

VIA Email: lloyd@lloydphillips.com

June 22, 2017 (revised February 14, 2018)

Our File Ref.: 170132.02

The Hindu Temple of Ottawa Carlton Inc. c/o Lloyd Phillips & Associates Ltd. 1827 Woodward Drive, Suite 109, Ottawa, Ontario K2C 0P9

Attention: Mr. Lloyd Phillips

Subject: Terrain Analysis and Private Sewage Disposal System Impact Assessment - Proposed Assembly Hall The Hindu Temple of Ottawa Carlton, 4835 Bank Street, Ottawa, Ontario

Dear Mr. Phillips,

LRL Associates Ltd. (LRL) has conducted a Terrain Analysis and Private Sewage Disposal System Impact Study for the proposed Hindu Temple of Ottawa Carlton Assembly Hall to be constructed on the property located at 4835 Bank Street, Ottawa, Ontario (herein referred to as the **%**ite+). It is understood that it is proposed that a 2,000 m<sup>2</sup> Assembly Hall will be constructed at the eastern portion of the existing developed property which will have an available capacity of approximately 600 individuals, increasing the total occupancy of the site to an estimated 850.

The proposed Assembly Hall will be supplied by municipal water supply and a private septic as is the existing development on the Site.

The assessment was carried out to determine if the proposed development:

- Has soil conditions that are suitable for onsite sewage disposal; and
- Will not impair the use of groundwater resources on the Site or on adjacent lands.

The proposed sewage system will be designed for approximately 21.6 m<sup>3</sup>/day of wastewater, as outlined below, which requires approval under Section 53 of the Ontario Water Resources Act (systems greater than 10,000 L/day). Large systems are subject to the Ontario Ministry of the Environment and Climate Changes (MOECC) Guideline B-7<sup>1</sup> which defines the acceptable levels of groundwater impacts of the system on the neighbouring properties.

<sup>&</sup>lt;sup>1</sup> % accorporation of the Reasonable Use Concept into MOEE Groundwater Management Activities+, Guideline B-7, April 1994

Guideline B-7 establishes the amount of contamination that may be discharged to the adjacent property that will have no more than a negligible effect on the present or potential %easonable use+ of that property. For health-related parameters, the groundwater quality must not be degraded by an amount in excess of 25% of the difference between background and the Ontario Drinking Water Objectives. For the purposes of this Site, the levels of nitrates must be less than 2.5 mg/L at the limits of the property.

Reasonable current and potential uses shall be established with respect to Site specific soil and water bearing units in the subsurface and would apply to all of the ground lying beneath a particular property. Such a decision based on the present use of groundwater in the vicinity.

The assessment involved a desktop review of available information on the geology and hydrogeology of the Site and adjacent lands in addition to an instructive subsurface investigation (test pitting program). The Site is serviced by municipal water supply, however, neighbouring properties within 500 m of the Site were found to have records of supply wells present.

#### 1 SITE AND AREA DESCRIPTION

The property is situated at the southern extents of the City of Ottawa at 4385 Bank Street. The property is legally described as Part Lot 22, Concession 5RF Gloucester Parts 1 & 2, 5R3156. The location of the subject site is shown in **Figure 1**. The Sitecs area is approximately 3.8 hectares (9.4 acres). The property is currently occupied by the Hindu Temple of Ottawa Carleton. The footprint of the existing temple building is approximately 1,060 m<sup>2</sup>. The existing temple is located at the western extent of the Site with the associated septic systems to the north and south of the temple. Based on the previously prepared Use Permit, dated December 5, 1985, issued by the MOECC, and associated application, the existing septic systems were designed for 3,750 L/day, assuming occupancy of 250 individuals and the use of 15 L/day per individual.

The neighbouring land use is as follows:

- Bank street, followed by light industrial/commercial business to the west; and
- Vacant/treed land to the north, south and east.

The topography of the land is generally flat with an approximate elevation of 97 m above mean sea level.

These site features are shown in the Figure 2.

#### 2 PROPOSED DEVELOPMENT

It is anticipated that an assembly hall be constructed at the eastern portion of the Site with the associated septic along the south of the proposed structure. Water supply will be obtained from municipal services. According to the City of Ottawa by-law requirements, and the proposed size of the new development and existing development (2,000 and 1,060 m<sup>2</sup>, respectively), a total of 162 parking spaces will be required. No additional parking spaces are proposed as the current development on the Site is equipped with 173 parking spaces.

The proposed assembly hall is anticipated to include a dining area, a kitchen, lobby and two (2) halls. The proposed development will be equipped with a full basement as well.

The proposed development plan is shown in the **Figure 3**.

#### **3** FIELDWORK

On May 8<sup>th</sup>, 2017, eight (8) test pits were advanced across the Site. The test pits were placed around the general perimeter of the Site so not to disrupt existing Site activities and services. The rational for the test pits were to determine the general upper soil and perched water conditions. The test pits were advanced using a backhoe operated by a local contractor (Yelle Excavation, Ottawa) and under direct supervision by LRL field staff. The locations of the test pits are presented in **Figure 4** with the Test Pit Logs included in **Appendix A**.

An open tube piezometer was installed in select test pits locations (TP1, TP3, TP5 and TP7) to allow for the groundwater elevation measurement and sampling of the perched water found in the overburden, herein referred to as groundwater. Groundwater samples were collected from each of the piezometers on May 8th, 2017, with the exception to TP5 which was found to have insufficient water available for sampling (i.e. dry). The samples collected were submitted for laboratory analyses for select nitrate species parameters. The laboratory Certificate of Analysis is included in **Appendix B**.

A soil sample from select test pits was submitted to LRLs material testing laboratory for sieve and hydrometer analysis certificates are included in **Appendix C**.

A ground surface elevation survey was carried out at each test pit location to obtain the elevation of the test pit ground surface and the piezometer stick-up. These elevations would aid in determining the groundwater elevations across the Site. An arbitrary benchmark was established at the top of the east arm of the hydrant located along the west of the southern entrance to the Site. The benchmark was given an elevation of 100.00 m. The elevations of summarized in **Table 1** and are presented in the Test Pit logs included in **Appendix A**.

#### 4 TOPOGRAPHY, GEOLOGY AND HYDROGEOLOGY

Local topography indicates that the inferred overburden groundwater flow direction is east towards the North Castor River. The nearest open water body to the Site is an unnamed tributary that flows into the North Castor River, approximately 1.1 km east of the Site.

Surficial soil deposit mapping<sup>2</sup> indicates that the overburden consists of till, plain with local relief less than 5 m. Bedrock mapping<sup>3</sup> indicates that the underlying bedrock consists of dolomite and limestone, part of the Oxford Formation.

The test pits completed across the Site were found to have a thin layer of topsoil over fill material which extended to depths between 0.7 and 1.5 m thick. The fill was underlain with silty sand in TP1. The fill layer generally extended to bedrock refusal, encounter at depths from 0.8 to 2.1 m bgs. Waste debris was observed in the fill material in TP2, TP3 and TP5, which included metal, tire debris and asphalt.

A representative till sample collected during the test pitting activities (TP3-6) was submitted for sieve analysis. The till sample was measured to be 39% Silt & Clay, 40% Sand, and 21% Gravel. A second representative till sample collected (TP1-3) was submitted for hydrometer

<sup>&</sup>lt;sup>2</sup> St-Onge, D.A. (compilation), 2009: Surficial geology, lower Ottawa valley, Ontario-Quebec; Geological Survey of Canada, Map 2140A, scale 1:125000

<sup>&</sup>lt;sup>3</sup> Harrison, J.E., 1976. Geological Survey of Canada, Generalized Bedrock Geology, Ottawa-Hull, Ontario and Quebec, Map 1508A, scale 1:125000.

analysis. The sample was measured to be 22% clay, 64% silt, 9% sand and 5% gravel. These results are presented in the sieve and hydrometer analysis certificates are included in **Appendix C** and are summarized in **Table 2**.

A search was conducted of the available well records from the MOECC Water Well Record Department. The search by UTM coordinates covered a 500 m radius from the site. The search returned records for twenty-three (23) wells. The well records are included in **Appendix D** and their locations are presented in **Figure 5**.

Review of the records of the wells within 500 m of the site retrieved revealed that the wells are drilled wells extending to depths between 8.2 and 67.1 m. The well records shows that that the geological conditions within 500 m are relatively similar, and consist generally of mixed till materials including sand, clay, gravel and boulders from 0 . 8.0 m. Unidentified soil conditions, %auck+and %aoil+were found as overburden descriptions in a couple of well records, as noted in the table below. Bedrock conditions varied slightly between limestone, sandstone and occasionally shale. Bedrock starting depths also vary from 0.6 to 7.9 m.

The general subsurface conditions indicated in the well records within 500 m of the site are as follows:

MOE Well	Distance and Direction	Depth	(	Overburden Deta	ails	Bedrock Details	Groundwater	Static Water	Type of
Number	from Site (m)	(m)	Sand/ Fill (m)	Clay/ Loam (m)	Gravel/ Till (m)	Bedrock	Encountered (m)	Level (m)	water
1502181	210 N	14.0			0.6.4	6.4- 14.0 (Limestone)	14.0	2.4	Fresh
7112950	485 N	52.7		0.3.3		3.3 . 52.7 (Limestone)	51.5	4.7	Unspecified
1533566	385 N					2.1 . 29.8 (Sandstone)			
		67.1	0.2.1			29.8 - 38.7 (Limestone)	65.8	4.8	Unspecified
						38.7 - 67.1 (Sandstone)			
1531693	385 N	67.1			0.0.9	0.9 . 67.1 (Sandstone)	62.7	9.1	Fresh
1502249	370 N	25.9	0.1.2			1.2 . 25.9 (Sandstone)	25.2	4.5	Unspecified
1502248	330 N	29.9	0.0.3	0.3 . 1.8		1.8 . 29.9 (Sandstone)	24.3, 29.5	4.2	Fresh
1502246	335 N	24.4			0.1.5	1.5 . 24.4 (Sandstone)	9.1, 18.2, 30.1	1.5	Fresh
1517349	260 N	8.2	0.2.4			2.4 . 8.2 (Granite)	8.2	1.5	Fresh
1509925	215 N	19.2			0.3.9 %Boulders+	3.9 . 19.2 (Sandstone)	18.2	0.6	Fresh
1502175	360 NW	18.3	0.6.0			6.0 . 18.3 (Sandstone)	18.3	3.0	Fresh
1502176	250 NM	13.7		0.5.4		5.4 . 13.7 (Limestone)	13.7	1.8	Fresh

1502179	50 W					4.8- 7.62 (Limestone)			
		27.1			0.4.8	7.62 . 27.1 (Sandstone)	27.1	6.1	Fresh
1513436	100 SW	15.0		0. 3.6 %⊊oil+	3.6 . 4.8	4.8 . 15 (Limestone)	14.6	4.3	Fresh
1502180	140 S	16.8		0. 1.8 ‱oam+		1.8 . 16.8 (Limestone)	16.8	1.8	Fresh
1502177	195 S	18.2	0.2.1		2.1 . 6.1	6.1 . 18.2 (Sandstone)	18.2	1.8	Fresh
1512375	230 S	22.5	0.2.7			2.7 . 22.5 (Sandstone)	22.5	3.6	Fresh
1512265	245 S	14.6		0.0.9		0.9 . 14.6 (Limestone)	2.4, 6.4, 10.3	1.2	Fresh
1514664	220 SW	15.2			0.3.9	3.9 . 9.1 (Shale) 9.1 . 38.1 (Limestone)	9.7, 16.7	6.1	Fresh
1516052	15 S	54.2	0 - 2.8		2.8 . 7.9	7.9 . 13.1 (Limestone) 13.1 . 54.4 (Sandstone)	53.3	9.1	Fresh
1502178	310 SW	15.2			0.5.4	5.4 . 15.2 (Limestone)	14.6	3.9	Fresh
1510717	400 S	15.8	0.1.8			1.8 . 15.8 (Limestone)	15.2	2.1	Fresh
1514840	370 S	41.1	0.0.9 ‱opsoil+			0.9 . 41.1 (Limestone)	32.0	6.0	Fresh
1502250	370 S	24.1		0.0.6 ‰am+		0.6 . 19.8 (Sandstone) 19.8 . 24.0 (Granite)	18.2, 24.0	6.0	Fresh

#### 4.1 Groundwater from Test Pits

**Table 3** summarizes the water quality analysis from the test pit piezometers for nitrates, nitrites, ammonia and total kjeldahl nitrogen (TKN). The Laboratory Certificate of Analysis are included in **Appendix B**.

Nitrites were not detected (<0.05 mg/L) in any groundwater samples collected. Nitrate levels were found to be 0.5 mg/L in TP3 and <0.1 mg/L in both TP1 and TP7, below the ODWS of 10 mg/L. Ammonia was measured to be 0.28, 0.39 and 1.66 mg/L in TP1, TP3 and TP7, respectively. There are no set ODWS for ammonia.

TKN values were reported as 78.1, 65.3 and 131 mg/L, in TP1, TP3 and TP7, respectively. There are no set ODWS for TKN; however, based on the measured groundwater elevations which suggest that the overburden groundwater flow direction is to the north, TP7 can be considered a background location. This would indicate that the background levels of TKN are higher than those downgradient (TP1 and TP3). TP7 is located along the extents of one of the existing septic beds on the property, and additionally, during the advancement of TP7, organic material including a tree stump was encountered. Both of which (septic and other organic decomposition) could contribute to the elevated levels of TKN across the central portion of the Site.

#### 5 REASONABLE USE OF GROUNDWATER

According to Guideline B-7, reasonable current and potential uses shall be established with respect to specific soil and water bearing units in the subsurface and would apply to all of the ground lying beneath a particular property. A decision on the reasonable use is based on the present use of groundwater in the vicinity and its potential use. The current and potential uses of the aquifers identified in Section 4 are identified below.

#### 5.1 Surficial Sand/Clay/Till Groundwater

The surficial sand/clay/till groundwater is unlikely to be used as a water supply based on the following:

- The Site and the adjacent properties are currently serviced by municipal water although water well records were identified in the area.
- Based on the well records reviewed and the shallow overburden conditions, no shallow wells were identified on the subject site or adjacent lands. Generally, the overburden conditions are not suitable for construction of a well.
- The buildings in this area are serviced by private septic systems; therefore, the current use of the overburden groundwater is for the attenuation of the septic system effluent.

#### 5.2 Bedrock/Till Aquifer

Twenty-three (23) well records were available for properties located within a 500 m radius of the Site. The records indicate that all twenty-three (23) wells tap into bedrock aquifer. Although it is our understanding that municipal water is available for the neighbouring properties, it is unknown at this time if these wells are still present or continue to be used for potable purposes.

#### 6 TERRAIN ANALYSIS AND SEPTIC DESIGN

The terrain analysis was conducted to demonstrate that the unconsolidated material on the Site is appropriate for the construction of an on-site subsurface sewage disposal system, with consideration taken regarding the existing installation.

The subsurface conditions indicated for the Site are considered suitable for a Class IV sewage disposal system with a fully raised leaching bed depending on the lot specific soil and groundwater conditions at the actual location of the proposed septic system leaching bed. The leaching bed should be constructed to conform to the specifications set out in the Ontario Building Code (OBC). As part of this assessment, an analysis was carried out to ensure that sufficient space exists at the Site for the construction of a third septic system in accordance with the OBC which will service the proposed assembly hall.

As previously mentioned, the existing temple is serviced with two (2) sewage disposal systems located at the north and south sides of the buildings, respectively. Both are constructed with 9,000 L fibreglass septic tanks and 8 runs of 13.3 m in length piping. The existing septic systems were designed for a combined sewage flow of 3,750 L/day, assuming occupancy of 250 individuals and the use of 15 L/day per individual.

As a conservative approach to determining the expected largest septic system envelope required to service the proposed assembly hall, a septic system envelope size was calculated assuming a fully raised bed with mantle, a percolation rate of 12 min/cm for the imported sand required and a daily sewage flow of 21,600 L as calculated below.

The daily sewage flow was calculated assuming 850 persons visit the Site daily, of which approximately 600 individuals will occupy the proposed Assembly Hall. In accordance with Schedule 8 of the OBC, it is assumed that each individual which occupies the Site will discharge 36 L/day into the septic system. This is the set value for an Assembly Hall equipped with a kitchen facility. Both the existing and the proposed buildings are equipped, or will be equipped with a kitchen. As previously mentioned, the existing Temple is serviced with two (2) septic systems located at the north and south sides of the buildings, each constructed with 9,000 L fibreglass septic tanks and 8 runs of 13.3 m in length piping. The existing septic systems were designed for a combined sewage flow of 3,750 L/day, assuming occupancy of 250 individuals and the use of 15 L/day per individual.

The total length of pipe required for the proposed septic bed for the proposed Assembly Hall, assuming imported fill, was calculated as approximately 1,300 m:

L = QT/200

where L = length of pipe (m)

Q = daily sewage flow for the proposed assembly hall (L/day)

T = percolation rate of the imported sand fill material (min/cm)

Therefore an area of approximately 2,090 m<sup>2</sup> is required for the septic bed assuming 87 pipes each having a length of 15 m and a spacing of 1.6 m between the pipes. A mantle of 15 m in length would be required along the down gradient portion of the bed. Based on the total coverage of the septic bed (raised portion and mantle plus a replacement area) would be approximately 5,440 m<sup>2</sup>.

The Site has a total area of  $38,000 \text{ m}^2$ . However, when the area of the proposed and existing buildings, septic systems and other site features (parking facility), are taken into consideration, an area of approximately  $32,000 \text{ m}^2$  is available for the installation of a septic system in accordance with the OBC to service an assembly hall with a design sewage flow of up to 21,600 L/day. The proposed site development plan is shown in **Figure 3**.

#### 6.1 Average Daily Water Demand Variance

It should be noted that the average daily water demand presented in the Site Servicing Report prepared by LRL, dated September 18, 2017 was calculated for the entire property using Section 7 of the OBC. The demand was calculated assuming a worst case scenario where all fixtures at the property, both the existing and the proposed buildings, are turned on simultaneously at the applicable flowrate for each fixture is specified in the OBC. The purpose of this calculation is to size the piping required to service the site.

#### 7 PRIVATE SEWAGE DISPOSAL SYSTEM IMPACT STUDY

The bedrock (sandstone, limestone, granite) aquifer has the potential to be used as a potable water source and therefore must be protected from the septic system effluent. The attenuation method was used to determine the impact of the effluent on this aquifer. The groundwater impact assessment addresses the ability of the land to attenuate the sewage effluent created by the development. Three (3) methods for conducting the assessment are outlined in MOECC *Procedure D-5-4 Technical Guideline for Individual On-Site Sewage Systems: Water Quality Impact Risk Assessment* (1996):

- Lot Size Consideration for lot greater than 10 000 m<sup>2</sup> (1 hectare);
- System Isolation Consideration for areas where the septic system is hydrogeologically isolated from the potable water source; and
- Contaminate Attenuation Consideration for sites that do not meet the above two points.

Based on the review of the available information and site visit (above), bedrock was encountered at depths less than 2.0 m across the Site, therefore the Site is considered hydrogeologically sensitive with areas of thin soil over bedrock.

As mentioned above, the lot size is 38,000 m<sup>2</sup> with approximately 32,000 m<sup>2</sup> available for the installation of the proposed septic system. The lot size consideration for lots greater than 10 000 m<sup>2</sup> does not apply since the system is considered a large sewage disposal system based on the anticipated sewage demand of 25,350 L/day, including the existing system. Therefore, *Contamination Attenuation*+ was considered in this terrain analysis. The critical contaminant identified was nitrates.

No bedrock outcrops were encountered on the Site at the time of the study. As mentioned above in Section 4, a minimum of between 0.8 and 2.1 m of overburden was encountered over the bedrock across the Site. The overburden material generally consisted of a fill material in the test pits with a stratum of till (TP3) or silty sand (TP1) above the bedrock in areas. The receiving groundwater for the septic system effluent is identified as the fill, silty sand and till. This groundwater is not considered an aquifer as it was encountered at depths less than 2.0 m below grade. As stated in Section 5.1, this groundwater is not a suitable supply aquifer for potable water based on its assumed poor yield, poor quality, shallow depth and likely used for the attenuation of the Sites existing and the neighbouring properties septics. This groundwater is considered a suitable attenuation zone because alternative sources of water are available (i.e. municipal water or bedrock aquifer).

The isolating feature between the receiving groundwater encountered in this overburden stratum and the bedrock aquifer is inferred to be the native till material. The well records within 500 m of the Site indicate that a minimum of 0.6 m of overburden is present. Due to the shallow depth to bedrock it is recommended that on-going monitoring be carried out to confirm the treated effluent nitrate levels as well as monitoring to ensure that reasonable use criteria of 2.5 mg/L for nitrates at the property boundaries are met. Further details of this recommendation are provided below in Section 10.

#### 7.1 Contaminant Attenuation Method (Predictive Assessment)

The Contaminant Attenuation Method (Predictive Assessment) was used to determine the potential impact of the proposed on-Site septic systems at the boundary of the Site. This procedure assesses the risk that the individual on-site systems will cause the concentration of

the nitrate-nitrogen exceed 2.5 mg/L at the property boundaries. Dilution is the attenuation mechanism considered for nitrates, with precipitation being the only source of infiltration. The following parameters and assumptions were used in the nitrate attenuation calculations:

- The MOECC¢ Design Guidelines for Sewage Works, Chapter 22: Large Subsurface Disposal Systems, defines the infiltration factor as 250 mm;
- The average background nitrate concentration was calculated to be 0.17 mg/L based on the laboratory analytical results of the groundwater samples collected from TP1, TP3 and TP7;
- Impervious areas (existing and proposed) were calculated to be of 3,168 m<sup>2</sup> for the buildings and 5,975 m<sup>2</sup> of paved driveway and parking areas; and
- That further treatment, dosage and filtration systems will be required as part of the septic design to have a nitrate concentration of 2.5 mg/L for the sewage.

Based on the total proposed sewage volume for the entire Site of 25,350 L/day, the existing lot size, soil conditions, a nitrate concentration of the sewage of 40 mg/L, the calculated levels of nitrates at the property limits is estimated as 22.5 mg/L. presented in the attached **Table 4A**. This is above the Procedure B-7 Reasonable Use limit of 2.5 mg/L at the properties boundaries. Based on the *Contaminant Attenuation Method*+the current lot size and soil conditions are not suitable to attenuate the nitrate impacts generated by the septic systems of the development in accordance with the Procedure B-7 requirements.

The above calculations are based on the current D-5-4 guideline which requires the use of 40 mg/L as the contaminant source as per Section 5.6.2 (a). A wastewater treatment system such as Bionest+is an advanced tertiary treatment system which has reported reductions to the waste water effluent total nitrogen levels of 68.75%. These results were obtained through the BNQ 3680-910 certification for Bionest system models (SA-3 to SA-6). This particular system is approved by the OBC and the Building Materials Evaluation Commission of the Ontario Ministry of Municipal Affairs and Housing. Furthermore, Section 5.7 of the D-5-4 guideline states that the Ministry recognises Weat as research continues, information and technologies may become available which warrant minor or substantial revisions to this guideline+.

It is our understanding that additional treatment and components to a &ionest+ systems (or equivalent), can reduce the nitrate level in sewage effluent from 40 mg/L to 2.5 mg/L (93.75% reduction). For the purpose of this report, we will refer to this as an advanced tertiary system. It is understood that as part of the sewage design for this Site, which is not LRL\$ mandate at this time, sufficient documentation will be provided to support this. Based on a treated nitrate level in the proposed system effluent of 2.5 mg/L, the proposed assembly hall the nitrogen levels at the property boundaries is reduced to 4.5 mg/L, which is still above the reasonable use limit of 2.5 mg/L. The calculations are presented in **Table 4B**.

The nitrates can be further reduced if a standard Bionest system is added to the two (2) existing septic systems with a reported reduction from 40 mg/L to 12.5 mg/L. This is in conjunction with advanced tertiary system as noted above with a reported reduction from 40 mg/L to 2.5 mg/L. Based on this configuration, the calculated nitrate level at the property boundary is 2.2 mg/L, below the Procedure B-7 Reasonable Use limit of 2.5 mg/L at the property limits. The calculations are presented in **Table 4C**.

#### 8 DISCUSSION

Based on a review of geological maps and MOECC well record database and conducting a test pitting program, two (2) aquifers/groundwater zones were identified: within the overburden (fill,

sand, till) and within the bedrock (limestone, sandstone, granite) at depths ranging from 8.2 to 65.8 m in depth.

According to Guideline B-7, reasonable current and potential uses shall be established with respect to specific soil and water bearing units in the subsurface and would apply to all of the ground lying beneath a particular property. Even though the site is service by municipal water, the bedrock aquifers potential use as a potable water source must be considered. The overburden groundwater stratum was not considered a potential source of potable water since it is too shallow for the proper construction of a dug well and it is currently used to attenuate the septic system effluent the Site, and likely neighbouring properties. The bedrock aquifer has the potential to be used as a water supply source based on the well records reviewed.

Since the bedrock aquifer has the potential to be used as a potable water source it must be protected from the septic system effluent. The system contamination attenuation method was used to determine the impact of the effluent on this aquifer. The isolating feature, and attenuation zone, between the receiving groundwater stratum and the bedrock aquifer is the overburden (fill, till, clay) which separates them. This layer is found to have a thickness of at least 0.6 m.

Based on the hydrogeological assessment sensitive conditions are present on the site due to thin overburden. The overburden generally consists of fill to bedrock, with till or silty sand observed at two (2) of the test pits. Due to the thin soils and sensitive site conditions it is recommended that the leaching bed of the proposed system be fully raised and an appropriate groundwater monitoring program be implemented. As a precautionary measure, the on-going monitoring program should include the bedrock aquifer.

#### 9 CONCLUSION

Based on our review of available information and the results of the groundwater sampling and laboratory analytical programs, we conclude the following:

- 1. Sufficient area exists on the property for the installation of a septic system in accordance with the OBC to service the proposed Assembly Hall with a design sewage flow of up to 21,600 L/day.
- 2. In accordance with the D-5-4 guideline, without pre-treatment the lot area of the Site is not of sufficient size to attenuate the impacts of the proposed septic system based on the *Contaminant Attenuation Method*+using 40 mg/L as the contaminant source as per Section 7.
- 3. Pre-treatment of the sewage from the existing sewage disposal systems with a Bionest system model (SA-3 to SA-6) certified treatment system, which has a documented and measured output of 12.5 mg/L and pre-treatment of the proposed system with an augmented Bionest system with a reported output of 2.5 mg/L yields a calculated nitrate concentration at the property line of 2.2 mg/L, based on the *"Contaminant Attenuation Method"*.
- 4. Records of domestic wells were retrieved within 500 m of the site. The potable water source of these wells is the bedrock aquifer. A thin layer of either clay, gravel or till, with some sand in areas, being between 0.9 and 7.6 m thick over bedrock.

#### **10 RECOMMENDATIONS**

- 1. Pre-consultation with the Ontario Ministry of the Environment and Climate Change is recommended at the planning stage of this project with respect to the proposed septic design and treatment options.
- 2. It is recommended that a plan showing which properties within 500 m of the Site are serviced with municipal water are obtained from the City of Ottawa. If properties without municipal services are identified, it is recommended that the property owners be contacted to confirm if they are supplied by a private well and if so, obtain details regarding their well, where possible. It is recommended that the findings be provided at the time of an Application for Site Plan Control.
- 3. The daily volume, calculated using the 36 L/day per individual value set out in the OBC, is in excess of 10,000 L. Therefore, it is recommended that an application for an Environmental Compliance Approval be submitted to the MOECC at the time of an Application for Site Plan Control. Note that pre-consultation with the MOECC is required prior to submission.
- 4. The septic system should be placed at least 15 m from any drilled wells/water service and 30 m from any dug well. It is recommended that the water table be surveyed prior to installation. The 20 m setback from the normal high water mark of the identified stream east of the proposed development footprint.
- 5. The treatment system required for septic should be designed accordingly and monitored/maintained.
- 6. It is recommended that groundwater monitoring wells be installed in compliance with *O. Reg. 903: Wells* to aid in the interpretation of groundwater flow direction and monitoring potential impacts to the identified supply aquifers. The findings would be submitted at the time of the Application for Site Plan Control.
- 7. It is recommended that a geodetic benchmark be used for further investigations on the site, including the proposed monitoring wells and groundwater elevations.
- 8. Due to the thin soils and sensitive site conditions it is recommended that the leaching bed of the proposed system be fully raised and an appropriate groundwater monitoring program are implemented.

#### 11 LIMITATIONS

The findings contained in this report are based on data and information collected during the Terrain Analysis of the subject property conducted by LRL Associates Ltd. The conclusions and recommendations are based solely on site conditions encountered at the time of our fieldwork on May 8<sup>th</sup>, 2017, supplemented by historical information and data obtained as described in this report. The information presented in this report represents the groundwater conditions at the locations sampled. Due to natural variations in geological conditions, no inference is made to the soil or groundwater conditions between sampling points. No assurance is made regarding changes in conditions subsequent to the time of this investigation. If additional information is discovered or obtained, LRL Associates Ltd. should be requested to re-evaluate the conclusions presented in this report and to provide amendments as required.

In evaluating the subject property, LRL Associates Ltd. has relied in good faith on information provided by individuals as noted in this report. We assume that the information provided is

Mr. L. Phillips June 22, 2017 (revised February 14, 2018)

factual and accurate. We accept no responsibility for any deficiencies, misstatements or inaccuracies contained in this report as a result of omissions, misinterpretation or fraudulent acts of the persons contacted.

Yours truly, LRL Associates Ltd.

Jessica Arthurs Senior Environmental Technician

M. P. WHITNEY 100110298 PROVINCE OF ON Matthew Whitney, P. Eng.

Encl.

Figure 1 – Site Location

Figure 2 - Site Plan

Figure 3 – Proposed Development Plan

Figure 4 – Test Pit Locations, Groundwater Elevations and Groundwater Contours

Figure 5 – Well Locations, Ontario Well Records

Table 1 – Summary of Groundwater Elevations in Test Pits

Table 2 - Summary of Sieve & Hydrometer Analyses

Table 3 – Summary of Analysis of Water Samples Collected From the Test Pits

Table 4A – Nitrate Attenuation Calculations (Standard Disposal System)

Table 4B – Nitrate Attenuation Calculations (Tertiary Disposal System)

Table 4C – Nitrate Attenuation Calculations (Advanced Tertiary System)

Appendix A – Test Pit Logs

Appendix B – Laboratory Certificates of Analysis

Appendix C - Sieve & Hydrometer Analysis

Appendix D – Ontario Well Record Printouts

FIGURES



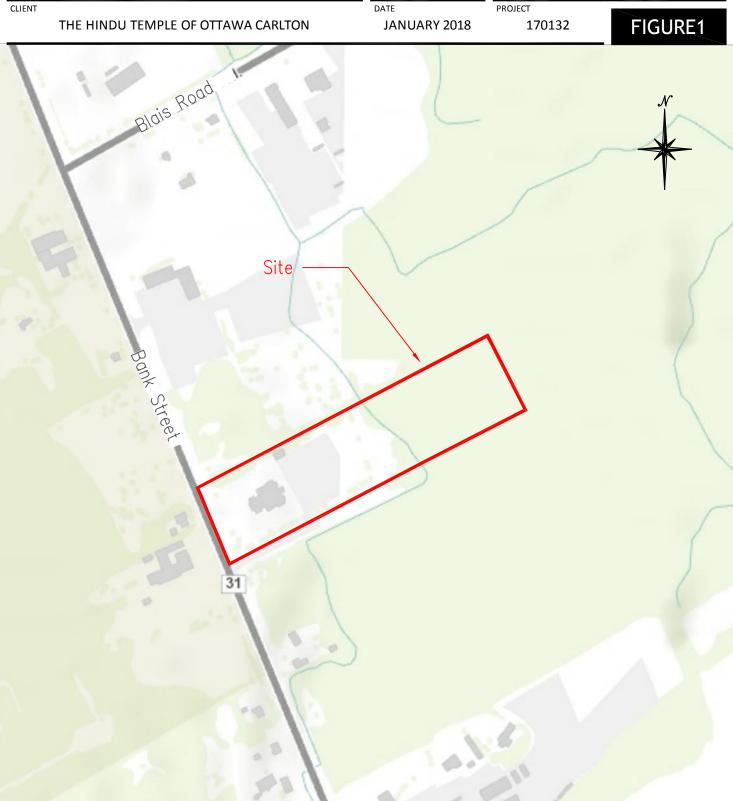
PROJECT

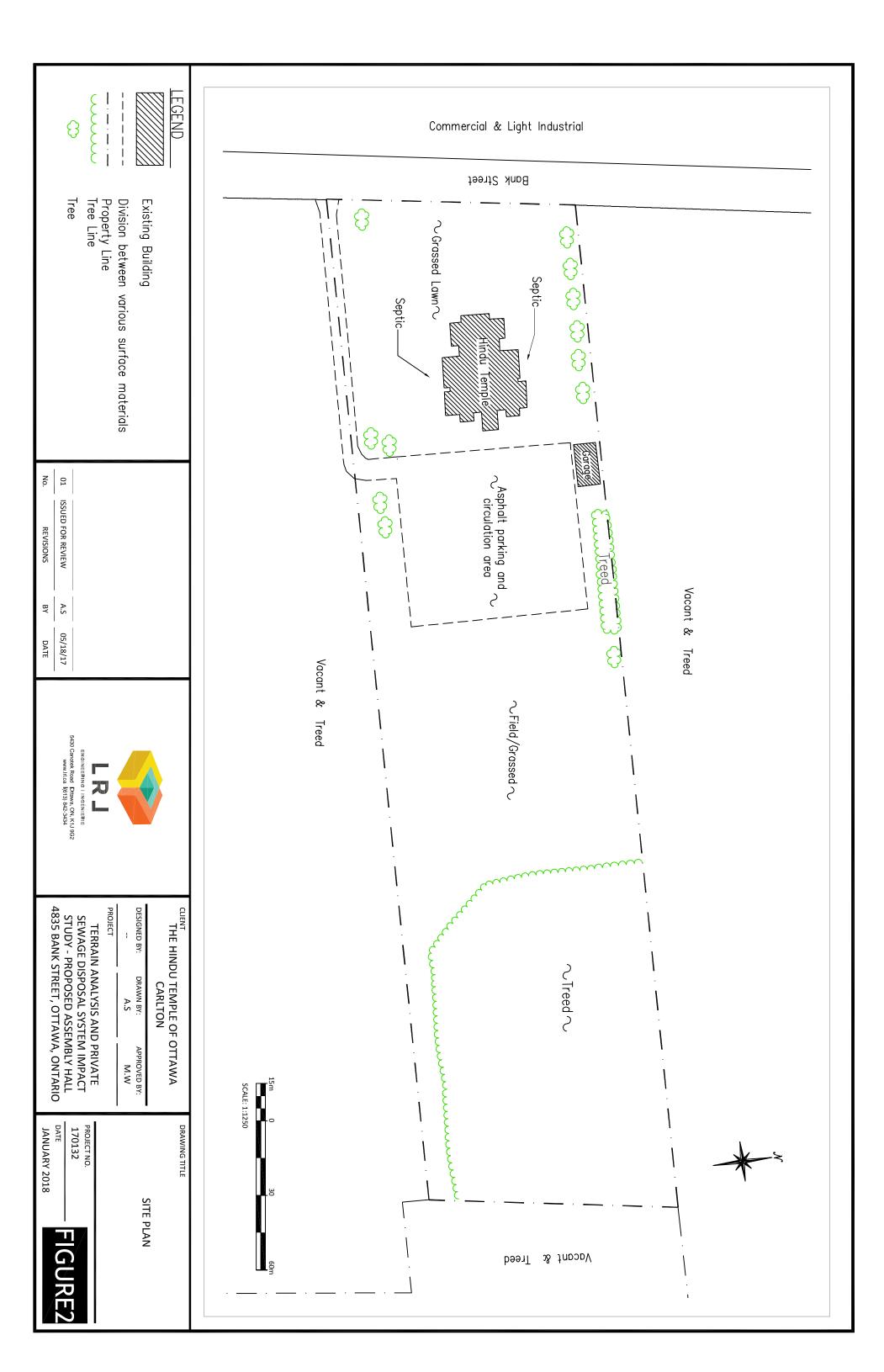
#### TERRAIN ANALYSIS AND PRIVATE SEWAGE DISPOSAL SYSTEM IMPACT STUDY PROPOSED ASSEMBLY HALL 4835 BANK STREET, OTTAWA, ONTARIO

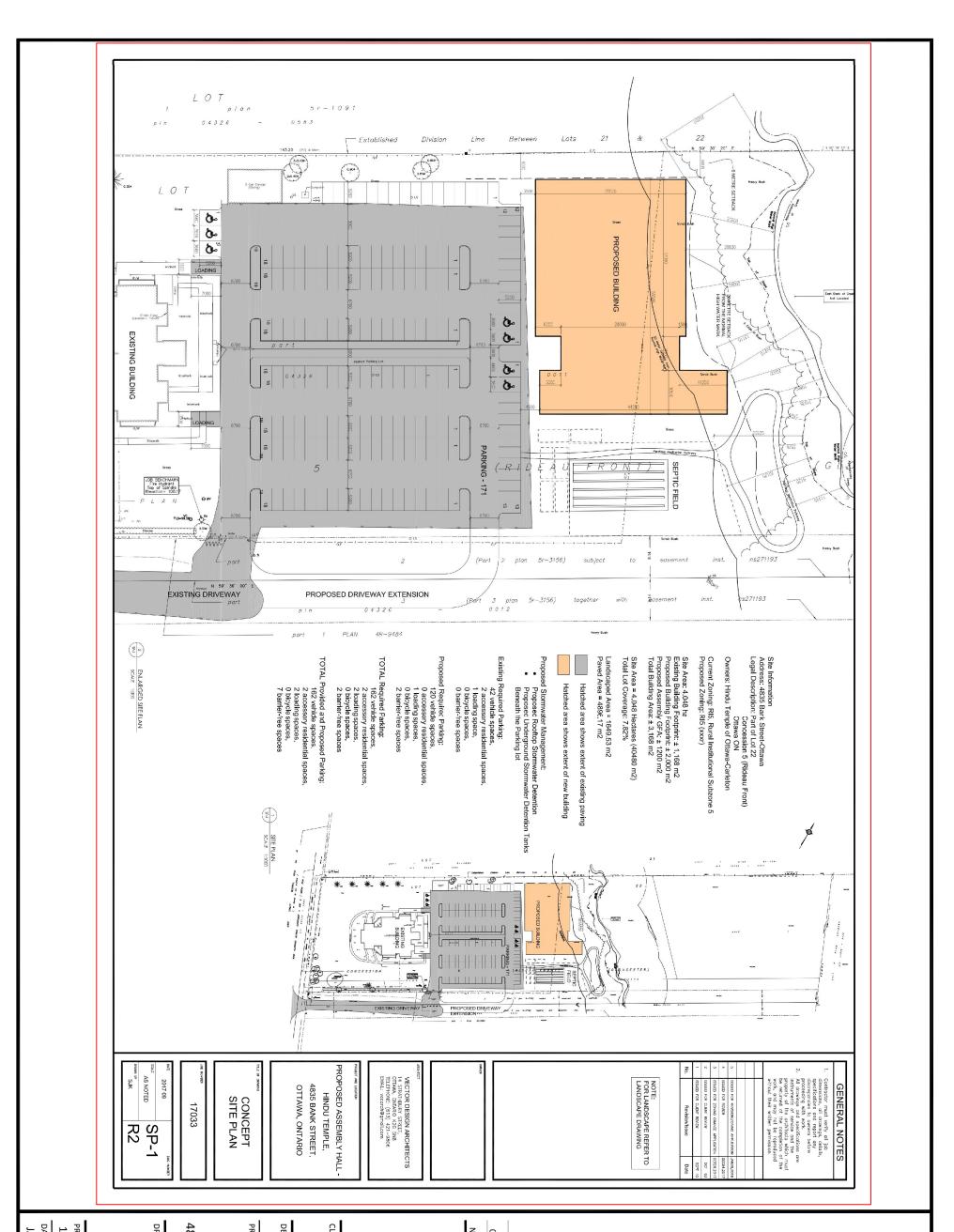
DRAWING TITLE

#### SITE LOCATION (NOT TO SCALE) SOURCE: GEOOTTAWA

CLIENT









DATE JANUARY 2018

PROJECT NO. 170132

## PROPOSED SITE LAYOUT

DRAWING TITLE

# SEWAGE DISPOSAL SYSTEM STUDY - PROPOSED ASSEMBLY HALL 4835 BANK STREET, OTTAWA, ONTARIO

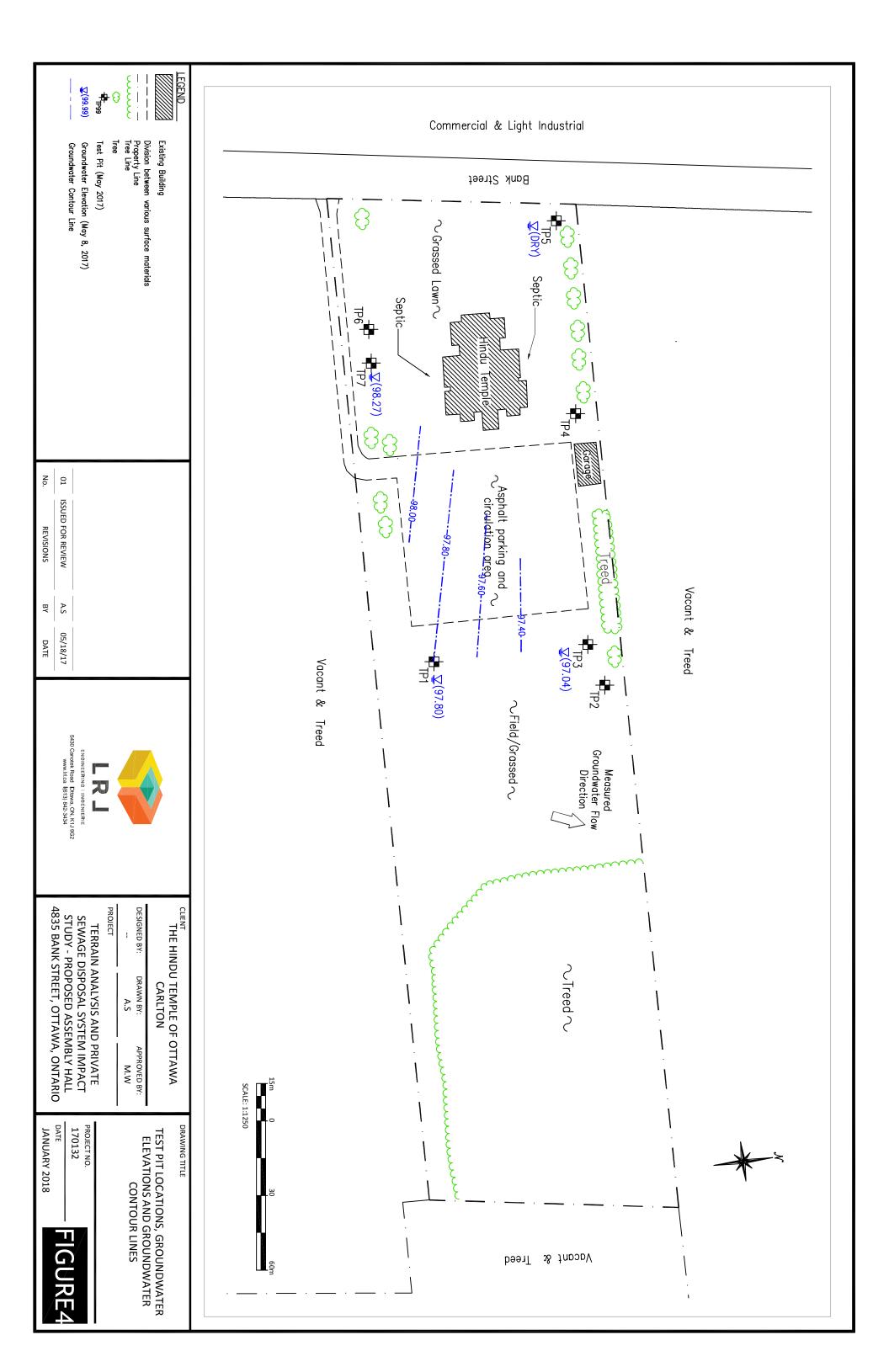
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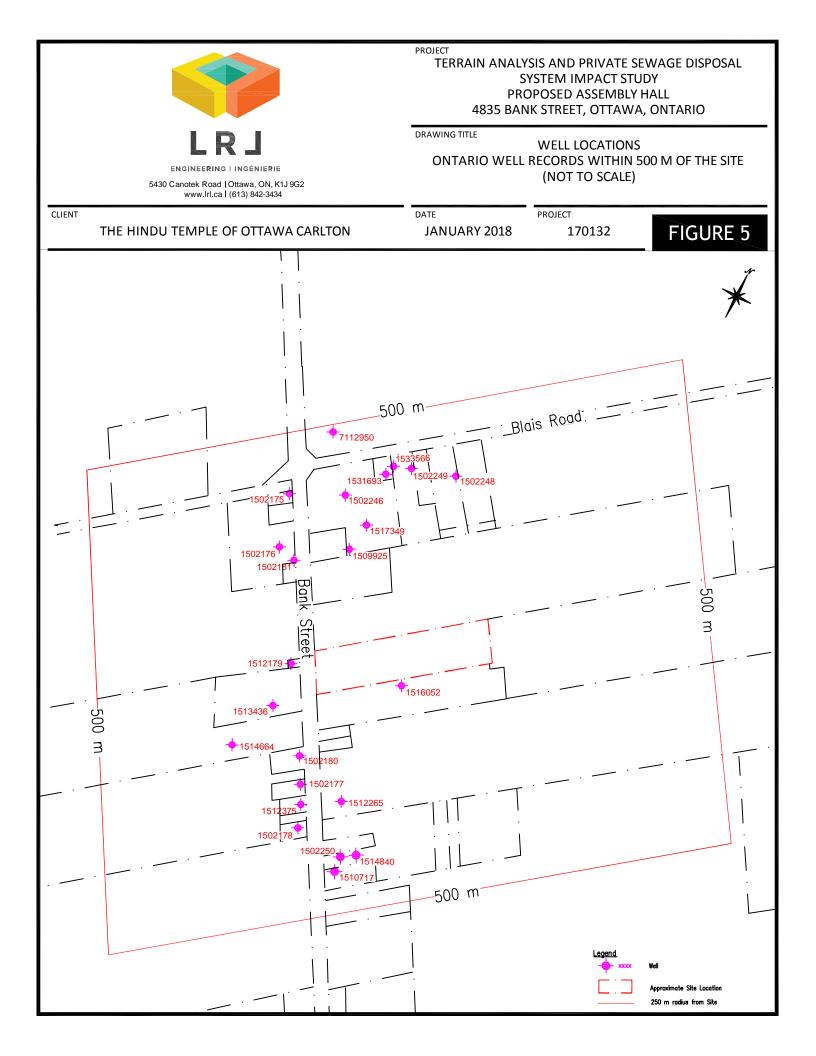
THE HINDU TEMPLE OF OTTAWA CARLETON	www.lrl.ca ((613) 842-3434
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REVISIONS	ISSUED FOR REVIEW
ΒΥ	J.A.
DATE	01/31/18





TABLES

#### Table 1 Summary of Groundwater Elevations in Test Pits

Terrain Analysis and Private Sewage Disposal System Impact Study - Proposed Assembly Hall

4835 Bank Street, Ottawa, Ontario

#### LRL File: 170132

	Ground Surface Elevation <sup>1</sup>	Reference Elevation <sup>2</sup>	Depth To Wa	ter Table (m)	Groundwater Elevation
Test Pit	(m)	(m)	Reference Point	Ground Surface	(m)
TP1	98.21	99.15	1.35	0.41	97.80
TP2	97.09				
TP3	97.75	98.98	1.94	0.71	97.04
TP4	99.54				
TP5	98.78	99.02	DRY		
TP6	99.38				
TP7	99.60	100.79	2.52	1.33	98.27

NOTES

<sup>1</sup> Elevations are based off of a temporary benchmark established at the top of the east arm of the fire hydrant along the southof the Site (100.00 m).

<sup>2</sup> Reference elevation is top of piezometer.

### Summary of Sieve & Hydrometer Analyses Terrain Analysis and Private Sewage Disposal System Impact Study - Proposed Assembly Hall

#### 4835 Bank Street, Ottawa, Ontario

LRL File: 170132

			Sand					
		Gravel	Coarse	Medium	Fine	Silt	Clay	
Sample	Depth (m)	>4.75 mm	2.0 - 4.75 mm	425 µm - 2.0 mm	75 - 425 µm	2 - 75 µm	< 2µm	Soil Texture Classification
TP1-3	1.8 - 2.0	4.8	1.2	1.8	6.5	63.8	22.0	Silt Loam
TP3-6	1.4 - 1.6	21.3	7.0	12.7	20.1	39	.0	Fine Silty Sand

NOTES:

<sup>1</sup> Unified Soil Classification System

#### Table 3 Summary of analysis of water samples collected from the test pits.

Terrain Analysis and Private Sewage Disposal System Impact Study - Proposed Assembly Hall

4835 Bank Street, Ottawa, Ontario

LRL File: 170132

			Ontario Drii Stano	nking Water dards	Sample		
Parameter	Units	MRL	Standard	Туре	TP1	TP3	TP7
Sample Date (d/m/y)					05/08/2017	05/08/2017	05/08/2017
Ammonia	mg/L	0.01			0.28	0.39	1.66
Total Kjeldahl Nitrogen	mg/L	0.1			78.1	65.3	131
Nitrate as N	mg/L	0.1	10	MAC	<0.1	0.5	<0.1
Nitrite as N	mg/L	0.05	1	MAC	<0.05	<0.05	<0.05

NOTES

MAC Maximum Acceptable Concentration

MRL Minimum Reportable Limit

## Table 4A Nitrate Attenuation Calculations (Standard Disposal System) Terrain Analysis - Proposed Assembly Hall 4835 Bank Street, Ottawa, Ontario LRL File: 170132

#### 1. Area Available for Infiltration

Number of Lots			n	1
Approximate footp	rint of existing t	Н	1068 m <sup>2</sup>	
Approximate footp	rint of existing	Н	100 m <sup>2</sup>	
Approximate footp		Н	2000 m <sup>2</sup>	
Approximate area	of paved drive	d	5975 m <sup>2</sup>	
Approximate Leng		L	0 m	
Approximate Widtl	n of Road	W	0 m	
Total Area of Prop	erty			38000 m <sup>2</sup>
Impervious Area				9143.0 m <sup>2</sup>
	Roads	lxw	0 m <sup>2</sup>	
	Driveway	n x d	5975 m <sup>2</sup>	
	Buidling	n x H	3168 m <sup>2</sup>	
Area available Int	filtration	А	28,857 m <sup>2</sup>	

#### 2. Nitrate Diluation Calculations

Nitrate Concentration of Infiltration	C <sub>i</sub>	0.0 mg/L <sup>6</sup>
Site Infiltration	$Q_i = A^* PI$	7214 m <sup>3</sup>
Daily Sewage Volume - Existing	Q <sub>d,1</sub>	3.75 m <sup>3</sup>
Maximum Yearly Sewage Volume - Existing (water)	Q <sub>e,1</sub> =365*n*Q <sub>d</sub>	1369 m <sup>3</sup>
Nitrate Concentration in Sewage - Existing	C <sub>e,1</sub>	40 mg/L
Daily Sewage Volume - Proposed New Development	Q <sub>d,2</sub>	21.6 m <sup>3</sup>
Maximum Yearly Sewage Volume (water) - Proposed New Developme	ent Q <sub>e,2</sub> =365*n*Q <sub>d</sub>	7884 m <sup>3</sup>
Nitrate Concentration in Sewage - Proposed New Development	C <sub>e,2</sub>	40 mg/L
Maximum Allowable Nitrate Concentration at Boundary	C <sub>m</sub>	2.5 mg/L
Increase in Nitrate Concentration at Boundaries	$C = (Q_{e,1}C_{e,1}+Q_{e,2}C_{e,2}+Q_iC_i)/(Q_{e,1}+Q_{e,2}+Q_i)$	22.5 mg/L

NOTES

<sup>1</sup> Table 2: Infiltration Factors, Hydrogical Technical Information Requirements for Land Development Applications, Ministry of the Energy and Environment, April 1995.

<sup>2</sup> Thornthwaite and Mathera (1957) Instructions and Tables for Computing Potential Evapotranspiration and the Water Balance.

<sup>3</sup> Moisture surplus for data for Mason Anger (Environment Canada Meteorological Service of Canada, 2010).

<sup>4</sup> Area based on proposed development plan

<sup>5</sup> As per Technical Guideline for Individual On-Site Sewage Systems: Water Quality and Impact Risk Assessment, Ministry of the Energy and Environment, August 1996.

<sup>6</sup> Average of nitrate concentrations from test pits water sample collected on May 8, 2017

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## Table 4B Nitrate Attenuation Calculations (Tertiary Disposal System) Terrain Analysis - Proposed Assembly Hall 4835 Bank Street, Ottawa, Ontario LRL File: 170132

#### 1. Area Available for Infiltration

Number of Lots			n	1
Approximate footp	rint of existing t	Н	1068 m <sup>2</sup>	
Approximate footp	rint of existing of	Н	100 m <sup>2</sup>	
Approximate footp	rint of propsed	Н	2000 m <sup>2</sup>	
Approximate area	of paved drivev	d	5975 m <sup>2</sup>	
Approximate Lengt		L	0 m	
Approximate Width	n of Road	W	0 m	
Total Area of Prope	erty			38000 m <sup>2</sup>
Impervious Area				9143.0 m <sup>2</sup>
	Roads	lxw	0 m <sup>2</sup>	
	Driveway	n x d	5975 m <sup>2</sup>	
	Building	n x H	3168 m <sup>2</sup>	
Area available Inf	iltration	А	28,857 m <sup>2</sup>	

#### 2. Nitrate Diluation Calculations

Nitrate Concentration of Infiltration	C <sub>i</sub>	0.0 mg/L <sup>6</sup>
Site Infiltration	$Q_i = A^*PI$	7214 m <sup>3</sup>
Daily Sewage Volume - Existing	Q <sub>d,1</sub>	3.75 m <sup>3</sup>
Maximum Yearly Sewage Volume - Existing (water)	Q <sub>e,1</sub> =365*n*Q <sub>d</sub>	1369 m <sup>3</sup>
Nitrate Concentration in Sewage - Existing	C <sub>e,1</sub>	40 mg/L
Daily Sewage Volume - Proposed New Development	Q <sub>d,2</sub>	21.6 m <sup>3</sup>
Maximum Yearly Sewage Volume (water) - Proposed New Developme	ent Q <sub>e,2</sub> =365*n*Q <sub>d</sub>	7884 m <sup>3</sup>
Nitrate Concentration in Sewage - Proposed New Development	C <sub>e,2</sub>	2.5 mg/L
Maximum Allowable Nitrate Concentration at Boundary	C <sub>m</sub>	2.5 mg/L
Increase in Nitrate Concentration at Boundaries	$C = (Q_{e,1}C_{e,1}+Q_{e,2}C_{e,2}+Q_iC_i)/(Q_{e,1}+Q_{e,2}+Q_i)$	4.5 mg/L

NOTES

<sup>1</sup> Table 2: Infiltration Factors, Hydrogical Technical Information Requirements for Land Development Applications, Ministry of the Energy and Environment, April 1995.

<sup>2</sup> Thornthwaite and Mathera (1957) Instructions and Tables for Computing Potential Evapotranspiration and the Water Balance.

<sup>3</sup> Moisture surplus for data for Mason Anger (Environment Canada Meteorological Service of Canada, 2010).

<sup>4</sup> Area based on proposed development plan

<sup>5</sup> As per Technical Guideline for Individual On-Site Sewage Systems: Water Quality and Impact Risk Assessment, Ministry of the Energy and Environment, August 1996.

<sup>6</sup> Average of nitrate concentrations from test pits water sample collected on May 8, 2017

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## Table 4C Nitrate Attenuation Calculations (Advanced Tertiary System) Terrain Analysis - Proposed Assembly Hall 4835 Bank Street, Ottawa, Ontario LRL File: 170132

#### 1. Area Available for Infiltration

Number of Lots		n	1
Approximate footprint of exis	ing temple	Н	1068 m <sup>2</sup>
Approximate footprint of exis	ing garage	Н	100 m <sup>2</sup>
Approximate footprint of prop		Н	2000 m <sup>2</sup>
Approximate area of paved d	riveways and parking (proposed and existing)	d	5975 m <sup>2</sup>
Approximate Length of Road	L	0 m	
Approximate Width of Road	W	0 m	
Total Area of Property			38000 m <sup>2</sup>
Impervious Area			9143.0 m <sup>2</sup>
Roads	l x w	0 m <sup>2</sup>	
Drivewa	y nxd	5975 m <sup>2</sup>	
Building	n x H	3168 m <sup>2</sup>	
Area available Infiltration		А	28,857 m <sup>2</sup>

#### 2. Nitrate Diluation Calculations

Nitrate Concentration of Infiltration	C <sub>i</sub>	0.0 mg/L <sup>6</sup>
Site Infiltration	$Q_i = A^*PI$	7214 m <sup>3</sup>
Daily Sewage Volume - Existing	$Q_{d,1}$	3.75 m <sup>3</sup>
Maximum Yearly Sewage Volume - Existing (water)	Q <sub>e,1</sub> =365*n*Q <sub>d</sub>	1369 m <sup>3</sup>
Nitrate Concentration in Sewage - Existing	C <sub>e,1</sub>	12.5 mg/L
Daily Sewage Volume - Proposed New Development	Q <sub>d,2</sub>	21.6 m <sup>3</sup>
Maximum Yearly Sewage Volume (water) - Proposed New Develop	oment Q <sub>e,2</sub> =365*n*Q <sub>d</sub>	7884 m <sup>3</sup>
Nitrate Concentration in Sewage - Proposed New Development	C <sub>e.2</sub>	2.5 mg/L
Maximum Allowable Nitrate Concentration at Boundary	C <sub>m</sub>	2.5 mg/L
Increase in Nitrate Concentration at Boundaries	$C = (Q_{e,1}C_{e,1}+Q_{e,2}C_{e,2}+Q_iC_i)/(Q_{e,1}+Q_{e,2}+Q_i)$	2.2 mg/L

#### NOTES

<sup>1</sup> Table 2: Infiltration Factors, *Hydrogical Technical Information Requirements for Land Development Applications*, Ministry of the Energy and Environment, April 1995.

<sup>2</sup> Thornthwaite and Mather**q** (1957) Instructions and Tables for Computing Potential Evapotranspiration and the Water Balance.

<sup>3</sup> Moisture surplus for data for Mason Anger (Environment Canada Meteorological Service of Canada, 2010).

<sup>4</sup> Area based on proposed development plan

5 As per Technical Guideline for Individual On-Site Sewage Systems: Water Quality and Impact Risk Assessment, Ministry of the Energy and Environment, August 1996.

<sup>6</sup> Average of nitrate concentrations from test pits water sample collected on May 8, 2017

APPENDIX A Test Pit Logs



Project No.: 170132

Client: Hindu Temple of Ottawa Carleton

Date: May 08, 2017

Excavation Method: Backhoe

Project: Terrain Analysis

Location: 4835 Bank Street, Ottawa, ON

Field Personnel: JA

s	UBSURFACE PROFILE		MPLE C	ATA				
Depth	Soil Description	Elev./Depth (m)	Lithology	Sample Number	Shear S (kF	Strength Pa) 150	Water Content           ▼         (%)         ▼           25         50         75           Liquid Limit         □         (%)         □           25         50         75	Water Level (Standpipe or Open Excavation)
0 ft m 0 0	Ground Surface	98.21						
	TOPSOIL Sandy, dark brown, dry.	0.00 98.01						js (08/05/1
- 1_ - - 2 - - - - - -	FILL Sandy clay, dark brown, dry.	0.20						▲ 0.4 m bgs (08/05/17)
3—	Silty Sand	97.31 0.90	• •• •					
1	Trace clay, with clay seam from 1.7 to 1.8 m bgs, brown, dry.			1				
- 4- - - - -	Sieve analysis completed.							
5— —								
_			_	2	-			
6 6								
2				3				
7—	End of Test Pit	<u>96.11</u> 2.10		0				
-	Refusal over inferred bedrock.							
 8 -								
Eastin	g: N/M	Northing	: N/M		1	NOTES:		
	atum: Top east arm of hydrant at south					BGS- E	Below Ground Surface	
Groun	dsurface Elevation: 98.21	Top of R	iser Elev.	: 99.15				
Excava	ation Width: 1.2 m	Excavati	on Lengti	<b>h:</b> 1.5 m				



Project No.: 170132

Client: Hindu Temple of Ottawa Carleton

Date: May 08, 2017

Excavation Method: Backhoe

Project: Terrain Analysis

Location: 4835 Bank Street, Ottawa, ON

Field Personnel: JA

S	UBSURFACE PROFILE	SAN	NPLE I	DATA				
Depth	Soil Description	Elev./Depth (m)	Lithology	Sample Number	Shear S (kF 50	<b>Strength</b> Pa) 150	Water Content           ▼         (%)         ▼           25         50         75           Liquid Limit         (%)         □           25         50         75	Water Level (Standpipe or Open Excavation)
0 ft m 0 - - - - - - - - - - - - - -	Ground Surface FILL Silty sand with some clay, brown, saturated with water infiltration at 0.4 m bgs. Buried metal structure/waste at approximately 0.9 m bgs. End of Test Pit	97.09 0.00 96.19 0.90		4				
Eastin	g: N/M	Northing:	N/M			NOTES:		
Site Da	atum: Top east arm of hydrant at south e	ntrance (1	00.00 m	)		pit.	minated at 0.9 meters due to v w Ground Surface	olume of water in
Groun	dsurface Elevation: 97.09	Top of Ri	ser Elev	.:		DG0- Del0		
Excava	ation Width: 1.2 m	Excavatio	on Lengt	: <b>h:</b> 1.5 m				



Project No.: 170132

Client: Hindu Temple of Ottawa Carleton

Date: May 08, 2017

Excavation Method: Backhoe

Project: Terrain Analysis

Location: 4835 Bank Street, Ottawa, ON

Field Personnel: JA

S	UBSURFACE PROFILE	SAI		ГА					
Depth	Soil Description	Elev./Depth (m)	Lithology	Sample Number	Shear : (k 50	Strength Pa) 150	Water C           ▼         (%           25         50           Liquid         (%           25         50	) ⊽ 75 Limit	Water Level (Standpipe or Open Excavation)
0 ft m 0 0	Ground Surface	97.75							
0 - - - - - - - - - - - - -	TOPSOIL Sandy loam, dark brown, dry. Brick debris found in top 0.2 m bgs. FILL Sandy silt, trace boulders, brown, dry. Tire debris found at approximately 0.8 m bgs. TILL Silty sand, trace gravel, cobbles and boulders, brown, dry. Sieve analysis completed.	0.00 97.55 0.20		5					0.71 m bgs (08/05/17)
 - 5 				6	-				
		96.05 1.70	<b></b>						
- - - - - - - - - - - - - - - - - - -	End of Test Pit Refusal at 1.7 m bgs over inferred bedrock.	1.70							
-									1
E a a tim	a: 0454001	Northin	E017670			NOTES:			
Site Da	atum: Top east arm of hydrant at south e	entrance (1	: 5017670 100.00 m) <b>ser Elev.:</b> 98	3.98			w Ground Surfac	e	
Excava			on Length: 1						
						1			



Project No.: 170132

Client: Hindu Temple of Ottawa Carleton

Date: May 08, 2017

Excavation Method: Backhoe

Project: Terrain Analysis

Location: 4835 Bank Street, Ottawa, ON

Field Personnel: JA

	SUBSURFACE PROFILE	SA		DATA					
Depth	Soil Description	Elev./Depth (m)	Lithology	Sample Number	Shear S (ki 50	Strength Pa) 150	Water Cc           ▼         (%)           25         50           Liquid I           □         (%)           25         50	75 <sup>▼</sup> -imit	Water Level (Standpipe or Open Excavation)
0 <sup>ft</sup> m	Ground Surface	99.54 0.00							
	TOPSOIL         Silty loam, trace clay,dark brown, dry.         FILL         Silty sand, trace cobbles and gravel, light brown, dry.         Changing to dark brown sandy fill with trace boulders at approximately 0.8 m bgs.	<u>99.04</u> 0.50 <u>98.14</u> 1.40		7					
- - 6- -									
2 7	2								
- - - 8 -									
East	ting: 0454005	Northing	: 5017628	3		NOTES:			
	Datum: Top east arm of hydrant at south e undsurface Elevation: 99.54	entrance (1 <b>Top of Ri</b>				BGS	- Below Grou	nd Surfac	e
Exc	avation Width: N/M	Excavatio	on Lengt	<b>h:</b> N/M					



Project No.: 170132

Client: Hindu Temple of Ottawa Carleton

Date: May 08, 2017

Excavation Method: Backhoe

Project: Terrain Analysis

Location: 4835 Bank Street, Ottawa, ON

Field Personnel: JA

		SVI		<b>\ \ \ \</b>				
Depth	Soil Description	Elev./Depth (m)	Lithology	Sample Number	Shear (k 50	Strength Pa) 150	Water Content           ∨         (%)         ∨           25         50         75           Liquid Limit         □         (%)         □           25         50         75	Water Level (Standpipe or Open Excavation)
0 ft m 0 0	Ground Surface	98.78						
0 <u> </u>	TOPSOIL Silty loam some sand, dark brown, dry. FILL	0.00 98.63 0.15	1222	10	-			
	Sand, some silt, trace cobbles, brown, dry. Waste debris of metal and asphalt pieces at approximately 0.9 m bgs.							
2								at 1.53 m bgs
3-					_			
				9				
								Dry at 1.53 m bgs
_		97.28 1.50		11				Dry
5  - -	End of Test Pit Refusal at 1.5 m bgs over inferred bedrock.	1.50						_
6								-
2  7								_
-								-
8 -								_
Eastir	ng: 0453945	Northing	: 5017595	5		NOTES:		
Site D	atum: Top east arm of hydrant at south	entrance (*	100.00 m)			BGS	- Below Ground Surface	
	ndsurface Elevation: 98.78	Top of Ri						
	vation Width: N/M	Excavatio						



Project No.: 170132

Client: Hindu Temple of Ottawa Carleton

Date: May 08, 2017

Excavation Method: Backhoe

Project: Terrain Analysis

Location: 4835 Bank Street, Ottawa, ON

Field Personnel: JA

S	UBSURFACE PROFILE	SAI	MPLE D	ATA					
Depth	Soil Description	Elev./Depth (m)	Lithology	Sample Number	Shear : (k 50	Strength Pa) 150	▽ 25	r Content (%) ⊽ 50 75 iid Limit (%) □ 50 75	Water Level (Standpipe or Open Excavation)
0 ft m 0 0	Ground Surface	99.38 0.00							
	TOPSOIL Sandy loam, dark brown, dry.		2222						
 1  	FILL Sand, some gravel, cobbles, boulders, silty seam at 0.7 m bgs, brown, dry. Refusal at 0.8 m bgs over inferred bedrock.	<u>99.23</u> 0.15							
2_									
-				12	-				
		98.58 0.80		13					
	End of Test Pit								
_									
	<b>g:</b> 0454003	Northing				NOTES:			_
	atum: Top east arm of hydrant at south dsurface Elevation: 99.38	entrance (* Top of Ri				BG	S- Below G	round Surfac	e
Excava	ation Width: N/M	Excavation	on Length	n: N/M					



Project No.: 170132

Client: Hindu Temple of Ottawa Carleton

Date: May 08, 2017

Excavation Method: Backhoe

Project: Terrain Analysis

Location: 4835 Bank Street, Ottawa, ON

Field Personnel: JA

S	UBSURFACE PROFILE	SAI	MPLE DATA			Water Content	
Depth	Soil Description	Elev./Depth (m)	Lithology Sample Number	She	ar Strength (kPa) 150	Water Content           ▼         (%)         ▼           25         50         75           Liquid Limit         □         (%)         □           25         50         75	Water Level (Standpipe or Open Excavation)
0 ft m 0 0	Ground Surface	99.60					
	TOPSOIL Sandy loam, dark brown, dry. FILL	0.00 99.40 0.20					
- 1- - - - 2 -	FILL Sand, brown, trace metal debris, dry.	98.90					
- - - 3 - - - 1 - - - - - - - - - - - -	TILL Silty sand, trace clay, boulders, grey, organics including tree stump, roots, blcRefusal due to obstruction (tree n bg <sub>stump</sub> ).	0.70					
6	End of Test Pit	97.80 1.80					
-							
8-							_
Eastin	g: 0454051	lorthing	: 5017564		NOTES:		
	atum: Top east arm of hydrant at south er				BGS	S- Below Ground Surfa	се
Groun	dsurface Elevation: 99.60	op of Ri	i <b>ser Elev.:</b> 100.79				
Excav	ation Width: N/M E	Excavatio	on Length: N/M				



#### Symbols and Terms Used on Borehole and Test Pit Logs

The following explains the data presented in the borehole and test pit logs.

#### 1. Soil Description

The soil descriptions presented in this report are based on commonly accepted methods of classification and identification employed in geotechnical practice. Classification and identification of soil involves some judgement and LRL Associates Ltd. does not guarantee descriptions as exact, but infers accuracy to the extent that is common in current geotechnical practice. Boundaries between zones on the logs are often not distinct but transitional and were interpreted.

#### a. Proportion

The proportion of each constituent part, as defined by the grain size distribution, is denoted by the following terms:

Term	Proportions
"trace"	1% to 10%
"some"	10% to 20%
prefix	20% to 35%
(i.e. "sandy" silt)	
"and"	35% to 50%
(i.e. sand "and" gravel)	

#### b. Compactness and Consistency

The state of compactness of granular soils is defined on the basis of the Standard Penetration Test. See Section 2c for more details. The consistency of clayey or cohesive soils is based on the shear strength of the soil, as determined by field vane tests and by a visual and tactile assessment of the soil strength.

The state of compactness of granular soils is defined by the following terms:

State of Compactness Granular Soils	Standard Penetration Number "N"
Very loose	0 - 4
Loose	4 – 10
Compact or medium	10 - 30
Dense	30 - 50
Very dense	over - 50

The consistency of cohesive soils is defined by the following terms:

Consistency Cohesive Soils	Undrained Shear Strength (Cu) (kPa)
Very soft	under 10
Soft	10 - 25
Medium or firm	25 - 50
Stiff	50 - 100
Very stiff	100 - 200
Hard	over - 200

#### 2. Sample Data

#### a. Elevation depth

This is a reference to the geodesic elevation of the soil or to a benchmark of an arbitrary elevation at the location of the borehole or test pit. The depth of geological boundaries is measured from ground surface.

#### b. Type

Symbol	Туре	Letter Code
1	Auger	AU
X	Split spoon	SS
I	Shelby tube	ST
1	Rock Core	RC

#### c. Sample Number

Each sample taken from the borehole is numbered in the field as shown in this column.

LETTER CODE (as above) – Sample Number

#### d. Blows (N) or RQD

This column indicates the Standard Penetration Number (N) as per ASTM D-1586. This is used to determine the state of compactness of the soil sampled. It corresponds to the number of blows

required to drive 300 mm of the split spoon sampler using a 622 kg\*m/s<sup>2</sup> hammer falling freely from a height of 760 mm. For a 600 mm long split spoon, the blow counts are recorded for every 150 mm. The "N" index is obtained by adding the number of blows from the 2<sup>nd</sup> and 3<sup>rd</sup> count. Technical refusal indicates a number of blows greater than 50.

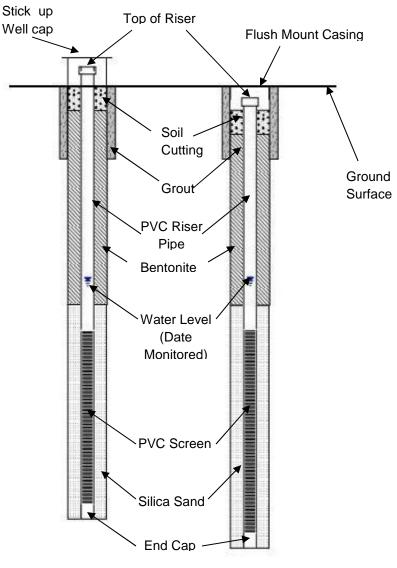
In the case of rock, this column presents the Rock Quality Designation (RQD). The RQD is calculated as the cumulative length of rock pieces recovered having lengths of 10 cm or more divided by the length of coring. The qualitative description of the bedrock based on RQD is given below.

Rock Quality Designation (RQD) (%)	Description of Rock Quality
0 –25	very poor
25 – 50	poor
50 – 75	fair
75 – 90	good
90 - 100	excellent

#### e. Recovery (%)

For soil samples this is the percentage of the recovered sample obtained versus the length sampled. In the case of rock, the percentage is the length of rock core recovered compared to the length of the drill run.

#### 3. General Monitoring Well Data



APPENDIX B

Laboratory Certificates of Analysis



RELIABLE.

300 - 2319 St. Laurent Blvd Ottawa, ON, K1G 4J8 1-800-749-1947 www.paracellabs.com

# Certificate of Analysis

### LRL Associates Ltd.

5430 Canotek Road Ottawa, ON K1J 9G2 Attn: Jessica Arthurs

Client PO: Project: 170132 Custody: 32310

Report Date: 15-May-2017 Order Date: 11-May-2017

Order #: 1719377

This Certificate of Analysis contains analytical data applicable to the following samples as submitted:

Paracel ID	Client ID
1719377-01	TP1
1719377-02	TP3
1719377-03	TP7

Approved By:



Dale Robertson, BSc Laboratory Director

Any use of these results implies your agreement that our total liability in connection with this work, however arising, shall be limited to the amount paid by you for this work, and that our employees or agents shall not under any circumstances be liable to you in connection with this work.



Order #: 1719377

Report Date: 15-May-2017 Order Date: 11-May-2017 Project Description: 170132

# Analysis Summary Table

Analysis	Method Reference/Description	Extraction Date Analysis Date
Ammonia, as N	EPA 351.2 - Auto Colour	12-May-17 12-May-17
Anions	EPA 300.1 - IC	12-May-17 12-May-17
Total Kjeldahl Nitrogen	EPA 351.2 - Auto Colour, digestion	12-May-17 15-May-17



Order #: 1719377

Report Date: 15-May-2017 Order Date: 11-May-2017

Project Description: 170132

	Client ID:	TP1	TP3	TP7	-
	Sample Date:	08-May-17	08-May-17	08-May-17	-
	Sample ID:	1719377-01	1719377-02	1719377-03	-
	MDL/Units	Water	Water	Water	-
General Inorganics					
Ammonia as N	0.01 mg/L	0.28	0.39	1.66	-
Total Kjeldahl Nitrogen	0.1 mg/L	78.1	65.3	131	-
Anions				-	
Nitrate as N	0.1 mg/L	<0.1	0.5	<0.1	-
Nitrite as N	0.05 mg/L	<0.05	<0.05	<0.05	-



Order #: 1719377

Report Date: 15-May-2017 Order Date: 11-May-2017

Project Description: 170132

# Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Anions Nitrate as N Nitrite as N	ND ND	0.1 0.05	mg/L mg/L						
General Inorganics Ammonia as N Total Kjeldahl Nitrogen	ND ND	0.01 0.1	mg/L mg/L						



Order #: 1719377

Report Date: 15-May-2017 Order Date: 11-May-2017

Project Description: 170132

# Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Anions Nitrate as N Nitrite as N	ND ND	0.1 0.05	mg/L mg/L	ND ND				20 20	
General Inorganics Ammonia as N Total Kjeldahl Nitrogen	0.021 1.50	0.01 0.1	mg/L mg/L	0.022 1.52			2.4 1.8	8 10	



Report Date: 15-May-2017 Order Date: 11-May-2017

Project Description: 170132

# Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Anions Nitrate as N	1.01	0.1	mg/L	ND	101	81-112			
Nitrite as N	1.02	0.05	mg/L	ND	102	76-117			
General Inorganics Ammonia as N Total Kjeldahl Nitrogen	0.280 1.91	0.01 0.1	mg/L mg/L	0.022	103 95.7	81-124 81-126			



### Login Qualifiers :

Samples received submerged in water, possibly melted ice. This condition can compromise sample integrity. *Applies to samples: TP1, TP3, TP7* 

### **Sample Data Revisions**

None

### Work Order Revisions / Comments:

None

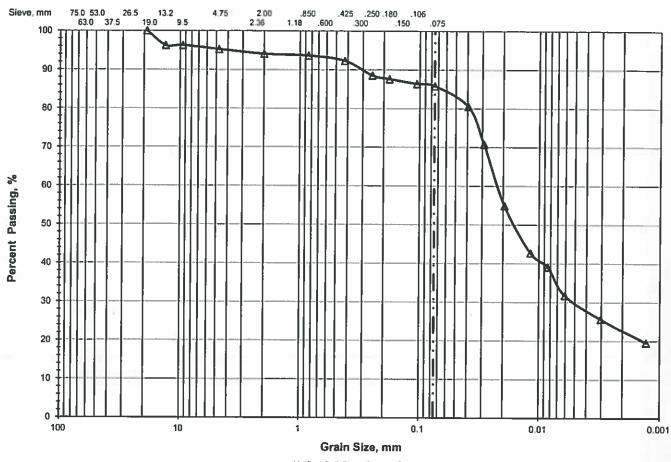
### **Other Report Notes:**

n/a: not applicable ND: Not Detected MDL: Method Detection Limit Source Result: Data used as source for matrix and duplicate samples %REC: Percent recovery. RPD: Relative percent difference. APPENDIX C

Sieve & Hydrometer Analysis

### LRL Associates Ltd. PARTICLE SIZE ANALYSIS

I D I	Client:	Lloyd Phillips & Associates Ltd.	File No.:	170132
	Project:	Hydrogeological Assessment & Terrain Analysis	Report No.:	1
GINEERING INGENIERIE	Location:	4835 Bank Street., Ottawa, ON.	Date:	May 8, 2017



Unified Soil Classification System

	> 75 mm	5 mm % GRAVEL			% SAND	)	% FINES		
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay	
Δ	0.0	0.0	4.8	1.2	1.8	6.5	63.8	22.0	
								-	

Δ

	Location	Sample	Depth, m	D <sub>60</sub>	D <sub>50</sub>	D <sub>30</sub>	D <sub>15</sub>	D <sub>10</sub>	Cc	Cu
△	TP-1	3	1.80 - 2.00	0.0226	0.0164	0.0052				
		_								
										-

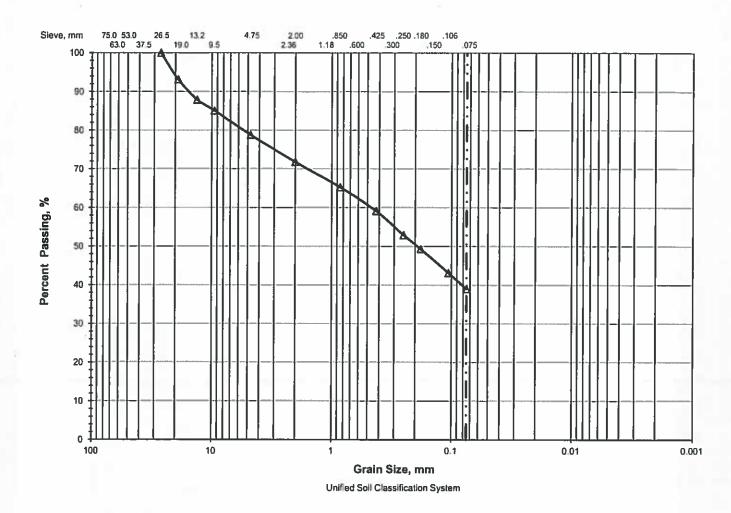


### LRL Associates Ltd.

# PARTICLE SIZE ANALYSIS

ASTM D 422 / LS-702

DI	Client:	Lloyd Phillips & Associates Ltd.	File No.:	170132
RJ	Project:	Hydrogeological Assessment & Terrain Analysis	Report No.:	2
NG I INGÊNIÊRIE	Location:	4835 Bank Street., Ottawa, ON.	Date:	May 8, 2017



ļ,	> 75 mm	% GR/	AVEL		% SAND		% FINES		
Ľ		Coarse	Fine	Coarse	Medium	Fine	Silt & Clay		
7	0.0	6.0	15.3	7.0	12.7	20.1	39.0		
Γ									
Г									
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Ē					X		· · · · · · · · · · · · · · · · · · ·		

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	Location	Sample	Depth, m	D <sub>60</sub>	D <sub>50</sub>	D <sub>30</sub>	D <sub>15</sub>	D <sub>10</sub>	Cc	Cu
△	TP3	6	1.4 - 1.6	0.4855	0.1932					
	_									

APPENDIX D Ontario Well Record Printouts

	314/50.		10 <i>7</i> .		4 .
UTM 1/18 2 415131712	OE			GROUN <b>P5</b> WATE	NOBRANCIZ
5R 501171711	10 N		ARIO	SEP - 9	
Elev. $ 4 ^{R}  0 3 0 6 $	The W		rillers Act, 1954	ONTARIO	
Basia 265 1 From +		Department		RESOURCES CO	
ConTV	Nater	-We	ll Recor	d	
County or Territorial District	Capliton			H Day	enter
County of Territorial District					
			in Village, Town or ( Address	ing Bridg	£
(day)	(month)	(year)			
Pipe and Casing	Record			Pumping Test	
Casing diameter(s)	••••••		Static level Pumping rate	10 ft	
Length(s)					
Type of screen Length of screen			Pumping level Duration of test		
			Duration of test		
Well Log				Water Record	
Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	No. of feet water rises	Kind of water (fresh, salty, or sulphur)
Bolders and sand	0	20	68	50	Irnh
Aand stone	20	68	•		
For what purpose(s) is the water t		1	Lo	cation of Well	2,5
Is water clear or cloudy?			In diagram below	show distances of	well from
Is well on upland, in valley, or on 1			road and lot line	Indicate north	by arrow.
	uplian	d	to <b>++</b> + -	. //	
Drilling firm		20	Barrett DR		
aly dien				7/	
	conte		5		
Address			× ×		
Licence Number 3. 2. 5	••••••		N N	k	
I certify that the f			Į	·// `	
statements of fact a		<u>~</u>	•	//	
Date 9 9 aug 57 Fr &	Longiture of License	e	606+		
			//		
Form 5			//		
				<b>C</b> 225, 94	1

$\frac{316/52}{UIM}   18 ^{Z}   4 5 3 7 6 0 ^{E}$ $\frac{15}{15}   5 6 117 5 6 0 ^{N}$ The Ontario Water Resc Elev: $  4   R   0 3 15$ WATER WEI Basin   2 5    0 BIE 7 GM County or District   0 BIE 7 GM Con. HRF Lot 21	LL REC Township, Village, 7	Act ORDES Fown or City	GLG0 JULY month	0 2 SION EESTER (2 year)
Casing and Screen Record		Pumpi	ing Test	
Inside diameter of casing Total length of casing Type of screen Length of screen Depth to top of screen Diameter of finished hole	Pumping level Duration of test Water clear or c Recommended	ate pumping loudy at end o pumping rate	G G 8 JHR of test T	G.P.M.
Well Log	with pump setti			r Record
$\begin{array}{c} \hline \\ \hline $	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water
Limestac	<i>K</i>	45	45	£
For what purpose(s) is the water to be used?		Location	n of Well	
For what purpose(s) is the water to be used?         Is well on upland, in valley, or on hillside?         Drilling or Boring Firm         Address         Licence Number         Name of Driller or Borer         Address         Date         Market         Signature of Licensee Drilling or Boring Contractor)         Form 7 10M-62-1152		m below sho	w distances of we ndicate north by	<b>ده</b>

- 167	316/52		ha		
IM 1/10 2 4 5 3 9 7 ATOLEAU Front 5 R 507171018		<b>K</b>		15 N	
<u> 3 </u> K <u> 3 0</u> +7 7 0 8	<u>, 0</u> ,	ONT	ARIO	GROUND WATER B	RANCH X
ev. 4 R 01330	The Wa	ater-well D	rillers Act, 1954	MAY 20 19	
sin 2151 6.	:	Department	of Mines		
	Water	-We	ll Reco	ONTARIO WA	TER
County or Territorial District	Carleton	: <b>Tow</b> ı	nship, Village, Town o	or City	entre
			in Village, Town or Address	City)	1 to Ala
			Address		
(day)	(month)	(year)			
Pipe and Casi	ng Record			Pumping Test	
Casing diameter(s)	2 ' ′		Static level	6	
Length(s)			Pumping rate	с 800 Л.р.	<u>+/</u>
Type of screen			Pumping level	25 Kt	
Length of screen	•••••••••••••••••••••••••••••••••••••••		Duration of test	2 hr	
Well Lo	g			Water Record	
Overburden and Bedrock Record	From ft.	To ft.	Depth (s) at which water (s) found	No. of feet water rises	Kind of wat (fresh, salt or sulphur)
Aand	0	7	60	54	Frish
Rolders and Sand	14	20			
	20				
Will Band stone	20	60			
		-			
		_			
		_			
·		-			
For what purpose(s) is the wate	r to be used?	1		Location of Well	6 -
		une		w show distances of	
Is water clear or cloudy?			-	ne. Indicate north	
Is well on upland, in valley, or o	n hillside? HIALO	nde		A Months	
Drilling firm Z. R. C.	on the				ſ
Address 2 B GA	e line R.	j		2	
Name of Driller	inc				
				<del>Z</del>	
Address		·····		71	
				or	
Licence Number 395					
Licence Number				608	
I certify that the statements of fac	e foregoing t are true.			605	an a statistical statistical and a statistical statistical statistical statistics and the statistics
I certify that the statements of fac	e foregoing t are true.	tt		· KA	C. S. Marcall, and Constant States and
I certify that the statements of fac Date	e foregoing t are true.	<del>1 / .</del>	£ A	Ę	
I certify that the statements of fac Date. 74 and 19/57	e foregoing t are true. & Caust	ee	Tahneton Pon	Ę	
I certify that the statements of fac Date	e foregoing t are true. & Caust	<del>1 /</del>	Tahneton Cor	Ę	

316/52 -UTM / 18 Z 41513101710 E GEDEND WATER BRANC 9 R 5101/16191910 N AUG 1 9 1957 Eley. QR 0133131 The Water-well Drillers Act, 1954 ONTARIO WATER **Department** of Mines RESOURCES COMMISSION Basin 1215 Con IV Water-Well Record 10+ 22 arleton oucestor ......Township, Village, Town or City..... County or Territorial District. n Village, Toyyn or Çity)..... (aty) (month) (year) **Pumping Test** Pipe and Casing Record Casing diameter (s) ..... Static level ..... Length(s) Pumping rate ..... Pumping level ...... Type of screen ...... nour Duration of test ...... Length of screen ..... Water Record Well Log Depth(s) at which water(s) Kind of water No. of feet From то (fresh, salty, or sulphur) Overburden and Bedrock Record ft. ft. water rises found 18 D 50 AF For what purpose(s) is the water to be used? Location of Well house he dage ily In diagram below show distances of well from road and lot line. Indicate north by arrow. Is well on upland, in valley, or on hillside?...... uth flockest uplando Drilling firm Address ..... > well ..... Name of Driller ..... (Iam/a Address ..... Licence Number 337 I certify that the foregoing statements of fact are true. Date Angs 1.5 Signature of Licensee CSS.58 Form 5

310/52	RCIS		DUND WATER	BRANCH	C
UTM 18 2 41233182610 E		GRO		15 Nº	21
tile trout	VIS		NOV 14	961	/ `
$\frac{15}{5} R = \frac{5}{5} \frac{1}{1} \frac{7}{7} \frac{3}{3} \frac{3}{2} \frac{9}{7} \frac{N}{16} $ Ontario Water Resolution With the State of the S				ATER	
Elever 12 R 1213   WATER WEL					
Basin 1215 CarletonT	'ownsh	ip, Village, To	wn or City S	10 10	1961
Con 4 R F Lot P. T. 22	ate co	`			year)
	lress	28 Cla	arence St	. Ottawa	2, Ont.
Casing and Screen Record			Pumping		
Inside diameter of casing 6 3/16	Sta	tic level	201		Ĥ
Total length of casing 211	Tes	st-pumping rat	.e 80		G.P. <b>M</b> .
Type of screen	Pu	mping level	70'		
Length of screen	Du	ration of test p	umping	1 hr.	~
Depth to top of screen	Wa	ater clear or clo	oudy at end of	test clea	H.
Diameter of finished hole 6"	Re	commended p	umping rate	80	G.P.M.
	wi	th pump settin	g of OU	· · · · · · · · · · · · · · · · · · ·	v ground surface
Well Log					Record Kind of water
Overburden and Bedrock Record		From ft.	To ft.	Depth(s) at which water(s) found	(fresh, salty, sulphur)
Till and Bilders gest. Grey hard lime a	ston	16		85	fresh
and sand stone		25	89		
SAM Grant TCN Participation and a second					
BOULDER TILL		O	16		
HARD GREY LIMESTONE		16	25		
5MADSTONE		25	89	85	FBESH
For what purpose(s) is the water to be used?			Location	of Well	
Co-operative		In diagram	m below show	distances of we	ll from
Is well on upland, in valley, or on hillside? Valley		road and	lot line. In	dicate north by	arrow.
Drilling or Boring Firm J. B. Dufresne Co. Ltd.				1	
Diffining of borning 1 minutes			150'	31	
Address Ottawa, Ontario.	and all and			2	
Audress	- 1993 - 1		P.J.M.	I	
Licence Number 194			·		
Name of Driller or Borer. W. Roy		(Miles)		+	
Address Hull			N		
Date Oct 10/6		n' Allower	vera 1		
(Signature of Licensed Drylling or Boring Contractor)	·	() curr			
Form 7 15M Sets 60-5930					
OWRC COPY				Cas	j.::3

$\frac{316}{52}$ TM $\frac{1}{10}$ $\frac{1}$			ground wath $15_{\rm AUG} m N_5^o$ ontario v	21.80 1961
lev. 4 R GI31310 WATER WE asin 215 1 Proce 7000 County or District 4 RP Lot 22	Township, Village, To	own or City 29 (day	RESOURCES CO GLOVE JUNE month	MMISSION ESTER 61 year)
Casing and Screen Record		Pumpin	ng Test	
Inside diameter of casing	Static level Test-pumping ra Pumping level Duration of test p Water clear or clo Recommended p with pump settin	te oumping oudy at end of oumping rate	8 1 / - f test 7	HR CEAR Y G.P.1
Well Log				r Record
Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	Kind of wate (fresh, salty sulphur)
LOAM	0	6		
GREY L OMESTAS	6	55	55	FOREST
For what purpose (s) is the water to be used? $f = \int \partial U S E$ Is well on upland, in valley, or on hillside? Drilling or Boring Firm $f = \int M E A E A E R$ Address Licence Number Name of Driller or Borer Date $f = \int M E A E A E R$	road and		of Well v distances of we dicate north by	
			11	

ip 316/Sa	and the second sec	- con	O WATER BRAN	
UTM /18 Z 41513181010 E			15 N	
SR 5101/17151319 N The Ontario Water Reso	Survey Commission	S Act	C 5 1962	
Elev. 4 R 2131/15 WATER WEI		4 U	NTARIO WATER	ON
Basin 25 County or District ARCET on Con. 4RF Lot 21 22 I	Fownship, Village, T	Cown or City <b>2</b> .	TULY	62
	Date completed			
	dress / 5/ C		-	·····
Casing and Screen Record	Static level		ng Test	
Inside diameter of casing				G.P.M.
				G.F.M.
Type of screen	Duration of test	pumping	1HR	
Depth to top of screen				,e
Diameter of finished hole	Recommended	pumping rate	5	G.P.M.
: :	with pump settin	ng of	<b>o</b> feet belo	ow ground surface
Well Log	· · · · · · · · · · · · · · · · · · ·	1		r Record
Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
CLAY	0	21		,
LIMESTON	21	46	46	F
Limeston	2/	46	46	F
LIMESTON	21	46	46	F
LIMESTON	21	46	46	£
LIMESTON	21	<i>U</i> 6	46	
LIMESTON	2/			
For what purpose(s) is the water to be used?	2/	Location	of Well	
For what purpose(s) is the water to be used?	0	Location m below show	of Well v distances of we djcpte north by	
For what purpose(s) is the water to be used?	0	Location m below show	v distances of we	
For what purpose(s) is the water to be used?	0	Location m below show	v distances of we	
For what purpose(s) is the water to be used? For what purpose(s) is the water to be used? Is well on upland, in valley, or on hillside? Drilling or Boring Firm	0	Location m below show	v distances of we	
For what purpose(s) is the water to be used? Howe Is well on upland, in valley, or on hillside? Drilling or Boring Firm MEAG HER Address	0	Location m below show	v distances of we	
For what purpose (s) is the water to be used? For what purpose (s) is the water to be used? Is well on upland, in valley, or on hillside? Drilling or Boring Firm MEAGHER Address Licence Number	0	Location m below show	v distances of we	
For what purpose(s) is the water to be used? Howe Is well on upland, in valley, or on hillside? Drilling or Boring Firm MEAG HER Address	0	Location m below show	v distances of we	
For what purpose(s) is the water to be used? For what purpose(s) is the water to be used? Howe Is well on upland, in valley, or on hillside? Drilling or Boring Firm MEAGHER Address Licence Number Name of Driller or Borer Address	0	Location m below show	v distances of we	
For what purpose (s) is the water to be used? For what purpose (s) is the water to be used? Is well on upland, in valley, or on hillside? Drilling or Boring Firm MEDGHER Address Licence Number Name of Driller or Borer Address	0	Location m below show	v distances of we	
For what purpose(s) is the water to be used? For what purpose(s) is the water to be used? Howe Is well on upland, in valley, or on hillside? Drilling or Boring Firm MEAGHER Address Licence Number Name of Driller or Borer Address	0	Location m below show	v distances of we	
For what purpose(s) is the water to be used? For what purpose(s) is the water to be used? Is well on upland, in valley, or on hillside? Drilling or Boring Firm MEACHER Address Licence Number. Name of Driller or Borer. Address Date	0	Location m below show	v distances of we	

asin 215 Department Water	• •	ce of Ontar	ord La	DEC - 6 19 BEOLOGICAL S PARTMENT M	MANCH MINES
C. I. T. T. I. Disting C. ARLIET AU	Town	or City)			
Date Completed	st of wen (excludi	e((/://m ng pump)	13.27.0.0	>	•••••
Pipe and Casing Record		Pı	umping Test		
Casing diameter (s) 5 Length (s) of casing (s) 6. Type of screen. Length of screen	Static level           Pumping level           Pumping rate           Duration of t	el. 20. S G/ rest. 30	PIY Min bowls to ground		
is well a gravel-wait type.	Water Record				
Kind (fresh or mineral) Eresh			to Water	Water	Water Ris
Kind (fresh or mineral)	а г.с. ст. 17		to water Horizon(s) 30' <u>60'</u> 19'	Water <u>9 0 0 0 0/</u> ., 	5- 30 5- 30 5- 74
Quality (hard, soft, contains iron, sulphur, etc.)	a r.c. m. n?		to water Horizon(s) 30' 60' 19'	g a o a/	5- 10 55 74'
Quality (hard, soft, contains iron, sulphur, etc.)4 Appearance (clear, cloudy, coloured)	а г.с. ст. 17	77. To .5ft. \$0'	Loc In diagram I well from r dicate north	ation of Well below show dist oad and lot lin by arrow.	5- 10 5'5 7'4'
Quality (hard, soft, contains iron, sulphur, etc.)	e r.c/	77. To .5ft. \$0'	Loc In diagram 1 well from r dicate north $\frac{10^{1}}{20^{1}}$	ation of Well below show dist oad and lot lin by arrow. $y_a \rightarrow - > \dots$	5 10 5 5 7 4
Quality (hard, soft, contains iron, sulphur, etc.)	e r.c/	77. To .5ft. \$0'	Loc In diagram 1 well from r dicate north $\frac{10^{1}}{20^{1}}$	ation of Well below show dist oad and lot lin by arrow. $y_a \rightarrow - > n$ .	5 10 5 5 7 4

R.F. 316/52 UTRANSEZ 4154101610 E			15 N	· 2248
Elev. 4 R O3110 WATER WEI Basinty or District CARLETON Con. 5 R.P. Lot 21	LL REC	ORD	e TANCO SA 12500773 COMO GLOUC 4	ASTER 1966
		Q12	R. R#6 di	year) TAWA, ONT
Casing and Screen Record	1	-	ng Test	
Inside diameter of casing 6 1/4 "	Static level			
Total length of casing $21'3''$				G.P.M.
Type of screen				
Length of screen				
Depth to top of screen			of test $CLEA$	•
Diameter of finished hole 6	-			G.P.M.
	with pump settir	ng of 7	<b>O</b> feet belo	w ground surface
Well Log		1		r Record
Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
TOP Soil	O			Fresh
SANDSTONE	la	98	80 -97	1723/3
For what purpose(s) is the water to be used? $hd U.S Try$		Location	of Well	
	0		v distances of well	
Is well on upland, in valley, or on hillside? $Up/a nd$	road and	lot line. In	dicate north by	arrow.
Drilling or Boring Firm MCLEAN WATER		N_	101	
SUPPLY LTD. Address 1532 RAVEN AVE		7	1 20	
OTTAWA, ONT.		E/a	1- Rd	
Licence Number 2154	I		<b>T</b>	
Name of Driller or Borer LOUIS BULTOWS	1	< i	10 + 1 50	
Address			•	
Date APR. 26-1966 a. J. Schart				
(Signature of Licensed Drilling or Boring Contractor)				
Form 7 15M-60-4138				
OWRC COPY			<b>C</b> 5S.	58

UTM 182 415 3960 E 5 R 50117 B 6 QHP Ontario Water Resources Commission Act Elev. 4 R 0300 WATER WELL RECORDOURCES COMMER Basin 2 5 1 P Lot 2 Date completed 19 Nov. 1466 Con. 5 1 P Lot 2 Date completed 19 Nov. 1466 dress RR#3 Netcuefe Out dress RR#3 Netcuefe Out Casing and Screen Record Pumping Test Inside diameter of casing 5" Static level 15
Elev. 4 R 0300 WATER WATER WELL RECORD Basin 25 1/17 Lot 21 Date completed 19 Nov. 166 (day month year) Casing and Screen Record Local
Lict:       Image: State of State o
Basin 1/2 55 first ict       Image: Condition of City       Image: City
Con. 5 11 Lot 21 Date completed 19 Nov. 1966 (day month year) dress RR#3 Netcalfe Out Casing and Screen RecordPumping Test
dress RR#3 metcalfe Out Casing and Screen Record _Pumping Test
Casing and Screen RecordPumping Test
Type of screen     Pumping level     4.5       Length of screen     Duration of test pumping     1
Depth to top of screen Diameter of finished hole 5 " Recommended pumping rate G.P.M
with pump setting of 75' feet below ground surface
Well Log Water Record
Overburden and Bedrock RecordFrom ft.To ft.Depth(s) at which water(s) foundKind of water (fresh, salty, sulphur)
sand fill 0 4 83 fresh
sandstone 4 85
For what purpose(s) is the water to be used?
old house In diagram below show distances of well from
Is well on upland, in valley, or on hillside? upland
Drilling or Boring Firm Capital Water
Supply 1
Address 14 ashford War 3 Ottawa 6
ALC ALL ALL ALL ALL ALL ALL ALL ALL ALL
Licence Number $2/3$ % Name of Driller or Borer $\mathcal{H}$ Scott $\mathcal{H}$
Address 60'
Date, Nov 19, 1966 Halter Lawancah (Signature of Licensed Drilling or Boring Contractor)
(Signature of Licensed Drilling or Boring Contractor)
Form 7 15M-60-4138
OWRC COPY CS5.58

316/59	RESOURCE			WATER	RESOURCES
UTM $18^{2}$ 4541/1/10 E					ISION 225
$\frac{5 R}{6 N} = \frac{5 6 1 6 9 12 6 N}{5 R}$ Ontario Water R	o vores	<b>C</b>	• •		i 9 1965
Eley. 4 R 0131413 WATER WE	cesources				
					COMMISSION
Basinty or District CurleTon Con. V BE Lot 23	Towns	hip, Village, T			
$\operatorname{Con}_{\operatorname{con}} \mathcal{F}  \mathcal{F}$			(day	month	
	ldres	s Box 2	54 KI	R6,011a	wy
Casing and Screen Record			Pumpin	-	
Inside diameter of casing 5"		tic level			
Total length of casing 10					G.P.M.
Type of screen	1	• • • •		-	
Length of screen				,	5
Depth to top of screen					vdy
Diameter of finished hole				. 4	
	wi	th pump settin	ig of 75	feet belo	w ground surface
Well Log					r Record
Overburden and Bedrock Record		From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
10 am		0	2		
Hard Sandstone		2	65	1. 0.	7 (
Red Granite		65	79	60 - 79	fresly
				•	
			· · · ·		
For what purpose(s) is the water to be used?		In diamon	Location		11 fuerre
house hills'de				distances of well licate north by	
Is well on upland, in valley, or on hillside? hillside			11		
Drilling or Boring Firm			R	oad between	C17
Mchean Water Supply LTC/ Address 1532 Raven Ave			6	01 201 01	
OTTawa					
Licence Number /328		1			
Name of Driller or Borer H. Sq Ily		M	-	- 0.55 Miles	
Address				• • •	15
		- OTTAW			¥
CAM Lean			<u>- 11</u> U	1Y # 31	
(Signature of Licensed Drilling or Boring Contractor)					
Form 7 15M-60-4138				CS5.8	4
OWRC COPY	190 . 2			- × • . *	
t	•				

U.T. $18453890$ $c_{e_{e_{e_{e_{e_{e_{e_{e_{e_{e_{e_{e_{e_$	LL .Towns	REC	ORD	month	year)
Casing and Screen Record			Pumpin	a Test	
Inside diameter of casing 6"	Sta	tic level			
Total length of casing 15 •					G.P.M.
Type of screennil					
Length of screen					
Depth to top of screen $n/a$					
Diameter of finished hole 6 <sup>m</sup>				_	G.P.M.
	1	-			w ground surface
Well Log			5 01	1	r Record
Overburden and Bedrock Record		From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
Closely packed Boulders		0 '	13 *	Touna	sulphur)
Very Abrassive Sandstone		13 •	63 '	60 '	fresh
For what purpose(s) is the water to be used? <b>Trailer Sales Depot</b> Is well on upland, in valley, or on hillside? <b>Valley</b> Drilling or Boring Firm <b>Blair Phillips Drilling Co. Ltd.,</b> Address 1119 Felaise Road, Ottawa 5, Ontario.	G		lot line. Ind	distances of well cate north by NORT	arrow.
Licence Number 2779 Name of Driller or Borer J. Moore Address Kars, Ontario Date 6 December 1968 (Signature of Licensed Drilling or Boring Contractor) Form 7 OWRC COPY		} <sup>=</sup>	60	, <u>→ ↑10' LO T</u>	LINE

Water management in (	Ontario 1. PRINT ONLY IN S	PACES PROVIDED	11	151	0717 J <del>.</del> 615	5002	15		22 2
		TOWNSHIP, BOROUGH, CITY		3	СОN., ВІОСК, 1 9	RACT, SURVEY	FTC.	-	LOT 25.
(ARL		21	11		m. T. D. I. A.	.	DATE COMPLET		18-53
		ING C	HIGHW,	AY K	RC. BASIN CO				
1 2	10 12								
	MOST	OG OF OVERBURDEN	-		GENERAL DESC			DEPTH	- FEET
GENERAL COLOUR	COMMON MATERIAL							PROM	
BRANIN	RURBLE	(FILLED IN	LOT 7	OHGHWI	Y GRAD	F)		0	6
15/1000/					/			,	
GREY	LIMESTON	Æ						6	52
			1 1 1 1 1		1 1 1	11 1 1			
31 /000	aana 11 laa	53215					└┛└┶┵┵ ╷│┤╷╷╷		
32 10	14 15 21	51 CASING & C			SIZE(S) OF OPE (SLOT NO.)	NING 3	65 1-33 DIAMETER	34-38	75 LENGTH
	ER RECORD				(SEOT NO.)				
WATER FOUND	KIND OF WATER	INSHOE		DEPTH - FEET		D TYPE		INCHES	41-
AT - FEET		INSIDE DIAM. MATERIAL INCHES OG 10-11 1 XSTEEL 1		DEPTH - FEET OM TO		D TYPE	DE	INCHES	41-
250 <sup>10-13</sup> 1 15-18	FRESH 3 SULPHUR SALTY 4 MINERAL FRESH 3 SULPHUR	INSIDE DIAM MATERIAL INCLES MATERIAL 2010-111 1 OFFEEL 1 2010 GALVANIZED 3 CONCRETE	WALL D THICKNESS	рертн – FEET ом то 00,20,43-16		GING 8		EPTH TO TOP OF SCREEN	41- FEET
250 <sup>10-13</sup> 1 15-18 1 2 20-23	FRESH 3 SULPHUR SALTY 4 MINERAL	INSIDE DIAM. INCHES MATERIAL INCHES 10-11 2 GALVANIZED	WALL D THICKNESS FR	рертн – FEET ом то 00,20,43-16	MATERIAL AN O O DEPTH SET AT FROM	GING 8		NG	
250 10-13 1 15-18 1 2 20-23 1 2 2 2 2 2 2 2 2 2 2 2 2 2	GRESH         3         SULPHUR         14           SALTY         4         MINERAL           FRESH         3         SULPHUR         19           SALTY         4         MINERAL         19           SALTY         4         MINERAL         24           SALTY         4         MINERAL         24           SALTY         4         MINERAL         24	INSIDE     INSID	WALL D THICKNESS FR	DEPTH - FEET OM TO DO 23316 DO 23316 20-23 CO 5 2	MATERIAL AN U G1 PLUG DEPTH SET AT FROM 10-13	GING 8 FEET MAT 14-17	SEALI	NG	
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10-13 15-18 15-18 1 20-23 1 20-23 1 2 20-23 1 2 20-23 1 2 2 20-23 1 2 2 2 2 2 2 2 2 2 2 2 2 2	RESH         3         SULPHUR         14           SALTY         4         MINERAL           FRESH         3         SULPHUR         19           SALTY         4         MINERAL         19           FRESH         3         SULPHUR         24           SALTY         4         MINERAL         25           SALTY         4         MINERAL         24           SALTY         4         MINERAL         25           SALTY         4         MINERAL         3           FRESH         3         SULPHUR         34           SALTY         4         MINERAL         35	Insuré Dint.         MATERIAL           MORES         0-11         1           VICAES         21         CALVANIZED           3 □         CONCRETE         4           17-18         1         STEEL           10-11         1         STEEL         1           17-18         1         STEEL         1           2         GALVANIZED         3         CONCRETE           4         OPEN HOLE         3         CONCRETE           4         OPEN HOLE         3         CONCRETE           4         OPEN HOLE         3         CONCRETE	WALL THICKNESS     D       2     /88     C       3	DEPTH - FEET OM TO DO 23316 DO 23316 20-23 CO 5 2	Waterial and Solution           61         PLUG           DEPTH SET AT           FROM           10-13           18-21           26-29	GING 8 FEET MAT 14-17 22-25 30-33 80	E SEALI	NG R	
25.26 20-23 15-18 20-23 20-23 21 20-23 10 21 20-23 10 21 20-23 10 21 20 20-23 10 21 20 20 20 20 20 20 20 20 20 20	RESH         3         SULPHUR         14           SALTY         4         MINERAL           FRESH         3         SULPHUR         19           SALTY         4         MINERAL         19           FRESH         3         SULPHUR         24           SALTY         4         MINERAL         25           SALTY         4         MINERAL         24           SALTY         4         MINERAL         25           SALTY         4         MINERAL         3           FRESH         3         SULPHUR         34           SALTY         4         MINERAL         35	INSHOE         MATERIAL           BCHES         MATERIAL           BCHES         2           GALVANIZED         3           CONCRETE         4           JOPEN HOLE         1           17-18         1           STEEL         1           2         GALVANIZED           3         CONCRETE           4         OPEN HOLE           10         STEEL           2         GALVANIZED           3         CONCRETE           4         OPEN HOLE           24-25         5           80         3           CONCRETE         4           0         OPEN HOLE           24-25         5           80         3           CONCRETE         4           0         OPEN HOLE           11-14         DURATO           15         15	WALL THICKNESS     D       2     /88     C       3	DEPTH         - FEET           0M         TO           00,220,6         20-23           00,522         27-30	MATERIAL AN O DEPTH SET AT FROM 10-13 16-21 26-29 LOCA	GING 8 FEET MAT 14-17 22-25 30-33 80 TION O	F WELL	NG R	41- FEET RECOR CEMENT GRO D PACKER, E
10-13 15-16 1 20-23 20-23 1 20-24 20-25 1 20-25 1 20-25 1 20-25 1 20-25 1 20-25 1 1 20-25 1 1 20-25 1 1 20-25 1 1 1 20-25 1 1 1 1 1 1 1 1 1 1 1 1 1	RESH         3         SULPHUR         14           SALTY         4         MINERAL           FRESH         3         SULPHUR         19           SALTY         4         MINERAL         19           SALTY         4         MINERAL         24           FRESH         3         SULPHUR         24           SALTY         4         MINERAL         25           SALTY         4         MINERAL         35           SALTY         4         MINERAL         36           FRESH         3         SULPHUR         36           SALTY         4         MINERAL         36           FRESH         3         SULPHUR         36           SALTY         4         MINERAL         36           FRESH         3         SULPHUR         36           SALTY         4         MINERAL         36           THOD         10         PUMPING RI         36           C         BAILER         36         36           WATER LEVEL         25         WATER         25	Insure         Insure         MATERIAL           Insure         Insure         Insure         Insure	WALL         D           THICKNESS         FR           INCHES         FR           2         //88           2         //88           3         5           36         5           56         17-18           DOD         17-18           DOD         17-18           DOD         17-18           CECOVERY         SCA	DEPTH         - FEET           OM         TO           OO(20)         20-23           OO(52)         27-30	Waterial and Solution           61         PLUG           DEPTH SET AT           FROM           10-13           18-21           26-29	GING 8 FEET MAT 14-17 22-25 30-33 80 TION O W DISTANCES 0	F WELL	NG R	41- FEET RECOR CEMENT GRO D PACKER, E
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10-13 1 15-16 1 2 20-23 1 20-23 1 2 25-28 1 2 2 25-28 1 2 2 2 2 2 2 2 2 2 2 2 2 2	FRESH         3         SULPHUR         14           SALTY         4         MINERAL         19           SALTY         4         MINERAL         19           SALTY         4         MINERAL         19           SALTY         4         MINERAL         14           SALTY         4         MINERAL         15           SALTY         4         MINERAL         14           SALTY         4         MINERAL         16           Y         BAILER         000         10           WATER         EVEL         15         MINU           0         14         15         MINU	Insure Diam.         MATERIAL MATERIAL           BORDS         0-11         1         STEEL         1           20         24.0VANIZED         3         CONCRETE         4         0.0PN HOLE           17-18         1         STEEL         1         2         GALVANIZED           3         CONCRETE         4         0.0PN HOLE         1         3         CONCRETE           4         0.0PN HOLE         2         3         CONCRETE         4         0.0PN HOLE           80         GALVANIZED         3         CONCRETE         4         0.0PN HOLE         1           11-14         DURATEM EF         3         CONCRETE         4         0.0PN HOLE         1           100         GPM         0.0EN         1         1         1         1         1           0         GPM         0.0EN         1         1         0.0EN         1         0.0EN         1         0.0EN           100         GPM         1         1         1         0.0EN         1	WALL         D           THICKNESS         FR           INCHESS         FR <td>DEPTH         - FEET           OM         TO           OO(20)         20-23           OO(52)         27-30</td> <td>MATERIAL AN O DEPTH SET AT - FROM 10-13 18-21 26-29 LOCA</td> <td>GING 8 FEET MAT TO 14-17 22-25 30-33 80 TION O BUD ARROW</td> <td>F WELL</td> <td>NG R</td> <td>41- FEET RECOR CEMENT GRO D PACKER, E</td>	DEPTH         - FEET           OM         TO           OO(20)         20-23           OO(52)         27-30	MATERIAL AN O DEPTH SET AT - FROM 10-13 18-21 26-29 LOCA	GING 8 FEET MAT TO 14-17 22-25 30-33 80 TION O BUD ARROW	F WELL	NG R	41- FEET RECOR CEMENT GRO D PACKER, E
10-13 1 2 15-16 1 2 20-23 1 2 20-23 1 2 2 2 2 2 2 2 2 2 2 2 2 2	FRESH         3         SULPHUR         14           SALTY         4         MINERAL         19           SALTY         4         MINERAL         19           SALTY         4         MINERAL         19           SALTY         4         MINERAL         14           SALTY         4         MINERAL         15           SALTY         4         MINERAL         14           SALTY         4         MINERAL         15           SALTY         4         MINERAL         16           SALTY         4         MINERAL         17           SALTY         4         MINERAL         16           SALTY         4         MINERAL         17           SALTY         4         MINERAL         16           SALTY         4         MINERAL         17           SALTY         4         MINERAL         16           THOD         10         PUMPING         17           2         BAILER         000         10           MATER         EVEL         000         12           36-41         PUMPING         15         MIND           JAB-41 <td>INSIDE         MATERIAL           DIAM         MATERIAL           DIAM         MATERIAL           DIAM         STEL           DIAM         CALVANIZED           CONCRETE         4           OPEN HOLE         1           10-11         STEEL           10-11         CONCRETE           4         OPEN HOLE           10-11         CONCRETE           4         OPEN HOLE           24-22         CONCRETE           4         OPEN HOLE           24-25         CONCRETE           4         OPEN HOLE           24-25         CONCRETE           4         OPEN HOLE           10-14         DUBATER           11-14         DUBATER           10-14         DUBATER           10-14         DUBATER           10-14         DUBATER           10-14         DUBATER           10-14         D</td> <td>WALL THICKNES         D           2         //8/8         C           1         //8/8         C           2         //8/8         C           2         //8/8         C           3        </td> <td>DEPTH         - FEET           OM         TO           OO(20)         20-23           OO(52)         27-30</td> <td>MATERIAL AN O DEPTH SET AT - FROM 10-13 18-21 26-29 LOCA</td> <td>GING 8 FEET MAT TO 14-17 22-25 30-33 80 TION O BUD ARROW</td> <td>F WELL</td> <td>NG R</td> <td>41- FEET RECOR CEMENT GRO D PACKER, E</td>	INSIDE         MATERIAL           DIAM         MATERIAL           DIAM         MATERIAL           DIAM         STEL           DIAM         CALVANIZED           CONCRETE         4           OPEN HOLE         1           10-11         STEEL           10-11         CONCRETE           4         OPEN HOLE           10-11         CONCRETE           4         OPEN HOLE           24-22         CONCRETE           4         OPEN HOLE           24-25         CONCRETE           4         OPEN HOLE           24-25         CONCRETE           4         OPEN HOLE           10-14         DUBATER           11-14         DUBATER           10-14         DUBATER           10-14         DUBATER           10-14         DUBATER           10-14         DUBATER           10-14         D	WALL THICKNES         D           2         //8/8         C           1         //8/8         C           2         //8/8         C           2         //8/8         C           3	DEPTH         - FEET           OM         TO           OO(20)         20-23           OO(52)         27-30	MATERIAL AN O DEPTH SET AT - FROM 10-13 18-21 26-29 LOCA	GING 8 FEET MAT TO 14-17 22-25 30-33 80 TION O BUD ARROW	F WELL	NG R	41- FEET RECOR CEMENT GRO D PACKER, E
10-13 1 2 15-18 1 2 20-23 1 2 20-23 1 2 2 20-23 1 2 2 2 2 2 2 2 2 2 2 2 2 2	RESH         3         SULPHUR         14           SALTY         4         MINERAL           FRESH         3         SULPHUR           SALTY         4         MINERAL           THOD         10         PUMPING R           2         BAILER         00           4         22-24         15           38-41         PUMP INTA           36-41         PUMP INTA           SPM         SETTING	Insure         Insure         MATERIAL           BORES         Goldent         MATERIAL           BORES         Goldent         STEEL         1           2010         CONCRETE         4         OPEN HOLE           1011         1         STEEL         1           2011         1         STEEL         1           2011         1         STEEL         1           2012         GALVANIZED         3         CONCRETE           40         OPEN HOLE         2         GALVANIZED           30         CONCRETE         4         OPEN HOLE           40         OPEN HOLE         2         GALVANIZED           30         CONCRETE         4         OPEN HOLE           40         OPEN HOLE         1         10           11-14         DUPARENT         10         10           11-14         DUPARENT         10         10           11-14         DUPARENT         45         10           11-14         DUPARENT         45         10           11-14         DUPARENT         45         10         7           11-14         DUPARENT         45         10	WALL THICKNES         D           2         //8/8         C           1         //8/8         C           2         //8/8         C           2         //8/8         C           3	DEPTH         - FEET           OM         TO           OO(20)         20-23           OO(52)         27-30	MATERIAL AN O DEPTH SET AT - FROM 10-13 18-21 26-29 LOCA	GING 8 FEET MAT TO 14-17 22-25 30-33 80 TION O BUD ARROW	F WELL	NG R	41- FEET RECOR CEMENT GRO D PACKER, E
10-13 1 2 20-23 1 20-23 1 2 20-23 1 2 2 2 2 2 2 2 2 2 2 2 2 2	FRESH     3     SULPHUR     14       SALTY     4     MINERAL       FRESH     3     SULPHUR       2     BAILER     Ø       WATER LEVEL     25       WATER LEVEL     25       WATER LEVEL     7       JUPHPING     15       10     FUMPING       11     SCALT       SALTY     9000000000000000000000000000000000000	Insure         Insure         MATERIAL           BORES         Goldent         MATERIAL           BORES         Goldent         STEEL         1           2010         CONCRETE         4         OPEN HOLE           1011         1         STEEL         1           2011         1         STEEL         1           2011         1         STEEL         1           2012         GALVANIZED         3         CONCRETE           40         OPEN HOLE         2         GALVANIZED           30         CONCRETE         4         OPEN HOLE           40         OPEN HOLE         2         GALVANIZED           30         CONCRETE         4         OPEN HOLE           40         OPEN HOLE         1         10           11-14         DUPARENT         10         10           11-14         DUPARENT         10         10           11-14         DUPARENT         45         10           11-14         DUPARENT         45         10           11-14         DUPARENT         45         10         7           11-14         DUPARENT         45         10	WALL         D           THICKNES         FR           JACHES         FR           2         //88           2         //88           2         //88           2         0           2         0           2         0           2         0           2         0           2         0           2         0           2         0           2         0           2         0           2         0           2         0           2         0           3         0           3         3           3         5           9         0           10         7           10         7           10         7           10         5           10         6           10         5           10         5           10         5	DEPTH         - FEET           OM         TO           OO(20)         20-23           OO(52)         27-30	MATERIAL AN O DEPTH SET AT - FROM 10-13 18-21 26-29 LOCA	GING 8 FEET MAT TO 14-17 22-25 30-33 80 TION O BUD ARROW	F WELL	NG R	41- FEET RECOR CEMENT GRO D PACKER, E
10-13 1 2 15-18 1 2 20-23 1 2 20-23 1 2 2 20-23 1 2 2 2 2 2 2 2 2 2 2 2 2 2	SRESH         3         SULPHUR         14           SALTY         4         MINERAL           SRESH         3         SULPHUR         19           SALTY         4         MINERAL           FRESH         3         SULPHUR         19           SALTY         4         MINERAL           FRESH         3         SULPHUR         24           SALTY         4         MINERAL         15           FRESH         3         SULPHUR         24           SALTY         4         MINERAL         10           FRESH         3         SULPHUR         24           SALTY         4         MINERAL         10           FRESH         3         SULPHUR         24           SALTY         4         MINERAL         10           THOD         10         PUMPING         10           2         BAILER         000         25           WATER         EVEL         25         WAT           SUPHUMPING         15         MINUT         2000           3         GPM.         PUMPING         11           JINP TYPE         RECOMMENT         SETTING	INSIDE         MATERIAL           DIAM         MATERIAL           DIAM         STEL           SCONCRETE         Material           DIAM         STEL           SCONCRETE         STEL           STEL         STEL	WALL THICKNES         D           2         //8/8         C           3	DEPTH         - FEET           OM         TO           OO(20)         20-23           OO(52)         27-30	MATERIAL AN O DEPTH SET AT - FROM 10-13 18-21 26-29 LOCA	GING 8 FEET MAT TO 14-17 22-25 30-33 80 TION O BUD ARROW	F WELL	NG R	41- FEET RECOR CEMENT GRO D PACKER, E
10-13 1 2 20-23 1 20-23 1 2 20-23 1 2 2 20-23 1 2 2 20-23 1 2 2 2 2 2 2 2 2 2 2 2 2 2	FRESH       3       SULPHUR       14         SALTY       4       MINERAL         FRESH       3       SULPHUR       19         SALTY       4       MINERAL         FRESH       3       SULPHUR       14         SALTY       4       MINERAL       15         MINER       6       6       15         MINER       6       7       7         JOS       7       7       7         SHIPHUMP	Insure Diam.         MATERIAL BORE           Diam.         MATERIAL BORE           Diam.         MATERIAL BORE           Diam.         STEEL           Diam.         STEEL <td>WALL THICKNES         D           2         //8/8         C           3        </td> <td>DEPTH - FEET OM TO DO206 20-23 DO52 27-30 IN I LOT</td> <td>MATERIAL AN MATERIAL AN 61 PLUG DEPTH SET AT- FROM 10-13 16-21 26-29 LOCA DIAGRAM BELOW SHA LINE. INDICATE NG</td> <td>GING 8 FEET MAT TO 14-17 22-25 30-33 80 TION O BUD ARROW</td> <td>F WELL</td> <td>NG R</td> <td>41- FEET RECOR CEMENT GRO D PACKER, E</td>	WALL THICKNES         D           2         //8/8         C           3	DEPTH - FEET OM TO DO206 20-23 DO52 27-30 IN I LOT	MATERIAL AN MATERIAL AN 61 PLUG DEPTH SET AT- FROM 10-13 16-21 26-29 LOCA DIAGRAM BELOW SHA LINE. INDICATE NG	GING 8 FEET MAT TO 14-17 22-25 30-33 80 TION O BUD ARROW	F WELL	NG R	41- FEET RECOR CEMENT GRO D PACKER, E
10-13 1 2 20-23 1 20-23 1 2 20-23 1 2 2 20-23 1 2 2 2 2 2 2 2 2 2 2 2 2 2	PRESH       3       SULPHUR       14         SALTY       4       MINERAL         FRESH       3       SULPHUR         SALTY       4       MINERAL         FRESH       3       SULPHUR         SALTY       4       MINERAL         FRESH       3       SULPHUR         SALTY       4       MINERAL         SALTY       5       MINERAL         SALTY       5       MINERAL         <	Insure         Insure           Insure         MATERIAL           Insure         MATERIAL           Insure         MATERIAL           Insure         Stell           Insure         Stell <td>VILL THICKNES INCHES FR. VILL THICKNES FR. VILL FR. FR. VILL FR. FR. VILL FR. FR. VILL FR. FR. FR. FR. FR. FR. FR. FR.</td> <td>DEPTH - FEET OM TO DO206 20-23 DO52 27-30 IN I LOT</td> <td>AATERIAL AN MATERIAL AN 61 PLUG DEPTH SET AT- FROM 10-13 10-13 10-13 10-24 26-29 LOCA DIAGRAM BELOW SHA LINE. INDICATE NG</td> <td>GING 8 FEET MAT TO 14-17 22-25 30-33 60 TION O BUD ARROW</td> <td>F WELL</td> <td>NG R</td> <td>41- FEET RECOR CEMENT GRO D PACKER, E</td>	VILL THICKNES INCHES FR. VILL THICKNES FR. VILL FR. FR. VILL FR. FR. VILL FR. FR. VILL FR. FR. FR. FR. FR. FR. FR. FR.	DEPTH - FEET OM TO DO206 20-23 DO52 27-30 IN I LOT	AATERIAL AN MATERIAL AN 61 PLUG DEPTH SET AT- FROM 10-13 10-13 10-13 10-24 26-29 LOCA DIAGRAM BELOW SHA LINE. INDICATE NG	GING 8 FEET MAT TO 14-17 22-25 30-33 60 TION O BUD ARROW	F WELL	NG R	41- FEET RECOR CEMENT GRO D PACKER, E
10-13 1 2 15-18 1 2 20-23 1 2 20-23 1 2 2 20-23 1 2 2 2 2 2 2 2 2 2 2 2 2 2	PRESH       3       SULPHUR       14         SALTY       4       MINERAL         FRESH       3       SULPHUR         SALTY       4       MINERAL         FRESH       3       SULPHUR         SALTY       4       MINERAL         FRESH       3       SULPHUR         SALTY       4       MINERAL         SALTY       5       MINERAL         SALTY       5       MINERAL         <	INSIDE         MATERIAL           DIAM         MATERIAL           DIAM         MATERIAL           DIAM         MATERIAL           DIAM         STEEL           DIAM         CONCRETE           DIAM	WALL         D           THICKNES         FR           INCHES         FR           INTS         MINS           INTS         MINS           INTS         MINS           INTS         MINS           INTS         FEET           INTS         GO TEST           INTS         GFM.           UFFICIENT SUPPLY         GR           INDITIONING         MOITIONING	DEPTH - FEET OM TO DO206 20-23 DO52 27-30 IN I LOT	AATERIAL AN MATERIAL AN 61 PLUG DEPTH SET AT- FROM 10-13 10-13 10-13 10-24 26-29 LOCA DIAGRAM BELOW SHA LINE. INDICATE NG	GING 8 FEET MAT TO 14-17 22-25 30-33 60 TION O BUD ARROW	F WELL	NG R	41- FEET RECOR
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10-13 1 2 20-23 1 2 20-23 1 2 2 20-23 1 2 2 2 2 2 2 2 2 2 2 2 2 2	PRESH     3     SULPHUR     14       SALTY     4     MINERAL       SALTY     5     GPM.       SECOMMENT     5     SETING <td>Insure Diam.         MATERIAL MATERIAL           Insure Biological Biologicological Biological Biological Biologicologicological Biological</td> <td>WALL THICKNES         D           2         //8/8         C           3        </td> <td>DEPTH - FEET OM TO DO20 20-23 20052 27-30 IN I LOT LOT LOT DRILLERS REMAN</td> <td>AATERIAL AN AATERIAL AN 61 PLUG DEPTH SET AT- FROM 10-13 18-21 26-29 LOCA DIAGRAM BELOW SHO LINE. INDICATE VC 3 25 26 26 26 26 26 26 26 26 26 26</td> <td>GING 8 -FEET MA1 14-17 22-25 30-33 80 TION O W DISTANCES O LO 7 2 2 A 23 CO 7 2 2 A 23 CO 7 2 2 A 2 CO 7 2 2 CO 7 2 CO 7</td> <td>F WELL FRIAL AND TY F WELL FROM</td> <td>NG R (PE LEA</td> <td></td>	Insure Diam.         MATERIAL MATERIAL           Insure Biological Biologicological Biological Biological Biologicologicological Biological	WALL THICKNES         D           2         //8/8         C           3	DEPTH - FEET OM TO DO20 20-23 20052 27-30 IN I LOT LOT LOT DRILLERS REMAN	AATERIAL AN AATERIAL AN 61 PLUG DEPTH SET AT- FROM 10-13 18-21 26-29 LOCA DIAGRAM BELOW SHO LINE. INDICATE VC 3 25 26 26 26 26 26 26 26 26 26 26	GING 8 -FEET MA1 14-17 22-25 30-33 80 TION O W DISTANCES O LO 7 2 2 A 23 CO 7 2 2 A 23 CO 7 2 2 A 2 CO 7 2 2 CO 7	F WELL FRIAL AND TY F WELL FROM	NG R (PE LEA	
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10-13         1           15-18         1           20-23         1           20-23         1           20-23         1           21         2           20-23         1           21         2           20-33         1           21         2           20-33         1           21         2           20-33         1           21         2           21         2           21         2           22         2           30-33         1           21         15-2           21         15-2           21         15-2           21         15-2           22         15-2           23         15-2           24         RECOMMENDED FU           30-33         2           31         15-2           32         5           33         2           30-3         2           31         15-2           32         15-3           33         2           30-3         2     <	SRESH       3       SULPHUR       14         SALTY       4       MINERAL         SRESH       3       SULPHUR         SALTY       4       MINERAL         FRESH       3       SULPHUR         SALTY       4       MINERAL         <	Instruct Diame         MATERIAL BORES           Diame         MATERIAL           Diame         MATERIAL           Diame         MATERIAL           Diame         STEEL           Diame         CONCRETE           4         OPEN HOLE           17-18         STEEL           2         GALVANIZED           3         CONCRETE           4         OPEN HOLE           24-25         STEEL           20         GALVANIZED           3         CONCRETE           4         OPEN HOLE           24-25         STEEL           20         GALVANIZED           3         CONCRETE           4         OPEN HOLE           11-14         DUPATER AT END           100         TPEET           100         TPET           11-14         DUPATER AT END           11-14         DUPATER AT END           11-14         DUPATER AT END           11-14         DUPATER AT END           11-14         DED           12         GA-45           12         GABANDONED, INSI           12         COMMERCIAL	WALL THICKNES         D           2         //88         C           2         0         17-18           3         0         7           3         0         7           3         0         7           3         0         7           3         0         7           4         0         7           4         0         7           5         COULDY         6           5         0         7           6         0         5           6         0         5           9         5         6           9         5         6           9         5         6           9         5         6           9         5         6           9         5         6           9         5         6           9         5	DEPTH         - FEET           OM         TO           OO         20-23           OO         5-2           20-23         20-52           20-52         27-30           Int         Lot           Lot         Lot           DRILLERS REMAND         Data           DATA         Source           DATA         Date of INSP	AATERIAL AN AATERIAL AN 61 PLUG DEPTH SET AT- FROM 10-13 18-21 26-29 LOCA DIAGRAM BELOW SHC LINE. INDICATE YO 3 25 26 26 KS: 58 CONTRACT 3	GING 8 -FEET MA 14-17 22-25 30-33 80 TION O W DISTANCES O BEH BY ARROW 207 2 2 A 22 300 A 207 2 2 A 207 2 2 207 207 2 207 207 2 207 207 207 207 207 207 207 207 207 207	F WELL FRIAL AND TY F WELL FROM	NG R (PE LEA	
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		$\begin{array}{c c} \text{HING} & \text{RC.} \\ \hline 0 & 1 & 7 & 0 & 5 \\ \hline 0 & 1 & 7 & 0 & 4 \\ \hline \end{array}$	ELEVATION RC. BASIN CODE	
	L.	OG OF OVERBURDEN AND BEDRO	CK MATERIALS (SEE INSTRUCTIONS)	
ENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM TO
Brown	Clay	Sand & Stones	Sandy Clay & Stones	0 3
			Med. gray limestone	3 48
	36/ast28/12/ 1004			
2 1 1		486 <i>47/5</i> 11111111111111111		
WATE	14 15 21	32		
	RRECORD	51 CASING & OPEN HOLE	A3         54         65           RECORD         Z         SIZE(S) OF OPENING (SLOT NO.)         31-33         DIAM	75 8 ETER 34-38 LENGTH 39-4
ATER OUND	KIND OF WATER		EPTH – FEET UU MATERIAL AND TYPE	
ATER OUND ATERT 10-13 2	KIND OF WATER FRESH 3 🗌 SULPHUR 14 SALTY 4 🗔 MINERAL	INSIDE MATERIAL THICKNESS FRO		ETER 34-38 LENGTH 39-4
ATER OUND 10-13	KIND OF WATER FRESH 3 SULPHUR <sup>14</sup> SALTY 4 MINERAL FRESH 3 SULPHUR <sup>19</sup> SALTY 4 MINERAL	INSIDE INCHES INCHE	ATTERIAL AND TYPE MATERIAL AND TYPE 00/22 611 PLUGGING & SEA DEPTH SET AT - FEET	INCHES FEET
ATER OUND 10-13 15-18 15-18 12 20-23 1 12 12 12 12 12 12 12 12 12	KIND OF WATER           FRESH         3         SULPHUR <sup>14</sup> SALTY         4         MINERAL           FRESH         3         SULPHUR <sup>19</sup> SALTY         4         MINERAL <sup>19</sup> FRESH         3         SULPHUR <sup>24</sup> SALTY         4         MINERAL <sup>24</sup>	INSIDE         WATERIAL         THICKNESS         DE           Inches         Inches         FRO         Inches         FRO           10-11         IN STEEL         12         GALVANIZED         STEEL         12           06         12         GALVANIZED         STEEL         12         GALVANIZED         STEEL         12           10         10         STEEL         12         GALVANIZED         STEEL         19           10         STEEL         19         2         GALVANIZED         3         CONCHETE           3         CONCHETE         GALVANIZED         3         CONCHETE         STEEL         19	American Control     American Control       13-16     Material and type       00/22     61       61     PLUGGING & SEA       20-23     DEPTH SET AT - FEET       FROM     TO       14-12     14-12	ETER 34-38 LENGTH 39- INCHES FE OF SCREEN 41-44 E OF SCREEN FEET
ATER OUND IO-13 10-13 10-13 2 15-16 15-16 1 20-23 1 20-23 1 20-23 1 20-23 1 2 2 2 2 2 2 2 2 2 2 2 2 2	KIND OF WATER           FRESH 3         SULPHUR 14           SALTY 4         MINERAL           FRESH 3         SULPHUR 19           SALTY 4         MINERAL           FRESH 3         SULPHUR 19           SALTY 4         MINERAL           FRESH 3         SULPHUR 24           SALTY 4         MINERAL           FRESH 3         SULPHUR 24           SALTY 4         MINERAL	Inscide         Material         Will         Def           Incress         Incress         FRO         FRO           10-11         Inscress         Incress         FRO           06         3         Concrete         3         Concrete           4         OPEN HOLE         250         0+1           17-18         Steel         19         2         GALVANIZED           3         CONCRETE         19         2         GALVANIZED           3         CONCRETE         19         2         GALVANIZED           3         CONCRETE         20         0+1         0+1           2         GALVANIZED         3         0         0+1           4         OPEN         HOLE         10         10           4         STEEL         26         10         10	ATTERIAL AND TYPE MATERIAL AND TYPE 00/22 611 PLUGGING & SEA 20-23 DEPTH SET AT - FEET FROM TO MATERIAL AND TYPE	INCHES FEET
ATE 2 JUND 10-13 JA 2 2 20-23 JA 20-23 JA 20-23 JA 20-23 JA 20-23 JA 2 30-33 JA 2 30-33 JA 2 2 30-33 JA 2 2 2 30-33 JA 2 2 30-33 JA 2 2 30-3 10-3 30-3 30-3 10-3 30-3 10-3 30-3 1	KIND OF WATER           FRESH         3         SULPHUR <sup>14</sup> SALTY         4         MINERAL           FRESH         3         SULPHUR <sup>19</sup> SALTY         4         MINERAL <sup>19</sup> FRESH         3         SULPHUR <sup>24</sup> SALTY         4         MINERAL <sup>24</sup> FRESH         3         SULPHUR <sup>25</sup> SALTY         4         MINERAL <sup>29</sup>	Inscide         Material         Will         Def           Incress         Incress         FRO         FRO           10-11         Inscress         Incress         FRO           06         3         Concrete         3         Concrete           4         OPEN HOLE         250         0+1           17-18         Steel         19         2         GALVANIZED           3         CONCRETE         19         2         GALVANIZED           3         CONCRETE         19         2         GALVANIZED           3         CONCRETE         20         0+1         0+1           2         GALVANIZED         3         0         0+1           4         OPEN         HOLE         10         10           4         STEEL         26         10         10	EPTH - FEET M TO 13-16 00/2 61 PLUGGING & SEA 20-23 0048 00/48 00/2 0	INCHES FEET
ATER POUND 10-13 10-13 2 2 15-16 1 20-23 1 20-23 1 20-23 1 20-23 1 2 1 20-23 1 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 2 1 1 2 2 2 1 1 2 2 2 1 1 2 2 2 2 1 1 2 2 2 2 1 1 2 2 2 2 2 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2	KIND OF WATER           FRESH         3         SULPHUR         14           SALTY         4         MINERAL           FRESH         3         SULPHUR         19           SALTY         4         MINERAL         24           FRESH         3         SULPHUR         24           SALTY         4         MINERAL         24           FRESH         3         SULPHUR         29           SALTY         4         MINERAL         29           SALTY         4         MINERAL         16           FRESH         3         SULPHUR         29           SALTY         4         MINERAL         10           HOD         10         PUMPING RAT         10	Inscrete         Wkll         Wkll         Definition           Incress         Inscress         FRO         FRO           Incress         Inscress         Inscress         Inscress	EPTH - FEET         Waterial and type           M         To           13-16         00/22           61         PLUGGING & SEA           20-23         61           004/8         20-33           004/8         18-21           27-30         18-21           26-29         30-33           60         LOCATION OF WE	ETER 34-38 LENGTH 39- INCHES FEE DEPTH TO TOP 41-44 E OF SCREEN FEET LLING RECORD D TYPE (CEMENT GROUT, LEAD PACKER, ETC.)
ATER POUND FEET 10-13 2 10-13 2 10-13 2 10-13 2 10-13 2 10-13 2 10-13 2 10-13 10 2 10-13 2 10 10 10 10 10 10 10 10 10 10	KIND OF WATER           FRESH         3         SULPHUR         14           SALTY         4         MINERAL           FRESH         3         SULPHUR         19           SALTY         4         MINERAL         19           SALTY         4         MINERAL         19           SALTY         4         MINERAL         24           FRESH         3         SULPHUR         29           SALTY         4         MINERAL         29           SALTY         4         MINERAL         10           FRESH         3         SULPHUR         34           RALTY         4         MINERAL         10           MOD         10         PUMPING RAT         2           ABILER         2000         2000         2000	Institute         MATERIAL         WILL THICKNES         DE FRO           10-11         12         STEEL         12           06         2         GALVANIZED         3         CONCRETE           4         OPEN HOLE         250         0+1           17-18         1         STEEL         19           2         GALVANIZED         3         CONCRETE           4         OPEN HOLE         26         2           2         GALVANIZED         3         CONCRETE           4         OPEN HOLE         26         2           2         GALVANIZED         3         CONCRETE           4         OPEN HOLE         26         2           3         CONCRETE         4         OPEN HOLE           8         GPM         15-16         17-18           8         GPM         OPEN HOLE         15-16           8         GPM         OPEN MOLE         15-16           8         GPM         OPEN MOLE         10-18           18         LEVELS DURING         1         PUMPING           2         RECOVERY         2         RECOVERY <td>EPTH - FEET         W         Material and type           Image: State of the sta</td> <td>ETER 34-38 LENGTH 39- INCHES FEE DEPTH TO TOP 41-44 E OF SCREEN FEET LLING RECORD D TYPE (CEMENT GROUT, LEAD PACKER, ETC.)</td>	EPTH - FEET         W         Material and type           Image: State of the sta	ETER 34-38 LENGTH 39- INCHES FEE DEPTH TO TOP 41-44 E OF SCREEN FEET LLING RECORD D TYPE (CEMENT GROUT, LEAD PACKER, ETC.)
ATER POUND 10-13 12 10-13 12 10-13 12 10-13 12 12 15-16 12 12 12 12 12 12 12 12 12 12	KIND OF WATER           FRESH 3         SULPHUR 14           SALTY 4         MINERAL           FRESH 3         SULPHUR 19           SALTY 4         MINERAL           FRESH 3         SULPHUR 24           SALTY 4         MINERAL           FRESH 3         SULPHUR 24           SALTY 4         MINERAL           FRESH 3         SULPHUR 28           SALTY 4         MINERAL           FRESH 3         SULPHUR 28           SALTY 4         MINERAL           FRESH 3         SULPHUR 24           SALTY 4         MINERAL           HOD         10           PUMPING RAT         22           BAILER         2000           WATER LEVEL END OF         25           WATER         25           GUA 04         15 MINUTE	Instruction         MATERIAL         WILL THICKISS         DE FRO           10-11         STEEL         12           06         3         GALVANIZED           3         CONCRETE         250           17-18         STEEL         19           2         GALVANIZED         3           3         CONCRETE         250           4         OPEN HOLE         250           3         CONCRETE         2           4         OPEN HOLE         26           2         GALVANIZED         3           3         CONCRETE         4           4         OPEN HOLE         26           2         GALVANIZED         3           3         CONCRETE         4           4         OPEN HOLE         15-16           3         CONCRETE         4           4         OPEN HOLE         10           8         GPM         15-16           9         OHNING         1           10         PUMPING           10         10           20         20           30         00           30         00	EPTH - FEET         W         Material and type           Material and type         Material and type         Material and type           00/2         61         PLUGGING & SEA           20-23         61         PLUGGING & SEA           20-23         000000000000000000000000000000000000	ETER 34-38 LENGTH 39- INCHES FEE DEPTH TO TOP 41-44 E OF SCREEN FEET LLING RECORD D TYPE (CEMENT GROUT, LEAD PACKER, ETC.)
АТЕВ ООИЮ ГЕЕТ 10-13 21 20-23 1 20-24	KIND OF WATER         FRESH       3       SULPHUR         SALTY       MINERAL         FOD       10       PUMPING RAT         2       BAILER       WATER LEVEL         PUMPING       PUMPING RAT       15         VATER LEVEL       25       WATE         OLA       72-24       T5         JLB       FEET       7EE         38-41       PUMP INTAKE	Instruct         MATERIAL         WKLL         DE           INCHES         MATERIAL         THICKESS         FRO           INCHES         INCHES         INCHES         INCHES           INCHES         OPEN HOLE         250         OH           INCHES         INCHES         INCHES         INCHES	EPTH - FEET         W         W           IN         TO         IN           00/22         61         PLUGGING & SEA           61         PLUGGING & SEA           20-23         61         PLUGGING & SEA           00/48         20-23         In           0049         10-13         14-17           0049         18-21         22-25           26-29         30-33         80           LOCATION OF WE         NDIAGRYM BLOW SIGN DISTANCES OF WELL FF	ETER 34-38 LENGTH 39- INCHES FEE DEPTH TO TOP 41-44 E OF SCREEN FEET LLING RECORD D TYPE (CEMENT GROUT, LEAD PACKER, ETC.)
ATER POUND TEET 10-13 2 2 20-23 1 20-23 1 20-23 1 20-23 1 2 2 2 2 2 2 2 2 2 2 2 2 2	KIND OF WATER           FRESH 3         SULPHUR 14           SALTY 4         MINERAL           FRESH 3         SULPHUR 19           SALTY 4         MINERAL           FRESH 3         SULPHUR 24           SALTY 4         MINERAL           HOD         IO           PUMPING         PUMPING RAT           2         BAILER           WATER         22-24           IS MINUTE         22-24           IS MINUTE         7FE           SB-11         PUMPING           FEET         7FE           GPM         FEONTMENDEE           PUMP         PUMP ENTAMENDEE	Instruct         MATERIAL         WKLL         DE           INCHES         MATERIAL         THICKISS         FRO           INCHES         INCHES         INCHES         INCHES           ISIGE         OPEN HOLE         250         OH           ISIGE         STEEL         12         INCHES         INCHES           ISIGE         OPEN HOLE         INCHES         INCHES         INCHES           ISIGE         OPEN HO	EPTH - FEET         W         Material and type           Material and type         Material and type         Material and type           00/2         61         PLUGGING & SEA           20-23         61         PLUGGING & SEA           20-23         000000000000000000000000000000000000	ETER 34-38 LENGTH 39- INCHES FEE DEPTH TO TOP 41-44 E OF SCREEN FEET LLING RECORD D TYPE (CEMENT GROUT, LEAD PACKER, ETC.)
АТЕР РОИЛО 10-13 / 2 10-13 / 2 20-23 / 2	KIND OF WATER       FRESH 3	Inscreption         Material         Will         Definition           Incress         Material         Trickess         FRO           Incress         Incress         Incress           Incress <td< td=""><td>EPTH - FEET         W         Material and type           Material and type         Material and type         Material and type           00/2         61         PLUGGING &amp; SEA           20-23         61         PLUGGING &amp; SEA           20-23         000000000000000000000000000000000000</td><td>ETER 34-38 LENGTH 39- INCHES FEE DEPTH TO TOP 41-44 E OF SCREEN FEET LLING RECORD D TYPE (CEMENT GROUT, LEAD PACKER, ETC.)</td></td<>	EPTH - FEET         W         Material and type           Material and type         Material and type         Material and type           00/2         61         PLUGGING & SEA           20-23         61         PLUGGING & SEA           20-23         000000000000000000000000000000000000	ETER 34-38 LENGTH 39- INCHES FEE DEPTH TO TOP 41-44 E OF SCREEN FEET LLING RECORD D TYPE (CEMENT GROUT, LEAD PACKER, ETC.)
ATER OUND TEET 10-13 2 2 20-23 1 20-24 1 20-25 20-25 20-	KIND OF WATER         FRESH       3       SULPHUR         SALTY       4       MINERAL         NOD       10       PUMPING RAT         2       BAILER       OOG         WATER LEVEL END OF       25         WATER LEVEL END OF       7         OLA       FEET         DEEP       SETTING         0       0         P TYPE       PUMP         DEEP       SETTING         0       0         0       OBSERVATION	Instruct         MATERIAL         WILL         DE           INCHES         MATERIAL         THICKNESS         FRO           INCHES         INCHES         FRO         FRO           INCHES         INCHES         INCHES         FRO           INCHES         GALVANIZED         3         CONCRETE         2           INCHES         STEEL         19         2         GALVANIZED           3         CONCRETE         2         GALVANIZED         3         CONCRETE           4         OPEN HOLE         26         2         GALVANIZED         3         CONCRETE           4         OPEN HOLE         15-16         CI         17-18         SCONCRETE         4         OPEN HOLE           2         GALVANIZED         3         CONCRETE         4         OPEN HOLE         17-18           8         GPM         OPEN HOLE         SCONCRETE         4         OPEN HOLE         10           4         OPEN HOLE         15-16         CI         17-18         MINIS           8         GPM         OPEN HOLE         10         10         10         10           5         300 MINUTES         00         10	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	ETER 34-38 LENGTH 39- INCHES FEE DEPTH TO TOP 41-44 E OF SCREEN FEET ALLING RECORD D TYPE (CEMENT GROUT, LEAD PACKER, ETC.) LLA LL ROM ROAD AND
ATER FLEVIND 10-13 10-13 20-23 15-18 20-23 12-23 13-23 12-23 12-23 13-23 12	KIND OF WATER         FRESH       3       SULPHUR         SALTY       4       MINERAL         HOD       10       PUMPING RAT         VATER LEVEL       25       WATE         PUMP       72:24       15         SALTY       8       FEET         Ø       72:24       74         Ø       74       74         Ø       75:224       74         Ø       75:224       75         Ø       75:24000       74 <tr< td=""><td>Instruction         MATERIAL         WILL THICKNES         DE THICKNES         DE FRO           10-11         STEEL         12         FRO         FRO         FRO           10-11         STEEL         12         GALVANIZED         3         CONCRETE         250         0+1           17-18         STEEL         19         2         GALVANIZED         3         CONCRETE           4         OPEN HOLE         26         2         GALVANIZED         3         CONCRETE           4         OPEN HOLE         26         2         GALVANIZED         3         CONCRETE           4         OPEN HOLE         26         2         GALVANIZED         3         CONCRETE           3         CONCRETE         4         OPEN HOLE         15-16         17-18           8         GPM.         O         HOURS         MINITES         00         33,37           30 MINUTES         03,44         03,434         00,474         00,3737         03,474         00,3737           5         30 MINTER         RECOMENDED         42         CLEAR         2         CLUDY           330         FEET         SET AT         SET AT         GAMINAGES</td><td><math display="block">\begin{array}{c c c c c c c c c c c c c c c c c c c </math></td><td>ETER 34-38 LENGTH 39- INCHES FEE DEPTH TO TOP 41-44 E OF SCREEN FEET ALLING RECORD D TYPE (CEMENT GROUT, LEAD PACKER, ETC.) LLA LL ROM ROAD AND</td></tr<>	Instruction         MATERIAL         WILL THICKNES         DE THICKNES         DE FRO           10-11         STEEL         12         FRO         FRO         FRO           10-11         STEEL         12         GALVANIZED         3         CONCRETE         250         0+1           17-18         STEEL         19         2         GALVANIZED         3         CONCRETE           4         OPEN HOLE         26         2         GALVANIZED         3         CONCRETE           4         OPEN HOLE         26         2         GALVANIZED         3         CONCRETE           4         OPEN HOLE         26         2         GALVANIZED         3         CONCRETE           3         CONCRETE         4         OPEN HOLE         15-16         17-18           8         GPM.         O         HOURS         MINITES         00         33,37           30 MINUTES         03,44         03,434         00,474         00,3737         03,474         00,3737           5         30 MINTER         RECOMENDED         42         CLEAR         2         CLUDY           330         FEET         SET AT         SET AT         GAMINAGES	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	ETER 34-38 LENGTH 39- INCHES FEE DEPTH TO TOP 41-44 E OF SCREEN FEET ALLING RECORD D TYPE (CEMENT GROUT, LEAD PACKER, ETC.) LLA LL ROM ROAD AND
ATE2 FLEVIND 10-13 20-23 15-18 20-23 12-23 13-23 12-23 13-23 12	KIND OF WATER         KIND OF WATER         FRESH 3       SULPHUR <sup>14</sup> SALTY 4       MINERAL         FRESH 3       SULPHUR <sup>19</sup> SALTY 4       MINERAL         FRESH 3       SULPHUR <sup>19</sup> SALTY 4       MINERAL         FRESH 3       SULPHUR <sup>24</sup> SALTY 4       MINERAL         PALER       25         WATER LEVEL END OF PUMPING       25         VATER SUPLY       004         DEEP       SETTING         OQ.       PMM /FT. SPECT         OQ.       PMM /FT. SPECT         VATER SUPPLY       0055ERVATION WE         OD GEEP       STOCK	Instruct         MATERIAL         WILL THICKNES         DE FRO           10-11         STEEL         12           06         2         GALVANIZED           3         CONCRETE         2           4         OPEN HOLE         250           17-18         STEEL         19           2         GALVANIZED         3           3         CONCRETE         2           4         OPEN HOLE         250           3         CONCRETE         2           4         OPEN HOLE         26           2         GALVANIZED         3           3         CONCRETE         4           4         OPEN HOLE         15-16           3         CONCRETE         4           4         OPEN HOLE         17-18           8         GrM.         15-16         17-18           8         GrM.         15-16         01           8         GrM.         17-18         18           9         20         24         00         37           9         24         100         37           9         24         100         37	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	ETER 34-38 LENGTH 39- INCHES FEE DEPTH TO TOP 41-44 E OF SCREEN FEET ALLING RECORD D TYPE (CEMENT GROUT, LEAD PACKER, ETC.) LLA LL ROM ROAD AND
ATER OUND TEET 10-13 2 2 20-23 125-28 1 20-23 125-28 1 20-23 125-28 1 20-23 125-28 1 2 2 2 2 2 2 2 2 2 2 2 2 2	KIND OF WATER         FRESH       3       SULPHUR         SALTY       4       MINERAL         FRESH       3       SULPHUR         VATER       22       WATER         WATER       22-24       IS MINUTE         WATER       22-24       IS MINUTE         OD       10       PUMPING RAT         QUA       22-24       IS MINUTE         VATER       22-24       IS MINUTE         DO BEEP       SETING       GOM         QUA       24       PMMP         DO BEEP       SETING       GOM         24       DOBE	Inches         MATERIAL         WALL THICKNES         DE FRO           10-11         STEEL         12         FRO         FRO           10-11         STEEL         12         GALVANIZED         FRO           3         CONCRETE	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	ETER 34-38 LENGTH 39- INCHES FEE DEPTH TO TOP 41-44 E OF SCREEN FEET LLING RECORD D TYPE (CEMENT GROUT, LEAD PACKER, ETC.)
ATER JOUND TEET 10-13 20-23 20-23 12 20-23 20-23 20-23 20-25 55 55 55 55 55 55 55 55 55	KIND OF WATER         FRESH       3       SULPHUR         SALTY       4       MINERAL         HOD       10       PUMPING         2       BAILER       2000         WATER       EVENTING       76         DALB       FEET       76         DEEP       SETTING       76         OBSERVATION WE       3       TEST HOLE         4       IRGEATION       4       STOCK         3       IRGIGATION       4       STOCK         3	Incress         MATERIAL         WILL THICKISS         DE FRO           10-11         STEEL         12         FRO           10-11         STEEL         12         GALVANIZED         SICONCRETE         FRO           10-11         STEEL         12         GALVANIZED         GALVANIZED         SICONCRETE         FRO           10-11         STEEL         19         CONCRETE         SICONCRETE         FRO           117-18         STEEL         19         CONCRETE         SICONCRETE         FRO           2         GALVANIZED         GOLAVANIZED         GOLAVANIZED         SICONCRETE         FRO           2         CONCRETE         -         OPEN HOLE         FRO         MINO           2         GOLAVANIZED         GOLAVANIZED         GOLAVANIZED         MINO           3         CONCRETE         -         OPEN HOLE         FRO         MINO           2         GOLAVANIZED         GOLAVANIZED         GOLAVANIZED         MINO         MINO         MINO           2         CONCRETE         -         OPEN HOLE         FRO         MINO         MINO         MINO         MINO         SICONCRETE         GOLAVANIZED         GOLAVANIZED         GOLAVANIZED	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	ETER 34-38 LENGTH 39- INCHES FEE DEPTH TO TOP 41-44 E OF SCREEN FEET ALLING RECORD D TYPE (CEMENT GROUT, LEAD PACKER, ETC.) LLA LL ROM ROAD AND
ATER COUND TEET 10-13 2 2 2 2 2 2 2 2 2 2 2 2 2	KIND OF WATER       KIND OF WATER       FRESH     3     SULPHUR       SALTY     4     MINERAL       HOD     10     PUMPING       2     BAILER     2000       WATER     LEVEL     2000       PUMPING     22-24     15 MINUTE       DALB     FEET     7FE       DEEP     SETTING       Q.D. Q. EPM. /FT. SPECI       PUMPING     GPM       PTYPE     BEET       PUMP     DEEP       STOCK     3       3     TEST HOLE       4     INDUSTRIAL       0     OTHER       STOCK     3       3     INTEIGATION       SALTSTAY (CONVEN	Instruct         MATERIAL         WILL THICKNES         DE FRO           10-11         INSTREL         12           06         STEEL         12           06         STEEL         12           06         STEEL         12           06         STEEL         12           10-11         STEEL         12           06         STEEL         12           11-16         STEEL         19           2         GALVANIZED         3           3         CONCRETE         -           4         OPEN HOLE         -           2         GALVANIZED         3           3         CONCRETE         -           4         OPEN HOLE         -           2         GALVANIZED         -           3         CONCRETE         -           4         OPEN HOLE         -           5         CONCRETE         -           4         OPEN HOLE         -           5         CONCRETE         -           4         OPEN HOLE         -           5         SOMINUTES         -           6         OPEN HOLE         -	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	ETER 34-38 LENGTH 39- INCHES FEE DEPTH TO TOP 41-44 E OF SCREEN FEET ALLING RECORD D TYPE (CEMENT GROUT, LEAD PACKER, ETC.) LLA LL ROM ROAD AND
ATER JOUND 10-13 10-13 20-23 12-23 13-23 12-2	KIND OF WATER         FRESH       3       SULPHUR         SALTY       4       MINERAL         HOD       10       PUMPING         2       BAILER       2000         WATER       LEVEL       25         WATER       SUPHUR       74         DALER       22-24       15         MINUTE       25       WATER         PUMPING       22-24       15         PUMPING       74       15         PUMPING       75       15         DEEP       SETTING       2000         STEST HOLE       3       165	Incress         MATERIAL         WALL THICKNESS         DE FRO           10-11         STEEL         12         FRO           10-11         STEEL         12         GALVANIZED         GALVANIZED           3         CONCRETE	DEILLEES REMARKS:	ETER 34-38 LENGTH 39- INCHES FE DEFTH TO TOP 41-44 E DEFTH TO TOP 41-44 E LING RECORD TYPE LEAD PACKER, ETC.) LLNG RECORD TYPE LEAD PACKER, ETC.) LLNG ROAD AND LLNG ROAD AND
	KIND OF WATER         KIND OF WATER         FRESH       3       SULPHUR         SALTY       4       MINERAL         FRESH       3       SULPHUR         BAILER       WATER       WATER         WHOPING       22-24       IS INHUTE         DOME       STITING       0044         P TYPE       DEEP       STITING         ODG       2       RPM./FT. SPECI         DOBERVATION       WATER SUPPLY       005ERVATION WE         3	INCLES         WALL         WALL         DE           INC.HES         INC.HES         FRO         FRO           INC.HES         INC.HES         INC.HES         FRO           ISTELL         ISTELL         ISTELL         ISTELL         ISTELL           ISTERL         ISTEEL         ISTEEL         ISTEEL         ISTEEL         ISTEEL           ISTERL         ISTEEL         ISTEEL         ISTEEL         ISTEEL         ISTEEL         ISTEEL           ISTERL         ISTEEL	EPTH - FEET         Material and type           Martin To         13-16           00/2         61           20-23         61           20-24         61           20-25         61           20-26         61           20-27         61           20-28         61           20-29         61           20-29         10-13           10-13         14-17           10-2         22-25           20-29         30-33           20-29         30-33           20-20         10-22           20-21         22-25           20-23         10-21           20-24         100           20-25         26-29           20-26         26-29           20-30         100           20-10         100           20-10         100           20-10         100           20-10         100           20-10         100           20-10         100           21         100           31         102           31         102           20-10         20	ETER 34-38 LENGTH 39- INCHES FE DEFTH TO TOP 41-44 E OF SCREEN FEET ALLING RECORD D TYPE LEAD PACKER, ETC.) LEAD PACKER, ETC.) LL LL ROM ROAD AND
	KIND OF WATER         FRESH       3       SULPHUR         SALTY       4       MINERAL         HOD       10       PUMPING         2       BAILER       2000         WATER       LEVEL       25         WATER       SUPHUR       74         DALER       22-24       15         MINUTE       25       WATER         PUMPING       22-24       15         PUMPING       74       15         PUMPING       75       15         DEEP       SETTING       2000         STEST HOLE       3       165	INCLES         WALL         WALL         DE           INC.HES         INC.HES         FRO         FRO           INC.HES         INC.HES         INC.HES         FRO           ISTELL         ISTELL         ISTELL         ISTELL         ISTELL           ISTERL         ISTEEL         ISTEEL         ISTEEL         ISTEEL         ISTEEL           ISTERL         ISTEEL         ISTEEL         ISTEEL         ISTEEL         ISTEEL         ISTEEL           ISTERL         ISTEEL	DEILLEES REMARKS:	ETER 34-38 LENGTH 39- INCHES FE DEFTH TO TOP 41-44 E OF SCREEN FEET ALLING RECORD D TYPE LEAD PACKER, ETC.) LEAD PACKER, ETC.) LL LL ROM ROAD AND

Well ID Number: 1512375 Well Audit Number: Well Tag Number:

This table contains information from the original well record and any subsequent updates.

### Well Location

Address of Well Location	
Township	GLOUCESTER TOWNSHIP
Lot	022
Concession	RF 04
County/District/Municipality	OTTAWA-CARLETON
City/Town/Village	
Province	ON
Postal Code	n/a
	NAD83 — Zone 18
UTM Coordinates	Easting: 454020.70
	Northing: 5017262.00
Municipal Plan and Sublot Number	
Other	

# **Overburden and Bedrock Materials Interval**

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
BRWN	OBDN	SAND		0 ft	9 ft
WHIT	SNDS			9 ft	74 ft

# Annular Space/Abandonment Sealing Record

DepthDepthType of Sealant UsedVolumeFromTo(Material and Type)Placed

# Method of Construction & Well Use

Method of Construction Well Use Diamond

Domestic

### **Status of Well**

Water Supply

# **Construction Record - Casing**

Inside	Open Hole or material	Depth	Depth
Diameter		From	To
2 inch	GALVANIZED OPEN HOLE		20 ft 74 ft

# **Construction Record - Screen**

Outside Diameter Material Depth Depth From To

# Well Contractor and Well Technician Information

# **Results of Well Yield Testing**

After test of well yield, water was	CLEAR
If pumping discontinued, give reason	
Pump intake set at	
Pumping Rate	8 GPM
Duration of Pumping	2 h:0 m
Final water level	12 ft
If flowing give rate	
Recommended pump depth	35 ft
Recommended pump rate	8 GPM
Well Production	PUMP
Disinfected?	

### **Draw Down & Recovery**

Draw Down Time(min)	Draw Down Water level	Recovery Time(min)	<b>Recovery Water level</b>
SWL	6 ft		
1		1	
2		2	
3		3	
4		4	
5		5	
10		10	
15	12 ft	15	
20		20	
25		25	
30	12 ft	30	
40		40	
45	12 ft	45	
50		50	
60	12 ft	60	

### Water Details

Water Found at Depth	Kind
74 ft	Fresh

### **Hole Diameter**

Depth Depth From To Diameter

### Audit Number:

Date Well Completed: November 27, 1972

### Date Well Record Received by MOE: March 07, 1973

Updated: February 2, 2018 Rate <u>Rate</u> Share <u>facebook twitter Print</u> Tags

• Environment and energy,

Ontario	1. PRINT ONLY IN SPA		L RECORD	319/5a
DUNTY OR DISTRICT	2. CHECK 🛛 CORRECT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	3 9 CON. BLOCK. TRACT_SURVEY_ETC.	1 22 23 LOT 25-1
LETRIM	ST) 28.47 ON		DATE O	
UNITED CO	- OP OF ONTARIC	R. R. #6 OKRAWA, O	ELEVATION PC BASIN CODE	16 MO. (8 YR7
	1/18 1/1538	5.0 5.0 1.7.2.1.5 6		
	LOG	OF OVERBURDEN AND BEDROCI		DEPTH - FEET
ENERAL COLOUR	COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	FROM TO
Brown	Tep Seil	D \$ 4	Seft	<u>0</u> 4 4 12
Brown	Soil Limestone	Boulder Clay	Hard Soft Porous	12 16
Grey White	Limestone	Limestone Grey	Medium Hard	16 50
32 41 WA ATER FOUND ATT FEET 48 10-13 1 ( 15-18 1 ( 2 ( 20-23 1 ( 2 -23 2 ( 2 -23 1 ( 2 -23 2 ( 2 -	ÁG 92	32         51)       CASING & OPEN HOLE RE         Inston       MATERIAL       THICKNES         Instruct       THICKNES       FROM         OG 10-11       STEEL       12         2 GALVANIZED       3 CONCRETE       4         10 OPEN HOLE       9       2         2 GALVANIZED       3 CONCRETE       4         4 OPEN HOLE       9       2         2 GALVANIZED       3 CONCRETE       4         4 OPEN HOLE       2       CONCRETE         4 COPEN HOLE       10       5         10 CONCRETE       4       0         3 CONCRETE       4       0         4 COPEN HOLE       10       5         10 CONCRETE       4       0         10 OPEN HOLE       10       10         11-14       DUBRATION OF PUMPING       11	CORD TH - FEET TO TO TO TO TO TO TO TO TO T	DIAMETER 34-30 LENGTH 31 INCHES P INCHES P OF SCREEN FEET EALING RECORD AND TYPE (CEMENT GROUT LEAD PACKER, ETC.) ELL
50-53 FINAL	римріка 1 22-24 IS MINUTES 22-24 IS MINUTES 24-28 24-28 38-41 РИМР ІНТАКЕ SE GPM RECOMMENDED РИМР	GPM	IN DIAGRAM BELOW SHOW LISONCES OF CLOT LINE. INDICATE MORTH BY ARROW	BLL FROM FOAD AND CA
STATUS OF WELL WATER USE () METHOD OF DRILLING	OTHER     OTHER     CABLE TOOL     CABLE TOOL     CONVENTION     OTARY (CONVENTION     OTARY (REVERSE)	7 UNFINISHED 5 COMMERCIAL 6 MUNICIPAL 7 PUBLIC SUPPLY 8 COOLING OR AIR CONDITIONING 9 NOT USED 6 BORING 0 JETING 9 DIAMOND 6 JETING 9 DRIVING	1	Ext my
ADDRESS	CONTRACTOR BORNE DRILLING LI 218 STATION "E" LEN OR ADREN	DITED LICENCE NUMBER 2557 OTTAMA ONTARIO REENCE NUMBER 2557 SUBMISSION DATE	DRILLERS REMARKS:	28 19 79 K P-R

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Ontario		Y IN SPACES PROT CORRECT BOX WH			151466	4.		ŘF.	
COUNTY OF DISTRICT	- al	TOWNS	SHIP, BOROUGH, CITY,	(		CON., E	THE R		LOT 25-27 022.
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41 WA	TER RECORD	51	CASING & (	OPEN HOLE			4 ) OF OPENING NO.)		-38 LENGTH 39
WATER FOUND AT - FEET	KIND OF WATER	INSIDE DIAM. INCHES	MATERIAL	THICKNESS	DEPTH - FEET		NAL AND TYPE	INCI DEPTH TO OF SCREE	TOP 41-44
032 20	SALTY 4 MINERAL	-14	11 1 1 ZEL 12 2 GALVANIZED 3 CONCRETE	188 0	) ZT.		PLUCCIN	G & SEALING R	FEET
0/11 2	SALTY 4 MINERAL		4 OPEN HOLE	9	20-23	61 DEPTH S	ET AT . FEFT		CEMENT GROUT
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2 1	SALTY 4 MINERAL	24-2	4 OPEN HOLE 25 1 STEEL 26 2 GALVANIZED	•	27-30	18-			
	G FRESH 3 GULPHU		3 CONCRETE 4 OPEN HOLE						
TI PUMPING TEST ME		NG RATE	11-14 DURATION OF PU				CONTION C		
	2 D BAILER	12	GPM. 0/ 15-1 HOU						317
STATIC	WATER LEVEL 25 END OF W PUMPING	ATER LEVELS DUR	GPMHOU RING 2 []	URS MINS. PUMPING RECOVERY		AGRAM BELC		S OF WELL FROM RO	
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ISE DI COMMENDED P RECOMMENDED P SHALLO SO-53 FINAL		INUTES         30 MINI           24-28         0.2           FEET         0.2           INTAKE SET AT         50           MINIME DED         0.0           MG         OF           PLY         5           ON WELL         6		URS		AGRAM BELC INE. IND	W SHOW DISTANCE	S OF WELL FROM RC	
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STATIC LEVEL 19-2 PECOMMENDED P RECOMMENDED P SHALLO 50-53 FINAL STATUS OF WELL WATER USE METHOD OF DRILLING	WATER LEVEL PUMPING         25           WATER LEVEL PUMPING         22.24         15           II         22.24         15           22.24         15         M           II         22.24         15           GPM         FEET         02           GPM         FEET         01           GPM         GPM         GPM           GPM         OBSERVATIN         GPM./           J         GPM         GPM./           J         GPM         GPM./           J         GPM./         GPM./           J         TEST HOLE         GPM./           J         TEST HOLE         GPM./           J         TEST HOLE         GPM./           J         TEST HOLE         GPM./           J         ISTOCK         J           J         ISTOCK         J           J         GPM./         OTHER           J         GPM./         GPM./           J         IRGENT         GPM./           J         IRGUNSTRIA         GPM./           J         GROTARY IR         GPM./           J         GROTARY IR         GPM./ <td>INUTES         30 MINI           24-28         0.2           FEEL         0.2           FEEL         0.2           INTAKE SET AT         50           SG         0.2           FELSE         0.2           INTAKE SET AT         50           SG         0.2           INTAKE SET AT         50           SG         0.2           INTAKE SET AT         50           SG         0.2           INTAKE SET AT         50           PPLY         51           ON WELL         61           S         7           WELL         61           N         7           N         7           S         7           N         7           N         7           N         7           N         7           N         7           N         7           N         7           N         7           N         7           N         7           N         7           N         7           N         <t< td=""><td>GFM        </td><td>UNS</td><td>DRILLERS REMAR</td><td>AGRAM BELC</td><td>Glowersten</td><td>S OF WELL FROM RC</td><td>DAD AND</td></t<></td>	INUTES         30 MINI           24-28         0.2           FEEL         0.2           FEEL         0.2           INTAKE SET AT         50           SG         0.2           FELSE         0.2           INTAKE SET AT         50           SG         0.2           INTAKE SET AT         50           SG         0.2           INTAKE SET AT         50           SG         0.2           INTAKE SET AT         50           PPLY         51           ON WELL         61           S         7           WELL         61           N         7           N         7           S         7           N         7           N         7           N         7           N         7           N         7           N         7           N         7           N         7           N         7           N         7           N         7           N         7           N <t< td=""><td>GFM        </td><td>UNS</td><td>DRILLERS REMAR</td><td>AGRAM BELC</td><td>Glowersten</td><td>S OF WELL FROM RC</td><td>DAD AND</td></t<>	GFM	UNS	DRILLERS REMAR	AGRAM BELC	Glowersten	S OF WELL FROM RC	DAD AND
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Ontario	I. PRINT ONLY IN S	SPACES PROVIDED ECT BOX WHERE APPLICABLE	11		51466	34 .!	MUNICIP	J.L.	. II. LL
		TOWNSHIP, BOROUGH, C	CITY, TOWN. VILLA	GE		CON	BLOCK, TRACT, SUF	RVEY, ETC.	
OWNER (SURNAME FIRST)	28 47	ADDRESS	cester			l	<u> </u>	DATE CON	-
Conadian	- Inclustries	Ltel H	<u>ין <del>#</del> 3\</u>	RC		CLASS.			О NO2
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Grey	Limestone					Sou	_d./		30
white !	Sandstone					50.	<u>`</u> `		111
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	R RECORD	INSIDE	& OPEN HO		CORD		S) OF OPENING	31-33 DIAN	METER 34-3
10-13 I	KIND OF WATER	DIAM. MATERIAL	THICKNESS	FROM	TO 13-16	SCRI	RIAL AND TYPE		DEPTH TO T OF SCREEN
16	ALTY 4 MINERAL	11, 2 GALVANIZ				Land and the second			
	RESH 3 T SULPHUR			0	22.	61	PLUCC	NG & CEA	
	RESH 3 SULPHUR 19 ALTY 4 MINERAL	4 OPEN HOL	LE 19	0	20.23		SET AT - FEET	MATERIAL A	
20-23 1 [] F 2 [] S	ALTY 4 [] MINERAL RESH 3 [] SULPHUR <sup>24</sup> ALTY 4 [] MINERAL	4 OPEN HOL 17-10 1 STEEL 2 GALVANIZ 5 7 8 3 CONCRETI	LE 19 ZED E	22	20.23		SET AT - FEET TO		ND TYPE (
20-23 1 [ F 2 ] S 25-28 1 [ F 2 [ S	ALTY 4 [] MINERAL RESH 3 [] SULPHUR <sup>24</sup> ALTY 4 [] MINERAL RESH 3 [] SULPHUR <sup>29</sup> MALTY 4 [] MINERAL	4	LE 19 19 EE LE 26		20.23	DEPTH S FROM 10	SET AT - FEET TO -13 14-17 -21 22-25	MATERIAL A	ND TYPE
20-23 1 [ F 2 ] S 25-24 1 F 2 ] S 30-33 1 F	ALTY 4 [] MINERAL RESH 3 [] SULPHUR <sup>24</sup> ALTY 4 [] MINERAL RESH 3 [] SULPHUR <sup>29</sup>	4 OPEN HOL 17-10 1 STEEL 2 GALVANIZ 3 CONCRET 4 DOPEN HOL 24-25 1 STEEL	LE 19 22ED E LE 26 22ED E LE 26 E		125	DEPTH S FROM	SET AT - FEET TO -13 14-17 -21 22-25		ND TYPE
20-23 ; ; ; ; ; 2 . ; ; 25 . 24 ; ; ; ; ; ; 2 . ; ; 30-33 ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	ALTY 4 I MIRERAL RESH 3 SULPHUR 24 ALTY 4 MINERAL IRESH 3 SULPHUR 29 ALTY 4 MINERAL RESH 3 SULPHUR 38 ALTY 4 MINERAL 0 10 PUMPING RAT	4 0 OPEN HOL 17-18 1 5 STEEL 2 GALVANIE 2 GALVANIE 2 GALVANIE 2 GALVANIE 2 GALVANIE 2 GALVANIE 3 0 CONCRET 4 0 OPEN HOL 24-25 1 6 STEEL 3 0 CONCRET 4 0 OPEN HOL CONCRET 4 0 OPEN HOL 1 0 STEEL 1	19 19 26 26 26 26 26 26 26 26 26 26	22	125	DEPTH S FROM 10. 18. 26-	SET AT - FEET TO -13 14-17 -21 22-25	MATERIAL AI	ND TYPE (
20-23 ;	ALTY 4 $\square$ MIRERAL RESH 3 $\square$ SULPHUR <sup>24</sup> ALTY 4 $\square$ MIRERAL RESH 3 $\square$ SULPHUR <sup>23</sup> ALTY 4 $\square$ MIRERAL RESH 3 $\square$ SULPHUR <sup>23</sup> ALTY 4 $\square$ MIRERAL D IO PUMPING RATE $\square$ BAILER $\square$ BAILER $\square$ C	4 OPEN HOL 17-18 1 STEEL 2 GALVANIZ 3 GORGET 24-25 1 STEEL 2 GALVANIZ 3 CONCRET 4 OPEN HOL 24-25 1 STEEL 3 CONCRET 4 OPEN HOL 5 OPEN HOL 24-25 1 STEEL 5 CONCRET 4 OPEN HOL 5 CONCRET 4 OPEN HOL 5 CONCRET 4 OPEN HOL 5 CONCRET 4 OPEN HOL 5 CONCRET 5 CONCRE	EE 19 EE E 26 26 26 26 26 26 26 26 26 26	22	20-23 125 27-30	DEPTH S FROM 10 18 26 L	SEET         AT         FEET           TO         14-17           -21         22-25           29         30-33	ATERIAL AT	ND TYPE (E)
20-23 ;	ALTY 4   MIRERAL RESH 3   SULPHUR <sup>24</sup> ALTY 4   MIRERAL RESH 3   SULPHUR <sup>23</sup> ALTY 4   MIRERAL RESH 3   SULPHUR <sup>23</sup> ALTY 4   MIRERAL D   D   PUMPING RATE D BAILER NO 70   PUMPING RATE C NO 70   PUMPING RATE C N	4 0 OPEN HOL 17-18 1 0 STEEL 2 0 GALVANIZ 3 0 CONCRET 4 0000000 HOL 24-25 1 0 STEEL 3 0 CONCRET 4 0 OPEN HOL 24-25 1 0 STEEL 3 0 CONCRET 4 0 OPEN HOL 4 0 0 OPEN HOL 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EE	22 17-18 1175	20-23 125 27-30	L DEPTH S FROM 10 10 10 10 10 10 10 26 L AGRAM BELC LINE. IND	SET AT - FEET         TO           -13         14-12           -21         22-25           29         30-33           O C ATION           OW SHOW DISTAI           DICATE NORTH BY	OF WE	ND TYPE LE
20-23 ; [ F 2 ] S 25 26 ; [ F 2 ] S 25 26 ; [ F 2 ] S 30-33 ; [ F 2 ] S 30-33 ; [ F 2 ] S 30-31 ; [ F 2 ] S 30-31 ; [ F 2 ] S 30-32 ; [ F 2 ] S 30-32 ; [ F 2 ] S 30-33 ; [ F 2 ] S 30-34 ; [ F 2 ] S 30-35 ; [ F 30-35 ; [ F 30-3	ALTY 4 MINERAL RESH 3 SULPHUR <sup>24</sup> ALTY 4 MINERAL RESH 3 SULPHUR <sup>24</sup> ALTY 4 MINERAL RESH 3 SULPHUR <sup>26</sup> ALTY 4 MINERAL D 10 PUMPING RATI D BAILER D 10 PUMPING RATI D BAILER 25 WATER LYYL 25 WATER LYYL 27 WATER L	4 0 OPEN HOL 17-18 1 5 STEEL 2 GALVANIZ 3 0 CONCRET 4 0 OPEN HOL 24-25 1 6 STEEL 2 GALVANIZ 3 0 CONCRET 4 0 OPEN HOL 24-25 1 0 STEEL 3 0 CONCRET 4 0 OPEN HOL 24-25 1 0 STEEL 3 0 CONCRET 4 0 OPEN HOL 2 0 ALVANIZ 3 0 CONCRET 4 0 OPEN HOL 3 0 CONCRET 4 0 OPEN HOL 4 0 OPEN HOL 3 0 CONCRET 4 0 OPEN HOL 4 0 OPEN	EE 24 26 26 26 26 27 26 27 27 28 29 29 20 20 20 20 20 20 20 20 20 20	22 17-18	20-23 125 27-30	L DEPTH S FROM 10 10 10 10 10 10 10 26 L AGRAM BELC LINE. IND	SET AT - FEET         TO           -13         14-12           -21         22-25           29         30-33           O C ATION           OW SHOW DISTAI           DICATE NORTH BY	OF WE	ND TYPE LEA
20-23 ; [ F 2 ] S 25 26 ; [ F 2 ] S 25 26 ; [ F 2 ] S 30-33 ; [ F 2 ] S 30-33 ; [ F 2 ] S 30-31 ; [ F 2 ] S 30-31 ; [ F 2 ] S 30-32 ; [ F 2 ] S 30-32 ; [ F 2 ] S 30-33 ; [ F 2 ] S 30-34 ; [ F 2 ] S 30-35 ; [ F 30-35 ; [ F 30-3	ALTY 4 MIRERAL RESH 3 SULPHUR 24 ALTY 4 MIRERAL RESH 3 SULPHUR 23 ALTY 4 MIRERAL RESH 3 SULPHUR 23 ALTY 4 MIRERAL RESH 3 SULPHUR 24 ALTY 4 MIRERAL RESH 3 SULPHUR 24 ALTY 4 MIRERAL D PUMPING RATE D D PUMPING RATE C D	4         OPEN HOL           17-18         1           17-18         1           10         TSEL           2         GALVANIZ           3         CONCRETI           4         OPEN HOI           24-25         1           3         CONCRETI           4         OPEN HOI           2         GALVANIZ           3         CONCRETI           4         OPEN HOI           2         GALVANIZ           3         CONCRETI           4         OPEN HOI           2         GALVANIZ           3         CONCRETI           4         OPEN HOI           C         TOTATION           GPM            LEVELS DURING         2           2         3           30         MINUTCS           45         MATER AT           X         FEET           1         T	15         15           1620         24           15-16         26           15-16         26           15-16         26           100 PS         25           100 PS         25           100 PS         26	2 2 17-18 41/NS 10-17 12-18 10-17 12-18 10-17 12-18 10-17 12-18 10-17 12-18 10-17 12-18 10-17 12-18 10-17 10-1	20-23 125 27-30	L DEPTH S FROM 10 10 10 10 10 10 10 26 L AGRAM BELC LINE. IND	SET AT - FEET TO -13 14-17 -21 22-25 29 30-33 1 O C A T I O N OW SHOW DISTAI	OF WE	ND TYPE (E
20-23 ; F 2 S 25-26 ; F 2 S 25-26 ; F 2 S 30-33 ; F 2 S 30-33 ; F 2 S 30-33 ; F 2 S 30-34 ; F 2 S 30-35 ; F 2 S 30-37 ; F 2 S 50 S 1 S 1 S 1 S 1 S 1 S 1 S 1 S 1	ALTY     4     MIRERAL       RESH     3     □     SULPHUR       RESH     3     □     SULPHUR       ALTY     4     MIRERAL       RESH     3     □     SULPHUR       ALTY     4     MIRERAL       RESH     3     □       ALTY     4     MIRERAL       RESH     3     □       ALTY     4     MIRERAL       0     10     PUMPING       0     10     PUMPING       0     10     PUMPING       0     10     PUMPING       22.242     15     WATER L       24.244     15     MINUTES       24.245     15     MINUTES       33.641     PUMP INTAC       33.641     PUMP INTAC       34.647     PUMP INTAC       35.648     PUMP INTAC       36.641     PUMP INTAC	2         OPEN HOL           17-18         1         STELL           278         2         GALVANIZ           2         GALVANIZ         2           24-25         1         STELL           2         GALVANIZ         3           2         GALVANIZ         3           2         GALVANIZ         3           3         CONCRET         4           0         OPEN HOL         3           4         OPEN HOL         3           4         OPEN HOL         3           4         OPEN HOL         4           0         FEET         4           0         FEET         4           0         FEET         1           0         A3-A5         SECONMEN           0         FEET         1	15         60           15         15           26         26           26         26           15         15           16         15           10085         15           10085         15           100085         15           100085         15           100085         15           100085         100           100085         100           100085         100           100085         100           100085         100           100085         100           100085         100           100085         100           100085         100           100085         100           100085         100           100085         100           100085         100           100085         100           100085         100           100085         100           100085         100           100085         100           100085         100           10085         100           10085         100           10085	2 2 uns uns res ter ter ter	20-23 125 27-30	L DEPTH S FROM 10 10 10 10 10 10 10 26 L AGRAM BELC LINE. IND	SET AT - FEET         TO           -13         14-12           -21         22-25           29         30-33           O C ATION           OW SHOW DISTAI           DICATE NORTH BY	OF WE	ND TYPE (E
20-23 ; F 2 S 25-26 ; F 2 S 25-26 ; F 2 S 30-33 ; F 30-33 ; F 1 UMPING TEST METHOD 1 UMPING TEST METHOD 1 UMPING TEST METHOD 1 UMPING TEST METHOD 1 S 2 _	ALTY 4 □ MIRERAL RESH 3 □ SULPHUR <sup>24</sup> ALTY 4 □ MIRERAL RESH 3 □ SULPHUR <sup>25</sup> ALTY 4 □ MIRERAL RESH 3 □ SULPHUR <sup>25</sup> ALTY 4 □ MIRERAL MIRERAL 0 10 PUMPING RAT 0 10 PUMPING RAT 0 10 PUMPING RAT 10 PUMPING RAT 1	4         OPEN HOL           17-18         1           17-18         1           10         TSEL           2         GALVANIZ           3         CONCRET           2         GALVANIZ           3         CONCRET           4         OPEN HOI           2         GALVANIZ           3         CONCRET           4         OPEN HOI           4         OPEN HOI           2         GALVANIZ           3         CONCRET           4         OPEN HOI           2         GALVANIZ           10         OPEN           11         OPEN           12         OPEN           13         OHINUTES           14         OPEN           15         PECONNEG           16         OPEN           1	LE         19           17         12           18         24           24         24           24         24           15-165         15-165           10005         15           10005         15           10005         15           10005         10005           10005         10005           10005         10005           10005         10005           10005         10005	2 2 17-19 WIRS FES 57 FEET 62 UDV 66-49 GPM	20-23 125 27-30	L DEPTH S FROM 10 10 10 10 10 10 10 26 L AGRAM BELC LINE. IND	SET AT - FEET         TO           -13         14-12           -21         22-25           29         30-33           O C ATION           OW SHOW DISTAI           DICATE NORTH BY	OF WE	ND TYPE (E
20-23 ; F 2 S 25-26 ; F 2 S 25-26 ; F 2 S 30-33 ; F 2 S 30-33 ; F 2 S 30-33 ; F 2 S 30-34 ; F 2 S 30-35 ; F 2 S 30-37 ; F 2 S 50 S 1 S 1 S 1 S 1 S 1 S 1 S 1 S 1	ALTY 4 MIRERAL RESH 3 SULPHUR 24 ALTY 4 MIRERAL RESH 3 SULPHUR 25 ALTY 4 MIRERAL RESH 3 SULPHUR 25 ALTY 4 MIRERAL D TO PUMPING RATE RECOMMENDE D TO PUMPING RATE D TO PUMPING RATE D TO PUMPING RATE D TO PUMPING RATE D TO PUMPING D TO PUMPING RATE D TO PUMPING D TO PUMPING RATE D TO PUMPING RATE D TO PUMPING RATE D TO PUMPING D TO PUMPING RATE D TO PUMPING RATER D TO PUMPING	4         OPEN HOL           17-18         1         STEEL           17-18         1         STELL           217-18         2         GALVANIZ           2         GALVANIZ         3           24-28         1         STEEL           2         GALVANIZ         3           3         CONCRET         4           4         OPEN HOI         3           20         GALVANIZ         3           3         CONCRET         4           4         OPEN HOI         4           4         OPEN HOI         3           4         OPEN HOI         5           4         OPEN HOI         5           4         OPEN HOI         5           4         OPEN HOI         5           4         OPEN HOI         4           2         GANADONE         2           2         TEET         1         1           2         TEET         1         1           2         TEET         1         1           3         STAT         WATER AT         1           0         FEET         1 <td< td=""><td>LE         19           1520         24           1521         24           1524         24           1534         24           1534         25           10085         25           10085         25           10085         25           10085         25           10085         20           10155         60           10155         60           10155         60           10155         60           10155         60           10155         60           10155         100           10155         100           10155         100           10155         100           10155         100           10155         100</td><td>2 2 17-19 WIRS FES 57 FEET 62 UDV 66-49 GPM</td><td>20-23 125 27-30</td><td>L DEPTH S FROM 10 10 10 10 10 10 10 26 L AGRAM BELC LINE. IND</td><td>SET AT - FEET         TO           -13         14-12           -21         22-25           29         30-33           O C ATION           OW SHOW DISTAI           DICATE NORTH BY</td><td>OF WE</td><td>LL</td></td<>	LE         19           1520         24           1521         24           1524         24           1534         24           1534         25           10085         25           10085         25           10085         25           10085         25           10085         20           10155         60           10155         60           10155         60           10155         60           10155         60           10155         60           10155         100           10155         100           10155         100           10155         100           10155         100           10155         100	2 2 17-19 WIRS FES 57 FEET 62 UDV 66-49 GPM	20-23 125 27-30	L DEPTH S FROM 10 10 10 10 10 10 10 26 L AGRAM BELC LINE. IND	SET AT - FEET         TO           -13         14-12           -21         22-25           29         30-33           O C ATION           OW SHOW DISTAI           DICATE NORTH BY	OF WE	LL
20-23 ; F 2 S 25-24 ; F 2 S 25-24 ; F 2 S 30-33 ; _ F 2 S 30-33 ; _ F 2 S 30-34 ; _ F 1 S STATUS GIVE MATE FLOWING IS FLOWING IS FLOWING IS SHALLOW SO-S3 STATUS OF WELL	ALTY 4 □ MIRERAL RESH 3 □ SULPHUR <sup>24</sup> ALTY 4 □ MIRERAL RESH 3 □ SULPHUR <sup>25</sup> ALTY 4 □ MIRERAL RESH 3 □ SULPHUR <sup>25</sup> ALTY 4 □ MIRERAL RESH 3 □ SULPHUR <sup>25</sup> ALTY 4 □ MIRERAL D 10 PUMPING RATE D 50 PUMPING RATE D 60 PUMPING RATE 20 P	4         OPEN HOL           17-18         1           17-18         1           17-18         1           10         35 EEL           2         GALVANIZ           3         CONCRET           2         GALVANIZ           3         CONCRET           4         OPEN HOI           2         GALVANIZ           3         CONCRET           4         OPEN HOI           2         GALVANIZ           3         CONCRET           4         OPEN           0         FORM           4         OPEN           4         OPEN           4         OPEN           4         OPEN           4         OPEN           4         OPEN           1         OPEN           1         CONT           2         CONT           2         ASA           2         ASA           2         CONT           2         TEET           30         MINUTES           43-45         SECONNEN           43-45         SECONNEN	LE         19           1520         24           1521         24           1524         24           1534         24           1534         25           10085         25           10085         25           10085         25           10085         25           10085         20           10155         60           10155         60           10155         60           10155         60           10155         60           10155         60           10155         100           10155         100           10155         100           10155         100           10155         100           10155         100	2 2 17-19 WIRS FES 57 FEET 62 UDV 66-49 GPM	20-23 125 27-30	L DEPTH S FROM 10 10 10 10 10 10 10 26 L AGRAM BELC LINE. IND	SET AT - FEET         TO           -13         14-12           -21         22-25           29         30-33           O C ATION           OW SHOW DISTAI           DICATE NORTH BY	OF WE	ND TYPE (E
20-23 ; F 2 S 25-24 ; F 2 S 25-24 ; F 2 S 30-33 ; _ F 2 S 30-33 ; _ F 2 S 30-34 ; _ F 2 S 30-34 ; _ F 2 S 51 S 1	ALTY 4 MIRERAL RESH 3 SULPHUR 24 ALTY 4 MIRERAL RESH 3 SULPHUR 25 ALTY 4 MIRERAL RESH 3 SULPHUR 25 ALTY 4 MIRERAL RESH 3 SULPHUR 25 ALTY 4 MIRERAL D FULPHUR 25 ALTY 4 MIRERAL D FULPHUR 25 D FULPHUR 24 D FULPHUR 24 D FULPHUR 25 D FULPHUR 25 RECONSTRUCT D MATER SUPPLY C OBSENVATION WE S TEST HOLE MIRERAL D FULPHUR 25 D FULPHUR 25	4         OPEN HOL           17-18         1         STEEL           17-18         1         STELL           217-18         2         GALVANIZ           2         GALVANIZ         3           24-28         1         STEEL           2         GALVANIZ         3           3         CONCRET         4           4         OPEN HOI         3           20         GALVANIZ         3           3         CONCRET         4           4         OPEN HOI         4           4         OPEN HOI         3           4         OPEN HOI         5           4         OPEN HOI         5           4         OPEN HOI         5           4         OPEN HOI         5           4         OPEN HOI         4           2         GANADONE         2           2         TEET         1         1           2         TEET         1         1           2         TEET         1         1           3         STAT         WATER AT         1           0         FEET         1 <td< td=""><td>LE         19           1520         24           1521         24           1524         24           1534         24           1534         25           10085         25           10085         25           10085         25           10085         25           10085         20           10155         60           10155         60           10155         60           10155         60           10155         60           10155         60           10155         100           10155         100           10155         100           10155         100           10155         100           10155         100</td><td>2 2 17-19 WIRS FES 57 FEET 62 UDV 66-49 GPM</td><td>20-23 125 27-30</td><td>L DEPTH S FROM 10 10 10 10 10 10 10 26 L AGRAM BELC LINE. IND</td><td>SET AT - FEET         TO           -13         14-12           -21         22-25           29         30-33           O C ATION           OW SHOW DISTAI           DICATE NORTH BY</td><td>OF WE</td><td>ND TYPE (tr</td></td<>	LE         19           1520         24           1521         24           1524         24           1534         24           1534         25           10085         25           10085         25           10085         25           10085         25           10085         20           10155         60           10155         60           10155         60           10155         60           10155         60           10155         60           10155         100           10155         100           10155         100           10155         100           10155         100           10155         100	2 2 17-19 WIRS FES 57 FEET 62 UDV 66-49 GPM	20-23 125 27-30	L DEPTH S FROM 10 10 10 10 10 10 10 26 L AGRAM BELC LINE. IND	SET AT - FEET         TO           -13         14-12           -21         22-25           29         30-33           O C ATION           OW SHOW DISTAI           DICATE NORTH BY	OF WE	ND TYPE (tr
20-23 ;	ALTY       ALTY       MIRERAL         RESH       3       D SULPHUR       24         ALTY       MIRERAL       Internal         RESH       3       D SULPHUR       24         ALTY       MIRERAL       Internal       25         RESH       3       D SULPHUR       24         ALTY       MIRERAL       70       70         RESH       3       D SULPHUR       24         MIRERAL       25       WATER L       72         WATER LYCL       25       WATER L       26.2         20       22.24       15 MINUTES       26.2         33-41       PUMP INTAKE       74       74         TYPE       GPM       MIRERAL       74         MATER SUPPLY       2       OBSERVATION WE       3         TEST HOLE       GPM / FT. SPU       1       OWATER SUPPLY         1       GWATER SUPPLY       2       OBSERVATION WE       3         1       GWATER SUPPLY       2       OBSERVATION WE       3         1       GWATER SUPPLY       1       DOMESTIC       1	4     OPEN HOL       17-18     1     STELL       17-18     1     STELL       2     GALVANIZ     3       2     GALVANIZ       3     CONCRET       4     OPEN HOL       14-25     1       3     CONCRET       4     OPEN HOL       14-25     1       3     CONCRET       4     OPEN HOL       5     CONCRET       4     OPEN HOL       4     OPEN HOL       5     CONCRET       4     OPEN HOL       6     OPEN HOL       6     OPEN HOL       7     PUBLIC SUPPLY       10     ASAS       11     TEL       12     GALVANIZ       13     ASA       14     OPEN HOL       15     COMMERCIAL       16     MUNICIPAL       7     PUBLIC SUPPLY	LE 19 1224 19 1224 24 224 24 226 24 226 15-16 125 10 PUMPING 10 PUMPING	2 2 17-19 WIRS FES 57 FEET 62 UDV 66-49 GPM	20.23 125 27-30	L AGRAM BELL AGRAM BELL	SET AT - FEET         TO           -13         14-12           -71         22-25           79         30-33           O C ATION           OW SHOW DISTAI           DICATE NORTH BY	OF WE	ND TYPE (E
20-23 ;	ALTY       ALTY       MIRERAL         RESH       3       DSULPHUR       24         ALTY       MIRERAL       Internal         RESH       3       DSULPHUR       24         ALTY       MIRERAL       Internal       24         RESH       3       DSULPHUR       29         ALTY       MIRERAL       Internal       24         RESH       3       DSULPHUR       24         ALTY       MIRERAL       25       WATER         D       10       PUMPING       72         WATER LEVEL       25-24       15       MINUTES         20       JEET       20-762       762         336-41       PUMF INTAG       24-24       25-762         336-41       PUMF INTAG       24-25       762         336-41       PUMF INTAG       26-27       762         34-41       PUMF INTAG       24-24       26-27       762         34-41       PUMF INTAG       26-27       762       762         34-41       PUMF INTAG       26-27       762       762         350-41       PUMF INTAG       26-27       762       762         36	1     OPEN HOL       17-18     1     STELL       17-18     1     STELL       2     GALVANIZ     1       2     GALVANIZ       3     CONCRET       4     OPEN HOL       14-25     1       3     CONCRET       4     OPEN HOL       14-25     1       3     CONCRET       4     OPEN HOL       5     CONCRET       4     OPEN HOL       6     OPEN HOL       14-25     1       2     GALVANIZ       5     CONCRET       6     DURNING       7     PUBLICS       2     GALVANIZ       3     CONTROLO       2     GALVANIZ       3     CONTROLO       3     CONTROLO       3     CONTROLO       3     CONTROLO       4     CONTROLO       3     CONTROLO       4     CONTROLO       3     CONTROL	LE         19           18         24           24         24           26         24           19         15.16           100085         15           100085         15           100085         15           100085         15           100085         15           1018         20           102017         153           TEAR         2           100085         153           1050         153           1050         153           1050         153           1050         153           1050         153           1050         153           1050         153           1050         153           1050         153           1050         153           1050         153           1050         153           1050         153           1050         153           1050         153           1050         153           1050         153           1050         153           1050         153	2 2 17-19 WIRS FES 57 FEET 62 UDV 66-49 GPM	20.23 125 27-30	L DEPTH S FROM 10 10 10 10 10 10 10 26 L AGRAM BELC LINE. IND	SET AT - FEET 10 -12 -12 -12 -12 -12 -12 -12 -12	OF WE	ND TYPE (E
20-23 ;	ALTY 4 MIRERAL RESH 3 SULPHUR 24 ALTY 4 MIRERAL RESH 3 SULPHUR 24 ALTY 4 MIRERAL RESH 3 SULPHUR 27 ALTY 4 MIRERAL RESH 3 SULPHUR 27 ALTY 4 MIRERAL D 10 PUMPING RATI D BAILER D 10 PUMPING RATI D BAILER D 10 PUMPING RATI D BAILER D 10 PUMPING RATI D 0 PUMPING RATI	1         OPEN HOL           17-18         1         STELL           17-18         1         STELL           2         GALVANIZ         2         GALVANIZ           2         GALVANIZ         3         CONCRET           2         GALVANIZ         3         CONCRET           2         GALVANIZ         3         CONCRET           2         GALVANIZ         3         CONCRET           4         OPEN HOL         CONCRET         CONCRET           4         OPEN HOL         CONCRET         CONCRET           4         OPEN HOL         CONCRET         CONCRET           5         CONCRET         CONCRET         4           6         MUNUTCS         4         MATER AT           7         FEET         NATER AT         MATER AT           8         COMMERCIAL         NATER AT         MATER AT           9         MATER AT         MATER AT         MATER AT           1         MATER AT         MATER AT         MATER AT           5         COMMERCIAL         NUNFINISHED         1           5         COMMERCIAL         NUMICIPAL         9           6 <td>LE         19           15         24           24         24           26         24           27         24           28         24           15         15           10005         15           10005         15           10005         15           10005         15           10005         10           232.34         60           7421         2.0           252.34         2.0           10005         2.0           1005         2.0           1005         2.0           1005         1000           1005         1000           1005         1000           10000         1000           10000         1000</td> <td>2 2 17-19 WIRS FES 57 FEET 62 UDV 66-49 GPM</td> <td>20.23 125 27-30</td> <td>L AGRAM BELL AGRAM BELL</td> <td>SET AT - FEET 10 -12 -12 -12 -12 -12 -12 -12 -12</td> <td>OF WE</td> <td>ND TYPE (E</td>	LE         19           15         24           24         24           26         24           27         24           28         24           15         15           10005         15           10005         15           10005         15           10005         15           10005         10           232.34         60           7421         2.0           252.34         2.0           10005         2.0           1005         2.0           1005         2.0           1005         1000           1005         1000           1005         1000           10000         1000           10000         1000	2 2 17-19 WIRS FES 57 FEET 62 UDV 66-49 GPM	20.23 125 27-30	L AGRAM BELL AGRAM BELL	SET AT - FEET 10 -12 -12 -12 -12 -12 -12 -12 -12	OF WE	ND TYPE (E
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20-23 ;	ALTY <ul> <li>MIRERAL</li> <li>RESH</li> <li>SULPHUR</li> <li>MIRERAL</li> </ul> RESH <ul> <li>SULPHUR</li> <li>MIRERAL</li> <li>RESH</li> <li>SULPHUR</li> <li>MIRERAL</li> <li>PUMPING</li> <li>MIRERAL</li> <li>MIRERAL</li> <li>MIRERAL</li> <li>SULPHUR</li> <li>WATER LYCL</li> <li>WATER LYCL</li> <li>SULPHUR</li> <li>MIRERAL</li> <li>SULPHUR</li> <li>MIRERAL</li> <li>MIRERAL</li> <li>SULPHUR</li> <li>MIRERAL</li> <li>SULPHUR</li> <li>MIRERAL</li> <li>MIRERAL</li> <li>SULPHUR</li> <li>MIRERAL</li> <li>MIRERALY</li></ul>	1         OPEN HOL           17-18         1         STELL           17-18         1         STELL           2         GALVANIZ         2         GALVANIZ           2         GALVANIZ         3         CONCRET           2         GALVANIZ         3         CONCRET           2         GALVANIZ         3         CONCRET           2         GALVANIZ         3         CONCRET           4         OPEN HOL         CONCRET         CONCRET           4         OPEN HOL         CONCRET         CONCRET           4         OPEN HOL         CONCRET         CONCRET           5         CONCRET         CONCRET         4           6         MUNUTCS         4         MATER AT           7         FEET         NATER AT         MATER AT           8         COMMERCIAL         NATER AT         MATER AT           9         MATER AT         MATER AT         MATER AT           1         MATER AT         MATER AT         MATER AT           5         COMMERCIAL         NUNFINISHED         1           5         COMMERCIAL         NUMICIPAL         9           6 <td>LE 19 19 19 19 19 19 19 19 19 19 19 19 19</td> <td>2 2 17-18 WIRS 15-37 7EE7 42 UDV 42 UDV 42 00V 42 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>20-23 IBS 27-30 IN DIJ LOT L</td> <td>L AGRAM BELC INE IND</td> <td>SET AT - FEET </td> <td>A0           OF WE           NCES OF WEL           Y ARROW.           OC 4</td> <td>ND TYPE (E</td>	LE 19 19 19 19 19 19 19 19 19 19 19 19 19	2 2 17-18 WIRS 15-37 7EE7 42 UDV 42 UDV 42 00V 42 0 0 0 0 0 0 0 0 0 0 0 0 0	20-23 IBS 27-30 IN DIJ LOT L	L AGRAM BELC INE IND	SET AT - FEET 	A0           OF WE           NCES OF WEL           Y ARROW.           OC 4	ND TYPE (E
20-23 ;	ALTY 4 MIRERAL RESH 3 SULPHUR 24 ALTY 4 MIRERAL RESH 3 SULPHUR 27 ALTY 4 MIRERAL RESH 3 SULPHUR 27 ALTY 4 MIRERAL RESH 3 SULPHUR 27 ALTY 4 MIRERAL D 10 PUMPING RATI D BAILER D 0 10 PUMPING RATI D DAILER D 0 10 PUMPING RATI D DAILER D 0 10 PUMPING RATI D 0 PUMPING RATI	1         OPEN HOL           17-18         1         STELL           17-18         1         STELL           2         GALVANIZ         2         GALVANIZ           2         GALVANIZ         3         CONCRET           2         GALVANIZ         3         CONCRET           2         GALVANIZ         3         CONCRET           2         GALVANIZ         3         CONCRET           4         OPEN HOL         CONCRET         CONCRET           4         OPEN HOL         CONCRET         CONCRET           4         OPEN HOL         CONCRET         CONCRET           5         CONCRET         CONCRET         4           6         MUNUTCS         4         MATER AT           7         FEET         NATER AT         MATER AT           8         COMMERCIAL         NATER AT         MATER AT           9         MATER AT         MATER AT         MATER AT           1         MATER AT         MATER AT         MATER AT           5         COMMERCIAL         NUNFINISHED         1           5         COMMERCIAL         NUMICIPAL         9           6 <td>LE         19           19         12           24         24           26         24           15.16         5           10085         15           10085         15           10085         15           10085         15           10085         15           10085         15           10085         15           10085         15           1015         16           1025         16           1035         15           1045         16           105         15           105         15           105         15           105         15           105         15           105         15           105         15           105         15           105         15           105         15           105         15           105         15           105         15           106         15           107         15</td> <td>2 2 17-19 WIRS 15-37 7EET 42 UDV 45-49 GPM PLY</td> <td>DRILLERS REMAR</td> <td>L AGRAM BELC INC. IND</td> <td>SET AT - FEET </td> <td>A0           OF WE           NCES OF WEL           Y ARROW.           COC.44           COC.44</td> <td>ND TYPE (L</td>	LE         19           19         12           24         24           26         24           15.16         5           10085         15           10085         15           10085         15           10085         15           10085         15           10085         15           10085         15           10085         15           1015         16           1025         16           1035         15           1045         16           105         15           105         15           105         15           105         15           105         15           105         15           105         15           105         15           105         15           105         15           105         15           105         15           105         15           106         15           107         15	2 2 17-19 WIRS 15-37 7EET 42 UDV 45-49 GPM PLY	DRILLERS REMAR	L AGRAM BELC INC. IND	SET AT - FEET 	A0           OF WE           NCES OF WEL           Y ARROW.           COC.44           COC.44	ND TYPE (L
20-23 ;	ALTY <ul> <li>MIRERAL</li> <li>RESH</li> <li>SULPHUR</li> <li>MIRERAL</li> </ul> RESH              SULPHUR <li>MIRERAL</li> RESH              SULPHUR             ALTY <ul> <li>MIRERAL</li> </ul> RESH <ul>             SULPHUR             Zal             ISULPHUR </ul> RESH <ul>             SULPHUR             Zal             ThERAL </ul> DAILTY <ul>             MIRERAL </ul> RESH <ul>             SULPHUR             Zal             MIRERAL </ul> DAILTY <ul>             MIRERAL             Zal             MIRERAL </ul> TYPE <ul>             Zal             Subritinal             Com             Subritinal             ORMARY (ARVION WE             Subritinal             I ORTARY (CONVEN             Subritinal             OTHER </ul> 1         CABLE TOOL           2         ROTARY (CONVEN              3          IRRIGATION           4 <ul>             RATARY (CONVEN             Sur</ul>	1         OPEN HOL           17-18         1         STELL           17-18         1         STELL           2         GALVANIZ         2         GALVANIZ           2         GALVANIZ         3         CONCRET           2         GALVANIZ         3         CONCRET           2         GALVANIZ         3         CONCRET           2         GALVANIZ         3         CONCRET           4         OPEN HOL         CONCRET         CONCRET           4         OPEN HOL         CONCRET         CONCRET           4         OPEN HOL         CONCRET         CONCRET           5         CONCRET         CONCRET         4           6         MUNUTCS         4         MATER AT           7         FEET         NATER AT         MATER AT           8         COMMERCIAL         NATER AT         MATER AT           9         MATER AT         MATER AT         MATER AT           1         MATER AT         MATER AT         MATER AT           5         COMMERCIAL         NUNFINISHED         1           5         COMMERCIAL         NUMICIPAL         9           6 <td>LE         19           18         12           18         24           24         24           24         24           24         24           15         15           10005         15           10007         12           10008         22           10000         22           10000         22           10000         22           10000         22           10000         10           10000         10           10000         10           10000         10           10000         10           10000         10           10000         10           10000         10           10000         10           10000         10           10000         10           10000         10           10000         10           10000         10           10000         10           10000         10           10000         10           10000         10           100000         10           &lt;</td> <td>2 2 17.118 17.15 165.37 7FEET 62 0DV 166.49 6PM</td> <td>DRILLERS REMAR</td> <td>L AGRAM BELC INC. IND</td> <td>SET AT - FEET 10 </td> <td>A0           OF WE           NCES OF WEL           Y ARROW.           COC.44           COC.44</td> <td>ND TYPE (E</td>	LE         19           18         12           18         24           24         24           24         24           24         24           15         15           10005         15           10007         12           10008         22           10000         22           10000         22           10000         22           10000         22           10000         10           10000         10           10000         10           10000         10           10000         10           10000         10           10000         10           10000         10           10000         10           10000         10           10000         10           10000         10           10000         10           10000         10           10000         10           10000         10           10000         10           10000         10           100000         10           <	2 2 17.118 17.15 165.37 7FEET 62 0DV 166.49 6PM	DRILLERS REMAR	L AGRAM BELC INC. IND	SET AT - FEET 10 	A0           OF WE           NCES OF WEL           Y ARROW.           COC.44           COC.44	ND TYPE (E
20-23 ;	ALTY 4 MIRERAL RESH 3 SULPHUR 24 ALTY 4 MIRERAL RESH 3 SULPHUR 27 ALTY 4 MIRERAL 20 TO PUMPING RATE D PUMPING 20 TO PUMPING RATE 22-24 IS MIRERAL 22-24 IS MIRUTES 22-24 IS MIRUTES 22-24 IS MIRUTES 22-24 IS MIRUTES 22-24 IS MIRUTES 22-24 IS MIRUTES 24-24 IS MIRUTES 25-24 IS MIRUTES 26-24 IS MIRUTES 26-2	1         OPEN HOL           17-18         1         STELL           17-18         1         STELL           2         GALVANIZ         2         GALVANIZ           2         GALVANIZ         3         CONCRET           2         GALVANIZ         3         CONCRET           2         GALVANIZ         3         CONCRET           2         GALVANIZ         3         CONCRET           4         OPEN HOL         CONCRET         CONCRET           4         OPEN HOL         CONCRET         CONCRET           4         OPEN HOL         CONCRET         CONCRET           5         CONCRET         CONCRET         4           6         MUNUTCS         4         MATER AT           7         FEET         NATER AT         MATER AT           8         COMMERCIAL         NATER AT         MATER AT           9         MATER AT         MATER AT         MATER AT           1         MATER AT         MATER AT         MATER AT           5         COMMERCIAL         NUNFINISHED         1           5         COMMERCIAL         NUMICIPAL         9           6 <td>LICENCE NUMBER 24 26 26 27 27 28 29 20 20 20 20 20 20 20 20 20 20</td> <td>2 2 17.118 17.15 165.37 7FEET 62 0DV 166.49 6PM</td> <td>DRILLERS REMAR</td> <td>L AGRAM BELC INC. IND</td> <td>SET AT - FEET 10 </td> <td>A0           OF WE           NCES OF WEL           Y ARROW.           COC.44           COC.44</td> <td>ND TYPE LE</td>	LICENCE NUMBER 24 26 26 27 27 28 29 20 20 20 20 20 20 20 20 20 20	2 2 17.118 17.15 165.37 7FEET 62 0DV 166.49 6PM	DRILLERS REMAR	L AGRAM BELC INC. IND	SET AT - FEET 10 	A0           OF WE           NCES OF WEL           Y ARROW.           COC.44           COC.44	ND TYPE LE

MINISTRY OF THE ENVIRONMENT COPY

<b>(2)</b> ~		MINISTRY ( The Ontario		NVIRONMEN Resources				-  -	
Ontario	WAT	ER W	EL	LR	EC	ORE	3/8	<b>9</b>   5	a
COUNTY OR DISTRICT	1. PRINT ONLY IN SPACES PR 2. CHECK 🛛 CORRECT BOX V	HERE APPLICABLE	1)	151484	40 -	15007	₽ <b>Ř</b> F	. 1 1 1	1 06
OWNER (SURNAME FIRST)	Zallo	ISHIP. BOROUGH. CITY, TOWN	1	3	S CON	BLOCK, TRACT, SURVE	Com	RE	023
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(31) 10003K102	0135215			11.1			<u>_</u>		
WATER FOUND						) OF OPENING NO.)	31-33 DIAMETER		.ENGTH 39-40
		MATERIAL THICKN	ESS FROM	10 13-16		HAL AND TYPE	DE OF	INCHES PTH TO TOP SCREEN	41-44 80
15-18 1 GRESH 3 2 SALTY 4		CONCRETE	80	20	61	PLUGGING	& SEALIN	G RECO	RD
20-23 1 C FRESH 3 2 C SALTY 4	SULPHUR 24	1 🗍 STEEL 19 2 🗍 GALVANIZED		20-23	FROM	10	ATERIAL AND TY		NT GROUT. CKER, ETC >
25-28 1 _ FRESH 3 2 _ SALTY 4	U SULPHUR 29	3 CONCRETE 4 COPEN HOLE 1 STEEL 26	20	0/35	10-1				
30-33 3 🗍 FRESH 3 2 🗌 SALTY 4	□ SULPHUR 3460 □ MINERAL	Z 🗍 GALVANIZED 3 🗍 CONCRETE 4 🗌 OPEN HOLE			26-2	9 30-33 80			
71 PUMPING TEST METHOD	0009	11-14 DURATION OF PUMPING	) 17-18		L	CATION O	F WELL	1654	2
STATIC LEVEL END OF PUMPING	WATER LEVELS DURIN	I PUMPING 2 RECOVER	MIN5	IN DIAC LOT LI	RAM BELO	W SHOW DISTANCES CATE NORTH BY ARI	OF WELL FRO	M ROAD A	ND
F020 090	15 MINUTES 30 MINUT 0906-24 FEET 0900	29-31 0 32-34				Trovel	willer"		
C IF FLOWING, SI GIVE RATE	-41 PUMP INTAKE SET AT	WATER AT END OF TEST	42				- uni st		
RECOMMENDED PUMP TYPE	RECOMMENDED 4:	PLET RECOMMENDED PUND DO	46-49 GPM				1		
50-53 OOO.	GPM. / FT. SPECIFIC CAPAC	ITY		``					
STATUS	EST HOLE 7	ABANDONED, INSUFFICIENT : ABANDONED, POOR QUALITY UNFINISHED	SUPPLY	$\mathcal{N}$					r
55-56 1 🗗	ECHARGE WELL								1
	RRIGATION 7 D PUB	LIC SUPPLY			,	2.	85mi. 🔿	<b>`</b>	
57							1 1	\	
	ABLE TOOL OTARY (CONVENTIONAL) OTARY (REVERSE)	6 D BORNING 7 D DIAMOND 8 D JETTING					1 Le	tr-	-
	OTARY (AIR)	9 DRIVING	D	RILLERS REMARKS			-+-		_
Have hor	re Drilling	. LAD LICENCE NUM 255	2		58 CON	2557	"0°5" 0	8 7 5	63-68 80
ONTRACTOR	4218 Stal	E. Otta	- L	DATE OF INSPECT	ION	INSPECTOR	K.		
NAME OF DRILLEF OR BORER		LICENCE NUM	2.	REMARKS:				Ρ	
		SUBMISSION DATE	2. ,,75	5			1911 J. A	w	I .
MINISTRY OF TI	HE ENVIRONMEN	T COPY						FORM 7	MOE 07-091

		TOWNSHI	RE APPLICABLE		15 AGE 3	1 <b>6</b> 052	1	IN BLOCK, TRACT.	14		•	022
Carlet	IRST) 28-47		DUCESS	in faction 1				.5		ATE COMPL		48-53
3	Investors Corr		934 5a	diler [	TES.	Ottawa,	Ont:	K2B 5H7		DAY 13		YR.77
21)	T 20NE EASTING 10 12 12	049	18	399	Ą	2550	4				1 1 1	
	T	OG OF OV	ERBURDEN		DROC	( MATERIA					DEPTH	· FEET
ENERAL COLOUR	CONMON MATERIAL		OTHER MAT	ERIALS			GENE	RAL DESCRIPTIC	DN		FROM	то
brown	sand	- c]	lay & bou	lders		fill	<b></b>					7
black	muck			-		soft					7	9
grey	hardpan	b	oulders			pack					9	26
grey	limestone					medi						43
grey	sandstone					hard					43	178
								<u> </u>		يو مر ا		
2175 2 2 15-18 1 C	KIND OF WATER FRESH 3 SULPHUR <sup>14</sup> SALTY 4 MINERAL FRESH 3 SULPHUR <sup>19</sup>	INSIDE DIAM INCHES 61 <sup>10-11</sup> 1 2	CONCRETE	WALL THICKNESS INCHES	DEP FROM	TH - FEET TO 0028 13-16	SCRE	IST OF OPENING TNO.1 ERIAL AND TYPE P111G	GING P		INCHES	41-44 FEET
10-13 1 2 2175 2 2 15-18 1 2 20-23 1 1 25-28 1 2 25-28 1 2 30-33 1 2 2 1 UMPING TEST ME 1 □ PUMP STATIC LEVEL 19-2	FRESH       3       SULPHUR       14         SALTY       4       MINERAL         FRESH       3       SULPHUR       19         SALTY       4       MINERAL         FRESH       3       SULPHUR       19         SALTY       4       MINERAL         FRESH       3       SULPHUR       24         SALTY       4       MINERAL         FRESH       3       SULPHUR       24         SALTY       4       MINERAL         FRESH       3       SULPHUR       24         SALTY       4       MINERAL       4         Y       4       MINERAL       4         BAILER       00       7       7         WATER LEVEL       25       7       8         Y       22-24       15 <minus< td="">       7         0       65       7       4</minus<>	нылы наснез паснез 106 17-18 24-25 4 24-25 4 24-25 4 24-25 5 с 15 с с 15 с с 15 с р 10 17-18 2 2 2 2 2 2 2 2 2 2 2 2 2	MATERIAL		DEP FROM 0 28 17-10 MINS 53-37 FEET	10 10 10 10 10 10 10 10 10 10	L GRAM BEL	ERIAL AND TYPE	N OF	E SEALI RIAL AND T	NG RECO	41-44 FEET RD NT GROUT. CKER. ETC.)
2175 2 2 15-18 1 [ 20-23 1 ] 20-23 1 ] 2	FRESH     3     SULPHUR     14       SALTY     4     MINERAL       FRESH     3     SULPHUR     19       SALTY     4     MINERAL       FRESH     3     SULPHUR       SALTY     4     MINERAL       THOD     10     FUMPIKG RATE       2     BAILER     0       JO     FEET     0       JACT     15     MINUTES       24     38-41     FUMP INTAL       38-41     FUMP INTAL       SALTY     4     MINERAL	INSIDE DIAM INCHES 06 17-10 2 24-25 1 24-25 1 2 24-25 1 2 24-25 1 2 24-25 1 2 2 2 2 2 2 2 2 2 2 2 2 2	MATERIAL  MATERIAL  MATERIAL  ANTERIAL  GALVANIZED  GALVANIZED  GALVANIZED  GALVANIZED  GALVANIZED  GALVANIZED  CONCRITE  OPEN HOLE  OFEN HOLE  I  DURATION OF FL  CONCRITE  OFEN HOLE  I  DURATION OF FL  I  CONCRITE  I  DURATION OF FL  I  CONCRITE  I  DURATION OF FL  I  CONCRITE  I  CONCRITE I  CONCRI	WALL THICKASS INFING IBB PUMPING RECOVERS PUMPING RECOVERS 2 CLOI PO 5 FICIENT SUPI	DEP FROM 0 28 17-19 41NS 535-37 FEET 42 7DV 66-49 GPM	14 - FEET TO PO28 <sup>13-16</sup> 28 <sup>13-16</sup> 20-23 CM78 27-30 IN DIA	L GRAM BEL	Top         Top           10-13         14-17           10-20         22-25           6-29         30-33           OCATION         0.000           .00CATION         .000	N OF	E SEALI RIAL AND T	NG RECO	FEET RD NT GROUT. CKER. ETC.)
10-13 1 2 2175 2 2 15-18 1 2 20-23 1 2 2	FRESH       3       SULPHUR       14         SALTY       4       MINERAL         FRESH       3       SULPHUR       19         SALTY       4       MINERAL         FRESH       3       SULPHUR       19         SALTY       4       MINERAL         FRESH       3       SULPHUR       24         SALTY       4       MINERAL         FRESH       3       SULPHUR       24         SALTY       4       MINERAL         FRESH       3       SULPHUR       24         SALTY       4       MINERAL         MINERAL       10       PUMPING         WATER LEVEL       25       WATER SUPPLY         20       A       FEET         30       TEST HOLE       9         10       DOBESTIC       2         21       DOBESTIC       2         21       DOMESTIC       2		MATERIAL           Naterial           GALVANIZED           GALVANIZED           CONCRETE           STEEL           GALVANIZED           GALVANIZED           GALVANIZED           GALVANIZED           GOPEN HOLE           STEEL           GALVANIZED           GORN HOLE           OPEN HOLE           INDURATION OF PL           STECOMENDED           INDURATION           INDURATION           STECOMENDED           INDURATION           INDURATION	WALL           THICKASS           INCRES           IN	DEP FROM 0 28 17-19 41NS 535-37 FEET 42 7DV 66-49 GPM	14 - FEET TO PO28 <sup>13-16</sup> 28 <sup>13-16</sup> 20-23 CM78 27-30 IN DIA	L GRAM BEL	Top         Top           10-13         14-17           10-20         22-25           6-29         30-33           OCATION         0.000           .00CATION         .000	N OF	E SEALI RIAL AND T	NG RECO	41-44 FEET RD NT GROUT. CKER. ETC.)
10-13 1 2 2 175 2 2 15-18 1 2 2 0-23 1 2 0 0-33 1 2 0 0-33 1 2 0 0-33 1 0 0 0-53 1 0 0 0-5 0 0-5	FRESH       3       SULPHUR       14         SALTY       4       MINERAL         FRESH       3       SULPHUR       19         SALTY       4       MINERAL         FRESH       3       SULPHUR       19         SALTY       4       MINERAL       17         FRESH       3       SULPHUR       24         SALTY       4       MINERAL       17         FRESH       3       SULPHUR       24         SALTY       4       MINERAL       16         FRESH       3       SULPHUR       24         SALTY       4       MINERAL       17         FRESH       3       SULPHUR       24         SALTY       4       MINERAL       17         THOD       10       FUNPHUR       24         SALTY       22:24       15       MINERAL         21       22:24       15       MINERAL         22:24       15       MINERAL       24:         21:22:24       15       MINERAL       24:         22:24       15       MINERAL       24:         23:41       PUMP INTAL       24:		MATERIAL  MATERIAL  MATERIAL  STEEL  GALVANIZED  GALVA	WALL THICKASS 100H5 188 188 188 188 188 100H1 188 100H1 188 100H1	0EP FROM 0 28 17-18 17-18 17-18 17-18 17-18 17-18 17-18 17-18 18-19 18-19 17-18 18-19 19-1	IN         DIA           LOTS         27-30	GRAM BELL RE INI	ERIAL AND TYPE  PLUGG SET AT - FEET  10 10-13 14-12 42-23 30-33 COCATION OW SHOW DIST DICATE NORTH  DEFAULTION	N OF ANCES OF BY ARROW		NG RECO	
10-13 1 2 2175 2 2 15-18 1 2 20-23 1 1 2 0 20-23 1 2 2 0-23 1 2 2 0 2 0 2 0-23 1 2 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2	SALTY       4       NINERAL         SALTY       4       NINERAL         SALTY       4       NINERAL         FRESH       3       SULPHUR       19         SALTY       4       MINERAL         FRESH       3       SULPHUR       24         SALTY       4       MINERAL       34         FRESH       2       SULPHUR       24         SALTY       4       MINERAL       34         ThOD       10       PUMPING       24         Water Level       25       700         SULPHUR       74       10       74         DGE       FEET       74       74         SULPHUR       74       74       74         SUPOP       54 <td>INSIDE DIAM INSIDE DIAM INCHES INCHE</td> <td>MATERIAL  MATERIAL  MATERIAL  ATERIAL  ATERIAL  GALVANIZED  CONCRITE  GALVANIZED  GALVANIZED  GALVANIZED  GALVANIZED  CONCRITE  OPEN HOLE  GALVANIZED  CONCRITE  OPEN HOLE  GALVANIZED  CONCRITE  CONCRITE CONCRITE  CONCRITE CONCRIT</td> <td>WALL           THICKASS           INCRES           IN</td> <td>0EP FROM 0 28 17-18 411NS 55-37 FEET 42 42 42 42 42 42 42 42 42 42 42 42 42</td> <td>IN         DIA           LOTZ         27-30</td> <td>GI DEPTH FROM 2. C GRAM BEL NE INI S</td> <td>ERIAL AND TYPE  PLUGG SET AT - FEET  10 10-13 14-12 42-23 30-33 COCATION OW SHOW DIST DICATE NORTH  DEFAULTION</td> <td>N OF ANCES OF BY ARROW L R 33-62 DATE</td> <td></td> <td>NG RECO</td> <td></td>	INSIDE DIAM INSIDE DIAM INCHES INCHE	MATERIAL  MATERIAL  MATERIAL  ATERIAL  ATERIAL  GALVANIZED  CONCRITE  GALVANIZED  GALVANIZED  GALVANIZED  GALVANIZED  CONCRITE  OPEN HOLE  GALVANIZED  CONCRITE  OPEN HOLE  GALVANIZED  CONCRITE  CONCRITE CONCRITE  CONCRITE CONCRIT	WALL           THICKASS           INCRES           IN	0EP FROM 0 28 17-18 411NS 55-37 FEET 42 42 42 42 42 42 42 42 42 42 42 42 42	IN         DIA           LOTZ         27-30	GI DEPTH FROM 2. C GRAM BEL NE INI S	ERIAL AND TYPE  PLUGG SET AT - FEET  10 10-13 14-12 42-23 30-33 COCATION OW SHOW DIST DICATE NORTH  DEFAULTION	N OF ANCES OF BY ARROW L R 33-62 DATE		NG RECO	
10-13 1 8 175 2 0 15-18 1 0 2 0 2 0-23 1 0 2 0 2 0-23 1 0 2 0 2 0 2 0-23 1 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2	FRESH       3       SULPHUR       14         SALTY       4       MINERAL         FRESH       3       SULPHUR       19         SALTY       4       MINERAL         FRESH       3       SULPHUR       19         SALTY       4       MINERAL       17         FRESH       3       SULPHUR       24         SALTY       4       MINERAL       17         THOD       10       FUNFILK       24         BAILER       00       12       34         WATER LEVEL       22       34       17         SALTY       22       MATER L       24         BAILER       00       10       110         SALTY       21       SALTY       18         BAILER       00       17       54 <td< td=""><td>INSIDE     INSIDE     INA     INA</td><td>MATERIAL  MATERIAL  MATERIAL  ATERIAL  ATERIAL  GALVANIZED  CONCRITE  GALVANIZED  GALVANIZED  GALVANIZED  GALVANIZED  CONCRITE  OPEN HOLE  GALVANIZED  CONCRITE  OPEN HOLE  GALVANIZED  CONCRITE  CONCRITE CONCRITE  CONCRITE CONCRIT</td><td>WALL THICKASS INCRES</td><td>0EP FROM 0 28 17-1</td><td></td><td>GI DEPTH FROM 2. C GRAM BEL NE INI S</td><td>ERIAL AND TYPE</td><td>N OF ANCES OF BY ARROW L R 33-62 DATE</td><td></td><td>NG RECO</td><td></td></td<>	INSIDE     INSIDE     INA     INA	MATERIAL  MATERIAL  MATERIAL  ATERIAL  ATERIAL  GALVANIZED  CONCRITE  GALVANIZED  GALVANIZED  GALVANIZED  GALVANIZED  CONCRITE  OPEN HOLE  GALVANIZED  CONCRITE  OPEN HOLE  GALVANIZED  CONCRITE  CONCRITE CONCRITE  CONCRITE CONCRIT	WALL THICKASS INCRES	0EP FROM 0 28 17-1		GI DEPTH FROM 2. C GRAM BEL NE INI S	ERIAL AND TYPE	N OF ANCES OF BY ARROW L R 33-62 DATE		NG RECO	

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Ontario Env	vironment				1734		lana Barin Jinan I			
COUNTY OR DISTRICT	2. CHECK 🗵 CO	N SPACES PROVIDED RRECT BOX WHERE APPLICABLE			175.	+ 5	15.002		Ļ	
attaina.	C.O.F.	TOWASTIP, OROUGH. CITY	TOWN, VILLAGE			CON	BLOCK. TRACT. SURVEY	ETC.		LOT 25-2
		L II		<b></b>			<u>, n.,.</u>	DATE COMPLET	ED DE	<b>U2</b>
		HING , 47	600	RC. ELEN		-nt	BASIN CODE	<b>₀0</b> 9	Marca	YR XA
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GENERAL COLOUR	NOST	OG OF OVERBURDEN		ROCK M	ATERIAL		<u>i</u>	~	DEPTH	FEET
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WATER FOUND AT - FEET		51 CASING & O	PEN HOLE	DEPTH - FE		A SIZE (S)	OF OPENING 31-	13. 13.	34-38 LI	ENGTH 39-4
10-13 1	SALTY 4 I MINERAL	DIAM MATERIAL INCHES 06.1041 1 DETEL 12	THICANESS INCHES	RUM	10	MATERI	AL AND TYPE	DEPT OF S	H TO TOP	41-44 3
	FRESH 3 □ SULPHUR	CONCRETE	188	0 600			<u>`</u>			FEET
2 🗆	SALTY $4 \square$ MINERAL FRESH $3 \square$ SULPHUR $24$	V - Срем ноце 17-18 I - Steel 19		-4-	20-23	DEPTH SE	PLUGGING	ERIAL AND TYPE		T GROUT
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2 0	FRESH 3 D SULPHUR 29 SALTY 4 D MINERAL	4 OPEN HOLE 24-25 1 STEEL 26 2 GALVANIZED			27-30	18-2				
30-33 1 🗆 2 🗍	FRESH 3 [] SULPHUR 34 60 SALTY 4 [] MINERAL	3 CONCRETE 4 COPEN HOLE				26-29	30-33 60			
UNPING TEST MET	HOD TO PUNPING RATE	11-14 DURATION OF PUM				1.0	CATION OF			
	WATER LEVEL 25		00 17-18 MINS				SHOW DISTANCES O			
LEVEL	END OF WATER L PUMPING 22-24 IS MINUTES	2' 🗌 RE			LOT LINE	INDIC	ATE NORTH BY ARRO	W.	ROAD AN	b
	014 FEET 012 FEE		35-37	1	XN.	1	f	thine		
IF ROWING. GIVE RATE	38-41 PUMP INTAKE	SET AT WATER AT END OF	TEST 42			N		270		
TP-21	PUMP	43-45 RECOMMENDED	2 LOUDY 46-49						T	
SHALLOW	DEEP SETTING O	23 FEET RATE 0001	7 дрм		R	1	ډ		4	*
FINAL	ATER SUPPLY	S 🗌 ABANDONED, INSUFFI			* ·	1500	* *	14	5	11.7
STATUS OF WELL	2 GBSERVATION WEL	L 6 🖸 ABANDONED, POOR QU 7 🗍 UNFINISHED	ALITY				1 1	131	•	· 1
55	DOMESTIC	5 COMMERCIAL			1 	1		E		-
WATER OS	2 STOCK	। MUNICIPAL १ 🔲 PUBLIC SUPPLY न क्रु				h i			· . ^	
	A D INDUSTRIAL	COLING OR AIR CONDITIO			с. I	ž	ett i	1 .		
METHOD	7 ' BLE FOOL 2 ROTARY (CONVENTI	6 BORING		1.				·	· . ,	
OF	POTARY (CONVENT)     POTARY (REVERSE)     POTARY (AIR)				(		۲.	•		
	S AIR PERCUSSION			DRILLERS	REMARKS			1		
NAME OF WELL CO		DEA	E NUMBER		ce /		RACTOR \$ 59-62 DATE	209	80	63-68 80
ADDRESS CALLER	me loger	<del>p</del> o. 15	12		OF INSPECTION		INSPECTOR			
NAME OF DRILLER	OR BORER	LICENC	E NUMBER		RKS		m			
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SIGNATURE OF CO	NTRACTOR	SUBMISSION DATE		OFFICE						

Ministry of the Environm	ENT	CES PROVIDED		15173	<b>VEL</b>	<u>.L R</u> E	.CO	RD
R DISTRICT	2 CHECK CORRECT	TOWASTIP ORQUER			CON . BLOCK	14 IS		101 15-11 12/
Tura Ca	leton	ADDRESS	and	<u></u>		DATE CON	PLETED	1.13 1.80
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		OF OVERBURD		OCK MATERIA		CRIPTION	EROM	FEET
L COLOUR CO	MINON MATERIAL		MATERIALS 1				0	8
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WATER	RECORD	51 CASING	S & OPEN HOL	ERECORD	Z ISLOT NO ,	PENING 31-33 01	AMETER 34-38	LENGTH 39-4
FEET	D OF WATER	INSIDE DIAN MATERIA INCHES	INCHES	DEPTH - FEET	HATERIAL A	IND TYPE	DEPTH TO TO	
2 2 SAL	· · ·	61 10 SHEL	185	10 20		PLUGGING & SE	ALING REC	CORD
2 🗆 SAL	SH 3 [] SULPHUR 19	4 13-10 PEN H		20				ENENT GROUT
1 D SAL	SH 3 SULPHUR 24 TY 4 MINERAL	1 GALVAN 1 CONCR 4 OPEN 1	ITE	1.1	2 10-13	1. 14-12		
I D SAL	SH 3 [] SULPHUR 25 TY 4 [] MINERAL	24-25 1 🗍 STEEL 2 🗍 GALVAN	26 NIZED	-1.	26-29	22-25		
30-33 1 C FRE 2 C SAL	SH 3 () SULPHUR 344	1 CONCR 4 {} OPIN +					<b></b>	
UMPING TEST METHOD	IO PUMPING RATE	- GPM		118		HOW DISTANCES OF W		D AND
STATIC WA	TER LEVEL 25 END OF WATER L	EVELS DURING	I DUMPING 2. AECOVERY 11NUTES 60 MINUTE	LO	T LINE. INDICAT	E NORTH BY ARROW.		
10-21	22-24 IS MINUTES 24-2 14 rest 12 res	29.31		11 1/1	1. 1		line	
IF MOWING GIVE RATE		SET AT WATER	CLEAR 2 DOLOU	42 DY	m		· · · ·	-
RECOMMENDED PUMP TY	PE RECOMMENDED		MENDED 4	6-49 GPM	2		8	40
BHALLOW C	DEEP SETTING	¢-5				1	14 1=	* 11.
FINAL STATUS	1 D WATER SUPPLY 2 D OBSERVATION WE	LL D AUANDONE	D. INSUFFICIENT SUPP D POOR QUALITY			La Chiller (Takan	12	·
OF WELL	3 TEST HOLE				4.4		E	1
WATER	2 DISTOCK	S COMNERCIAL MUNICIPAL PUBLIC SUPPL	, .,		•   · · ·	1.1		
USE	INDUSTRIAL	COOLING OR A	NOT USED			JH 1	. a S.	
METHOD	I D ROTARY (CONVER	• [] 8 NTIONAL) 7 [] 0	AMOND	1 1 1				ia a trij
OF	4 C ROTARY (REVERS		ETTING	1. 2.		5.5		ť . "•
DRILLING	S AIR PERCUSSION	· · · · · · · · · · · · · · · · · · ·	LICENCE NUMBER	DRILLERS R		RACTOR \$ 55-62 UAN	0003	80
DRILLING			1 .	SOURCE	. 1		LUUV	
DRILLING	ine Gyr	ft.	1517		INSPECTION	INSPECTOR		

Print only in space	Environment			Municipality C	
	with a checkmark, where applicab	le. 11	1531693		
County or District	Clata	Township/Borough/City/		Con block tract sur	vey, etc. Lot
		Address	al Ot	Date complete	d 25 10 C
21		Northing		C Basin Code ii	
	LOG OF	OVERBURDEN AND BED	ROCK MATERIALS (see instruc	tions)	Depth - fee
General colour	Most common material	Other materials	Gener	ral description	From 1
0.	gravel				3 27
yey	Sandstore				
				<u> </u>	
31					
	RECORD 51			of opening 31-33 Diamet	er <sup>34-38</sup> Length
Water found at - feet	Kind of water diam	Wali Material thickness	Depth - feet	No.)	inches
10-13 1	Fresh <sup>3</sup> Sulphur <sup>14</sup> Calls I Minerals	1 Steel 12 2 Galvanized	Depth - feet         X         (Slot F           From         To         Mater           13-16         X         Mater	ial and type	Depth at top of scre
16.19	Saty of Gas Fresh 3 □/Sulphur 19 64 0/Minerals	3 □ Concrete 4 □ Open hole	0 22		fee
20.22	Salty) & Gas 17-18 17-18	5 Plastic 100	20-23	PLUGGING & SEALI	Abandonment
2	Salty 6 Gas 4 3/	3 □ Concrete 4 2 Open hole 5 □ Plastic	0 20 Depth se	10	(Cement grout, bentonite
1 1	Salty 6 Gas	1 Steel 26 2 Galvanized	27-30 27-30 18-21	2.2 CPMO.	tyout_
	Fresh <sup>3</sup> □ Sulphur <sup>34</sup> <sup>60</sup> 4 □ Minerals 5 Satty <sup>6</sup> □ Gas	3 Concrete 4 1/27 Open hole 5 Plastic	20 220 2629	30-33 80	<u> </u>
Pumping test m					
י Pump 2 [	Bailer /O GPM	Hours Mins	In diagram below sh	OCATION OF WELL now distances of well from	n road and lot line
. Static level	Water levels during 1 15 minutes 30 minutes 30 minutes 31	□ Pumping         2         ₽ Recovery           45 minutes         60 minutes         35.37	Indicate north by an	row.	
19-21 19-21 19-21 19-21 If flowing give re	120 teet 30 feet 30 fee	7. 7.	31/		h
If flowing give ra	ate <sup>38-41</sup> Pump intake set at GPM fee	Water at end of test 42 et Clear Cloudy	1 4		/
Recommended p	ump type Recommended <sup>43-45</sup> pump setting /2 0 fee	Hecominended			
50-53	/ <b>2</b> 0 tee	ет // GPM			
FINAL STATUS		supply <sup>9</sup> Unfinished <sup>10</sup> Replacement well			
<ul> <li><sup>2</sup> Observation</li> <li><sup>3</sup> Test hole</li> <li><sup>4</sup> Recharge</li> </ul>	7 Abandoned (Other)	Replacement well		Blais Rd.	-
WATER USE	55-56				
<sup>1</sup> Domestic <sup>2</sup> Domestic	5 Commercial 6 Municipal 7 Rubic surphy	<sup>9</sup> □ Not use <sup>10</sup> □ Other	`,2	Km 190'	
<ul> <li><sup>3</sup>          Irrigation     </li> <li><sup>4</sup>          Industrial     </li> </ul>	<ul> <li>7 Dublic supply</li> <li>8 Cooling &amp; air conditionin</li> </ul>	g		<b>.</b>	
METHOD OF C		<sup>9</sup> 🗋 Driving	1   '		
1 TI Coble tool	<sup>5</sup> Air percussion nventional) <sup>6</sup> Boring	<sup>10</sup> Digging			00000
<ul> <li><sup>1</sup> □ Cable tool</li> <li><sup>2</sup> □ Rotary (co</li> <li><sup>3</sup> □ Rotary (rev</li> <li><sup>4</sup> □ Rotary (air</li> </ul>	verse) <sup>7</sup> Diamond	<sup>11</sup> Other	11		22286
<ul> <li><sup>2</sup>          Rotary (co     <li><sup>3</sup>          Rotary (res     </li> </li></ul>	verse) 7 Diamond r) 8 Jetting	Well Contractor's Licence No.	Data se Contracto		eceived 6
<ul> <li><sup>2</sup> Rotary (co</li> <li><sup>3</sup> Rotary (ret</li> <li><sup>4</sup> Rotary (air</li> </ul>	verse) 7 Diamond r) 8 Jetting		Source 1	119 Inspector	eceived 6
<sup>2</sup> □ Rotary (co <sup>3</sup> □ Rotary (re <sup>4</sup> □ Rotary (air Name of Well Contr AIF - C	actor xck Drillin Celte 2 Jaspen Dt		source	119 JA	eceived 6

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Print only in spac Mark correct box	Environment ces provided. with a checkmark, where applic	able. $11$	15335		
		Township/Borough/City Address	//Town/Village STEP	Con block	tract survey, etc. Lot 2 Date completed day month y
<b>21</b>		Northing		Vation RC Basin Code	
General colour	LOG ( Most common material	OF OVERBURDEN AND BED Other materials	ROCK MATERIALS (	General description	Depth - feet From To
Qual	Sand	0			$\begin{array}{c c} 0 7 \\ 7 9 \end{array}$
Grey II	Constant	¢			98 12
1	Sandston	<u>a</u>			12722
				12.13.23.2.1	
31					
	4 15 21 ER RECORD 21 51				
Water found at - feet	Kind of water	Material thickness inches	Depth - feet From To	(Slot No.)	inches Depth at top of screen
016 <sup>2</sup>	Autos Gas	11     12       2     Galvanized       3     Concrete       4     Open hole	O 22	S	41-44 feet
2 [	Fresh 3 Sulphur 24	5 □ Plastic 100	20-23	61 PLUGGING	& SEALING RECORD
2 [	Salty 4 I Minerais	3 Concrete	020	Depth set at - feet From To Mater	ial and type (Cement grout, bentonite, e
25-28 1		5 🗆 Plastic		70.13 7 117 /	manton
2 [	Fresh         4         Minerals         24:3           Salty         6         Gas         24:3           Freeb         3         Sulphur         34         60         4	25 1 Steel 26 2 Galvanized 3 Concrete	27-30	<b>2</b> <sup>0-13</sup> <b>3 3 1</b> <sup>17</sup> <b>(</b> ) 18-21 <b>22-25</b>	ment gran
30-33 1 [ 2 [	Safty 6 Gas Safty 6 Gas Safty 6 Gas Safty 6 Gas Safty 6 Gas	25 1 Steel 26 2 Galvanized			ment grow
30-33 1 2 2 1 2 2 71 Pumping test m 2 2 71 Pump 2	□         rissin 4         Minerais         24-           Safty 6         Gas         Safty 6         Gas           □         Fresh 3         Sulphur 34         60         60           Safty 6         Gas         60         60         60           hethod         10         Pumping rate         10         G           ■ Bailer         G         G         G         G	1 Steel 26     2 Galvanized     3 € Concrete     1 Open hole     3 Plastic     1:14     Duration of pumping     10-16     Mours Mins	20 220	18-21 22-25 26-29 30-33 80 LOCATION OF V	
30-33 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Instant         Immerais         24-           Safty         6         Gas         24-           Fresh         3         Sulphur         34           Fresh         3         Sulphur         34           Safty         6         Gas         60           Bailer         Pumping rate         G         G           Water level         7         Water levels during         30 minute           22-24         15 minutes         30 minute         30 minute	25         1         Steel         25           2         Galvanized         3         Concrete           3         Plastic         1000000000000000000000000000000000000	ZO ZZO	18-21 22-25 26-29 30-33 80 LOCATION OF V	VELL f well from road and lot line.
30-33 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	International Statty         6         Gas         24-1           Satty         6         Gas         6         6           Bailer         8         8         6         6           Water level         25         Water levels during         6           Vater level         15         minutes         30         30           12         0         6         6         6         15	25         1         Steel         26           2         Galvanized         3         Concrete           3         Concrete         4         Open hole           3         Plastic         10         10           1-14         Duration of pumping         1000000000000000000000000000000000000	ZO ZZO	LOCATION OF N m below show distances o	
71 Pumping test n Static level 1 Static level 1 Static level 1 Recommended p	Instance         Image: American and a minimized and a minimiz	25         1         Steel         26           2         Galvanized         3         Concrete           3         Discorrete         3         Plastic           1-14         Duration of pumping Hours         1016         Mins           1         Pumping         Mins         Mins           1         Pumping         Consults         S.37           feet         Geominutes         32.34         60 minutes         S.37           feet         Water at end of test         42         42         Feet           feet         Clear         Cloudy         46-9         43-9           13-5         Recommended         46-9         46-9         45-9	ZO ZZO	LOCATION OF N m below show distances o	
71 Pumping test n Static level 1 Static level 1 Static level 1 Recommended p	□ ress         ▲         Minerals         24           Satty         6         Gas         24           Fresh         3         Sulphur         34           Satty         6         Gas         6           Satty         6         Gas         6           Bailer         Minerals         6         6           Bailer         Water levels         7         6           Vater level         25         Water levels during         7           2224         15 minutes         30 minute         16           12         16         16         16         16           feet         4         9         17         16           14         9         Pump intake set at         30           GPM         Recommended         16         16           Dump type         Recommended         17         16	25         1         Steel         26           2         Galvanized         3         Econcrete           3         Plastic         1000000000000000000000000000000000000	ZO ZZO	LOCATION OF N m below show distances o	
TI Pumping test m TI Pumping test m Static level Figure 1921 If flowing give m Recommended p Shallow So 53 FINAL STATU	□         resn         △         minerais           □         Satty         6         Gas         24           □         Fresh         3         Sulphur         34         6         6           □         Fresh         4         Minerais         6         6         6         6           □         Bailer         Valer level         6         Gas         6         6         6           ■         Bailer         Valer levels         10         Pumping rate         1         6         G           Nater level         2         Water levels         30         minute         16         16           12         0         2224         15         minutes         16         16           12         0         6         6         30         16         16           12         0         6         6         16         16         16         16           12         0         6         6         16         16         16         16           12         0         6         9         9         9         16         16         16         16         16	25     1 □ Steel     26       2 □ Galvanized     3 □ Econcrete       3 □ Duration of pumping     15-16       PM	ZO ZZO	LOCATION OF N m below show distances o	
71 Pumping test m Static level v 1 1 2 2 2 1 2 2 71 Pumping test m Static level v 1 1 0 2 1 1 0 2 1 2 2 2 2 1 2 1	□ resn         ▲         Minerais         24           Satty         6         Gas         6         6           □ Fresh         3         Sulptur         34         6         6           □ Satty         6         Gas         6         6         6         6           ■ Satty         6         Gas         6         6         6         6         6           ■ Bailer         Vater level         25         Water levels during         30 minute         7         6         6           Atter level         25         %         15         minutes         30         16         16           12         0         12         15         1000000000000000000000000000000000000	25     1 □ Steel     28       2 □ Galvanized     3 □ Econcrete       3 □ Duration of pumping       114     Duration of pumping       PM	ZO ZZO	LOCATION OF N m below show distances o	
71 Pumping test n 71 Pumping test n 71 Pump 2 Static level v 15 Static level v 16 Static level v 17 Static level v 18 Static level v 19 Static level v 19 Static level v 19 Static level v 10 S	□       resn       ▲       Minerals       24-         Satty       6       Gas       24-         □       Fresh       3       Sulphur       34-         □       Resn       4       Minerals       60-         □       Bailer       Water levels       60-       60-         □       Bailer       25       Water levels       30-         Vater level       2       2       15-       16-         12       0       feet       16-       16-         12       0       feet       16-       16-         12       0       feet       16-       16-         14       Bender       90-       16-       16-         14       GPM       Recommended pump seting       120-         Deep       Pump intake set at       GPM       120-         SOF WELL       54       0-       Abandoned, insufficient pump well         0       Deardoned       is 0-       Abandoned, poor qua         10       Bandoned       poor qua       10-       0-         10       Soff       5       0-       Commercial	25     1     Steel     26       2     Galvanized       3     Concrete       4     Open hole       3     Plastic         1-14     Duration of pumping       1-14     Pumping       9     Hours       1     Pumping       9-31     45 minutes       1     Geet       1	ZO ZZO	LOCATION OF N m below show distances o	
71 Pumping test n 71 Pumping test n 71 Static level 50 Static level 1921	□ resn         ▲         Minerais           Satty         6         Gas           □ Fresh         3         Sulphur         34           △ Minerais         3         Sulphur         34           □ Satty         6         Gas         6           □ Satty         6         Gas         6           □ Bailer         Water level         2         15           Vater level         2         Water levels during         30 minute           12         0         6         6         16           Mater level         2         15         7         6         6           12         0         6         16         16         16         16           12         0         6         6         30         16         16           12         0         6         16         6         16         16         16           12         0         6         16         6         16         16         16           12         0         6         17         16         16         16         16           13         0         17         16         16	25     1     Steel     28       2     Galvanized       3     Concrete       4     Open hole       3     Plastic       1     Pumping       1     Pumping       3     Concrete       Mins       1     Pumping       3     Static       1     Pumping       1     Pumping       3     Static       1     Pumping       1     Get       1     Clear       2     Cloudy       46-49       3     Feel       10     Placement well	ZO ZZO	LOCATION OF N m below show distances o	
71 Pumping test n 71 Pumping test n 71 Pump 2 5 Static level v 10 Pump 2 5 Static level v 10 Pump 2 10	□ risen 4         □ Minerais           Satty 6         Gas           □ Satty 6         Gas           □ Fresh 3         □ Sulptur 34           □ Satty 6         Gas           □ Satty 6         Gas           □ Satty 6         Gas           □ Satty 6         Gas           □ Minerais         □           □ Satty 6         Gas           □ Bailer         Valer levels           Vater level         2           Vater level         2           15 minutes         30 minute           12         15 minutes           14         Pump intake set at           GPM         Recommended           □ Deep         Pump setting           □ Deep         □ Abandoned, insufficie           0 Dewatering         ○           0 Dewate	25     1     Steel     28       2     Galvanized       3     Concrete       4     Open hole       3     Plastic         1-14     Duration of pumping       10     Plastic         1     Pumping       2     Recovery       8-31     Pomping       2     Recovery       8-31     Cloudy       1     Pumping       2     Recovery       8-31     Cloudy       1     Pumping       2     Recommended       1     Cloudy       1     Cloudy       1     Pumping       45     Recommended       46-49       10     Replacement well       10     Replacement well       10     Other       10     Other	ZO ZZO	LOCATION OF N m below show distances o	
71 Pumping test n 71 Pumping test n 50 Pump 2 50 Pum	□       resh       △       Minerais         Satty       6       Gas       24         □       Satty       6       Gas       24         □       Fresh       3       Sulphur       34       6         □       Bailer       Water levels       6       6       6         ■       Bailer       Water levels       30       minute         // 0       feet       2224       15       minutes       30       minute         // 0       feet       feet       16       10       feet       16       10         // 0       feet       feet       16       feet       16       10       10       10         // 0       feet       GWater level       30       30       minute       10       10         / 0       feet       GPM       Recommended       pump seting       20       20       10	25     1     Steel     28       2     Galvanized       3     Concrete       4     Open hole       3     Plastic       1     Pumping       1     Pumping       9     Amounts       1     Pumping       9     Clear       60     Goudy       10     Get       10     Clear       10     Clear       10     Goudy       10     Get       10     Recommended       46-49     gPM       10     Replacement well	ZO ZZO	LOCATION OF N m below show distances o	f well from road and lot line.
Totary (C	□         resn         ▲         Minerais           Satty         €         Gas         24           Satty         €         Gas         24           □         Fresh         3         Sulphur         34           Satty         €         Gas         24           Satty         €         Gas         24           Satty         €         Gas         24           Satty         €         Gas         24           Satty         €         Gas         6           Bailer         Water levels         7         G           Vater level         2         Water levels during         7           Towater level         2         30 minute         7           Towater level         2         30 minute         7           Towater level         GPM         9         10         10           Pump type         Pump intake set at         GPM         10         10           Soff WELL         54         54         10         10           Soff WELL         54         10         10         10           well         6         Deavatoring         10	25     1     Steel     28       2     Galvanized       3     Concrete       4     Open hole       3     Plastic         1     Pumping       1     Pumping       9     Theours       1     Pumping       45     minutes       92.31     45       1     Pumping       45     minutes       9     Clear       10     Clear       11     Performended       46-49     gPM       13-45     Recommended       46-49     gPM       13-45     Recommended       13-45     Recommended       9     Untinished       19     Replacement well       19     Replacement well       9     Other	ZO ZZO	LOCATION OF M m below show distances o north by arrow. Blacs f 2629 30-33 90	f well from road and lot line. 7 8 8 3 5 5 5 5 5 5 5 5 5 5 5 5 5
	□         resn         ▲         Minerais           Satty         €         Gas         24           Satty         €         Gas         24           □         Fresh         3         Sulphur         34           Satty         €         Gas         24           Satty         €         Gas         24           Satty         €         Gas         24           Satty         €         Gas         24           Satty         €         Gas         6           Bailer         Water levels         7         G           Vater level         2         Water levels during         7           Towater level         2         30 minute         7           Towater level         2         30 minute         7           Towater level         GPM         9         10         10           Pump type         Pump intake set at         GPM         10         10           Soff WELL         54         54         10         10           Soff WELL         54         10         10         10           well         6         Deavatoring         10	1       Steel       26         2       Galvanized         3       Concrete         4       Open hole         3       Hours         4       Plastic         1       Pumping         1       Pumping         9-31       45 minutes         10       Pumping         114       Duration of pumping         117       Hours         11       Pumping         12       Faconery         13-45       minutes         13-45       Recommended         13-45       Recommended         46-49       gPM         13-45       Recommended         46-49       gPM         13-57       Recommended         46-49       gPM         13-57       Recommended         46-49       gPM         10       Replacement well         10       Replacement well         11       Other         12       Proving         10       Digging         11       Other	ZO ZZO	18-21     22-25       LOCATION OF V       m below show distances o       Orth by arrow.       Blous F       Blous F       2 Km       S8 Contractor       1119	f well from road and lot line. 7 80' 248865
71     Pumping test n       71     Pumping test n       90:33     1       2     2       Pumping test n     19:21       Istatic level     V	□       resh       ↓       ↓       ↓       24-         Satty       6       Gas       24-       1         □       A       ↓       ↓       ↓       1         □       Bailor       ×       ↓       ↓       ↓       1         □       Bailor       ×       ↓	1       Steel       26         2       Galvanized         3       Concrete         4       Open hole         3       Hours         4       Plastic         1       Pumping         1       Pumping         9-31       45 minutes         10       Pumping         114       Duration of pumping         117       Hours         11       Pumping         12       Faconery         13-45       minutes         13-45       Recommended         13-45       Recommended         46-49       gPM         13-45       Recommended         46-49       gPM         13-57       Recommended         46-49       gPM         13-57       Recommended         46-49       gPM         10       Replacement well         10       Replacement well         11       Other         12       Proving         10       Digging         11       Other	ZO ZZO	LOCATION OF M m below show distances o north by arrow. Blacs F 28 Contractor 1119	f well from road and lot line.
71 Pumping test n 71 Pumping test n 71 Pump 2 5 Static level v 15 Static level v 16 Pump 2 5 Static level v 17 Pump 2 10 Pum	□       resh       ↓       ↓       ∴       24-         Satty       6       Gas       6       6         □       Fresh       3       Sulphur       34       6       6         □       Bailer       Water level       25       Water levels during       1         □       Bailer       22-24       15 minutes       30 minute         // 2       0       feet       6       30         // 2       0       feet       16       16         // 2       0       feet       16       16         // 2       0       feet       16       16         // 3       0       minute       30       minute         // 2       0       feet       16       16         // 4       0       feet       15       monup testing       20         / 3       0       beep       Pump intake set at       30       minute         0       beendering       20       20       20       20         S OF WELL       54       5       20       20       20         S OF WELL       54       5       20       20       20 </td <td>1       Steel       28         2       Galvanized         3       Concrete         Copen hole       3         1       Plastic         1       Pumping         1       Pumping         1       Pumping         1       Pumping         9:3.45       Fleecommended         16et       Clear         13:45       Recommended         9:45       Recommended         9:45       Recommended         9:46       Paper         10       Other         10       Other         114       19         9:0       Other         10       Other         111       Other         111       Other</td> <td>ZO ZZO In diagra Indicate</td> <td>LOCATION OF M m below show distances o north by arrow. Blacs F 28 Contractor 1119</td> <td>f well from road and lot line. 7 8 8 3 5 5 5 5 5 5 5 5 5 5 5 5 5</td>	1       Steel       28         2       Galvanized         3       Concrete         Copen hole       3         1       Plastic         1       Pumping         1       Pumping         1       Pumping         1       Pumping         9:3.45       Fleecommended         16et       Clear         13:45       Recommended         9:45       Recommended         9:45       Recommended         9:46       Paper         10       Other         10       Other         114       19         9:0       Other         10       Other         111       Other         111       Other	ZO ZZO In diagra Indicate	LOCATION OF M m below show distances o north by arrow. Blacs F 28 Contractor 1119	f well from road and lot line. 7 8 8 3 5 5 5 5 5 5 5 5 5 5 5 5 5

	tario Ministry of the Environm		ell Tag No	. (Place Sti A05156			elow) 1 <b>569</b>	egulation	903 On		er Reso	ecord
Well Owner's				Le.	JI Add						Nell Con	structed
First Name Airport Go	olfland Last Nan	ne		E-ma	ail Address						by Well	Owner
Mailing Address (	(Street Number/Name, RR)		Municipality			Provir	ario	Postal Code K  4   P   1M	Sec. 123	elephone N 13   85	202010200	168
6357 Emera	ald Links uction and/or Major Alter:	ation of a We	Greely			Unt	arro	A	1. 10.	Tel Fe		
Address of Well L	Location (Street Number/Name	e, RR)	Town	nship				Lot 20	C	Concession		
Hwy 31 County/District/M	Aunicipality		222.232.0	ouceste Town/Villag					Provinc		Postal	Code
Ottawa Car	rleton			ouceste	and the second second				Onta			ЦЦ
UTM Coordinates		lorthing 5018088	GPS U	Init Make	Model Garmi	n	Mode of 0	Deration:	Undiffer	entiated	Ave	raged
NAD 8 3 Overburden and	d Bedrock Materials (see ins		back of this for	rm)	ourmit						0 4	144-4
General Colour	Most Common Material		her Materials				General D	escription			From	(Metres) To
Brown	Clay	Stone	es			Pa	acked				0	3.35
Grey	Limestone					Bi	roken				3.35	4.57
Grey	Limestone					Me	edium l	Hard				42.66
Grey	Limestone	Sands	stone La	iyers		Ha	ard			2	42.66	52.72
					Veron							
Donth Col -1 ///-	Annular Space/Aband	Ionment Sealin ealant Used	ng Record	Volume	Placed			Results of We st of well yield,		d Testing aw Down		ecovery
Depth Set at (Me From To		ealant Used and Type)		(Cubic I	Metres)	water wa			Time (Min)	Water Leve (Metres)	el Time (Min)	Water Level (Metres)
6.40 0	) Grouted Bento	onite Slu	rry	.13	2m <sup>3</sup>	Can stat		p to sand-free	Static Level	10 20	5 Static	
						10 M 11 M		ued, give reason	1	6.4	4	18.19
						Dumpin	g test meth	od	2	8.5		17.26
							ubmers		3		-	Takes Des
Method	of Construction		Water Use			Pump in	ntake set at		4	9.9	0	15.67
Cable Tool			Commercia	Contraction of the second s	lot used lewatering	Pumpin	45. g rate (Litre			11.1	8	14.50
Rotary (Conve	rse) Driving	Livestock	Test Hole	🗆 N	Anitoring		54.		5	12.2	1000	13.32
Rotary (Air)		Irrigation	Cooling &	Air Condition	ing		n of pumpir hrs +	ng min	10	16.1		9.44
Other, specify	/ D	Other, specify _			_	Final wa	iter level en	d of pumping	15	18.2		7.38
Water Supply		s of Well	Observatio	n and/or Moni	itoring Hole	(Metres)	21. mended pu		20	19.5	1 20	6.24
Replacement		and the second second	Alteration Other, spe		1)	Shi	allow 🔀	Deep	25	20.3	6 25	5.61
Recharge Wei							mended pu		30	20.9	30	5.18
		on of Well				30.4 Recom	mended pu		40	21.6	40	4.75
- all property bou	a map below showing: undaries, and measurements suffi	icient to locate th	e well in relati	on to fixed po	oints,	(Litres/n	45.		50	22.0	50	
- detailed drawing	uting the North direction gs can be provided as attachmen	its no larger than	legal size (8.	5° by 14")	£	(Litres/r	ng give rate nin)		60	22.1	00	
- vidigital pictures	s of inside of well can also be pro	VIDED			1			Wate	er Deta			
-	Golf Shop						found at D		of Wate	sally	Test	ed
t	Gold Shap					51. Water	50 Metres	Gas Gas Kind	of Wate	-	Sulphui	
25							Metres	Gas F			Sulphur	Minerals
5						Water	found at E Metres		of Wati resh		Sulphur	Minerals
X						Cas	ing Used					II Details
, SA	Blais Rd.					and the second second	anized	Galvanized		iameter of th	ne Hole (C	Centimetres)
P						Stee	il eglass	Steel	D	15. lepth of the l	.39 Hole (Met	res)
Date Well Com	npleted   Was the well owner's in		ate the Well R			Plas	1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m	Plastic			.72	
(yyyy/mm/dd)	package delivered?	22 T 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	alivered to We 2008/07/		ry/mm/dd)	Con		Concrete		Vall Thicknes	.48	5)
_2008/07/	14 Well Contractor and V		an Informat	ion				ind Screen Use	In	nside Diame	ter of the	Casing (Metres
	e of Well Contractor			Contractor's L	icence No. 5 8	Disinfe	pen Hole		D	25 Depth of the	.86 Casing (A	(etres)
	Water Supply Ltd. ess (Street No./Name, number,		Municipali		0 0	1.12.000000	'es 🗌 No	,		a valianta ser	to 6	
Box 490				tsville		Audit	la		vell	Only Contractor	No.	
Province Ontario Bus.Telephone		ness E-mail Ado fice @ ca Il Technician (L	pitalwat	ter.ca rst Name)		Audit N Date R	Z / I			of Inspectio		m/dd)
613 836 Well Technician's	5 1766 Mille s Licence No. Signature of Tech	er, Stepj	hen	Submitted (	yyyy/mm/dk /16	d) Remai		2008				
0 0 0506E (11/2006)	9 7 Mulufme	rat			ry's Cop	by				© Que	en's Printe	r for Ontario, 20