
						<u>.</u>	FORM NO. 050	6—4—77 FORM 7
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Ontario	1. PRINT ONLY IN S		[11]	19	522	58	5	1,5,0,0		л. 		
COUNTY OR DISTRICT	2. CHECK 🗵 CORR	ECT BOX WHERE APPLICABLE TOWNSHIP, BOROUGH, CI		GE			CON	BLOCK, TRACT, SU	IRVEY. ETC	,	LC	OT 25-27
Ottorn Co	rloton	GOL	lbourn				_ [9	DATE	COMPLETED	41	24
		0	Fernbank		BOX	41	Stit	KOA 3GO	DAY	<u>05</u> M	• _ 07 _	<u>- YR. 88</u>
1 2	M [10 12				18							
	LC	G OF OVERBURDE	N AND BED	ROCK	MATER	IALS	(SEE IN	NSTRUCTIONS)			DEPTH -	FFET
GENERAL COLOUR	MOST COMMON MATERIAL	OTHER M	ATERIALS				GENERA	AL DESCRIPTION	l 	FI	ROM	то
Brown	Sand										0	3
Gray	Sandy clay	Boulders									3	11
Gray	Limestone	Dark Layer	S								11	125
					-							
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31						<u>_</u>						
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COUNTY OR DISTRICT		TOWNSHIP, BOROUGH CITY, TOWN, VILLAGE		CON., BLOCK, TRACT. SURVE		LOT 25-27 24
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		Matheson Blvd.	ELEVATION	issaugamOntario		
		OF OVERBURDEN AND BEDRO		S (SEE INSTRUCTIONS)		47
GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS		GENERAL DESCRIPTION	FRO	DEPTH - FEET M TO
Brown	Sand & Gravel	<u> </u>		-		0 21
Gray	Limestone	Black LAyers		Medium	2	21 64
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	TER RECORD	51 CASING & OPEN HOLE		SIZE ISL OF OPENING ISLOT NO I U MATERIAL AND TYPE	31-33 DIAMETER 3	4-38 LENGTH 39-40 CHES FEET
WATER FOUND AT - FEET 10-13	FRESH 3 SULPHUR	DIAM MATERIAL THICKNESS FI	RUM TO	WATERIAL AND TYPE	DEPTH TO OF SCREI	
33	BESH 3 DSULPHUR	6 1044 1 Steel 4 .188 2 Galvanized 3 Concrete 4 Oppen Hole	0 21	61 PLUGGIN	NG & SEALING F	
5/ N	SALTY & MINERALS	5 □ PLASTIC 17-18 1 □ STEEL 2 □ GALVANIZED	20-23	DEPTH SET AT - FEET FROM TO	MATERIAL AND TYPE	(CEMENT GROUT LEAD PACKER, ETC.)
	FRESH 3 SULPHUR		21 64	10-13 20 18-21 22-25	Grouted Ce	ment (
	4 D MINERALS 5 SALTY 6 D GAS 6 GAS 6 SULPHUR 34 10 6 MINERALS	1 DSTEEL 2 DGALVANIZED 3 DCONCRETE 4 DOPEN HOLE		26-29 30-33 60		
		5 DPLASTIC		LOCATION		
[71]	2 De Bailer	20 GPM 15-16 17-18 HOURS MINS		GRAM BELOW SHOW DISTAN		OAD AND
	PUMPING	Image: Second state Image: Second state	LOT-L		ARROW.	
		29-31 32-34 33-37 18 FEET 18 FEET 18 FEET T AT WATER AT END OF TEST .42]		
G IF FLOWING. GIVE RATE RECOMMENDED PI	ST-41 PUNP INTAKE SE	FEET 1 CLEAR 2 🕱 CLOUDY			-	
RECOMMENDED P	1	43-45 RECOMMENDED 46-49 50 FEET RATE 5 GPM				
0-53				· ·	5	pac
FINAL STATUS	1 St WATER SUPPLY 2 DESERVATION WELL 3 ST TEST HOLE	S ABANDONED, INSUFFICIENT SUPPLY B ABANDONED POOR QUALITY 7 UNFINISHED				shea Road
OF WELL	4 🗍 RECHARGE WELL	DEWATERING COMMERCIAL)	hea
WATER	2 STOCK 3 IRRIGATION	MUNICIPAL PUBLIC SUPPLY			X Test w	, al o
USE	4 [] INDUSTRIAL [] OTHER	COOLING OR AIR CONDITIONING			X Test	2
METHOD		ONAL) 7 DIAMOND	<u> </u>	lewellyn Rd	<u> </u>	
	ION 4 D ROTARY (REVERSE) S D AIR PERCUSSION O		DRILLERS REMAR	ĸs		142251
NAME OF WELL		WELL CONTRACTOR'S			2 DATE RECEIVED	63-68 80
Capital	Water Supplu Lt		SOURCE		APR 1	3 1994
) <u>Stittsville, C</u>	ntario K2S 1A6				
	TECHNICIAN/CONTRACTOR	TOO97/TOO96	OFFICE			
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	1. PRINT ONLY IN 2. CHECK 🔀 CORR	ECT BOX WHERE APPLICABLE				IN BLOCK TRACT. SURVEY		LL	22 23 74
COUNTY OR DISTRICT		TOWNSHIP, BOROUGH CIT		1		9			24
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		<u>) Mati</u> '41177	neson Bly	RC. ELEVATION			· · · · · ·		
	M 10 12	17 16	<u> </u>	25 26	<u>30</u>	31	<u></u>	<u> </u>	
· · · · · · · · · · · · · · · · · · ·	MOST	DG OF OVERBURDEN				E INSTRUCTIONS)			- FEET
GENERAL COLOUR	COMMON MATERIAL	OTHER MA				TERAL DESCRIPTION		FROM	10 E
Brown	Sandy Clay							<u> </u>	5
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1 2 10	TER RECORD	51 CASING &	OPEN HOL	E RECORD	z	54 SIZE(S) OF OPENING 3 (SLOT NO)	65 NI-33 DIAMETER	34-38	75 EC
WATER FOUND AT - FEET	KIND OF WATER	INSIDE DIAM MATERIAL	WALE THICKNESS	DEPTH - FEET FROM T		MATERIAL AND TYPE		INCHES	FEE1 41-44 31
1 12	FRESH 3 SULPHUR SALTY 6 MINERALS	6 174 STEEL	112 .188		2.5		0	FSCREEN	FEET
31 15-18 , [FRESH 3 SULPHUR	3 CONCRETE 4 OPEN HOLE			61	PLUGGING	& SEALIN	NG RECO	DRD
57-58		5 D PLASTIC	19			PTH SET AT - FEET M	ATERIAL AND TY	PE ICEM	ENT GROUT ACKER, ETC)
	SALTY 6 GAS	6 2 DGALVANIZED 3 CONCRETE 4 MOPEN HOLE 5 DPLASTIC		22.5 6	3	10-13 14-17 21 0 G1	routed C	lement	(10)
* [2] FRESH 3 DSULPHUR 4 DMINERALS 3 SALTY 6 DGAS	24-25 1	26		27-30	18-21 22-25			
	3 DSULPHUR 34 4 DMINERALS 5 SALTY 6 DGAS	O 3 □ CONCRETE 4 □ OPEN HOLE 5 □ Plastic				26-29 30-33 80			
71 PUMPING TEST ME	THOD 10 PUMPING RA			-18		LOCATION O	FWELL		
	2 BAILER WATER LEVEL 25	20 GPMH		15		BELOW SHOW DISTANCES		OM ROAD	AND
LEVEL	PUMPING 22-24 15 MINUTE	S 30 MINUTES 45 MINUTE			LOT LINE	INDICATE NORTH BY AR	KOW.		
		EET 20FEET 20	FEET 20		F	ernbank Ro	sad		
C Z FEE IF FLOWING GIVE RATE RECOMMENDED PU	38-41 PUMP INTAKI	1.0 0.0	DOFTEST	42 DY					
RECOMMENDED PU	GPN JMP TYPE RECOMMEND PUMP	PELI		-49					
SO-53	W DEEP SETTING	45 FEET RATE	5 @	5PM					
FINAL	34 1 St WATER SUPPLY	S 🗍 ABANDONED, INS	UFFICIENT SUPPL						Road
STATUS	2 OBSERVATION WI 3 TEST HOLE	7 🔲 UNFINISHED	OR QUALITY			XF	ropose		
OF WELL	4 C RECHARGE WELL	DEWATERING					~°`		Shea
WATER	2 STOCK 3 IRRIGATION	MUNICIPAL PUBLIC SUPPLY						(あ
USE	4 🔲 INDUSTRIAL	COOLING OR AIR COM	IDITIONING OT USED						
	57 ' St CABLE TOOL	22.5-63 · D BORING					,		
METHOD OF	2 C ROTARY (CONVE 3 ROTARY (REVER	NTIONAL) 7 [] DIAMON SE) 8 [] JETTING	;			Flewellyn R	oad		
CONSTRUCT	ION 4 C ROTARY (AIR) 5 R AIR PERCUSSION	0-22.5 DIGGIN		DRILLERS	REMARKS			14	2237
NAME OF WELL	CONTRACTOR		LL CONTRACTO			51 1558	DATE RECEIVED	12 0	40
	l Water Supply	Ltd.	1558		OF INSPECTION	1 0 0 0	APR	13 13	94
₩ P.O. B	ox 490 Stitts	ville, Ontario	K2S 1A6	SE	NX 5				
	ler/ J. Moore	T T	0097/100		-				
SIGNATURE O	F TECHNICIAN CONTRACTOR	SUBMISSION DATE	0.2 yr.						
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21						
[OF OVERBURDEN AND BEDRO	26 CK MATERIAL	30 31 S (SEE INSTRUCTIONS)		47
GENERAL COLOUR	MOST	OTHER MATERIALS		GENERAL DESCRIPTION	DEPTH · FEE	T TO
Prom	CONMON MATERIAL	Silt and Stones		Wet	0	8
Brown Gray	Sand	Silt and Boulders	3	Wet	8	17
Gray	Hardpan	Boulders		Packed	17	20
Gray	Limestone	Black Layers		Medium HArd	20	113
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1 2 10 [41] WA		51 CASING & OPEN HOLE	RECORD	SIZE (S) OF OPENING 31-33 (SLOT NO)	DIAMETER 34-38 LENGT	
WATER FOUND AT - FEET	KIND OF WATER	DIAM MATERIAL THICKNESS	DEPTH FEET	W MATERIAL AND TYPE	INCHES DEPTH TO TOP OF SCREEN	FEET
78	□ FRESH 3 □SULPHUR □ SALTY 4 □MINERALS 6 □GAS	- CIGALVANIZED	0 24	<u>о</u>		FEET
15-18 ;	□ FRESH 3 □SULPHUR 19 4 □ MINERALS □ SALTY 6 □GAS	3 CONCRETE 4 OPEN HOLE 5 PLASTIC 17-18 19	20-23		CEMENT GR	_
20-23 124	FRESH 4 MINERALS		24 113	FROM TO MATERIAL 10-13 14-17	AND TYPE LEAD PACKER	
25-28 1	FRESH 3 DSULPHUR 4 MINEPALS	24-25 1 □ STEEL	27-30	23 0 Grout	ed Cement (7)
30-33 1	FRESH 3 SULPHUR 34 10	2 □ GALVANIZED 3 □ CONCRETE 4 □ OPEN HOLE		26-29 30-33 80		
PUMPING TEST M	ETHOD 19 PUMPING RATE	5 DELASTIC	······································	LOCATION OF W		
71 1 PUMP	² XI BAILER			GRAM BELOW SHOW DISTANCES OF W		
STATIC LEVEL	WATER LEVEL END OF PUMPING 22:24 15 MINUTES		LOT LU			
L JES	26-28	29-31 32-34 35-37 FEET FEET FEET				
IF FLOWING, GIVE RATE	38-41 PUMP INTAKE SET				:	
U IF FLOWING. GIVE RATE RECOMMENDED F	GPM PUMP TYPE RECOMMENDED PUMP	43-45 RECOMMENDED 46-49 PUMPING				
SHALLO	DW DEEP SETTING	FEET RATE GPM				Rd
FINAL	VATER SUPPLY	5 ABANDONED, INSUFFICIENT SUPPLY				
STATUS OF WELL	2 OBSERVATION WELL 3 Statest Hole 4 Recharge Well	ABANDONED POOR QUALITY				Shea
	55-56 1 DOMESTIC 5				t Test Wall #3	U.
WATER USE	3 IRRIGATION 7	MUNICIPAL PUBLIC-SUPPLY COOLING OR AIR CONDITIONING			#3	
		9 🗌 NOT USED		Flewellyn Rd	··	
METHOD						ļ
OF CONSTRUCT	ION A CTARY (REVERSE)	D JETTING D DRIVING DIGGING DOTHER		c	1422	255
NAME OF WEL		WELL CONTRACTOR'S	DRILLERS REMARK	58 CONTRACTOR 59-62 DATE REC	EIVED	63-68 80
Capita	l Water Supply Lt	1	DATE OF INSPEC	1558 M	AY 2 4 1994	
₩ P.O. E	ox 490 Stittsvil	le, Ontario K2S 1A6				
J. Moc	ELL TECHNIC AN	WELL TECHNICIAN'S LICENCE NUMBER TOO96				
	DETECHNICIAN / CONTRACTOR	SUBMISSION DATE DAY 31 NO 3 YR.14	OFFICE			
			I L		FORM NO. 0506 (11/8	6) FORM 9

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COUNTY OR DISTRICT		TOWNSHIP, BOROUGH.	CITY, TOWN. VILLAGE			CON BLOCK TRACT. SU			LOT 25-27
							9 DATE COMPL	-	24 **-53
		Mat M7,	heson Blvc	.east M		AC MASIN CODE	DAY 30	<u>мо 6</u>	yr <mark>94</mark>
1 2	M 10 12	17 18		25 26		30 31			47
	MOST	OG OF OVERBURD			TERIALS is	SEE INSTRUCTIONS)		DEPTH	- FEFT
GENERAL COLOUR	COMMON MATERIAL	OTHER	MATERIALS		G	ENERAL DESCRIPTION		FROM	то
Brown	Sandy Loon	•						0	5
Brown	Sand							5	12
Gray		vel & Boulder	8					12	17
Gray	Limestone		·					17	90
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						·			
31						┘└╍┙┤╵└		11.1.	
1 2 10 14	R RECORD						31-33 DIAMETER	34-38 10	75 80
	KIND OF WATER	INSIDE DIAM MATERIAL		DEPTH - FEET		(SLOT NO)		INCHES	FEET
10.11	RESH 3 USULPHUR ALTY 4 MINERALS	INCHES	INCHES		13-16 0	MATERIAL AND TYPE	D O	EPTH TO TOP F SCREEN	41-44 30
15-18 ¹ [] F	FRESH 3 SULPHUR	6 1/4 DISTEEL 3 CONCRETE 4 OPEN HOLE	•188	0	22	PLUGGI	NG & SEALII	NG RECO	
2 _ s	$\frac{3}{100} = \frac{3}{100} = \frac{3}$	5 DPLASTIC 17-18 1 DSTEEL 2 DGALVANIZED	19			PTH SET AT - FEET	MATERIAL AND T	VDE (CEMEN	T GROUT
2 🗌 S		6 42 OPEN HOLE 5 PLASTIC		22	90	10-13 14-17	Grouted C	ement (15)
2 🗌 S 30-33 1 🗍 F	BEEN 3 CSULPHUR 34 10	24-25 1 STEEL 2 GALVANIZED 3 CONCRETE	26		27-30	18-21 22-25			
	ALTY 6 GAS	4 DOPEN HOLE 5 DPLASTIC				26-29 30-33 8	0		
71 PUMPING TEST METHOD		1	5-16 17-18			LOCATION	OF WELL		
STATIC W	ATER LEVEL 25		OURS MINS		IN DIAGRAM LOT LINE	BELOW SHOW DISTAN INDICATE NORTH BY		OM ROAD AN	D
	22-24 15 MINUTES	30 MINUTES 45 MINUT			F	Iewelly	Rock		
	FEET FEE 38-41 PUMP INTAKE S		FEET FEET			,			
Secommended PUNP T	GPH YPE RECOMMENDED	7221	AR 2 CLOUDY						
G SHALLOW	PUMP	PUMPING FEET RATE	GPM						
54-	T					Tack	رال		
FINAL STATUS	1 D WATER SUPPLY 2 D OBSERVATION WELF 3 D TEST HOLE	5 🙀 ABANDONED, INS L 6 🗌 ABANDONED POO 7 🗍 UNFINISHED				X Test (¥4	· ·		
OF WELL	4 🗍 RECHARGE WELL	D DEWATERING							
WATER	1 🙀 DOMESTIC 2 🗋 STOCK 3 🔲 IRRIGATION	5 COMMERCIAL 8 MUNICIPAL 7 PUBLIC SUPPLY							+
USE	4 🗍 INDUSTRIAL	COOLING OR AIR CON 9 N	DITIONING OT USED						<u> </u>
METHOD	CABLE TOOL 20	-90 • 🗆 BORING							V
OF CONSTRUCTION	3 🗍 ROTARY (REVERSE) 4 🗍 ROTARY (AIR)	DETTING DETTING DETTING		-	Ferr	rbank			•
	S AIR PERCUSSION (DRILLERS		-		142	311
Capital W		LIC	LL CONTRACTOR'S ENCE NUMBER		5		ATE RECEIVED	4 1994	63-68 80
5 ADDRESS	ater Supply Li		_1558		FINSPECTION	1558	MUU Z	T 1334	
		WE	A6 LL TECHNICIAN'S ENCE NUMBER		s				
NAME OF WELL TI S.Miller/ SIGNATURE OF EC	J. Moore		097/T0096	OFFICE					
1 WKon	and	DAY 7 M	<u>7 _{yr} 94</u>	ö		,			

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COUNTY OR DISTRICT		TOWNSHIP, BOROUGH C	TY. TOWN. VILLAGE			CON . BL	OCK, TRACT, SUR	EY ETC		LOT 25-27
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			Pakenham						MO	••• ••
	LO	G OF OVERBURDE		S ZE OCK MA	TERIALS	(SEE INST	· · · ·		<u> </u>	47
GENERAL COLOUR	MOST COMMON MATERIAL	OTHER M	ATERIALS			GENERAL	DESCRIPTION		DEPTH	· FEET
Brown	Sandy Clay	· · · · · · · · · · · · · · · · · · ·				Wet			0	6
Gray	Sandy Clay	Grav	vel			Wet			6	16
Gray	Limestone								16	85
			<u>.</u>							
· · · · · · · · · · · · · · · · · · ·			· · · · · ·		····					
		· · · · · · · · · · · · · · · · · · ·								
31										
										L, L
41 WAT		INSIDE		RECORD	╷╶╴┤┃╫	SIZE(S) OF (SLOT NO	OPENING I	31-33 DIAMET	ER 34-38 1	ENGTH 39-40 Feet
10-13	FRESH 3 SULPHUR SALTY 4 MINERALS	DIAM MATERIAL INCHES MATERIAL	THICKNESS INCHES FI	ком О	¹⁰ 22 22		AND TYPE		DEPTH TO TOP OF SCREEN	41-64 30 FEET
48	FRESH 3 DEULPHUR 19	6 1/4 2 GALVANIZED 3 CONCRETE 4 OPEN HOLE 5 PLASTIC	•100	U		i1]	PLUGGIN	G & SEAL	ING RECO	
20-23		17-18 1 □ STEEL 2 □ GALVANIZED 3 □ CONCRETE	19			FROM	TO	MATERIAL AND		NT GROUT CKER, ETC }
25-28 1	GAS 1 FRESH 3 □ SULPHUR 29	5 1/8 4 OPEN HOLE 5 OPLASTIC	26	22	85	20 ¹⁰⁻¹³ 18-21	14-17 0 22-25	Frouted	Cement	(6)
30-33 1	FRESH 3 CSULPHUR 34 10	1 STEEL 2 GALVANIZED 3 CONCRETE 4 OPEN HOLE				25-29	30-33 80			
PUMPING TEST MET		5 D PLASTIC	PUMPING				CATION (······	
71 · □ PUMP STATIC	WATER LEVEL 25	<u>З сри 1</u> но	-16 17-18 DURS MINS		IN DIAGRAM		HOW DISTANC			ND
	END OF WATER LEV PUMPING 22-24 15 MINUTES	30 MINUTES 45 MINUTE	S 60 MINUTES	\mathbf{A}	LOT LINE		E NORTH BY A			-
	26-28 67 FEET 67 FEET 38-41 PUNP INTAKE SE	67 667	2-34 35-37 FEET 67 FEET							
	GPM	FEET 1 D CLEA	R 2 CLOUDY							
SHALLOW	PUMP	43-45 RECOMMENDED PUMPING 75 FEET RATE	а 46-49 З ^{срм}				- Ju	<i>II</i>		
jo-53	34 1			5		-	Test We #5 X	<<		
FINAL STATUS	V WATER SUPPLY COBSERVATION WELL COBSERVATION WELL	\$ 🗌 ABANDONED, INSU \$ 🗍 ABANDONED POO 7 🔲 UNFINISHED		#				1		
OF WELL	4 RECHARGE WELL	DEWATERING		0.0				1		
WATER	2 STOCK 3 IRRIGATION	6 D NUNICIPAL 7 D PUBLIC SUPPLY								+
USE	4 [] INDUSTRIAL	COOLING DR AIR CONT			-	Flew	elyn T	र४		Road
METHOD	1 CABLE TOOL 20.	5-85 · D BORING	·							3 12
OF CONSTRUCTIO	3 ROTARY (REVERSE) 4 ROTARY (AIR) 5 AIR PERCUSSION O-	JETTING DRIVING DRIVING DIGGING	OTHER						147	733
NAME OF WELL C		WEL	L CONTRACTOR'S			58 CONTRA		DATE RECEIVED		63-68 80
Capital	Water Supply Li		1558		E	1	558	OCT	0 7 1994	
P.O. BO	x 490 Stittsvi	WEL	25 1A6		ĸs					
NAME OF WELL S.Mille	THINICIAN/CONTRACTOR	LICI	ENCE NUMBER 097/T0096	FFICE						
AT	manch	DAY MO	<u>98 yr 94</u>	OFI			· <u> </u>			
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Ontario Ministry of Environment and Energy

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

The Ontario Water Resources Act WATER WELL RECORD

Mark correct bo	w with a checkmark,	where applicable	9.	11 1 2	- 1 9	5294	17	Municipality Co	0.N:	22 21 24
County or District			Township	/Borough/City/	Town/Villag	e		Con block tract surv	ey, etc. Loi	25-27
Ottawa C Owner's surname		First name	Address	lbourn		·		9		24
Technica	1 Dimensions			Antare	s Dr.	Nepear	n,Ontario	K2E 7W5 ^{ompleted}	2 4 day 5 m	44-53
21		U Zone Easti	ng	Northing		RC Ele	vation RC	Basin Code ii		iv
1 2		10 .12	OVERBURDE				(see instructio	31		47
General colour	Most common	material	Ot	her materials			General o	description	Dep	oth – feet To
Brown	Sand						Fi	11	0	2
Brown	Sand			Gravel				cked	2	5
Gray	Limesto	ne						oken	5	8
Gray	Limesto						Ha		8	129
Water found at - feet	Solbe 4 Minerals	51 Inside diam inches 6 1%4	CASING & Material Steel 12 Galvanized	OPEN HOLE Wall thickness inches •188	43 ERECORI Depth - From		Sizes of ope (Slot No.) Material and	i	34-38 Length nches Depth at top of	feet
	Fresh 3 Sulphur 1	9 4	Concrete				0,			feet
92 -	Salty 4 Gas	17-18 1	Plastic Steel ¹⁹			20.53		PLUGGING & SEALIN		
	Salty 6 Gas	31	Galvanized Concrete		22	129	Depth set at - fe	et Material and type (Co	Abandonme	
25-28 1	Salty 4 Minerals	9 51	Plastic				From T 10-13 20	14-17 Grouted Ce		
	Fresh 3 □ Sulphur 3	4 60 3	Galvanized		1	27 30	18-21	22-25	lePluq	
2 🗋	Salty 4 Minerals 6 Gas		Open hole				26-29	30-33 80		
Pumping test me	ethod na Pumping ra	ate 11-14 D	uration of pumpin	g	· · · · · · · · · · · · · · · · · · ·		LOCA			_
Statia Javal Wa	ater level 25			Recovery		In diagram	below show dis	stances of well from roa	ad and lot lin	e.
	22-24 15 minutes 28	30 minutes 4		0 minutes 35-37				yn Road.		
5 10 feet	70 feet 37 fee	et 60 feet	20 fg-t	70 feet				qui noad.		
19 21 10 feet If flowing give rat Recommended p	te 38-41 Pump intak GPM	e set at feet	Vater at end of test	t 42 Marcloudy						
	pump settir	ng p	lecommended ump rate	46-49						
50-53	Deep	120et		4 GPM			-			
FINAL STATUS , Water supp 2 Observation 3 Test hole 4 Recharge w	bly ₅ ☐ Abando n well 6 ☐ Abando 7 ☐ Abando		bly 9 D Unfinishe 10 Replace		کن			House	5 77 8"	roplarmood
ATER USE		ercial Dal	9 🗌 Not used 10 🗌 Other					G		Popla
METHOD OF CO	s 🗋 Air perc	cussion	9 🗌 Driving				rot	r * 15		
2	rerse) 7 🗌 Diamor	nd	10 🗌 Digging 11 🔲 Other					17	7 564	γ
	a 2 00.011g							⊥ (504	ر
Name of Well Contrac			Well Contractor	s Licence No.	Jata source		8 Contracctor	59-62 Date rece	· · ·	63-68 80
Capital W Address P.O. Box Name of Well Technic	Ater Supply	ille, Onta	1558 urio K2S	126	S Sate c	of inspection		58 JUN	2 / 19	97
W. Kavana	ah		TOO95	s ∟icence Nö.	AUT Semai	rks			q	1
	an/Contracto		Submission date day 26mo 5		INIW			χ.	_	Ľ
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COUNTY OR DISTRICT		TOWNSHIP BOROUGH. CITY. TOWN VILLAGE	W CON BLOC		LOT 4-27
OWNER (SURNAME FI	RST) DIMERSIONS	ADDRESS	es Naran Ond.	KE HOS DATE COMPLETED	ID y St
21				SUBDIVISION SUB	ØT#3
	L	DG OF OVERBURDEN AND BEDR	OCK MATERIALS (SEE INSTRU	JCTIONS)	
GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DE	SCRIPTION FROM	TH FEET
BROWN	SAND	SANDY CLAY FILL		0	5
COLT	JANIS	BOULDERS		17.	10
GREY	WINESTONE.	SHAIF		70	TB
	· · · ·				
		<u></u>			
		· · · · · · · · · · · · · · · · · · ·			
31 32	<u>╷╷╷╷╷╷╷╷</u>	<mark>┶┶┶┶┶┙┕┰┎┍┙┆╻╽╻╽╻</mark>	┚└ ╷╷╷╎╎╷╽╷╎╷╎╷╎		
	TER RECORD	51 CASING & OPEN HOLE	RECORD	PENING 31-33 DIAMETER 34-38	75 80 LENGTH 39-40
WATER FOUND AT - FEET 10-13	KIND OF WATER	INSIDE WALL DIAM MATERIAL THICKNESS INCHES INCHES	DEPTH - FEET	INCHES ND TYPE DEPTH TO TOP OF SCREEN	FEET 41-44 30
40 100	FRESH 3 DSULPHUR 4 DMINERALS	10-H 1 STEEL 12 2 GALVANIZED 3 D CONCRETE	13-16 U		FEET
6 not	FRESH 3 DSULPHUR A MINERALS SULTESTED CRESH 3 DSULPHUR 24	04 3 CONCRETE 4 □ OPEN HOLE 5 □ PLASTIC 17-16 1 □ STEEL	20-23 DEPTH SET AT	MATERIAL AND TYPE	MENT GROUT
2	SALTY 6 GAS	TB CONCRETE 4 COPEN HOLE 5 PLASTIC	9 3 4 ¹⁰⁻¹³	TO LEAD	PACKER, ETC)
2	4 MINERALS	24-23 2 GALVANIZED 3 CONCRETE	27-30 18-21	22-25	
	4 D MINERALS 3 SALTY 6 GAS	4 DOPEN HOLE 5 DPLASTIC	26-29	30-33 40	
71 PUNPING TEST NET	THOD 10 PUMPING RATE	11-14 DURATION OF PUMPING 5 GPM 15-16 3017-18 HOURS 30 MINS	LOCA	ATION OF WELL	
	PUNPING	EVELS DURING 2 C RECOVERY		OW DISTANCES OF WELL FROM ROAD	AND M
5 "	ZI FEET 15 MINUTES	30 MINUTES 45 MINUTES 60 MINUTES 45 MINUTES 71 32-34 71 75-37 45 MINUTES 72 71 75-37 71 75-37 75 75 75 75 75 75 75 75 75 75 75 75 75		Flewellyn Rd	211
U FEET IF FLOWING, GIVE RATE C RECOMMENDED PU	SO-41 PUMP INTAKE S	SET AT WATER AT END OF TEST 42	Bostariue	150r.] "	
	. PUMP	43-45 RECOMMENDED 46-89 PUMPING		<u>/</u>	
50-53	JEEP SETTING		Well	t I	
FINAL STATUS	WATER SUPPLY 2 OBSERVATION WEL		13 77	777-31	
OF WELL	3 TEST HOLE 4 RECHARGE WELL	7 UNFINISHED DEWATERING		pusse 1	
WATER	¹ DOMESTIC ² STOCK ³ IRRIGATION	COMMERCIAL MUNICIPAL PUBLIC SUPPLY		2, 1	
USE	4 🗋 INDUSTRIAL	COOLING OR AIR CONDITIONING		f3	
METHOD	57 CABLE TOOL 2 ROTARY (CONVENT	BORING 7 DIAMOND			
OF CONSTRUCTIO	3 🗌 ROTARY (REVERSE) B JETTING 9 DRIVING	Woodside Acres	Jubdillison 15	0477
NAME OF WELL		DIGGING DOTHER	DRILLERS REMARKS	TOR 59-62 DATE RECEIVED	63-61 40
ADDRESS	DN RILLIN 29, Paknhe	GINC 400	ATE OF INSPECTION	375 JUN 2 4 19	97
	19, Paknha	am, UNT. KUAZKO WELL TECHNICIAN'S			A.
SIGNATURE OF	TEMPCIAN/CONTRACTOR	SUBMISSION DATE	OFFICE		X
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Ontario	rironment	SPACES PROVIDED		15294		CON.	
COUNTY OR DISTRICT	2. CHECK 🗵 CORF	TOWNSHIP, BOROUGH CITY.	11 TOWN. VIELAGE		IO CON BLOCK TRACT. SURV	14 15 22 2 EY ETC LOT 25	<u>29</u>
OTTAWA -	CARLEDN RST.) 24-47	ADDRESS			contess		
TECHNIKA	NMENSIONS	INC. 850-36	Antons	, Nepan,	, Ort. KRE FW.	5 DAY 25 MO 10 9	6
$\begin{bmatrix} 21\\ 1 & 2 \end{bmatrix}$	ZONE EASTING	NORTHING			450501510	Susiat #8	
	L	OG OF OVERBURDEN	AND BEDRO	CK MATERIAI	LS (SEE INSTRUCTIONS)		
GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATE	RIALS		GENERAL DESCRIPTION	DEPTH - FEET FROM TO	
BROWN	STAD					07	
GREY	SAND	BOUNDERS				74	
GREY	TILL	BOULDERS				14 21	
GREP	LIMESTRE	SHALE		BRUM	EN (Z3)	71 71	
					······		
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					SIZE (S) OF OPENING	55 75 31-33 DIAMETER 34-38 LENGTH 3	80 80 9-40
WATER FOUND	KIND OF WATER	51 CASING & O	WALL	ECORD		INCHES	FEET
10.13	FRESH 3 SULPHUR	INCHES	THICKNESS INCHES FRU	то то 13-15	S MATERIAL AND TYPE	DEPTH TO TOP 41-44 OF SCREEN FEET	
	FRESH 3 DSULPHUR 4 DMINERALS	04 1 STEEL 12 GALVANIZED 3 □ CONCRETE 4 □ OPEN HOLE 5 □ PLASTIC	.183 +3	3 31	61 PLUGGIN	G & SEALING RECORD	
20-23 1	□ SALTY 6 □ GAS □ FRESH 3 □ SULPHUR 24 □ SALTY 4 □ MINERALS	17-18 1 🗆 STEEL 1 2 0 GALYANIZED		20-23	DEPTH SET AT FEET	MATERIAL AND TYPE (CEMENT GROUT LEAD PACKER ETC.))
25.24	☐ 58217 6 ☐ GAS	3 CONCRETE 4 COPEN HOLE 5 CPLASTIC	31		4 10-13 3/ 14-17 C	rout	
10.11	4 [] MINERALS 3 SALTY 6 [] GAS 3 FRESH 3 [] SULPHUR 34 00	24-25 26 1 DSTEEL 2 DGALVANIZED 3 DCONCRETE	-	27-30	18-21 22-25 26-29 30-33 40	·	
2 [3 SALTY 6 GAS	4 UOPEN HOLE 5 DPLASTIC					
71 PUMPING TEST ME	THOD 10 PUMPING RATE	5 11-14 DURATION OF PUN 5 GPM HOUR	17-18		LOCATION	DF WELL	
STATIC LEVEL	WATER LEVEL 25 END OF WATER L PUMPING		UMPING	IN DIA		ES OF WELL FROM ROAD AND RROW.	
TEST + Z	H 22-24 IS MINUTES	30 MINUTES 45 MINUTES 129-31 45 MINUTES 32-30	60 MINUTES		Subot#8 1		
S IF FLOWING GIVE RATE	T FEET FEI 30-41 PUMP INTAKE	ET FEET FEE SET AT WATER AT END OF					
GIVE RATE	GPM GPM RECOMMENDED	F CC I	2 🗶 CLOUDY 46-49	11	House of		
D SHALLOW	N X DEEP SETTING		5 срм		ENO I		
<u> </u>	54 . Ard				· · · · · · · · · · · · · · · · · · ·	Lew 1	
FINAL STATUS	1 Water Supply 2 OBSERVATION WEI 3 TEST HOLE	5 🗌 ABANDONED, INSUFF L 6 🗍 ABANDONED POOR Q 7 🗍 UNFINISHED			Well	Ч	
OF WELL	RECHARGE WELL S-56 DOMESTIC	DEWATERING			R		
WATER	2 STOCK 3 IRRIGATION	6 MUNICIPAL 7 DUBLIC SUPPLY					
USE	4 DINDUSTRIAL	COOLING OR AIR CONDIT 9 NOT 8			Poplerwoods		
METHOD	57 CABLE TOOL	6 🛛 BORING FIONAL) 7 🗋 DIAMOND		17	which Anon		
	ON S AIR PERCUSSION) P D JETTING 9 D DRIVING		M M	MARE AUCS	15047	a
NAME OF WELL	CONTRACTOR	WELL	OTHER	DATA		DATE RECEIVED 63-68	
ADDRESS	en DRILLING 19, Pallenha	INC 48	B B B B B B B B B B B B B B B B B B B	NO DATE OF INSPEC	4875	JUN 2 4 1997	\bot
ADDRESS	19, Kalchha	m, Ont. 40	120			h	
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O SIGNATUR OF	I A THAT	2 SUBMISSION DATE DAY 31 NO	0.96	OFFICE		css. s J	
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21		⊥⊥, 4	CI COLONICA	24 25	26	30 3				<u> </u>
GENERAL COLOUR	MOST	GOFO	OTHER MATERIALS				DESCRIPTION			H · FEET
BROUN-GE	COMMON MATERIAL									B
BRAW	TILL		· · · · · ·						B	10
GREY	A IMESTONE								10	120
RED-GREY	SHALE								170	152
GREEN				·						
			·							
	1			·			· · · · ·			
							·			
31										
										75 80
41 WAT		51			ECORD		F OPENING ,	31-33 DIAMET	1NCHES	FEET
AT - FEET		DIAM INCHES	MATERIAL THICK		M TO 13-16		AND TYPE		DEPTH TO TOP OF SCREEN	41-44 30 FEET
TJ (logsm)	FRESH 3 SULPHUR	- 44	12 STEEL 2 GALVANIZED 3 CONCRETE 4 OPEN HOLE	8" +2	20	61	PLUGGIN	G & SEAL	ING REC	
NO(240m)	SALTY A MINERALS GAS FRESH 3 USULPHUR	04 	5 DPLASTIC		20-23	DEPTH SET	AT - FEET	MATERIAL AND	TYPE CEN	IENT GROUT . PACKER, ETC)
HB (5+gm)	SALTY 6 GAS	5B	2 GALVANIZED 3 CONCRETE 4 OPEN HOLE 5 PLASTIC	- 2) 152	3 10-13	20 0	mut		
2	4 - MINERALS	24-2			27-30	18-21	22-25			
1 I I I] FRESH 3 □SULPHUR 4 □ MINERALS] SALTY 6 □ GAS		4 DOPEN HOLE 5 DPLASTIC			26-29	30-33 80			· · ·
71 PUMPING TEST MET		6	II-14 DURATION OF PUMPING	2 17-18 MINS		LO	CATION	FWEL	L	
STATIC	WATER LEVEL 25 END OF WATER LE PUMPING	VELS DUR		NG	IN DIA LOT LI		SHOW DISTANCE ATE NORTH BY AI		FROM ROAD	AN D
TEST TEST	22-24 IS MINUTES	30 MINI	29-31 32-34	0 MINUTES 35-37	. 5.10	(At 17.		Hevel	unla.	
IF FLOWING GIVE RATE	38-41 PUMP INTAKE SI		FEET FEET WATER AT END OF TEST	FEET 42	1	<u>01.0</u>	1		₽ <u>~</u> ~	
C FLOWING. GIVE RATE			13-45 RECOMMENDED	CLOUDY 46-49	1 Ho	use 1				
G SHALLOW	DEEP SETTING	[10	FEET RATE 5	GPM	1 Ville		2b'			
FINAL	1 WATER SUPPLY	5 (ABANDONED, INSUFFICIEN	NT SUPPLY		D' Wall				
STATUS	2 OBSERVATION WELL 3 [] TEST HOLE	7 [] ABANDONED POOR QUALI] UNFINISHED	τ¥		J. JAA.	.) 1			
OF WELL	4 C RECHARGE WELL		DEWATERING	· · · ·	<u></u>		+		A	
WATER USE	2 STOCK 3 IRRIGATION 4 INDUSTRIAL	7 🗆 P	UNICIPAL UBLIC SUPPLY DOLING OR AIR CONDITIONIN	NG			looph es Subdivi	avor	<u>Jr</u>)	
USE	D OTHER		⁹ 🗌 NOT USED		Å.	<a a.<="" td=""><td>511</td><td></td><td></td><td></td>	511			
METHOD	57 1 CABLE TOOL 2 CABLE TOOL 2 CONVENTI	ONAL)	6 🗋 BORING 7 🔲 DIAMOND		Wood	NON HOI	es Judaini	5101		JL.
	3 🔲 ROTARY (REVERSE)		JETTING DRIVING DIGGING 0	THES		_			15	0478
NAME OF WELL				THER	DRILLERS REMARK	S S8 CONT	RACTOR 59-62	DATE RECEIVED		63-61 40
HO STANT	ON BRILLING	M	C 487	5	SOURCE	4	875	JUN	2 4 19	
Box 2	19, Pakenham	,0	N. KOAZX	0	SE (-A-
NAME OF WELL	V.A. Ster	m	WELL TECH	HNICIAN'S						
U SIGNATURE O	RAN STO		SUBMISSION DATE	? A	OFFICE					`
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Ontario	Ontario	

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The Ontario Water Resources Act WATER WELL RECORD

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

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County or Distric	t	Township/Borough/City	/Town/Villag	e		Con block	tract survey	etc. Lo	t 25-27
Ottawa Ca		Goulbo	ourn				9		24
Owner's surname		Address	- •			_	Date		43-53
	l Dimensions	sting K2E 7W5Northing	<u>es Driv</u>		ean,Ontar	io Basin Code	completed 3	<u>day 6 m</u>	onth 97 year iv
21	M 10 12		<u>24</u>	_25 _ 26					
	LOG O	F OVERBURDEN AND BEI	DROCK MA	TERIALS	(see instruction	ons)			
General colour	Most common material	Other materials			General	lescription		De From	oth - feet To
Brown	SAnd				Fil	1		0	2
Brown	Sand	(Creare)							
_		Gravel			Pac			2	5
Gray	Linestone				HAr	d		5_	110
Brown	Limestone				Med	ium .		110	139
Gray	Limestone				Har	d		139	155
					· ···				
		<u> </u>			· · · · · · · · · · · · · · · · · · ·			<u> </u>	
31					i				
			43		54		<u>65</u>		75 80
Water found	FER RECORD 51 Kind of water Inside diam	CASING & OPEN HOL	E RECORI Depth -		Sizes of ope (Slot No.)	ning 31	-33 Diameter	34-38 Lengt	n 39⊢40
at feet	Fresh 3 Sulphur 14	Material thickness inches	From	То	Material and	type		hes lepth at top o	feet
92 ²	Salty 6 Gas	1 Steel 12 2 Galvanized 3 Concrete	0	25"	S			oput ut top o	41-44
	Fresh 3 Sulphur 19	Gordinette Open hole Plastic							feet
14.3	Fresh 3 Sulphur 24	1 🗌 Steel 19 2 🗍 Galvanized		20-23		PLUGGING	i & SEALING	Abandonme	
152 20	Salty 6 Gas 5 7/9	3 □ Concrete 4 ☑ Open hole	25	155	Depth set at – fe From		al and type (Cem	ent grout, ber	ntonite, etc.)
	Salty 4 Di Minerals	5 Plastic 1 C Steel 26			10-13 20	14-17	uted Cen	ont (1	,
10 33	Fresh 3 🗆 Sulphur 34 60	2 Galvanized 3 Concrete		27 30	18-21	22-25		e Pluq	(1)
	Salbe 4 🗋 Minerals	Open hole S Plastic			26-29	30-33 80		~ ~ ~~~	~~/
Pumping test me	ethod 10 Pumping rate 11-14	Duration of pumping							
w	X Bailer 6 GPM	.] Hours Mins	$ \Lambda$	In diagram	below show dis	TION OF N		and lot lin	
Static level en	ad of pumping Water levels during	Pumping 2 Recovery	$ \mathcal{D} $	Indicate no	orth by arrow.		ren nom road	and lot in	
19-21 27 feet If flowing give rai	22-24 15 minutes 30 minutes 26-28 29-31	45 minutes 60 minutes 32-34 35-37	$ \wedge $	1					
27 feet	80 feet 58et 67 feet ite 38-41 Pump intake set at 1	78 feet 80 feet Water at end of test 42			Lot # 1		-		
A N	GPM feet	🗆 Clear 🧏 Cloudy				,			
	pump setting	Recommended 46-49 pump rate			steps-				
50-53	x Deep 130 feet	5 GPM		00	34" A 5	Hous	e		
FINAL STATUS		ummha 🗇 llaff-istad		a "					
Provident Support of Contraction 1 and 1	bly 5 Abandoned, insufficient s on well 6 Abandoned, poor quality 7 Abandoned (Other)	10 Replacement well		$\sqrt{2}$	13'5"	L			
				ğ			_		
WATER USE	55-50			2			Acre Acre	e	
1 Domestic 2 D Stock 3 D Irrigation	5 Commercial 6 Municipal 7 Public supply	9 🛛 Not used 10 🗋 Other		10			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
₄ □ Industrial	8 Cooling & air conditioning	1		õ			$\int c e^{e^{i \theta}}$	5	
METHOD OF CO				N I			1-10		
1 📮 Cable tool 2 📅 Rotary (col	5 🗌 Air percussion nventional) 6 🗌 Boring	g 🗋 Driving 10 🗌 Digging		<u> </u>	0 0	-			
3 □ Rotary (rev A □ Rotary (air)	/erse) 7 Diamond	11 Cother	1 Fle	welly	n Road		17	565	n
							<u> </u>		
Name of Well Contra		Well Contractor's Licence No.	Jata source	54			Date receive		63-68 80
Capital Wa	ater Supply Ltd.	1558	NO	f inspection		5 <u>8</u>	JUL	1 5 19	97
P.O. Box 4	190 Stittsville,Onta	rio K2S 1A6	ISN						
Name of Well Technic	cian	Well Technician's Licence No.	Sate o	ks				Ń	
W. Kavanac Signature of Technicia	an/Contractor	T0095 Submission date	INIS					Ų	5
1 the	mil	day 4 mo 6 yr 97	Σ						2
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	Ministry of Environment and Energy
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The Ontario Water Resources Act WATER WELL RECORD

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County of District			1 2			10	14 15	22 21 24
County or District		Townshi	p/Borough/Cit		•	Con block	tract survey, et	
Ottawa Ca Owner's surname		Address	Goulbo	urn			9	23
				- Duda			Date completed	43-53 C
, 	u Zone	Easting	5 Antare Northing	S Drive	RC Elevation	RC Basin Code	16 y	6 month 97 ear
12	M 10	12 17	18		25 26	30 31		<u> i i i i i i i i</u> i
	LOG	OF OVERBURD	EN AND BE	DROCK MA	TERIALS (see ins	structions)		
ieneral colour	Most common material	0	ther materials		G	eneral description		Depth - feet
_							<u> </u>	rom To
Brown	Sand					Fill		0 2
Brown	Hardpan	Bot	lders			Packed		2 5
~~~··	•							
Gray	Limestone			······		Hard		5 57
Gray	Limestone					Medium		57 155
						<u> </u>		
			•					
	ER RECORD 51	CASING &	OPEN HOL			tes of opening 3	65 1-33 Diameter 34-38	75 80 Length 38-40
er found feet	Kind of water	Material	Wall thickness	Depth –		ot No.)		
	Fresh 3 Sulphur 14		inches	From	To Z2 S Ma	terial and type	inches	at top of screen 30
	Salty 4 Gas 6 1%	4 1 Steel 12 2 Galvanized	<b>.</b> 188	0	22 0	icina and type	Deput	41-44
	Fresh 3 🛛 Sulphur 19	3 🗋 Concrete 1 🗋 Open hole						feet
30	Salty 6 Gas	5 Plastic			61	PLUGGING	à & SEALING RE	ECORD
20-23 1	Fresh 3 Sulphur 24:				20-23	Annular space	Aba	andonment
49	Sally 6 Gas 57	3 □ Concrete 3 4 🕱 Open hole		22	155 Depth s	set at – feet To Materi	ial and type (Cement g	rout, bentonite, etc.)
	resh 29	5 Plastic			10-	13 14-17		
	6 Gas 24 25	2 🗍 Galvanized			27-30 20	5 Gro	uted Cemen	
	Fresh 3 Sulphur 34 60 Solbr 4 Minerals	3 ☐ Concrete 4 ☐ Open hole				29 30-33 80	Hole I	Plug (1)
2 []	Salty 6 Gas	5 C Plastic						
Pumping test me	thod 10 Pumping rate 11	14 Duration of pumpi	ng	]				
Pump 2		M <b>1</b> Hours	Mins			LOCATION OF		
	ater level d of pumping		Recovery		n diagram below s ndicate north by a	how distances of rrow.	well from road an	d lot line.
19-21	22-24 15 minutes 30 minutes		60 minutes		· · · · · · · · · · · · · · · · · · ·			
10.		-31 32-34	35-37	$\parallel$ $\setminus$			de	
12eet		et <b>98</b> feet Water at end of te	100eet st 42	`	$\mathbf{i}$	20	Acres.	
		et 🗌 Clear	Cloudy		$\mathbf{i}$		~ 5ers	
Recommended p	ump type Recommended 43 pump setting	45 Recommended pump rate	46-49		<u>)</u>			
Shallow	Deep 130 fe		d GPM		<i>K</i> i			
0-53					$(\mathcal{A})$			
		tsunnly a 🗆 Unfinis	hed					
Water supp	n well 6 Abandoned, poor qual 7 Abandoned (Other)	ty 10 🗌 Replac				· · · · · · · · · · · · · · · · · · ·	~ ~	
3 □ Test hole 4 □ Recharge w	vell 8 Dewatering				g	Lot 19		
					ð	1		
TER USE	55-56 s 🗋 Commercial	9 🗌 Not use	ed		-11	. Xell F		
2 Stock 3 I Irrigation	6 🔲 Municipal 7 🔲 Public supply				بر الأكام الأ	cutal 6 -		
4 🗋 Industrial	8 Cooling & air condition	ing			101	i ciril	30'7"	
					41	187	× 30 '	
	57 5 C Air percussion	9 🗌 Driving		_		>		
2 Cable tool 2 Rotary (con 3 Rotary (reve	erse) / Diamond	10 🛛 Digging	1		Palar	Ward Dia	CP-	
₄ □ Rotary (air)		11 Li Uther			iopini	wood Pla	~~ 1750	657 I
					· · · · · · · · · · · · · · · · · · ·			·
ne of Well Contrac	tor	Well Contracto	r's Licence No.	≻. Data	58 Contra		9-62 Date received	63-68 80
apital W	ater Sumly Ind	1558			1	558		5 1997
	ater Supply Lyd.				inspection	Inspector	<u>+ + + + + + + + + + + + + + + + + +</u>	- ·**!
O. Box	490 Stittsville, On	tario K2S	186	ISN ALLSININ				<u> </u>
	/		n s Licence No.	Pemari	ks			$\mathcal{C}$
Kavanak		T0095 Submission da	te	NIS.				Ù
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	unty or Distr	**. *	<u> </u>			Township	/Borough/City	/Town/Villag	le		Con blo	ock tract survey	v, etc. L	.ot 25-27
	<b>ttawa</b> ( vner's surna	Carleton	. Fire	t name	<b>م</b> د، به	Goul	bourn				9			24
		al Dimen		Tame			36 Anta	aros D	r Nono	an Ont		Date completed	23 day	7 97 month year
21			υ Zα	one E	asting	K2E 7	<b>5</b> Northing			vation R	Basin Coo	le ii	iii	month <b>year</b>
1	2	<u></u>	M 10	L.: L		17	18	24	25 26	30	31			47
-	eneral colou	Masi	t common mater		JF OVE		EN AND BEE	DROCKM	AIERIALS		•		D	epth – feet
		WOS								Gene	ral description	1	From	To
B	rown	Sand			Gr	avel			fil	1			0	4
B	rown	loam							100	se			4	5
G	rey	line	stone						har	đ			5	48
_G	rey	line	stone		hr	own la	avore		med	-			48	130
	1					<del>own 1</del>	ayero		Dett	l lati				
								······						
			·····, ····, ··· ,							- ·#		1		
at -	er found feet 90 ¹⁰⁻¹³		ater Sulphur 14 Minerals Gas	51 Inside diam inches 6 10/1	Ma 1 5 5t 2 1 6a 3 0 Ca 4 0	iterial teel 12 alvanized oncrete pen hole	OPEN HOL Wali thickness inches • 188		D - feet To 20 13-16		f opening b.)		34-38 Len ches Depth at top	gth 39-40 feet 0 of screen 30 41-44 feet 1
-	2			1718	5 🗆 Pi				20-23	61		NG & SEALIN		
			Sulphur 24 Minerals Gas			alvanized oncrete				Depth set a	Ms	terial and type (Cen	Abandonr	
		🛛 Fresh 😗 🗌	Sulphur ²⁹ Minerals	6 1/8	5 4 <b>b≩ O</b> r 5 □ Pi	pen hole lastic		22	130	From 20 ¹⁰⁻¹³	14-17	•		
		<u> </u>	Gas	24-25		alvanized			27-30	18-21	22-25	routed ce	aenc (	<u></u>
			Sulphur ³⁴ ⁶⁰ Minerals Gas			pen hole				26-29	30-33 80			
				L			I	·			<b></b>			
71	Pumping test	2 <b>X</b> Bailer				ion of pumpi <b>]</b> Hours	ng Mins				CATION C	•	20 #	
	Static level	Water level end of pumping	²⁵ Water levels	during 1	🕱 Pumpi	ing 2	Recovery			orth by arrow		of well from roa	d and lot	line.
PUMPING TEST	¹⁹⁻²¹ 18 _{feet}	22-24 <b>41</b> feet	15 minutes 26-28 <b>39</b> eet	0 minutes 29- <b>41</b> fee	1 41	32-34	60 minutes 55-37 <b>41</b> feet	1						
NIN	If flowing give	erate 38-41 GPM	Pump intake set	at fei		at end of te ⊡Clear	st ₄₂ □Cioudy	X		La	st. 42			
2	Recommende	ed pump type	Recommended pump setting	43		nmended	46-49				(Let)			
	Shallow	👷 Deep		<b>00</b> fee			5 дрм			, ¹			7	
FIN	AL STAT	le	54 5 Abandoned, 6 Abandoned, 7 Abandoned 8 Dewatering	poor quali		□ Unfinis □ Replac				45 G	11045	E	ood Koa	
WA	TER USE	'n	55-56 5 Commercial 6 Municipal 7 Public supp 8 Cooling & ai	ly	10	☐ Notuse ☐ Other.	ed	Woo	dside				op larwood	
ME		CONSTRUC ool 20-130 (conventional) (reverse)	TION 57 ) 12 Air percussion 6 Boring 7 Diamond	∘n <b>0–2</b>	9 10	Driving					ellun	Road		

3 □ Rotary (reverse) 7 □ Diamond 4 □ Rotary (air) 8 □ Jetting	10 Cother		F 1.	ewellyn	^{Road} 17	5680
Name of Well Contractor	Well Contractor's Licence No.	Data source	58 Contra		59-62 Date receive	
Capital Water Supply Ltd.	1558	Date of in:	spection	I 5 5 8 Inspector	AUG	1 4 1997
Box 490, Stittsville, Ont. K2S	146	S		-	* 	
Name of Well Technician	Well Technician's Licence No.	Remarks				<u>^</u>
W. Kavanagh	T0095	IST				Q
Signatury of Techniciary Contractor	Submission date day 22 mo 7 yr 97	NW		5 		

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Print only in spaces provided. Mark correct box with a checkma County or District Ottawa Carleton Owner's surname 28-47 Technical Dimension 21 General colour Most comr	First name	11         1         1         1         1         1         2         Township/Borough/City/To         Goulbo         Address         850–36         Antaces         K2E         7W5         Northing         1         1         1         1         1         1         1         1         1         1         1         1	ourn	Municipality Cc 15003 Ci 10 IA Ci 15 Con block tract surv 9 Date	<u>ON</u> <u>22</u> 23 24
Ottawa Carleton Owner's surname 28-47 Technical Dimension	2012 Zone Easting	Goulbo Address 850-36 Antares K2E 7W5 ^{Northing}	ourn	9	
Owner's surname   28-47     Technical Dimension     21	2012 Zone Easting	Address 850–36 Antares K2E 7W5 ^{Northing}		I	24
21	U Zone Easting	K2E 7W5 ^{Northing}	Drive Nepean (		48-!3
2		17 18		RC Basin Code	7 day 8 month 97year
General colour Most comr		CODUDDEN AND DEDD		30 31	47
General colour Most comr	non material		OCK MATERIALS (see in		Depth – feet
		Other materials		General description	From To
Brown Band				Fill	0 2
Brown Loam		Gravel		Packed	2 7
Gray Lime	stone			Hard	47 175
Gray Lime	stone	Brown Layers	3	Medium	4/ 1/3
31       10       14       15         41       WATER RECORD         Water found at - feet       Kind of water         10-13       1       Fresh       3       Sulp         96       2       Satty       6       Gas         15-18       1       Fresh       3       Sulp         142       2       Satty       6       Gas         169       2       Satty       6       Gas         20-23       1       Fresh       3       Sulp         169       2       Satty       6       Gas         20-33       1       Fresh       3       Sulp         2       Satty       4       Min       6       Gas         20-33       1       Fresh       3       Sulp       6       Gas         30-33       1       Fresh       3       Sulp       6       Gas         310-33       1       Fresh       3       Sulp       6       Gas         310-33       1       Fresh       3       Sulp       6       Gas	shur         19           ohur         19           erals         17-18           ohur         24           ohur         29           erals         5           ohur         29           erals         2           ohur         24           ohur         29           erals         24-25           ohur         24           ohur         34           ohur         34	Alerial     Wall       Material     Wall       Material     thickness       Steel     12       Galvanized     •188       Concrete     Open hole       Plastic     19       Steel     19       Galvanized     Concrete       Open hole     Plastic       Steel     26       Galvanized     Concrete       Open hole     Plastic       Plastic     26       Plastic     26	Depth - feet         Z           From         To           O         222           20-23         61           22         175		inches feet Depth at top of screen 41-44 feet
71        Pump 2  Bailer          Static level end of pumping         19-21       22-24         19-21       22-24         37       feet         37       feet         37       feet         38-41       Put         GPM       GPM         Recommended pump type       Re         0       Shallow       Deep         \$0-53       Observation well       6         0       Deservation well       6	10     GPM       Water levels during     1       minutes     29-31       29-28     29-31       44feet     53 feet       mp intake set at     1       feet     64	Duration of pumping       1	Indicate north by	LOCATION OF WELL v show distances of well from v arrow. Dect Dect Jep 26 X x	TAX
2 Stock 6 3 Irrigation 7 4 Industrial 8 METHOD OF CONSTRUCTION	55 56 Commercial Municipal Public supply Cooling & air conditioning N 57	9 [] Not used 10 [] Other	Woodsi	de	Flewe
Cable tool 20-175 5 2 Rotary (conventional) 6 3 Rotary (reverse) 7 C 4 Rotary (air) 8 C	Air percussion 0-20 Boring Diamond Jetting	9 [] Driving 10 [] Digging 11 [] Other	Acre	25	175696
Name of Well Contractor <u>Capital Water Sup</u> Address		Well Contractor's Licence No. 1558	Date of inspection	1558 59-62 Date	EP 1 5 1997
P.O. Box 490 Sti Name of Well Technician S. Miller/W. Kava Signature of Technician/Contractor		Well Technician's Licence No. TOO97/TOO95 Submission date day 8 mo 8 yr 97	S ALLSININ W		0506 (07/94) Front Form

يجرد مربق المراجعين

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The Ontario Water Resources Act WATER WELL RECORD

Print only in spaces provided.

Mark correct box with a checkmark, where applicable.

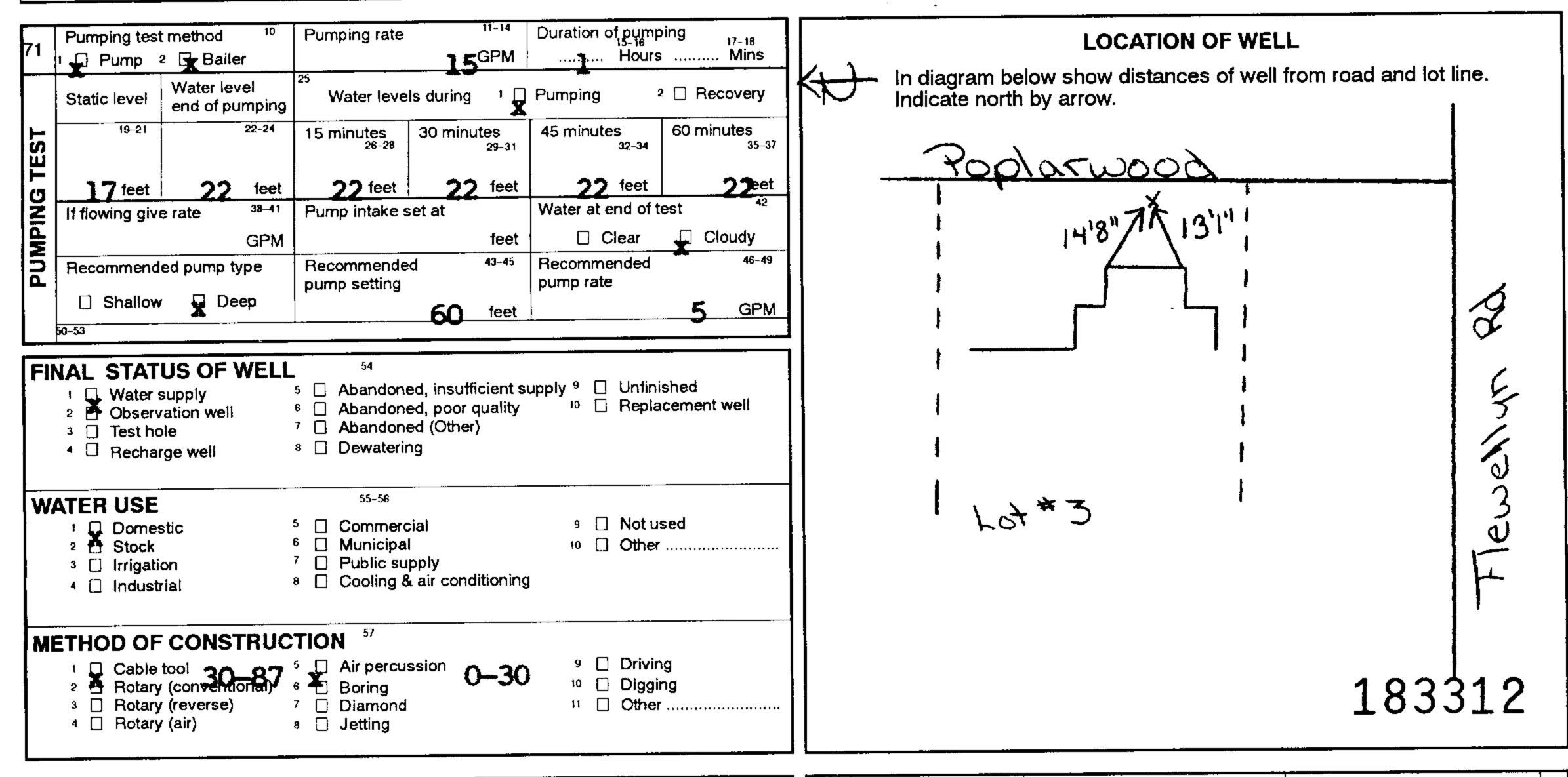
1	5	2	9	5	7
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11

2



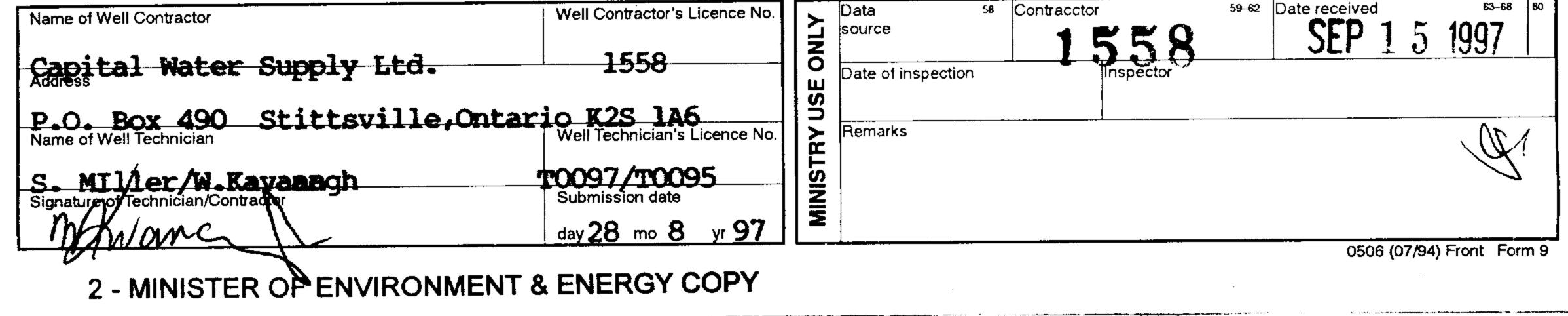
County or District			Township/E	Borough/City/	Town/Village			Con blo	ck tract survey	, etc. L	ot 25-27
Ottawa Car	leton			Goulbo	urn				9		23
		•••	Address <b>B50-36</b>	Antare	<u>s Drive</u>	RC Eleva	ation RC	<b>io</b> Basin Code	Date completed 2	7day 8	48-53 montt <b>97 yea</b> iv
21	U - T M	10 Ea	asting KBE 7W.								4
		LOG O	FOVERBURDE	AND BED	ROCK MA	TERIALS	(see instructi	ons)			
General colour	Most common ma	terial	Oth	er materials			General	description		D From	epth – feet
Brown	SAnd, I	Loom	Si	tones			Fill			0	6
Brown	Sand ,(	<u>Clay</u>						<u>.</u>		6	10
Gray	Hardpar	<b>n</b>	B	oulders						10	20
Gray	Gravel		G	ray San	d					20	22
Gray	Limesto	one								22	87
									<b>_</b>		
										-	
	"										
									<u></u>		
31											
32	15 21		32		43		<u></u> 54		<b>65</b>		75
41 WAT Water found at – feet	ER RECORD Kind of water	51 Inside diam	CASING & Material	Wall thickness	E RECORI Depth - From		Sizes of o (Slot No.)	pening		nches	ngth ³⁹ fe
10-13 1 [	Fresh ³ Sulphur ¹⁴ 4  Minerals 6  Gas	inches <b>5 1¹⁰/4</b>		inches •188	0	27	Material a	nd type		Depth at to	feet
	Fresh ³ Sulphur ¹⁹		<ul> <li>3 Concrete</li> <li>4 Open hole</li> <li>5 Plastic</li> </ul>				61		NG & SEALIN	G RECO	
81	Salty 6 Gas	17-18	1 🗍 Steel 19 2 🗌 Galvanized			20-23		Annular spa			
2 []	Salty 6 Gas	6 1/8	<ul> <li>Generate</li> <li>Concrete</li> <li>Open hole</li> <li>Plastic</li> </ul>		27	30	Depth set at - From 10-13	- 1eet To Ma	aterial and type (Ce	ment grout,	bentonite, et
25-28 i [] 2 []	Fresh ³ D Sulphur Salty ⁴ D Minerals ⁶ D Gas	24-25				27-30	25-21		routed Ce	meth	(5)
	Fresh ³ Sulphur ³⁴ 4  Minerals 5alty ₆ Gas	6	3 Concrete 4 Den hole 5 Piastic		30	87	26-29	30-33 60			



59-62 Date received

63-68 60

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Ministry of Environment and Energy

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, transformer, see

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## 1529714

Municipality Con CON 22 23 24 22 23 24

The Ontario Water Resources Act WATER WELL RECORD

County or District	· · · · · · · · · · · · · · · · · · ·		Township/Boro	ough/City/To	own/Villag	e	<u>,</u>	Con bloc	k tract survey	, etc. Lot	25-27
				Goulbo					9		<b>23</b> 48 53
			Address			0 Bar '	12000 -	nata	Date completed 2	day <b>10</b> mor	
21	T [ M [		Ontario	K2K		RC Elèva		Basin Code		ш 1	iV 1
12	M	LOG OF O	VERBURDEN A	ND BEDR		25 26 ATERIALS (	30 see instructi	ions)			
General colour	Most common mater			naterials				description		Dept From	th – feet To
Brown	Sand		Stones	(Shal	e)		Packe	d		- <b>0</b>	6
Gray	Linestone		0.00.00							6	-20
Gray	Limestone						HArd			20	-48
Gray	Linestone						Mediu	m		48	- 79
Brown	Limestone						Mediu	m		79	<del>-141</del>
Gray	Limestone						Mediu	<b>m</b>		141	<del>165</del>
Brown	Limestone						Mediu			165	172
Gray	Limestone						Mediu	180		172	<del>190</del>
											└ <u></u> ,
31 32			┿┿┸┶╌┝╍┖╛┞ _╴	<del>المعند المند</del> المرار ا			└╷┊┃╷╷╽				┈┷╼┵╍┙└ <u>╶</u> ┟╌╷└╴┨
10 1		51		EN HOLE	RECOF	RD	54 Sizes of c		31-33 Diameter	34-38 Lengt	75 8 N 39–40
Water found at - feet	Kind of water	Inside diam inches	Material 1	Wall thickness inches	Dept <del>t</del> From	n feet To	(Slot No.)		ir	nches	feet
2 [	☐ Fresh ³ ☐ Sulphur ¹⁴ ⁴ ☐ Minerals ☐ Salty ₆ ☐ Gas	6 <b>174</b> ¹	Steel ¹² Galvanized •	188	0	22.5	S Material a	апа туре		Depth at top o	feet
147	□ Fresh ³ □ Sulphur ¹⁹	4	Concrete Open hole Plastic				61	PLUGGI	NG & SEALIN	G RECORI	
20-23 1	□ Salty 6 □ Gas □ Fresh 3 □ Sulphur ²⁴ 4 □ Minerals	2			,	20-23	Depth set at	Annular spac	e	Abandonme	ent
2 [	□ Salty 6 □ Gas	5	Concrete Open hole Plastic		22.5	190	From 10-13	To Ma 14-17	terial and type (Ce		
2 [	□ Salty	24=25 1 2	Steel ²⁶ Galvanized			27-30	<b>2</b> ],	<u>Q</u> -25 GE	outed Ce	<del>nent (3</del>	;)
30-33 ¹ [ 2 [	□ Fresh ³ □ Sulphur ³⁴ ⁶⁰ ⁴ □ Minerals □ Salty ₆ □ Gas	4	Concrete Open hole Plastic				26-29	30-33 80			
Pumping test r			Duration of pumping						EWELL		
1 Pump 2	Bailer	13 GPM	Hours	Mins	X	In diagram	below show	distances	of well from ro	ad and lot li	ne.
Static level	end of pumping water levels	30 minutes		minutes	V	Indicate no	orth by arrow.		RA		
L 19-21 U 23 feet U flowing give Recommended		29-31		46 feet	Y -		Flen				
U If flowing give	rate ³⁸⁻⁴¹ Pump intake se GPM	et at feet	Water at end of test	Cloudy					, 25	de	
	d pump type Recommended pump setting		Recommended pump rate	46-49					Woodsi	es	
50-53	☐ Deep <b>X</b>	140 ^{feet}		5 GPM					N T		
FINAL STATU			pply 9 🔲 Unfinished				54 41 _		₁		
<ul> <li>Water su</li> <li>Observa</li> <li>Test hole</li> <li>Recharg</li> </ul>	e / 🗌 Abandone	d (Other)	10 🗌 Replaceme	ent well		æ		12	3 × 1		
	55-56					õ	<u></u>	$\int$	1411		
t Domesti 2 Stock	ic ⁵ Commerci ⁶ Municipal		⁹ □ Not used ¹⁰ □ Other			3	Deser	tow	1		
3 ☐ Irrigation 4 ☐ Industria	n 7 🗌 Public sup	ply air conditioning				2					
	CONSTRUCTION 57					0	Tore	st Gn	ove Pr.		
1 🗌 Cable to 2 🔟 Rotary (	coloring	^{sion} 0-20	9 Driving 10 Digging			[#]				1832	57
3 ☐ Rotary ( 4 ☐ Rotary (	(reverse) 7  Diamond (air) 8  Jetting		11 🗋 Other							1002	
Name of Well Con	ntractor		Well Contractor's	Licence No.		ta urce	58 Contracctor	120	59-62 Date reci		63 68 E
Capital W	Water Supply Ltd	<b>.</b>	1558			te of inspection	15	Inspector	DEC	221	997
	490 Stittsvill		io K25 1A6		USE	marks					
1					STRY He	mana3				Ø	$\mathcal{H}_{(-)}$
Signature of Techr	C/W. Kavanagh nician/Contractor		TOO97/TOO Submission date dav21 mo 10		WIN						$\mathcal{S}$
L	· · · · · · · · · · · · · · · · · · ·		uay mo	1 191	I <b>L</b>	·····				0506 (07/94) F	Front Form

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Print only in spa Mark correct box	ces provided. k with a checkmark, where ap	oplicable.		15	297	91	Municipality 15G03	Con. C O N	22 23
County or District	arleton		wnship/Borough/City/ Goulbourr				Con block trac		t 2 24
Owner's surname	e 28-47 First nan		idress 50 <u>–36 Antare</u>	og Dro	Noncar	Ontario	Date	pleted 4 day12 m	
	<u>Dimensions Inc</u>	Easting	Northing		RC Eleva		Basin Code		lv
21	ML				TERIALS (	see instruction	31 ons)		
General colour	Most common material		Other materials				description	De	epth – fee To
						Fill		0	
Brown	Sand		<b>D</b> ] Jane			Packe	a	5	]
Brown	Hardpan		Boulders			Hard	<b>u</b>	11	13
Gray	Limestone							132	14
Brown	Limestone					Soft			
									+
							<u> </u>		
						<b></b>			-
65	□ Fresh 3 □ Sulphur 14 □ Salty 6 □ Gas	1%4   Stee 2 Galv 3 Con	el 12 vanized •188	0	22-5	Material a			4i⊸ fee
126 2 20-23 1 142 2 25-28 1 2 20-33	Resider     IC       Water level end of pumping     25     Water levels duri       22     24     15 minutes 26-28     30 m 26-28       60     feet     34     feet       4     Pump intake set at GPM     Facommended pump setting	4 □ Ope 5 □ Plas 17-18 1 □ Stee 2 □ Galk 3 □ Con 4 ℃ Ope 5 □ Plas 2 □ Galk 3 □ Con 4 ℑ Ope 2 □ Galk 3 □ Con 4 ℑ Ope 2 □ Galk 3 □ Con 4 ℑ Ope 5 □ Plas 11-14 Duration GPM	n hole stic al 19 vanized crete in hole tic al 28 vanized crete anized crete anized crete anized crete anized crete anized crete anized crete anized crete anized crete anized crete anized crete anized crete anized crete anized crete anized crete anized crete anized crete anice anized crete anice anized crete anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice anice a		Indicate n 20'	Depth set at - From 10-13 20 13-21 28-29 LOO n below show orth by arrow.	Annular space feet To Material ar 0 22-25 30-33 80 CATION OF WE distances of wel	SEALING RECOI	RD ment bentonite, (3)
126     2       20-23     1       2     2       25-28     1       2     2       30-33     1       2     2       30-33     1       2     2       30-33     1       2     2       30-33     1       2     2       30-33     1       2     2       30-33     1       2     2       1     Pumping test       19-21     19-21       12     feet       11     flowing give       Recommender     3       30-33     1	□ Salty       4       □ Miniferals       6       Gas         □ Fresh       3       □ Sulphur       24         □ Salty       6       □ Gas       6         □ Fresh       3       □ Sulphur       24         □ Salty       4       □ Minerals       6         □ Fresh       3       □ Sulphur       24         □ Salty       4       □ Minerals       60         □ Fresh       3       □ Sulphur       34         □ Salty       4       □ Minerals       60         □ Salty       4       □ Minerals       60         □ Salty       4       □ Minerals       60         □ Water level       6       □ Gas       10         Water level       25       Water levels duri       26-28         □ Prate       38-41       Pump intake set at       30 m         □ Frate       38-41       Pump intake set at       30 m         □ GPM       □ Deep       □ GPM       34       10         □ Soff WELL       34       10       10       10	4 □ Ope 5 □ Plas 17-18 1 □ Stee 2 □ Galk 3 □ Con 4 𝔅 Ope 5 □ Plas 24-25 1 □ Stee 2 □ Galk 3 □ Con 4 𝔅 Ope 5 □ Plas 24-25 1 □ Stee 2 □ Galk 3 □ Con 4 𝔅 Ope 5 □ Plas 11-14 Duration GPM	n hole el 19 vanized crete in hole titic el 26 vanized crete in hole titic el 26 vanized crete in hole titic n of pumping Hoürs Mills g 2 □ Recovery stes 32-34 60 minutes 35-3 ) feet t end of test 40 Clear Clear S GPM		145 27-30 In diagram Indicate no Indicate no 200'	Depth set at - From 10-13 20 18-21 26-29 LOG n below show orth by arrow.	Annular space feet To Material ar 0 22-25 30-33 80 CATION OF WE distances of wel	Abandonn      d type (Cement grout, b      ced Cement	RD ment bentonite
126     2       20-23     1       23-28     1       23-28     1       23-28     1       23-33     1       2     30-33       1     Pumping test       1     19-21       1     19-21       1     19-21       1     1       1     10       1     10       1     10       1     10       1     10       1     10       1     10       1     10       1     10       1     10       1     10       1     10       1     10       1     10       1     10       1     10       1     10       1     10       1     10       1     10       1     10       1     10       1     10       1     10       1     10       1     10       1     10 </td <td>□ Salty       4       □ Miniferans       6       Gas         □ Fresh       3       □ Sulphur       24       Minerals       6       Gas         □ Salty       4       □ Minerals       6       Gas       6       Gas       6         □ Fresh       3       □ Sulphur       24       Minerals       6       Gas       6         □ Salty       4       □ Minerals       6       Gas       6       6       6         □ Salty       4       □ Minerals       6       Gas       6       6       6         □ Salty       4       □ Minerals       6       Gas       6       6       6         □ Salty       6       □ Gas       0       7       0       7       6       6         □ Matter level       6       □ Gas       30 m       7       7       30 m       7         □ Water level       22 24       15 minutes       30 m       7       30 m       7       30 m         □ Cot       12 2 4       15 minutes       30 m       7       30 m       7       30 m         □ rate       38-41       Pump intake set at       GPM       GPM       1       &lt;</td> <td>4 □ Ope 5 □ Plas 17-18 1 □ Stee 2 □ Galv 3 □ Con 4 ℃ Ope 5 □ Plas 2 □ Galv 3 □ Con 4 ℃ Ope 5 □ Plas 24-25 1 □ Stee 2 □ Galv 3 □ Con 4 ℃ Ope 5 □ Plas 24-25 1 □ Stee 2 □ Galv 3 □ Con 4 ℃ Ope 5 □ Plas 11-14 Duratior 0 GPM</td> <td>n hole el 19 vanized crete in hole titic el 26 vanized crete in hole titic el 26 vanized crete in hole titic n of pumping  Hoürs Mills g 2 □ Recovery stes 32-34 60 minutes 35-3 ) feet t end of test 40 Clear Clear S GPM</td> <td></td> <td>145 27-30 In diagram Indicate no Indicate no 200'</td> <td>Depth set at - From 10-13 20 18-21 26-29 LOG n below show orth by arrow.</td> <td>Annular space feet To Material ar 0 22-25 30-33 80 CATION OF WE distances of wel</td> <td>Abandom</td> <td>RD ment bentonite</td>	□ Salty       4       □ Miniferans       6       Gas         □ Fresh       3       □ Sulphur       24       Minerals       6       Gas         □ Salty       4       □ Minerals       6       Gas       6       Gas       6         □ Fresh       3       □ Sulphur       24       Minerals       6       Gas       6         □ Salty       4       □ Minerals       6       Gas       6       6       6         □ Salty       4       □ Minerals       6       Gas       6       6       6         □ Salty       4       □ Minerals       6       Gas       6       6       6         □ Salty       6       □ Gas       0       7       0       7       6       6         □ Matter level       6       □ Gas       30 m       7       7       30 m       7         □ Water level       22 24       15 minutes       30 m       7       30 m       7       30 m         □ Cot       12 2 4       15 minutes       30 m       7       30 m       7       30 m         □ rate       38-41       Pump intake set at       GPM       GPM       1       <	4 □ Ope 5 □ Plas 17-18 1 □ Stee 2 □ Galv 3 □ Con 4 ℃ Ope 5 □ Plas 2 □ Galv 3 □ Con 4 ℃ Ope 5 □ Plas 24-25 1 □ Stee 2 □ Galv 3 □ Con 4 ℃ Ope 5 □ Plas 24-25 1 □ Stee 2 □ Galv 3 □ Con 4 ℃ Ope 5 □ Plas 11-14 Duratior 0 GPM	n hole el 19 vanized crete in hole titic el 26 vanized crete in hole titic el 26 vanized crete in hole titic n of pumping Hoürs Mills g 2 □ Recovery stes 32-34 60 minutes 35-3 ) feet t end of test 40 Clear Clear S GPM		145 27-30 In diagram Indicate no Indicate no 200'	Depth set at - From 10-13 20 18-21 26-29 LOG n below show orth by arrow.	Annular space feet To Material ar 0 22-25 30-33 80 CATION OF WE distances of wel	Abandom	RD ment bentonite
126     2       20-23     1       2     2       25-28     1       2     2       30-33     1       2     2       30-33     1       2     2       30-33     1       2     2       30-33     1       2     2       30-33     1       2     2       30-33     1       2     2       1     Pumping test       19-21     19-21       12     feet       11     flowing give       Recommender     3       30-33     1	□ Salty       4       □ Miniferals       6       Gas         □ Fresh       3       □ Sulphur       24         □ Salty       6       □ Gas         □ Fresh       3       □ Sulphur       24         □ Salty       4       □ Minerals         6       □ Gas         □ Salty       4       □ Minerals         6       □ Gas         □ Fresh       3       □ Sulphur         3       □ Sulphur       34         □ Salty       6       □ Gas         □ Fresh       3       □ Sulphur         6       □ Gas       6         □ Water level       □ Gas       6         ∞ Bailer       10       Pumping rate         Water level       0       10         water level       10       20-24         15 minutes       30 m         20 feet       34 feet       4         GPM       Pump intake set at       GPM         sd pump type       Recommended pump setting       10         JS OF WELL       54       Abandoned, ins atoon well         6       Abandoned, poe       7 <td>4 □ Ope 5 □ Plas 17-18 1 □ Stee 2 □ Galv 3 □ Con 4 ℃ Ope 5 □ Plas 2 □ Galv 3 □ Con 4 ℃ Ope 5 □ Plas 24-25 1 □ Stee 2 □ Galv 3 □ Con 4 ℃ Ope 5 □ Plas 24-25 1 □ Stee 2 □ Galv 3 □ Con 4 ℃ Ope 5 □ Plas 11-14 Duratior 0 GPM</td> <td>n hole stic 19 anized crete in hole titic 21 26 yanized crete in hole stic 21 26 n of pumping Milhs g 2 Recovery res 32-34 60 minutes 32-34 60 feet it end of test 40 Clear 12 Cloudy mended 46-49 ate 46-49 Clear 12 Cloudy</td> <td></td> <td>145 27-30 In diagram Indicate no Indicate no 200 4</td> <td>Depth set at - From 10-13 20 18-21 26-29 LOG n below show orth by arrow.</td> <td>Annular space feet To Material ar 0 22-25 30-33 80 CATION OF WE distances of wel</td> <td>Abandom</td> <td>RD ment bentonite</td>	4 □ Ope 5 □ Plas 17-18 1 □ Stee 2 □ Galv 3 □ Con 4 ℃ Ope 5 □ Plas 2 □ Galv 3 □ Con 4 ℃ Ope 5 □ Plas 24-25 1 □ Stee 2 □ Galv 3 □ Con 4 ℃ Ope 5 □ Plas 24-25 1 □ Stee 2 □ Galv 3 □ Con 4 ℃ Ope 5 □ Plas 11-14 Duratior 0 GPM	n hole stic 19 anized crete in hole titic 21 26 yanized crete in hole stic 21 26 n of pumping Milhs g 2 Recovery res 32-34 60 minutes 32-34 60 feet it end of test 40 Clear 12 Cloudy mended 46-49 ate 46-49 Clear 12 Cloudy		145 27-30 In diagram Indicate no Indicate no 200 4	Depth set at - From 10-13 20 18-21 26-29 LOG n below show orth by arrow.	Annular space feet To Material ar 0 22-25 30-33 80 CATION OF WE distances of wel	Abandom	RD ment bentonite
126     2       20-23     1       23-28     1       23-28     1       23-28     1       23-33     1       2     30-33       1     2       30-33     1       2     30-33       1     Pumping test       1     Pumping test       1     Pumping test       19-21     19-21       12     feet       If flowing give       Recommender       3     Test hol       4     Recharge       WATER USE	□ Salty       4       □ Miniferals       6       Gas         □ Fresh       3       □ Sulphur       24       Minerals       6         □ Salty       6       Gas       6       Gas       6         □ Fresh       3       □ Sulphur       24       Minerals       6         □ Salty       6       Gas       6       6         □ Fresh       3       □ Sulphur       24       6         □ Salty       6       Gas       60       6         □ Fresh       3       □ Sulphur       34       6       6         □ Salty       6       Gas       6       6       6         □ Water level end of pumping       10       Pumping rate       10         Vater level end of pumping       22       24       15 minutes 26-28       30 m         • Tate       38-41       Pump intake set at       4       4       4         • GPM       9       Pecommended pump setting       10       10         • Deep       10       54       4       4       10         • Dandoned, po       0       Abandoned, po       10       10         • Dewatering       0       Aban	4 □ Ope 5 □ Plas 17-18 1 □ Stee 2 □ Galk 3 □ Con 4 ℃ Ope 5 □ Plas 2 □ Galk 3 □ Con 4 ℃ Ope 5 □ Plas 24-25 1 □ Stee 2 □ Galk 3 □ Con 4 ℃ Ope 5 □ Plas 24-25 1 □ Stee 2 □ Galk 3 □ Con 4 ℃ Ope 5 □ Plas 11-14 Duration 0 GPM	n hole stic 19 anized crete in hole titic 26 vanized crete in hole stic 26 anized crete in hole stic 27 of pumping		145 27-30 In diagram Indicate no Indicate no 200 4	Depth set at - From 10-13 20 18-21 26-29 LOG n below show orth by arrow.	Annular space feet To Material ar 0 22-25 30-33 80 CATION OF WE distances of wel	Abandom	RD ment bentonite
126     2       20-23     1       23-28     1       23-28     1       23-28     1       23-33     1       2     30-33       1     Pumping test       1     Pumping test       1     Pumping test       1     Pumping test       1     19-21       1     12       12     12       12     12       12     12       12     12       12     12       13     12       14     12       15     12       12     12       14     12       15     12       14     12       15     12       12     12       14     12       15     12       14     12       15     10       14     12       15     10       16     10       17     10       18     10       19     10       14     12       15     10       16     10       17     10       18     10       19 <td>□ Salty       4       □ Miniferals       6       Gas         □ Fresh       3       □ Sulphur       24       Minerals       6         □ Salty       6       □ Gas       6       Gas       6         □ Fresh       3       □ Sulphur       24       Minerals       6         □ Salty       6       □ Gas       6       6         □ Fresh       3       □ Sulphur       24       6       6         □ Salty       6       □ Gas       60       6       6         □ Salty       6       □ Gas       60       6       6         □ Water level end of pumping       10       Pumping rate       10       20       24       15 minutes 26-28       30 m         □ Got       10       10       Pumping rate       10       20       24       15 minutes 26-28       30 m         □ fate       10       10       10       10       10       10       10         □ rate       38-41       Pump intake set at       30 m       10       10       10         □ SofF WELL       54       10       54       10       10       10         □ Dewatering       □       &lt;</td> <td>4 □ Ope 5 □ Plas 17-18 1 □ Stee 2 □ Galk 3 □ Con 4 ℃ Ope 5 □ Plas 2 □ Galk 3 □ Con 4 ℑ Ope 5 □ Plas 24-25 1 □ Stee 2 □ Galk 3 □ Con 4 ℑ Ope 5 □ Plas 2 □ Galk 3 □ Con 4 ℑ Ope 5 □ Plas 11-14 Duration GPM</td> <td>n hole el 19 vanized crete in hole titic el 26 vanized crete in hole titic el 26 vanized crete in hole titic n of pumping  Holives 32:34 0 feet t end of test Clear Cloudy mended 46:48 5 GPM Unfinished Replacement well</td> <td></td> <td>145 27-30 In diagram Indicate no Indicate no 200 4</td> <td>Depth set at - From 10-13 20 18-21 26-29 LOG n below show orth by arrow.</td> <td>Annular space feet To Material ar 0 22-25 30-33 80 CATION OF WE distances of wel</td> <td>Abandom</td> <td>RD ment bentonite</td>	□ Salty       4       □ Miniferals       6       Gas         □ Fresh       3       □ Sulphur       24       Minerals       6         □ Salty       6       □ Gas       6       Gas       6         □ Fresh       3       □ Sulphur       24       Minerals       6         □ Salty       6       □ Gas       6       6         □ Fresh       3       □ Sulphur       24       6       6         □ Salty       6       □ Gas       60       6       6         □ Salty       6       □ Gas       60       6       6         □ Water level end of pumping       10       Pumping rate       10       20       24       15 minutes 26-28       30 m         □ Got       10       10       Pumping rate       10       20       24       15 minutes 26-28       30 m         □ fate       10       10       10       10       10       10       10         □ rate       38-41       Pump intake set at       30 m       10       10       10         □ SofF WELL       54       10       54       10       10       10         □ Dewatering       □       <	4 □ Ope 5 □ Plas 17-18 1 □ Stee 2 □ Galk 3 □ Con 4 ℃ Ope 5 □ Plas 2 □ Galk 3 □ Con 4 ℑ Ope 5 □ Plas 24-25 1 □ Stee 2 □ Galk 3 □ Con 4 ℑ Ope 5 □ Plas 2 □ Galk 3 □ Con 4 ℑ Ope 5 □ Plas 11-14 Duration GPM	n hole el 19 vanized crete in hole titic el 26 vanized crete in hole titic el 26 vanized crete in hole titic n of pumping Holives 32:34 0 feet t end of test Clear Cloudy mended 46:48 5 GPM Unfinished Replacement well		145 27-30 In diagram Indicate no Indicate no 200 4	Depth set at - From 10-13 20 18-21 26-29 LOG n below show orth by arrow.	Annular space feet To Material ar 0 22-25 30-33 80 CATION OF WE distances of wel	Abandom	RD ment bentonite
126     2       20-23     1       142     2       23-28     1       23-28     1       23-28     1       2     30-33       1     2       30-33     1       2     2       30-33     1       2     2       30-33     1       2     2       30-33     1       2     2       Static level     19-21       12     feet       11 flowing give       Recommender       3     Test hol       4     Recharge       WATER USE       2     Stock       3     Irrigatic       4     Industri	□ Salty       4       □ Miniferals       6       Gas         □ Fresh       3       □ Sulphur       24       Minerals       6         □ Salty       6       □ Gas       6       Gas       6         □ Fresh       3       □ Sulphur       24       Minerals       6         □ Salty       4       □ Minerals       6       6         □ Salty       6       □ Gas       10       7         Water level end of pumping       2       2       4       15 minutes       30 m         22 24       15 minutes       30 m       26-28       26       26         60       feet       34 feet       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4	4 □ Ope 5 □ Plas 17-18 1 □ Stee 2 □ Galk 3 □ Con 4 ℃ Ope 5 □ Plas 2 □ Galk 3 □ Con 4 ℑ Ope 5 □ Plas 24-25 1 □ Stee 2 □ Galk 3 □ Con 4 ℑ Ope 5 □ Plas 2 □ Galk 3 □ Con 4 ℑ Ope 5 □ Plas 11-14 Duration GPM	n hole stic 19 anized crete in hole titic 26 vanized crete in hole stic 26 anized crete in hole stic 27 of pumping		145 27-30 In diagram Indicate no Indicate no 200 4	Depth set at - From 10-13 20 18-21 26-29 LOG n below show orth by arrow.	Annular space feet To Material ar 0 22-25 30-33 80 CATION OF WE distances of wel	Abandom	RD ment bentonite
126       2         20-23       1         142       2         25-28       1         2       30-33         1       2         30-33       1         1       Pumping test.         71       Pumping test.         1       Pumping test.         1       Pumping test.         1       Pumping test.         19-21       12 feet         11 flowing give       Recommende         Shallow       So-33         2       Observol         3       Test hol         4       Recharge         WATER USE       Stock         3       Irrigatic         4       Industri         METHOD OF	□ Salty       4       □ Miniferals       6       Gas         □ Fresh       3       □ Sulphur       24       Minerals       6         □ Salty       6       Gas       6       Gas       6         □ Fresh       3       □ Sulphur       24       Minerals       6         □ Salty       4       □ Minerals       6       Gas       6         □ Fresh       3       □ Sulphur       34       6       Gas       6         □ Salty       4       □ Minerals       6       Gas       6       6         □ Salty       6       □ Gas       6       6       6       6       6         □ Salty       6       □ Gas       6       6       6       6       6       6         □ Water level       6       □ Gas       10       20       24       15 minutes       30 m       26       26       26       26       26       10         □ Soft Heet       34       10       9       10       26       26       10       10         □ Soft Heet       34       14       14       10       10       10       10         □ Deep       □<	4       Ope         5       Plas         17-18       1         1       Stee         2       Galk         3       Con         4       Ope         3       Con         4       Ope         3       Con         4       Ope         3       Con         4       Ope         5       Plas         11-14       Duration         OP       OPH         29-31       45         Water a       feet         47       feet         43       45         Pecond       Pecon         sufficient supply 9       oor quality         10       Stee         9       10         conditioning       9	n hole ei 19 vanized crete in hole titic el 26 vanized crete in hole stic n of pumping Hole stic n of pumping Hole stic g 2 Gecovery res 32:34 0 feet 60 minutes 32:34 60 minutes 32:34 60 minutes 32:34 1 GO feet Clear 20 Cloudy mended 46:49 61 GPM GPM GPM GPM GPM GPM		In diagram In diagram Indicate nu 1dicate nu 200 4 28 200 200 200 200 200 200 200 200 200	LOC Depth set at- From 10-13 20- 18-21 26-29 LOC to below show orth by arrow.	Annular space To Material ar To Grout 22-25 30-33 80 CATION OF WE distances of wel	Abandon Ad type (Cement grout, t ed Cement ( LL I from road and lot	RD ment bentonite (3)
126       2         20-23       1         142       2         25-28       1         2       30-33       1         2       30-33       1         2       30-33       1         2       30-33       1         2       30-33       1         2       30-33       1         2       Static level       1         19-21       12       feet         11       19-21       1         2       feet       1         19-21       12       feet         15       12       feet         16       flowing give       Recommende         3       Descove       2         3       Test hol       4         4       Recharge       Stock         3       Irrigatic       4         1       Industri       Cable t         2       Stock       1         3       Rotary       3         2       Rotary       3	□ Salty       4       □ Miniferals         6       □ Gas         □ Fresh       3       □ Sulphur       24         □ Salty       6       □ Gas         □ Fresh       3       □ Sulphur       24         □ Salty       4       □ Minerals       6         □ Gas       □       □       □         □ Mater level       6       □ Gas       □         water level       2       2       □       □         end of pumping       □       Pump intake set at       □         GO feet       34 feet       4       □         iation well       6       □ Abandoned, ins       □         ation well       6       □ Abandoned, poe       □         e       7<	4       Ope         5       Plas         17-18       1         1       2         3       Con         4       0         2       Galy         3       Con         4       0         24-25       1         1       Stee         2       Galy         3       Con         4       0         2       Galy         3       Con         4       0         11-14       Duration         0       GPM             29-31       45 <minx< td="">         47       feet         47       feet         9-31       60         43       45         9       or quality         10       feet         9       10         10       9         10       9         10       9         10       9         10       9         10       9         10       9         10       9         10</minx<>	n hole el 19 vanized crete in hole titic el 26 vanized crete in hole titic el 26 vanized crete in hole stic n of pumping Höürs Milhs g 2 Recovery Höürs Milhs g 2 Recovery Höürs Milhs g 2 Recovery Höürs Milhs G 164 Höürs Milhs g 2 Recovery Höürs Milhs g 2 Recovery Höürs Milhs Höürs Milhs Höürs Milhs Höürs Milhs Höürs Milhs Höürs Milhs Höürs G 2 Recovery Höürs		In diagram In diagram Indicate nu 1dicate nu 200 4 28 200 200 200 200 200 200 200 200 200	LOC Depth set at- From 10-13 20- 18-21 26-29 LOC to below show orth by arrow.	Annular space To Material ar To Grout 22-25 30-33 80 CATION OF WE distances of wel	Abandon Ad type (Cement grout, t ed Cement ( LL I from road and lot	RD ment bentonite (3)
126       2         20-23       1         23-28       1         23-28       1         23-28       1         2       30-33         1       2         30-33       1         2       30-33         1       Pumping test         1       Pumping test         1       Pumping test         19-21       19-21         12       feet         If flowing give       Recommender         Shallow       20         \$0-53       Test hold         4       Recharge         WATER USE       Stock         1       Industri         METHOD OF       Stock         1       Cable t	□ Salty       4       □ Miniferals         6       □ Gas         □ Fresh       3       □ Sulphur       24         □ Salty       6       □ Gas         □ Fresh       3       □ Sulphur       24         □ Salty       4       □ Minerals       6         □ Gas       □       □       □         □ Mater level       6       □ Gas       □         water level       2       2       □       □         end of pumping       □       Pump intake set at       □         GO feet       34 feet       4       □         iation well       6       □ Abandoned, ins       □         ation well       6       □ Abandoned, poe       □         e       7<	4       Ope         5       Plas         17-18       1         1       2         3       Con         4       0         2       Galy         3       Con         4       0         24-25       1         1       Stee         2       Galy         3       Con         4       0         2       Galy         3       Con         4       0         11-14       Duration         0       GPM             29-31       45 <minx< td="">         47       feet         47       feet         9-31       60         43       45         9       or quality         10       feet         9       10         10       9         10       9         10       9         10       9         10       9         10       9         10       9         10       9         10</minx<>	n hole el 19 vanized crete in hole titic el 26 vanized crete in hole titic for of pumping Hol6rs Mil ³ s g 2 Recovery Mil ³ s g 2 Recovery Mil ³ s GO fielt 60 minutes 35-3 ) feet 60 feet Clear Cloudy mended 46.49 ate 5 GPM Unfinished Replacement well Other		In diagram In diagram Indicate nu 1dicate nu 200 4 28 200 200 200 200 200 200 200 200 200	LOC Depth set at- From 10-13 20- 18-21 26-29 LOC to below show orth by arrow.	Annular space To Material ar To Grout 22-25 30-33 80 CATION OF WE distances of wel	Abandom	RD ment bentonite (3)
126       2         20-23       1         23-28       1         23-28       1         2       30-33       1         2       30-33       1         71       Pumping test       1         1       Pumping test       1         2       Stack       1         2       Observe       1         2       Stack	□ Salty       4       □ Miniferals       6       Gas         □ Fresh       3       □ Sulphur       24       Minerals       6       Gas         □ Salty       4       □ Minerals       6       Gas       6         □ Fresh       3       □ Sulphur       24       Minerals       6       6         □ Salty       4       □ Minerals       6       Gas       6       6         □ Salty       4       □ Minerals       6       Gas       6       6         □ Salty       4       □ Gas       6       6       6       6         □ Salty       6       □ Gas       6       6       6       6         □ Salty       6       □ Gas       6       6       7       10         Water level       □ Gas       30 m       7       8       26/28       30 m         22       24       15 minutes       30 m       7       7       10         Yater level       10       7       7       7       7       10         Yater level       10       7       10       7       7       10         Yater level       10       10       <	4       Ope         5       Plas         17-18       1         2       Galy         3       Con         4       0pe         5       Plas         2       Galy         3       Con         4       0pe         2       Galy         3       Con         4       0pe         2       Galy         3       Con         4       0pe         5       Plas         24-25       1         1       Stee         2       Galy         3       Con         4       Ope         5       Plas         0       GPM        +       1         29-31       45         45       minutes         47       feet         40       43-45         Perominu       10         water a       10         sufficient supply 9       9         oor quality       10         10       10         10       10         11       10 <td>n hole el 19 vanized crete in hole titic el 26 vanized crete in hole titic for of pumping Hol6rs Mil³s g 2 Recovery Mil³s g 2 Recovery Mil³s GO fielt 60 minutes 35-3 ) feet 60 feet Clear Cloudy mended 46.49 ate 5 GPM Unfinished Replacement well Other</td> <td></td> <td>145 27-30 In diagram Indicate nu 145 200 44 28 200 44 28 200 44 28 200 44 28</td> <td>Depth set at- From 10-13 20 13-21 26-29 LOO to below show orth by arrow.</td> <td>Annular space To Material ar To Grout 22-23 30-33 80 CATION OF WE distances of wel Annular space CATION OF WE distances of wel Annular space CATION OF WE Annular space CATION OF WE CATION OF WE CATION OF WE CATION OF WE State of the space CATION OF WE State of the space State of the sp</td> <td>Abendom nd type (Cement grout, t ied Cement ( iLL I from road and lot ied - 1827</td> <td>RD ment bentonite (3)</td>	n hole el 19 vanized crete in hole titic el 26 vanized crete in hole titic for of pumping Hol6rs Mil ³ s g 2 Recovery Mil ³ s g 2 Recovery Mil ³ s GO fielt 60 minutes 35-3 ) feet 60 feet Clear Cloudy mended 46.49 ate 5 GPM Unfinished Replacement well Other		145 27-30 In diagram Indicate nu 145 200 44 28 200 44 28 200 44 28 200 44 28	Depth set at- From 10-13 20 13-21 26-29 LOO to below show orth by arrow.	Annular space To Material ar To Grout 22-23 30-33 80 CATION OF WE distances of wel Annular space CATION OF WE distances of wel Annular space CATION OF WE Annular space CATION OF WE CATION OF WE CATION OF WE CATION OF WE State of the space CATION OF WE State of the space State of the sp	Abendom nd type (Cement grout, t ied Cement ( iLL I from road and lot ied - 1827	RD ment bentonite (3)
126       2         20-23       1         23-28       1         23-28       1         23-28       1         23-28       1         2       30-33       1         2       30-33       1         1       Pumping test       1         1       Pomping test       1         1       Pomping test       1         1       Pomping test       1         1       Pomping test       1         2       Stack       1         2       Observe       1         2       Stack       1         2	□ Salty       4       □ Miniferals       6       Gas         □ Fresh       3       □ Sulphur       24       0       Minerals         □ Salty       4       □ Minerals       6       Gas       6         □ Fresh       3       □ Sulphur       24       0       6       6         □ Salty       4       □ Minerals       6       Gas       6       6         □ Salty       4       □ Minerals       6       Gas       6       6         □ Salty       4       □ Minerals       6       Gas       6       6         □ Salty       6       □ Gas       6       6       6       6       7         □ Salty       6       □ Gas       6       10       Pumping rate       10         Water level       e       □ Gas       30 m       26-28       30 m         22       24       15 minutes       30 m       26-28       30 m         21       15 minutes       34       feet       4       4         GO       feet       34       feet       4       4         Istion well       6       □ Abandoned, ins       6       □ Abandoned, po	4       Ope         5       Plas         17-18       1         2       Galk         3       Con         4       0 Ope         2       Galk         3       Con         4       0 Ope         2       Galk         3       Con         4       0 Ope         2       Galk         3       Con         4       Ouration         0       GPM         29-31       45 minutes         47       feet         43       45 Recomm         pump re       OO feet         00       feet         asufficient supply 9       oor quality         10       10         sufficient supply 9       10         10       10         11       Wei         0       -20       9         10       11         11       Wei	n hole ei 19 vanized crete in hole stic ei 26 vanized crete in hole stic n of pumping Hours g 2 Recovery rtes 32:34 60 minutes 32:34 60 minutes 32:34 Clear 20 Clear 20 Cl		145 2' 30 In diagram Indicate no 20 4 28 28 28 20 20 21 20 21 21 21 21 21 21 21 21 21 21 21 21 21	Depth set at- From 10-13 20 13-21 26-29 LOO to below show orth by arrow.	Annular space feet To Material ar O CATION OF WE distances of wel Annular space CATION OF WE distances of wel Annular space CATION OF WE CATION OF WE Material ar Provide State CATION OF WE CATION	Abendom nd type (Cement grout, i red Cement LL I from road and lot	RD ment bentonite (3) : line.
126       2         20-23       1         142       2         25-28       1         2       30-33       1         2       30-33       1         1       Pumping test       1         71       Pumping test       1         1       Pumping test       1         1       Pumping test       1         19-21       12       feet         11       flowing give       1         9       12       feet         11       flowing give       Recommende         2       Observa       3         3       Test hol       4         4       Recharge       Stock         3       Industr       METHOD OF         1       Cable t       2         2       Rotary       3         3       Rotary       3         4       Rotary       3         3       Rotary       3         4       Rotary       3         Address       P=O       BO         Name of Well Con       Cable t       1         Address       P=O       BO	□ Salty       4       □ Miniferals       6       Gas         □ Fresh       3       □ Sulphur       24       Minerals       6         □ Salty       6       □ Gas       6       6       6         □ Salty       6       □ Gas       6       6         □ Minerals       6       □ Gas       6       6         □ Salty       6       □ Gas       6       6         □ Water level       □ Gas       10       7       7       7         □ Soft WELL       34       10       7       7       7       7         □ Soft WELL       34       10       7       10       7       7         □ Soft WELL       34       10       10       7       10         □ Soft WELL <td>4       Ope         5       Plas         17-18       1         2       Galk         3       Con         4       0pe         2       Galk         3       Con         2       Galk         3       Con         2       Galk         3       Con         4       Duration         GPM      </td> <td>n hole ei 19 vanized crete in hole stic ei 26 vanized crete in hole stic n of pumping  Hours g 2 Recovery rtes 32:34 60 minutes 32:34 60 minutes 32:34 Clear 20 Clear 20 Cl</td> <td></td> <td>145 27-30 In diagram Indicate nu 145 200 44 28 200 44 28 200 44 28 200 44 28</td> <td>Depth set at- From 10-13 20 13-21 26-29 LOO to below show orth by arrow.</td> <td>Annular space To Material ar To Grout 22-23 30-33 80 CATION OF WE distances of wel Annular space CATION OF WE distances of wel Annular space CATION OF WE Annular space CATION OF WE CATION OF WE CATION OF WE CATION OF WE CATION OF WE State of the space CATION OF WE State of the space State of the space</td> <td>Abendom nd type (Cement grout, i red Cement LL I from road and lot</td> <td>RD ment bentonite (3) : line.</td>	4       Ope         5       Plas         17-18       1         2       Galk         3       Con         4       0pe         2       Galk         3       Con         2       Galk         3       Con         2       Galk         3       Con         4       Duration         GPM	n hole ei 19 vanized crete in hole stic ei 26 vanized crete in hole stic n of pumping Hours g 2 Recovery rtes 32:34 60 minutes 32:34 60 minutes 32:34 Clear 20 Clear 20 Cl		145 27-30 In diagram Indicate nu 145 200 44 28 200 44 28 200 44 28 200 44 28	Depth set at- From 10-13 20 13-21 26-29 LOO to below show orth by arrow.	Annular space To Material ar To Grout 22-23 30-33 80 CATION OF WE distances of wel Annular space CATION OF WE distances of wel Annular space CATION OF WE Annular space CATION OF WE CATION OF WE CATION OF WE CATION OF WE CATION OF WE State of the space CATION OF WE State of the space State of the space	Abendom nd type (Cement grout, i red Cement LL I from road and lot	RD ment bentonite (3) : line.

MINISTRY OF ENVIRONM

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Municipality 2 23 24

The Ontario Water Resources Act WATER WELL RECORD

County or District		·····	Township/Borough	h/City/Town/V	illage		Con block tract surv	ey, etc. Lot	25-27
Ottawa Ca Owner's surname		ame	Goulbox Address	urn			9 Date		<b>23</b> 48-53
	l Dimensions Ltd		850-36 AB	tares D	r. Nepea	n,Ontario	O K2E 7W5	23 12 non	th 97ear
21			Northi	ng	RC Eleva		Basin Code		iv l
1	M				25 26	30	31 Ons)		4/
O	Most common materia		Other mate				description		h – feet
General colour								From	To
Brown	Sand & Ston	es 📃				Fi	11	0	3
Brown	sandy Clay					Dr	у	3	9
Gray	Limestone							9	33
						Ma	dium	33	125
Gray	Limestone								
· · · · · ·									
								_	
31					<u> </u>				
32									75 80
41 WA		51	CASING & OPEN			Sizes of a		ar ³⁴⁻³⁸ Length	39-40
Water found at - feet	Kind of water	Inside diam inches		iness	Depth – feet n To			inches	feet
1	Fresh 3 Sulphur 14	6 10/4 5	Steel 12 18		0 4416	Material a	and type	Depth at top o	41-44
	☐ Salty ₆ ☐ Gas	*   2 L	Concrete						feet
	☐ Fresh 4 ☐ Minerals ☐ Salty 6 ☐ Gas	<u> </u>	) Plastic		20-23	61	PLUGGING & SEAL		
20-23	Fresh 4 Minerals	17-18 1	Galvanized			Depth set at -	Annular space	Abandonme	
1 1	⊔ Saity ₆ ⊡ Gas	5 15 15	] Concrete ] Open hole ] Plastic	4	4 125	From 10-13	To Material and type (	Cement grout, ber	tionite, etc.)
2528 1	□ Fresh 3 □ Sulphur ²⁹ □ Salty 4 □ Minerals 6 □ Gas	<u>16</u>	Steel 26		27-30	<b>21</b> 18-21	4 Grouted	- Cement	
		3	Galvanized			26-29	30-33 80		
	☐ Fresh 3 ☐ Gas	4 L 5 C	] Open hole ] Plastic						
Pumping test	method 10 Pumping rate	11-14 D	uration of pumping			10	CATION OF WELL		-
71 1 Pump 2	Bailer	5 GPM			In diagran	n below show	distances of well from	road and lot li	
	end of pumping Water levels		umping 2 🗌 Rec		Indicate n	orth by arrow.			
LS 19 21	22-24 15 minutes 3 26-28	0 minutes 4	5 minutes 60 minu 32-34	35-37					1
5 12 feet	16 feet 16 feet	16 feet	16 feet 16 Vater at end of test	feet					
19 21 12 feet 11 flowing give Recommende	rate 38-41 Pump intake set GPM	feet	Clear Clo	xudy			Wood	side	
Recommende	d pump type Recommended pump setting		ecommended ump rate	46-49			1 , 7000	۲ ⁻	
Shallow		90 feet		GPM	Lot#27				
FINAL STATU							<b>.</b>		
Water st		insufficient suppoor quality	ply 9 🗌 Unfinished 10 🔲 Replacement v	well		Ť	2		10
3 C Test hol	e 7 🗌 Abandoned	(Other)			Н	11'3"	0000		Poplarwood
					• 1	F1.	0 L		3
WATER USE	55 56 tic s 🗌 Commercia	1	9 🗌 Not used			Neranda	153		Ø
₁ 😭 Domest ₂ 🗋 Stock ₃ 🗋 Irrigatio	n 7 🗋 Public supp	ly	10 🛛 Other		G		50		0
₄ 🗋 Industri	al 3 🗋 Cooling & a	ir conditioning		-			+F		F
	CONSTRUCTION 57								
₁ 🛃 Cable t ₂ 🗄 Rotary	conventional 5 Air percuss	^{ion} 0444	9 🔲 Driving 10 🔲 Digging		Fle	ewellyn	Road.		0
₃ ☐ Rotary ₄ ☐ Rotary	(reverse) 7 🗋 Diamond		11 🗌 Other				-	L8279	y
L							F		e2 e0
Name of Well Cor		_	Well Contractor's Lice		Data source	58 Contraccto	558 ⁵³⁻⁶² Date	AN 0 8 1	<u>၀၀</u> န္
Capital Address	Water Supply Lt	d	1558			n L Z S	Inspector		114
	x 490 Syittsvil	le.Onta	to K2S 1A6	10					、 <u> </u>
				112	Remarks				$\Lambda$
S. MIlle	er/W.Kavanagh Injefan/Contractor		TOO97/TOO9! Submission date						$\langle \rangle$
	nonen		day 24 mo 12	yr 97 Ĭ				0500 /07 00	cont Er= ^
								0506 (07/94)	-ront Form 9

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Ministry of Epvironme and Errerg	ent		, <b>T</b> I	he Ontario Water WATER WE	Resource	es Act ORD
rint only in spac ark correct box	es provided. with a checkmark, where applica		1529795		Con. CON s	2 73 24
County or District	rloton	Township/Borough/City/To Goulbourn	vn/Village	Con block tract su	rvey, etc. Lot	25-27 <b>23</b>
wner's surname		Address		Date complete	d 1 Onday 1 2 mo	48-53
	Dimensions	B50-36 Antares Easting Northing		RC Basin Code if		iv
1 		OF OVERBURDEN AND BEDR	OCK MATERIALS (see instr			47
General colour	Most common material	Other materials		neral description	Der From	oth – feet To
	Hardpan	Slab Rocks	F	<u>i11</u>	0	20
ray ray	Limestone		He	ard	20	54
ray	Limestone		M	edium	54	83
ight Gra	y Limestone		M	edium	83	128
Brown	Limestone		S	oft	128	147
Gray	Limestone		S	oft		-200
31						
	TER RECORD 51 Inside	CASING & OPEN HOLE	RECORD Size	es of opening ³¹⁻³³ Diam t No.)	eter ^{34–38} Leng inches	jth ^{39⊸40} feet
Vater found at – feet	Kind of water diam inche	Material thickness inches	From To U Mat	erial and type	Depth at top	
20 20		Galvanized	0 22°	was de seg		feet
125	□ Fresh 3 □ Sulphur 19 4 □ Minerais □ Salty 6 □ Gas	4 Open hole 5 Plastic	20 23 61	PLUGGING & SE		
20-23 ; [		Galvanized     G	22 200 Depth s	et at - feet Material and typ	e (Cement grout, b	
	Fresh Minerals		27-30 20	4 Grouter	i Cement	(3)
30-33 1 [	□ Salty ⁴ □ Gas 24 □ Fresh 3 □ Sulphur ³⁴ □ Salty ⁴ □ Minerals □ Salty ⁶ □ Gas	2     Galvanized       3     Concrete       4     Open hole       5     Plastic	28-			
	Bailer     Solution       Water level end of pumping     25       22-24     15 minutes 26-28       65     feet       400/2012     61       rate     38-41       GPM	II-14     Duration of pumping       GPM	In diagram below s Indicate north by an Poplace		m road and lot	line.
FINAL STATU Water su Water su Cobserva Test hole Recharg	upply s Abandoned, insuffic ation well s Abandoned, poor q ie 7 Abandoned (Other)	cient supply 9 🗌 Unfinished uality 10 🗌 Replacement well				
WATER USE		₃ □ Not used 10 □ Other	שיירו פס <u>ב</u> דאיינו דאייב גד	] [C <u>Lot 39</u>		
METHOD OF Cable to Cable to Cable to Cable to Rotary A Rotary	CONSTRUCTION 57 tool 20-2005 Air percussion 0 (conventional) 6 Boring (reverse) 7 Diamond (air) 8 Jetting	→ 20         • □ Driving         10 □ Digging         11 □ Other	μ		18279	95
Name of Well Cor	ntactor Water Supply Ltd.	Well Contractor's Licence No. 1558	Data 58 Contraction		JAN 0 8	63-68
Address           Address           P.O. Box           Name of Well Tex	490 Stittsville,O	ntario K2S 1A6 Weil Technician's Licence No.				<b>V</b> 1
	M. Kayanagh	Well Technician's Licence No. TOO97/TOO95 Submission date	Remarks			۲ [.] (
ML	nall	day 19 mo 12 yr 97				

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The Ontario Water Resources Act WATER WELL RECORD

County or District	t		Township/	/Borough/City/	Town/Village			Con block	tract surve	y, etc. Lo	t 25 27
Ottava Ca			Address	ulbourn					9		<b>23</b>
			38 100	ue Dr	<u>enit 24</u> 1	5 Non	oan Oot	ario	Date completed	ogday <u>ς</u> m	onthoo year
21	T L		K2E 8A	Northing 5			ation HC	Basin Code			<b></b>
1_2	M 10	LOG OF C		18		ERIALS (	(see instrue	31 ctions)			47
General colour	Most common materi			ner materials			-	al description			pth – feet
Deer	0							7		From	<u>To</u>
Brown	Sandy Clay		St	ones			Pack	:ed		0	5
Brown	Sand						Wet			5	23
Gray	Hardpan		Bo	ulders			Pack			23	29
Gray	Limestone						Medi	um Hard		29	115
					· · · · ·						
											<u> </u>
31				<u>Lului lu</u>							
32			32				. 54				75 80
41 WA		51 Inside		OPEN HOL Wall	E RECORD Depth - f	eet	(01-4.41-	opening	1-33 Diameter	³⁴⁻³⁸ Leng	
at - feet	Kind of water	diam inches	Material	thickness inches	From	To		l and type		nches Depth at top	feet of screen 30
65 ²	Salty 6 Gas	6 1/4	Galvanized Concrete	-188	0	<b>40</b> [™]	N N				feet
2	] Fresh ³ [] Sulphur ¹⁹ 4 [] Minerals ] Salty ₅ [] Gas	5	Open hole     Plastic				61	PLUGGIN	G & SEALIN	G RECOR	D
20-23 BC	Fresh 24	2	Steel Steel Galvanized			20-23	Depth set a	Annular space		Abandonm	
	Salty 6 Gas Fresh 3 Sulphur 29		Concrete Open hole Plastic		40	115	From 10-13	To Mate	rial and type (Ce	ment grout, be	entonite, etc.)
2 [	☐ Salty ⁴ Minerals	24-25 ;	Galvanized			27-30	<b>39</b> 18-21	0 Gro	uted Cen	ent (8	)
30-33 ¹ [	] Fresh ³	3	Concrete     Open hole				26-29	30-33 80			
······			Plastic		· · · · · · · · · · · · · · · · · · ·						
71 Pumping test m			Duration of pumpir					CATION OF			$\rightarrow$
Static level e	Water level end of pumping Water levels of the second seco	during '🛣	Pumping 2			n diagram ndicate no	orth by arrov	v distances of v.	well from roa	ad and lot I	ine.
IS 19-21	²²⁻²⁴ 15 minutes 3 26-28	0 minutes 29-31	45 minutes 32-34	60 minutes 35–37			× .	<b>.</b> -	_		
If flowing give r	tate 16 feet 16 feet 38-41 Pump intake set	at feet	16 feet Water at end of tes	16 feet		For	<u>est (</u>	STOUE	Vr.		
	GPM	feet		Cloudy	89		i	<u>Srove</u>	۵"		1
Recommended	pump setting		pump rate	5 дрм			60"	<u>۷</u>	L G		i.
50-53		BO feet	· · · · · · · · · · · · · · · · · · ·	3 GFM	1		14		Ŭ		1
FINAL STATU	polv 5 🗌 Abandoned,	insufficient sup	pply ⁹ 🗌 Unfinish ¹⁰ 🗍 Replace	hed	6			-1005e			ŧ
<ul> <li>² Observat</li> <li>³ D Test hole</li> <li>⁴ Recharge</li> </ul>	7 🗋 Abandoned			entent wen	3		11			1	1
	55-56				Ш		ł				1
* Domestic 2 Stock			⁹ ☐ Notuse ¹⁰ ☐ Other				1	_ot #:	30		r
a ☐ Irrigation 4 ☐ Industria	⁷ 🔲 Public suppl						j	LOT .			
							re				
	ol Altroil 15 X Boring	^{on} 040	⁹ 🗌 Driving 10 🔲 Digging		. ~	000	510				
3 Rotary (r Rotary (r Rotary (a	everse) 7 🗌 Diamond	V -3V	[™] ☐ Digging [™] ☐ Other		レ	,0 <u> </u>	side			1838	867
Name of Well Cont	ractor		Well Contracto	r's Licence No.	NO Data source	5	58 Contracctor	58	59-62 Date rece		998
Capital W	later Supply Ltd	•	155	8		inspection		Inspector		4 4 1	<u> 710  </u>
P.O. Box Name of Well Tech	490 Stittsvill	e, Onta		n's Licence No.		s					
	CAR Karanagh		TOO97/TO Submission da		ISTR				CS	s. 🤅	sby
n/1/	11			ite							
Lipon	m		uaye 7 mo	<u>w yi 70</u>	I L					0500 (070 0)	Front Form 9

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Ontario Ministry of Environmen and Energy	<b>it</b>			<i>Ontario Water R</i> WATER WELI		
Print only in spaces Mark correct box w	s provided. vith a checkmark, where applicab	le. <u>11</u>	1530043	$ \begin{array}{c} \text{Municipality} & \text{Con.} \\ \underbrace{15} \\ 10 \\ \end{array} $	N	22 23 24
County or District		Township/Borough/City/T	own/Village	Con block tract survey	, etc. Lot	25-27
Ottawa Car	leton	Goulbourn Address		9 Date		25 48-53
		11 Forest Heig		completed	9 ay 6 moi	nth <b>98</b> year
21	T 10 12	K2S 1C3 ^{Northing}	RC         Elevation         RC           24         25         26         30			47
	LOG OF		ROCK MATERIALS (see instruct	•	Den	th – feet
General colour	Most common material	Other materials	General	description	From	То
Brown	Sand		Dry		0	6
Brown	Sandy Clay		Pack	ed	6	12
Gray	Sandy Clay		Ston	ed	12	18
Gray	Limestone				18	73
			· · · · · · · · · · · · · · · · · · ·			
31						
32						75 80
	R RECORD 51 Inside			opening ^{31–33} Diameter	³⁴⁻³⁸ Lengt	
Water found at – feet	Kind of water diam	Material thickness inches	From To		nches Depth at top o	feet
24	$3$ $3$ $3$ $3$ $1^{14}$ $4$ $3$ $3$ $3^{10}/4$ Salty $6$ $3^{10}/4$	1     Steel     12       2     Galvanized       3     Concrete	0 22. ¹³ 5 6 Material a			feet
15-18 1 D F	Salty 6 Gas	Open hole     Plastic	61	PLUGGING & SEALIN	G RECORI	כ
20-23 NOT	real STREUlphur 24 Salty 6 Gas	1  Steel  2  Galvanized  3  Concrete	Depth set at	- feet	Abandonme	
25-28 I D F	Fresh ³ Sulphur ²⁹	<ul> <li>Open hole</li> <li>Plastic</li> </ul>	22.5 73 From	To Material and type (Ce		
	Salty 4 Minerals 6 Gas 	1 Galvanized     Galvanized     Concrete	27-36 21 18-21	62-23 Grouted Cen 3-33 Hole Plug	ent (3) (1)	)
2 🗋 S	Fresh ³ ☐ Sulphur ³⁴ ⁶⁰ 4 ☐ Minerals Salty ₆ ☐ Gas	Open hole     Den hole     Den hole     Den hole	626-29		(1)	
71 Pumping test meth		15-16 17-18	LO	CATION OF WELL	. <u></u>	
	tor lovel 25	Pumping 2 Recovery	In diagram below show Indicate north by arrow.	distances of well from roa		ne.
	22-24 15 minutes 30 minutes 26-28 29-31	45 minutes 32-34 60 minutes 35-37		She	a KOL.	+
I filowing give rate	5 4 4 4 et al 12 1 4 4 et al 13 1 1 0 4 et al 13 1 1 0 4 et al 13 1 1 0 4 et al 14 e	t 1511eet 1514eet Water at end of test 42				
If flowing give rate	GPM fee	t 🗌 Clear 📮 Cloudy				
	Imp type Recommended 43-45 pump setting Deep 30 feet	pump rate		i		9
50-53				HOL A		0×
FINAL STATUS ( ¹ Water supply ² Observation	y 5 🗋 Abandoned, insufficient			+ K		1
3 Test hole 4 Recharge we	7 🔲 Abandoned (Other)			_ 22		5
WATER USE	55-56					احسالم
1 Domestic 2 B Stock	<ul> <li>⁵ Commercial</li> <li>⁶ Municipal</li> <li>⁷ Public supply</li> </ul>	<ul> <li>9 Dot used</li> <li>10 Dther</li> </ul>			t	1 11
3 🗌 Irrigation 4 🗌 Industrial	8 Cooling & air conditionin	ng	12		187	1
		9 🗌 Driving		<u></u>		K
Cable tool     Cable tool     Potary (conv     Rotary (reve	erse) 7 🗋 Diamond	<ul> <li>Driving</li> <li>Digging</li> <li>Other</li> </ul>	HuntleyRo	ad 0.C.*5	1838	97
₄ 🗌 Rotarý (air)	3 🗍 Jetting	· · · ·	1			
Name of Well Contract	tor	Well Contractor's Licence No.	Data 58 Contracctor source	59-62 Date rece	ived 2 2 19	63-68 BO
Capital Wa	ter Supply Ltd.	1558	Source Date of inspection	Inspector	<u> </u>	70
P.O. Box 4 Name of Well Technic	90 Stittsville, On	tario K2S 1A6 Well Technician's Licence No.	P Remarks			1
S. Miller		TOO97 Submission date	MINISTR	CSS	s. <u>s</u>	इ भे
Signature Technicia	an/Contractor	Submission date day 30 mo 6 yr 98	N N N N N N N N N N N N N N N N N N N			ND
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Ontarto Ministry of Environm	nent				er Resources Act ELL RECORD
Print only in space Mark correct box	ces provided. k with a checkmark, where applic	able. [11]	1530	046 Municipality	Con.  C
County or District		Township/Borough/City/	/Town/Village	Con block tract	survey, etc. Lot 25 27
Ottawa Ca Owner's surname	First name	Address		9	<b>24</b> 48-53
Technical	Dimensions Ltd	850 - 36 Anta	res Dr. Nep	comple	18ay 6 month 98year
21		Easting Northing		levation RC Basin Code	
		OF OVERBURDEN AND BED	ROCK MATERIAL	S (see instructions)	
General colour	Most common material	Other materials		General description	Depth – feet From To
Brown	Sandy Soil	Stones		Drv	
Gray	Limestone	Dark Lay	ers		9 130
•		4			
		:			
31					
32 10 41 WAT				1 54 68 31-33 Diar	neter ³⁴⁻³⁸ Length ³⁹⁻⁴⁰
Water found at – feet	FER RECORD 51 Inside Kind of water diam	Wali Material thickness	Depth – feet		inches feet
10-13 1	Fresh ³ Sulphur ¹⁴ inches 6 1 ⁰ /	4 1 Steet 12 2 Galvanized -188	From To	Material and type	Depth at top of screen 30
	Salty 6 □ Gas Fresh 3 □ Sulphur 19	<ul> <li>Concrete</li> <li>Open hole</li> </ul>			feet
127 2 0	Salty 6 Gas		20-23	61 PLUGGING & SE	ALING RECORD
	Salty 6 1/	2     Galvanized       3     Concrete       7     Galvanized	22.4 30	Depth set at – feet	pe (Cement grout, bentonite, etc.)
	Salby 4 Minerals	Plastic	22.04 JU 27-30	21 3 Grouted	- Cement (6)
30-33 1	Fresh ³ Sulphur ³⁴ ⁶⁰	2 Galvanized 3 Concrete 4 Open hole		26-29 30-33 80	<b>-</b>
2	Salty 6 Gas 5 7/	8 A Plastic	30 130		
71 Pumping test mo		¹⁴ Duration of pumping 15–16 17–18 2M <b>1</b> Hours Mins		LOCATION OF WELL	
	Vater level 45 Water levels during	Pumping 2 Recovery	In diagra Indicate	am below show distances of well fro north by arrow.	m road and lot line.
19-21	22-24 15 minutes 30 minutes 26-28 25	45 minutes 32-34 60 minutes 35-37			
Image: boot state     Image: boot state       If flowing give rate		eet 25 feet 25 feet Water at end of test 42		Grest Grove	
LS 19-21 SALE SALE SALE SALE SALE SALE SALE SALE	GPM f	eet Clear Cloudy -45 Recommended 46-49		5rest Grove	
	Deep 75 fe	pump rate		176" 111	
50-53					
FINAL STATUS ¹ Water sup ² Observation					
<ul> <li>³ Test hole</li> <li>4 Recharge</li> </ul>	7 D Abandoned (Other)			1-louse	
WATER USE	55-56				
<ol> <li>Domestic</li> <li>Stock</li> <li>Irrigation</li> </ol>	<ul> <li>⁵ Commercial</li> <li>⁶ Municipal</li> <li>⁷ Public supply</li> </ul>	9 🖸 Not used 10 🗋 Other	,	Lot #24	
4 🗌 Industrial	<ul> <li>a Cooling &amp; air conditio</li> </ul>	ning		· · · ·	
		9 🗋 Driving			
<ul> <li>2 Cable too</li> <li>2 Rotary (co</li> <li>3 Rotary (re</li> <li>4 Rotary (ai</li> </ul>		Image: Second se			183883
a □ Hotary (a) Name of Well Contra		Well Contractor's Licence No.	Data	58 Contracctor 59-62 Dat	te received 63-66 80
	later Supply Ltd.	1558	Source	1558	JUI 2 2 1998
144.000	490 Stittøville, G	ntario K25 146			
	/W. Kavanagh Jan/Contractor	TOO97/TOO95 Submission date	Remarks NI NI	69	S. S9
Signature of Technic	A	day 22 mo 6 yr 98	N N N N N N N N N N N N N N N N N N N		0506 (07/94) Front Form 9

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rint only in spaces ark correct box w	s provided. ith a checkmark, where applicable		153021			2 23 2
County or District		Township/Borough/City/		Con block tract s	urvey, etc. Lot	25-27 24
		Address P.O. BOX 98	Greely, Ontario	Date	ted 15 y 8 mon	48-53 ath <b>98</b> es
1	T L	P.O. Box 98 Northing	RC Elevation	RC Basin Code ii		iv i
2	LOG OF	OVERBURDEN AND BED		instructions) General description	Dept	h – feet
General colour	Most common material	Other materials		Dry	From O	<u> </u>
Brown	Sand Hardpan	Boulders		Payked	5	_ 1
Brown Gray	Hardpan	Boulders		Packed	16	2
Gray	Limestone			Hard	25	10
Vater found at - feet         1           10-13         1           2         2           15-18         1           2         2           1032         1           2032         1           2032-28         1           21-28         1           30-33         1	Salty     •     Minerals     Gas       Fresh     3     Sulphur     19       4     Minerals     Minerals       Salty     •     Gas       Hesh     •     Gas       Fresh     •     Gas	32       CASING & OPEN HOL       Material     Wall       Material     Wall       Material     Wickness       inches     Steel       Galvanized     • 188       Open hole     •       Plastic     Concrete       Open hole     •       Concrete     •       Open hole     •       E Galvanized     •       Concrete     •       Open hole     •       E Plastic     •       I Steel     19       Concrete     •       Open hole     •       Plastic     •	Depth - feet         To           From         To           0         40           20-23         6           40         50	Sizes of opening 31-33 Dia (Siot No.) Material and type 1 PLUGGING & SE Annular space Depth set at - feet From To Material and ty 10-13 14-17	Abandonmype (Cement grout, be	of screen 41-44 feet D ent ntonite,
Static level en 19-21 9 feet 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 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	Bailer     25     GPM       ater level d of pumping     25     Water levels during     1       22-24     15 minutes 38-31     30 minutes 29-31     30 minutes 29-31       10 feet     10 feet     10 feet       10 feet     10 feet     10 feet       10 gep     Recommended pump setting     43-45       10 Deep     54       0F WELL     54       of Well     54       of well     6	Duration of pymping 	Indicate north			ne.
<ol> <li>Cable tool</li> <li>Kotary (co</li> <li>Rotary (re</li> </ol>	55-56 5 Commercial 6 Municipal 7 Public supply 8 Cooling & air conditionin CONSTRUCTION 57 57 57 57 57 57 57 57 57 57	- ₽ □ Driving		496	346" 1947	707
A      Rotary (air Name of Well Contra	r) s 🗌 Jetting	Well Contractor's Licence No 1558	D. Data 58 source Date of inspection	Contractor 558 59-62 D	Date received	1998
Name of Well Techn		Ontario K2S 1A6 Well Technician's Licence N TOO97/TOO95 Submission date			SS. ES9	

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Ministry of Environment and Energy	۲ ۲ ۲		Ontario Water Resources Act WATER WELL RECORD
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County or District	Township/Borough/City/Town/All	hage rlefm	Con block tract survey, etc. Lot 2-27 Date Completed 2 7 72 day month yea
	Northing	MATERIALS (see instruct	Basin Code + 4i iii iv
General colour Most common material	Other materials		I description Depth - feet From To
Shay finestore	100 pered	· · · · · · · · · · · · · · · · · · ·	
<b>C</b>			
Vater found t - feet 10-13 1 D Fresh 2 Study 14 - Gest 1 - 15 - 15 - 15 - 15 - 15 - 15 - 15 -	CASING & OPEN HOLE REC Walterial thickness Steel ¹² Galvanized Concrete Open hole Plastic	Depth - feet	opening 31-33 Diameter 34-38 Length 39- inches fe and type Depth at top of screen 41-44 feet
20-23       1       Fresh; 4       3       Sulphur 24         2       Salty 6       Gas       3         23-28       1       Fresh; 3       Sulphur 29         2       Salty 6       Gas       4         21-28       1       Fresh; 3       Sulphur 29         2       Salty 6       Gas       4         21-28       1       Fresh 3       Sulphur 29         2       Salty 6       Gas       2         30-33       1       Fresh 3       Sulphur 34         30-33       1       Fresh 4       Minerals	Steel     19       Galvanized     Concrete       Open hole     Plastic       Plastic     26       Balvanized     Concrete	20-23 20-23 Depth set at From 38-13 16-21 23-20 24-25 27-30 27-30 27-30 28-23 16-21 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-25 28-	PLUGGING & SEALING RECORD Annular space Abandonment t - feet To 14-17 22-24 30-33 80
20-23       1       Fresh, 3       Sulphur       24         2       Saity       6       Gas       3         23-28       1       Fresh, 3       Sulphur       29         2       Saity       6       Gas       3         30-33       1       Fresh, 3       Sulphur       34       60         30-33       1       Fresh, 3       Sulphur       34       60         2       Saity       6       Gas       24-25       1         30-33       1       Fresh, 3       Sulphur       34       60         2       Saity       6       Gas       24-25       1         30-33       1       Fresh, 3       Sulphur       34       60         2       Saity       6       Gas       5       24-25         1       Pumping test method       10       Pumping rate       0       10         1       Pump 2       Bailer       Water level       6       30       minutes         5       Static level       Water level       30       minutes       29-31         19-21       22-24       15 <minutes< td="">       30       minutes       29-31     <td>Steel     19       Galvanized     Concrete       Open hole     Plastic       Plastic     26       Galvanized     Concrete       Open hole     Plastic       Plastic     17-18       uration of pumping     17-18      </td><td>20-23 Depth set at From 366-13 18-21 18-21</td><td>Annular space Abandonment t - feet To Material and type (Cement grout, bentonite, et</td></minutes<>	Steel     19       Galvanized     Concrete       Open hole     Plastic       Plastic     26       Galvanized     Concrete       Open hole     Plastic       Plastic     17-18       uration of pumping     17-18	20-23 Depth set at From 366-13 18-21 18-21	Annular space Abandonment t - feet To Material and type (Cement grout, bentonite, et
20-23       1       Fresh, *       Sulphur       2         2       Salty       6       Gas       *       3         21-24       1       Fresh, *       Sulphur       2*         2       Salty       6       Gas       *       5         2       Salty       6       Gas       *       *       5         30-33       1       Fresh, *       Sulphur       *       *       *       2         30-33       1       Fresh, *       Sulphur       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *	Steel       19         Galvanized       Concrete         Open hole       Plastic         Steel       26         Galvanized       Concrete         Open hole       Plastic         Uration of pumping       17-18         urping       2         Recovery       15         15       feet         feet       feet         if eet       feet         Clear       Cloudy         Recommended       46-49         ump rate       CaPM         ply 9       Unfinished         10       Replacement well         1       0         9       Not used         10       Other         10       Driving         10       Digging	20-23 Depth set at From 366-13 18-21 In diagram below show	Annular space Abandonment t - feet To 14-17 22:32 30-33 80 DCATION OF WELL w distances of well from road and lot line. W. Shim Jlov FlawCllyn
20-23       1       Fresh, *       Sulphur       2         2       Salty       6       Gas       *       3         21-24       1       Fresh, *       Sulphur       2*         2       Salty       6       Gas       *       5         2       Salty       6       Gas       *       *       5         30-33       1       Fresh, *       Sulphur       *       *       *       2         30-33       1       Fresh, *       Sulphur       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *       *	Steel       19         Galvanized       Concrete         Open hole       Plastic         Plastic       26         Open hole       Plastic         Uration of pymping       17-18         urping       2         Plastic       60 minutes         32-34       55-37         feet       feet         feet       feet         Clear       Cloudy         Recommended       46-49         ump rate       CaPM         ply ⁹ Unfinished         10       Replacement well         1       0         9       Driving         10       Other         9       Driving         10       Other         11       Other         12       Well Contractor's Licence No.	Data Sa Contractor	Annular space Abandonment t- feet To 14-17 22.2 30-33 P0 DCATION OF WELL w distances of well from road and lot line. M Shim JIOU Flawellyn Havellyn 192750

Ministry of Environment and Energy					Ontario Wate WATER W		
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County or District		Township/Borough/City/	Town/Village		Con block tract s	urvey, etc. Lot	25-27
OttaWi Carlo	ton	Address	<b>ì</b>		9 Date		<b>24</b> 48-53
		Technical Dim	rension	Homes 36 Ant	ares comple	Z ay Z mo	onth <b>99</b> rear
21	T 1012		:10_K2	BC Elevation BC	Basin Code ii		
		FOVERBURDEN AND BED	ROCK MA	FERIALS (see instructi			
General colour M	fost common material	Other materials		General	description	From	oth – feet To
Brown	Sand	Gravel		Beckf	<u>i11</u>	<b>o</b>	3
Gray	Hardpan	Gravel		Packe	d	3	6
Gray	Limestone			Mediu	<b>n</b>	6	74
Dark Gray	Limestone			Mediu	n	74	123
Ligh Reddish	Limestone			Mediu	<b>n</b>	123	140
Gray	Limestone			Mediu	a	140	200
			:				
31							
32							75 80
41 WATER REC	Inside	CASING & OPEN HOL Wall Material thickness	E RECORD Depth -		bening ³¹⁻³³ Diam	inches	h ^{39⊸40} feet
10-13   Eresh 3	Sulphur ¹⁴ inches	inches	From O	feet     Z     Slot No. }       To     No. 1     Material ar       25 ¹⁶ No. 1     Material ar	nd type	Depth at top o	
<u>90</u> ^{• □ Sarty} ₆	Gas 6 1/	4 Steel 12 2 Galvanized 3 Concrete 4 Open hole		25"			feet
15-18 1 ⊡ Fresh 3 2 ⊡ Salty 6		Steel		61	PLUGGING & SE		
²⁰⁻²³ ¹ □ Fresh ³ 2  □ Salty 4	Sulphur ²⁴ Minerals	2 Galvanized 3 Goncrete		Depth set at –	Material and typ	Abandonme	
23-24 NOLesTE	Subphur ²⁹	84 😰 Open hole 5 🗍 Plastic	25	200 From 10-13	14-17		
2 🗌 Salty 🔓		1     Steel     26       2     Galvanized       3     Concrete		27-30 23,5	3 Brouted	- Hole Pl	ug (4)
² Salty ₆	☐ Minerals ☐ Gas	Open hole     Plastic		26-29	30-33 80		
71 Pumping test method	¹⁰ Pumping rate ¹¹⁻¹	15-16 17-18		LOC	ATION OF WELL		
Static level Water level	25 Water levels during	M Hours Mins		n diagram below show on diagram below show of notice the second stress of the second stress o			ne.
end of pump	•	45 minutes 60 minutes		ndicate north by arrow.	Poplarw	ood	
	eet 40 feet 5]fee	et 60eet 60 feet			Roplacus Noodsid Ar	P	
If flowing give rate 38	PM Fump intake set at	Water at end of test 42 et Clear 📮 Cloudy		ì	Nooden	30	
	e Recommended 43-4 pump setting	⁴⁵ Recommended ⁴⁶⁻⁴⁹ pump rate			A		
Shallow Deep 50-53	150 tee	et <b>5</b> GPM					az
FINAL STATUS OF WE	54 5 Abandoned, insufficien	t supply ⁹ 🔲 Unfinished	l y		Lot #L House #	5	Road
<ol> <li>Water supply</li> <li>Observation well</li> <li>Test hole</li> </ol>	Abandoned, poor quali Abandoned (Other)		Grove		Lot	10	- uh
4 🛛 Recharge well	8 Dewatering			House	House "	2)	1
VATER USE ¹ Domestic ² Stock	55-56 5 ] Commercial 6 ] Municipal	9 🗌 Not used	17	13' 1. 10	_		well
<ul> <li>² Stock</li> <li>³ Irrigation</li> <li>⁴ Industrial</li> </ul>	<ul> <li>7 Device Public supply</li> <li>8 Cooling &amp; air condition</li> </ul>	10 🗌 Other		K bara	age		8
METHOD OF CONSTR			17				F
Cable tool     Conventional     Botary (reverse)	UCTION 1	25 ⁹ Driving 10 Digging				40.40	$\frac{1}{1}$
<ul> <li>a Rotary (conventional</li> <li>a Rotary (reverse)</li> <li>4 Rotary (air)</li> </ul>	7 Diamond 8 Jetting	11 Dither				1948	23
				58 Contractor	59-62 Date	toroinot	63-68 80
Name of Well Contractor	. <u></u>	Well Contractor's Licence No.		00110 000101	Sur Sur	PR 1 3 19	99
Address Pital Wate		1558		f inspection In	spector V		
P.O. Box 490 Name of Well Technician	Stittsville,	Ontario K2S 1A6 Well Technician's Licence No.	110~1	ks		CSS.ES	•
Kavanach	actor /	TOO95 Submission date	MINISTI			C00.E0	7
Halter	Lovancich	day23 mo 2 yr 99	Ī				
		-				0506 (07/94) F	ront Form 9

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Alters     Construction     One set is server, etc. [at is server, etc.	Ministry of Environme and Energ	ent		n n transformation de la construcción		<i>Ontario Water R</i> WATER WEL		
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21         Norm         22         Bodul         22         Bodul         22         Bodul         23         Bodul         24         10           Conse de door         Medicareon malmid         Other materials         O	County or District	arloton	Address	urn		9 Date completed		48-
Construction       Log of oveRpUnDer AND BEDROCK MATERIALS (see hambedrons)         Carrier dotor       Most cannuts market       Other maturits       General description         Brown       Sand & gravel       Pill       Other maturits       General description         Crear       Linestone       Modt and up of the second sec	21	Ţ			RC Elevation RC	Basin Code ii		iv i
General calor     Most control mathemal     Other mathemal       Brown     Sand # gravel       Gray     Linestone       Brown     Linestone       Brown     Linestone       Gray     Sandat gravel       Gray     Sandat gravel       Gray     Linestone       Brown     Linestone       Gray     Sandat gravel       Gray     Calore       Gray     Calore       Grave     Grave       Grave     Grave       Grave     Grave       Job     Grave       J	2	10 12	DF OVERBURDEN AND BED	ROCK MA			Dent	
Cray       Lisestone       Hedium       5       9         Brown       Lisestone       Hedium       97       14         Gray       Sandstone       Hard       147       17         Gray       Sandstone       Hard       147       17         Gray       Sandstone       Hard       147       17         Gray       Constant       Ender       Ender       Ender       Ender         Internet       Constant       Ender       Ender       Ender       Ender       Ender         Internet       Constant       Ender	General colour	Most common material	Other materials		General	· · · · · · · · · · · · · · · · · · ·		
Brown     Linestone       Gray     Sandstone       Gray	Brown	Sand <b>å</b> gravel		<u>_</u>	Fill		0	
Gray     Sandstone     Hard     147     17       Image: Sandstone     Hard     141     141       Image: Sandstone     Hard     141     141       Image: Sandstone     Image: Sandstone     Image: Sandstone     Image: Sandstone	_Gray						-	- 9
37     37       38     37       39     37       30     37       31     37       32     37       33     37       34     37       35     37       36     1.0       37     1.0       38     0       39     1.0       39     1.0       39     1.0       31     1.0       32     1.0       33     1.0       34     1.0       35     1.0       36     1.4       37     1.0       38     1.0       39     1.0       39     1.0       31     1.0       32     1.0       37     1.0       38     1.0       39     1.0       39     1.0       39     1.0       1.0     1.0       39     1.0       39     1.0       39     1.0       39     1.0       1.0     1.0       1.0     1.0       1.0     1.0       1.0     1.0       1.0     1.0        1.0								
32       And Control of the second of the seco	Gray	Sandstone			Hard		147	17
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22	31	÷						
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Interiment       Total Statutes       From       Total       From       Total         Image: Ima						ppening ^{31–33} Diameter	34-38 Length	1
100	at – feet	Kind of water diam inches	Material thickness inches		To Material a			
		Santy 6 🗌 Gas	4 Galvanized	0	22" 0			
2       Satury       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       - <td>2 []</td> <td>Salty 6 Gas</td> <td>5 🗍 Plastic</td> <td></td> <td>20-23</td> <td></td> <td></td> <td></td>	2 []	Salty 6 Gas	5 🗍 Plastic		20-23			
3-3-4     1     Denth *     Bit bit *     1     Bit *     Bit * <t< td=""><td></td><td>Salty 4 Minerals</td><td><ul> <li>2 Galvanized</li> <li>3 Concrete</li> </ul></td><td>22</td><td>Depth set at -</td><td>- feet Material and type (Ce</td><td></td><td></td></t<>		Salty 4 Minerals	<ul> <li>2 Galvanized</li> <li>3 Concrete</li> </ul>	22	Depth set at -	- feet Material and type (Ce		
W-31               Participation                Concrete          W-31              Cases               Concrete          Participation              Cases               Concrete          Participation              Cases               Participation               Concrete          Participation              Participation               Participation               Concrete               Concrete          Participation              Participation               Participation               Participation               Concrete               Concrete             Concrete               Concrete             Concrete             Concrete               Concrete             Concrete             Concrete             Concrete             Concrete             Concrete             Concrete             Concrete             Concrete             Concrete             Concrete             Concrete             Concrete             Concrete             Concrete             Concrete             Concrete             Concrete             Concrete             Concre	25-28 1	Fresh ³ Sulphur ²⁹ Salty ⁴ Minerals 24-25		22	10-13	14-17	- Ceneni	t
Pumping uset intered       Pumping rate       Interest Mins         State level       Water levels       State level       Water levels       Mins         State level       Water levels       Water levels       Water levels       Mins         State level       Water levels       Water levels       Water levels       Mins         State level       Water levels       Water levels       Water levels       Mins         State level       Water levels       State       State       State       State         State       State       State       State       State       State       State       State       State       State       State       State       State       State       State       State       State       State       State       State       State       State       State       State       State       State       State       State       State       State       State       State       State       State       State       State       State       State       State       State       State       State       State       State       State       State       State       State       State       State       State       State       State       State       State	30-33 1	Fresh ³ Sulphur ³⁴ ⁶⁰	<ul> <li>2 Galvanized</li> <li>3 Concrete</li> <li>4 Open hole</li> </ul>					
1       Porng * B Baler       Totas       Water levels       Water levels </td <td></td> <td></td> <td>Duration of numping</td> <td>l</td> <td></td> <td></td> <td></td> <td></td>			Duration of numping	l				
Image: Status       Status       Abandoned, insufficient supply       Image: Status       Imag		Bailer 15+ GP	M	×	LOI In diagram below show	CATION OF WELL distances of well from roa	ad and lot lin	1e. j
Image of Well Contractor       Abandoned, insufficient supply *       Unfinished         *       Abandoned, insufficient supply *       Unfinished         *       Abandoned, insufficient supply *       Abandoned, insufficient supply *         *       Abandoned, insufficient supply *       Abandoned, insufficient supply *         *       Abandoned, insufficient supply *       Abandoned, insufficient supply *         *       Abandoned, insufficient supply *       Performance         *       Domestic       >         *       Domestic       *       Commercial         *       Domestic       *       Commercial         *       Public supply       *       Not used         *       Cooling & air conditioning       *       Not used         *       Cooling & air conditioning       *       Diriving         *       Cooling & air conditioning       *       Digging         *       Hotary (convertices)       *       Diagong         *       Boring       *       Diagong       *         *       Retary (convertices)       *       Diagong       *         *       Boring       *       Diagong       *       *         *       Boring	Static level en	nd of pumping Water levels during 22-24 15 minutes 30 minutes	45 minutes 60 minutes	1×	Indicate north by arrow.			
Invator supply       Abandoned, insufficient supply       Untinished         Image: Construction well       Abandoned, insufficient supply       Image: Construction for the construction for			eet ac feet acfeet		Flewe	lyn Rd		
Image of Well Contractor       Abandoned, insufficient supply       Image of Well Contractor       Image of Well Contractor         Image of Well Contractor       Source       Image of Well Contractor       Image of Well Contractor         Name of Well Contractor       Well Contractor's Licence No.       Image of Well Contractor       Image of Well Contractor's Licence No.         Name of Well Contractor       Source       Image of Melle Source       Image of Melle Source       Image of Melle Source         Name of Well Contractor       Well Contractor's Licence No.       Image of Melle Source       Image of Melle Source       Image of Melle Source         Name of Well Contractor       Source       Source       Image of Melle Source<	If flowing give ra	Pump intake set at	water at end of test		-1	- side	-	
Invator supply       Abandoned, insufficient supply       Untinished         Image: Construction well       Abandoned, insufficient supply       Image: Construction for the construction for	_	pump setting	pump rate		01	Woodstee	)	ŧ
Industrial       Abandoned, insufficient supply       Unfinished         Image: Construction well       Abandoned, insufficient supply       Image: Construction for the construction of the construlation of the con	50-53	<b>X</b> 100 Is	et5GPM		άt			4
a) Test hole 7 Abandoned (Other) 4 Recharge well 9 Dewatering WATER USE 5-56 9 Ormercial 9 Not used 9 Other 9 Othe					C			I
WATER USE       5-54 ¹ Domestic ⁵ Commercial ¹ Municipal ¹ Municipal ¹ Other ¹ Stock ⁶ Municipal ¹ Industrial ¹ Oching & air conditioning ¹ Cable tool 20, 177 ⁵ ¹ Air percussion 0-22 ¹ Cable tool 20, 177 ⁵ ¹ Bring ¹ Bring ¹ Other ¹ Bring ¹ Other ¹ Bring ¹ Other ¹ Bring ¹ Other ¹ Rotary (reverse) ¹ Other ¹ Bring ¹ Other ¹ Rotary (ait) ¹ Other ¹ Botary (ait) ¹ Other ¹ Botary (ait) ¹ Other ¹ Other	3 🗌 Test hole	7 📋 Abandoned (Other)	· · ·					
*					10	29'		
METHOD OF CONSTRUCTION ⁵⁷ Cable tool 20, 177 ⁵ Air percussion 0-22 ⁹ Driving ¹ Cable tool 20, 177 ⁵ Boring 0-22 ⁹ Driving ¹⁰ Digging ¹⁰ Digging ¹⁰ Other		7 D Public supply	10 🗋 Other		_			
Image: Cable tool 20177 Section 1000       Image: Problem tool 1000       Image: Problem toool 1000       Image: Problem toool 1000       I	1 🛛 Industrial	⁸ 🗌 Cooling & air condition	ning			جر 		
3       Rotary (reverse)       7       Diamond       1       Other       194049         4       Rotary (air)       8       Jetting       1       Other       194049         Name of Well Contractor       Well Contractor's Licence No.       Image: Contractor Section		UNSTRUCTION						
Name of Well Contractor     Mell Contractor     Source     1558       Address     1558     JUN 1 4 1999       Date of inspection     Inspector       Name of Well Technician     Science No.       Source     1558       Name of Well Technician     Science No.       Source     1558       Name of Well Technician     Science No.       Source     1558       Name of Well Technician     Science No.       Source     Submission date	ঃ 🗌 Rotary (re	verse) 7 🗌 Diamond	10 Digging     11 Other				1948	49
Address Addres	Name of Well Contra	actor	Well Contractor's Licence No.	Data		59-62 Date rece	eived	63-68
P.O. Box 490       Stittsville, Ontario       K2S 1A6         Name of Well Technician       Well Technician's Licence No.       Image: Remarks         S.o. Miller       TOO97       Submission date       Submission date				<b>INO</b> Date	<u> </u>		N 1 4 19	999
S Miller TO097 CSS.ES9	•		Ontario K2S 1A6				9000	
Stemptre of Technician/Contractor	So Mille	r,	т0097	ISTR)	1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	C	CSS.ES	9
and the maximum of the second s	Signature of Technic	sian/Contracto	Submission date	MIN				

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Environment

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Print only in spaces provided. Mark correct box with a checkmark, where applicable. The Ontario Water Resources Act WATER WELL RECORD

Municipality Con. 09

County or District			Township/I	Borough/City/1	own/Village			Con blo	ck tract survey	/, etc. I	_ot 25-27
Obligue (	leni eken		Address	Goulbo	urn			1	9 Date		<b>2.4</b> 48-53
			P.O. B	ox 955	Stitts		Ontari	۰		7 ^{day} 8	month Oppar
21	U_		k2S 1B	Northing		RC Eleva	ation RC	Basin Cod			
	M 10		OVERBURDEN	AND BEDR		ERIALS (s	ee instructi	ons)			47
General colour	Most common materi			er materials				description		Dej From	oth - feet To
										0	5
Brown	Sand		<u> </u>				<u></u>				
Gray	Limesto	ne –					Með	lium		5	60
Gray	Limesto	ne	<u> </u>	. <u></u>			Har	<u></u>		60	90
Black	Stone		St	ale						90	110
	· · · · · · · · · · · · · · · · · · ·								<u>.</u>		
				16 are	<u> </u>		<u> </u>			<u> </u>	
							····				
							<u>.</u>				
31											
32											
	ER RECORD	51	CASING & OI					opening	31-33 Diameter	³⁴⁻³⁸ Le	angth 39-40
Water found at - feet	Kind of water	Inside diam inches	Material	Wall thickness inches	Depth From	feet To				inches	feet
12 0	☐ Fresh ³ ☐ Sulphur ¹⁴ 4 ☐ Minerals 5 Salty 5 ☐ Gas	6 174	1 Steel 12 2 Galvanized	<b>.18</b> 8	0	22.5	S	and type		Jepin at 1	feet
106 - L	Gas Gas Gas Gas Gas Gas Minerals		<ul> <li>³ Concrete</li> <li>⁴ Open hole</li> </ul>								
2 [	Salty 6 Gas	17-18	5   Plastic			20-23		Annular spa	G & SEALING	Abando	
1 1	□ Fresh 4 □ Minerals □ Salty 6 □ Gas	6	<ul> <li>2          Galvanized</li> <li>3          Concrete</li> <li>4          Open hole     </li> </ul>	1	22.5	60	Depth set a	at - feet To	aterial and type (Ce	ement grout	, bentonite, etc.)
	□ Fresh ³ □ Sulphur ²⁹ ⁴ □ Minerals	24-25	5 □ Plastic     1 □ Steel     26			27-30	<b>21</b> ¹⁰⁻¹³		routed -	Cemer	nt
20.22	□ Erech ³ □ Sulphur ³⁴ ⁶⁰		2 🗍 Galvanized		60	110	18-21 26-29	22-25 30-33 80			
2 [	□ Fresh ₁ □ Minerals □ Salty ₅ □ Gas	5 7/8	X Open hole     Dentities		60	110	20.29	30-33 86			
	Bailer Water level end of pumping     22-24     15 minutes     26-28     40 feet rate     38-41     Pump intake se     GPM	30 minutes 29-31 40 fee t at fee	Pumping 45 minutes 32:34 45 minutes 32:34 45 feet Water at end of tee t Clear Flecommended pump rate	Mins  Recovery  60 minutes 35-37		In diagram Indicate r	m below sho horth by arro		F WELL s of well from	road and	lot line.
FINAL STATU	JS OF WELL 54					Y.	$\Theta \downarrow$	H9222			
¹ Grwater su ² Observat	upply ⁵ □ Abandonec tion well ⁶ □ Abandonec	l, poor quality				A					
<ul> <li>³          Test hole</li> <li>⁴         Recharge</li> </ul>	e 7 🗌 Abandoneo					1	Lot 36				
WATER USE 1 C Domestic 2 Stock 3 Irrigation 4 Industrial	n 7 🔲 Public supp	bly		8		H					
		sion 0-22	<ul> <li>⁹ Driving</li> <li>¹⁰ Digging</li> <li>¹¹ Other</li> </ul>	9			Flew	ellyr	Rd	208	8435
Name of Well Con	ntractor		Well Contract	or's Licence No.	Data source		58 Contractor	(EO	59-62 Date rece SEF		63-68 80
Capital	Water Supply I	td.	155	8		of inspection		558	JCF	- 13	1999
P.O. BC Name of Well Tech		ille, (			BSN NIN Rem	arks				CSS	
S. MT11 Signature of Techr	nician/Contractor		Submission d	ate							
ally	Kanan		day <b>18</b> mo	-	┙└╧╵			<u></u> .		0506 (1	1/98) Front Form 9
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🕅 Onta	rio Ministry of the Environment		TI	he Ontario Wat WATER W		
	•	$\frac{11}{1-z}$	1530890	Municipality	Con. Clork1 1 1 1 15	22 -3 -4
County or District		Township/Borough/City/Town/Vi	illage .	Con (block tract s	urvey, etc. Lot	25.2*
	lerloton	Goulbour	<u>n</u>	9		24
		Box 190 Carp, (	Ontario KOA 1LO	Basin Code ii	ted <b>30</b> tay 10 mo	nth 99 ar 9
21				31		
Image: Second structure       Ministry of the Environment         Print only in spaces provided.       11       1530890         Mark correct box with a checkmark, where applicable.       11       1530890         County or District       Township/Borough/City/Town/Village       6001 Dourn         Address       Box 190 Carp, Ontario KOA       Northing         21       Image: Count of the Elevation       10         21       Image: Count of the Elevation       10         21       Image: Count of the Elevation       10         Count of District       Image: Count of the Elevation       10         Image: Count of the Count of	MATERIALS (see instruct	ions)				
General colour	Most common material	Other materials	Genera	al description	Depth From	To
Brown	Soil	Broken Rock			0	6
Gray	Limestone		Medi	um Soft	6	75_
				and a second of the second of		
				16° - 1		

31											
32											
41 W	ATER RECORD	51	CASING & OF	PEN HOLE	RECORD			opening	31-33	Diameter 34-38	Length 39.40
Water found at - feet	Kind of water	Inside diam inches	Material	Wall thickness inches	Depth From	- feet To	(Siot No.			inches	
10-13 <b>54</b> 15-18	1         Fresh         3         Sulphur         14           2         Satty         6         Gas           NOT         Fresh         4         Minerals	6 17	1 Galvanized     1 Galvanized     1 Concrete     4 Open hole     1	.188	0	22	Material	and type		Dep	h at top of screen
	□ Salty 5 Gas	17-18	⁵ □ Plastic ¹ □ Steel ¹⁹			20.23		100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100		EALING RE	
20-23	1         Fresh         3         Sulphur         24           2         Salty         5         Gas	6 1/	2 Galvanized 3 Concrete 4 X Open hole		22	50	Depth set a From	То М			pandonment grout, bentonite, etc.)
25-28	1         Fresh         3         Sulphur         29           2         Salty         4         Minerals           6         Gas	24-25	5			27-30	10-13 21 18-21	<b>0</b> 22-25	Groui	ted - Ce	ment (3)
30-33	1         Fresh         3         C         Sulphur         34         6           2         Salty         5         C         Gas	° 5 7/	3 🗌 Concrete		50	75	26-29	30 33 80	1		

71	Pumping test method ¹⁰	Pumping rate 11-14	Duration of pump	bing 17-18 Mins	LOCATION OF WELL
L L	Static level end of pumping	25	Pumping 2		In diagram below show distances of well from road and lot line. Indicate north by arrow.
G TEST	19-21 22-24	15 minutes 26-25 30 minutes 29-31	45 minutes 32-34	60 minutes 35-37	
PUMPING	18110# 1912#et	19 feet 19 1 feet	19*2*et	1972 met	
l₽.	If flowing give rate	Pump intake set at	Water at end of te	est	- Forest Grove
ΙŽ	GPM	feet	🗌 Clear	Gioudy	
1	Recommended pump type	Recommended 43-45	Recommended	46-49	
	🗆 Shallow 🛛 📮 Deep	pump setting 50 feet	pump rate	r GPM	
	50-53	50		5	
					īlā I.
FI	NAL STATUS OF WELL	54			
		5 Abandoned, insufficient su 6 Abandoned, poor quality	pply ⁹ 🗌 Unfinis ¹⁰ 🔲 Replac		
	³ Test hole	Abandoned, poor quality ⁷ Abandoned (Other)		Settletit Meti	
		⁸ Dewatering			1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
W	ATER USE	55-56			
1			9 🗌 Not us		
	² ☐ Stock 3 ☐ Irrigation	6 🔲 Municipal 7 🔲 Public supply	10 Li Other	· · · · · · · · · · · · · · · · · · ·	Lot #28 1 3
		⁸ Cooling & air conditioning			
					Lot #28 1 Lot #28 1
M	ETHOD OF CONSTRUC	TION 57			$11 \qquad $
1		5 🗌 Air percussion	⁹ 🗌 Driving	1	1 20 , 05 1
	² Cable tool 50-75 Rotary (conventional)	⁶ 🗆 Boring	10 Digging		
	³ Rotary (reverse)	7 Diamond B Jetting	11 🗌 Other		208492
	⁴ <b>x</b> ^{Rotary (air)} 0-50				[] <b>2</b> 00452
	· · · · · · · · · · · · · · · · · · ·				
Na	me of Well Contractor		Well Contract	or's Licence No	Data 58 Contractor 5 5 9 62 Date received 63 68 80
	Capital Water	Supply Itd	155	0	bala of inspection Hospector
Ad	dress	Subbra root	200	<b>Q</b>	Date of inspection Inspector
		Stittsville,Or	torio 20	C 116	
Na	P.U. BOX 490	STICEATTEVOL	Well Technicia	an's Licence No	
				and mooned he	
	S. Miller		TOO Submission d	97	
Sig	nature of Technician/Contractor		Submission d	late	
X.	Martinan.	61.	day <b>30</b> mo	10 yr 99	2
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^{0506 (11/98)} Front Form 9

Print only in spa Mark correct bo	x with a checkmark, where applica	able.	11	15	3102	26		nicipality 5 0 0 3 14	Con.	<b>N</b>	22
County or District	1- Carloton	Township/	/Borough/City/I	Fown/Village			Con	block tract	survey,	etc. Lo	t 224
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41 WA	TER RECORD						of opening	³¹⁻³³ Di	65 iameter	34-38 Leng	
41 WAT Water found at - feet	Kind of water     51	Material	OPEN HOLE Wall thickness inches	43 E RECORD Depth – From	feet			^{31–33} Di	incl	hes	ith :
$\frac{10}{41} \frac{14}{WA}$ Water found at - feet	Fresh     Sulphur       Sulphur     10-11	Material 1 1 Steel 12 2 Galvanized 3 Concrete	Wall thickness inches	Depth -	feet To 13-16	(Slot N E	0.)	³¹⁻³³ Di	incl		ith :
10 14 41 WA Water found at - feet 15-18 1 2 2 1 2 1 2 1 2 1 1 2 1 2 1 2	Fresh     Sulphur       Fresh     Sulphur       Fresh     Sulphur       Salty     Gas	Material 1 1 Steel 12 2 Galvanized 3 Concrete 4 Open hole 5 Plastic 1 Steel 19	Wall thickness	Depth -	feet To 13-16	N (Slot N H Materia S 61	o.) al and type <b>PLUG</b>	GING & S	inch D EALING	hes repth at top	th of screen 41-44 feet
10 44 41 WA Water found at - feet 15-18 1 2 20-23 1 2 20-23 1 2 2 1	Fresh.       Sulphur         Fresh.       Sulphur         Fresh.       Sulphur         Salty       Gas	Material       Material       1     Steel     12       2     Galvanized       3     Concrete       4     Open hole       5     Plastic       1     Steel     19       2     Galvanized       3     Concrete       4     Concrete       4     Open hole	Wall thickness inches	Depth - From	feet To 13-16 <b>2.2</b> 20-23	N (Slot N H Materia S 61	o.) al and type PLUG Annular at - feet To	GING & S	ind D EALING	hes epth at top RECOR Abandonm	th of screen 41-44 feet ID nent
10 14 41 WA Water found at - feet 10-13 1 2 15-18 1 2 20-23 1 2 2 2 2 2 2 2 2 2 2 2 2 2	Fresh       51         Kind of water       Inside diam inches         Fresh       Sulphur         Fresh       Sulphur         Satty       Gas         Fresh       Minerals         Satty       Gas         Fresh       Sulphur         Fresh       Sulphur         Satty       Gas         Fresh       Sulphur         Satty       Gas         Fresh       Minerals         Satty       Zas	Material Material Steel 12 Galvanized Galvanized Copen hole Plastic 1 Steel 19 2 Galvanized 3 Concrete 4 Gopen hole 5 Plastic 1 Steel 28	Wall thickness inches	Depth – From	feet To 13-16 <b>2.2</b>	(Slot N       Materia       61	o.) al and type PLUG Annular : at - feet	GING & S space Material and	ind D EALING	hes epth at top RECOR Abandonm	th of screen 41-44 feet ID nent
$\begin{array}{c c} & 1 \\ 1 \\ \hline 41 \\ \hline Water found \\ at - feet \\ \hline 10-13 \\ 15-18 \\ 15-18 \\ 1 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2$	Kind of water       51         Kind of water       Inside diam inches         Fresh       Sulphur         Fresh       Sulphur         Satty       Gas         Fresh       Minerals         Satty       Gas         Fresh       Sulphur         Satty       Gas         Fresh       Sulphur         Fresh       Sulphur         Satty       Gas         Fresh       Sulphur         Satty       Gas         Fresh       Sulphur         Fresh       Sulphur         Satty       Gas         Fresh       Sulphur         Fresh       Sulphur         Satty       Gas	Material Material Steel 12 Galvanized Galvanized Copen hole Plastic Seel 19 Concrete Galvanized Concrete Den hole Plastic 1 Steel 26 Material	Wall thickness inches	Depth - From	feet To 13-16 <b>22</b> 20-23 <b>20</b>	61 Depth set a From 10 ⁻¹³	o.) al and type PLUG Annular : at - feet To 22	GING & S space Material and	incl D EALING type (Ceme	hes epth at top RECOR Abandonm	th of screen 41-44 feet ID nent
$\begin{array}{c c} & 1 \\ \hline 1 \\ \hline 41 \\ \hline Water found \\ at - feet \\ \hline 10-13 \\ 15-18 \\ 15-18 \\ 1 \\ 2 \\ 2 \\ 20-23 \\ 1 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2$	Fresh.       51         Fresh.       Sulphur         Fresh.       Sulphur         Satty       Gas         Fresh.       Sulphur         Minerals       Gas         Satty       Satty         Satty       Gas	Material           Material           1         Steel         12           2         Galvanized           3         Concrete           4         Open hole           5         Plastic           1         Steel         19           2         Galvanized         19           3         Concrete         100 Open hole           5         Plastic         11           1         Steel         28           2         Galvanized         20 Open hole           5         Plastic         12           4         Open hole         28           5         Plastic         12           4         Open hole         29           2         Galvanized         20           3         Concrete         10           4         Open hole         10           5         Plastic         11           14         Duration of pumpin	Wall thickness inches / 88	Depth - From	feet To 13-16 <b>22</b> 20-23 27-30	61 Depth set a From 10-13 26-29	o.) al and type PLUG Annular at - feet To 22-25 30-33 (	GING & S space Material and	inci EALING type (Ceme Ient	hes epth at top RECOR Abandonm	of screen 41-44 feet ID nent
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	TER RECORD       51         Kind of water       Inside diam inchess         Fresh       Sulphur         Fresh       Sulphur         Salty       Gas         Fresh       Gas         Salty       Gas         Salty       Gas         Salty       Gas         Salty       Gas         Salty       Gas         Bailer       Zalp         Bailer       Zalp	Material       1     Steel     12       2     Galvanized       3     Concrete       4     Open hole       5     Plastic       1     Steel     19       2     Galvanized       3     Concrete       4     Open hole       5     Plastic       1     Steel     26       2     Galvanized       3     Concrete       4     Open hole       5     Plastic       1     Steel     26       2     Galvanized       3     Concrete       4     Open hole       5     Plastic	Wall thickness inches / 88	Depth - From O C Zo	feet To 13-16 <b>22</b> 20-23 27-30	61 Depth set a From 10-13 26-29 Lucebool of the set of the se	o.) al and type PLUG Annular at - feet To 22-25 30-33 ( OCATION w distanc	GING & S space Material and CPM	inct EALING type (Cerrent Cerrent Cerrent	RECOR Abandonm	th of screen feet tD entonite, e
10     14       41     WA       41     WA       Water found at - feet     1       10-13     1       20-23     1       20-23     1       20-23     1       20-23     1       20-23     1       21     20-23       20-23     1       21     21       23-33     1       2     2       30-33     1       2     2       30-33     1       2     2       71     Purmping test m       Year     Year       Static level     Year	TER RECORD       51         Kind of water       Inside diam inchess         Fresh       Sulphur         Fresh       Sulphur         Fresh       Sulphur         Salty       Gas         Salty       Gas         Fresh       Sulphur         Salty       Gas         Vater level       Minerals         Bailer       Marer levels during         Vater level       P         Mater levels during       Mater levels during         M	Material       1     Steel     12       2     Galvanized       3     Concrete       4     Open hole       5     Plastic       1     Steel     19       2     Galvanized       3     Concrete       4     Open hole       5     Plastic       1     Steel     26       2     Galvanized       3     Concrete       4     Open hole       5     Plastic       1     Steel       26     Galvanized       3     Concrete       4     Open hole       5     Plastic	Wall thickness inches <b>188</b> <b>188</b> Mins Mins Mins Mins 60 minutes 35-37	Depth - From O C Zo	feet To 13-16 <b>222</b> 20-23 27-30 27-30 27-30	61 Depth set a From 10-13 26-29 Lucebool of the set of the se	o.) al and type PLUG Annular at - feet To 22-25 30-33 ( OCATION w distanc	GING & S space Material and CPM	inct EALING type (Cerrent Cerrent Cerrent	RECOR Abandonm	th of screen feet tD entonite, e
10         14           41         WA           41         WA           Water found at - feet         1         2           10-13         1         2         2           10-13         1         2         2           20-23         1         2         2           20-23         1         2         2           20-23         1         2         2           20-23         1         2         2           20-23         1         2         2           20-23         1         2         2           20-33         1         2         2           30-33         1         2         2           71         Purmping test m         Y         Purmp 2         1           Static level         Y         Y         Y         Y	TER RECORD       51         Kind of water       Inside diam inchess         Fresh       Sulphur         Fresh       Sulphur         Salty       Gas         Fresh       Gas         Salty       Gas         Salty       Gas         Salty       Gas         Pumping rate       Inclose         Bailer       Water levels during         Mot of pumping       Yes         Vater level       Support         See       feet         feet       feet         feet       feet	Material       1     1       2     Galvanized       3     Concrete       4     Open hole       5     Plastic       1     Steel       1     Steel       2     Galvanized       3     Concrete       4     Open hole       5     Plastic       1     Steel       2     Galvanized       3     Concrete       4     Open hole       5     Plastic       1     Steel       2     Galvanized       3     Concrete       4     Open hole       5     Plastic       14     Duration of pumpir       15     Plastic       16     Pumping       2     32-34       32-34     32-34       45     minutes       32-34     1eet       Water at end of tes	Wall thickness inches / 88 / 88 / 88 / 88 / 88 / 88 / 88 /	Depth - From O C Zo	feet To 13-16 <b>222</b> 20-23 27-30 27-30 27-30	61 Depth set a From 10-13 26-29 Lucebool of the set of the se	o.) al and type PLUG Annular at - feet To 22-25 30-33 ( OCATION w distanc	GING & S space Material and CPM	inct EALING type (Cerrent Cerrent Cerrent	RECOR Abandonm	th of screen feet tD entonite, e
10     44       41     WA       41     WA       Water found at - feet     2       10-13     1       15-18     1       20-23     1       21-28     1       22-23     1       22-23     1       21-28     1       20-23     1       21     2       20-33     1       21     2       25-28     1       2     2       21     2       22-23     1       2     2       21     2       22-28     1       2     2       20-33     1       2     2       30-33     1       2     2       31     2       2     2       31     2       2     2       31     2       32     2       31     2       32     2       33     2       4     2       4     3       5     4       5     4       5     4       6     4       7     1       9	Fresh       51         Fresh       Sulphur         Fresh       Sulphur         Fresh       Sulphur         Satty       Gas         Satty       Gas         Fresh       Sulphur         Satty       Gas         Satty       Sadat         Sate       Gas <td>Material         1       Steel       12         2       Galvanized         3       Concrete         4       Open hole         5       Plastic         1       Steel       19         2       Galvanized         3       Concrete         4       Open hole         5       Plastic         1       Steel       26         2       Galvanized         3       Concrete         4       Open hole         5       Plastic         1       Steel       26         3       Concrete         4       Open hole       5         5       Plastic       11         1       Duration of pympin       11         M      </td> <td>Wall thickness inches <b>188</b> <b>188</b> <b>188</b> <b>188</b> <b>188</b> <b>188</b> <b>188</b> <b>188</b> <b>188</b> <b>188</b> <b>188</b> <b>188</b> <b>188</b> <b>188</b> <b>188</b></td> <td>Depth - From O C Zo</td> <td>feet To 13-16 <b>222</b> 20-23 27-30 27-30 27-30</td> <td>61 Depth set a From 10-13 26-29 Lucebool of the set of the se</td> <td>o.) al and type PLUG Annular : at - feet To 22-25 30-33 ( OCATION w distanc w.</td> <td>iGING &amp; S space Material and COM No I OF WELL es of well fr</td> <td>ind EALING Upe (Ceme 1ent Ient</td> <td>RECOR Abandonm ent grout, be</td> <td>th of screen feet feet ine.</td>	Material         1       Steel       12         2       Galvanized         3       Concrete         4       Open hole         5       Plastic         1       Steel       19         2       Galvanized         3       Concrete         4       Open hole         5       Plastic         1       Steel       26         2       Galvanized         3       Concrete         4       Open hole         5       Plastic         1       Steel       26         3       Concrete         4       Open hole       5         5       Plastic       11         1       Duration of pympin       11         M	Wall thickness inches <b>188</b> <b>188</b> <b>188</b> <b>188</b> <b>188</b> <b>188</b> <b>188</b> <b>188</b> <b>188</b> <b>188</b> <b>188</b> <b>188</b> <b>188</b> <b>188</b> <b>188</b>	Depth - From O C Zo	feet To 13-16 <b>222</b> 20-23 27-30 27-30 27-30	61 Depth set a From 10-13 26-29 Lucebool of the set of the se	o.) al and type PLUG Annular : at - feet To 22-25 30-33 ( OCATION w distanc w.	iGING & S space Material and COM No I OF WELL es of well fr	ind EALING Upe (Ceme 1ent Ient	RECOR Abandonm ent grout, be	th of screen feet feet ine.
10       14         41       WA         41       WA         Water found at - feet       2         10-13       1         2       2         15-18       1         20-23       1         21       2         20-23       1         21       2         20-23       1         21       2         20-23       1         21       2         20-33       1         2       2         30-33       1         2       2         30-33       1         2       2         30-33       1         2       2         30-33       1         2       2         30-33       1         2       2         19-21       1         1       1         19-21       1         1       1         1       1         1       1         1       1         1       1         1       1         1       1 <td>TER RECORD       51         Kind of water       Inside diam inches         Fresh       Sulphur         Fresh       Sulphur         Saity       Gas         Fresh       Sulphur         Minerals       Gas         Saity       Gas         Fresh       Sulphur         Minerals       Gas         Saity       Gas         Fresh       Sulphur         Minerals       Gas         Saity       Saity</td> <td>Material         1       Steel       12         2       Galvanized         3       Concrete         4       Open hole         5       Plastic         1       Steel       19         2       Galvanized         3       Concrete         4       Open hole         5       Plastic         1       Steel       26         2       Galvanized         3       Concrete         4       Open hole         5       Plastic         1       Steel       26         3       Concrete         4       Open hole       5         5       Plastic       11         1       Duration of pympin       11         M      </td> <td>Wall thickness inches / 88 / 88 / 88 / 88 / 88 / 88 / 188 / 188 /</td> <td>Depth - From O C Zo</td> <td>feet To 13-16 <b>222</b> 20-23 27-30 27-30 27-30</td> <td>61 Depth set a From 10-13 26-29 Lucebool of the set of the se</td> <td>o.) al and type PLUG Annular : at - feet To 22-25 30-33 ( OCATION w distanc w.</td> <td>iGING &amp; S space Material and COM No I OF WELL es of well fr</td> <td>ind EALING Upe (Ceme 1ent Ient</td> <td>RECOR Abandonm ent grout, be</td> <td>th of screen feet feet ine.</td>	TER RECORD       51         Kind of water       Inside diam inches         Fresh       Sulphur         Fresh       Sulphur         Saity       Gas         Fresh       Sulphur         Minerals       Gas         Saity       Gas         Fresh       Sulphur         Minerals       Gas         Saity       Gas         Fresh       Sulphur         Minerals       Gas         Saity       Saity	Material         1       Steel       12         2       Galvanized         3       Concrete         4       Open hole         5       Plastic         1       Steel       19         2       Galvanized         3       Concrete         4       Open hole         5       Plastic         1       Steel       26         2       Galvanized         3       Concrete         4       Open hole         5       Plastic         1       Steel       26         3       Concrete         4       Open hole       5         5       Plastic       11         1       Duration of pympin       11         M	Wall thickness inches / 88 / 88 / 88 / 88 / 88 / 88 / 188 /	Depth - From O C Zo	feet To 13-16 <b>222</b> 20-23 27-30 27-30 27-30	61 Depth set a From 10-13 26-29 Lucebool of the set of the se	o.) al and type PLUG Annular : at - feet To 22-25 30-33 ( OCATION w distanc w.	iGING & S space Material and COM No I OF WELL es of well fr	ind EALING Upe (Ceme 1ent Ient	RECOR Abandonm ent grout, be	th of screen feet feet ine.
10       44         41       WA         41       WA         Water found at – feet       2         15–13       1         15–13       1         20–23       1         20–23       1         21–24       1         25–28       1         21–23       1         22–23       1         21       2         25–28       1         2       2         30–33       1         1       Pumping test im         1       Pump 2         1       Static level         1       feet         19–21       1         19–21       1         19–21       1         11       1         11       1         13       1         14       1         15–21       1         16       1         11       1         11       1         12       1         13       1         14       1         15–21       1         16       1	TER RECORD       51         Kind of water       Inside diam inchess         Fresh       Sulphur         Fresh       Sulphur         Salty       Gas         Salty       Gas         Fresh       Sulphur         Salty       Gas         Salty       Gas         Salty       Gas         Salty       Gas         Salty       Gas         Vater level       Minerals         Monerals       30 minutes         Pumping       Yes         Vater level       15 minutes         Monerals       30 minutes         Sefect       feet         feet       feet         gPM       feet         pump stype	Material       1     Steel     12       2     Galvanized       3     Concrete       4     Open hole       5     Plastic       1     Steel     19       2     Galvanized       3     Concrete       4     Open hole       5     Plastic       1     Steel     26       2     Galvanized       3     Concrete       4     Open hole       5     Plastic       1     Steel       2     Galvanized       3     Concrete       4     Open hole       5     Plastic	Wall thickness inches IB8 IB8 IB8 IB8 IB8 IB8 IB8 IB8	Depth - From O C Zo	feet To 13-16 <b>222</b> 20-23 27-30 27-30 27-30	61 Depth set a From 15-21 26-29 Characterized Characterized Control of the set a Control of the set a	o.) al and type PLUG Annular : at - feet To 22-25 30-33 ( OCATION w distanc w.	GING & S space Material and CPM	ind EALING Upe (Ceme 1ent Ient	RECOR Abandonm ent grout, be	th of screen feet feet ine.
10       14         41       WA         Water found at - feet       2         10-13       1         20-23       1         20-23       1         20-23       1         20-23       1         21       2         20-23       1         21       2         20-23       1         21       2         230-33       1         2       2         30-33       1         2       19-21         19-21       19-21         19-21       11         19-21       11         19-21       11         19-21       11         19-21       11         11       11         11       11         11       11         11       11         11       11         11       11         12       11         13       12         14       11         15       11         16       11         17       11         18       11 <td>TER RECORD       51         Kind of water       Inside diam inches         Fresh       Sulphur         Fresh       Sulphur         Saity       Gas         Vater level       Soft         nd of pumping       Water levels during         Vater level       Soft         feet       feet         feet       feet         gPM       Soft         Pump intake set at       GPM         GPM</td> <td>Material       1     Steel     12       2     Galvanized       3     Concrete       4     Open hole       5     Plastic       1     Steel     19       2     Galvanized       3     Concrete       4     Open hole       5     Plastic       1     Steel     26       2     Galvanized       3     Concrete       4     Open hole       5     Plastic       1     Steel       2     Galvanized       3     Concrete       4     Open hole       5     Plastic</td> <td>Wall thickness inches IB8 IB8 IB8 IB8 IB8 IB8 IB8 IB8</td> <td>Depth - From O C Zo</td> <td>feet To 13-16 <b>222</b> 20-23 27-30 27-30 27-30</td> <td>61 Depth set a From 15-21 26-29 Characterized Characterized Control of the by arrow</td> <td>o.) al and type PLUG Mannular s at - feet To 222 30-33 ( OCATION w distanc w.</td> <td>iGING &amp; S space Material and COM No I OF WELL es of well fr</td> <td>ind EALING Upe (Ceme 1ent Ient</td> <td>RECOR Abandonm ent grout, be</td> <td>th of screen feet feet ine.</td>	TER RECORD       51         Kind of water       Inside diam inches         Fresh       Sulphur         Fresh       Sulphur         Saity       Gas         Vater level       Soft         nd of pumping       Water levels during         Vater level       Soft         feet       feet         feet       feet         gPM       Soft         Pump intake set at       GPM         GPM	Material       1     Steel     12       2     Galvanized       3     Concrete       4     Open hole       5     Plastic       1     Steel     19       2     Galvanized       3     Concrete       4     Open hole       5     Plastic       1     Steel     26       2     Galvanized       3     Concrete       4     Open hole       5     Plastic       1     Steel       2     Galvanized       3     Concrete       4     Open hole       5     Plastic	Wall thickness inches IB8 IB8 IB8 IB8 IB8 IB8 IB8 IB8	Depth - From O C Zo	feet To 13-16 <b>222</b> 20-23 27-30 27-30 27-30	61 Depth set a From 15-21 26-29 Characterized Characterized Control of the by arrow	o.) al and type PLUG Mannular s at - feet To 222 30-33 ( OCATION w distanc w.	iGING & S space Material and COM No I OF WELL es of well fr	ind EALING Upe (Ceme 1ent Ient	RECOR Abandonm ent grout, be	th of screen feet feet ine.
10       44         41       WA         41       WA         Water found at – feet       2         10–13       1         15–13       1         15–13       1         20–23       1         21–24       2         25–28       1         2       2         20–23       1         2       2         25–28       1         2       2         20–33       1         2       2         21       2         22–28       1         2       2         20–33       1         2       2         30–33       1         2       2         5       Pumping test m         9       Pump 2         1       1         1       1         1       1         1       1         1       1         1       1         1       1         1       1         1       1         1       1         1       <	TER RECORD       51         Kind of water       Inside diam inchess         Fresh       Sulphur         Saity       Gas         Saity       Gas         Fresh       Sulphur         Saity       Gas         Vater level       Minerals         Morerals       30 minutes         Pumping       Yet         Vater level       feet         feet       feet         gen       feet         gen       Abandoned, insufficier         pump type       Abandoned, insufficier         pump setting       Fe	Material       1     Steel     12       2     Galvanized       3     Concrete       4     Open hole       5     Plastic       1     Steel     19       2     Galvanized       3     Concrete       4     Open hole       5     Plastic       1     Steel     26       2     Galvanized       3     Concrete       4     Open hole       5     Plastic       1     Steel       2     Galvanized       3     Concrete       4     Open hole       5     Plastic	Wall thickness inches / B8 / B8 / Mins Mins Mins Mins Mins Mins Mins Cloudy 46-19 Cloudy 46-19 Cloudy 46-19 Cloudy	Depth - From O C Zo	feet To 13-16 <b>222</b> 20-23 27-30 27-30 27-30	61 Depth set a From 15-21 26-29 Characterized Characterized Control of the by arrow	o.) al and type PLUG Mannular s at - feet To 222 30-33 ( OCATION w distanc w.	iGING & S space Material and COM No I OF WELL es of well fr	ind EALING Upe (Ceme 1ent Ient	RECOR Abandonm ent grout, be	th of screen feet feet ine.
10       44         41       WA         41       WA         Water found at – feet       1         10-13       1         10-13       1         10-13       1         10-13       1         20-23       1         21       2         20-23       1         21       2         23-28       1         2       2         21       2         23-23       1         2       2         23-23       1         2       2         30-33       1         2       2         21       2         22-22       1         2       2         23-23       1         2       19-21         2       19-21         3       1 feet         9       19-21         11       19-21         12       19-21         13       1 feet         14       Recommended         3       10         15       10         16       10	TER RECORD       51         Kind of water       Inside diam inchess         Fresh       Sulphur         Fresh       Sulphur         Salty       Gas         Fresh       Gas         Salty       Gas         Salty       Gas         Salty       Gas         Salty       Gas         Soliphur       Sulphur         Pumping rate       Minerals         Gas       Sulphur         Sulphur       Sulphur         Soliphur       Sulphur         Sulphur       Sulphur         Sulphur       Sulphur         Sulphur       Sulphur         Sulphur <td>Material          Material         1       Steel       12         2       Galvanized         3       Open hole         5       Plastic         1       Steel       19         2       Galvanized         3       Concrete         4       Open hole         5       Plastic         1       Steel       26         2       Galvanized         3       Concrete         4       Open hole         5       Plastic         1       Steel       26         3       Concrete         4       Open hole         5       Plastic         1       Duration of pumpir         M      </td> <td>Wall thickness inches / 88 / 88 / 88 / 188 / 18</td> <td>Depth - From O C Zo</td> <td>feet To 13-16 <b>222</b> 20-23 27-30 27-30 27-30</td> <td>61 Depth set a From 15-21 26-29 Characterized Characterized Control of the by arrow</td> <td>o.) al and type PLUG Annular at - feet To 22-25 30-33 ( OCATION w distance w.</td> <td>I OF WELL es of well fr</td> <td>ind EALING Impre (Cerne Pert rom road</td> <td>epth at top</td> <td>th of screen feet ID entonite, e ine.</td>	Material          Material         1       Steel       12         2       Galvanized         3       Open hole         5       Plastic         1       Steel       19         2       Galvanized         3       Concrete         4       Open hole         5       Plastic         1       Steel       26         2       Galvanized         3       Concrete         4       Open hole         5       Plastic         1       Steel       26         3       Concrete         4       Open hole         5       Plastic         1       Duration of pumpir         M	Wall thickness inches / 88 / 88 / 88 / 188 / 18	Depth - From O C Zo	feet To 13-16 <b>222</b> 20-23 27-30 27-30 27-30	61 Depth set a From 15-21 26-29 Characterized Characterized Control of the by arrow	o.) al and type PLUG Annular at - feet To 22-25 30-33 ( OCATION w distance w.	I OF WELL es of well fr	ind EALING Impre (Cerne Pert rom road	epth at top	th of screen feet ID entonite, e ine.
10       44         41       WA         41       WA         Water found at - feet       2         10-13       1         10-13       2         10-13       1         20-23       1         20-23       1         21       2         20-23       1         21       2         20-23       1         21       2         25-28       1         2       2         20-33       1         2       2         30-33       1         2       2         20-23       1         21       2         225-28       1         2       2         30-33       1         2       2         2       1         2       1         2       1         2       1         2       1         2       1         2       1         2       1         2       1         3       1         1       1	TER RECORD       51         Kind of water       Inside diam inchess         Fresh       Sulphur         Fresh       Sulphur         Salty       Gas         Fresh       Gas         Salty       Gas         Salty       Gas         Salty       Gas         Salty       Gas         Soliphur       Sulphur         Pumping rate       Minerals         Gas       Sulphur         Sulphur       Sulphur         Soliphur       Sulphur         Sulphur       Sulphur         Sulphur       Sulphur         Sulphur       Sulphur         Sulphur <td>Material          Material         1       Steel       12         2       Galvanized         3       Open hole         5       Plastic         1       Steel       19         2       Galvanized         3       Concrete         4       Open hole         5       Plastic         1       Steel       26         2       Galvanized         3       Concrete         4       Open hole         5       Plastic         1       Steel       26         3       Concrete         4       Open hole         5       Plastic         1       Duration of pumpir         M      </td> <td>Wall thickness inches / 88 / 88 / 88 / 188 / 18</td> <td>Depth - From O C Zo</td> <td>feet To 13-16 <b>222</b> 20-23 27-30 27-30 27-30</td> <td>61 Depth set a From 15-21 26-29 Characterized Characterized Control of the by arrow</td> <td>o.) al and type PLUG Annular at - feet To 22-25 30-33 ( OCATION w distance w.</td> <td>I OF WELL es of well fr</td> <td>ind EALING Impre (Cerne Pert rom road</td> <td>epth at top</td> <td>th of screen feet ID entonite, e ine.</td>	Material          Material         1       Steel       12         2       Galvanized         3       Open hole         5       Plastic         1       Steel       19         2       Galvanized         3       Concrete         4       Open hole         5       Plastic         1       Steel       26         2       Galvanized         3       Concrete         4       Open hole         5       Plastic         1       Steel       26         3       Concrete         4       Open hole         5       Plastic         1       Duration of pumpir         M	Wall thickness inches / 88 / 88 / 88 / 188 / 18	Depth - From O C Zo	feet To 13-16 <b>222</b> 20-23 27-30 27-30 27-30	61 Depth set a From 15-21 26-29 Characterized Characterized Control of the by arrow	o.) al and type PLUG Annular at - feet To 22-25 30-33 ( OCATION w distance w.	I OF WELL es of well fr	ind EALING Impre (Cerne Pert rom road	epth at top	th of screen feet ID entonite, e ine.
10       41         41       WA         41       WA         Water found at - feet       1         1       2         15-13       1         20-23       1         21-13       2         20-23       1         21       2         23-23       1         2       2         23-23       1         2       2         23-23       1         2       2         23-23       1         2       2         23-23       1         2       2         23-23       1         2       2         30-33       1         2       2         2       2         30-33       1         2       2         30-33       1         2       19-21         4       feet         19-21       1         4       Recommended         3       Shallow         2       Observati         3       Water sup         2       Stock	Fresh.       51         Fresh.       Sulphur         Fresh.       Sulphur         Saity       Gas         Sulphur       Minerals         Saity       Gas         Sulphur       Sulphur         Saity       Gas         Sulphur       Sulphur         A bandoned       GeP <td< td=""><td>Material          Material         1       Steel       12         2       Galvanized         3       Concrete         4       Open hole         5       Plastic         1       Steel       19         2       Galvanized         3       Concrete         4       Open hole         5       Plastic         1       Steel       26         2       Galvanized         3       Concrete         4       Open hole         5       Plastic         1       Duration of pumpir        </td><td>Wall thickness inches / BB / BB / / BB / / / / / / / / / / /</td><td>Depth - From O C Zo</td><td>feet To 13-16 <b>222</b> 20-23 27-30 27-30 27-30</td><td>61 Depth set a From 15-21 26-29 Characterized Characterized Control of the by arrow</td><td>o.) al and type PLUG Annular at - feet To 22-25 30-33 ( OCATION w distance w.</td><td>I OF WELL es of well fr</td><td>ind EALING Impre (Cerne Pert rom road</td><td>epth at top</td><td>th of screen feet ID entonite, e ine.</td></td<>	Material          Material         1       Steel       12         2       Galvanized         3       Concrete         4       Open hole         5       Plastic         1       Steel       19         2       Galvanized         3       Concrete         4       Open hole         5       Plastic         1       Steel       26         2       Galvanized         3       Concrete         4       Open hole         5       Plastic         1       Duration of pumpir	Wall thickness inches / BB / BB / / BB / / / / / / / / / / /	Depth - From O C Zo	feet To 13-16 <b>222</b> 20-23 27-30 27-30 27-30	61 Depth set a From 15-21 26-29 Characterized Characterized Control of the by arrow	o.) al and type PLUG Annular at - feet To 22-25 30-33 ( OCATION w distance w.	I OF WELL es of well fr	ind EALING Impre (Cerne Pert rom road	epth at top	th of screen feet ID entonite, e ine.
10       41         41       WA         41       WA         Water found at - feet       1         10-13       1         15-13       1         20-23       1         21-13       1         22-23       1         21-28       1         21-28       1         21-28       1         21       2         21-28       1         2       2         21-28       1         22-23       1         2       2         230-33       1         2       2         30-33       1         2       2         31       1         2       2         31       1         2       2         2       2         5       5         16       10         17       Pumping test m         18       19-21         19       19-21         19       10         11       10         11       10         11       10	TER RECORD       51         Kind of water       Inside diam inchess         Fresh       Sulphur         Fresh       Sulphur         Saity       Gas         Soft       Feet         feet       feet         feet       feet         gas       Gas         Soft       Feet         feet       feet         gait       Gabandoned, insufficier	Material          Material         1       Steel       12         2       Galvanized         3       Concrete         4       Open hole         5       Plastic         1       Steel       19         2       Galvanized         3       Concrete         4       Open hole         5       Plastic         1       Steel       28         2       Galvanized         3       Concrete         4       Open hole         5       Plastic         1       Steel         2       Galvanized         3       Concrete         4       Open hole         5       Plastic         1       Duration of pumpir	Wall thickness inches / BB / BB / / BB / / / / / / / / / / /	Depth - From O C Zo	feet To 13-16 <b>222</b> 20-23 27-30 27-30 27-30	61 Depth set a From 15-21 26-29 Characterized Characterized Control of the by arrow	o.) al and type PLUG Annular at - feet To 22-25 30-33 ( OCATION w distance w.	I OF WELL es of well fr	ind EALING Impre (Cerne Pert rom road	epth at top	th of screen feet ID entonite, e ine.
10       41       WA         41       WA       WA         Water found at - feet       2       2         10-13       1       2       2         15-13       1       2       2         20-23       1       2       2         20-23       1       2       2         21-28       1       2       2         20-23       1       2       2         21-23       1       2       2         23-28       1       2       2         20-23       1       2       2         21-24       1       2       2         21-25       1       2       2         21-27-28       1       2       2         21-27-28       1       2       2         21-27-28       1       2       2         21-27-28       1       2       2         21-27-28       1       2       2         21-27-28       1       2       2         21-27-28       1       2       2         21-27-28       1       2       2         21-27-28       1<	FR RECORD       51         Kind of water       Inside diam inches         Fresh       Sulphur         Fresh       Sulphur         Saity       Gas         Saity       Saity         Saity       Saity         Saity<	Material         1       Steel       12         2       Galvanized         3       Concrete         4       Open hole         5       Plastic         1       Steel       19         2       Galvanized         3       Concrete         4       Open hole         5       Plastic         1       Steel       26         2       Galvanized         3       Concrete         4       Open hole         5       Plastic         1       Steel       26         2       Galvanized         3       Concrete         4       Open hole         5       Plastic         1       Duration of pumpin         M	Wall thickness inches / 88 / 88 / 88 / 88 / 88 / 188 / 188	Depth - From O O C C C C C C C C C C C C C C C C C	teet To 13-16 ZZ 20-22 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 2	61 Depth set a From 15-21 26-29 Characterized Characterized Control of the by arrow	o.) al and type PLUG Annular : at - feet To 22.2 30-33 ( OCATION w distanc W.	I OF WELL es of well fr	incl EALING type (Cerrent Pert rom road	epth at top	th of screen feet ID entonite, e ine.
10       41       WA         41       WA       WA         Water found at - feet       2       2         10-13       1       2       2         15-13       1       2       2         20-23       1       2       2         21-13       1       2       2         20-23       1       2       2         21-23       1       2       2         21-23       1       2       2         21-23       1       2       2         21-23       1       2       2         21-24       1       2       2         21-25-28       1       2       2         21-25-28       1       2       2         21-25-28       1       2       2         21-25-28       1       2       2         21-25-28       1       2       2         21-21       1       1       1         15       Pumping test methode       1       1         21-23       1       1       1       1         21-3       Test hole       2       1	FR RECORD       51         Kind of water       Inside diam inchess         Fresh       Sulphur         Fresh       Sulphur         Salty       Gas         Fresh       Sulphur         Salty       Minerals         Gas       Gas         Fresh       Sulphur         Salty       Gas         Salty       Gas         Salty       Gas         Sulphur       Sulphur         Salty       Gas         Sulphur       Sulphur         Sulphur       Minerals         Bailer       Minerals         Vater level       Gas         Mod of pumping       Water levels during         Pump type       Recommended         feet       feet         gene       Abandoned, insufficier	Material         1       Steel       12         2       Galvanized         3       Concrete         4       Open hole         5       Plastic         1       Steel       19         2       Galvanized         3       Concrete         4       Open hole         5       Plastic         1       Steel       26         2       Galvanized         3       Concrete         4       Open hole         5       Plastic         1       Steel       26         2       Galvanized         3       Concrete         4       Open hole         5       Plastic         1       Duration of pumpin         M	Wall thickness inches / 88 / 88 / 88 / 88 / 88 / 188 / 188	Depth - From O O O O O O O O O O O O O O O O O O O	teet To 13-16 ZZ 20-22 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 20 ZO 2	61 Depth set a From P-13 TE-21 28-29 Lubelow sho th by arrow	o.) al and type PLUG Annular : at - feet To 22.2 30-33 ( OCATION w distanc W.	I OF WELL es of well fr	inci EALING type (Cerner Pent rom road	epth at top	th of screen feet iD entonite, e ine.
10       41       WA         41       WA       WA         Water found at - feet       2       2         10-13       1       2       2         15-13       1       2       2         20-23       1       2       2         20-23       1       2       2         20-23       1       2       2         21-24       1       2       2         20-23       1       2       2         21-24       1       2       2         23-23       1       2       2         30-33       1       2       2         21       Ø       Pump 2       1         Static level       Y       Y       Y         Static level       Y       Y       Y         Recommended       19-21       Y       Y         Y       Observati       Shallow       Y         2       Observati       Observati       Y         2       Observati       Industrial       Hrigation         4       Industrial       Industrial       Industrial         METHOD OF C       Y       Rotar	FER RECORD       51         Kind of water       Inside diam inchess         Fresh:       Sulphur         Fresh:       Sulphur         Salty       Gas         Salty       Gas         Fresh:       Sulphur         Salty       Gas         Salty       Gas         Fresh:       Sulphur         Salty       Gas         Fresh:       Sulphur         Salty       Gas         Salty       Gas         Salty       Gas         Salty       Gas         Salty       Minerals         Salty       Gas         Salty       Sulphur         Salty       Sulphur         Salty       Sulphur         Salty       Sulphur         Salty       Sulphur      S	Material          Material         1       Steel       12         2       Galvanized         3       Concrete         4       Open hole         5       Plastic         1       Steel       19         2       Galvanized         3       Concrete         4       Open hole         5       Plastic         1       Steel       28         2       Galvanized         3       Concrete         4       Open hole         5       Plastic         1       Steel         2       Galvanized         3       Concrete         9       Plastic         14       Duration of pumpir         15       Plastic         14       Duration of pumpir         15       Plastic         16       Plastic         17       Pumping         2       12         45 <minutes< td="">       32-34         24-3       24-34         25-4       Recommended         9       Not use         10       Other         9       Driving</minutes<>	Wall thickness inches / 88 / 88 / 88 / 88 / 88 / 88 / 188 /	Depth - From O C C C C C C C C C	feet To 13-16 ZZ 20-23 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-30 ZO 27-3	61 Depth set a From P-13 TE-21 28-29 Lubelow sho th by arrow	o.) al and type PLUG PLUG Annular at - feet To 22-25 30-33 COCATION w distanc W TT	I OF WELL es of well fr	ind EALING Impe (Ceme Pent rom road	epth at top	th of screen feet ID ent entonite, e ine.

ounty or District			1531	192	15003		<b>0</b>
Junty of Diatriot		Township/Borough/City/	Town/Village		Con block tract	survey, etc.	Lot 25
Ottawa Ca wner's surname		Goulbourr Address	<b>ì</b>		 Date		<u></u> 48-
	untain Homes		chmond, Ont	ario KOA	270 comp	L pay 6	month
		Isting Northing		Elevation RC	Basin Code		·v
2	10 12	OVERBURDEN AND BEDR	OCK MATERIAL	S (see instruct	ions)		pth - feet
ieneral colour	Most common material	Other materials		Genera	l description	From	
brown	Sandy Soil	Stones				0	5
Gray	Lizestone			Medi	um Hard	5	172
		a					
					<b>**</b> 119		
					44 N.		
							1
							-
ter found	RECORD 51 Inside	CASING & OPEN HOLE	RECORD Depth - feet	Sizes of CSlot No			ength ³⁸
- feet	Kind of water diam	Material thickness inches	From To	Materia	I and type	inches Depth at te	op of screen
27	3         Sulphur         14           4         Minerals           Salty         6         Gas	a Steel ¹² ² Galvanized ³ Concrete	0 2	2°   00			feet
	Fresh     3     ☐ Sulphur     19       4     ☐ Minerals       3     Salty     6       6     ☐ Gas     17.18	4      Open hole     5      Plastic		61	PLUGGING & SEA		
20-23 1	Fresh	1     Steel     13       2		Depth set	Material and t	ppe (Cement grout	
25-28 1	Salty         4         Minerals           Salty         6         Gas         6           Fresh         3         Sulphur         29           4         Minerals         54-25	4 (Copen hole 5   Plastic	22 17	2 From 10-13 30 21	10 14-17	l - Cemen	
30-33	Salty 6 Gas	<ol> <li>Steel</li> <li>Galvanized</li> <li>Concrete</li> </ol>	A. 1	18-21	32-25		- \ <i>-</i>
2	Gas	4  Open hole 5  Plastic		26-29	30-33 80		
Pumping test m		15 16 17.18		LO	CATION OF WELL		
	25	Pumping 2 Recovery	In dia Indica	igram below sho ate north by arro	w distances of well	from road and ۱	lot line.
13-2'	22-24 15 minutes 26-28 30 minutes 29-3	45 minutes 32-34 60 minutes 35-37			8		
8 feet	125 feet 65feet 90 fe	Water at end of test 42			!  г		
8 feet	GPM fe	et 🗌 Clear 📮 Cloudy			395">0	7 !	
<ul> <li>Recommended p</li> <li>Shallow</li> </ul>	pump setting	pump rate			375	i	
50-53				/			
INAL STATUS		t supply ⁹ Unfinished ¹⁰ Replacement well		ž			
<ul> <li>³ Test hole</li> <li>⁴ Recharge</li> </ul>	7 C Abandoned (Other)	, <u> </u>		G	7	e	0
VATER USE	35-5 <del>6</del>			ts	ind and a second	5	r L
<ol> <li>Domestic</li> <li>Domestic</li> <li>Stock</li> <li>Irrigation</li> </ol>	5 🔲 Commercial 6 🗌 Municipal 7 🔲 Public supply	9 🗋 Not use 10 🗍 Other		270	()0023) (2006)	-	
4 🗌 Industrial		ing		F			
		⁹ 🗆 Driving	11				1-
<ul> <li>Cable too</li> <li>Rotary (ca</li> <li>Rotary (ca</li> <li>Rotary (ca</li> <li>Rotary (ca</li> </ul>		10 Digging 11 Other		Thew	ellyn Rd	20	8609
ame of Well Contr	ractor	Well Contractor's Licence No.	Data source	58 Contractor		ate received	63-64 2000
Capital	Water Supply Ltd.	1558	<b>B</b> Date of inspe		558	JUL 17	2000
P.O. BOX	<u>490 Stittsville,Ox</u>	Well Technician's Licence No.					
Iomo of W-PT	noral i	won reconnector a Licence NO.					

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Print only in space	Environment	ble. [11	<b>1</b>	531197		on. Ol <b>N</b> I_I_I_	
County or District			rough/City/Town/Villag	ge	Con block tract surv	vey, etc. Lot	
Ottawa Ca	rieton	Address	oulbourn		Date	l	23
		193 Wi	nding Way	Nepean , Ontario RC Elevation RC	Basin Code ii	<u>16day 6 m</u>	onth () iv
21							
				ATERIALS (see instruction		Depth	- feet
General colour	Most common material	Othern	naterials	General	description	From	To
Brown	Clay					0	1
Brown	Hardpan	Bould	ers			10	3
Gray	Hardpan					30	6
Gray	Sand & Gravel					65	7
Gray & Wh	ite Sandstone			Ver	y Hard	71	9
Water found at - feet         1         1         2           10:13         1         2         2           13:18         1         2         2           20:20         1         2         2           20:22:28         1         2         2           25:28         1         2         2           30:33         .         .         .	15       21 <b>RECORD</b> 21         Kind of water       Inside diam inches         Fresh       3       Sulphur       14         Salty       6       Gas       6       111/4         Fresh       4       Minerals       6       121/4         Salty       6       Gas       17.18       6         Fresh       3       Sulphur       29       24.25         Fresh       3       Sulphur       34       60       24.25         Fresh       4       Minerals       60       24.25         Salty       6       Gas       60       24.25         Khod       10       Pumping rate       11.14	Material          Material         1       Steel       12         2       Galvanized         3       Concrete         4       Open hole         5       Plastic         1       Steel       19         2       Galvanized         3       Concrete         4       Open hole         5       Plastic         1       Steel         2       Galvanized         3       Concrete         4       Open hole         5       Plastic         2       Galvanized         3       Concrete         4       Open hole         5       Plastic	thickness inches From 188 0 73	h - feet To 73 ⁽⁶⁾ 20-21 20-21 20-21 61 Depth set at From 10-12 60 13-21 25-29	Annular space To 14-17 22 25 30-33 83 Annular space Material and type (f Grouted	inches Depth at top of Comparison of Compari	of screer 41-44 feet ent ntonite,
1       XPump       2         Static level       Wa         19-2       19-2         21       19-2         If flowing give rat         Recommended pu         50-53         FINAL STATUS         1 Water suppl         2 Observation         3 □ Test hole         2 □ Recharge w         WATER USE	Bailer     annutes     25     GPN       ater level d of pumping     25     Water levels during     1       22:24     15 minutes     30 minutes       35     feet     85feet     60 fe       e     38:41     Pump intake set at     60 fe       gPM     Recommended pump setting     43:4       % Deep     50     fe       OF WELL     54       iv     6     Abandoned, insufficient       well     6     Abandoned, poor quality       r     Abandoned (Other)       ell     8     Dewatering	1     15-16       Yemping     2       45     minutes       32-34     60       et     50       feet     3       Water at end of test       et     Clear       5     Recommended       pump rate       et     0       supply     9       10     Replaceme	Recovery minutes 35 feet 42 Cloudy 46-49 5 GPM	LOC In diagram below show Indicate north by arrow	v.	road and lot	: line.
1       X       Domestic         2       Image: Stock       Stock         3       Irrigation         4       Industrial	erse) 7 🗍 Diamond	⁹ Driving ¹⁰ Digging ¹¹ Other		Purt 610	Jon House	208	
Name of Well Contract		Well Contractor's I		ta 58 Contractor	59-62 Date rei		63-64 00
Address P.O. Box Name of Well Technic	later Supply Ltd. 490 Stittsville.On	1558	16N	te of inspection	Inspector		

🗑 Onta	Environment			T	he Ontario Water WATER WE		
rint only in spaces lark correct box w	s provided. vith a checkmark, where applicable	<b>e.</b> <u>11</u>	153	81200			22 24 2
County or District		Township/Borough/City/	Town/Village		Con block tract surve	ey, etc. Lot	25.27
Ottawa Ca	arleton 28-47 First Name	Goulbo	urn		9 Date	2	<b>24</b> 48-03
Owner's surname	Distruction	Address P.O. Box 129	Stitts	ville,Ontari	o K2S 1A2	28 ay 6 mont	1 <b>00</b> rea
21	Zone East		RC	Elevation RC	Basin Code is		iv 1
		TIT TA		IALS (see instruct	ions)		1
General colour	Most common material	Other materials			al description	Depth - fe	eet To
Broom	Soil	Rock	-			0	10
Brown	Limestone				ledium Soft	10	88
Gray	Linescone						00
				#10 ⁻ *	10 (M 1-	+	
						+	
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			╶╴╛└╶┹╼┶╾┸╌╌┤╼┙				
10 14 15	RECORD 51		RECORD		f opening 31-33 Diameter	- 34-38 Length	<u>1</u> -] 39-4
/ater found t - feet	Kind of water Inside diam	Wall Material thickness	Depth - fee From		o.)	inches	fee
¹⁰⁻¹³ † 🗖 F	Fresh ³ Sulphur ¹⁴ A Minerals	inches       1     Steel       2     Galvanized	0	To         Η         Materia           222°         Ο         Ματοτία	al and type	Depth at top of so	creen
	est Cas	3 □ Concrete 4 □ Open hole				t	feet
2 🗆 5	Salty 6 Gas 17-18	⁵ □ Plastic ¹⁹		20-23	PLUGGING & SEALIN	G RECORD Abandonment	
1 ' L F		<ul> <li>2 Galvanized</li> <li>3 Concrete</li> <li>4 Doen bole</li> </ul>	22	50 Depth set	at - feet To Material and type (C	ement grout, bentor	nite, etc.
25-28 I D F	Fresh 3 Sulphur 29 4 Minerals Salty 6 Gas		<u> </u>	27-30 <b>21</b>	0 Grouted-0	ement (4)	
30-33 I 🗆 f	Fresh ³ Sulphur ³⁴ ⁶⁰	2 Galvanized	50	18-21	22-25 30-33 50		-
2 🗆 5	Salty 6 Gas	4 Open hole 5 Plastic	50	<b>88</b> 26-29			
Pumping test meth		Duration of pumping 15-16 17-18 <b>1</b> . Hours Mins		L(	CATION OF WELL		
Static level Wate	25	Pumping ² Recovery		diagram below sho dicate north by arro	bw distances of well from	road and lot lin	ne.
19-21	22-24 15 minutes 26-28 30 minutes 29-31	45 minutes 60 minutes 35-37	$   \mathcal{P}$	·	by distances of well from by.	0	
8 feet	16 feet 18 feet 18 feet				Dogen	p. Hess	2
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 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	GPM feet	Water at end of test				11 11 July	Grove
Recommended pum	Deep pump setting	Recommended 46-49 pump rate				460011	1
50-53	40 feet	5 GPM				5 = 29	5
		upply ⁹ □ Unfinished	]		- `	·	Force
<ol> <li>Water supply</li> <li>Observation</li> <li>Test hole</li> </ol>	👔 🗋 Abandoned (Other)	¹⁰ Replacement well		TIEWell	yn Rd		15
⁴ Recharge we			}				
ATER USE	56-56 5 Commercial		月				
<ol> <li>² Stock</li> <li>³ Irrigation</li> <li>⁴ Industrial</li> </ol>	<ol> <li>Municipal</li> <li>Public supply</li> <li>Cooling &amp; air conditioning</li> </ol>	10 🔲 Other	m				
	-	ana ang ang ang ang ang ang ang ang ang	4				
1 Gradue Cable tool 5 2 Cable tool 5 2 Rotary (conv	NSTRUCTION     57       O-88     5     I Air percussion       rentional)     6     Boring	⁹ Driving	!  '				
<ul> <li>² T Rotary (conv</li> <li>³ Rotary (revent</li> <li>⁴ Rotary (air)</li> </ul>	rse) ⁷ 🗋 Diamond	<ol> <li>Digging</li> <li>Other</li> </ol>				2086	24
* ****							
Name of Well Contract		Well Contractor's Licence No.	Data source	58 Contractor	558 ⁵⁹⁻⁶² Date rec	eived 1 7 2000	63 68
Capital	Water Suuply Ltd	1558		ispection		11 100	
P.O. Box Name of Well Technicia	490 Stittsville,On	Well Technician's Licence No.	4 1				
	r/P. Stanton	TOO97 Submission date				CSS.E	ESO
Signature of Technicia							

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County or District	2	Township/Borough/City/	-

Ontario Water Resources Act WATER WELL RECORD

		aces provided ox with a chec		applicable.	[	11 2	1	5316	59				1 <b>09</b> 22 23 24
	unty or Distri	ct Carleton	. = =		-	Borough/City/					tract survey	r, etc. Le	25-27 23 48-53
21		P.O. Box 190 Northing			Carp		o KOA 1	LO Basin Code		2Qay 11,			
	2		M 10							31 31	I I I	I A	47
Ge	eneral colour	LOG OF OVERBURDEN AND BEDR colour Most common material Other materials						description		Depth - feet			
	Brown								Very Wet			From To	
Ģ	Gray	Li	mestone						Mediu	m Hard		7	102
at -	ter found feet 10-13 65	□ Flesh 4 □ □ Salty 6 □	ater Sulphur 14 Minerals Gas	Inside diam inches 6 1011/41 2	Atterial	PEN HOLE Wall thickness inches •188	RECORD From	- feet To 22:15	Sizes of o (Slot No.) Material a	p g		34-38 Len nches Depth at top	feet
<u> </u>	20-23 1 20-23 1 2 25-28 1 2 25-28 1 2 30-33 1	Fresh         4           Salty         6           Fresh         4           Salty         6           Fresh         4           Salty         6           Fresh         4           Salty         6           Fresh         3           Salty         6	Sulphur 24 Minerals Gas Sulphur 29 Minerals Sulphur 34 Minerals	5 17.18 1 2 3 6 1/1 5 24.25 1 2 3 4	□ Open hole         □ Plastic         □ Steel       19         □ Galvanized         □ Concrete         ☑ Open hole         □ Plastic         □ Steel       26         □ Galvanized         □ Concrete         ○ Open hole         □ Open hole         □ Plastic		22.5	20-23 102 27-30		Annular space - feet To 14-17	a <b>&amp; SEALING</b> arial and type (Ce <b>Duted</b> –	Abandonr	nent entonite, etc.)
	Pumping tes Pumping tes Pump Static level 19-21 If flowing giv Recommende Shallow 50-53 VAL STAT 1 Qt Water 5 2 Observ 3 Deserv 4 Rechar ATER USE 1 Stock	2 Railer Water level end of pumping 22-24 14 feet 38-41 GPM d pump type R Deep US OF WELL upply ation well le ge well	9 feet Pump intake set Recommended pump setting	8 GPM during 1 30 minutes 29-31 12 feet at 43-45 60 feet insufficient supp poor quality (Other)	45 minutes 32-34 14 Det Water at end of tes Clear Recommended pump rate	12/18     12/18     12/18     Recovery     60 minutes     33-37     14 feet     42     12     12 Cloudy     46-49     5 GPM     12     12     12     12	<i>₩</i>	Indicate n	n below show orth by arrow		of well from r		
	3 🗌 Irrigatio 4 🔲 Industri	n	7 Devic Suppl 8 Device Cooling & ai					on de		14	) }		

METHOD OF CONSTRUCTION 57
1 Cable tool 55-102 Air percussion 0-55

² Botary (conventional)	Boring
	/ 🗌 Diamond
4 🕱 Rotary (air) 0-55	3 🗌 Jetting

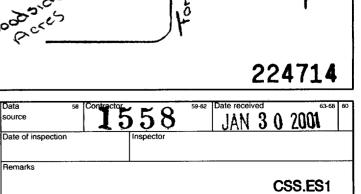
	<u></u>
Name of Well Contractor	Well Contractor's Licence No.
Capital Water Supply Ltd.	1558
Address	
P.O. Box 490 Stittsville,On	tario K2S 1A6
Name of Well Technician	Well Technician's Licence No.
S. Miller	T0097
Signature of Technician/Contractor	Submission date
de Machiana	day 21 mo 11 yr 00
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⁹ Driving ¹⁰ Digging ¹¹ Other ....

Data

source

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viark correct box	x with a checkmark, where app	licable.	11	15	5319	05			22 23 24
County or District			ownship/Borough/Cit	y/Town/Village	9		Con block tra 8	ct survey, etc.	Lot 25-27
			dress 1 Delamere	Dr., St		lle, ON		ate 08 ompleted 08	05 01 month year
21	M 10		Northing	24		ation RC	Basin Code		
General colour	LOC Most common material	GF OVERBU	URDEN AND BED Other materials	ROCK MA1	ERIALS (se		ions) al description		Depth - feet
Brown	Soil	Stone				Genera		From O	n To 5
Brown	Sand				wet			5	10
Grey	Sand	Stone	S				-	10	24
Grey	Limestone				med s	oft		24	70
31 32 41 WATE									 
15-18 1	Kind of water dia KOTeshTESTEDhur 14 Salty 6 Gas Fresh 3 Sulphur 19 Fresh 4 Winerale	ide mes ⁰ 1/ <b>4</b> X Steel 2 Galvar 3 Concre 4 Open 5 Plastic	12 <b>188</b> nized ete hole	Depth - From O	To <b>219</b> -16	S	and type		feet top of screen 41-44 feet
20-23 1 [ 2 [ 25-28 1 [ 2 [ 2 2 ] 25-28 1 [ 2 2 ]	□         Fresh         3         □         Sulphur         24           □         Salty         6         □         Gas         6           □         Fresh         3         □         Sulphur         29         6           □         Fresh         4         □         Minerals         6         Gas         6           □         Salty         6         □         Gas         6         6         6           □         Fresh         3         □         Sulphur         34         60         60	7-18 1 □ Steel 2 □ Galvar 3 □ Concre 4 □ Open 5 □ Plastic 4-25 1 □ Steel 2 □ Galvar 3 □ Concre 4 □ Open 4 □ Open	19 nized ete hole ; 26 nized ete	27	20-23 <b>70</b> 27-30	61 Depth set a From 10-13 18-21 18-21 26-29	To Material ar	Abance Ab	lonment ut, bentonite, etc.)
71 Pumping test m 1 XX Pump 2 Static level V 19-21	Satty     6 □ Gas       nethod     10       Bailer     50       Nater level and of pumping     25       Water levels during     22:24       15 minutes 22:24     30 min 22:28       30     feet       60     feet       30     feet       60     feet       30     feet       60     feet       30     feet       30     feet	5 Plastic 11-14 Duration c GPM 1 1 Pumping	2 □ Recovery s 32-34 60 minutes 35-37 6eet nd of test 42 Clear 24 Cload 4649		In diagram Indicate no	LO below shore	CATION OF WEL	II from road and	d lot line. F
FINAL STATUS 1 D&Water sup 2 Observatic 3 Test hole 4 Recharge WATER USE 1 D&Domestic 2 Stock 3 Irrigation 4 Industrial	pply 5 Abandoned, insuffi on well 6 Abandoned, poor q 7 Abandoned (Other, well 8 Dewatering 55-56	9	Unfinished Replacement well Not use Other		# 614			ĸ	# 5 5
METHOD OF C 1 Cable tool 2 Rotary (co 3 Rotary (re 4 MRotary (air	onventional) ⁶ Doring everse) ⁷ Diamond	10 🗆	Driving Digging Other		ewell	yr R	d.	 23	0090
Address	ater Supply Ltd.	159	ontractor's Licence No. 58	NNO BS		Contractor	59-62 59-62 Inspector		2001 ***
Box 490, Name of Well Techn S. Millel Signature of Technic	r ·	Well Te TOC Submis	ssion date	A Source Date of SOURCE SOURCE Date of Band Date of Band Date of Band Date of Band Date of Band Date of Band Date of Band Source	rks		L		CSS.ES1
* Jai	renof	day	9 mo 05 yr 01	Ī					7/00) Front Form

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	WATE	R WELL	RECORD

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County or District	rleton	Township/Borough/City/ Gopilbourn	Fown/Village		Con block tract surve		25-27 23
		Address	escent.	Kanata ON/ K	Date completed	25_06 (	48-53 )] nonth yea
1	Ŭ M	Northing			Basin Code ii		
2	10	OF OVERBURDEN AND BEDR	OCK MATE		31 DNS)		
ieneral colour	Most common material	Other materials		General	description	Dep From	th - feet To
Brown	sand	stones				0	11
Grey	limestone			med hard		11	50
Grey	limestone					50	64
	·····			<u> </u>			-
	<u> </u>						
	NOTE	casing was left 1	ft. abo	ove ground let	vel		
		at time of drilling					
31							
					opening 31-33 Diameter	<u>⊥                                      </u>	1 1 75 Ngth 39-4
41 WATER Vater found t - feet	RECORD 51 Kind of water diar	de Wall n Material thickness	Depth - fe			inches	fee
	Lest BS ISD phur 14 6 10			To Material	and type	Depth at to	41-44
15-18 1 🗆 F	Fresh 3 🗌 Sulphur 19	3  Concrete 4  Open hole 5  Plastic					feet
2 [ \$ 20-23 1 [] F	Fresh 3 Gas	7-18 1  Steel 19 2  Galvanized		20-23 61 Depth set a	PLUGGING & SEALIN X Annular space	Abandon	ment
2 🗆 S	$\frac{4 \Box \text{ minerals}}{6 \Box \text{ Gas}} 6$	3 □ Concrete 4 X Open hole 5 □ Plastic	21'6"	50 From 27:30 21 ¹⁰⁻¹³	To Material and type (		
2 🗌 🗄	Salty 6 Gas	1-25 1 C Steel 26 2 C Galvanized		18-21	0 Grouted- 22-25	cement	(4)
30-33 1 🗆 1 2 🗌 5	Fresh 4 D Minorals 10	3/4 3 Concrete 4 Dopen hole 5 Plastic	50 €	54 26-29	30-33 80		
Pumping test met		11-14 Duration of pumping 15-16 17-18 GPM 1- Hours Mins		LO	CATION OF WELL	<u> </u>	
Statio lavel Wat	ter level 25 Water levels during	1 Demping 2 DRecovery		In diagram below show	w distances of well from w.	n road and I	ot line.
19-21	22-24 15 minutes 30 minu	tes 29-31 <b>7</b> <b>60 minutes</b> 35-37 <b>7</b>		11			
feet If flowing give rate	12 8 7 feet feet 7	feet feet feet 42					
Recommended pur	GPM	feet Clear Cloudy					
Shallow C	Deep pump setting 40	feet 5 GPM			54		
50-53 FINAL STATUS	OF WELL 54						
<ol> <li>¹ Water supply</li> <li>² Observation</li> <li>³ Test hole</li> </ol>				D A	a'le'		
4 🗌 Recharge we						Lo	t*31
1 Domestic 2 Stock	55-56 5 🖸 Commercial 6 🖸 Municipal	9 🗌 Not use		₩			
3 Irrigation 4 Industrial	7			2			
	DNSTRUCTION 57			15			
<ol> <li>¹ Cable tool</li> <li>² Rotary (conv</li> <li>³ Rotary (reve</li> </ol>	erse) 7 🗌 Diamond	<ul> <li>⁹ Driving</li> <li>¹⁰ Digging</li> <li>¹¹ Other</li> </ul>	=	Flewellyr	Road	221	0141
4 🛣 Rotary (air)	⁸ □ Jetting			,		23	J141
Name of Well Contrac		Well Contractor's Licence No.	<b>NO</b> Data source	58 Contractor	558 ⁵⁹⁻⁶² Date r		2001 ***
Address	Water Supply Ltd.	1558		of inspection	Inspector		
Name of Well Technic		Well Technician's Licence No.		rks	L	<b></b>	
S. Mille Signaty & of Technicia		Submission date				CSS	.ES1
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County or District	Colotan	Address St	ourn -ittisville	Qt.	tract survey, etc. Lot 25-27 Date completed Bay month year
21	, м	Northing           1         1           2         17           18		RC Basin Code	
General colour	LOG O Most common material	F OVERBURDEN AND BEDR	OCK MATERIALS (see i	instructions) General description	Depth - feet
	Sand & Claul	C			From To
grey	limestore				16 61
•					
31					
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	15     21       R RECORD     21       Kind of water     Inside diam inches       Fresh     3       Salty     6       Gas       Fresh     4       Minerals       Salty     6       Gas       Fresh     4       Minerals       Salty     6       Gas       10-11       Salty     6       Gas       17-18       Fresh     4       Minerals       Salty     6       Gas       17-18	1 □ Steel 12 2 □ Galvanized 3 □ Concrete 4 □ Open hole 5 □ Plastic 188	43           BECORD           Depth - feet           From         To           13-16         C           20-23         6	Material and type	biameter 34-38     length 39-40     inches     feet     Depth at top of screen     41-44     feet     SEALING RECORD     Abandonment
25-28 1 25-28 2 25-28 1 2 30-33 1 30-33 1 2 30-33 1 2 30-33 1 2 30-33 1 2 30-33 1 2 30-33 1 30-33 1 30	Fresh     4     Gainerals       Salty     6     Gas       Fresh     3     Sulphur       29     4     Minerals       Salty     6     Gas       Fresh     3     Sulphur       24     6     Gas       Fresh     3     Sulphur       3     Sulphur     24       6     Gas       Fresh     3     Sulphur       3     Sulphur     34       6     Gas	3  Concrete 40 Open hole 5 Plastic	0 ZU 2730 20 GI	10.13 14:17	al and type (Cement grout, bentonite, etc.)
If flowing give ra Recommended pu	Bailer 26 GF ater level d of pumping 25 Water levels during 22-24 15 minutes 26-28 30 minutes 26-29 10 minut	1 Pumping 2	In diagram be Indicate north	LOCATION OF W elow show distances of h by arrow.	VELL well from road and lot line.
FINAL STATUS 1/2 Water supp 2 Observatio 3 Test hole 4 Recharge v WATER USE	bły ⁵ ⊡ Abandoned, insufficier n well ⁶ ⊡ Abandoned, poor quali ⁷ ⊡ Abandoned (Other)			Ŧ	Jobkin Jqo' welyn Rd.
<ul> <li>Domestic</li> <li>Stock</li> <li>Irrigation</li> <li>Industrial</li> </ul>	5 Commercial 6 Municipal 7 Public supply ? 8 Cooling & air condition	9  Not use 10  Other			
METHOD OF C 1 Cable tool 2 Rotary (cor 3 Rotary (rev 4 Rotary (air)	erse) 7 Diamond	⁹ Driving 10 Digging - 11 D Other			237772
Name of Well Contra	RockDillingol	Well Contractor's Licence No.	Source	Contractor 19	Date received         63-68         80           FEB         2         5         2002
Name of Well Technic Signature of Technic	ician Purce Cl	Well Technician's Licence No. T2122 Submission date	S Remarks	I	CSS.ES2
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County or District D <b>ttawa Car</b> Dwner's surname										
		Том	nship/Borough/City	-	•			tract survey	r, etc. L	ot 25-27
miler a sumame	28-47 First Narr	e Add	Goulbour	m			9	Date		24 48-53
	ntain Homes	P•C	Box 730	Richm	ond,Onta			completed2	day7	monte 2 year
1			Northing		RC Elevation					
2	10	OF OVERBUR	TOEN AND BED		ERIALS (see			<del>.</del>	-	
General colour	Most common material		Other materials			General	description		Dep From	oth - feet To
	Prev	iousley I	rilled and	l Plugg	ad .				0	
	Oper	Hombe							0	6
	Hole	Plug							6	120
	· · · · · · · · · · · · · · · · · · ·					. ·	0.1 a			
						· · ·				
31   1 1			1							
32										
	RRECORD 51		& OPEN HOLE Wall		feet	Sizes of o	pening ³	Diameter	³⁴⁻³⁸ Lei	ngth 39-40
t - feet	Kind of water dia inc	n Materia les		From	То	X (Slot No.)	nd type	i   ·	Depth at to	feet
2	4 Minerals	<ul> <li>1          Steel         2              Galvani         </li> <li>3              Concret         </li> </ul>			13-16	n			-	41-44 feet
15-18	Fresh ³ Sulphur ¹⁹ 4 Minerals Salty ₆ Gas	4  Open h 5 Plastic	ble			61	PLUGGING	& SEALING	RECOR	
20-23 1	Fresh 3 I Sulphur 24	⁷⁻¹⁸ 1 🗆 Steel 2 🗌 Galvani			20-23		Annular space		Abandor	ment
05.08	Salty 6 Gas Fresh 3 Sulphur 29	3  Concret 4  Open h 5  Plastic				From 10-13	To Mate	rial and type (Ce	ment grout,	bentonite, etc.)
s 🗆		1-25 1 Galvani			27.30	18-21	22-25			
30-33 1 🗌 2 🗌	Fresh ³ Sulphur ³⁴ ⁶⁰ ⁴ Minerals Salty ⁶ Gas	3  Concret 4  Open h 5  Plastic				26-29	30-33 80			
Pumping test met	ethod ¹⁰ Pumping rate	11-14 Duration of	pumping	· · · ·						
1 1 🕱 Pump 2 🗆	Bailer 20	GPM 1	15-16 17-18 Hours Mins		In diagram b		ATION OF distances of		oad and l	ot line.
	Water levels during           vd of pumping         Water levels during           22-24         15 minutes 26-28         30 minutes	Pumping es 45 minutes	2 Recovery 60 minutes 32-34	A	Indicate nort	h by arrow				
6 2 teet		60	32-34 35-37 leet 20 feet	`K						
If flowing give rate	te 38-41 Pump intake set at	Water at en	d of test 42							
Recommended pur	GPM Imp type Recommended pump setting	43-45 Recomme pump rate	inded 46-49	{		1				
50-53	C Deep 50	feet	5 дрм			1				
INAL STATUS				īl					1	
<ul> <li>¹X Water supply</li> <li>² Observation</li> <li>³ Test hole</li> </ul>			Infinished Replacement well			1	$\square$			
⁴ Recharge w						3	2' /20	»*		
VATER USE 1 X Domestic	55-56 5 🗌 Commercial		lot use			ł	敋			
2 Stock 3 Irrigation 4 Industrial	6 🗌 Municipal 7 🔲 Public supply 8 🔲 Cooling & air condi	10 🗌 🕻	Other			I				
						<u> </u>		22	1	
1 🗌 Cable tool	5 C Air percussion		Driving		- 1	- lew	ellyn			
² □ Rotary (conv ³ □ Rotary (reve ⁴ ₩ Rotary (air)	rerse) 7 Diamond		Digging Dther						238	194
Name of Well Contrac Capital B	ctor later Supply Ltd.		ntractor's Licence No. 558	<b>NO</b> Date		Contractor 15	58	59-62 Date rece		63-68 80 002
P.O. Box		Well Te	chnician's Licence No		arks				<b>~</b> ~	~ ~~~
S. Miller			097 sion date	AT NIM					CS	S.ES
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Municipality 155003 Con. 15 22 23 24

The Ontario Water Resources Act WATER WELL RECORD

County or District Township/Borough/City				e		Con block	tract survey	, etc.	Lot 25-27
Address						9	Date	2	<u>3</u> 48-53
		Address Box 190 Carp,	Onteri	in KON	11.0		completed	dav <b>£</b> 2	montin 2 year
01	01	BOX 190 Carp	Unitati	RC Elev	vation RC	Basin Code	<b>1</b>	<b>,7016)</b> III	iv i
				25 26		31			47
· •	LOG O	F OVERBURDEN AND BEDI	ROCK MAT		see instruction	ns)		<b>D</b> ~	pth - feet
General colour	Most common material	Other materials			General d	escription		From	ptn - reet To
brown	soil	stones						0	8
	limestone	·		mod	hard			8	181
grey	I THEOLOGIE			HRCU.	INGLU				
	· · · · · · · · · · · · · · · · · · ·								
		· · · · · · · · · · · · · · · · · · ·							
						£ 3.133	<b>*</b>		
	Note: Casing was le	<u>IL I IOOTA Above g</u>	round	sevel a	at time o	r drill	1 <b>ng.</b>		
	<u> </u>	<u> </u>		<u> </u>				<u> </u>	<u> </u>
								34-38 Le	75 80
Water found	Kind of water	CASING & OPEN HOLE	Depth	- feet	Sizes of op (Slot No.)	rening 31		nches	angth ³⁹⁻⁴⁰ feet
at - feet	Freeb 3 Sulphur 14	1	From	To 13-16	(Slot No.)	id type			op of screen 30 41-44
	□ Friesh 4 □ Minerals □ Salty 6 □ Gas 6 1/		0	21'6"	ŭ				feet
	Fresh ³ Sulphur ¹⁹	4  Open hole 5 Plastic			61 <b>P</b>	LUGGING	& SEALING	BECO	
20.23	17-18		2110	20-23		Annular space		Abando	
1/0 2 [	Salty 6 Gas 5	3 □ Concrete Q I Open hole	21'6	48		To Mater	rial and type (Cer	ment grout,	, bentonite, etc.)
25-28 1	□ Fresh 4 □ Sulphur 29 □ Salty 6 □ Gas 24-25			27-30	21'*6 C		uted cem	ent (	(4)
30-33 1 [	Fresh ³ Sulphur ³⁴ ⁶⁰	2  Galvanized 3  Concrete 4  Open hole	48	181	18-21 26-29	22-25 30-33 80			
2 [	☐ Salty 6 ☐ Gas	t ☐ Open noie t ☐ Plastic							
Pumping test n					LOCA		WELL	<u></u>	
	Water level 25 Water levels during				m below show			ad and	lot line.
Static level e	end of pumping water levels during 22-24 15 minutes 26-28 30 minutes 25			maicate r	north by arrow.		$\backslash$		
19-21 19-21 24 feet If flowing give r	50 42 45	48 50	~~	N			$\mathbf{X}$		
If flowing give r	ate ³⁸⁻⁴¹ Pump intake set at	feet         feet         feet           Water at end of test         42	*				$\frac{1}{G}$		
Recommended		Clear         Cloudy           Clear         Cloudy           Clear         46-49					L'		
□ Shallow	Pump setting	eet 5 GPM		$\mathbf{X}$			$\boldsymbol{\lambda}$	$\mathbf{X}$	
50-53			1		\ <b>\</b>	-	51.		
FINAL STATU	pply ⁵ 🗌 Abandoned, insufficien				\ \	$\checkmark$	61		$\mathbf{N}$
<ul> <li>² Observati</li> <li>³ Test hole</li> </ul>	ion well ⁶ Abandoned, poor quali ⁷ Abandoned (Other)				Χ.,	59'			$\mathbf{X}$
4 🗌 Recharge	· · · · · · · · · · · · · · · · · · ·				``				
WATER USE		9 🗌 Not use			S	A. G., U.	ide Akri	æ	
2 Stock 3 Irrigation	6 🗔 Municipal 7 🔲 Public supply	10 🗌 Other				Woods	ige rki	r> •	
4 🗋 Industrial	8 🗌 Cooling & air condition	աց			7				
METHOD OF	CONSTRUCTION 57 50-181 3/ Air percussio 0-50	⁹ Driving			ų				
² Cable too ² Rotary (c ³ Rotary (re	onventional) 6 🗌 Boring	[•] Driving ¹⁰ Digging ¹¹ Other	-		Fle	welyn	<b></b>	<del>~~</del>	
4 🗌 Rotary (a						,		238	3244
Name of Well Cont	ractor	Well Contractor's Licence No.			58 Contractor	-	59-62 Date recei	ved	63-68 80
	ater Supply Ltd.	1558		ce	58 Contractor 5	58	SEP	16	2002
Address				of inspection		spector	L		· · · ·
Box 490 St Name of Well Tech	tittsville, Ontario J Inician	K2S 1A6 Well Technician's Licence No.	SS Rema	arks			··.		
8. Miller		T0097	AILSINIM				<u> </u>	SC	122
Signature of Techn		Submission date					U		
Ana		day13 mo 08 yr 02	╵╘╴					0506 (07	//00) Front Form 9
2 - MINIS	STRY OF THE ENVIRON	MENT COPY							



Ministry of the Environment

Well Tag No. (	Place Sticker a	nd/or Print Below)
A	119663	A119663

Well Record

ntion 903 Ontario Water Resources Act

Well Location					
Address of Well Location (Street Number/Name)	Township	Lot	Conces		And
14 Poplarwood (Lot 43) County/District/Municipality	Goulbourn City/Town/Village	23		9	
Ottawa Carleton	Stittsville		Province Ontario	Posta	al Code
UTM Coordinates Zone Easting Northing	Municipal Plan and Suble	ot Number	Other	<u>}</u>	
NAD 8 3 1 8 429114 5010184					
Overburden and Bedrock Materials/Abandonment Sealing Re	cord (see instructions on the	back of this form)			
General Colour Most Common Material C	Other Materials	General Description		De From	pth ( <i>m/ft)</i> To
Previously Dri	11ed			0	33.52
				00 -	
				33.52	2 83.20
			,,,		
· · · · · · · · · · · · · · · · · · ·		······································			
Annular Space				271273014030503654	18-14-14-14-14-14-14-14-14-14-14-14-14-14-
Depth Set at (m//t) Type of Sealant Used	Volume Placed	Results of We After test of well yield, water was:	Draw Dowr		Recovery
From To (Material and Type)	(m³/ft³)	X Clear and sand free	Time Water L	evel Time	Water Level
		Other, specify	(min) (m/ft) Static		(m/ft)
		If pumping discontinued, give reason:	Level 9.8	9	
			1 11.1	0 1	24.57
		Pump intake set at (m/ft)	2 12.1	2 2	22.26
		60.95	3 13.3		
Method of Construction Well L		Pumping rate (//min / GPM) 45.5	1.0.0		19.18
Cable Tool Diamond Dublic Comm A Rotary (Conventional) Jetting Domestic Munic		Duration of pumping	4 14.4	9 4	18.98
Rotary (Reverse)     Driving     Livestock     Test H	Hole Monitoring	hrs + min	5 15.4	1 5	16.58
□ Boring □ Digging □ Irrigation □ Coolir ☑ Air percussion □ Industrial	ng & Air Conditioning	Final water level end of pumping (m/ft)	¹⁰ 19.1	2 10	11.78
Other, specify Other, specify		27.32 If flowing give rate ( <i>l/min / GPM</i> )	15 19.6		
Construction Record - Casing	Status of Well	is nowing give rate (min / GPM)		-	9.26
Inside Open Hole OR Material Wall Depth (m/ft)	X Water Supply	Recommended pump depth (m/ft)	20 20.5	9 20	8.32
Diameter (Galvanized, Fibreglass, Thickness (cm/in) Concrete, Plastic, Stee!) (cm/in) From To	Replacement Well     Test Hole	39.62	²⁵ 23.9	6 ²⁵	8.48
	Recharge Well	Recommended pump rate (I/min / GPM)	³⁰ 24.8	n 30	8.44
	Dewatering Well	45.5			
	Observation and/or     Monitoring Hole	Well production (I/min / GPM)		۷	8.31
	Alteration (Construction)	Disinfected?	50 26.0	3 50	8.26
	Abandoned,	🗶 Yes 🗌 No	60 27.3	2 60	8.24
Construction Record - Screen	Insufficient Supply	Map of We	ell Location		
Outside Material Diameter (Plastic Calvasiand Start) Slot No	Water Quality	Please provide a map below following	instructions on th	e back.	
( <i>cmvin</i> ) (Plastic, Galvanized, Steel) Slot No. From To	Abandoned, other, specify				
				ł	
	Other, specify			น์	1
Water Details	Hole Diameter	#19	×	Be	1
	epth (m/ft) Diameter	HOUSE		3 /	<i>I</i> V
67.35(m/ft) Gas Other, specify	To (cm/in)	LOT # 43		900 m W W M M 00	
	2 83.20 15.23			96	
81.98(m/ft) Gas Other, specify Water found at Depth Kind of Water: Fresh Untested				671	
( <i>m/ft</i> ) Gas Other, <i>specify</i>				lo,	
Well Contractor and Well Technician Inform	ation				
Business Name of Well Contractor	Vell Contractor's Licence No.	FLEWELL	VN ROAD		
Capital Water Supply Ltd.	1   5   5   8	FLEWCON			
,	funicipality	Comments:			
Box 490 Province Postal Code Business E-mail Address	Stittsville				
Ontario K2S 146   office 2 capital	vater co	Well owner's Date Package Delivere	d Mis	istry Us	e Only
Bus.Telephone No. (inc. area code) Name of Well Technician (Last Name		information package	Audit No		<u> </u>
613 836 1766     Miller, Stephen Well Technician's Licence No. Signature, Miller, Stephen		delivered	<u>ural :</u>	139	9723
		A Yes	~ 1	FEB 0	0.53369300000000000000000000000
0 0 9 7 Mill mm 2	EQLANGES		Y C4 Received	. <b>-</b> • V	

Ministry of	Well Tag No. (Place Sticker and/or Print Below) A136701 MW 14+801 /2		Well Record Regulation 903 Ontario Water Resources Act			
the Environment			-	Page of		
Measurements recorded in: 🔀 Metric 🗌 Imperial	ADDIV. I	WICIOUTA				
Well Owner's Information           First Name         Last Name / Organization		E-mail Address		Well Constructed by Well Owner		
Mailing Address (Street Number/Name)	Municipality	Province	Postal Code	Telephone No. (inc. area code)		
100 (ONSTELLATION (RESCENT	6TTAWA	0~	K2G618			
Well Location Address of Well Location (Street Number/Name)	Township		Lot	Concession		
FLEWELLYN ROAD /SHEA ROAM	City/Town/Village		Provi	nce Postal Code		
County/District/Municipality	City/10wh/vindge		0	tario		
UTM Coordinates Zone Easting Northing	Municipal Plan and Sublot	Number	Other			
NAD 8 3 1 8 4 3 0 5 1 5 5 0 1 0 Overburden and Bedrock Materials/Abandonment Ser	aling Record (see instructions on the	back of this form)		Depth ( <i>m/ft</i> )		
General Colour Most Common Material	Other Materials	General Description		<u>From</u> <u>To</u>		
	AAVELLY SAND, TRACE SIL	T David		0.6 4.1		
	ANDY SILT, GRAVEL	LOOSE TO DENSE VERY DENSE		4.1 5.1		
GREY TILL 5	ILTY SAND, GRAVEL	Verei	1200-0			
			Results of Well Yi	-Id Testing		
Annular Space           Depth Set at (m/ft)         Type of Sealant Used	Volume Placed	After test of well yield,	water was:	Draw Down Recovery		
From To (Material and Type)	( <i>m³/ft³</i> )	Clear and sand fi	(mir	n) (m/ft) (min) (m/ft)		
0 0.6 BENTON ITE		If pumping discontinue	d, give reason: Stati			
			1	1		
		Pump intake set at (n	n/ft) 2	2		
Method of Construction	Well Use	Pumping rate (Ilmin /	GPM) 3	3		
Cable Tool Diamond Public	Commercial Not used	Duration of pumping	4	4		
Rotary (Conventional)       Jetting       Domestic         Rotary (Reverse)       Driving       Livestock	Municipal     Dewatering       Test Hole     Monitoring	hrs + r	nin 5			
Boring     Digging     Irrigation       Air percussion     Industrial	Cooling & Air Conditioning	Filial water level end t				
Other, specify H SA □ Other, specify	Status of Well	If flowing give rate (#r				
indice open noic of children and	th ( <i>m/ft</i> ) Uvater Supply	Recommended pump				
Diameter (Galvanized, Fibreglass, (cmlin) Concrete, Plastic, Steel) (cmlin) From	To Replacement Well	Recommended pump	o rate 30			
5.08 PVC SCHED O	3.      Recharge Well     Dewatering Well	(Ilmin / GPM)/	40			
	Observation and/or Monitoring Hole	Well production (Ilmir				
	Alteration (Construction)	Disinfected?	60			
	Abandoned, Insufficient Supply		Map of Well L			
	th ( <i>m/ft</i> ) Abandoned, Poor Water Quality	Please provide a map				
( <i>cmlin</i> ) (Plastic, Galvanizeu, Steel) From	To Abandoned, other, specify	1		NP		
5.8 pvc 10 3.6	5.1 Other, specify					
Water Details Water found at Depth Kind of Water: Fresh Untested		fine and the second				
( <i>m</i> / <i>ft</i> ) Gas Other, specify Water found at Depth Kind of Water: Fresh Untested	From To (cm/in)	R	V FLEWER MW 12-2081	LYN		
( <i>m/ft</i> ) Gas Other, specify		SNG	MW 12-208 1	(+28)		
Water found at Depth Kind of Water: Fresh Untested		0				
(m/ft) Gas Other, specify						
Business Name of Well Contractor	Well Contractor's Licence No.					
GEORGE DOWN WG ESTATE DRILLI Business Address (Street Number/Name)	Comments:					
HLO NE PRINCIPALE GRENT Province Postal Code Business E-mail Ad	MW 12-20, SEE ATTACHED ALSO					
QC JOVIBO downing		ackage Delivered	Ministry Use Only Audit No.			
Bus.Telephone No. (inc. area code) Name of Well Technician	package Y Y					
Well Technician's Licence No. Signature of Technician and/or C	$\begin{array}{c} \text{Contractor Date Submitted} \\ 2 \mid 0 \mid 1 \mid 3 \mid 0 \mid 8 \mid 0 \mid 1 \end{array}$	Yes	1305216			
0506E (2007/12) © Queen's Printer for Ontario, 2007	Ministry's Copy	<u> </u>				

Unitario and Climate Change	ell Tag No. (Place Sticker and/or Print B N/A	Regulation 903 Ontario	Well Record Regulation 903 Ontario Water Resources Act Page of			
/ ~			0I			
Well Owner's Information           First Name         Last Name / Organization.	E-mail	Address				
First Name Last Name / Organization J.P. Chenier Mailing Address (Street Number/Name) 9094 Cavanagh Road	Company Ltd C o 136	Postal Code N Postal Code N KUA 180	e No. (inc. area code)			
J						
Address of WellLocation (Street Number/Name)	Township	Lot P/L 3 Concess	ijon			
County/District/Municipality	City/Town/Village	Province	Postal Code			
Ottawa-Carléton	Stiffsville	Ontario				
UTM Coordinates Zone, Easting NAD   8   3   1 4 4 3 8 0 9 7 56 11 1 0 4	Municipal Plan and Sublot Number	Other				
NAD 8 3 4 4 4 8 0 1 1 5 1 1 0 4 Overburden and Bedrock Materials/Abandonment Sealing						
General Colour Most Common Material	Other Materials	General Description	Depth (m/ Depth (m/ Depth (m/ Depth))			
11/4" PVC DE	LUED WELL		0' 27'			
		and Var				
		· · · · · · · · · · · · · · · · · · ·				
-						
montoring well						
Annular Space           Depth Set at (m@)         Type of Sealant Used	Volume Placed After test of	Results of Well Yield Testi well yield, water was:    Draw Down	and the second s			
From To (Material and Type)	(m³/ft³) 🗌 Ciear	and sand free	evel Time Water Level			
21' 6' 3/8 Hole-Mug		specify (m/fi discontinued, give reason: Static				
L' O' Brek full "						
		1	1			
		ke set at (m/ft)	2			
	Vell Use	ate (I/min / GPM) 3	3			
		4	4			
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Municipal Devatering Duration o Test Hole Monitoringhrs		5			
		level end of pumping (m/t) 10	10			
Air percussion     Other, specify     Other, specify			15			
Construction Record - Casing	Status of Well					
Inside Open Hole OR Material Wall Depth (m/		nded pump depth (m/ft)	20			
Diameter (Galvanized, Fibreglass, Thickness (cm/in) Concrete, Plastic, Steel) (cm/in) From	Replacement Well     Test Hole	25	25			
	Recharge Well	nded pump rate 30	30			
	Observation and/or	action (I/min / GPM)	40			
	Monitoring Hole	50	50			
	(Construction)	2 No 60	60			
	Abandoned, Insufficient Supply	Map of Well Location				
Outside Material Octavity Depth (m/	Abandoned, Poor Abandoned, Poor Please pro	vide a map below following instructions on t	he back.			
Diameter (Plastic, Galvanized, Steer) Slot No. From	To Abandoned, other,					
Nei	The only the	<b>\</b>	TE			
	Other, specify		4			
Water Details	Hole Diameter	() AKN	N t			
Water found at Pepth Kind of Water: Fresh Untested	Depth (m/ft) Diameter	Q 0.9KM	7.1.1			
( <i>m/ff</i> )	From To (cm/in)	11	- LE			
Water found at Depth Kind of Water: Fresh Untested		AM	·~ ·			
( <i>m/ft</i> ) Gas Other, specify Water found at Depth Kind of Water: Fresh Untested		× 67 0	and the			
( <i>m/ft</i> )		# OANKE	きてきを			
Well Contractor and Well Technician Ir		1.4 km 2 to 6279 FERNBANKF	(7) -			
Business Name of Well Contractor. Air Rock Dhilling Co. Ltd.	Well Contractor's Licence No.					
Busifiess Address (Smoot Niceber (Name)	Municipality ond Comments					
6659 Franktown food	Richmond					
Province Postal Coder Business E-rgail Address	Sympatico.ca   [Well owne	r's Date Package Delivered	inistry Use Only			
Bus Jelephone No. (inc. area code) Name of Well Technician (Last Desauliniers, Ken	information		• z237139			
L 13 8 38 01 10	delivered		IOV 2 8 2016			
Well fedmician's Licence No. Signature of Technician and/or Contra	actor Date Submitted 9 54 Yes		a an			
0506E (2014/11)	Ministry's Copy	مضمستغثرها الصطب أعطيك الصيف والوسيساس كالكالا	een's Printer for Ontario, 2014			

() Onta		y of the Environme imate Change	ent Well Tag	Well Tag No. (Place Sticker and/or Print Below) $\Lambda \land A$			Well Record Regulation 903 Ontario Water Resources Act			
Measurements r	recorded in:	Metric 🗌 Imperi	ial $H_{J}$	5 116		15-21	799 Pa	ge	of	
Well Owner's First Name		Last Name ( Organ	izo ^{4io+}	/ 1	E-mail Address				Constructed	
		Davidson	Co-ler	ancy/c/o	Tartan L	and G	nsulfants	In py We	ell Owner	
	Street Number/Na MCS Et	st. W	N	iunicipality OEEAWA	ON Province	Postal Code	, TIS I I	ne No. (inc. )	area code)	
Well Location	<u></u>	<u> </u>								
51	ocation (Street Nu	mber/Name)	Lewellyn	bwnship		Lot	Conces	sion		
County/District/M				ity/Town/Village		L	Province Ontario	Postal	Code	
UTM Coordinates	1 . <u>61. 2</u> 0.	Northing		1 Iunicipal Plan and Suble	ot Number		Other			
NAD   8   3			0554	rd (see instructions on th	e hack of this form					
General Colour	na ang kasang panang ng kasang na ang sa	mon Material	100000000000000000000000000000000000000	er Materials		neral Descriptior	1	Dep1 From	th ( <i>m/ft</i> ) ∣ To ₁	
BRN	top so	7	1		solat			0	,3/	
BRN	Sand		silt, st	ones	solt			.31	2.49	
<u>ORY</u>	51/17		stones		dense j			2. 97	4.57	
6127	Shale				lagered		4.51		10.06	
	(6)	Annular Spac	hand an an all and a range all dealed			2004 December 2004 December 2005 December 200	ell Yield Testii			
Depth Set at (r. From	n/ft) To	Type of Sealant L (Material and Typ	(e)	Volume Placed (m³/ft³)	After test of well yiel	d free	Draw Dow Time Water L (min) (m/fi	evel Time	ecovery Water Level	
0,3	1 cong		niment		Other, specify		Static	(min)	(m/ft)	
,3/5.		onife			-	, 5	Level	1		
5.4910.	,06 f;17.	( Sand		· · · · · · · · · · · · · · · · · · ·	Pump intake set at (	(m/fi)	2	2		
					Pumping rate (I/min.		- 3	3		
Method of Cable Tool	of Construction	id 🗌 Public	Well Us				4	4		
Rotary (Conver	ntional) 🗍 Jetting	Domestic	· 🗍 Municipa		Duration of pumping hrs +	) min	5	5		
Boring			444444	& Air Conditioning	Final water level end	d of pumping <i>(m/fi</i>	10	10		
Other, specify		Industrial	ecify		If flowing give rate (L	/min / GPM)	15	15		
Inside Op	Construction F en Hole OR Material	Record - Casing Wall	Depth ( <i>m/īt</i> )	Status of Well	Recommended pun	n dooth (m#i)	20	20		
Diameter (Ga	Ivanized, Fibreglass, hcrete, Plastic, Steel)	- Thickness	om To	Replacement Well	recommended pan	пр церш (лиц)	25	25		
5,20 6	VC	.340 (	1 7.01	Recharge Well	Recommended pun (I/min / GPM)	np rate	30	30		
			, 	Dewatering Well     Observation and/or	Well production (I/m	in / GPM)	40	40		
				Monitoring Hole	Disinfected?		50	50		
				(Construction)     Abandoned,     Insufficient Supply	Yes No		60	60		
Outside		Record - Screen	Danih (m@)	Abandoned, Poor Water Quality	Please provide a n	the second s	Vell Location	on the back	<u>.</u>	
Diameter	Material tic, Galvanized, Steel	) Slot No. Fi	Depth ( <i>m/ft)</i> om To	Abandoned, other,	K X	X	,	4	A	
6.03	PVC	10 7.	0110.06	×		Hyd	1 *0		T	
				Other, specify	NA V	Towe	ىم.	ł	N	
Water found at D	Water Do Pepth Kind of Wate		20120001120000012000012002120200	ole Diameter	REF.	$\mathbf{X}$			1	
( <i>m/ft</i> )		hremand	From	h ( <i>m/ft</i> ) Diameter To ( <i>cm/in</i> )	* */			/	/ ,	
Water found at D (m/ft)		er: Fresh Un	tested	6. 1.43		En P	120m			
		er: Fresh Un	tested 6 - /	10.067,62	1 ×	$\langle \rangle$	$\sim$	il yr		
(m/ft) [	Gas Other, sp	ecify tor and Well Tech				$\sim$	(1-2w)	vli		
Business Name o	of Well Contractor	P	∩ We	ion Il Contractor's Licence No.	17		× (1-2)	/		
Stricta Driv 1/14 6000 7 2 41) Business Address (Street Number/Kame) + Municipality			Comments:		<u>`/</u>		<u></u>			
165 Sh	18/03 4	-0-1 ×		Markhan						
$\mathcal{ON}$	Postal Code	) 2 Business E-m	all Address	refersoil.com	Well owner's Date	e Package Deliver	red Mi	nistry Use	Only	
Bus Telephone No	o, (inc. area code) 🛛 N	lame of Well Techni	cian (hast Name,	First Name)	information	Y   Y   Y   M   M	Audit N		7801	
Well Technician's L	Ö 7 9 Ì 9	BCU 11			- TYes Date	Work Completer		UG 2 0 2	018	
<u>36/</u> 0506E (2014/11)	6	6ŧ	$\geq \beta$	<u>DI 1804 016</u>		02804			or Ontario, 2014	
0000E (2019/11)	7	- L		Ministry's Copy				UND FUINEFIO	- Oriano, 2014	