

August 19, 2024

PH4600-LET.01.REV.04

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Geotechnical Engineering Environmental Engineering Hydrogeology Materials Testing Building Science Rural Development Design Retaining Wall Design Noise and Vibration Studies

patersongroup.ca

Attention: Eric Hochgeschurz

Subject: Hydrogeological Assessment and Terrain Analysis 135 Cardevco Road Ottawa (Carp), Ontario

INTRODUCTION

Further to your request, Paterson has conducted a Hydrogeological Assessment and Terrain Analysis in support of a Site Plan Control Application for the proposed commercial building addition located at 135 Cardevco Road in Ottawa (Carp), Ontario.

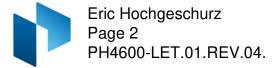
The purpose of this work has been to determine the suitability of the water supply aquifer underlying the site to support the Site Plan Application for a proposed building addition.

The Subject Site consists of a 0.20 ha lot and is currently occupied by a commercial building with associated private infrastructure. The ground surface generally slopes towards the north-east while the general groundwater flow is likely towards the south towards the local watercourse.

The Subject Site is bordered on all sides by commercial properties and fronts onto Cardevco Road to the northeast. The subject site itself and the surrounding commercial areas are zoned RG4 for Rural General Industrial Subzone 4 (GeoOttawa).

A Hydrogeological pre-consultation was completed with a City of Ottawa Hydrogeologist on August 31, 2022. The City Hydrogeologist suggested that additional sampling be completed during the 8-hour pumping test for Petroleum Hydrocarbons (PHC's) in addition to the standard Subdivision Package suite of parameters, trace metals and Volatile Organic Compounds (VOC's) required by the City of Ottawa Hydrogeological and Terrain Analysis Guidelines (HTAG).





DESCRIPTION OF SUBJECT SITE

The subject site is an approximately 0.20 ha lot and is currently occupied by a one story commercial building. The Site Plan application is for a proposed building addition. A portion of the existing building is to be demolished and replaced with a new addition which will be smaller than the existing building. Please refer to Figure-1 Key Plan and Arbaum Architects Drawing A-010, Demolition / New Site Plan dated June 13, 2023 attached for the proposed site location and site layout.

The subject site is currently serviced by an onsite sewage system and a existing private drilled well. A new sewage system is proposed to be located in the same location as the old sewage system. Paterson has completed a replacement sewage system design for the proposed development, due to the nitrate reduction required a part of the Nitrate Impact Assessment (NIA). A septic flow calculation was completed and resulted in a total daily water demand calculation of 876 L/day. Please refer to Paterson Drawing PH4600-1(rev.04) – Sewage System Layout Plan dated August 2024 attached for specific details of the new sewage system.

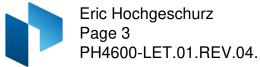
The existing well, hereafter referred to as Test Well 1 (TW1) is the well which is currently servicing the existing building and will continue to service the building following the completion of the proposed building addition. The property owner will need to ensure that protective measures are taken to protect the wellhead, such as the use of a barrier, when constructing the proposed building addition.

The suitability of the aquifer to supply the subject site was assessed using the methodology provided in City of Ottawa Hydrogeological and Terrain Analysis Guidelines (HTAG).

Based on available Ontario Geological Survey (OGS) mapping (GRS005), the subject site is within an area of potential karst. According to the WWR for TW1, bedrock is located at approximately 4.9 m below ground surface (bgs). TW1 has well casing extending to a depth of 6.7 m bgs, and an aquifer intercept of 25 m. Based on the depth of the aquifer intercept and the geochemistry encountered within the aquifer (see table 2a and 2b, below), there is no evidence of surficial impacts on the aquifer. Furthermore, the well has been in use for over a decade with no evidence of surficial impacts, therefore, it is not anticipated that there is karst within the subject site.

MISSISSIPPI-RIDEAU SOURCE PROTECTION PLAN

The Mississippi-Rideau Source Protection Plan (MRSPP) provides guidance as to which policies apply to a given property, municipality or specific activity and if there are specific designations that apply to the area. The subject site and surrounding areas have been designated as a Significant Groundwater Recharge Area (SGRA), Highly Vulnerable Aquifer (HVA), and Intake Protection Zone (IPZ) Zone 3 within the MRSPP, and are identified as three of four groundwater related vulnerable areas identified within the Clean



Water Act (2006). The four vulnerable areas consist of SGRA, HVA, IPZ and wellhead protection area (WHPA).

Based upon the designation of an SGRA, IPZ Zone 3 and HVA, the MRSPP provides a list of activities that are prohibited, managed or encouraged to change dependent upon the vulnerable area type. The subject site is mapped to be in IPZ zone 3 (Source Protection Atlas), however has an IPZ score of less than 8 (MRSPP). There is no prohibition of land uses on the subject site based upon its existing usage.

Therefore, there are no related requirements for an HVA, an IPZ with a score of less than 8 or SGRA at this location.

FIELDWORK PROGRAM

Well Inspection

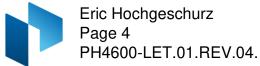
A visual inspection of TW1 was performed by Paterson personnel which confirmed that the well casing and cap are in good condition. The final grading around the well will be sufficiently graded to direct surface water away from the wellhead (as required by O.Reg 903) at the time of the new sewage system installation. The stickup was measured to be 0.51 m above ground surface. Based on a visual inspection by Paterson personnel, the well was deemed to be in good condition.

Well Testing

As a means to demonstrate the adequacy of the aquifer underlying the subject lands, with respect to water quality and quantity, the existing drilled well (TW1) on the subject site was tested. TW1 has a Water Well Record (WWR) Well ID of A134668. TW1 has a 152.4 mm diameter steel casing that extends to 6.7 m below ground surface (bgs) with a 0.51 m stick up. The well itself extends to a depth of 30.5 m bgs. Based on available geological mapping, the drift thickness at TW1 varies from 5 to 10 m. Refer to Paterson Drawing PH4600-1(rev.4) – Sewage System Layout Plan, attached, for the approximate location of TW1.

As a means to evaluate the water supply aquifer intercepted by the well, the well was subjected to an 8-hour constant rate pumping test. The pumping test was conducted on September 22, 2022 under the full-time supervision of Paterson personnel. Prior to the pumping test the well was disinfected as per the MECP Disinfection Instruction Sheet (attached), and a data-logger was installed to monitor the background groundwater levels.

The existing submersible pump was used for the 8-hour pumping test. A licensed water well technician (Air Rock) completed the necessary plumbing related activities. The discharge line was placed at a sufficient distance to ensure that the discharge water was being directed away from the well as well as any septic systems in the area. Upon completion of the test, the system was returned to its normal configuration.



The pumping test was carried out at a pumping rate of 27 L/min for a duration of 8 hours. During the pumping test, the pumping rate was periodically measured using the timed volume correlation method. The pumping rate was maintained within 5% of the selected pumping rate. The static water level was recorded manually and an electric datalogger (VanEssen TD-Diver) was installed in the test well prior to the start of the pumping test.

The selected rate of 27 L/min provides approximately 14.8 times the maximum total daily design volume of 876 L/day for the septic system during the 8-hour pumping test. The total daily design sanitary sewage flows (TDDSSF) were calculated as per the Ontario Building Code Section 8.2.1.3. The detailed calculations can be found in Paterson's Drawing PH4600-2(rev.4) - Sewage System Details and Notes, attached to this report. The rate was determined to be representative of a flow rate which would be in excess of what the development would require.

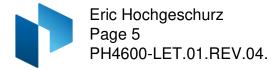
The data logger recorded water levels at 30 second intervals. In addition, manual water level readings were taken at periodic intervals during the test.

Recovery data was collected from the well following the completion of the pumping. The well was noted to have achieved 95% recovery approximately 21 minutes after the completion of pumping.

Groundwater samples were collected at 4 hours and 8 hours after the start of pumping. Prior to collection of the groundwater samples, the free chlorine residual was verified as non-detectable. The water samples were submitted for comprehensive testing of bacteriological, chemical, and physical water quality parameters consistent with the standard "Subdivision Supply" suite of parameters plus trace metals, VOCs, and PHCs.

All samples were collected unfiltered and unchlorinated and were placed directly into clean bottles supplied by the analytical laboratory. Samples were placed immediately into a cooler with ice and were transported directly to Environmental Testing Canada Inc.(Eurofins) laboratory in Ottawa. All samples were received by the laboratory within 24 hours of collection.

A series of field tests of the pumped water were carried out at the well head during the 8 hour pumping test. The parameters tested at the well head included: pH, total dissolved solids, conductivity, turbidity, true colour, and temperature. Calibration / confirmation of calibration of all field-testing equipment was performed in Paterson's laboratory the day prior to the pumping test. Values are then confirmed again onsite prior to the start of the pumping test.



Aquifer Analysis

Water Quantity

Pumping test data was analyzed using AQTESOLV Pro Version 4 aquifer analysis software package by HydroSOLVE Inc. Drawdown data was measured using an electronic water level tape and an electronic datalogger unit.

Table 1: SUMMARY OF WATER SUPPLY	AQUIFER CHARACTERISTICS OF TW1
AQUIFER PARAMETER	RESULT OF ANALYSIS
Transmissivity (m²/day)	17.2
Pumping Rate (L/min)	27
Pre-test Static Water Level (m)	2.3
Post-test Static Water Level (m)	Max – 4.3, End – 3.7
Available Drawdown (m)	28.2
% Drawdown During Pumping Test (%)	7
Specific Capacity (L/min/m drawdown)	13.5

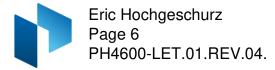
The drawdown data was analyzed using the Theis and Cooper Jacob methods of analysis. Aquifer transmissivity is estimated to be 17.2 m²/day. Refer to the Theis and Cooper Jacob methods of analysis data sheets attached to this report.

As demonstrated by the measured values, the water level in the well was increasing variably as the pumping test was performed. As the water level increased variably during the constant pumping portion of the test, it is expected that the aquifer which TW1 accesses is connected with other wells in the area. The water level variations occurred within the expected commercial operating hours in the immediate surrounding vicinity of the subject site.

The pumping test results show that TW1 has a high yield to support the water demands that may be required. Overall maximum drawdown at a constant pumping rate for a period of 8 hours was approximately 4.3 m at approximately 2 hours into the pumping test (7% of the available drawdown). The final drawdown at the end of the 8 hour pumping test was 3.7 m (5 % of the available drawdown) 95% recovery was achieved approximately 21 minutes after the end of pumping.

The total volume of water pumped during the 8-hour pumping event was approximately 12,960 L. This is approximately 14.8 times the maximum total daily design volume of water (876 L/d) required to support the Site Plan Control Application.

The suitability of the aquifer to supply the proposed Site Plan Application for the proposed commercial modification was assessed using the methodology provided in the City of Ottawa Hydrogeological and Terrain Analysis Guidelines (HTAG).



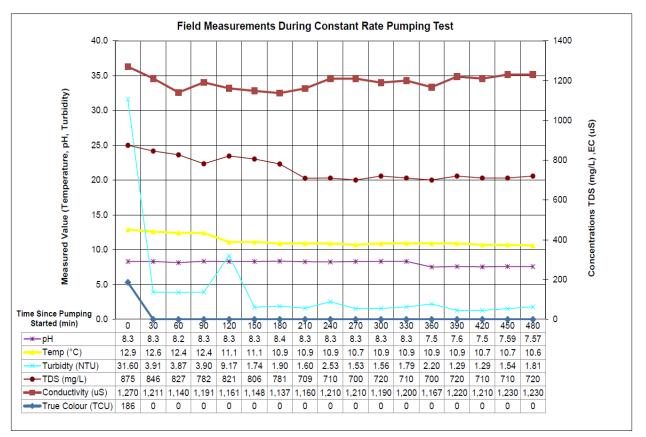
Based on the information summarized in Table 1, it is readily apparent that the water supply well has intercepted an adequately strong water supply aquifer which has sufficient quantity to service the proposed Site Plan Control Application.

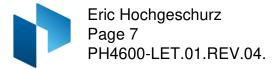
Given the analyses presented and summarized above, it is our opinion that there is an adequate supply of water to support the proposed Site Plan Control Application. Available water well records (WWR) of the neighboring properties on the MECP Well Record mapping website indicated that the wells were screened in limestone. Surrounding WWR's are attached to this report.

Water Quality

Field Data

Turbidity, electrical conductivity, total dissolved solids (TDS), pH, true color and temperature were measured at the wellhead during the pumping test. The measurements and time intervals for each of these parameters are summarized on the graphical representation below. In addition, a HACH Pocket Colorimeter II chlorine reader was used to measure the free chlorine residual level. No chlorine residual was detected in the discharge water prior to the collection of the water samples.





Laboratory Data

The Subdivision Package suite of parameters and trace metals laboratory water quality obtained from the pumping test of TW1 is provided in Table 2a and 2b below and the laboratory analyses reports can be found attached. VOC and PHC laboratory analytical testing were completed and measured to be non-detect in the sample results. All laboratory test results can be found attached to this report.

TABLE 2a: GROUNDWATER MICROBIOLOGY & GENERAL GEOCHEMISTRY								
		OD	WS	ти	V1			
PARAMETER	UNITS							
		LIMIT	TYPE	GW1 (4 hr)	GW2 (8 hr)			
				2022-09-22	2022-09-22			
MICROBIOLOGICAL	1/100		144.0		<u>^</u>			
Escherichia Coli (E.Coli)	ct/100mL	0	MAC	0	0			
Total Coliforms	ct/100mL	0	MAC	0	0			
GENERAL CHEMICAL - HEA								
Fluoride (F)	mg/L	1.5	MAC	0.41	0.42			
Ammonia (N-NH ₃)	mg/L	-	-	0.14	0.13			
Nitrite (N-NO ₂)	mg/L	1	MAC	<0.10	<0.10			
Nitrate (N-NO ₃)	mg/L	10	MAC	<0.10	<0.10			
Total Kjeldahl Nitrogen	mg/L	-	-	0.36	0.19			
Turbidity (Field)	NTU	1.0 (5.0)	MAC/AO	2.53	1.81			
Turbidity (Laboratory)	NTU	1.0 (5.0)	MAC/AO	13.2	11.6			
GENERAL CHEMICAL - AES	THETIC REL	ATED						
Alkalinity (as CaCO3)	mg/L	30-500	OG	287	289			
Chloride (CI)	mg/L	250	AO	185	191			
Colour (Apparent)	TČU	5	AO	90	86			
Colour (Field - True)	TCU	5	AO	0	0			
Conductivity	uS/cm	-	-	1,160	1,180			
Dissolved Organic Carbon	mg/L	5	AO	3.50	3.20			
Hardness (as CaCO3)	mg/L	100	OG	457	462			
lon Balance	unitless	-	-	1.01	1.01			
рH	unitless	6.5-8.5	AO	8.15	8.15			
Phenols	mg/L	-	-	< 0.001	<0.001			
Sulphate (SO ₄)	mg/L	500	AO	75	75			
Sulphide (S ₂)	mg/L	0.05	AO	0.02	0.02			
Tannin & Lignin	mg/L	-	-	1.30	1.20			
Total Dissolved Solids	mg/L	500	AO	754	767			

1. ODWS identifies the following types of parameters:

- MAC = Maximum Allowable Concentration
- AO = Aesthetic Objective
- OG = Operational Guideline
- 2. Shaded Concentration Indicates an Exceedance of the ODWS Objective

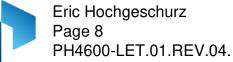


TABLE 2b: GROUNDWAT	ER GEOCHEMI	STRY - MET	ALS		
			ws	- т\	V1
PARAMETER	UNITS	LIMIT	TYPE	GW1 (4 hr) 2022-09-22	GW2 (8 hr) 2022-09-22
Volatiles	•			•	
Aluminum (Al)	mg/L	0.1	OG	<0.01	<0.01
Antimony (Sb)	mg/L	0.006	IMAC	< 0.0005	<0.0005
Arsenic (As)	mg/L	0.01	IMAC	<0.001	< 0.001
Barium (Ba)	mg/L	1.0	MAC	0.58	0.59
Beryllium (Be)	mg/L	-	-	< 0.0005	< 0.0005
Boron (B)	mg/L	5.0	IMAC	0.02	0.02
Cadmium (Cd)	mg/L	0.005	MAC	<0.0001	< 0.0001
Calcium (Ca)	mg/L	-	-	127	129
Chromium (Cr)	mg/L	0.05	MAC	<0.001	< 0.001
Cobalt (Co)	mg/L	-	-	< 0.0002	< 0.0002
Copper (Cu)	mg/L	1.0	AO	<0.001	<0.001
Iron (Fe)	mg/L	0.3	AO	1.34	1.21
Lead (Pb)	mg/L	0.01	MAC	<0.001	< 0.001
Magnesium (Mg)	mg/L	-	-	34	34
Manganese (Mn)	mg/L	0.05	AO	0.13	0.13
Mercury (Hg)	mg/L	0.001	MAC	<0.0001	< 0.0001
Molybdenum (Mo)	mg/L	-	-	<0.005	< 0.005
Nickle (Ni)	mg/L	-	-	< 0.005	< 0.005
Potassium (K)	mg/L	-	-	3	3
Selenium (Se)	mg/L	0.05	MAC	<0.001	<0.001
Silver (Ag)	mg/L	-	-	<0.0001	<0.0001
Sodium (Na)	mg/L	200	AO	79	82
Strontium (Sr)	mg/L	-	-	0.72	0.724
Thallium (TI)	mg/L	-	-	<0.0001	< 0.0001
Uranium (U)	mg/L	0.02	MAC	<0.001	< 0.001
Vanadium (V)	mg/L	-	-	<0.001	<0.001
Zinc (Zn)	mg/L	5.0	AO	<0.01	<0.01

1. ODWS identifies the following types of parameters:

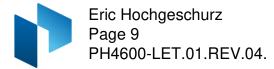
MAC = Maximum Acceptable Concentration

IMAC = Interim Maximum Acceptable Concentration

- AO = Aesthetic Objective
- OG = Operational Guideline

2. Shaded Concentration Indicates an Exceedance of the ODWS Objective

The bacteriological test results (Certificate of Analysis – Report No. 1986671) indicated that the test samples at the 4 and 8 hour interval were non-detect (0 ct/100 mL) for E.Coli and Total Coliforms.



The water quality of the subject water supply well meets all the Ontario Drinking Water Standards maximum acceptable concentrations (MAC). Furthermore, the water meets all of the Aesthetic Objectives (AO) and Operational Guidelines (OG) with the exception of the following.

- □ Hardness (as CaCO₃)
- □ Total Dissolved Solids (TDS)
- □ Iron (Fe)
- □ Manganese (Mn)

Exceedances of the above parameters are not uncommon of the water supply in the subject aquifer. Each of these groundwater parameters are discussed in detail below.

Should any water treatment be desired by the owner, it is recommended that a water treatment specialist be retained to ensure that water treatment occurs in a safe manner.

Hardness as CaCO₃

Hardness, expressed as calcium carbonate, is an operation guideline and does not appear in the ODWS. Rather, it appears in the Technical Support Documents for Ontario Drinking Water Standards, Objectives and Guidelines as a parameter with an operational guideline at 100 mg/L. At the measured concentrations of 457 and 462 mg/L, the water is considered to be hard, however, it is below the reasonable treatable limit of 500 mg/L specified in Table 3 of the MOECC guidance document Procedure D-5-5 (1996).

The Langelier calculation provided an LSI of 1.0. Based on the evaluation of the result, the water is super saturated and tends to precipitate a scale layer of calcium carbonate (scale forming but non-corrosive). Based on the range of stability in the positive direction, there are no mitigative measures needed. See Langelier Saturation Index Calculation attached for calculation details.

It is recommended that water hardness be treated using conventional technologies such as water softening or reverse osmosis, if desired by the owner. Without treating hardness, scaling can occur which can result in discolouration and residue buildup on water fixtures, or reduction in boiler efficiency due to scale build-up. According to Health Canada's *Guidelines for Canadian Drinking Water Quality - Summary Tables* "Although hardness may have significant aesthetic effects, a guideline has not been established because public acceptance of hardness may vary considerably according to the local conditions; major contributors to hardness (calcium and magnesium) are not of direct public health concern".

Total Dissolved Solids (TDS)

TDS refers to the concentration of inorganic substances dissolved in water. The main constituents are typically chloride, sulphates, calcium, magnesium, and bicarbonates. The TDS concentration of 767 mg/L exceeds the Aesthetic Objective of 500 mg/L. At concentrations above 500 mg/L, some consumers may find the taste objectionable,



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however, as the objective is an aesthetic objective, no treatment is required. It is recommended that a point of use reverse osmosis unit be installed, if the owner desires, for drinking purposes. As such, no taste problems will occur when the system is used.

The Langelier calculation provided an LSI of 1.0. Based on the evaluation of the result, the water is super saturated and tends to precipitate a scale layer of calcium carbonate (scale forming but non-corrosive). Based on the range of stability in the positive direction, there are no mitigative measures needed. See Langelier Saturation Index Calculation attached for calculation details.

Iron

Concentrations of iron above 0.3 mg/L can contribute to staining of fixtures and a metallic taste at higher concentrations. Precipitation of iron can promote the growth of iron bacteria in pipes. The concentration of iron in the groundwater in TW1 was measured to be 1.21 and 1.31 mg/L. The concentration of iron in the groundwater in the test well is considered to be reasonably treatable in accordance with Procedure D-5-5. It is recommended that a water softener or manganese greensand filter be used to reduce the levels of iron and reduce the potential for excessive precipitate occurring in the water supply system, if desired by the property owner. If treatment is not used, negative impacts such as discolouration of water fixtures, precipitation of iron and staining may occur.

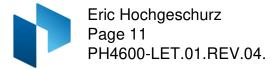
Manganese

The manganese concentration results from the laboratory test samples yielded a value of 0.13 mg/L in the onsite well, which is above the aesthetic objectives in the ODWSOG of 0.05 mg/L. The Health Canada Federal Drinking Water Guidelines have suggested a health related MAC of 0.12 mg/L due to potential adverse effects on the central nervous system primarily in infants due to chronic exposure, however this guideline has not been implemented by Ontario as of the writing of this report. Furthermore, this is a commercial development that is not raising infants.

According to the Guidelines for Canadian Drinking Water Quality: Guideline Technical Document – Manganese, section 3: "Specific guidance related to the implementation of drinking water guidelines should be obtained from the appropriate drinking water authority in the affected jurisdiction.". The applicable regulations which apply to the development approval process for this site are the HTAG and MECP Procedure D-5-5, which does not have a MAC for manganese.

Procedure D-5-5 gives a maximum concentration considered reasonably treatable for manganese as 1.0 mg/L. It is recommended that a reverse osmosis system, ion exchange / water softeners and / or an oxidizing filter be used to reduce the manganese concentration, if desired by the owner.

As the concentration of manganese is elevated above the Health Canada Federal Drinking Water Guidelines, a notice regarding the elevated levels of manganese in the



aquifer accessed by TW1 is recommended to be registered on title so that future owners are made aware.

Colour

Colour may occur in drinking water for several reasons. It may be due to organic substances from the decay of vegetation, or the presence of metals such as iron, manganese, and copper, which are abundant in nature. The provincial aesthetic objective for colour in drinking water is 5 True Colour Units (TCU). The federal (Health Canada) guideline aesthetic objective limit for colour is 15 TCU (Guidelines for Canadian Drinking Water Quality, Health Canada June 2019). Procedure D-5-5 gives a maximum concentration considered reasonably treatable for colour as 7 TCU. As colour is a strictly aesthetic parameter, a manganese greensand filter or a carbon filter can be used to reduced manganese from the water supply, if desired by the owner.

During the field pumping test, a DR900 colorimeter was used to measure true colour in the groundwater at regular intervals. True colour in the groundwater was measured as 0 TCU which is below the aesthetic guidelines of 15 TCU. The elevated apparent colour levels detected in the lab samples is attributed to the precipitation of iron and manganese out of the groundwater.

Turbidity

Turbidity, which is generally an aesthetic parameter, was detected in the laboratory test samples at values of 13.2 and 11.6 NTU in the 4 and 8 hours tests, respectively. Field testing detected the samples at values of 2.53 and 1.81 NTU in the 4 and 8 hour field tests, respectively. Continued pumping showed a decrease towards the end of the test. It is expected that continued use of the well would further reduce turbidity values. The elevated turbidity in the laboratory analyzed samples is attributed to the precipitation of iron and manganese. Therefore, it is anticipated that turbidity levels will also decrease due to treatment of other constituents, if treatment is desired by the owner.

During the pumping test, a Hanna Instruments HI98703 Fast Tracker Turbidity Meter was used to measure the turbidity in the groundwater at regular intervals. The ODWS maximum acceptable concentration for turbidity in drinking water entering the distribution system is 1 NTU. The Aesthetic Objective for turbidity in drinking water reaching the consumer is 5 NTU. The field test parameters are below the 5 NTU objective. As turbidity was detected above 1 NTU, particular care must be taken during testing to ensure that the bacteria requirements of Table 1 are met. The bacteriological test results indicated that the test samples at the 4 and 8 hour interval were non-detect (0 ct/100 mL) for E.Coli and Total Coliforms.

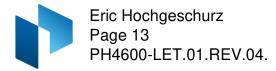
Sodium

Sodium (Na), an aesthetic parameter, was detected in the laboratory test sample at concentrations of 79 and 83 mg/L, which does not exceed the ODWS aesthetic objective of 200 mg/L. Although sodium is not toxic and no maximum acceptable concentration has



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been set, concentrations above 20 mg/L require that the Medical Officer of Health be notified of the water quality results, so that this information may be passed on to local physicians for use in treatment of those requiring a sodium-restricted diet. It should be noted that some water treatment technologies, such as water softeners, can increase the sodium concentration so care should be given if such treatment technologies are used.



Terrain Analysis

Surficial Geology

A series of test pits were put down on the subject parcel to delineate the subsurface soil conditions as part of the Geotechnical Investigation (Paterson Report PG6018-1.REV.04 dated November 24, 2023). On November 12, 2021 five (5) test pits were excavated on the property for the design of the proposed building addition and its associated infrastructure. The test pits were advanced to a maximum depth of 3.5 m below ground surface (bgs). Two test pits were excavated within the vicinity of the proposed southern warehouse addition, whereas the other three test pits were excavated adjacent to the exterior footings of the northern portion of the existing warehouse The locations of the test pits on the property are delineated on the Test Hole Location Plan, drawing PG6018-1, attached.

The test pit locations were recorded and the subsurface conditions, including the soil morphology and depth to the groundwater table (if encountered), were carefully observed and recorded. The soils encountered were classified texturally in the field, and later reviewed in the laboratory.

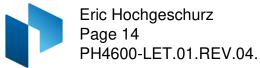
Generally, the subsurface profile at the test hole locations were observed to consist of asphalt or topsoil overlying a fill layer consisting of crushed stone and brown silty sand with gravel, occasional cobbles and trace asphalt. A brown silty sand was noted to be underlying the fill layer in all test hole locations, except for TP5-21 which consisted of a brown silty sand with gravel, cobbles and boulders (glacial till). Refusal to excavation was encountered in TP5-21 at a depth of 2.2 m bgs. Groundwater was encountered at TP4-21 at 2.0 m bgs, and at TP5-21 at 1.9 m bgs.

It should be noted that groundwater levels can fluctuate both seasonally and in conjunction with precipitation events. Therefore, the groundwater levels could vary at the time of construction.

Reference should be made to the test pit logs appended to this report for the details of the soil profiles encountered at each test hole location. The client should be aware that any information pertaining to soils are furnished as a matter of general information only and borehole descriptions are not to be interpreted as descriptive of conditions at locations other than those described by the boreholes themselves.

Hydrogeological Sensitivity of the Site

The subject site currently consists of a commercial building, associated infrastructure and private servicing. The subject site is serviced by a private well and septic system. The subject site is currently occupied by a one-storey commercial building which fronts onto Cardevco Road. The subject site is bordered to the north, east and west by developed commercial properties and to the south by Cardevco Road followed by additional



developed commercial properties. All surrounding properties are on private services. The adjacent properties are serviced by private wells and septic systems.

The overburden at the test hole locations generally consists of a fill overlying a brown silty sand. Refusal to excavation was only encountered in TP5-21 at a depth of 2.2 m bgs. According to available geological mapping, the drift thickness within the site varies from 5 to 10 m bgs.

According to the geotechnical field investigation, the overburden thickness was observed to be greater than 2 m. As the proposed site does not have bedrock within 2 m of the ground surface, the site is not considered hydrogeologically sensitive. Separation distances are not required to be increased between the septic components and the onsite well.

To corroborate our position in this matter, the water quality of the bedrock aquifer targeted by the onsite drilled potable supply well shows no indication of surface water or surface impacts from sewage system effluent.

Conceptual Lot Development Plan

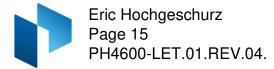
It is proposed to demolish a portion of the existing one-storey commercial building and add an addition in part of its place. The location of the existing and proposed structures can be found on the attached Arbaum Architects Drawing A-010, Demolition / New Site Plan dated June 13, 2023. The proposed private servicing is outlined in Paterson drawing PH4600-1(REV.04) – Sewage System Layout Plan, attached. It illustrates that the proposed design layout is adequate to accommodate the associated private services and meet all the regulated separation criteria. Please note that the proposed design layout is not meant to restrict the location of the proposed buildings or private services. The design will be reviewed by the Ottawa Septic System Office (OSSO) and will be constructed in accordance with the regulated regulations. The OSSO requires inspections during construction in order to ensure compliance.

Proposed Sewage System

Paterson has completed a replacement sewage system design for the proposed development due to Site Plan requirements related to the Nitrate Impact Assessment (NIA). A septic flow value was calculated for the proposed building addition and resulted in a total daily design sewage flow (TDDSF) of 876 L/day. Refer to the Paterson Drawing PH4600-1(rev.4) and Paterson Drawing PH4600-2(rev.4) attached for more specific details. The approved OSSO septic permit has been included in the Site Plan application submission package. The septic flow values were calculated in accordance with the OBC and are as follows:

- □ Office space with an area of 90 m² : 726 L/day
- □ Number of employees in the garage (2 employees x 75 L/day) = 150 L/day

The resulting total daily design sanitary sewage flow (TDDSSF) is 876 L/day.



Predictive Nitrate Impact Assessment

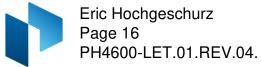
In order to demonstrate that private services would adequately support the proposed commercial development, a predictive nitrate impact assessment for the subject site was completed. The values shown in the Predictive Nitrate Impact Assessment attached to this report are summarized below.

□ Site area	0.20 ha
Impervious area (%)	47 %
Daily sewage flow	0.876 m ³ /d
 Concentration of nitrate in effluent (Value based on typical effluent concentration) 	40 mg/L
Concentration of nitrate in effluent with treatment (Value based on nitrate reduction system (Ecoflo ECDn Series) with	18.44 mg/L 53.89 % nitrate reduction)
Surplus Water (The surplus water value was estimated based on Environment Can values with a soil type comprised of fine sandy loam (Urban Lawns) sources.)	
 Combined infiltration factor based on: Topography infiltration factor Soil texture infiltration factor Cover infiltration factor 	0.70 0.20 0.40 0.10

The topography infiltration factor of 0.20 is based upon a rolling land with an average slope of 2.8 to 3.8 m/km. The soil texture infiltration factor was based upon an "open sandy loam" with a value of 0.4 which is a reasonable generalization based upon the site investigations and available geological mapping. The "cover infiltration factor" was calculated at 0.1 based upon the minimum value for cultivated land.

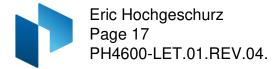
The calculation for a conventional septic system results in a predicted nitrate concentration of 21.10 mg/L nitrate for the subject site, using a value of 40 mg /L nitrate concentration within the effluent. This value was based upon a daily sewage flow of 876 L/day. It is expected that the actual usage should be lower.

An existing approved tertiary treatment system capable of reducing the nitrate loading in the effluent is the Rewatec Ecoflo brand and is called the Ecoflo Coco Filter ECDn Model Series. The Ecoflo svstem has passed the NSF/ANSI Standard 245 (American/International Testing Standard) with a nitrate reduction value of 53.89% for influent Total Nitrogen. This would reduce the nitrate concentration in the effluent from 40 mg/L down to an average of 18.44 mg/L, resulting in a predicted nitrate concentration of 9.73 mg/L, for a TDDSSF of 876 L/day. Please refer to the Predictive Nitrate Impact



Assessment Calculations attached to this report for further details. An Ecoflo system has been included in the new septic design for the property, as shown in the attached Paterson drawing, PH4600-1(Rev.04).

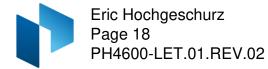
Based on the results of the predicted nitrate impact assessment, it is our opinion that the property can adequately support the proposed building addition without having an adverse impact on the underlying bedrock aquifer, provided that a Rewatec Ecoflo ECDn Model Series is used in the septic system.



CONCLUSIONS

Based on the information contained within the body of this report the following conclusions can be drawn:

- 1. The water supply aquifer intercepted by the existing well is considered to be adequate to support the water quantity demands for the proposed building addition.
- 2. Based on a visual inspection performed by Paterson personnel, the well casing, stickup, and well cap are in compliance with O.Reg 903. The final grading around the well will be sufficiently graded to direct surface water away from the wellhead at the time of the new sewage system installation.
- 3. The preferred water supply intercepted by TW1 contains a water supply that is potable, and contains only elevated concentrations of hardness, TDS, iron, and manganese. The noted parameters can be treated with current readily available water conditioning equipment.
- 4. Elevated concentrations of manganese were encountered in the water supply intercepted by TW1. Although only regulated for aesthetic reasons in Ontario (AO of 0.05 mg/L), the federal government of Canada has a MAC of 0.12 mg/L due to potential adverse effects on the central nervous system primarily in infants due to chronic exposure. This guideline has not been implemented by Ontario as of the writing of this report as the concentration of manganese is elevated above the Health Canada Federal Drinking Water Guidelines, a notice regarding the elevated levels of manganese in the aquifer accessed by TW1 is recommended to be registered on title so that future owners are made aware.
- 5. If desired by the property owner, a residential grade water softener can be used to facilitate the reduction of the hardness concentration and reduce scaling. If a water softener is used for the proposed development, the owner should be made aware that additional sodium will be added to the water to reduce hardness. If desired, a point-of-use reverse osmosis system can be used to provide a drinking tap source without increasing sodium levels.
- 6. The sodium concentration was measured to be above the 20 mg/L reporting limit and, as such, the Medical Officer of Health for the City of Ottawa should be informed to assist area physicians in the treatment of local residents on sodium reduced diets. It should be noted that some water treatment equipment may further increase the sodium concentration.
- 7. The predicted nitrate concentrations at the property boundary is calculated to be below the required 10 mg/L threshold when a standard denitrification system such as the Rewatec Ecoflo system is used.



- 8. A Sewage System Permit and Building Permit need to be issued prior to the commencement of construction on the proposed warehouse addition or the proposed septic system.
- 9. The owner will need to ensure that protective measures are taken to protect the wellhead, such as the use of a barrier, when constructing the proposed building addition.
- 10. The results of the Hydrogeological Assessment and Terrain Analysis have provided satisfactory evidence that the subject site can support the proposed building addition with respect to water quality, quantity and sewage system placement.

We trust that the current submission satisfies your immediate requirements.

Best Regards,

Paterson Group Inc.

Alexander Schopf, PhD, EIT

Attachments:

- Key Plan
- Arbaum Architects Drawing A-010, Demolition / New Site Plan dated June 13, 2023
- MECP Water Well Records
- Eurofins Certificate of Analysis
- Paterson Test Pit Logs
- AQTESOLV Pumping Test Analysis Reports
- Nitrate Impact Assessment Calculations
- Langelier Saturation Index (LSI) Calculation
- MECP Disinfection Instruction Sheet
- □ NSF Standard 245: Ecoflo Coco Filter ECDn Model Series
- Paterson Drawing PG6018-1 Test Hole Location Plan
- Paterson Drawing PH4600-1(rev.4) Sewage System Layout Plan
- Deterson Drawing PH4600-2(rev.4) Sewage System Details and Notes

Ottawa Head Office 9 Auriga Drive Ottawa – Ontario – K2E 7T9 Tel: (613) 226-7381 Ottawa Laboratory

28 Concourse Gate Ottawa – Ontario – K2E 7T7 Tel: (613) 226-7381 Northern Office and Laboratory 63 Gibson Street North Bay – Ontario – P1B 8Z4 Tel: (705) 472-5331



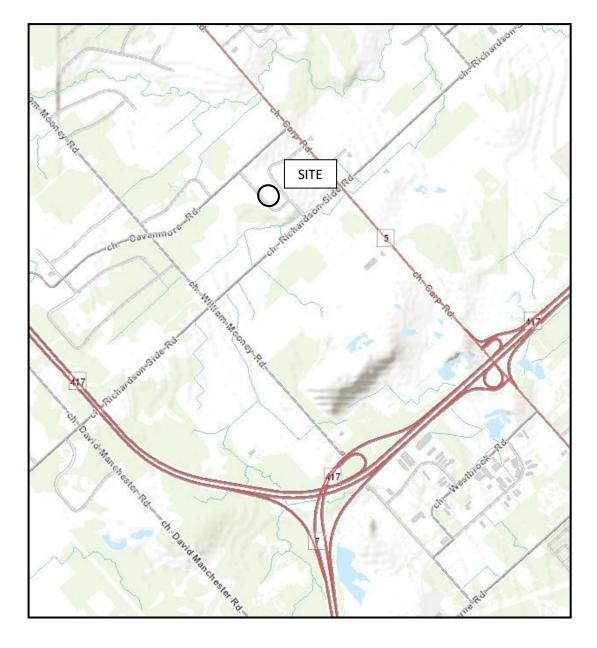
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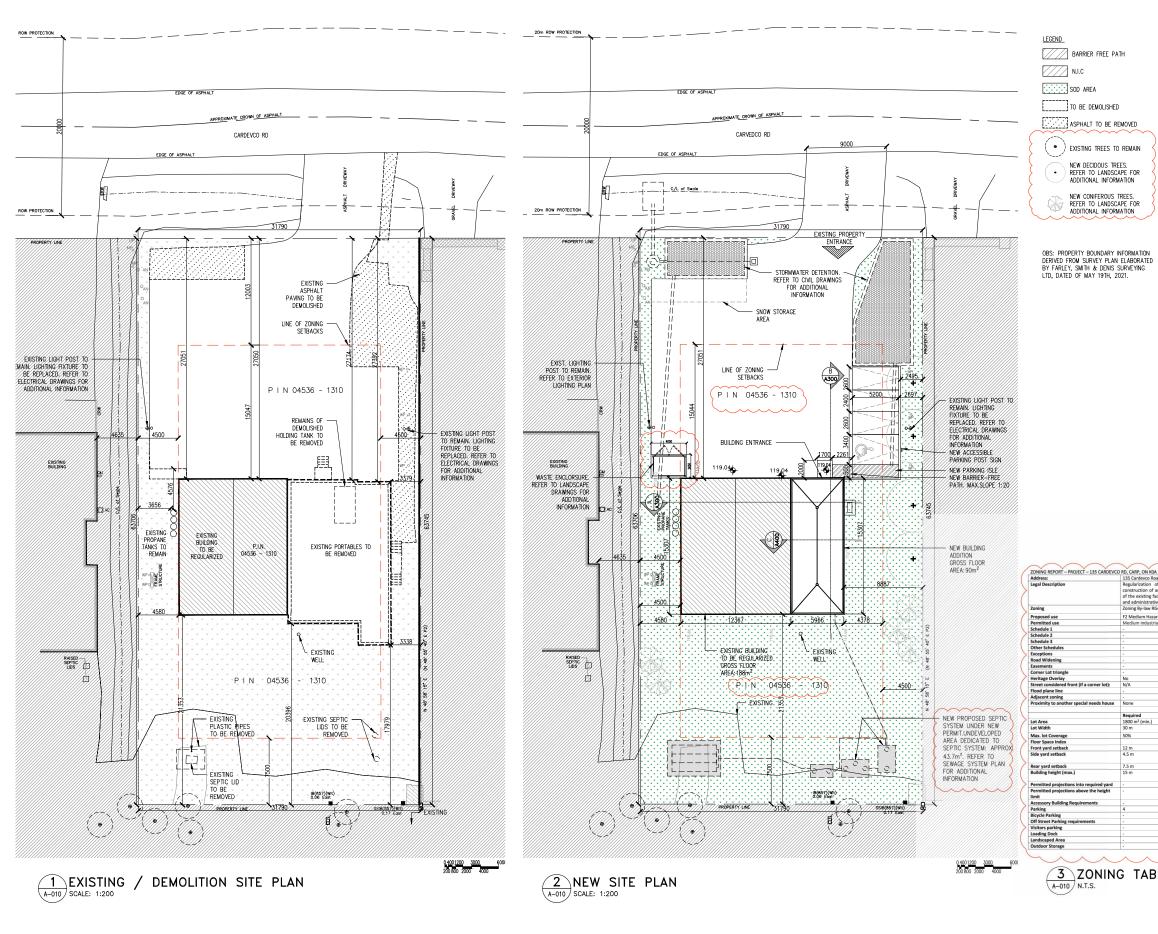




patersongroup -

FIGURE 1 KEY PLAN





arbaum ARCHITECTS

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		East: 8.89 (proposed)				
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2 [FRESH 3 SULPHUR ¹⁹ SALTY 4 MINERAL	4 OPEN HOLE		20-2	· · · · · · · · · · · · · · · · · · ·	EPTH SET	PLUGG	MATERIAL AN		NT GROUT
Z [FRESH 3 SULPHUR 24 SALTY 4 MINERAL	6 2 GALVANIZED 3 CONCRETE 4 DOPEN HOLE	22	2 275	F	ROM 10-13	TO 14-17		LEAD P	CKER. ETC.)
2	FRESH 3 _ SULPHUR ²⁹ SALTY 4 _ MINERAL	24-25 1 STEEL 26	275	5 380	,	18-21	22-25			
	□ FRESH 3 □ SULPHUR ^{34 0} □ SALTY <u>4</u> □ MINERAL	3 CONCRETE 4 🗭 OPEN HOLE	275	5 500		26-29	30-33	80		
71 PUMPING TEST ME	ETHOD 10 PUMPING RATI	4 9 15-16 17-11				LO	CATION	OF WEL	L	
STATIC LEVEL	WATER LEVEL 25	EVELS DURING 2 RECOVERY	5		IAGRAM LINE.		SHOW DISTAN	NCES OF WELL Y ARROW.	FROM ROAD A	ND
	22-24 15 MINUTES	30 MINUTES 45 MINUTES 60 MINUTES 8 29-31 32-34 35-3			\mathcal{C}	7		\frown	0.1	
	T 175 FEET 150 FE					QU	uhn s	Side	<u>Ka.</u>	-
U O FEE GVE RATE GVE RATE RECOMMENDED PU				6					Ň.	
	W DEEP SETTING	300 FEET RATE 5 GPM	4	*						
FINAL	5.4 : WATER SUPPLY	5 ABANDONED, INSUFFICIENT SUPPLY	-	\mathcal{A}					P	
STATUS OF WELL	2 1 OBSERVATION WEL 3 1 TEST HOLE 4 1 RECHARGE WELL	LL S ABANDONED, POOR QUALITY 7 UNFINISHED		ų.						
	55-56 1 DOMESTIC 2 STOCK	S COMMERCIAL						itless		
WATER USE	3 C IRRIGATION 4 C INDUSTRIAL	8 DEVICEPAL 7 PUBLIC SUPPLY 8 COOLING OR AIR CONDITIONING						adapter		
	0 OTHER	יאסז USED			\bigcap	Id	Ala	onto	Rd	
METHOD	CABLE TOOL 27			4		<u>'u</u>	_/1111	<u>n 11 cv</u>	<u> </u>	<u> </u>
DRILLING	4 🗆 ROTARY (AIR) 5 🐙 AIR PERCUSSION	9 🔲 DRIVING		DRILLERS REMA	RKS				04	681
NAME OF WELL	CONTRACTOR	LICENCE NUMBER	ק ה			58 CONT	RACTOR 59	-62 DATE RECEIVED	0502	8 ² ^{°°} ^{°°}
ADDRESS	tal Water Suppl	-		SOURCE	ECTION		INSPECTO	R	~) ~ 2	97
ANAME OF DRILL	490: Stittsvill	e, Ont. KOA 360	-							
NAME OF DRILL NAME OF DRILL SIGNATURE OF	iller/J. Moore		7	OFFICE						
LMU	Trulana,	ph) DAY_1 NO 2 YRC	3	ō						ES
MINISTRY	Y OF THE ENVIRON	MENT COPY							FORM NO. 0506	-4-// FORM 7

Minis of the	e			Ontario Water Re			RD
Ontario Envir	Onment	SPACES PROVIDED	15223				
COUNTY OR DISTRICT		TOWNSHIP, BOROUGH, CITY, TOWN VILLAGE		TO CON. BLOCK. TRACT.	14 15 SURVEY, ETC		Partipau
		Bux 13090 K		DNT. KZK I	H3 DAY	2_ MO	2 YR 8
i 2	10 12	17 18 25		RC ANSIN CODE			
	LC	DG OF OVERBURDEN AND BEDRO	CK MATERI			DEPTH	- FEET
GENERAL COLOUR	COMMON MATERIAL	STONE'S		GENERAL DESCRIPTI		FROM	то <i>9</i> ·
GREY	LIMESTONE	510102 5		//(9.	70'
GREY BLAC			~			70'	130'
				<u>.</u>			
							
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	······································						
31 32							
	ER RECORD	51 CASING & OPEN HOLE F	RECORD	SIZE (S) OF OPENING (SLOT NO)	31-33 DIAM	ETER 34-38	75 80 LENGTH 39-40
WATER FOUND AT - FEET	KIND OF WATER	DIAN MATERIAL THICKNESS	CM TO	MATERIAL AND TYPE		INCHES DEPTH TO TOP OF SCREEN	FEET 41-44 30
128 20	SALTY 4 1 MINERALS 6 3 GAS FRESH 3 SULPHUR 19	3 CONCRETE)' 22 ^{13,16}		GING & SEA		
20.23 1	A □ MINERALS 6 □ GAS FRESH 3 □ SULPHUR 24		20-21		MATERIAL AN	D TYPE (CEME	ENT GROUT ACKER. ETC)
25-28 []	SALTY 4 Iminerals 6 Gas Gas FRESH 3 Sulphur 29 4 Minerals 1 1	3 CONCRETE 4 DOPEN HOLE 5 PLASTIC 24-25 26	27-30	10-13 14-1			
30-33 1	SALTY 4 MINERALS SALTY 6 GAS FRESH 3 JSULPHUR 34 SALTY 6 GAS	1 □ STEEL 2 □ GALVANIZED 3 □ CONCRETE 4 □ OPEN HOLE			3 80		
PUNPING TEST METH				LOCATIO	N OF WEL	. L	
1 DUMP 4	WATER LEVEL 23 END OF WATER L	12 GPN 215-16 17-18 HOURS 17-18 HOURS 1 □ PUMPING		IAGRAM BELOW SHOW DIS		FROM ROAD A	ND 7
L S 19-21	PUMPING 22-24 15 MINUTES 26-1	8 29-31 32-34 35-37				×	
	80 FEET 80 FEI 38-41 PUMP INTAKE	SET AT WATER AT END OF TEST 42	010	ALMONTE R	UAD X		
U FEET IF FLOWING. GIVE RATE	PUMP	FEET 1 CLEAR & CLOUDY D 43-45 RECOMMENDED 44-49 PUMPING C	CARP PARK		XL		
50-53	DEEP SETTING	100 FEET RATE GPM			142		
FINAL STATUS	1 🗗 WATER SUPPLY 2 🗋 OBSERVATION WEI		QUEENSWAY- JNDUSTRIAL	0.	איאביכ		
OF WELL	3 TEST HOLE 4 RECHARGE WELL	7 UNFINISHED 9 Dewatering	QUE JNJ	×	m		
WATER	2 STOCK 3 IRRIGATION	S COMMERCIAL G MUNICIPAL 7 PUBLIC SUPPLY			No		
USE	4 INDUSTRIAL OTHER 	COOLING OR AIR CONDITIONING			0		
METHOD	57 1 💢 CABLE TOOL 2 🗌 ROTARY (CONVEN) 3 🔲 ROTARY (REVERSE						+
-	N 4 C ROTARY (AIR) S AIR PERCUSSION	DRIVING DIGGING OTHER	CON DRILLERS REMA	IAN SOE ROAD		REAL	ROAD
NAME OF WELL C		FIL RILLING 3142		SA CONTRACTOR	33-62 DATE RECEIVED	JUN 13	1988
ADDRESS ADDRESS AR2 (NAME OF WELL)	AGH ESON W. CARLETON	PLACE		PECTION			
NAME OF WELL	ATECHNICLAN	64 WELL TECHNICIANS LICENCE NUMBER T-0194	D REMARKS				
SIGNATURE OF	ALL TOLOGY	10 MISSION DATE	OFFICE				ssifer
MINICTRY	F THE ENVIRONI		· · · ·		F	DRM NO. 0506 (1	11/86) FORM 9

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Mini	•						Water Resou			
of th Envi	ie ironment		W	_`	ER	W	ELL	RE	CO	R
Intario		SPACES PROVIDED	[11	ר ד	5225	96		5 .		
OUNTY OR DISTRICT	2. CHECK 🔀 CORF	TOWNSHIP, BOP	ROUGH CITY, TOWN, VI				BLOCK, TRACT, SURV			22 23 LOT 25-2
Ottas	va-Carleton	West	Carleton -	Huntl	ey		Conc.	DATE COMP	PLETED	6
			017 Route :				· · · · ·	DAY	мо	<u>YR.</u> 88
1 2	10 12	17 10	47NG		ELEVATION			" 		
• • • •		OG OF OVERE	URDEN AND B	EDROCI		LS (SEE)	NSTRUCTIONS)			
GENERAL COLOUR	MOST COMMON MATERIAL		THER MATERIALS			GENER	AL DESCRIPTION		DEPTH FROM	- FEET TO
Brown	Clay				Pa	cked			0	6
Gray	Clay	Boulder	s		Pa	cked			6	9
Gray	Clay	Sand &	· · · · · · · · · · · · · · · · · · ·			cked			9	16
Gray	Limestone	Brown]	layers		Me	dium			16	125
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			10. IS NO.	· · · · · · · · · · · · · · · · · · ·						
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31										
			32		<u></u>			31-33 DIAME	TER 34-38 L	75
WATER FOUND		INSIDE	SING & OPEN H	DEP	CORD		TNOI		INCHES	FE
	FRESH 3 SULPHUR	INCHES	TERIAL THICKNESS INCHES	FRUM	TO 13-16	S CR	RIAL AND TYPE		DEPTH TO TOP OF SCREEN	41-44 FEET
15-10 I	6 □ GAS		LVANIZED NCRETE EN HOLE	0	22	[61]	PLUGGIN	G & SEAL		
	FRESH 3 . SULPHUR 24	17-18 1 D STE	19		20-23	DEPTH	SET AT - FEET	MATERIAL AND		NT GROUT
	SALTY 4 CIMINERALS 6 CIGAS FRESH 3 SULPHUR	1 ≤ 3 □ co	NCRETE EN HOLE Istic	22	125	1	0-13 14-17			
2 []	SALTY 4 □ MINERALS 6 □ GAS FRESH 3 □ SULPHUR	24-25 1 🗆 STE 2 🗆 GAI 3 🗆 COI	26 EL LVANIZED NCRETE		27-30		8-21 22-25			
	A □ MINERALS SALTY 6 □ GAS	4 0 0 PL	EN HOLE							
71 PUMPING TEST NET	HOD 10 PUMPING RAT	е 11-14 du 20 gpm _	RATION OF PUMPING 15-16 2 HOURS	17-18		L	OCATION (OF WEL	L	
STATIC LEVEL	WATER LEVEL 25	LEVELS DURING	1 PUMPING 2 RECOVERY		LOT LI		OW SHOW DISTANC DICATE NORTH BY A		FROM ROAD A	ND
	22-24 15 MINUTES 26-	28 29-31	45 MINUTES 60 MIN 31-34	UTES 35-37	Conc. H		1. the a			
	20 FEET 20 FE 38-41 PUMP INTAKE	ET 20 FEET	20 FEET 20) FEET			A lis	ne		
GIVE RATE	GPN MP TYPE RECOMMENDE		CLEAR 1 CL	OUDY					0.00	
G SHALLOW	DEEP SETTING	60 FEET RA	mping te 5	GPM		ď.	4	- 90m	-	
	S4 1 CL WATER SUPPLY	• [] ARAND	DNED. INSUFFICIENT SU			Z	5°'6"\.	AA OI + 10	es ,	
FINAL STATUS	2 DOBSERVATION WE		NED POOR QUALITY			d-		a	daptor.	
OF WELL	RECHARGE WELL S-S6 1 T DOMESTIC	9 🗆 DEWATE 5 🗌 COMMERCIA	·····		2	ġ				
WATER	2 🗌 STOCK 3 🗍 IRRIGATION	6 🗌 MUNICIPAL 7 🗍 PUBLIC SUF	PLY		(m ^{.3} .	27				
USE	4 I INDUSTRIAL		AIR CONDITIONING		C.	\sim	N#5			
METHOD	57 1 CABLE TOOL 2 ROTARY (CONVEN		BORING DIAMOND							
OF CONSTRUCTIO	3 C ROTARY (REVERSE	E) • 🗆	JETTING DRIVING						38	189
NAME OF WELL	AIR PERCUSSION	<u> </u>	DIGGING OTHER		DRILLERS REMARK			DATE RECEIVE		63-68
1	L Water Supply	Ltd.	LICENCE NUMB	ER	DATA SOURCE		1558	SEP	01 198	8
Capita ADDRESS BOX 49	0; Stittsville	, Ont. KOA	3G0	11.	u l	CTION	INSPECTOR			
S. Mil	L TECHNICIAN		WELL TECHNIC LICENCE NUME							
SIGNATURE OF	TECHNICIAN/CONTRACTOR	SU BMISS	ПОN DATE 24 мо. С. т.	- PU	OFFICE					Gr
	Y OF THE ENVIRO							FO	CSS. RM NO. 0506 (1	1/86) FORM

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Ontario Env	rironment	SPACES PROVIDED	·	15232		ELL F		
COUNTY OR DISTRICT	2. CHECK 🗵 CORF	TOWNSHIP. BOROUGH. CITY	TOWN. YHEAGE		CON. B	10 14	15	LOT 23-27
()-rai	In (DPLET	VI ILES	ST CAR	LETON	/ =	#3	DATE COMPLETED	6
		RI	± 2	Ca	np		DATE COMPLETED	9 88
		ing 1 t t		ELEVATION	/ #C	AASIN CODE		
	¹⁰ 12	OG OF OVERBURDEN	AND BEDRO		ALS ISEE INS	31 TRUCTIONS 1		47
GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MAT	ERIALS		GENERAL	DESCRIPTION	FRO	DEPTH - FEET
Roma	Bro sil				Pac	KED		
BROWN	Sour				- HC			10
BROUN		Boulder	S GRAU	FI	LOOSE	- -	10	16
REFL	LIMESTONE	RIGERLIMES	TOME & ()	ingerz)	M	En HARI	2	1 LK
	KINESCOL		in Ery	yun -j			~ / ~	
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					j.			
31								
				43		OF OPENING 31	-33 DIAMETER 3	-38 LENGTH 39-40
WATER FOUND		51 CASING & C		ECORD			INC	
AT - FEET	FRESH 3 SULPHUR	DIAM MATERIAL	THICKNESS FRU		G MATERI	AND TYPE	DEPTH TO OF SCREE	TOP 41-44 30
	$\begin{array}{c} 4 \square \text{ minerals} \\ 6 \square \text{ gas} \end{array}$ FRESH 3 \square Sulphur 19	10 STEEL 2 GALVANIZED 3 CONCRETE	,188 C	> 19""				FEET
	SALTY 6 GAS	14 4 □ OPEN HOLE 5 □ PLASTIC 19 10 STEEL	s	20-3	61 DEPTH SE	LAT'S FEET	& SEALING R	CEMENT GROUT
z [☐ FRESH 3 □SULPHUR ²⁴ 4 □ MINERALS 5 ALTY 6 □ GAS	2 GALVANIZED 3 CONCRETE 4 POPEN HOLE	19	HS	F ROM	10		EAD PACKER ETC)
	SALTY 6 GAS	5 □ PLASTIC 24-25 1 □ STEEL 26	5	27-30	11 12	19	EALENT	GROW
	FRESH 3 USULPHUR 34	C GALVANIZED 3 CONCRETE 4 COPEN HOLE 5 C PLASTIC			26-2	30-33 40		
PUMPING TEST ME			· · · · · · · · · · · · · · · · · · ·] [
		E B-14 DURATION OF PU	JMPING				WELL	
	2 BAILER	GPMH	16 17-18 RS MINS	IN D		CATION OF		DAD AND
STATIC LEVEL	WATER LEVEL 25 END OF WATER L PUMPING	LEVELS DURING	16 17-18 RS MINS PUMPING RECOVERY	IN DI LOT	AGRAM BELOW	CATION OF	OF WELL FROM RO	DAD AND
	WATER LEVEL END OF PUMPING 1 20 15 MINUTES 2 0 -	GPN HOUT LEVELS DURING 1 30 MINUTES 45 MINUTES 24 2 20 30-31	16 17-18 RSMINS PUMPING RECOVERY -34 2 35-37	LOT	AGRAM BELOW	SHOW DISTANCES	OF WELL FROM RO	DAD AND
	WATER LEVEL END OF PUMPING 1 20 15 MINUTES 2 0 -	LEVELS DURING 20 20 20 20 20 20 20 20 20 20	17.18 RSMINS PUMPING RECOVERY 60 MINUTES -34 2035.37 ET FET OF TEST	LOT	AGRAM BELOW	SHOW DISTANCES	OF WELL FROM RC DW.	DAD AND
	WATER LEVEL END OF PUMPING 22-24 IS MINUTES T 20 FEET	LEVELS DURING CONTRUCTES CONTRUCTES CONTRUCTES CONTRUCT CONT	16. 17-18 RSMINS PUMPING RECOVERY 60 MINUTES -34 2035-37 ET FEET	LOT	Dire Indic	REG	DF WELL FROM RODW.	DAD AND
STATIC LEVEL 19-20 STATIC LEVEL 19-20 IF FLOWING GIVE RATE	WATER LEVEL END OF PUMPING 1 20 7 FEET 20 80.01 PUMP INTAKE GPM RECOMMENDER PUMP	LEVELS DURING 20 21 22 230 MINUTES 24 25 MINUTES 25 AI 55 F AI 55 F AI 56 F AI 56 F AI 56 F AI 57 F AI 57 F AI 58	17-10 RS	LOT	Dire Indic	REG	DF WELL FROM RODW.	DAD AND
STATIC LEVEL 19-2 SU SU SU SU SU SU SU SU SU SU SU SU SU	WATER LEVEL END OF PUMPING 1 20 7 FEET 20 80.01 PUMP INTAKE GPM RECOMMENDER PUMP	LEVELS DURING CPM LEVELS DURING 1 LEVELS DURING 1 LEVELS DURING 2 LEVELS DURING 2 LEVELS DURING CPM LE	17-18 RS	LOT	Dire Indic	SHOW DISTANCES	DF WELL FROM RODW.	
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STATIC LEVEL IF FLOWING GIVE RATE FECOMMENDED PU SHALLOV SO-S3 FINAL STATUS OF WELL WATER	WATER LEVEL END OF PUMPING 1 20 FEET 2 0 FEET 4 FEET 4 DEEP SETTING STATUS STAT	LEVELS DURING LEVELS DURING 24 23 24 20 25 25 26 27 27 27 27 27 27 27 27 27 27	17-18 RS	LOT	Dire Indic	REG	of well from roow.	
STATIC LEVEL IF FLOWING GIVE RATE RECOMMENDED PU SHALLOV SO-S3 FINAL STATUS OF WELL	WATER LEVEL END OF PUMPING 22-24 IS MINUTES FEET 200-7 FEET 200-7 FEET 200-7 FEET 200-7 FEET 200-7 FEET 200-7 FEET PUMP INTAKE OF PUMP INTAKE PUMP INTAKE PUMP INTAKE PUMP INTAKE SOURCE SUPPLY 2 OESERVATION WEI 3 TEST MOLE 4 RECHARGE WELL 25-56 1 B DOMESTIC 2 STOCK	LEVELS DURING COMMENCIAL COMMERCIAL COMMENCIAL COMMENCIAL COMMENCIAL COMMENCIAL COMMENCIAL COMMENCIAL COMMENCIAL COMMENCIAL COMMENCIAL COMMENCIAL COMMENCIAL COMMENCIAL COMMENCIAL COMMENCIAL	17-18 RS	LOT	Dire Indic	REG	of well from roow.	DAD AND
STATIC LEVEL 19-21 IF FLOWING GIVE RATE RECOMMENDED PU SHALLOU SO-33 FINAL STATUS OF WELL WATER USE	WATER LEVEL END OF PUMPING 22-24 IS MINUTES 24-24 IS MINUTES 24	LEVELS DURING and an analysis of the second	17-18 RS	LOT	Dire Indic	REG	br well from roow.	KAN A
STATIC LEVEL IF FLOWING GIVE RATE FECOMMENDED PU SHALLOU IO-SI SHALLOU SHAL SHAL SHAL SHAL SHAL SHAL SHAL SHAL	WATER LEVEL END OF PUMPING 1 20 FEET 22-24 15 MINUTES 2 04- FEET 204- FEET 204- F	LEVELS DURING 24 23 24 25 26 27 27 27 27 27 27 27 27 27 27	17-18 RS	LOT	Dire Indic	REG	br well from roow.	KAN A
STATIC LEVEL IF FLOWING GIVE RATE FECOMMENDED PU SHALLOU 30-33 FINAL STATUS OF WELL WATER USE METHOD	WATER LEVEL END OF PUMPING 1 20 FEET 22-24 15 MINUTES 2 04- FEET 204- FEET 204- F	LEVELS DURING a 30 MINUTES a 43 41 b 43 41 c commendation c commencial c c c c c c c c c c c c c c c c c c c	17-10 RS	LOT	LINE INDIC	REG	of well from roow.	S9003
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STATIC LEVEL IF FLOWING GIVE RATE FECOMMENDED PU SHALLOU SHALLOU SOF WELL WATER USE METHOD OF CONSTRUCTI	WATER LEVEL END OF PUMPING 22-24 1 20 FEET	LEVELS DURING a 30 MINUTES 24 30 MINUTES 25 4 30 MINUTES 26 2 30 -31 2 32 32 27 45 MINUTES 28 45 MINUTES 29 43 43 RECOMMENDED 20 43 43 RECOMMENDED 20 7 EET RATE 20 6 7 EET RATE 20 7 EET RATE	17-10 RSNINS PUMPING RECOVERY 60 MINUTES -34 2 31-37 ET 2 3-37 ET 60 MINUTES 10 15 60 MINUTES 40-43 GPM FICIENT SUPPLY QUALITY TIONING USED OTHER	DRILLERS REMAR	AGRAM BELOW LINE INDIC O CARP	REG S'	House well	S9003
STATIC LEVEL IF FLOWING GIVE RATE FECOMMENDED PU SHALLOU SOF WELL WATER USE METHOD OF CONSTRUCTI	WATER LEVEL END OF PUMPING 22-24 1 20 FEET	LEVELS DURING GPM LEVELS DURING 1 2 30 MINUTES 2 2 30 MINUTES 2 2 2 30 MINUTES 43 MINUTES SET AT C FEET 43 MATER AT END C 43 MATER AT END C FEET 43 MATER AT END C 1 UNFINISHED 5 COMMERCIAL 5 COMMERCIAL 5 COMMERCIAL 5 MUNICIPAL 7 PUBLIC SUPPLY 6 COOLING OR AIR CONDI 5 D DIAMOND 6 J DIAMOND 6 J DIGGING WELL LICEN WELL LICEN	17-10 RS	DRILLERS REMAR	AGRAM BELOW LINE INDIC O CARP	REG ATE NORTH BY ARRI	House well	89003
STATIC LEVEL IF FLOWING GIVE RATE FECOMMENDED PU SHALLOU SO 33 FINAL STATUS OF WELL WATER USE METHOD OF CONSTRUCTI	WATER LEVEL END OF PUMPING 22-24 15 MINUTES 2004 FEET 2004 FEET 2004 FEET 2004 FEET 2004 FEET 2004 FEET PUMP INTAKE CPM RECOMMENDED PUMP SETTING 34 1 0 WATER SUPPLY 2 OBSERVATION WEL 3 OBSERVATION 3 OBSERVATION WEL 3 OBSERVATION 3 OBSERVATION	LEVELS DURING GPM LEVELS DURING 1 2 30 MINUTES 2 2 30 MINUTES 2 2 2 30 MINUTES 43 MINUTES SET AT C FEET 43 MATER AT END C 43 MATER AT END C FEET 43 MATER AT END C 1 UNFINISHED 5 COMMERCIAL 5 COMMERCIAL 5 COMMERCIAL 5 MUNICIPAL 7 PUBLIC SUPPLY 6 COOLING OR AIR CONDI 5 D DIAMOND 6 J DIAMOND 6 J DIGGING WELL LICEN WELL LICEN	17-10 RSNINS PUMPING RECOVERY 60 MINUTES -34 20 FIEST 40-49 J5 GPM FICIENT SUPPLY QUALITY TIONING USED OTHER CONTRACTOR'S CONTRACTOR'S CONTRACTOR'S CONTRACTOR'S CONTRACTOR'S	DRILLERS REMAR	AGRAM BELOW LINE INDIC COCORP LA A RKS SI CO SI CO	REG ATE NORTH BY ARRI	be well from re by S S House House JAN 09	89003
STATIC LEVEL ID-22	WATER LEVEL END OF PUMPING 22-24 15 MINUTES 2004- FEET 2004- FEET 2004- FEET 2004- FEET 2004- FEET 2004- FEET 2004- FEET 2004- FEET 2004- FEET 2004- SETTING 34 1 1 WATER SUPPLY 2 OBSERVATION WEL 3 OBSERVATION 4 OBSERVATI	CONTRACTOR CONTRACTOR CONTRA	17-10 RS	DRILLERS REMAR DRILLERS REMAR DATE OF INS BATE OF INS	AGRAM BELOW LINE INDIC COCORP LA A RKS SI CO SI CO	REG ATE NORTH BY ARRI	be well from re by 5 	KH (* 19003

Minis of the Envir	•	WAT		o Water Resources Act	CO	RD
Ontario	1. PRINT ONLY IN 2. CHECK 🗵 CORR	SPACES PROVIDED	1523820		N	03
COUNTY OR DISTRICT		TOWNSHIP, BOROUGH, CITY, TOWN VILLAGE	c	ON BLOCK. TRACT. SURVEY ETC		ot 25-27 6
		. #3 Carp,Onta	rio KON 110	DATE COM		
					i l	
	M 10 12	G OF OVERBURDEN AND BEDRO			<u> </u>	47
GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	1	NERAL DESCRIPTION	DEPTH -	FEET
Brown	Sand	Stones	I	loose	0	6
Gray	Sand	Boulders	1	Packed	6	20
Gray	Limestone	Black Layers	P	Medium Soft	20	260
1						
	1 1 1 1 1 1					1.1.1
31 32				╛╘ ╻╻╻╽╎╻╽╻ ╷╷╷╷╷		
1 2 10	TER RECORD	51 CASING & OPEN HOLE F	RECORD	54 65 SIZE (S) OF OPENING 31-33 DIAM (SLOT NO.)	IETER 34-38 LI	75 80 ENGTH 39-40
WATER FOUND AT - FEET	KIND OF WATER	DIAM MATERIAL THICKNESS		MATERIAL AND TYPE	INCHES DEPTH TO TOP OF SCREEN	FEET 41-44 30
22 2	U L GAS	6 1/4 1 STEEL 12 2 GALVANIZED -188 3 CONCRETE	0 22 [°] 0	27 -		FEET
110	SALTY 6 CI GAS	4 □ OPEN HOLE 5 □ PLASTIC 17-18 1 □ STEEL 19	20-23 DE	PLUGGING & SEA	CEMER	T GROUT
2 🗆	FRESH 3 DSULPHUR 4 DMINERALS 5ALTY 6 DGAS	5 7/8 GALVANIZED 5 5 7/8	22 260	10-13 14-17		CKER. ETC)
2 [] 30-33 1 []	FRESH 3 I SULPHUR 29 A MINERALS MINERALS 6 GAS FRESH 3 SULPHUR 34 MINERALS SALTY 6 GAS GAS GAS	24-25 1 STEEL 26 2 GALVANIZED	27-30	Grouted Ce 26-29 30-33 80	ment	
71 PUMPING TEST MET	HOD 10 PUMPING RAT			LOCATION OF WEI	LL	
1 D PUMP STATIC LEVEL 19-21	WATER LEVEL 25 END OF WATER PUMPING 22-24 15 NINUTES 26-2	Z GPM HOURS MINS LEVELS DURING 1 PUMPING 2 1 RECOVERY 30 MINUTES 45 MINUTES 60 MINUTES 18 29-31 32-34 35-37	IN DIAGRAM LOT LINE	BELOW SHOW DISTANCES OF WELL INDICATE NORTH BY ARROW.	L FROM ROAD AN	ND
U RATE	Sã-ĜI PUMP INTAKE GPM	SET AT WATER AT END OF TEST 42 FEET 1 CLEAR 2 St CLOUDY				
SHALLOW	PUMP	D 43-45 RECOMMENDED 46-49 PUMPING 250 FEET RATE 2 GPM		(not	-	
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FINAL STATUS	WATER SUPPLY OBSERVATION WE TEST HOLE	S ABANDONED, INSUFFICIENT SUPPLY ABANDONED POOR QUALITY UNFINISHED		2.dev co	Carp Rd	
OF WELL	4 C RECHARGE WELL	D DEWATERING COMMERCIAL		C a	ပိ	
WATER USE	2 STOCK 3 IRRIGATION 4 INDUSTRIAL OTHER	COMMERCIAL	98'			
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J. MOOT	TECHNICIAN / CONTRACTOR	SUBMISSION DATE	OFFICE			_
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					SIZE(S) OF OPENING	31-33 DIAMET	ER 34-38	
41 W	ATER RECORD	51 CASING & OF		ECORD	Z ISLOT NO) W MATERIAL AND TYPE			FEET
2 - 4-12 1	FRESH 3 SULPHUR	INCHES	INCHES FRO		MATERIAL AND TYPE		DEPTH TO TOP OF SCREEN	41-44 30 FEET
/15-10 1	FRESH 3 ULPHUR	2 GALVANIZED 3 CONCRETE 4 COPEN HOLE 5 PLASTIC	188 0	2213416	61 PLUG	GING & SEAL	ING RECO	DRD
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	FRESH 3 USULPHUR 24	77 1 STEEL 19		20-23	DEPTH SET AT - FEET FROM TO	MATERIAL AND		ENT GROUT ACKER. ETC)
2	□ SALTY 6 □ GAS	17.10	22	20-23	DEPTH SET AT - FEET	MATERIAL AND		ENT GROUT ACKER, ETC)
25-28 1 1 25-28 1 2 25-28	□ SALTY 4 □ MINERALS 6 □ GAS □ FRESH 3 □ SULPHUR ²⁹ □ SALTY 4 □ MINERALS 6:□ GAS	4/1 ⁶ 2 GALVANIZED 3 GONCRETE 4 OFFEN HOLE 5 PLASTIC 24-25 1 STEEL 26 24-25 1 STEEL 26 2 GALVANIZED 2 GALVANIZED	22	1	DEPTH SET AT - FEET FROM TO 010-13 20 4 18-21 222	MATERIAL AND 17 Cemen 25		ENT GROUT ACKER, ETC)
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23-26 1 .2 .2 .2 .2 .2 .2 .2 .2 .2 .2 .2 .2 .2	SALTY 4 MINERALS G GAS 5 SALTY FRESH 3 SULPHUR SALTY 4 MINERALS G GAS 5 SALTY G GAS 6 GAS FRESH 3 SULPHUR SALTY 6 GAS	1 □ STEEL 19 2 GALVANIZED 3 3 CONCRETE 4 4 OPEN HOLE 5 24-25 1 STEEL 2 GALVANIZED 3 3 CONCRETE 26 2 GALVANIZED 3 3 CONCRETE 4 4 OPEN HOLE 5 9 PLASTIC 13-16 0 GPM 15-16 4 OPEN HOLE 10 9 PLASTIC 13-16 9 GPM 13-16 9 GPM 2 EVELS DURING 1 100 30 MINUTES 45	17-18 MINS IMPING ECOVERY 60 MINUTES	2 50' 27-30	DEPTH SET AT FEET FROM TO 10-13 20 4- 18-21 22- 26-29 30- L O C A T I O GRAM BELOW SHOW DIS	MATERIAL AND ATT CEMEN ATT CEMEN ATT CEMENT ATT AND ATT AND	TYPE LEAD P.	ENT GROUT ACKER. ETC ;
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23-28 1 25-28 1 20-33 1 20-	SALTY 4 MINERALS SALTY 4 MINERALS GAS FRESH 3 SULPHUR SALTY 4 MINERALS SALTY 4 MINERALS SALTY 4 MINERALS SALTY 6 GAS SALTY SALTY 6 GAS SALTY 6 GA	1 STEEL 19 2 GALVANIZED 3 3 CONCRETE 4 4 OFEN HOLE 5 2 GALVANIZED 3 3 CONCRETE 26 2 GALVANIZED 3 3 CONCRETE 26 3 CONCRETE 3 4 OPEN HOLE 5 9 PLASTIC 3 1 OURATION OF PUMP 15.16 6 OPEN HOLE 5 9 PLASTIC 15.16 9 GPM 10.01 6 GPM 2 10 GPM 3 10 GPM 3 <td>17-18 MINS COVERY 60 MINUTES 35-37 FEET TEST 42 2 CLOUDY</td> <td>2 50' 27-30</td> <td>DEPTH SET AT FEET FROM TO 10-13 20 4- 18-21 22,- 26-29 30 L O C A T I O GRAM BELOW SHOW DIS</td> <td>MATERIAL AND ATT CEMEN ATT CEMEN ATT CEMENT ATT AND ATT AND</td> <td>TYPE LEAD P.</td> <td>ENT GROUT ACKER. ETC ;</td>	17-18 MINS COVERY 60 MINUTES 35-37 FEET TEST 42 2 CLOUDY	2 50' 27-30	DEPTH SET AT FEET FROM TO 10-13 20 4- 18-21 22,- 26-29 30 L O C A T I O GRAM BELOW SHOW DIS	MATERIAL AND ATT CEMEN ATT CEMEN ATT CEMENT ATT AND ATT AND	TYPE LEAD P.	ENT GROUT ACKER. ETC ;
ZS-28 1 2S-28 1 2S-28 1 20-33 1 20-50	SALTY 4 UMINERALS SALTY 4 UMINERALS GAS FRESH 3 SULPHUR SALTY 4 UMINERALS SALTY 4 UMINERALS SALTY 4 UMINERALS SALTY 6 GAS	1 □ STEEL 19 2 □ GALVANIZED 3 □ CONCRETE 3 □ CONCRETE 9 □ OFEN HOLE 5 □ PLASTIC 24-25 24-25 1 □ STEEL 2 □ GALVANIZED 3 □ GONCRETE 3 □ CONCRETE 3 □ GONCRETE 4 □ OPEN HOLE 5 □ PLASTIC 5 □ PLASTIC 15.16 GPM 15.16 GPM 1000000000000000000000000000000000000	17-18 MINS COVERY 60 MINUTES 35-37 FEET TEST 42	2 50' 27-30	DEPTH SET AT FEET FROM TO 10-13 20 4- 18-21 22,- 26-29 30 L O C A T I O GRAM BELOW SHOW DIS	MATERIAL AND ATTERIAL AND ATTERIAL ATTERIAL AND ATTERIAL ATTERIAL AND ATTERIAL AND ATTERIAL ATTERIAL AT	TYPE LEAD P.	
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Z Z Z Z Z Z Z Z Z Z Z Z Z Z	□ SALTY 4 UMINERALS □ SALTY 4 UMINERALS □ FRESH 3 SULPHUR 29 □ SALTY 4 UMINERALS □ SALTY 4 UMINERALS □ SALTY 6 GAS □ FRESH 3 SULPHUR 34 ■ MINERALS □ SALTY 6 GAS ■ MINERALS ■ SALTY 6 GAS ■ MINUTES ■ SALTY 6 GAS ■ SALTY 6 GAS		17-18 MINS COVERY 60 MINUTES 33-37 FEET TEST 42 2 CLOUDY 46-69 GPM CLENT SUPPLY	2 50' 27-30	DEPTH SET AT FEET FROM TO 10-13 20 4- 18-21 22,- 26-29 30 L O C A T I O GRAM BELOW SHOW DIS	MATERIAL AND ATERIAL AND ATERIAL ATER	TYPE LEAD P.	
Z25-28 1 25-28 1 20-33 1 20-20 2	□ SALTY 4 MINERALS □ FRESH 3 SULPHUR 29 □ SALTY 4 MINERALS 29 □ SALTY 4 MINERALS 29 □ FRESH 3 SULPHUR 34 □ BAILER 1 4 WATER LEVEL 25 WATER L PUMPTING IS MINUTES 26-2 20 FEET FEET 90 FEET FEET 90 GPM GPM 90 DEEP SETTING 1 WATER SUPPLY 2 1 OBSERVATION WEI 2 OBSERVATION WEI 34 1 1 OBSERVATION WEI 3 TEST HOLE 4 RECHARGE WELL 35-54 1		17-18 MINS COVERY 60 MINUTES 33-37 FEET TEST 42 2 CLOUDY 46-69 GPM CLENT SUPPLY	2 50' 27-30	DEPTH SET AT - FEET FROM TO 010-13 20 4 18-21 232 24-29 30-2 LOCATIO SRAM BELOW SHOW DIS SRAM BELOW SHOW DIS NE INDICATE NORTH	MATERIAL AND ATERIAL AND ATERIAL ATER	TYPE LEAD P.	AND
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Z25-28 1 225-28 1 225-28 1 20-33 1 20-20 20-2	□ SALTY 4 MINERALS □ FRESH 3 SULPHUR 29 □ SALTY 4 MINERALS 29 □ SALTY 4 MINERALS 34 □ FRESH 3 SULPHUR 34 □ BAILER 1 WATER LEVEL ■ PUMPING WATER LEVEL 25 # 1 J22-24 15 MINUTES 21 J20 FEET FEET FEET FEET FEET FEET PUMP TYPE OBSERVATION WED 9 9 0 TEST HOLE 4 OBSERVATION WED 9 3 1 GRMOMESTIC 2 STOCK 3 <td>1 □ STEEL 19 2 GALVANIZED 3 3 □ CONCRETE 4 □ PEN HOLE 3 □ CONCRETE 4 □ PEN HOLE 3 □ CONCRETE 4 □ OPEN HOLE 3 □ CONCRETE 4 □ OPEN HOLE 5 □ PLASTIC 11-14 □URATION OF PUMP 10-15 □ PLASTIC 11-14 □URATION OF PUMP 12 □ CALL 130 MINUTES 141 □URATION OF PUMP 151 □ COMMERCIAL 161 □ COMMERCIAL 17 □ PUBLIC SUPPLY 181 □ COOLING OR AIR CONDITIC</td> <td>17-18 MINS COVERY 60 MINUTES 33-37 FEET TEST 42 2 CLOUDY 46-69 GPM CLENT SUPPLY UALITY</td> <td>2 50' 27-30</td> <td>DEPTH SET AT - FEET FROM TO 010-13 20 4 18-21 232 24-29 30-2 LOCATIO SRAM BELOW SHOW DIS SRAM BELOW SHOW DIS NE INDICATE NORTH</td> <td>MATERIAL AND ATERIAL AND ATERIAL ATER</td> <td>TYPE LEAD P.</td> <td>AND</td>	1 □ STEEL 19 2 GALVANIZED 3 3 □ CONCRETE 4 □ PEN HOLE 3 □ CONCRETE 4 □ PEN HOLE 3 □ CONCRETE 4 □ OPEN HOLE 3 □ CONCRETE 4 □ OPEN HOLE 5 □ PLASTIC 11-14 □URATION OF PUMP 10-15 □ PLASTIC 11-14 □URATION OF PUMP 12 □ CALL 130 MINUTES 141 □URATION OF PUMP 151 □ COMMERCIAL 161 □ COMMERCIAL 17 □ PUBLIC SUPPLY 181 □ COOLING OR AIR CONDITIC	17-18 MINS COVERY 60 MINUTES 33-37 FEET TEST 42 2 CLOUDY 46-69 GPM CLENT SUPPLY UALITY	2 50' 27-30	DEPTH SET AT - FEET FROM TO 010-13 20 4 18-21 232 24-29 30-2 LOCATIO SRAM BELOW SHOW DIS SRAM BELOW SHOW DIS NE INDICATE NORTH	MATERIAL AND ATERIAL AND ATERIAL ATER	TYPE LEAD P.	AND
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County or District	t	Township/Borough/City/	Town/Village		Con block tract	survey, etc. Lot	25 27
		West Carle	ton - Huntle	<u>.</u>	3 Date		<u>6</u> 48-53
		R.R. #3, 1-24	7 Westbrook	Rd. Carp	Ontario		
21	T I I I I I I I I I I I I I I I I I I I	KOA IL Northing		vation RC	Basin Code		iv
2	LOG O	F OVERBURDEN AND BED	ROCK MATERIALS	(see instruct	ions)		
General colour	Most common material	Other materials		Genera	I description	From	h – feet To
Brown	Sandy Sóól	Stones		Dry		0	4
Brown	Sandy Clay			Wet		. 4	9
Gray	Sand & Gravel			Wet		9	12
Gray	Limestone	t		Medi	1111	12	_75
31							
10	14-15 21 ATER RECORD 51	CASING & OPEN HOL		Sizes of (Slot No.	*F	ameter 34-38 Length	39
Water found at – feet	Kind of water diam inches	Wall Material thickness inches	Depth – feet From To		and type	inches Depth at top of	fee
	□ Fresh 3 □ Sulphur ¹⁴ □ Salty 5 □ Gas	4 1 Galvanized 3 ☐ Concrete	0 22.		and type		41-44 feet
15-18 1	□ Fresh 3 □ Sulphur 19 □ Salty 4 □ Minerals □ Gas	 Gondetee Open hole Plastic 		- 61	PLUGGING & SI	EALING RECORD)
£7 "	□ Saity ₆ □ Gas OF TESTE Dilphur 24 □ Presh 4 □ Minerals	2 🗋 Galvanized	20-23		Annular space	Abandonme	nt
	□ Salty 6 □ Gas 6	 ₃ □ Concrete ₄ ☑ Open hole ₅ □ Plastic 	22.5 75	From 10-13	To Material and I	type (Cement grout, ber	
	□ Salty ⁴ □ Minerals ⁶ □ Gas 24 25	2 🗍 Galvanized	27 30	18-21	22-25	g - Cement	(3)
	□ Fresh 3 □ Sulphur ³⁴ ⁶⁰ 4 □ Minerals □ Saity ₆ □ Gas	 3 Concrete 4 Open hole 5 Plastic 		5 26-29		ittings	
71 Pumping test	Imethod 10 Pumping rate 11 2 Bailer 25 GP Water level 25	Duration of pumping	In diagra		CATION OF WELL		ne.
	22-24 15 minutes 30 minutes	45 minutes 60 minutes 9-31 32-34 35-3			\leq		
	30 feet 514met 4111m	eet <u>410</u> %eet <u>410</u> %eet Water at end of test 42	$ $ \setminus		` A		
W	GPM f	eet 🗌 Clear 🔒 Cloudy					
Recommende	pump setting	pump rate		Ca	rdeuco		
50-53				1		1	
FINAL STAT	supply 5 🖸 Abandoned, insufficie	ent supply 🤋 🗌 Unfinished lity 💦 🛛 Replacement well		1]	ا ح	ł
3 D Test ho 4 D Rechar	ble 7 🗌 Abandoned (Other)		-	ł	84	×	
WATER USE				1	33'	1	
1 Domes 2 D Stock 3 D Irrigatio	6 🗋 Municipal	9 🗌 Not used 16 🗋 Other		1		1 7	
₄ [] Industr		ning		1			9
	tool 5 GARCELON 57	9 🗋 Driving		1	.ot 159	· ()	1
2 🖸 Rotary 3 🗌 Rotary 4 🗌 Rotary	(conventional) 6 Dering (reverse) 7 Diamond	10 Digging 11 Other				18278	7
Name of Well Co	ontractor	Well Contractor's Licence N	o. Data	58 Contracct	59-62 59-62	Date received	63-68
Capital	Water Supply Ltd.	1558	•. Uata source Date of inspect		D D B Inspector	JAN 0 8 1	998
P.O. Bo	x 490 Stittsville,Or	ntario K2S 1A6					•
Name of Well Te	echnician	Well Technician's Licence N TOO97					\checkmark
	hnician/Contractor	Submission date					-)
1 MAK 10	man	day IQno IZyr 9				0506 (07/94) F	ront Form

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ounty or District		Township/Borough/City/	Town/Village	Con block tract surv	rey, etc. Lot 25-27
		Address West Ca	rleton - Huntley	Date	6
		154 Colonnade	Road Noppan Onti	RC Basin Code ii	21 ay 10 month 99 yea
1	т м 10 12	17 18	24 25 26	30 31	
		F OVERBURDEN AND BED Other materials	ROCK MATERIALS (see ins	eneral description	Depth – feet
General colour	Most common material				From To
Brown	Sand	Boulders & G	ravel		0 11'6
31					
10 14 15 11 WATER RI	CORD 51 Inside	CASING & OPEN HOL Wall	E RECORD Siz	zes of opening ³¹⁻³³ Diametr lot No.)	
ar – reet	of water diam	Material thickness inches	From To 🛄	aterial and type	Depth at top of screen
^{10–13} ¹ ⊡ Fresh 2 ⊡ Salty	3 Sulphur 14 Interes 4 Minerals 6 Gas	1 Steel 12 2 Galvanized 3 Concrete		ravel Packed	5 feet
^{15–18} ¹ ⊡ Fresh 2 ⊡ Salty	³ □ Sulphur ¹⁹ 4 □ Minerals ⁶ □ Gas	Open hole Plastic	0 11'6" 61	PLUGGING & SEAL	
^{20–23} ¹ ⊡ Fresh 2 ⊡ Salty	3 Sulphur 24	1 Galvanized 3 Concrete		Annular space set at - feet Material and type	Cement grout, bentonite, e
25-28 1 🗌 Fresh	3 🗌 Sulphur 29	Open hole Den hole Den hole Den hole	1 1 1 1	n io -13 14-17	
2 🗌 Salty	4 ☐ Minerals 6 ☐ Gas 3 ☐ Sulphur ³⁴ ⁶⁰	1 Steel 26 2 Galvanized 3 Concrete	27-30 118 27-30 3 28	-21 42-23	
¹ □ Fresh ² □ Salty	a 🗂 Maranda	Open hole S Plastic	28	-29 30-33 80	
Pumping test method	Pumping rate 11-	15-16 17-18][LOCATION OF WELL	
1 Pump 2 Baile Static level Water level	el Water levels during	Pumping 2 Recovery	In diagram below Indicate north by	show distances of well from arrow.	road and lot line.
endorpa	22-24 15 minutes 30 minutes	-31 45 minutes 60 minutes 35-37	4 <u>1</u>		
The second secon	1001	eet feet feet 42			
L If flowing give rate	Can the	Water at end of test 42 eet Clear Cloudy			
Recommended pump ty	pump setting	45 Recommended 46-49 pump rate			
50-53		GPM			
FINAL STATUS OF V	5 🗋 Abandoned, insufficie	nt supply ⁹ 🔲 Unfinished lity 🛛 🖸 Replacement well			
 ² Observation well ³ Test hole ⁴ Recharge well 	 Abandoned, poor qua Abandoned (Other) Dewatering 				
WATER USE	55-56		-11		
1 Domestic 2 Stock	5 🗌 Commercial 6 🗋 Municipal	9 ☐ Not used 10 ☐ Other			
 Irrigation Industrial 	 Public supply Cooling & air conditio 	ning			
METHOD OF CONST					
 Cable tool Rotary (convention Rotary (reverse) 	5 ☐ Air percussion onal) ≋ 🛃 Boring 7 ☐ Diamond	9 🗋 Driving 10 🗋 Digging 11 🔲 Other			194767
 Rotary (reverse) Rotary (air) 	8 🗍 Jetting				
Name of Well Contractor	·	Well Contractor's Licence N	o. Data 58 Con source		
Capital Wate	er Supply Ltd.	1558	Date of inspection	Inspector	EC 0 8 1998
		ntario R2S 146 Well technician's Licence N	S		<u></u>
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nt only in spaces provided. rk correct box with a checkmark, where applicable.	<u>11</u>	1530341	Municipality 15005	$\begin{array}{c} \text{Con.} \\ \hline \\ \hline \\ 15 \end{array} \begin{array}{c} \hline \\ 15 \end{array} \end{array} \begin{array}{c} \hline \\ 15 \end{array} \begin{array}{c} \hline \\ 15 \end{array} \end{array} \end{array} \end{array} \begin{array}{c} \hline \\ 15 \end{array} \end{array} \end{array} \end{array} \begin{array}{c} \hline \\ 15 \end{array} \end{array} \end{array} \end{array} $
punty or District	Township/Borough/City/T	own/Village	Con block tract	survey, etc. Lot 2
Obtain Carloton	Address	con - Huntley	3	6
	154 Colonnade	Rd Nepean Ontari	O K2R 7.15 comp RC Basin Code	ileted 21day 10 month98 y
		24 25 26	30 31	
LOG OF OV	CRBURDEN AND BEDI	ROCK MATERIALS (see ins	eneral description	Depth – fee From To
	Boulders &	Gravel		0 11
Brown Sand	BOULGELB C			
2 1 14 15 21 51 51				65 75 Diameter 34-38 Length
/ater found - feet Kind of water linkies	Material Wall thickness inches	Depth - feet	lot No.)	2 inches 6 6 6
10-13 1 □ Fresh 3 □ Sulphur 14 10-11 1 □ 2 □ Salty € □ Cart	Steel ¹² Galvanized	13-16	aterial and type	Depth at top of screen
15-18 1 🛛 Fresh 3 🗋 Sulphur 19 4	Concrete Open hole Plastic	0 11'6"	PLUGGING & S	SEALING RECORD
] Steel ¹⁹] Galvanized] Concrete	20-23	Annular space	Abandonment
2 Salty 6 Gas 25-23 1 Fresh 3 Sulphur 29] Open hole] Plastic		n To -13 14-17	i type (Cement grout, bentonite,
6 Gas 2] Steel ²⁶] Galvanized] Concrete	27-30 27-30 3 26		Packed
] Open hole] Plastic		-29 30-33 80	
Pumping test method ¹⁰ Pumping rate ¹¹⁻¹⁴ D	uration of pumping 		LOCATION OF WEL	
Static level Water level end of pumping Water levels during 1 P		In diagram below Indicate north by a	show distances of well arrow.	from road and lot line.
19-21 22-24 15 minutes 30 minutes 28-28 30 minutes 29-31	5 minutes 60 minutes 32-34 35-37			
In norming give rate	feet feet 42 Vater at end of test 42			
GPM feet Recommended pump type Recommended 43-45 F pump setting F	Clear Cloudy Recommended 48-49 ump rate			
Shallow Deep feet feet	GPM			
FINAL STATUS OF WELL 54 1 Water supply 5 Abandoned, insufficient sup	ply ⁹ 🗌 Unfinished			
Observation well Observation well Observation well Abandoned, poor quality Abandoned (Other) Becharge well Dewatering	10 🗋 Replacement well			
NATER USE 55-56				
1 Domestic 5 Commercial 2 Stock 6 Municipal	9 🔲 Notused 10 🔲 Other			
Irrigation / □ Public supply /□ Industrial / □ Public supply /□ Industrial / □ Cooling & air conditioning				
METHOD OF CONSTRUCTION 57	9 🛛 Driving			
2 Rotary (conventional) 6 Boring 3 Rotary (reverse) 7 Diamond 4 Rotary (air) 8 Jetting	10 🗌 Digging 11 🔲 Other			194770
	Well Contractor's Licence No	Data 58 Cont	racctor 59-62	Date received 63-
Name of Well Contractor	1558	Source	558	DEC 0 8 1998
		U Date of inspection	Inspector	
P.O. Box 490 Stittsville, Onta	Well Technician's Licence No 10097 Submission date	Remarks		CSS. ES
Signature of Technician/Contractor,)	1 113 8 04 /			والبابية والباقية المح

Ontario Ministry of Environm and Ener	nent		Th	e Ontario Water Resources Act WATER WELL RECORD
Print only in spa Mark correct bo	ices provided. x with a checkmark, where applicab		1530342	$\begin{array}{c c} \text{Municipality} & \text{Con.} \\ \hline 15995 \\ \hline 10 \\ 14 \\ \hline 15 \\ 15 \\ \hline 22 \\ 23 \\ 24 \\ 24 \\ 24 \\ 24 \\ 24 \\ 24 \\$
County or District		Township/Borough/City/To		Con block tract survey, etc. Lot 25-27
	9 k	Address		Date 48-53
01		54 Colonnade I	RC Elevation RC	Basin Code ii iii iv
<u>21</u>			OCK MATERIALS (see instruct	3147
General colour	Most common material	Other materials		ral description Depth - feet From To
Brown	Sand	Boulders & G	ravel	0 11'6'
31				
	14 15 21 21 51 51		43 54 RECORD Sizes of	of opening 31-33 Diameter 34-38 Length 39-40
Water found at - feet	Kind of water diam	Material Wall thickness inches	Depth – feet Z (Slot N From To U	2 inches 616 feet
10-13 1	□ Fresh ³ □ Sulphur ¹⁴ inches 4 □ Minerals □ Salty 6 □ Gas	1 🗌 Steel 12 2 🗌 Galvanized	13-16	al and type Depth at top of screen 41-44
15-18 1	Fresh ³ Sulphur ¹⁹	3 ☐ Concrete 4 ☐ Open hole 5 ☑ Plastic	0 11'6" Gra	PLUGGING & SEALING RECORD
20-23 1	□ Salty 6 □ Gas 17-18 □ Fresh 3 □ Sulphur ²⁴ 4 □ Minerals	Steel ¹⁹ Galvanized Concrete	20-23 Depth set	Annular space Abandonment
	□ Salty 6 □ Gas □ Fresh 3 □ Sulphur ²⁹	Concrete Open hole Plastic	From 10-13	To Material and type (Cement grout, bentonite, etc.)
2	□ Salty ⁴ □ Minerals 24-25 6 □ Gas 24-25	1 Steel 26 2 Galvanized 3 Concrete	27-30 111 17-21 3 -29	S" 3 Gravel Packed
1	□ Fresh ³ □ Sulphur ³⁴ ⁶⁰ 4 □ Minerals □ Salty ε □ Gas	4 Open hole 5 Plastic	287 23	3043 8014012 1 109
71 Pumping test		15-16 17-18	L	OCATION OF WELL
Static level	Minter lawal 25	Pumping ² Recovery	In diagram below sho Indicate north by arro	ow distances of well from road and lot line. ow.
19-21 IN	22-24 15 minutes 30 minutes 29-28	31 45 minutes 60 minutes 32-34 35-37		
If flowing give	feet feet feet feet feet	et feet feet feet 42		
Recommende	GPM fe			
	Deep feed build up to the setting	pump rate		
FINAL STATI			i i	
I 🗌 Water s	supply 5 Abandoned, insufficier ation well 6 Abandoned, poor quali le 7 Abandoned (Other)			
WATER USE	55-56			
1 Domes 2 Stock 3 Irrigatic 4 Industr	6 🗌 Municipal on 7 🗌 Public supply	9 Dot used 10 Dother		
	tool 5 Air percussion	9 🗋 Driving		
	(conventional) 6 ☐ Boring (reverse) 7 ∏ Diamond	¹⁰ Digging 11 D Other		194768
Name of Well Co	ntractor	Well Contractor's Licence No.	Data 58 Contract source 58 Contract	558 ⁵⁹⁻⁶² Date received ⁶³⁻⁶⁶ ⁶⁰
Address	l Water Supply Ltd.	1558	Date of inspection	Inspector
	o <mark>n 490 Stittsville,</mark>		Remarks	
S. Mil Signatifie of Tech	1er hnician/Contractor/	TOO97 Submission date day23 mo 10 yr 98	MINISTR	CSS. ES9

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Print only in space: Aark correct box w	s provided. /ith a checkmark, where /	applicable.	. 1	11 2	15	3034	13		inicipality	Con.		22 23 24
County or District			Township/E	Borough/City/T				Con	block tra	ct surve	y, etc. Loi	-
Otherse Con			Address		arletor				Dat			48-53
1	T	-	54 Col	Northing	<u>Rà Ner</u>	C Elevati	on RC	C Basin	Code	- <mark>- Z</mark> 1 - L	1 day 10 m	iv
2	T M10		VERBURDEN		24 25 ROCK MAT	ERIALS (s	see instru	31 Ictions)				47
General colour	Most common materia	1	Oth	er materials			Gene	ral descri	otion		From	pth – feet To
Brown	Sand		Boul	ders &	Gravel						0	11'
	<u> </u>										· · · · · · · · · · · · · · · · · · ·	
						<u> </u>						
		51			E RECORD			of opening	31-33	Diameter	34-38 Leng	1 75 1th 39
Vater found t – feet	Kind of water	Inside diam inches	Material	Wall thickness inches	Depth – From	То	ΠŪ	ial and type		2	inches 61 Depth at top	6 ^m fe
10-13 1 🗌 2 🗋	Fresh ³ Gulphur ¹⁴ A Minerals Salty ₆ Gas	2	Concrete			13-16	SC		acked		5	41⊸44 feet
	Fresh ³ Gulphur ¹⁹ 4 Minerals 5alty 6 Gas	4 5 17-18 1	Plastic		0	<u>-11, </u> 6,	61	PLU		SEALI	Abandonr	
	Fresh ³ Sulphur ²⁴ 4 Minerals Salty ₆ Gas	2 3 4	Galvanized				Depth set From			and type (C	ement grout, b	
25-28 1 [] 2 []	Fresh ³ Sulphur ²⁹ Salty ⁴ Minerals 6 Gas	5 24-25 1 2				27~30	10-13 11•6 18-21	14-17 3 22-25	Grave	el Pa	cked	
30-33 i2	Fresh ³ Sulphur ³⁴ ⁶⁰ 4 Minerals 5alty ₆ Gas	3	Concrete					0 33	Hole	Plug		
Pumping test me		11-14 (Duration of pumpi					LOCATIO		ELL		
	Bailer ater level 25 d of pumping Water levels 6	GPM during 1 [] f	Pumping 2	Recovery		In diagram Indicate no	below sh	ow distar			oad and lot	line.
		0 minutes 29-31	45 minutes 32-34	60 minutes 35-37								
feet If flowing give rat	feet feet te 38-41 Pump intake set	feet at	feet Water at end of te	feet st 42								
5 feet 5 feet 1 flowing give rat 6 Recommended p	GPM grant type Recommended		Clear Recommended pump rate	Cloudy 46-49								
	Deep pump setting	feet		GPM								
FINAL STATUS	niv 5 🗋 Abandoned,	insufficient su	oply ⁹ 🗌 Unfinis	hed								
2 D Observatio 3 D Test hole 4 B Recharge v	7 🗋 Abandoned		10 🗌 Replac	ement weil								
WATER USE	55-56											
 Domestic Stock Irrigation 	 ⁵ Commercia ⁶ Municipal ⁷ Public supp 	ly	9 🗌 Notus 10 🗌 Other	ea								
4 🗌 Industrial												
	DNSTRUCTION 5 C Air percuss proventional) 6 C Boring	ion	9 🗋 Driving 10 🔲 Diggin	g							194	760
3 🗌 Rotary (re 4 🗍 Rotary (air	verse) 7 🗋 Diamond										134	103
Name of Well Contra	actor		Well Contract	or's Licence No	Data source		58 Contrac	ctor	Q 59-	Date re		9 9 8
Address 1	Water Supply Lt	:d.	155	8	11 Ш (of inspection		Inspec	tor		<u>C 0 8 1</u>	770
Name of Weil Techn	490 Stittsvi	lle,Onti	Well Technici	an's Licence No		arks					SS.	FSG
S. MILLO Signature of Technic			TOO97 Submission o									

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County or District			Township	/Borough/City/	Town/Village	•	52	Con block tract surv		22 23
)wner's surname	c Construction	rst Name	Address	Carleto			ntario ation RC	Basin Code	5 day 6m	6 onth 06
	M to	LOG OF				25 28 FERIALS (s	see instruc	tions)		
eneral colour	Most common mate	rial	Oth	er materials		T	Gener	al description	Depth	- feet To
Drove	Cand- e (******				1	Loos	20	0	
Brown	Sandy & C	raver						-	3	
Brown	Clay						Pacl			
Gray	Sandy_Cla	-	St	ones			Loos		15	2'
Gray	Limestone	<u> </u>		.,				ium Hard	27	3
Gray	Limeston	<u>></u>					Bad	ley Broken	33	4(
Gray	Limestone	2				-	Medi	ium Hard	40	7
ter found feet	15 21 RECORD 21 Kind of water Fresh 3 Sulphur 14 Minerals Satty 6 Gas	51 Inside diam inches 6 '1'/4	CASING & O Material	PEN HOLE Wati thickness inches •188	RECORD Depth From	- feet To 31 ¹⁶	N (Slot N	of opening 31.33 Diamete	r ³⁴ ³⁸ Lengt inches	fe f screen 41-44
15-18 1 N	Fresh PESTISUphur		 Concrete Open hole Plastic 							feet
20.23	Salty 6 🗍 Gas	17-18	1 19 19 19 2 Galvanized			26-23	61	PLUGGING & SEALIN	Abandonme	int
2	∃ Flesh ₄ ☐ Minerals ∃ Salty [⊕] ☐ Gas	6	 ³ Concrete ⁴ Open hole 		31	75	Depth se From	To Material and type (Cement grout, ber	ntonite, et
2 [30-33 1 [Fresh 3 Sulphur 29 Satty 6 Gas Fresh 3 Sulphur 34 Fresh 4 Minerals Satty 6 Gas Satty 6 Gas	24-25	5 I Plastic 1 Steel 26 2 Galvanized 3 Concrete 4 Open hole 5 Plastic			27-30	10-13 30 18-21 26-29	14-17 O 22-25 Grouted -	Cement	(5)
Pumping test m	nethod ¹⁰ Pumping rate Bailer 3	0 GPM	15-16	ng 17-18 Mins				OCATION OF WELL ow distances of well from	road and lot	line
	Vater level Water levels and of pumping 22.24 15 minutes	s during 1 30 minutes	Pumping ² 45 minutes	60 minutes		Indicate r	orth by arr	ow.		Ŗ
15.000	20-20	29.31		25 feet						۲
15 • ftO*	ate 38-41 Pump intake se		Water at end of te	st 42	11					
Recommended p		43-45	Recommended	Cloudy 46-49		, P.	- ⁰⁰ -	(
	Deep pump setting	30 ^{fee}	pump rate	5 GPM	ll c	. or 20	X	E		
50-53 NAL STATUS 1 Water sup 2 Observation 3 Test hole 4 Recharge	on well 5 🖸 Abandoned 6 🖸 Abandoned 7 🛄 Abandoned	d, insufficient s d, poor quality d (Other)	supply ⁹ 🗌 Unfinis			4 Ros	300/ 5×00/	escar L	 8	P.+/e
ATER USE	55-56	al	9 🔲 Not us	e				és e	NO Build	1.00

WATER USE 1 ➡ Domestic 2 □ Stock	55-56 5	9 ⊡ Not use	6 Building
 Irrigation Industrial 	 Public supply Public supply Cooling & air conditioning 		C Lot 18
METHOD OF CONSTRU	UCTION 57		2 Cavanmore Rd
 Cable tool Rotary (conventional) Rotary (reverse) Rotary (air) march 	 Air percussion Boring Diamond Jetting 	 Driving Digging Other 	<u>208554</u>
Name of Well Contractor	r Supply Ltd.	Well Contractor's Licence No.	Data 58 Contractor 59-62 Date received 63-68 A0 Date of inspection Date of inspection
Address			
Name of Well Technician	Ktittsville,Ont	Well Technician's Licence No.	
S. Miller	•	т0097	
Signature of Technician/Contract	tor	Submission date	CSS.ESO
(Allakuto		day 6 mo 4 yr 90	≤ 0506 (11/98) Front Form 5
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WATER WELL RECORD

The Ontario Water Resources Act

County or District	Carleton	Township/Borough/City/I West Carleto		-lev	Con block	tract survey	, etc.	Lot ²⁵⁻²⁷
Occawa (Address				Date completed	1 10	48-53
		357 William Me	RC RC	Elevation RC	Basin Code	Completed	day	month year iv
								47
General colour	LOG OF Most common material	OVERBURDEN AND BEDR		•	description			pth - feet
Brown	sand					n _a e	From	то 8
Brown	sandy clay	stones					8	16
Grey	limestone						16	125
								-
								-
					<u> </u>			
	Note: Casing	was left 12" abo	ce ground	level at t	ime of o	drilling	1-	
					pening 31-			75 80 noth 39-40
Water found at - feet	SR RECORD 51 Kind of water Inside diam	CASING & OPEN HOLE R Wall Material thickness	Depth - feet	Sizes of c (Slot No.)			³⁴⁻³⁸ Le	ngth ³⁹⁻⁴⁰
69 ¹⁰⁻¹³ 1	Fresh ³ Sulphur ¹⁴ Inches	1 🕱 Steel 12 - 188	From To	Gradient Control Contr	nd type			p of screen 30
	Salty 6 Gas	2 Galvanized 3 Concrete 4 Open hole						feet
2	3 Gas 17-18	5 Plastic 1 Steel 19	2		PLUGGING &		RECOR	
1 1'-	Salty 6 Gas 6		21'6" 12	5 Depth set at From	To Materi	al and type (Cen	nent grout,	bentonite, etc.)
	Fresh 3 Sulphur 29 4 Minerals 24-25 Salty 6 Gas	5 □ Plastic 1 □ Steel 26	2			uted-cer	nent	(3)
	Fresh ³ Sulphur ³⁴ 60 Salar 4 Minerais	2 Galvanized 3 Concrete 4 Open hole		18-21 26-29	22-25 30-33 80			
	Salty 6 Gas	5 🗌 Plastic						
71 Pumping test m 1 [XPump 2 [Bailer 5 GPM	Duration of pumping 15-16 17-18 Hours Mins						
	na or pumping	Pumping 2 🗆 Recovery		gram below show ate north by arrow	distances of		ad and I	ot line.
	60 115 90	45 minutes 32-34 60 minutes 35-37 60	ď			·V		
28 [†] 4 [#] feet		Water at end of test 42	2					
Recommended p		Recommended 46-49	j á C	Villiam V	Mooner	+ Rd		
Shallow	X Deep pump setting 100 feet			ł				
FINAL STATU			8	1	1 2 5	1		
 Water sup Observation Test hole 	pty ⁵ □ Abandoned, insufficient su on well ⁶ □ Abandoned, poor quality ⁷ □ Abandoned (Other)	upply ⁹ Unfinished ¹⁰ Replacement well	E		<u>م</u> ر رو	8, 1		
4 🗌 Recharge	well ⁸ Dewatering		1 A					
WATER USE 1 IX Domestic 2 □ Stock	55-56 5 Commercial	9 □ Not use 10 □ Other	2					
3 🗌 Irrigation 4 🗋 Industrial	6 Municipal 7 Public supply 8 Cooling & air conditioning		(+	1	357			
METHOD OF C	CONSTRUCTION 57					1		
 Cable tool Rotary (co 	 ⁵ Air percussion ⁶ Boring 	 ⁹ Driving ¹⁰ Digging 						
³ □ Rotary (rev ⁴ □ Rotary (air	verse) 7 Diamond	11 🗋 Other					230)271
Name of Well Contra	actor	Well Contractor's Licence No.		58 Contractor	55	-62 Date receiv		63-68 80
Capital W	ater Supply Ltd.	1558	Source	15		NOV		2001
Address Box 490,	Stittsville, ON/ K2S	1A6	Date of inspec		nspector			
Name of Well Techn S., Mille	ician	Well Technician's Licence No. TOO97	Remarks	I			020	ESt
Signature of Technic	cian/Contractor	Submission_date	AT SININ				1.19 m. A	i sand s
Bran	nelle	day 05 mo 10 yr 01	2					

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The Ontario Water Resources Act WATER WELL RECORD

32 1	Mark correct box	with a checkmark, where a	pplicable.		11 1 2	1	532	402			2 . N i i i	22 23 24
Owner Hammer Marine Address 21 Image: Stand & Grave Component of the service	County or District			Township	/Borough/Cit	y/Town/Villa	ige	- ii	Con block	tract survey	, etc. Lo	25-27
Concertion Concertion </td <td></td> <td></td> <td></td> <td></td> <td>est Car</td> <td>leton</td> <td>- Hint</td> <td>:ley</td> <td>3</td> <td>•</td> <td></td> <td></td>					est Car	leton	- Hint	:ley	3	•		
21 Line G OF OVERBUTCH AND ECONCX MUTERULS (see instruction) Corrent color Madi common making Corrent color Madi s Cravel BCOM SAnd s Cravel Corrent color Or over making Corrent color Sand s Cravel Corrent color Or over making Corrent color Or over maki		First r	lame		Manion	Road	Carp	Ontario I	KOA ILO	Date completed	3dav10 m	
General docr Moti common matrix Other matrix Deveral docription Deveral docription Brown SAnd & Gravel 0 6 Grave Linestone 6 75 Grave Linestone 6 75 Grave Linestone 0 6 Grave Linestone 0 6 Grave Linestone 0 6 Grave Linestone 0 0 Grave Linestone 0 0 0 Grave Linestone 0 0 0 0 Grave Linestone 0 0 0 0 0 Grave Control Control 0 0 0 0 0 Grave Control 0 0 0 0 0 0 0 0 Grave Control 0 0 0 0 0 0 0 0 0 0 0	·	Zone			Northing							
Control Image: Stock Calend decreption Image: Stock Bitsoch Gade Gade Gade Gade Carey Linestone Gade Gade Gade Gade Stock Gade Gade <thgad< th=""> Gade Gade</thgad<>			OG OF OVEF			ROCK M	TERIAL	S (see instruct	tions)		Denth	- feet
Gray Linestone 6 75 Gray Linestone 1 1 1 Gray Linestone 1 1 1 1 Gray Linestone 1 1 1 1 1 Gray Linestone 1	Géneral colour	Most common material		Othe	er materials			Genera	al description		· · · · ·	
31	Brown	SAnd & Grave	1								0	6
32	Gray	Limestone				- · · · · ·					6	75
32							1					
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41 WATER RECORD Marifuld Marifuld Water Marifuld Size of genetic marifuld Size of genetic marifuld </td <td>32</td> <td></td> <td></td> <td></td> <td>╶┹╍┹╍┹╶┹╶┸╴</td> <td>┶┚┶┷┷ ╷╎╎╷╷</td> <td>╷╽╎╷╽</td> <td>╘┈┻╼┵┚╘┈┵╹</td> <td>· </td> <td></td> <td>· ! . </td> <td></td>	32				╶┹╍┹╍┹╶┹╶┸╴	┶┚┶┷┷ ╷╎╎╷╷	╷╽╎╷╽	╘┈┻╼┵┚╘┈┵╹	·		· ! .	
it Term Kind of water Indexe From Top To	41 WATEF		CAS	32 SING & OP	PEN HOLE	RECORD				33 Diameter	34-38 Lengt	
Image: Section of the sectin of the section of the	Water found at - feet	Kind of water	diam M	laterial	thickness	A	T).)	ir	iches	feet
19 10 Supple to a state of the stat	[' L]	Fresh ³ Sulphur ¹⁴	10/4 X St				1	Materia	l and type		Depth at top o	
2 3 380 * 6 380 * 10 2007 1 memory 3 380 * 10 2007 1 memory 1 memory 1 memory 2007 1 memory 1 memory 1 memory 1 memory 2007 1 memory 1 memory 1 memory 1 memory 1 memory 2007 1 memory 1 memory 1 memory 1 memory 1 memory 2007 1 memory 1	15-18 1	Fresh 3 Sulphur 19	3 □ Co 4 □ O	oncrete pen hole								feet
2 Saity Baity Bai	20-22	Saity 6 Gas	17-18 1 🗆 St	teel ¹⁹			, 20-2		PLUGGING 8			nt
1 Freds 1 Sold Sold 1 Sold	1 1	Salty 4 Minerals	3 🗆 Co	oncrete		22.5	95	Depth set	at - feet Materia			
2031		Fresh ³ Sulphur ²⁹ Solty ⁴ Minerals	5 🗋 Pl	astic				10-13	14-17	ted - C	ement (3)
Prime test Image: set method Prime test Image: set method Imade: set method <thimage: method<="" set="" td=""><td>30.33</td><td>Fresh ³ Sulphur ³⁴ ⁶⁰</td><td>2 🗆 Ga 3 🗆 Co</td><td>alvanized oncrete</td><td></td><td></td><td></td><td></td><td>22-25</td><td></td><td></td><td></td></thimage:>	30.33	Fresh ³ Sulphur ³⁴ ⁶⁰	2 🗆 Ga 3 🗆 Co	alvanized oncrete					22-25			
1 1 20 0 minutes 1 600 minutes 1 <td>2</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>26-29</td> <td>30-33 80</td> <td></td> <td></td> <td></td>	2							26-29	30-33 80			
Imp Under Searce	711			tion of pumpin	1 g _17-18] [LO		/EL:L	<u></u>]
Image: state of pumping 15 minutes 30 minutes 31 2 8 minutes 30 minutes	Statia lawal Wat	iter level 25 Water levels during				++	In dag	ram below sho	w distances of		ad and lot	ine.
Image: Static state Participant State Part State	19-21 end		•	•		10-	r Indicate	e north by arro	w.			
Image: Static state Participant State Part State	2 4'2"eet 2			.								
Image: Static state Participant State Part State	If flowing give rate	e 38-41 Pump intake set at		rat end of test	42	,	Card	Jevco			_	
ENAL Sector	Hecommended pur	np type Recommended	* 43-45 Reco	ommended			1			1	\searrow	
Device supply 5 Abandoned, isourdiality 9 Unfinished 1 Device value 6 Abandoned, poor quality 9 Beplacement well 2 Obmestic 5 6 Municipal 9 Not use 2 Stock 6 Municipal 9 Not use 9 Other 2 Stock 6 Municipal 9 Not use 9 Other 3 Ingaton 7 Public supply 9 Other 7 7 4 Industrial 9 Other 9 Other 7 7 4 Industrial 9 Other 9 Other 7 <td>_</td> <td></td> <td></td> <td></td> <td>5 GPM</td> <td></td> <td>Ì</td> <td># 142</td> <td></td> <td>1</td> <td></td> <td>\setminus</td>	_				5 GPM		Ì	# 142		1		\setminus
2 Observation vell 0 Abardoned (Other) 3 Test hole 7 Abardoned (Other) 4 Recharge well 8 Dewatering WATER USE 5:56 9 Not use 2 Stock 8 Otherical 9 Other 2 Stock 9 Other Other Triving 2 Stock 9 Other Triving Triving 2 Stock 9 Other Triving Triving 2 Rotary (conventional) 9 Other Triving Triving 2 Rotary (conventional) 9 Other Triving Triving 2 Rotary (conventional) 9 Detring Tole Sticence No. Triving 2 Rotary (conventional) 9 Jetting Source Source Source Value of Well Contractor Well Contractor's Licence No. Toop 7 Source Source NOV 2.8 2001 Nover 2.8 2001 Mem and Well Technician's Licence No. Inspector Nove 2.8 2001	FINAL STATUS	OF WELL 54					4	r		•		
1 Cable tool 5 Air percussion 9 Driving 2 Rotary (conventional) 6 Boring 10 Digging 3 Rotary (cevrese) 7 Diamond 11 Other 238005 Vame of Well Contractor Well Contractor's Licence No. Not 2 8 2001 63-68 80 Address 1558 1558 NOV 2 8 2001 63-68 80 P.O. Box 490 Stittsville, Ontario K2S 1A6 Well Technician's Licence No. Inspector Inspector S. Miller TOO97 Submission date May 24 mol0 yr 01 10 Yo 01	² Observation	well 6 🗌 Abandoned, poo	quality 10				I		29	ł		
1 Cable tool 5 Air percussion 9 Driving 2 Rotary (conventional) 6 Boring 10 Digging 3 Rotary (cevrese) 7 Diamond 11 Other 238005 Vame of Well Contractor Well Contractor's Licence No. Not 2 8 2001 63-68 80 Address 1558 1558 NOV 2 8 2001 63-68 80 P.O. Box 490 Stittsville, Ontario K2S 1A6 Well Technician's Licence No. Inspector Inspector S. Miller TOO97 Submission date May 24 mol0 yr 01 10 Yo 01			ər)				I		${} $	•	, C	\
1 Cable tool 5 Air percussion 9 Driving 2 Rotary (conventional) 6 Boring 10 Digging 3 Rotary (cevrese) 7 Diamond 11 Other 238005 Vame of Well Contractor Well Contractor's Licence No. Not 2 8 2001 63-68 80 Address 1558 1558 NOV 2 8 2001 63-68 80 P.O. Box 490 Stittsville, Ontario K2S 1A6 Well Technician's Licence No. Inspector Inspector S. Miller TOO97 Submission date May 24 mol0 yr 01 10 Yo 01							1		6	1	der	
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Image: Second state Weil Contractor's Licence No. Data Second state Second stat	² 🗌 Rotary (conv	ventional) 6 🗍 Boring	10	Digging								
Capital Water Supply Ltd. 1558 Address 1558 P.O. Box 490 Stittsville, Ontario K2S 1A6 Name of Well Technician Well Technician's Licence No. S. Miller TOO97 Signature of Jechnician/Contractor Submission date day 24 mol0 yr 01											2380	05
P.O. Box 490 Stittsville, Ontario K2S 1A6 Name of Well Technician S. Miller TOO97 Signature of Schnician/Contractor Submission date day 24 mol0 yr 01	Name of Well Contract	tor	We	ell Contractor	's Licence No.	► Data		58 Contractor		-62 Date receiv	ed	63-68 80
P.O. Box 490 Stittsville, Ontario K2S 1A6 Name of Well Technician S. Miller TOO97 Signature of Schnician/Contractor Submission date day 24 mol0 yr 01	Capital W	later Supply Ltd.		1558				15		NOV	2820	ă 🗌
			ontar	io K2S	146		o inspectio	וזע	mspector			
	Name of Well Technicia	ian	We	ell Technician		Ren	arks		1			
	S. MILLER Signature of Technician	n/Contractor			9	NISI					CMS 6	\$1
	Alvan	ad	day	y 24 mol	0 _{yr} 01	Σ					0506 (07/00)	Empt Earrow

2 - MINISTRY OF THE ENVIRONMENT COPY

	ices provided. x with a checkmark, where applica	ble. $11 \\ 1 \\ 2$	15	532757			
County or Distric		Township/Borough/C			Con block tract s	survey, etc. Lo	ot 6
Ottawa C Owner's surnam		West Carl Address			Date		0
Gracey C	Construction Zone E	asting Northing		RC Elevation	RC Basin Code	^{ete} 29 _{day} 4 n	nonth iv
21							
		F OVERBURDEN AND BE				Dept	h - feet
General colour	Most common material	Other materials	; 	Ge	eneral description	From	То
Brown &	red Sand					0	13
Gray	Sand & gravel					13	10
Gray	Limestone					16	60
·· ·· ·	Note	Casing was left	1 foot a	boye aroun	d level		
		at time of drill		Jacour			†
31	· └╷╏╷╻╎╹╹╹╎╹╹╹						
32							
	ER RECORD 51 Inside	CASING & OPEN HOL	E RECORD			neter ³⁴⁻³⁸ Leng	
at - feet	Kind of water diam inches	Material thickness inches	From		aterial and type	inches Depth at top	
11	□ Fresh 4 □ Minerals □ Salty 6 □ Gas 6 174	t 1x Steel 12 2 Galvanized 3 Concrete	0	22:5			41-4- feet
51 2	□ Fresh ³ □ Sulphur ¹⁹ 4 □ Minerals □ Salty 6-□-Gas	4 Open hole 5 Plastic		61	PLUGGING & SEAI	LING RECORD)
20-23	□ Salty □ Gas 17-18 □ Fresh 3 □ Sulphur 24 □ Salty c □ Gen	1 Steel 19 2 Galvanized 3 Concrete		20-23 Depti	Annular space	Abandonm	
26.29	Fresh 3 Sulphur 29	4 ★ Open hole 5 D Plastic	22.5	60 From 27-30 21.	1 10	ce (Cement grout, be	(4)
30.33	Salty 6 Gas	1		27-30		- Cement	(
	□ Fresh 4 □ Minerals □ Salty 6 □ Gas	4 □ Open hole 5 □ Plastic		26-	29 30-33 80		
71 Pumping test I							
	Water level 25 Water levels during	M 15-16 17-18 Hours Mins M 2 Recover	-11		show distances of well from	om road and lo	uine.
	22-24 15 minutes 30 minutes 29-28			Indicate north by a			
2 4'3%eet	25 feet 55 feet 40 fe	et 40 feet 25 fee	ət		Carp Rd		
SNIdWORD If flowing give	GPM fe	Water at end of test 42 et Clear Mail Cloudy			1,00		
■ Recommended □ Shallow	Pump setting	pump rate	11		Carp Rd Cardevico Ind Park		
50-53	40 fe	et 5 GPI	Ë		Post		1
FINAL STATU	pply ⁵ 🗆 Abandoned, insufficient						Rd
 ² Observat ³ Test hole ⁴ Recharge 	ion well 6 Abandoned, poor qualit 7 Abandoned (Other)				Cardenco		Ę
-			41				ğ
VATER USE 1	55-56 5	9 🗆 Not use					Richardson
3 🗌 Irrigation 4 🛄 Industrial	7 🖸 Public supply				ippities's 1		IS.
NETHOD OF	CONSTRUCTION 57	.,	-		No Building		F
METHOD OF	onventional) 6 🗂 Boring	⁹ Driving ¹⁰ Digging			1 well was 1		
1 🗌 Cable too 2 🔲 Rotary (c	everse) 7 Diamond	11 🗌 Other				238:	136
1 🗌 Cable too	ir) ⁸ 🗌 Jetting						
 Cable too Rotary (c Rotary (n 	ir) ⁸ 🗌 Jetting	Well Contractor's Licence N	Io.	58 Contra		e received	63-6
1 Cable too 2 Rotary (c 3 Rotary (n 4 Rotary (a Name of Well Cont Capital	ir) ⁸ 🗌 Jetting	Well Contractor's Licence N 1558	Source	e	558		002 ⁶³⁻⁶
1 Cable toc 2 Rotary (c 3 Rotary (r 4 Rotary (a Name of Well Cont Address	ir) ⁸ Detting ractor Water Supply Ltd.	1558	Source				
Cable toc Name of Well Cont Cable toc Name of Well Tech Name of Well Tech	ir) ⁸ Jetting ractor Water Supply Ltd. ox 490 Stittsville.0 nician	1558 ntario K2S1A6 Well Technician's Licence N	INO BSUICE	e of inspection	558	<u>1AY 062</u>	002
1 Cable toc 2 Rotary (c 3 Rotary (n 4 Rotary (a Name of Well Cont Capital Address P.O. BC	ir) ⁸ Jetting ractor Water Supply Ltd. nx 490 Stittsville.0 nician er	1558 ntario K2SlA6	INO BSUICE	e of inspection	558		002

2 - MINISTRY OF THE ENVIRONMENT COPY

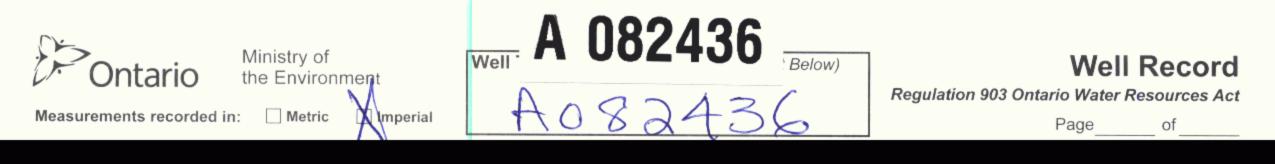
0506 (07/00) Front Form 9

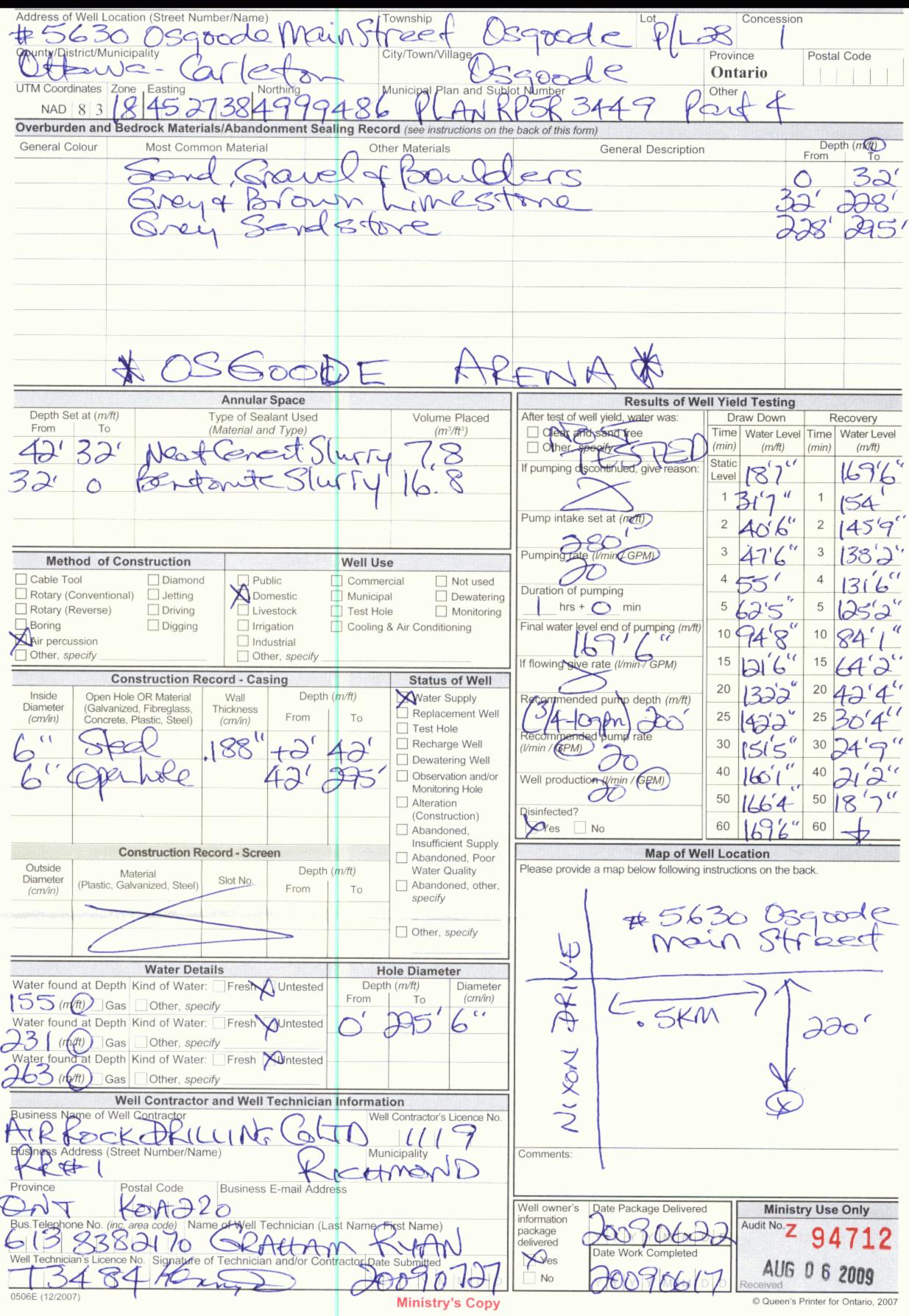
🗑 Or	ntario	Mi the	nistry of Environm		Well Ta~ ►	•	15386	print number t	below)	پر ۲۰۰	Regulation 90	3 Ontari			cord rces Act
Instructions	for Com	oletina	Form			A0353	86						pa	ge	of
 For use in All Section Question All metres 	n the Provi ons must b	ince of e comp compl ments	Ontario o leted in ful eting this a shall be re	l to avoid application ported t	l delays ir n can be	n process directed	sing. Furthe to the Wate	r instruction	ons and	exp	retain for futu lanations are av Coordinator at Ministry Us	ailable o 416-23	n the bac	k of th	nis form.
Well Owner'	's Informa	tion a	nd Locati	on of We	ell Inform	mation	MUN		cor					т	
First Name Gold Haver	Constr		Last Name				Mailing Addro Box 720		t Number	י∕Na	me, RR,Lot,Con	cession)	-		
County/District/	'Municipality rleton		1	K	City/Town/	Village		Province Ontario	Postal K2K		4 61		lumber (in 8627		area code)
Address of Well		ounty/D	istrict/Munic	cipality)			Fownship West Ca	rloton	- Hur	•+ 1	Lot	6	Conces	sion	3
DE tawa Can RR#/Street Nur	mber/Name		· · · ·	• • • • •			City/Town/		1111	1 C J	Site/Comp		Block/Trac	ct etc.	
GPS Reading	NAD 8 3	Zone 18	Easting	06	Northin	g 58 13	Unit Make		Mode	of C	P	differentiated		Averag	ed
Log of Over	burden ar	nd Bed	Irock Mat	erials (se									•		
General Colour	Most cor	nmon m	aterial	C	Other Mate	rials			General	Des	cription		Depth From		Metres To
Brown	S	and							Dı	ry			0		1.21
Brown			Gravel						We	et			1.2	1	1.82
Brown	C	lay							L	008	se		1.8	2	9.14
Gray		-	Boulde	rs	-								9.1	4	10.66
Gray		imest											10.6	6	19.81
								annan anns far far far star an an							
													-		
					-			·							
	Diameter				Constr	uction Re	ecord					st of We			
		neter netres	Inside	Materia	al	Wall thickness	Depth	Me	etres		mping test method bmers1ble		/ Down /ater Level		covery Nater Level
			diam centimetres			centimetre		1	Го			min	1 1	min	Metres
		.75	, <i>j</i>			Casing				(m	mp intake set at - etres) 12.19	Static Level	.91		
11.27 19	.81 15	.39	10 06	Steel	Fibreglass	.48	+ .4	5 11	.27	(lit	mping rate - res/min) 54 . 6		1.39	1	1.35
	r Record			Galvanized	COncrete					Du	ration of pumping		1.46	2	1.32
Water found atMetres /	/ Kind of W	ater]Steel F	Fibreglass				.:		hrs + mi nal water level end		1.52	3	1.22
13.71	=	ulphur		Plastic						of	pumping1.87	s	1.74	<u> </u>	1+66
Other:		inerals	·····	Galvanized							commended pump	4	1.56	4	1.23
18 28	Fresh Su	ulphur		Steel							Shallow Commended pump		1.60	5	1.20
Gas Other No	Salty M			Galvanized		·				de	^{pth.} 12.19 etre	s	A AVU		
m 🛄	Fresh 🔲 Su	ulphur				Screen			-	1 1	commended pump		1.70	10	1.10
Gas	Salty 🗌 M	inerals	Outside diam	Steel		Slot No.					e. (h tres/m in) lowing give rate -	15 20	1.79	15 20	1.03
After test of wel	I yield, water	was] Plastic [] ((litres/min)	25	1.82 1.84	25	.96
Clear and se	ediment free			Galvanized						lf r ue	umping discontin- d, give reason.	30	1.86	30	.94
Other, speci	fy		·	· · · · · ·		sing or S	screen	· · · · · · · · · · · · · · · · · · · ·				40	1.86	40 50	.93
Chlorinated	Yes 🗌 N	o	15.39	Open hole			11.2	7 19	9.81			60	1.88	60	<u>92</u>
	Plugging	and Sea	ling Record	d G	Annular	space	Abandonmer				Location	of Well			
Depth set at - M	etres Materia		(bentonite slu				ume Placed ubic metres)	In diag			w distances of well			nd buil	ding.
	Го		- Bento				2m3		te north by	arro	w.	1	1		
4.1.641	J GLOI	ILEU '	Den LO	14.15 D	₩#£1]				2 1			1			
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			-		in a star				١			1			
									. 1		4	- 4	1	.0	, 9
			ethod of C	onstructio	on				арана 1911 - Алана 1911 - Алана			1	لاج	2	13
Cable Tool		Rotary (a			etting		Digging				1		en de la companya de		Cardeveo
Rotary (conve Rotary (rever		Air percu Boring	เธรเบท	=	etting Priving					M	escar	C	OT LE	7	jě
			Water	Use								. •	17		P
Domestic Stock		Industria Commer			ublic Supply lot used	/	Other	_							
		Municipa	l ·	□ c	Cooling & air	conditionin	g	Audit	^{No.} Z	٨	CO71 -	ate Well	Completed	Y.	5 [™] 30
		oprac	Final Statu				andoned (Othe				5974 sinformation	ate Delive	2006		5 30 MM DD
Water Suppl Observation	· · · ·	harge we ndoned, i	ll nsufficient suj		Infinished Dewatering		andoned, (Othe	· · · · · · ·	ine well ow ige delivere	1 A A	Yes No		2006		<u>6 1</u>
Test Hole	Aba	ndoned, p	oor quality	R	Replacement						Ministry U	se Onlv			
Name of Well C		ell Cont	ractor/Tech	inician In			r's Licence No	Data	Source			ontractor		Q	
Capital Business Addres		upply	Ltd.		1	558			Decci:				00	O	LANA
				da 17-	146		- 	Date F	Received	ľ	Ĩ 2006 [□]	ale of INS	pection Y	yyy I	MM DD
Box 490 Name of Well To	echnician (last	name, fi	rst name)	AU BAS	We		n's Licence No					Vell Recor	rd Number		
Miller: Signature/Ar Te	Stephen	ractor	· · · · · · · · · · · · · · · · · · ·		Date	Submitted	////	· · _ · _ ·					1		
Aller	mac	L	· · ·			20	06 6 1	·							
0506E (09/03)		N	Contr	actor's Co	py 📋 Mir	nistry's Co	py 🗌 Well (Owner's Co	ору 🗌	·)	Cette	tormulë	est dispo	nible	en françai

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P O	ntario	Ministry the Env	of ironment	Well -	A 04	198	30	number below)	Regulatio	n 903 O				ecord urces Act
Instructior	ns for Comple	tina For	n		A04.	1980		· • · ·				pa	age _	of
 For use All Section Question All met 	in the Provin tions must be o	e of Onta ompleted mpleting onts shall	irio only. Th in full to ave this applicat be reporte	oid delays tion can t	s in proces be directed	sing. I I to the	Further i	nstructions and	lease retain for dexplanations ar nent Coordinato Ministr	e availa or at 41	ble on 6-235	the bad	ck of	this form.
	er's Information			Well Info					on hame, RR,Lot,	Conces	sion)	1	LOT	
First Name Mortgage County/Distric	Edge	Last N					Wesc	ar Lane				·		
Ottawa Ca	rleton			p/City/Tow Carp		.	0			613 8	336	1751		e area code)
Address of W Ottawa Ca	ell Location (Cou t rleton	nty/District	Municipality)			Towns W	lest C	arleton -	Huntley	Lot		Conces	. 3	
RR#/Street N 132 Wesca							/Town/Vi Carp	U		ompartn	nent/Bl	ock/Tra	act etc	
GPS Reading		11 1	asting 2 32 09	Nort	hing 1 59 21		t Make/M armin	odel Mode	of Operation:	<u>_</u> ,	rentiated itiated, s		Avera	ged
	erburden and	Bedrock	Materials ((see ins	tructions)							Dept	h	Metres
General Colou			· · · · · · · · · · · · · · · · · · ·	Other Ma				Genera	I Description			Fror		To
B <u>rown</u>	-	Clay Clay			ones							0	55	3.65
Gray Gray	Limes	-			ones r t Laye	rs	-	Med	lium			7.3		52.72
Jiay		-one		- Da					• 4. 14 711				-	
1														
		-												
Hola	Diameter			Conc	struction Re				· · · · · · · · · · · · · · · · · · ·	Test o	fWoll	Viold		
	Metres Diamet	e Insid			Wall		Depth	Metres	Pumping test me	thod	Draw D	Down		ecovery
From	To Centimet	centime		erial	thickness centimetre		From	То	submersib	le		er Level etres	Time min	Water Level Metres
	3.22 22.7	111			Casing				Pump intake set (metres) 45.7	at - Sta 1 Le	vel 4	.49		
8.22 52	2.72 15.23	15.8	6 X Steel		.48	+	.45	8.22	Pumping rate - (litres/min) 40	95	¹ 6	.69	1	15.19
	er Record		Galvaniz	ed					Duration of pump		2 8	.11	2	13.06
Water found atMetres	Kind of Wate			Fibreglass	· · ·				Final water level of pumping 18	end 4	3 9	.27	3	11.41
Gas	Salty Miner	als	Galvaniz	ed					Recommended p		4 10	-30	4	10.37
	Fresh Sulph	1 1 1	L	Fibreglass					Shallow Recommended p	Deep oump	5 11		5	9.56
Other:	<u></u>	.+	Galvaniz	ed	Screen				depth. 30.47 Recommended p	etres				
Gas	Fresh Sulph	als Outsi	OLEE	Fibreglass	1			-	rate. (Hoe Phin)	1	0 14 5 15	.72	10 15	6.88 5.83
Other: After test of w	ell yield, water wa	diar	Plastic						If flowing give ra (litres/min)	2		.33 .57	20 25	5.47
Clear and			Galvaniz		Casing or S	Screen			If pumping disconued, give reason.	·	30 16	.72 .88	30 40	5.25
Chlorinated 2		15.2	3 🗶 Open ho				8.22	52.72				.50	50 60	5.17
	Plugging and	┢╹└───		Annula	ar space		donment		Loca	tion of	**	.63		5.17
Depth set at - From			nite slurry, neat c	<u></u>	v) etc Vo	olume P ubic me		In diagram below Indicate north by	w show distances of arrow.	well from	road, I	ot line, a	and bu	ilding.
8.22	0 Grout	d – Be	ntonite	Slurry	4	2m3								Rd
				*						1				de
		`								i I				V
				41-22	in a second s					.]	t i hereja. T	.o	ß
Cable Tool		ary (air)	of Construc	Diamond			gging					den Ard	<u> </u>	Richardson
Rotary (cor		percussion ing		Jetting Driving			her		132		Cot	15 D	1	an'
Domestic	[□] Ind	ustrial	Vater Use	Public Sup	ply		her		escan			R	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Ř
Stock		nmercial nicipal		Not used	air conditionin			Audit No.	17000	Date	Well⊦ Co	mpleted		
		Final	Status of We	əll	······		d, (Other)	2	47066 wner's information		Delivere	2000	6 1	MM DD 8 30 MM DD
Water Sup	n well 🔲 Abando	ned, insuffici	ent supply	Unfinished Dewatering			., (Other)	package deliver				2000		8 31
Test Hole	Well	ned, poor qu Contractor	ality /Technician		on			Data Source	Minist	ry Use (Contr				8
Name of Well Capital	Contractor Water Sup ress (street name, r	ly Ltd	•	. W	Vell Contracto 1558	r's Li ¢e r	nce Nb.					1:		
	ess (street name, r Stittsvi			146			;	Date Reveived	7 YY2806MM DI			ction Y	YYY	MM DD
Name of Well	Technician (last na	rle, firšt nam	e)	l v	Vell Technicia T0097	7	nce No.	Remarks		Well	Record	Number		
Signature	ech/lician/Contract	5		Di	ate Submitted _Y		VM DD							e ^{gr}
0506E (09/03)	1		Contractor's C	opy 🗌 N				ner's Copy 📋	C	ette forr	nule e:	st dispo	nible	en français

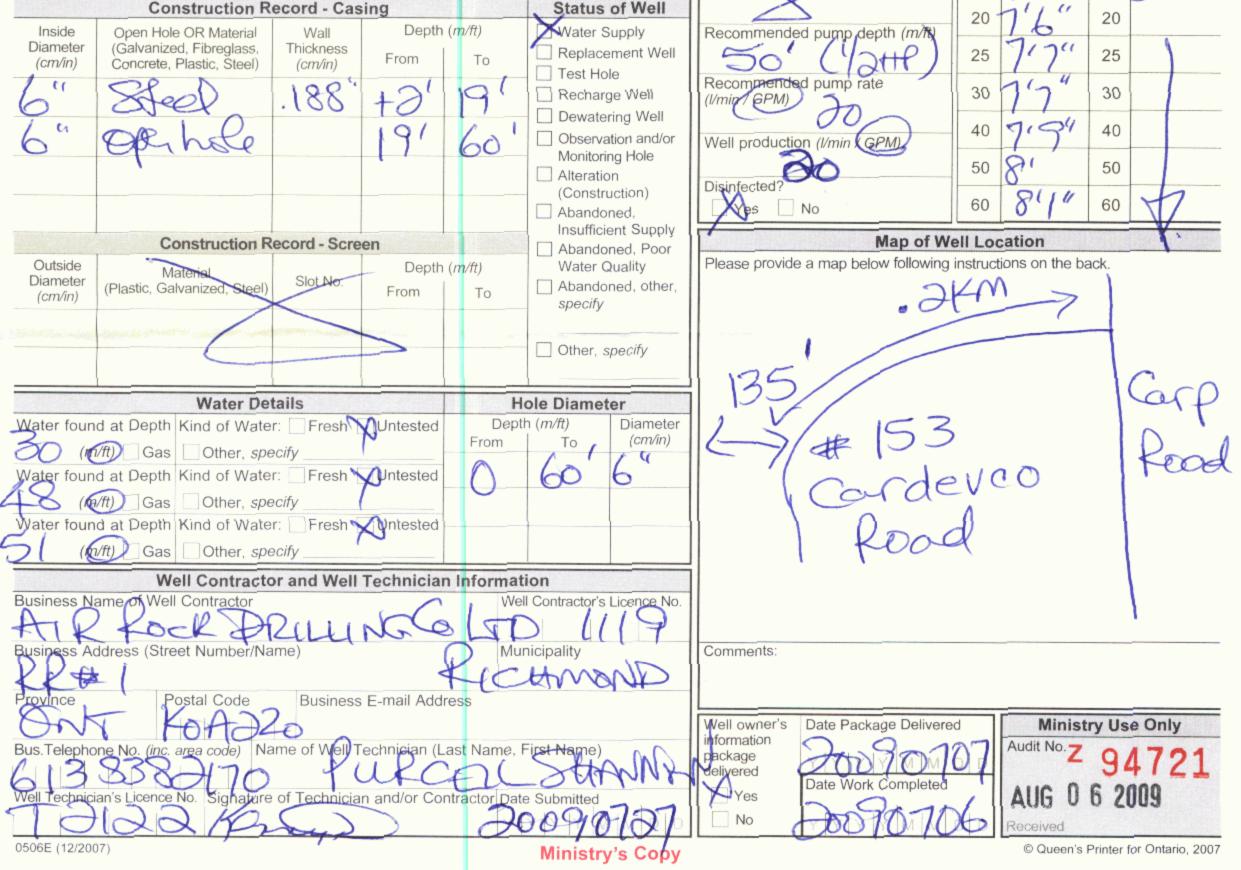
😵 Or	ntario	Ministry of the Environme			3904		Regulation 903 Ontar		
 All Section Question All metro 	in the Provin ons must be is regarding e measurem	ce of Ontario onl completed in full t completing this a ents shall be rep	to avoid delays pplication can ported to 1/10 th	ent is a perma in processing be directed to	1. Further ii	I document. Pl] ease retain for future refer l explanations are available o esk (Toll Free) at 1-888-3 Ministry Use Only	ence. on the back of	
Well Owner	's Informat	blue or black ink			MUN		DN	LOT	
RR#/Street Nu /2 6 - U GPS Reading	NAD NAD 813	Zone Easting AR - AHIZ Zone Easting AR - HAIZ Bedrock Mater	North	ning U ノ <i>ムチタロ</i>	Dinit Make/M	-A WA	c f <td><u>356 - 4/R</u> ied (Arrei</td> <td>-7616</td>	<u>356 - 4/R</u> ied (Arre i	-7616
General Colour		non material	Other Ma			Genera	I Description	Depth	Metres
				ie I-Bo	11000		loose,	From	 11.51
Grey	him	swel. estonie.	<u> </u>	/ - 00	upters	6	Lard.	11.51	22,72
Hole I	Diameter		Cons	truction Reco	rd		Test of We		
	letres Diame	inside	Material	Wall	Depth	Metres			e Water Level
From	To Centime 06 20.3	3.2 centimetres		thickness centimetres Casing	From	То	Subnet encident	Metres min 3, 40	Metres
Wate	r Record	/5,55	teel Fibreglass lastic Concrete	0.11£	0	11.51	Pumping rate - 1 (litres/min) 5 5 5 Duration of pumping 2	5,24 1	14,10
Water found atMetres	Kind of Wat		iteel Fibreglass				hrs 12 min		
10,60	Fresh Sulp Salty Mine	hur F	lastic Concrete				Final water level end of pumping / 2 2 3 metres Recommended pump 4	7,15 3 7,7 f 4	9,26
	Fresh Sulp Salty Mine	hur F erals F	iteel Fibreglass lastic Concrete alvanized				type. Shallow Deep Recommended pump 5 depth 19.69 metres	P,27 5	6.24
	Fresh Sulp			Screen			Recommended pump rate. (itres/min) 10	0.16 10	4.07
Gas	Salty Mine	diam	iteel Fibreglass	Slot No.			(fitres/min) 15 If flowing give rate - 20	2.3 15 4.4 20	3.40
After test of wel	•	as II i 🗌	lastic Concrete				(litres/min) 25	6,20 25	
Other, speci			No C	asing or Scre	en		ued, give reason. 30 /	7,77 30 7,79 40	+
Chlorinated		15,55	pen hole		11,51	22.72	50 60	7, 1 0 50 7, 1 0 60	
	etres Material a	d Sealing Record nd type (bentonite slurry	, neat cement slurry	vetc Volume	andonment Placed metres)	In diagram below Indicate north by	Location of Well v show distances of well from road v arrow.	l, lot line, and b	uilding.
0 6,0	26 Ce.	ment (ruly	120	hg.				
			······································	· · ·			PIARD	Pd /	
		Method of Con					stra d	المعرك المستعدان	
Cable Tool	entional) 🔲 Ai	itary (air) r percussion iring Water U	Diamond		Digging Other	90 290	CURP.	3	
Domestic Stock	200	Iustrial mmercial unicipal	Public Supp	iy	Other	Audit No.	Pate Well (Completed	7
Water Supply	y Rechar	Final Status	of Well	Abandor	ned, (Other)	Z	/1634 vner's information Date Delive	2006	MM DD MM DD
Test Hole	Abande	oned, poor quality Contractor/Techni	Replacemer				Ministry Use Only		
Name of Well Co	ontractor	well- Drill	W	ell Contractor's Lie		Data Source Date Received	Contractor	600	6 MM DD
Name of Well Te	90-	ume, first name)	110	ell Technician's Li		Date Received	8 ^{YY} 2005 ^{IM} DD Date of Insp Well Recor		
Signature of Tec	chnician/Contrac	ior /	Dat	te Submitted yyyy	MM DD				
0506E (08/2006)) en	and			y's Copy	, <u>L</u> ,	Cette formule	est disponible	en français





		Well T A 082584 Below)	
	Vinistry of	Well T A UOZJO4 Below)	Well Record
U UILAIIU	he Environment	NODSO/ R	Regulation 903 Ontario Water Resources Act
Measurements recorded in:	Metric	H082284	Page of

Address of Well Loo Address of Well Loo S County/District/Mur	cation (Street Numbe	r/Name) EVCO Re	od	/Temp/Village	arlet	Lot	Concessio	3	I Code
		letin	City)		Ontario	Posta	Code
UTM Coordinates Z	one Easting	Northing	Mun	itsipal Plan and Suble	ot Number	0. 1	Other		
NAD 8 3	842315		47	LAN 4M	-356	Block	7412		
Overburden and	Bedrock Materials/	Abandonment Sea	ling Record	(see instructions on the	back of this form)				~
General Colour	Most Common	Material	Other	Materials	Ge	eneral Description		De From	pth $(\frac{n_{t}}{ft})$
	Sand							0	15
	Gazi	Limps	1.0					15	60
	Grey	vince	Jere					$\left(\right)$	00
				0					
	PLAN	4R-83	368	lat3	46				
	1	Annular Space				Results of We	Il Yield Testing	3	
Depth Set at (m/ft) Typ	be of Sealant Used		Volume Placed	After test of well vie	d, water was:	Draw Down	F	Recovery
From To		aterial and Type)	a	(m³/ft³)	Clear and sad	d free	Time Water Lev (min) (m/ft)	el Time (min)	
19'0	NEST	Conort	Jun	17,8			Static 1/ 1		01.4
			6		If pumping discontin	nued, give reason.	Level D 6	4	0.1
							164	1	6'6"
					Pump intake set a	it (ag/ft)	2 (16	2	1150
					50	$) \bigcirc$		- 1	
Method of	Construction		Well Use		Pumping rate (//mi	in (GPM)	36'8		64
Cable Tool	Diamond	Public	Commercia	al 🗌 Not used	Ø	0	469	4	6'3"
Rotary (Conventio		Domestic	Municipal	Dewatering	Duration of pumpi	ng min	571	5	(1)"
Rotary (Reverse) Boring	Driving	Livestock	Cooling & A	Monitoring	Final water level en	-			60
Air percussion	Digging	Industrial		ar conditioning	81	<i>«</i>	10915	10	5'8"
Other, specify		Other, specify			If flowing give rate	(I/min-/ GPM)	15 715	15	516"



Ontario the Environment		No. (Place				lecord
Measurements recorded in:	A09:	1965 A	093965 ^{*gulatio}	n 903 Ontario Pa		ources Act of
Well Owner's Information	<u>r</u>			i Wa		
First Name D. DOREN Last Name / Organiza			E-mail Address			Constructed
Mailing Address (Street Number/Name)			Province Postal Code	e Telepho	ne No <i>. (inc</i> .	
117 WESCAR LANE. Well Location	\C	<u> </u>		<u>Milti</u>	<u> † † </u>	
Address of Well Location (Street Number/Name)	T	ownship	Lot	Conces	sion	
County/District/Municipality	с			Province	Postal	Code
UTM Coordinates Zone, Easting 714, Nothing	Man	Unicipal Plan and Subl	ot Number	Ontario Other		
NAD 8 3 0 423 280 507	5 39	•				
Overburden and Bedrock Materials/Abandonment		rd (see instructions on the er Materials	e back of this form) General Descriptio	n	Dept	th (<i>m/ft</i>)
BEN, FILC		NE	Loose.		From	1-22
BEN CLAY-	510	T	SOFT		1-22	-2-4
GFY (1AY	510	Т	WET	4	2-44	5-79

Annular Space			Results of W	ell Yield Testi	Material Internet Content of Cont	
Depth Set at (<i>m/ft</i>) Type of Sealant Use From To (<i>Material and Type</i>)	d	Volume Placed (m³/ft³)	Clear and sand free	Draw Dowr Time Water L	evel Time	
O 0.3 CONCRETE.			Other, specify	(min) (m/it) Static) (min)	(m/ft)
0.3 0.91 BENTONITE				Level 1	1	
0-713-79 5400			Pump intake set at (m/ft)	2	2	
			Pumping rate (I/min / GPM)	- 3	3	
Method of Construction Cable Tool Diamond Public	Well Use	cial 📋 Not used	Duration of pumping	4	4	
□ Rotary (Conventional) □ Jetting □ Domestic □ Rotary (Reverse) □ Driving □ Livestock	E Fest Hole		hrs + min	5	5	
□ Boring □ Digging □ Irrigation □ Air percussion つ RECT Dug □ Industrial	Cooling 8	& Air Conditioning	Final water level end of pumping (m/fit	10	10	
Dether, specify 1/1R Mugar D Other, speci	<i>b</i>		If flowing give rate (I/min / GPM)	15	15	
	epth (<i>m/ft</i>)	Status of Well	Recommended pump depth (m/ft)	20	20	
Diameter (Galvanized, Fibreglass, Thickness (cm/in) Concrete, Plastic, Steel) (cm/in) From		Replacement Well	Recommended pump rate	25	25	
4.07 YCASTIC . 368 0	1-22	Recharge Well	(<i>l/min / GPM</i>)	30	30	
		Observation and/or Monitoring Hole	Well production (I/min / GPM)	40	40	
		Alteration (Construction)	Disinfected?	50	50	
		Abandoned, Insufficient Supply		60 // fell Location	60	Note Anna an A
Outside Material De	epth (<i>m/ft</i>)	Abandoned, Poor Water Quality	Please provide a map below following		ie back.	<u></u>
(cm/in) (Plastic, Galvanizeo, Steel) From	To	Abandoned, other, specify	E			
Y. OF JURSTE TO IL	- 3.77	Other, <i>specify</i>				
Water Details		ole Diameter				
Water found at Depth Kind of Water: Fresh Untest		(<i>m/ft</i>) Diameter				0
(<i>m/ft</i>) Gas Other, specify		то (cm/in) 5-79 8,25				٤
(m/ft) Gas Other, specify				2 Will		
Water found at Depth Kind of Water: Fresh Untest (<i>m/ft</i>) Gas Other, specify			1 22			
Well Contractor and Well Technic						
Business Name of Well Contractor	-	Contractor's Licence No.	[] W			
Business Address (Street Number/Name) H2-147 WASH BOUVER COC Province Bostal Code Business Email	K Mur	Chmon of	Comments:			
Trovarce Dusiness Lanan A	Address					
Bus Telephone No. (inc. area code), Name of Well Technician	n (Last Name, F	irst Name)	Well owner's Date Package Deliver	Audit No	nistry Use	
905 164 430M Jonean.	TRUIS		delivered Y Y Y Y M M Date Work Completed		ž 100	T12
Well Technician's Licence Ve. Signature of Technician and/or-		DI ORGO	10/00/1	65 Red MA	p n a s	۱ ۵ /۹

· · ·	18	1					· · · -
1 5.	/// Ministry of		g No. (Place Sticker a	nd/or Print Below)		Well R	ecord
Ontario	the Environment		-	1	n 903 Ontari	o Water Resc	
Measurements recorde	· · · · · · · · · · · · · · · · · · ·	1 1909	<u>7164</u> A	093964 ^{julatio}	<u> 1067</u>	Page	of
Well Owner's Inform	mation Last Name / Organiz	ration		E-mail Address		Well C	onstructed
Address (Street I			Municipality	Province Postal Code	Toloph		li Owner
))) & FSCF			CAAP				
Well Location Address of Well Location			Township	Lot	Conce	ession	
117 WEAK	2 LIANE		,		Conte		
County/District/Municipa	lity	C	City/Town/Village		Province Ontario	Postal	Code
UTM Coordinates Zong	Easting 3288 Sol	573.0	Municipal Plan and Subl	ot Number	Other		<u> </u>
NAD 8 3 0	ock Materials/Abandonmen		ord (see instructions on the	e back of this form)			
	Most Common Material		ner Materials	General Description	ו	Depti From	h (<i>m/ft)</i> To
BIN F	FUL	GLA	VA	LOSE.		0	1-2
BRAN	BELAY	570	T	SOFT		1. ZZ	7.4
SRY C	2 LAY	SILT		SOFTIWE	7	2.44	5.9
· · · · · · · · · · · · · · · · · · ·				·			
Depth Set at (m/ft)	Annular Space Type of Sealant Us	dist i ad blood oo stid ook of hill on a had had	Volume Placed	Results of W After test of well yield, water was:	ell Yield Tes		covery
From To	(Material and Type		(m³/ft³)	Clear and sand free	Time Water	r Level Time V	Water Level
0 0,5	CONCRETE			Other, specify If pumping discontinued, give reason:	Static	1/ft) (min)	(m/ft)
0.3 0.61	BENTONITE. SAND.		-		Level 1	1	
8.6/ 3.41	SAND.			Pump intake set at (m/ft)	2	2	
				Pumping rate (I/min / GPM)	3	3	
Method of Cons	Diamond Diamond	Well Us			. 4	4	
Rotary (Conventional)	Jetting Domestic	Municipa		Duration of pumping hrs + min	5	5	
Air percussion	Digging Irrigation		& Air Conditioning	Final water level end of pumping (m/it)	10	10	
Other, specify	C USH C Other, spe	cify		If flowing give rate (I/min / GPM)	15	15	,
Inside Open Hole C	truction Record - Casing	Depth (<i>m/ft</i>)	Status of Well	Recommended pump depth (m/ft)	20	20	
Diameter (Galvanized, (cm/in) Concrete, Pla	Fibreglass, Thickness		Replacement Well		25	25	
4.03 PLAS	TIC 1368 0	0.91	Rechatos Well	Recommended pump rate (//min / GPM)	30	30	
			Observation and/or	Well production (I/min / GPM)	40	40	
			Monitoring Hole	Disinfected?	50	50	
			- (Construction)		60	60	
Outeide	struction Record - Screen		 Insufficient Supply Abandoned, Poor Water Quality 	Map of W Please provide a map below following	ell Location		
Diameter (cm/in) (Plastic, Galva	Cint Mo	Depth (<i>m/ft)</i> m To	Abandoned, other,			The back.	. 7
4.87 Mige	STIC 10 0.4	71 5.4	£	- S	E		
		·	Other, specify	1+	2/5		N
	Water Details		lole Diameter		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	1.	
Water found at Depth Ki (m/ft) Gas	ind of Water: Fresh Unte	sted Dept From	th (<i>m/ft</i>) Diameter To (<i>cm/in</i>)	- +	13		
Water found at Depth Ki	ind of Water: Fresh Unter	sted 💋	5.49 8-25	br		Contraction of the local division of the loc	+
(m/ft) Gas Water found at Depth Ki	Other, specify ind of Water: FreshUnter	 sted					
(m/ft) 🗌 Gas 🗌	Other, specify						
Well Buşiness Name of Well C	Contractor and Well Techn		tion Il Contractor's Licence No.				
Business Address (Street	1 Carolina	7	241				
Business Address Tstreet	Number/Name)	6 M	inicipality Ichmonolly	Comments:			
Province Posi	tal Code Business E-mail	Address					
Bus.Telephone No. (inc. are	a code) Name of Well Technici	an (Last Name,	First Name)	Well owner's Date Package Delivered	Audit	Ainistry Use	
	Signature of Pechnician and/o	Tour	5 Submitted	delivered Date Work Completed		z100	Τ Ι Ι
			WW QQQV	2017001/	15 1	<u>ir 0120</u>	010

	ecorded in:	A 0	93962	A0939	62Regulation	1 903 0. 101	ntario Wa 2 Page_	ter Re:	sources Act _ of
Well Owner's	Last Name / Organiz	ation		E-mail Ac	dress] Well	Constructed
	Street Number/Name)	TTOM	Municipality	Provínce	Postal Code	Т		by W	ell Owner
-	NESTAR		CABP	ON					
Well Location Address of Well L	ocation (Street Number/Name)	<u> </u>	Township		Lot	(Concessior	<u>) () () () () () () () () () () () () ()</u>	<u>in in an air air an a</u>
17 WE	SCAR LANE -		Cit./Town/Villago			Provinc	~~	Deste	
County/District/W			City/Town/Village			Onta		FOSIC	I Code
UTM Coordinates NAD 8 3		5 736	Municipal Plan and Suble	ot Number		Other			
Overburden an	d Bedrock Materials/Abandonment			back of this form				Der	oth (m/ft)
General Colour	Most Common Material	Oth	ner Materials		General Description	ዂ		From	
RAN	FICC CIAV	GPT.	T	7	DENSE-		1	$\frac{\mathcal{O}}{\mathcal{O}}$	
3 R V	CIAY	571	$\frac{1}{\tau_{i}}$		SOF7		1	5	<u></u>
<i>F</i>	C (0 -)		4						
<u>*************************************</u>									
	Annular Space	******			Results of We				
Depth Set at (<i>n</i> From T	n/ft) Type of Sealant Us o (Material and Type)		Volume Placed (m³/ft³)	After test of we	ell yield, water was: I sand free	Time	iw Down Water Leve		Recovery Water Level
0 0.	3 CONCRETT.			Other, sp	continued, give reason:	<i>(min)</i> Static	(m/it)	(min)	(m/ft)
).3 0.	91 BENTONIE	١		in partipling alo	onninaed, give reason.	Level 1		1	
. 71 2.	13 SAND			Pump intake	set at <i>(m/ft)</i>	2		2	,
	<u>าาาาาา</u> างกลางครามปลังเมตราวาาางการแอนปลังมันแรง [และปรากะจังกรีปังเป็นเป็นสินสินสินสินสินสินสินสินสินสินสินสิน			Pumping rate	(l/min / GPM)	3		3	
Method o	f Construction	Well Us		Duration of p	, ,	4		4	
Rotary (Conver		Municip		hrs +	min	5		5	
Boring	Digging Irrigation		& Air Conditioning	Final water lev	el end of pumping (m/it)	10		10	
Air percussion		sify		If flowing give	rate (I/min / GPM)	15		15	
Inside Ope	Construction Record - Casing	Depth (<i>m/ft)</i>	Status of Well	Recommende	d pump depth (m/ft)	20		20	
Diameter (Gal (cm/in) Con	vanized, Fibreglass, crete, Plastic, Steel) (cm/in) From		Replacement Well	Recommende	ed pump rate	25		25	
145	MASTIC 10 0	1.22	Recharge Well	(I/min / GPM)		30		30	
/			Observation and/or Monitoring Hole	Well production	on (I/min / GPM)	40 50		40	
			Alteration (Construction)	Disinfected?		60		50 60	
	Construction Record - Screen		Abandoned, Insufficient Supply	Yes []	Map of We		ation		
Outside	Material Slot No.	epth (<i>m/ft)</i>	 Abandoned, Poor Water Quality Abandoned, other, 	Please provide	e a map below following	instructio	ons on the b		
(cm/in) (Plast	From From From From From From From From	$\frac{1}{7}\frac{1}{7}$			E	(Faraa	ze	
T'F(f	MASTIC 10 1.1	4-0	Other, specify		T	Π	30		
	Water Details		lole Diameter		Its	mi	21-2m		
	epth Kind of Water: Fresh		th (<i>m/ft</i>) Diameter To (<i>cm/in</i>)	N		Γ			9
	Gas Other, <i>specify</i> epth Kind of Water: Fresh Unte	sted D	2.35.71				カイ		
· · ·	Gas Other, specify	sted							
	Gas Other, specify				N				
Business Name o	Well Contractor and Well Techn f Well Contractor		tion Support of the state of th			·····			
stata	Street Number/Name)	-7		Comments:	6				
A2-147	West Beaver Lie	zek l	Thicipality Sychmond Hi	Comments:					
Province	Postal Code Business E-mail	Address		Well owner's	Date Package Delivere	d	Minis	try Us	e Only
	(inc. area code) Name of Well Technici			information package	Y Y Y Y M M		Audit No.	101	D176
10) / 10 Veli Technician's Lic	zence No. Signature of Technician and/e		te Submitted	delivered	Date Work Completed		·		
$2 \wedge + h$			0100909	No No	201001	181		IN U	1 2010

()- Ont:	Ministry of ario the Environment		g No. (Place Sticker a	· _	1		Well R	
Measurements		I AC	93972	A U93	972		ario Water Reso 🏹 Page	ources Act of
***************************************	s Information					-100,	<u> </u>	
First Name	IEN Last Name / Organiz			E-mail Address				Constructed all Owner
Mailing Address	S(Street Number/Name)	N	Iunicipality CARO	Province	Postal Code	e Tele	ephone No. (inc. i	area code)
Well Location	n		, e		<u> </u>			
	Location (Street Number/Name)	T	ownship		Lot	Co	ncession	
County/District/	Municipality	C	ity/Town/Village			Province Ontari		Code
UTM Coordinates	UNA 2 10 ALAN	<729"	Iunicipal Plan and Subl	ot Number		Other		
NAD 8 3 Overburden ar	3 (0 9 4 6 7 9 1 1 9 9 1 nd Bedrock Materials/Abandonmen	Sealing Reco	rd (see instructions on the	e back of this form)				
General Colour		1	er Materials	Gene	ral Description	1	Dept From	th (<i>m/ft)</i> To
DRN	FUL	GRAU	Ē.	600	₩E.		0	1.22
DEN	CUNY	SILT SILT	- 	5047	-1 , = -		1.22	2.4
GPY	SLOTY	0167		5011	1651	2	79	f D. 7
				· · · ·				
· · · · · · · · · · · · · · · · · · ·			· · · ·					
	Annular Space			1	Results of W			
Depth Set at (/ From		ed	Volume Placed (m ³ /ft ³)	After test of well yield,	water was:	Draw	Down Re	ecovery Water Level
-0	· material and type	/	<u>(),,,,,,</u>	Other, specify		(min)	(m/ft) (min)	(m/ft)
0 0.3	3 CONCRETE.			If pumping discontinue	ed, give reason:	Level		
0.3 0.	91 BENTONITE	٦		Pump intake set at (n	n/ft)	2	2	
0.91 5.	TA SAND					3	3	
Method (of Construction	Well Us		Pumping rate (I/min /	GPM)	4	4	
Rotary (Conve	entional)	Municipa Test Hole	I Dewatering	Duration of pumping hrs + r	nin	5	5	
Boring	Digging Irrigation		& Air Conditioning	Final water level end o	f pumping <i>(m/it)</i>	10	10	
Other, specify		cify		If flowing give rate (1/r	nin / GPM)	15	15	<u> </u>
Inside Op	Construction Record - Casing	Depth (<i>m/ft</i>)	Status of Well	Recommended pump	o depth (m/ft)	20	20	
	alvanized, Fibreglass, Thickness Increte, Plastic, Steel) (cm/in) From	m To	Replacement Weli			25	25	
4.03 1	PINGTIC ,368 0	1.2t	Recharge Well Dewatering Well	Recommended pump (I/min / GPM)	o rate	30	30	
			Observation and/or Monitoring Hole	Well production (I/min	л / GPM)	40	40	
			Alteration (Construction)	Disinfected?		50	50	
	Construction Record - Screen		Abandoned, Insufficient Supply	Yes No	Map of W	ell Locati	60	
Outside	Material Slot No.	Depth (<i>m/ft</i>)	 Abandoned, Poor Water Quality Abandoned, other, 	Please provide a map				
(cm/in) $(Plas)$	From From From From From From From From	m To	specify			10		17
9.05 10	4ts/1 10 1.2	<u>v 5.//</u>	Other, specify			10	<u>`</u>	N
	Water Details		ole Diameter	E	+117		Stel.	
	Depth Kind of Water: Fresh Unte		n (<i>m/ft)</i> Diameter To (<i>cm/in</i>)		$(\mathcal{F}_{\mathcal{F}})$		-N N	
	Gas Other, <i>specify</i>	sted	5. 79 825	† L_	A	2	om	\searrow
	Gas Other, specify Depth Kind of Water: Fresh Unte	sted		lu	•		the second s	
	Gas Other, specify				2.5	м		
Buşiness Name o	Well Contractor and Well Techn of Well Contractor		ion Contragtor's Licence No.					
Strata Business Address	s (Street Number/Name)	NA		Comments:				
12/11	West Beauld Che	ek p	nicipality NCIMONOLHI					
Province	J Postal Code LABIC6	Address		Well owner's Date P	ackage Delivere	d 1	Ministry Use	Only
Bus.Telephone No	o. (inc. area code) Name of Well Technici		First Name)	information	YYMM	Au	^{dit No.} Z 100	
Well Technician's Li				Yes Date W	ork Completed		MAR 0 1	
1311 15	59	ar	DICOULDIS	DN0 76	1 0 0 I	b B Rec	ceived	2000 000 000 000 000 2000 000 000 000

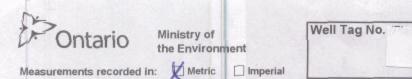
	ntario	_/	ironment	perial		19 No. (P) 5 9 3	ace Sticker a	nd/or	Print Below)	Regulation	1903 OI 26		ter Reso	ecord ources Act
Well Own	er's Infor	mation	st Name / O	vanization					E-mail Addres	s				constructed
1010	7439	C	Intari		mited						1	alambana	by Wel	Il Owner area code)
Mailing Addr		Number/Nam	Ave			ottai	Va		O N	Fostal Code		elephone	NO. (Inc. a	
Well Loca	tion									Lot		Concessio	n	
	Nesca	on (Street Num	ber/Name)			Township				LOC		Jonecsolo		
County/Dist	and the second se	the state of the second st	1			City/Town/					Provinc		Postal	Code
UTM Coordir	nates Zone			thing			Plan and Sub	lot Nu	mber		Other		1 1 1	
NAD	8 3 1 1	B 4 23 2 drock Materia		0 1 5		ord (see in	structions on th	ne back	of this form)	CHARMENTER ST	1.000	1111593	1.216.54	THE REAL PROPERTY.
General Co		Most Comm				ther Materi				eneral Descriptior	1		Dept From	th (<i>m/ft</i>) To
		1								<u></u>				
		1												
Depth Se	et at (<i>m/ft</i>)		Annular Type of Sea	and the second se		Volu	ume Placed	Aft	ter test of well y	Results of W ield, water was:		d Testing aw Down	R	ecovery
From	То	0	(Material an				(m³/ft³)		Clear and sa Other, speci		Time (min)	Water Lev (m/ft)	vel Time (min)	Water Level (m/ft)
0	.31	Concr								tinued, give reason	Static Level			
1 31	1.83	Ben	seal d								1		1	
1.83		Gron	+ 5/4	irry				- PL	ump intake set	at (<i>m/ft</i>)	2		2	
Moti	hod of Co	Instruction		1994	Well	Use		PL	umping rate (1/r	nin / GPM)	3	1	3	
Cable To	ool	Diamond			Comr	mercial	Not used	D	uration of pum	ping	4		4	
Rotary (I	(Conventiona (Reverse)	Driving		estock	Test I	Hole	Monitoring	- 10	hrs +	min	5		5	
Air percu		Digging		ustrial		ng & Air Cor	nditioning	F	nali water level e	end of pumping (m/l	10		10	
Other, s		Instruction R		her, specify		Sta	tus of Well	If 1	flowing give rat	te (l/min / GPM)	15		15	
Inside Diameter	Open Ho	le OR Material	Wall		th (<i>m/it</i>)	U Wa	ter Supply		ecommended	pump depth (m/ft)	20		20	
(cm/in)		ed, Fibreglass, , Plastic, Steel)	Thickness (cm/in)	From	То	- Tes	placement Wel st Hole		ecommended	pump rate	25 30		25 30	
4.03	PVC	2	.368				charge Well watering Well	a	min / GPM)		40		40	
			1.2	-		Mo	servation and/or nitoring Hole		ell production	(Vmin / GPM)	50		50	
-						(Cc	eration onstruction)		sinfected?		60		60	
Differences	C	Construction R	ecord - Scre	en		Ins	andoned, ufficient Supply andoned, Poor			Map of \				
Outside Diameter	N	/laterial alvanized, Steel)	Slot No.	Dep	oth (m/ft)	W	er Quality andoned, other	P		map below followin		tions on th	e back.	1A
(cm/in)	PV		17	From	То	spe	needed		6	rescar lu	`			h
4.82	1.	<u> </u>	ID			00	her, specify				1			
		Water De	tails			Hole Dia	meter	=				3Dm		1
		Nind of Wate	r: Fresh	Unteste	ed D From	epth (<i>m/ft)</i> n To	Diamete (cm/in)				-	30.		1
		b Contract Sector Secto		Unteste	d D	1.83	20.32	2	1		10) E	230	
		b Kind of Wate		Unteste	ed		<u> </u>							
	m/ft) 🗌 Gas	s Other, sp	ecify		_									
Business t	ALL	Vell Contractor		Technic		Well Contra	ctor's Licence N	lo.	L		_			
Stract	aso	il Sar		ng		7 Z Municipalit	141	-	comments:					
214	17 n		earer	- dies	etc 1	5 1	onelli	11	erninenta.					
Province	,	Postal Code	Busines	s E-mail A	0 0		oil.com	NV		Date Package Delive	ered	Mir	nistry Us	se Only
	hone No. (ind	c. area code) N	ame of Well	Technician	(Last Nan	ne, First Na		ir	formation ackage	Y Y Y M N	1.	Audit No		781
905 Well Techn	DG 44	2304/	e of Technic	an and/or	Contractor	Date Subm	itted		Yes	Date Work Complete	ed	14414	8 8 8	9848
34	14	8/14	the 1	No	5	2010			No 2	201021	16%	REAL	03	2010
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	ntario	1	ironment	perial		g No. (Plac 9 391		d/or Print	Below)	Regulation	903 Qn		er Reso	ecord
	er's Info		st Name / O	raanizatio	24.111	ing filli	121997	E-mai	il Address		11116		Well C	onstructed
279L	139		ntario		mited						-	-lankana h	by Wel	I Owner
ailing Addr	ress (Street	Number/Nam	e) tre		N	Municipality	a	Provin	N	KIZICILI	w2	elephone N	lo. (inc. s	irea code)
ell Loca	-	10.12 /	1	a serie		0110-0								
		on (Street Num	ber/Name)		1	Township				Lot	C	Concession		
ounty/Dist	rict/Municip				(City/Town/Vil					Provinc		Postal	Code
M Coordir	nates Zone	Fasting	. Nor	thing		Carp Municipal Pla) an and Sublo	ot Number			Onta	rio		
NAD	8 3 1 4	84232	180 50	0115	739									
verburde		drock Materia Most Comm		nment Se		ord <i>(see instr</i> her Materials		back of this		neral Description			Dept	h (<i>m/ft</i>) To
		and the second	Annular	Space						Results of We	ell Yield	d Testing	1999	
Depth Se From	et at (<i>m/ft</i>) To		Type of Sea (Material and	lant Used			e Placed		of well yie ar and san	eld, water was: nd free		aw Down Water Leve		ecovery Water Level
ð	.31	Concret						100000000000000000000000000000000000000	er, specify		(min) Static	(m/ft)	(min)	(m/ft)
31	1.83	Bens	eal					If pumpir	ng disconti	nued, give reason:	Level		1	
83		Growt	eal t Slur	ry				Pump in	take set a	it (m/ft)	1		2	
~				1						- 1	3		3	
Meth	hod of Co	Instruction			Well U			Pumping	g rate (I/m	in / GPM)	4		4	
Cable To	ool Conventiona	Diamond		blic mestic	Comm		Not used Dewatering	a contraction of the	n of pumpi		5		5	
Rotary (I Boring	Reverse)	Driving		estock aation	Coolin	tole	Monitoring diamond		hrs + ter level er	min nd of pumping (m/ft)			10	
] Air percu] Other, s				ustrial ner, specify	,			16.0		111-1- (CDM	15		15	
		Instruction Re				Statu	s of Well		g give rate	e (l/min / GPM)	20		20	
Inside Diameter	(Galvaniz	le OR Material ed, Fibreglass,	Wall Thickness	Sec. 1	oth (<i>m/1</i> t)	Water	Supply cement Well	Recom	mended p	ump depth (m/ft)	25		25	
(cm/in)	-	, Plastic, Steel)	(cm/in)	From	То	Test H Recha	lole	Recomm (I/min / C	mended p	ump rate	30		30	
.45	PVI	L	.356			- Dewa	tering Well	1			40		40	
						Monito	vation and/or oring Hole	Well pro	oduction (l	/min / GPM)	50		50	
						Cons	struction)	Disinfec	ted? s 🗌 No		60		60	
	0	construction R	ecord - Scre	en		Insuff	icient Supply doned, Poor			Map of W				
Outside Diameter	N	Material	Slot No.	Dep	oth (<i>m/ft</i>)	Water	r Quality doned, other,	Please	provide a r	map below following	g instruct	tions on the	back.	1
(cm/in)	-	alvanized, Steel)	10	From	То	spęcil	and the standard in the standard			wescar	Ln			_
1.21	P	VZ	10			Other	1			1		1.000		1
		Water De	taile			Hole Diam	otor	-						1
later four	nd at Depth	Kind of Wate	the support of the su	Untest	ed De	epth (m/ft)	Diameter (cm/in)			35m				
		S Other, species of Wate		Untest		1.83	20.32							-7
(1	m/ft) Gas	s Other, spo	ecify		_	105				ØCT	240	m		
		h Kind of Wate		Untest	ed		•							
(1		Vell Contract		Technic				i						
1.1.200	and the second se	ell Contractor	10			Vell Contracto								
1.1.200	V Name of We	1 -	ralin	a				1						and the second se
usiness M	Name of We Address (St	reet Number/N		JA	1 . 6	Municipality	. /11	Comme	ents:					
usiness M	Name of We $4a_{5}$ Address (St 17W	reet Number/N	amb) ,	g S E-mail A	ek #	Municipality Zizhnz	anditio	Comme	ents:					
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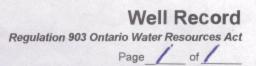
	ents recorded in:	ironment	1	Well Tag No. (Place Sticker and/or Print Below) A 093965				Well Record Regulation 903 Ontario Water Resources Act Page JAGS Page Of Y					
First Name	100	st Name / Org		<u>1111211111111111111111111111111111111</u>	E-mail Address	<u>1111710117</u>				Constructed			
Mailing Add	ress (Street Number/Nam	ontario	and the second	Municipality	Province	Postal Code	-	elephone N		area code)			
1525	5 Ortona	Ave		ottawa	ON	KJCI	W2						
Well Loca Address of	Well Location (Street Num	ber/Name)		Township		Lot	(Concession					
M7 County/Dist	Wescor Ln			City/Town/Village			Provinc	e	Postal	Code			
				Carp			Onta	irio	11				
UTM Coordi	83 18 4233	17 8 50	hing	Municipal Plan and Suble	ot Number		Other						
Overburde	en and Bedrock Materia	Is/Abandon	ment Sealing Rec	ord (see instructions on the her Materials		eral Description	11111		Dep	th (<i>m/ft</i>)			
General Co	olour Most Comm								From				
		Annular S	ipace			Results of W	ell Yiel	d Testing					
Depth Se From	et at (m/ft) To	Type of Seala (Material and	ant Used	Volume Placed (m³/ft³)	After test of well yiek	d, water was:	Dr	aw Down		ecovery Water Level			
D	.31 Concre	1	(),,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(mini)	Other, specify		(min) Static	(m/ft)	(min)	(m/ft)			
.31	1.83 Ben	seal	and the second		If pumping discontine	ued, give reason:	Level						
1.83	Gront	slurn	ŋ		Pump intake set at	(m/ft)	1		1				
			1				2		2				
Meth	hod of Construction		Well U		Pumping rate (Vmin	/ GPM)	3		3				
Cable To Rotary (Conventional) Diamond	Dom		(CTC)	Duration of pumpin	The second s	4		4				
Boring	Reverse) Driving	Lives		lole Monitoring	hrs + Final water level end	_min l of pumping (m/ll			10				
Air percu	ussion	Indu:					15		15				
	Construction R			Status of Well	If flowing give rate (l/min / GPM)	20		20				
Inside Diameter	Open Hole OR Material (Galvanized, Fibreglass,	Wall Thickness	Depth (m/ft) From To	Water Supply	Recommended pur	mp depth (m/ft)	25		25				
(cm/in)	Concrete, Plastic, Steel)	(cm/in)	FIOIN TO	Test Hole Recharge Well	Recommended pur	mp rate	30		30				
4.03	PUL	.368		Dewatering Well	(I/min / GPM)		40		40				
				Observation and/or Monitoring Hole Alteration	Well production (I/n	nin / GPM)	50		50				
				(Construction)	Disinfected?	Sec. 1	60		60				
-	Construction R	ecord - Scree	m	Abandoned, Poor		Map of V	Vell Loc	cation					
Outside Diameter	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From To	Water Quality Abandoned, other,	Please provide a ma			tions on the t	back.	1 9			
(cm/in) 4.82	PUZ	ID	10	not needed	w	escar In	·			1 0			
	Water Det nd at Depth Kind of Wate	the second s	and the second se	Other, specify Hole Diameter epth (m/ft) Diameter	25*	1		0.15.00		Core			
(1	n/ft) Gas Other, spe	cify	From	To (cm/in) 1.83 20.32		0,1		240m		-7			
(1.	nd at Depth Kind of Wate m/ft) Gas Other, spe	ncify		403 04.20						1			
	nd at Depth Kind of Wate		Untested							1			
	Well Contracto		Fechnician Inform	and the state of the second	i –								
	hame of Well Contractor	mplin		Vell Contractor's Licence No. 7 2 4 1									
Business A	Address (Street Number/Na	ime) 1	J	Aunicipality /	Comments:								
Province	Postal Code	Business	E-mail Address	Lichmonel Hil									
ON			echnician (Last Name		information	Package Delive	red	Minis Audit No.	try Us	e Oníy			
905	76493041	nuit	Mike		Date	Y Y Y M M		z 1	11	786			
Well Technic	cian's Licence No. Signature	of Technicar	and/or Contractor	Date Submitted	Yes	01003		ReaMAN	10:	3 2010			
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	ntario Ministry the Env	jronment	A	ng No. (Place Sticker an 093964	d/or Print Below)	Regulation	· · · · /	Well R io Water Reso Page 4	ources Act
the second se	er's Information		Charles States	and a second		10			
First Name		Ist Name / Org			E-mail Address			by We	Constructed
	ress (Street Number/Nam	e)		Municipality OHayla	Province	Postal Code		hone No. (inc.)	area code)
Well Loca		Ave	URID HILL	onava		0 ACL			
	Well Location (Street Num Wescar Ln	ber/Name)		Township		Lot	Conc	ession	
	rict/Municipality			City/Town/Village			Province	Postal	Code
UTM Coordin	nates Zone , Easting	, North	ning	Carp Municipal Plan and Sublo	t Number		Ontario Other		
NAD	83184232		115759						
Overburde General Co				ord (see instructions on the her Materials	and the second	neral Description	1	Dep	th (m/ft)
		Annular S	pace			Results of W	ell Yield Te	sting	1000
Depth Se From	et at (m/ft) To	Type of Seala (Material and		Volume Placed (m ³ /ft ³)	After test of well yie Clear and san		Draw D Time Wat		Vater Level
0	.31 Concr	ete			Other, specify		Otatia	(m/ft) (min)	(m/ft)
,31	683 Bense	al			If pumping discontin	lued, give reason:	Level	1	
1.83	Grow	t Sluri	7		Pump intake set a	t (m/ft)	2	2	
							3	3	
	nod of Construction		Well U	and the second se	Pumping rate (I/mi	n / GPM)	4	4	
Cable To Rotary (Conventional) Used Jetting	Dom	estic 🗌 Munic	ipal Dewatering	Duration of pumpin hrs +	ng min	5	5	
Rotary (F Boring	Reverse) Driving	Lives		Iole Monitoring	Final water level en	-		10	
Air percu		Indus Othe	strial r, specify		If flowing give rate	Almin / CDMI	15	15	
	Construction R	ecord - Casli	ng	Status of Well	In nowing give rate	(vnin / GPm)	20	20	
Inside Diameter	Open Hole OR Material (Galvanized, Fibreglass,	Wall Thickness	Depth (m/ft) From To	Water Supply Replacement Well	Recommended pu	imp depth (m/ft)	25	25	
(cm/in) 4.03	Concrete, Plastic, Steel) PVC	(cm/in)		Test Hole Recharge Well	Recommended pu (I/min / GPM)	imp rate	30	30	
-1,05	100	.368		Dewatering Well			40	40	
				Monitoring Hole	Well production (//	min / GPM)	50	50	
				(Construction)	Disinfected?		60	60	
NUT	Construction R	ecord - Scree	n	Insufficient Supply			lell Locatio		
Outside Diameter	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From To	Water Quality Abandoned, other,	Please provide a m	nap below following	g instructions	on the back.	1 1
(cm/in) 4.82	PVC	ID		not needed		wescar			
4.00	110			Other, specify	1		-		G
	Water De	tails		Hole Diameter		15			Cortenuo
	nd at Depth Kind of Wate		Untested De From	epth (<i>m/lt</i>) Diameter To (<i>cm/in</i>)		25m	2.	50 M	18
	nd at Depth Kind of Wate		Untested O	1.83 20.32		1	-		-7
	n/ft) Gas Other, spe nd at Depth Kind of Wate		Untested		8	G			
	n/ft) Gas Other, spe								,
Business N	Well Contractor	or and Well T	echnician Inform	Nation Well Contractor's Licence No.					
Strab	la Soil San	pling		7241					
	West Beau			Municipality Richmonel 414	Comments:				
Province	Postal Code	Business	E-mail Address	1				AND AND AND AND	
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34	148 May	H N	and/or Contractor I	ZO LOO3 3 6		01003	19 Rec	MAY 0 3 ceived	2010
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Ministry of Well Tag No. (F Well Record Ontario the Environment A104867 Regulation 903 Ontario Water Resources Act easurements recorded in: 🕺 Metric Imperial Page of / Well Owner's Information 90 BATES CONST. MENT First Name MARNEK HONSINGS Well Constructed by Well Owner Mailing Address (Street Number/Name) Province COAILO (613)831-7044 CAR Well Location Concession 3 Address of Well Location (Street Number/Name) Township Lot 6 HUNTET County/District/Municipalit Province City/Town/Vil OTTA A CARLETON CARP KOAILO. Ontario UTM Coordinates Z Municipal Plan and Sublet Number BLOCKS 28431. NAD 8 3 18 42 JOIJHO Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on the back of this form) Depth (m/ft) From To Most Common Material Other Materials General Description General Colour CLAY GREY 0,00 4.61 SAD SAND, GRAVEL, BOULDERS GREY TILL 4.61. 7.32 SIGNE GREY WINESTON 7.32 5.08 **Results of Well Yield Testing** Annular Space Volume Placed (m3/ft3) Recovery Depth Set at (m/ft) Type of Sealant Used After test of well yield, water was: Draw Down (Material and Type) Time Water Level Time Water Level Clear and sand free (min) (m/ft) (m/ft) Other, specify (min) 0 8.23 030 242 Static If pumping discontinued, give reason: Level NA. 2.45 1 261 Pump intake set at $(m/n/30^{\circ})$. 2 257 11 2 153 11 3 3 Method of Construction Well Use pm (12gon) 54 11 ,50 Commercial 4 4 Diamond Not used Cable Tool Public Durat hrs + 0 r Jetting Domestic Municipal Dewatering Rotary (Conventional) -11 249 5 5 min Rotary (Reverse) Driving Livestock Test Hole Monitoring 2.49 Cooling & Air Conditioning Boring Irrigation Digging 10 10 2.48 2004m (86 Air percussion Industrial Other, specify Other, specify 253 15 15 11 **Construction Record - Casing** Status of Well 2.59 11 20 20 Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel) Wall Thickne Water Supply Inside Depth (m/ft) Diameter (cm/in) 1.10m (30 25 7.62 25 4 From To (cm/in Test Hole 688 Skel ASB9 11 30 2.63 0,49 30 40.60 BZ3 Recharge Well Om (IL Dewatering Well 2.47 264 40 40 Observation and/or pm/k Monitoring Hole 50 11 50 11 Alteration 60 2.46 (Construction) 11 60 Abandoned, Insufficient Supply No Yes Construction Record - Screen Map of Well Location Abandoned, Poor Outside provide a map below following instru-ARRA (m/ft) Water Quality Material Diamete Slot N Abandoned, other, (Plastic, Galvanized, Steel) From To (cm/in) specify Other, specify AZ DE Hole Diameter Water Details Water found at Depth Kind of Water: Fresh Vuntested Depth (m/ft) Weiger sound at Depth Kind of Water: Fresh VUntested B23 Diameter To (cm/in) 35.08 15.74 (m/ft) Gas Other, specify Water, found at Depth Kind of Water: Fresh Untested DEL (m/ft) Gas Other, specify. Well Contractor and Well Technician Information STRUCT DEMUNG WC e No 481 Address (Street Number/Name) BOX 219 Comments Municipality Parathan Postal Code Business E-mail Address Time beliet Well owner's Ministry Use Only information package delivered (Last Name, First Name) Audit No. 2 102951 Yes actor Date APR 0 5 2011 No No © Queen's Printer for Ontario; 2007 Ministry's Copy



Chiller and/or Print Relow) A117442



Address of Well-L	esation (Street Number/N	ame)		Township HUNT	They Lot 6 Concession 3				
County/District/Mu	unicipality	CARL	ED	City/Town/Village		Ŧ	Province Ontario	Postal Code	
UTM Coordinates	Zone Easting	Northing	6700	Municipal Plan and Subl	ot Number		Other	inina.	
NAD 8 3	Bedrock Materials/Ab		DTDD t Sealing Rec	ord (see instructions on the	back of this form)	CONTRACTOR			
General Colour	Most Common Ma			ther Materials	CONTRACTOR OF THE OWNER OF THE OWNER	al Description	1	Depth (m//t) From To	
BRANKER	Y Signal		CAN					0000 209	
CREY	TILL		SonD,0	SLAVEZ, BOU	NORS			289 7.02	
GREY	KINESTENE		SHALE	5				7.02 33.00	
								(15').	
						10.00			
Depth Set at (m	statement of the second s	nular Space		Volume Placed	After test of well yield, w		Draw Dov	the second s	
From DI		ial and Type		(m³/ft³)	Clear and sand fre		Time Water (min) (m/	Level Time Water Level (min) (m/ft)	
one one	1 napply	Appor	yey	0040	If pumping discontinued	d, give reason:	Static Level 17	9	
	grand	Ball	eng.		NA		119	9 1 2.07.	
					Pump intake set at (m	Pant	2 1.9	7, 21.98	
					Pumping rate (1/min / G	qe J.	3 1.9	5 3 1.95	
Method of Cable Tool	Diamond	Public	Well L	the second s	401pm (10gpm)	41.9	41.875	
Rotary (Convent	tional)	Domestic	Munic Munic	ipal Dewatering	Duration of pumping hrs + 0 m	in	5 2 M	5 /9/	
Rotary (Reverse Boring	Digging	Livestock Irrigation	Coolir	ng & Air Conditioning	Final water level end of	pumping (m/it	10 70	1 10/86	
Air percussion		Other, spe	ecify		If flowing give rate (Up	in/GPM)	15 20	15 RA	
	Construction Record			Status of Well	NIA	•	20 2.0	8 20 83	
Diameter (Gal	en Hole OR Material VVa vanized, Fibreglass, Thick	ness -	Depth (<i>m/ft</i>)	Water Supply Replacement Well	Recommended pump	depth (m/it)	25 2.14	25 1.87	
(cm/in) Cond	crete, Plastic, Steel) (cm	0+1	600	Test Hole Recharge Well	Recommended pump	rate	30 2.0	9 30 181	
Bu a	and con	2 10 14	0 0.01	Dewatering Well	431pm 0	legon ,	40 2019	5 40 1.81	
				Observation and/or Monitoring Hole Alteration	Well production (I/min	2 Man	50 2.1	0 50 /B/	
				(Construction)	Disinfected? Yes No	11-	60 2	60 681	
	Construction Record	Screen	1/A.	Abandoned, Poor	2	Map of W	/ell Location	1	
Outside Diameter (Diset	Material	No	Depth (m/it)	Water Quality Abandoned, other,	Please provide a map I			the back.	
(cm/in) (Plaso	ic, Galvanized, Steel)	Fro	m To	specify		41	•	IN	
	· ·			Other, specify		d.	2 Wesce	IT W	
	Water Details			Hole Diameter					
Water found at D	hepth Kind of Water:	esh 🗶 Unte	ested De	epth (m/ft) Diameter	Wal-	7		X	
	Gas Other, specify	resh VUnte	From	3.18 K.74	T			2	
X1 (m/ft)	Gas Other, specify	1		voice isog	123 64	Tran			
51	epth Kind of Water: F Gas Other, specify	resh XUnte	ested		1 Maiore			2	
	Well Contractor and	Well Tech	nician Inform	ation				p.	
Business Name of		- 1.1.	0	Well Contractor's Licence No.					
Business Address	(Street Number/Name)_	ARCH	5 AP	Municipality 14A	Comments:			M	
Province	Postal Code Bu	siness E-ma	I Address	abod of					
CN But Talahan	KUAZXU :	tanta	anling	enu.ner.	information //	ackage Deliver	-	linistry Use Only	
1013 A	(inc. area code) Name of	A TA	PE	e, First Name)	package delivered	ncle	Audit N	132976	
Well Technician's Lic	cence No. Signaturo de Tec	hpician and	Contractor D	Date Submitted MM	Yes Date W	brk Completed	52	JUL 0 8 2011	
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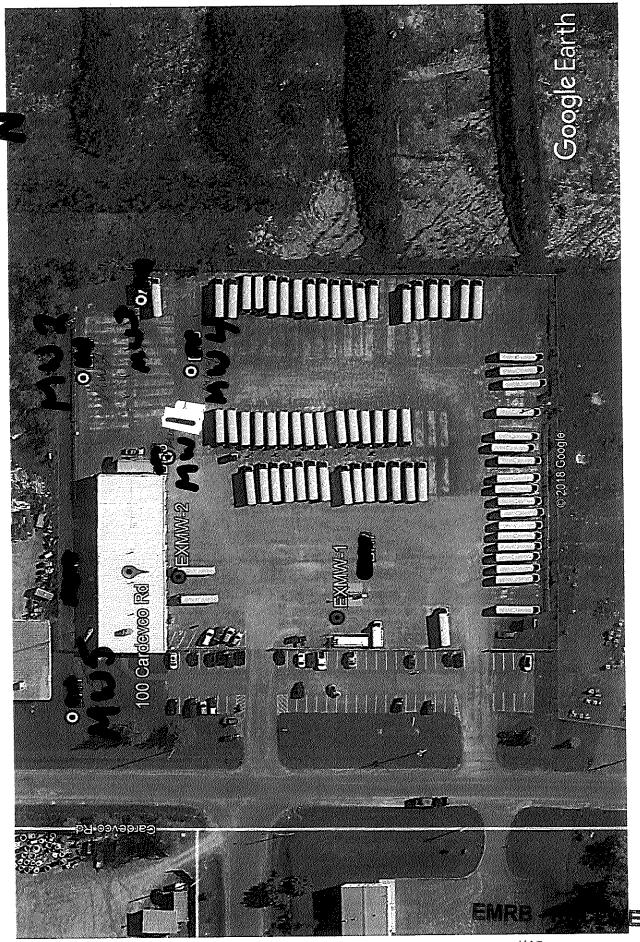
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We

Well Record

Measurements re-		a na antaré di setter a setter de la setter d		A135308		Neguiatio	, 303 (Dntario Wai Page_		
Well Owner's I First Name		Name / Organization			E-mail Address				1 Well	Constructed
Mailing Address (S	treet Number/Name)	Akman Cor		tion Municipality	Province	Postal Code	- university	Telephone N	by W	ell Owner
	devco Road			Carp	ON	KQA				
Well Location Address of Well Lo	cation (Street Number	/Name)		Township		Lot		Concession		
123 Car	devco Road			West Carleto	on	6. S.		3		
County/District/Mu			1	City/Town/Village			Provir Ont		Posta	I Code
JTM Coordinates 2	Zone Easting	Northing		Municipal Plan and Suble	ot Number		Other			
NAD 8 3	10 423286 Bedrock Materials//			4R8368 ord (see instructions on the	back of this form)		<u> </u>	<u>irt 9 & 1</u>	2	
General Colour	Most Common N			her Materials		al Description			From	oth (<i>mft)</i> To
		Sand & Gravel		e 🔫 🛛 Boulders					0'	11
					: :				11 1	
	MD 454 - 1 - 245 (24) - 44 - 4 					·		• .	78 '	93 ′
		· ·								
Depth Set at (m(🕽 🔰 Туре	nnular Space e of Sealant Used terial and Type)		Volume Placed	R After test of well yield, w □ Clear and sand fre		Dr	aw Down	<u></u>	ecovery
20 1 0				15.8	Other, specify	Not teste		Water Level (m/ft)	(min)	(m/ft)
					If pumping discontinued	l, give reason:	Level	7.8		19.7 '
					Pump intake set at (m.	/ft)	1	18:7	100 i	7.6
					90		2	14.2	2	7.8
Method of	Construction		Well Us		Pumping rate (I/min / 6	EM)	3	14.8	3	7.8 7.6
Rotary (Conventio	nal)		Comme Municip	al Dewatering	Duration of pumping		5	15.4	5	7.6
] Rotary (Reverse)] Boring	Driving		Test Ho Cooling	le	Final water level end of		10	17.3	10	7.6
Air percussion] Other, <i>specify</i>	· · · · · · · · · · · · · · · · · · ·	Industrial Other, specify			19.7 ^{//} If flowing give rate (l/mi	in / GPM)	15	18.4	15	7.6
	Construction Record			Status of Well	$\sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum_{i=1}^{n} \sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum_{i=1}^{n} \sum_{i=1}^{n} \sum_{i=1}^{n} \sum_{i$	a de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la const	20	19.5	20	7.6
Diameter (Galvar	nized, Fibreglass, Thic	Vall Depth (<i>m</i> kness m/in) From	To	Water Supply	Recommended pump	depth (m2,fD)	25	19.6	25	7.6
5/14" Ster		188' +2'	20	Test Hole Recharge Well	Recommended pump i	rate	30	19.6	30	7.6
	in Hole	20 /	100	Dewatering Well Observation and/or	20 Well production (I/min /	600	40	19.7	40	7.6
0 116				Monitoring Hole	20+	SELLAP	50	19.7	50	7.6
	-			- (Construction)	Disinfected?		60	19.7	60	7.6
Outside	Construction Record Material Galvanized, Steel) Slo	I - Screen Depth (<i>m</i> / t No. From	/ft) To	Insufficient Supply Abandoned, Poor Water Quality Abandoned, other, specify	Please provide a map be	Map of We elow following in			ck.	
	Water Details		H	Other, specify		. (
$\frac{78}{93} (m/2) \square Ga$	th Kind of Water: F is Other, specify h Kind of Water: F is Other, specify h Kind of Water: F		Depti From	$\frac{m(m/ft)}{To} \qquad \begin{array}{c} \text{Diameter} \\ (cm/in) \end{array}$	0 K	T T	# I	23 CARJ RO	AD	CO
siness Name of W Air Rock Dril	Vell Contractor and ell Contractor ling Co. Ltd.	Well Technician In	Wel	Contractor's Licence No. 1	Comments:	HARDS	BN	Side	ER	SAL)
vince		siness E-mail Address		Richmond	1/2 HP - 10 G	PM SET A	T 90	FT.		
61383821701	- Ind Ind Indexed	air-rock@ Well Technician (Last l Braham, Ryan Innician and/or Contrac	Name, F	Submitted 10 31	information package delivered Ves	kage Delivered			55	253
	een's Printer for Ontario, 200	1 K		Y Y M M D D Ministry's Copy		Y M M D	D	NOV	6 21	913

Ministry of the Environment and Climate Change	Well Tag No. (Place Sticker an			Nell Record
Measurements recorded in: 🖆 Metric 🗌 Imperial	A261077 Ta		23157 Pa	
Well Owner's Information				
First Name Last Name / Organization	"Canada Irc. Municipality; Bro isprisend	E-mail Address		Well Constructed by Well Owner
Mailing Address (Street Number/Name)	Municipality	Province Postal Coc QC J 7 4		ne No. (inc. area code) 9708899
4243 rue Marcel Lacasse Well Location	<u>Bro Ispriand</u>	<u>, 40 974</u>		
Address of Well Location (Street Number/Name)	Township	Lot	Conces	sion
100-120 Carden CG Rd County/District/Municipality	City/Town/Village		Province	Postal Code
UTM Coordinates Zone, Easting , Northing	Municipal Plan and Suble		Ontario Other	KOA LLO
NAD 8 3 1 8 4 2 3 4 4 7 50 1 5	952			
Overburden and Bedrock Materials/Abandonment Se	aling Record (see instructions on the Other Materials	back of this form) General Descripti	on	Depth (<i>m/ft</i>)
		den 52.		From To
BKY Stand	cave)	Se P		311.27
BKY grand g BKY sand g BAROCRY Sond store		Jayered	· · · · · · · · · · · · · · · · · · ·	1.22 6.1
		3		£
				1
		1		
				<u> </u>
Annular Space		Results of	Well Yield Test	ing
Depth Set at (m/ft) Type of Sealant Used	Volume Placed (m³/ft³)	After test of well yield, water was:	Draw Dow Time Water	vn Recovery
From To (Material and Type)		Other, specify	(min) (m/	· · · · · · · · · · · · · · · · · · ·
· 31 2.74 pentente	i	If pumping discontinued, give reas	n: Level	
11411 1 (-17				1
1.1 6.1 +,112' >ho		Pump intake set at <i>(m/ft)</i>	2	2
Method of Construction	Well Use	Pumping rate (I/min / GPM)	3	3
Cable Tool Diamond Public Rotary (Conventional) Jetting Domestic	Commercial Not used	Duration of pumping	4	4
Rotary (Reverse) Driving Livestock	Test Hole Monitoring Cooling & Air Conditioning	Final water level end of pumping (r	5 n/ft)	5
Boring Digging Irrigation Air percussion Industrial				10
Construction Record - Casing	Status of Well	If flowing give rate (Vmin / GPM)	15	20
Inside Open Hole OR Material Wall Dep	oth (m/ft) Uster Supply	Recommended pump depth (m/	20 t) 25	25
(cm/in) Concrete, Plastic, Steel) (cm/in) From	To Replacement Well	Recommended pump rate	30	30
5.20 PVC ,390 0	Contraction Contra	(Umin / GPM)	40	40
	Observation and/or Monitoring Hole	Well production (I/min / GPM)	50	50
	Alteration (Construction)	Disinfected?	60	60
	Abandoned, Insufficient Supply	Yes No	f Well Location	
Construction Record - Screen	pth (<i>m/ft</i>) Abandoned, Poor Water Quality	Please provide a map below follow		
Diameter (cm/in) (Plastic, Galvanized, Steel) Slot No. From	To Abandoned, other, specify			
6.03 PVC 10 3.1	Other, specify		M Ni	
Water Details	Hole Diameter	-		
(m/ft) Gas Other, specify	- From To (critin)	-		
Water found at Depth Kind of Water: Fresh Untest	111/17/2			
Water found at Depth Kind of Water: Fresh Untest	= 1.42 6.1 1.00			
(m/ft) Gas Other, specify	- I Information			
Business Name of Well Contractor	Well Contractor's Licence No			
Business Address (Street Number/Name)	Municipality	Comments:		
Province Postal Code , Business E-mail /	Address			
ON LIKISMIS WIRCord	Sest Hasail. Com	Well owner's Date Package De		Ministry Use Only
Bus.Telephone No. (inc. area code) Name of Well Technicia	n (Last Namè, First Name)		M D D 分行	^t No. Z 229576
Well Technician's Licence No. Signature of Technician and/or				MAR C 8 2019
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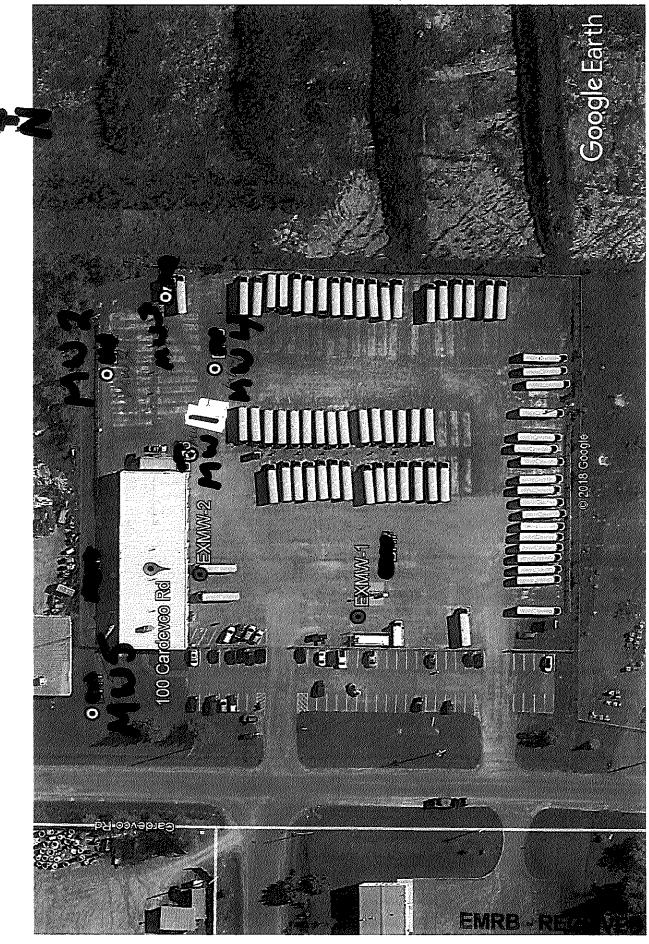
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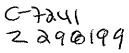
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Measuremen			-	perial	A 26	1078 T a	ag	#:A26 778 "		tario Wate Page	er Res	ources Act of
Well Owne								· 3*43	57	· · · -		*
First Name		Ļ	st Name / Org	anization		ada Inc-		E-mail Address				Constructed
		Number/Nam	e)	~~ _	N N	Aunicipality		Province Postal Code		elephone N	0. (inc.	area code)
4243 r Well Locati		arcel L	rcasse_		/ <i>k</i> ;	Beersbeiana	1	<u>Gec</u> J7111	N 44	1509	70	<u> 8 8 9 9</u>
Address of W	ell Locatio	n (Street Num	ber/Name)		T	Township		Lot		Concession		
100-120 C	Wind CA	160 Rd				Dity/Town/Village			Provinc	<u>.</u>	Postal	Code
					×.	Strank -	Ċc	arp	Onta			AILO
UTM Coordin NAD 8	ates Zone	Easting	Nort	^{hing} / / ንገ	982	Municipal Plan and Su	blot I	Number	Other			
Overburden	i and Bec	rock Materia	ils/Abandon			ord (see instructions on	the	back of this form)				
General Colo	our	Most Comm	on Material		Oth	ner Materials		General Description			Dep From	th (<i>m/ft</i>) To
GRY	- 91	nd	····	\$	and 1		(dense		(1	+ 5/
BRN GRY	36	nd		9	rave	· · · · ·		so pr		*	$\frac{\gamma}{7}$	-61
0009	27	nd sten	٤		****		_	Impered		0	6	
								······				
						· · · · · · · · · · · · · · · · · · ·						
Death Oat	-4 ((5)		Annular S	Contraction of the state of the		Volume Placed		Results of We After test of well yield, water was:	and a second second	Testing	R	ecovery
Depth Set From	at (<i>mm</i>) To		(Material and	Type)		(m³/ft³)	_	Clear and sand free			4	Water Level (m/ft)
0	-3	COACT	eserm	(shmi	5 sed		_	Other, specify If pumping discontinued, give reason:	Static	(nnn)	[11.01.17	(
5	1.72	porto.	r whe				_		1		1	
1.77	3.1	K Me!	Sand.					Pump intake set at (m/ft)	2		2	
			· · · · · · · · · · · · · · · · · · ·					Pumping rate (I/min / GPM)	3	<u> </u>	3	
Metho	NALING CONTRACTOR OF CONTRA	nstruction	🗌 🗍 Publi	c	Well Us				4		4	
Rotary (Co	nventional)		Dom Lives	estic	Municip	ai 🗌 Dewaterir	- 11	Duration of pumping hrs + min	5		5	
Boring			🗌 lπiga	tion	_	& Air Conditioning	9	Final water level end of pumping (m/ft)	10		10	
Air percuss			_ Indus	stnal r, specify				If flowing give rate (I/min / GPM)	15		15	
-		nstruction R			n (<i>m/ft</i>)	Status of Well		Recommended pump depth (m/ft)	20		20	
Inside Diameter (cm/in)	(Galvanize	e OR Material ed, Fibreglass, Plastic, Steel)	Wall Thickness (cm/in)	From	To	Replacement Wel	"	Recontinenced pump deput (mmg	25		25	
520	PVC		.340	$\overline{\mathcal{O}}$	1.52	Test Hole Recharge Well		Recommended pump rate (I/min / GPM)	30		30	
						Dewatering Well Observation and/	or	Well production (1/min / GPM)	40		40	
						Monitoring Hole Alteration			50		50	
						(Construction)		Disinfected?	60		60	
	Со	nstruction R	ecord - Scre	en		Insufficient Supply		Map of We				
Outside Diameter (cm/in)		aterial Ivanized, Steel)	Slot No.	Depi From	h (<i>m/ft)</i> To	Water Quality	r,	Please provide a map below followin	ig instr	Letions on t	ne paci	ς.
6.03	PUT		10	1,52	3.1	specify						
<u> </u>	V V -	-	1 F - 1		15/	Other, specify						
		Water Det	ails	n sa asas		Hole Diameter		In 1	162	1		
Water found	•		: Fresh]Untested	d Dep From	oth (<i>m/ft</i>) Diamet To (<i>cm/in</i>		1 / ·	i. YXX	0*		
Water found	<i>ft)</i>	j · ·	:Fresh	Unteste	i ()	· [0] 11.4.	3					
	<i>ft)</i> ⊡Gas	Other, species of the contract			101	3.17.6	Å					
	-	Other, spe										
Ruginger àt-	9467X195012768550551257	ell Contracto	or and Well T	echnici	Veral Westa Veral Ver	ition /ell Contractor's Licence						
Business Na	une of We		Graz	p	W.		110.					
Business Ad	dress (Str	eet Number/Na	ame)		M	unicipality MRTKAMM		Comments:				
Province	<u> </u>	ostal Code	Business	E-mail Ac	dress		A.I.					A description of the second second
() N Bus Telephor	ne No. (inc	area code), Na	R ame of Well Te				24	Well owner's Date Package Delivere	.			e Only 8199
196519	1400	1911						package delivered Y Y Y W M Date Work Completed	ala	ian kanaran dan	-23 108	annan an a
Well Technicia	an's Licence	No. Signature	e of Technician	and/or C	ontractor D	ate Submitted	10		46		. с. П.	2019

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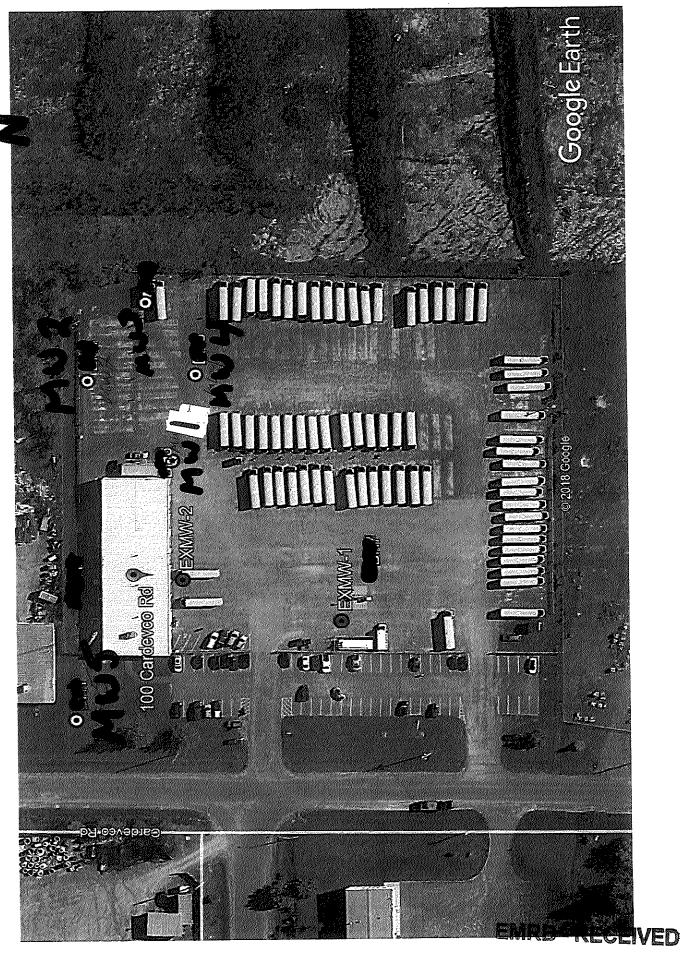


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			v	
Ministry of the Environment and Climate Change	11 Tag No. (Place Sticker an 261082 Tag	n#·A261082 ulation	-	Vell Record
Measurements recorded in: 🖌 Metric 🗆 Imperial	261082 10		-	
Well Owner's Information First Name Last Name / Organization		E-mail Address		
First Name Last Name / Organization	nada Inc.			Well Constructed by Well Owner
Mailing Address (Street Number/Name) 4243 FUE Marce/Lacasse	Brorsbriand	Province Postal Code		e No. (inc. area code)
Well Location				
Address of Well Location (Street Number/Name) 100-120 Cardevec Rd	Township	Lot	Concess	ion
County/District/Municipality	City/Town/Village	I	Province Ontario	Postal Code
UTM Coordinates Zone Easting Northing	Municipal Plan and Sublot	Arp Nurhber	Other	KOALLO
NAD 8 3 1 8 423 37 650 1 39	2 5			
Overburden and Bedrock Materials/Abandonment Sealing General Colour Most Common, Material	Other Materials	back of this form) General Description		Depth (<i>m/ft</i>) From To
BRN top soil	1	dense		0.3/
BRN top Soil BRN Sand grav GRY Sandstore	iel	soft lagered		.311.22
GRY sandstore	/	lage-ed		1.72 3.75
Annular Space		Results of W	ell Yield Testin	lg
Depth Set at (m/ft) Type of Sealant Used From To (Material and Type)	Volume Placed (m³/ft³)	After test of well yield, water was:	Draw Dowr	
0 -31 concrete		Other, specify	(min) (m/ft) Static	
.3/1.68 Sentonite		If pumping discontinued, give reason:	Level	
1.68 3.35 Litter sand		Pump intake set at (m/ft)		1
			2	2
	/ell Use	Pumping rate (I/min / GPM)	4	3
	Commercial 🗌 Not used Municipal 🗌 Dewatering	Duration of pumping hrs + min	5	5
	Test Hole Monitoring Cooling & Air Conditioning	Final water level end of pumping (m/ft		10
Air percussion		If flowing give rate (I/min / GPM)	15	15
Construction Record - Casing	Status of Well	In nowing give rate (unint Grw)	20	20
Inside Open Hole OR Material Wall Depth (m/f Diameter (Galvanized, Fibreglass, Thickness (cm/m) Concrete Plactic Steel) (cm/m) From	t) Water Supply To Replacement Well	Recommended pump depth (m/ft)	25	25
	Test Hole Recharge Well	Recommended pump rate (I/min / GPM)	30	30
Sizo PUC 3390 0 1.	Dewatering Well Observation and/or	. ,	40	40
	Monitoring Hole	Well production (I/min / GPM)	50	50
	(Construction)	Disinfected?	60	60
Construction Record - Screen	Insufficient Supply		lell Location	
Outside Material Depth (m/ Diameter (Plastic, Galvanized, Steel) Slot No. From	f) Water Quality To ☐ Abandoned, other,	Please provide a map below follow	ing instructions of	on the back.
lournh	specify			
	Other, specify			
Water Details	Hole Diameter	/.	INS	
Water found at Depth Kind of Water: Fresh Untested	Depth (<i>m/ft</i>) Diameter From To (<i>cm/in</i>)	R		
(<i>m/ft</i>) Gas Other, specify Water found at Depth Kind of Water: Fresh Untested	0 2.13 11.43			
(m/ft) Gas Other, specify	.13 3.35 7.62			
(<i>m/ft</i>) Gas Other, specify				
Well Contractor and Well Technician In				
Business Name of Well Contractor Strate Arithly GCOVP	Well Contractor's Licence No.			
Business Address (Street Number/Name)	Municipality Markham	Comments:		
Province Postal Code Business E-mail Address	3/ J -1		active of a state of the state	n fan fan fan skriften i de skriften fan skriften fan skriften fan skriften fan skriften fan skriften fan skrif
ON F3RBUR wrzcords@5 Bus. Telephone No. (inc. area code) Name of Well Technician (Last		Well owner's Date Package Delive	Audit N	inistry Use Only ° Z302863
905990791		delivered V V V M M Date Work Complete		
Well Technician's Licence No. Signature of Technician and/or Contra	Ctor Date Submitted	No 246904		MAR C 8 2019

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C-7241 2302863 MAR 082019



Map: Well records

This map allows you to search and view well record information from reported wells in Ontario.

Full dataset is available in the Open Data catalogue (https://data.ontario.ca/dataset/well-records).

Go Back to Map

Well ID

Well ID Number: 7344968 Well Audit Number: *Z317325* Well Tag Number: *A274753 This table contains information from the original well record and any subsequent updates.*

Well Location

Address of Well Location	128 Cardevco Rd
Township	HUNTLEY TOWNSHIP
Lot	
Concession	
County/District/Municipality	OTTAWA-CARLETON
City/Town/Village	Carp
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 18 Easting: 423430.00 Northing: 5015991.00
Municipal Plan and Sublot Number	

Other	

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
GREY	GRVL	STNS	LOOS	0 m	.31 m
BRWN	SAND	STNS	SOFT	.31 m	.91 m
GREY	LMSN	SNDS	LYRD	.91 m	4.57 m

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
0 m	.31 m	CONCRETE Monument	
.31 m	1.22 m	BENTONITE	
1.22 m	4.57 m	FILTER SAND	

Method of Construction & Well Use

Method of Construction	Well Use
Air Percussion	
	Monitoring and Test Hole

Status of Well

Monitoring and Test Hole

Construction Record - Casing

InsideOpen Hole or materialDepthDepthDiameterFromTo
· · · ·

4.03 cm	PLASTIC	0 m	1.52 m

Construction Record - Screen

Outside Diameter	Material	Depth From	Depth To
4.82 cm	PLASTIC	1.52 m	4.57 m

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 7241

Results of Well Yield Testing

After test of well yield, water was	
If pumping discontinued, give reason	
Pump intake set at	
Pumping Rate	
Duration of Pumping	
Final water level	
If flowing give rate	
Recommended pump depth	
Recommended pump rate	
Well Production	
Disinfected?	

Draw Down & Recovery

Draw Down Time(min)	Draw Down Water level	Recovery Time(min)	Recovery Water level
SWL			
1		1	
2		2	
3		3	
4		4	
5		5	
10		10	
15		15	
20		20	
25		25	
30		30	
40		40	
45		45	
50		50	
60		60	

Water Details

Water Found at Depth	Kind

Hole Diameter

Depth From	Depth To	Diameter
	4.57 m	7.62 cm
0 m		11.43 cm

Audit Number: Z317325

Date Well Completed: August 28, 2019

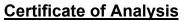
Date Well Record Received by MOE: October 09, 2019

Related

How to use a Ministry of the Environment map (https://www.ontario.ca/page/how-use-ministry-environment-map#wells)

Technical documentation: Metadata record (https://data.ontario.ca/dataset/well-records/resource/3031344e-e3f2-48d5-888c-c1deadfd2f77)

Updated: October 18, 2021 Published: March 20, 2014



Environment Testing

Client:	Paterson Group		
	9 Auriga Dr		
	Nepean, ON		
	K2E 7T9		
Attention:	Mr. Alex Schopf		
PO#:	55854		
Invoice to:	Paterson Group		

🛟 eurofins

Report Number:	1986671
Date Submitted:	2022-09-23
Date Reported:	2022-09-29
Project:	PH4600
COC #:	900644

Group	Analyte	MRL	Units	Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D. Guideline	1652758 Water 2022-09-22 GW1	1652759 Water 2022-09-22 GW2
Anions	CI	1	mg/L	AO 250	185	191
	F	0.10	mg/L	MAC 1.5	0.41	0.42
	N-NO2	0.10	mg/L	MAC 1.0	<0.10	<0.10
	N-NO3	0.10	mg/L	MAC 10.0	<0.10	<0.10
	SO4	1	mg/L	AO 500	75	75
General Chemistry	Alkalinity as CaCO3	5	mg/L	OG 30-500	287	289
	Colour (Apparent)	2	TCU	AO 5	90*	86*
	Conductivity	5	uS/cm		1160	1180
	DOC	0.5	mg/L	AO 5	3.5	3.2
	рН	1.00		6.5-8.5	8.15	8.15
	Phenols	0.001	mg/L		<0.001	<0.001
	S2-	0.01	mg/L	AO 0.05	0.02	0.02
	TDS (COND - CALC)	1	mg/L	AO 500	754*	767*
	Turbidity	0.1	NTU	AO 5	13.2*	11.6*
Hardness	Hardness as CaCO3	1	mg/L	OG 80-100	457*	462*
Hydrocarbons	F1 (C6-C10)	20	ug/L		<20	<20
	F1-BTEX (C6-C10)	20	ug/L		<20	<20
	F2 (C10-C16)	20	ug/L		<20	<20
	F3 (C16-C34)	50	ug/L		<50	<50
	F4 (C34-C50)	50	ug/L		<50	<50
Indices/Calc	Ion Balance	0.01			1.01	1.01
Metals	Ag	0.0001	mg/L		<0.0001	<0.0001
	Al	0.01	mg/L	OG 0.1	<0.01	<0.01
	As	0.001	mg/L	IMAC 0.01	<0.001	<0.001
	В	0.01	mg/L	IMAC 5.0	0.02	0.02

Guideline = ODWSOG

* = Guideline Exceedence

Results relate only to the parameters tested on the samples submitted. Methods references and/or additional QA/QC information available on request.

Certificate of Analysis

Environment Testing

Client:	Paterson Group	
	9 Auriga Dr	
	Nepean, ON	
	K2E 7T9	
Attention:	Mr. Alex Schopf	
PO#:	55854	
Invoice to:	Paterson Group	

1986671
2022-09-23
2022-09-29
PH4600
900644

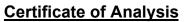
				Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.	1652758 Water 2022-09-22 GW1	1652759 Water 2022-09-22 GW2
Group	Analyte	MRL	Units	Guideline		
Metals	Ba	0.01	mg/L	MAC 1.0	0.58	0.59
	Be	0.0005	mg/L		<0.0005	< 0.0005
	Са	1	mg/L		127	129
	Cd	0.0001	mg/L	MAC 0.005	<0.0001	<0.0001
	Со	0.0002	mg/L		<0.0002	< 0.0002
	Cr	0.001	mg/L	MAC 0.05	<0.001	< 0.001
	Cu	0.001	mg/L	AO 1	<0.001	<0.001
	Fe	0.03	mg/L	AO 0.3	1.34*	1.21*
	Hg	0.0001	mg/L	MAC 0.001	<0.0001	<0.0001
	ĸ	1	mg/L		3	3
	Mg	1	mg/L		34	34
	Mn	0.01	mg/L	AO 0.05	0.13*	0.13*
	Мо	0.005	mg/L		<0.005	< 0.005
	Na	1	mg/L	AO 200	79	82
	Ni	0.005	mg/L		<0.005	< 0.005
	Pb	0.001	mg/L	MAC 0.010	<0.001	<0.001
	Sb	0.0005	mg/L	IMAC 0.006	<0.0005	<0.0005
	Se	0.001	mg/L	MAC 0.05	<0.001	<0.001
	Sr	0.001	mg/L		0.720	0.724
	TI	0.0001	mg/L		<0.0001	<0.0001
	U	0.001	mg/L	MAC 0.02	<0.001	<0.001
	V	0.001	mg/L		<0.001	<0.001
	Zn	0.01	mg/L	AO 5	<0.01	<0.01
Microbiology	Escherichia Coli	0	ct/100mL	MAC 0	0	0
	Total Coliforms	0	ct/100mL	MAC 0	0	0

Guideline = ODWSOG

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* = Guideline Exceedence

Results relate only to the parameters tested on the samples submitted. Methods references and/or additional QA/QC information available on request.



Environment Testing

Client:	Paterson Group		
	9 Auriga Dr		
	Nepean, ON		
	K2E 7T9		
Attention:	Mr. Alex Schopf		
PO#:	55854		
Invoice to:	Paterson Group		

🛟 eurofins

Report Number:	1986671
Date Submitted:	2022-09-23
Date Reported:	2022-09-29
Project:	PH4600
COC #:	900644

				Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.	1652758 Water 2022-09-22 GW1	1652759 Water 2022-09-22 GW2
Group	Analyte	MRL	Units	Guideline		
Nutrients	N-NH3	0.020	mg/L		0.140	0.130
	Total Kjeldahl Nitrogen	0.100	mg/L		0.358	0.188
PHC Surrogate	Alpha-androstrane	0	%		101	103
Subcontract	Tannin & Lignin	0.1	mg/L		1.3	1.2
VOCs Surrogates	1,2-dichloroethane-d4	0	%		106	112
	4-bromofluorobenzene	0	%		82	82
	Toluene-d8	0	%		96	93
Volatiles	1,1,1,2-tetrachloroethane	0.5	ug/L		<0.5	<0.5
	1,1,1-trichloroethane	0.4	ug/L		<0.4	<0.4
	1,1,2,2-tetrachloroethane	0.5	ug/L		<0.5	<0.5
	1,1,2-trichloroethane	0.4	ug/L		<0.4	<0.4
	1,1-dichloroethane	0.4	ug/L		<0.4	<0.4
	1,1-dichloroethylene	0.5	ug/L	MAC 14	<0.5	<0.5
	1,2-dichlorobenzene	0.4	ug/L	MAC 200	<0.4	<0.4
	1,2-dichloroethane	0.5	ug/L	IMAC 5	<0.5	<0.5
	1,2-dichloropropane	0.5	ug/L		<0.5	<0.5
	1,3,5-trimethylbenzene	0.3	ug/L		<0.3	<0.3
	1,3-dichlorobenzene	0.4	ug/L		<0.4	<0.4
	1,3-Dichloropropylene (cis+trans)	0.05	ug/g		<0.05	<0.05
	1,4-dichlorobenzene	0.4	ug/L	MAC 5	<0.4	<0.4
	Acetone	30	ug/L		<30	<30
	Benzene	0.5	ug/L	MAC 1	<0.5	<0.5
	Bromodichloromethane	0.3	ug/L		<0.3	<0.3
	Bromoform	0.4	ug/L		<0.4	<0.4
-	Bromomethane	0.5	ug/L		<0.5	<0.5

Guideline = ODWSOG

* = Guideline Exceedence

Results relate only to the parameters tested on the samples submitted. Methods references and/or additional QA/QC information available on request.

Certificate of Analysis

Environment Testing

Client:	Paterson Group		
	9 Auriga Dr		
	Nepean, ON		
	K2E 7T9		
Attention:	Mr. Alex Schopf		
PO#:	55854		
Invoice to:	Paterson Group		

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Report Number:	1986671
Date Submitted:	2022-09-23
Date Reported:	2022-09-29
Project:	PH4600
COC #:	900644

				Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.	1652758 Water 2022-09-22 GW1	1652759 Water 2022-09-22 GW2
Group	Analyte	MRL	Units	Guideline		
Volatiles	c-1,2-Dichloroethylene	0.4	ug/L		<0.4	<0.4
	c-1,3-Dichloropropylene	0.5	ug/L		<0.5	<0.5
	Carbon Tetrachloride	0.2	ug/L	MAC 2	<0.2	<0.2
	Chloroethane	0.5	ug/L		<0.5	<0.5
	Chloroform	0.5	ug/L		<0.5	<0.5
	Dibromochloromethane	0.3	ug/L		<0.3	<0.3
	Dichlorodifluoromethane	0.5	ug/L		<0.5	<0.5
	Dichloromethane	4.0	ug/L	MAC 50	<4.0	<4.0
	Ethylbenzene	0.5	ug/L	MAC 140	<0.5	<0.5
	Ethylene Dibromide	0.2	ug/L		<0.2	<0.2
	Hexane	5	ug/L		<5	<5
	m/p-xylene	0.4	ug/L		<0.4	<0.4
	Methyl Ethyl Ketone (MEK)	10	ug/L		<10	<10
	Methyl Isobutyl Ketone (MIBK)	10	ug/L		<10	<10
	Methyl Tert Butyl Ether (MTBE)	2	ug/L	AO 15	<2	<2
	Monochlorobenzene	0.5	ug/L	MAC 80	<0.5	<0.5
	o-xylene	0.4	ug/L		<0.4	<0.4
	Styrene	0.5	ug/L		<0.5	<0.5
	t-1,2-Dichloroethylene	0.4	ug/L		<0.4	<0.4
	t-1,3-Dichloropropylene	0.5	ug/L		<0.5	<0.5
	Tetrachloroethylene	0.3	ug/L	MAC 10	<0.3	<0.3
	Toluene	0.4	ug/L	MAC 60	<0.4	<0.4
	Trichloroethylene	0.3	ug/L	MAC 5	<0.3	<0.3
	Trichlorofluoromethane	0.5	ug/L		<0.5	<0.5
	Vinyl Chloride	0.2	ug/L	MAC 1	<0.2	<0.2

Guideline = ODWSOG

* = Guideline Exceedence

Results relate only to the parameters tested on the samples submitted. Methods references and/or additional QA/QC information available on request.

Certificate of Analysis

Environment Testing

Client:	Paterson Group	Report Number:	1986671
	9 Auriga Dr	Date Submitted:	2022-09-23
	Nepean, ON	Date Reported:	2022-09-29
	K2E 7T9	Project:	PH4600
Attention:	Mr. Alex Schopf	COC #:	900644
PO#:	55854		
Invoice to:	Paterson Group		

Group	Analyte	MRL	Units	Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D. Guideline	1652758 Water 2022-09-22 GW1	1652759 Water 2022-09-22 GW2
Volatiles	Xylene; total	0.5	ug/L	MAC 90	<0.5	<0.5

Guideline = ODWSOG

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* = Guideline Exceedence

Results relate only to the parameters tested on the samples submitted. Methods references and/or additional QA/QC information available on request.

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SOIL PROFILE AND TEST DATA

154 Colonnade Road South, Ottawa, Ontario K2E 7J5

Geotechnical Investigation Prop. Industrial Redevelopment - 135 Cardevco Road <u>__</u> Ontario

20

▲ Undisturbed

40

60

Shear Strength (kPa)

80

 \triangle Remoulded

100

RE	MA	RK	S

						arp, Onta					
DATUM Geodetic									FILE I	NO. PG6018	3
REMARKS				_			40.000		HOLE	^{NO.} TP 1-21	
BORINGS BY Backhoe				D	ATE	Novembe	er 12, 202	21			
SOIL DESCRIPTION	PLOT		SAN	IPLE	1	DEPTH	ELEV.			Blows/0.3m Dia. Cone	ter
	STRATA I	ТҮРЕ	NUMBER	° ≈ © © ©	VALUE r RQD	(m)	(m)		Vater C	Content %	Piezometer Construction
GROUND SURFACE	ST	H	N N	REC	N O H O			20	40	60 80	ة ۲
Asphaltic concrete 0.09			4			- 0-	118.65				-
FILL: Crushed stone 0.10		=G	1								
FILL: Brown silty sand with crushed stone, gravel, occasional cobbles		G	2								
0.60 0.70											
Compact to dense, brown SILTY SAND		∑ G	3			1-	-117.65				
1.80											-
Bottom of thickened concrete slab encountered at 0.56m depth.											
Underside of 100mm dia. PVC drainage pipe at 0.56m depth.											
(TP dry upon completion)											

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SOIL PROFILE AND TEST DATA

154 Colonnade Road South, Ottawa, Ontario K2E 7J5

Geotechnical Investigation Prop. Industrial Redevelopment - 135 Cardevco Road Carp, Ontario

DATUM Geodetic									FILE	NO. PG6018	
REMARKS									HOLE	^{E NO.} TP 2-21	
BORINGS BY Backhoe				D	ATE	Novembe	er 12, 202	21		16 2-21	
SOIL DESCRIPTION	PLOT		SAN	/IPLE		DEPTH (m)	ELEV. (m)			Blows/0.3m Dia. Cone	eter uction
	STRATA	ТҮРЕ	NUMBER	% RECOVERY	N VALUE or RQD			• v	Vater (Content %	Piezometer Construction
GROUND SURFACE	03		ч	RE	z ^o	0-	118.67	20	40	60 80	
0.10						0	110.07				
FILL: Brown silty sand with crushed stone, gravel and cobbles, trace asphalt 0.60		X G	1								
Rigid insulation 0.70											
FILL: Crushed stone		G	2								
<u>1.0</u> 0						1-	-117.67				-
Compact to dense, brown SILTY SAND 2.10		∑ G	3			2-	-116.67				
End of Test Pit											
Bottom of thickened concrete slab encountered at 0.56m depth.											
Underside of 100mm dia. PVC drainage pipe at 0.56m depth.											
(TP dry upon completion)											
								20 Shea ▲ Undist		60 80 1 ength (kPa) △ Remoulded	000

SOIL PROFILE AND TEST DATA

154 Colonnade Road South, Ottawa, Ontario K2E 7J5

Geotechnical Investigation Prop. Industrial Redevelopment - 135 Cardevco Road Carp, Ontario

FILE NO.

RE	MA	RK	S

DATUM

Geodetic

											-	PG6018	;
REMARKS										HOL	E NO	TP 3-21	
BORINGS BY Backhoe				D	DATE	Novembe	er 12, 202	1				15 2-21	
SOIL DESCRIPTION	PLOT		SAN	IPLE	1	DEPTH (m)	ELEV. (m)	P				ows/0.3m . Cone	ster
		ТҮРЕ	NUMBER	°% RECOVERY	N VALUE or RQD				0	Water	Con	tent %	Piezometer Construction
GROUND SURFACE	STRATA	H	DN I	REC	N OF				20	40	60		ĒŎ
TOPSOIL 0.12						0-	-118.55		1				
FILL: Brown silty sand with crushed stone, gravel and cobbles, trace asphalt		G	1										
Rigid insulation 0.70													
						1-	-117.55						
Compact to dense, brown SILTY SAND		X G	2										
1.60							-		-				-
Bottom of thickened concrete slab encountered at 0.56m depth.													
Underside of 100mm dia. PVC drainage pipe at 0.56m depth.													
(TP dry upon completion)													
													_
								•		40 ar Str sturbed		0 80 1 h (kPa) Remoulded	100

SOIL PROFILE AND TEST DATA

154 Colonnade Road South, Ottawa, Ontario K2E 7J5

Geotechnical Investigation Prop. Industrial Redevelopment - 135 Cardevco Road Carp, Ontario

FILE NO.

PG6018

RF	MΔ	RK	s

DATUM

FM	ΔR	KS		

Geodetic

REMARKS									HOLE N	^{ю.} TP 4-21	
BORINGS BY Backhoe		-		D	ATE	Novembe	r 12, 202	21		15 4-21	1
SOIL DESCRIPTION	PLOT		SAN	IPLE		DEPTH (m)	ELEV. (m)			lows/0.3m ia. Cone	eter ction
	STRATA	ТҮРЕ	NUMBER	% RECOVERY	N VALUE or RQD		(11)	• V	Vater Co	ontent %	Piezometer Construction
GROUND SURFACE	LS.		NC	REC	Z O			20	40	60 80	L 0
)5 📈					0-	-118.77				
FILL: Crushed stone and gravel 0.2	20 💥	G	1								
FILL: Brown silty sand with gravel	40	G	2								
		· · ·									
		•									
		·.									
						1	117 77				
						1-	-117.77				1
		•.									
		G	3								
		: -]
		•									
Compact to dense, brown SILTY		G	4								
SAND											
		•.				2-	-116.77				Ţ
		•									
		•									
		·									
		•									
	· · · .	:									
		•									
		•									
		•				3-	-115.77				-
		•									
		·.									
2.4	-	•									
3.9		·									1
(Groundwater infiltration at 2.0m											
depth)											
								20 She	40 ar Stren	60 80 1 gth (kPa)	⊣ 00
								▲ Undis		\triangle Remoulded	

SOIL PROFILE AND TEST DATA

154 Colonnade Road South, Ottawa, Ontario K2E 7J5

Geodetic

DATUM

Geotechnical Investigation Prop. Industrial Redevelopment - 135 Cardevco Road Carp, Ontario

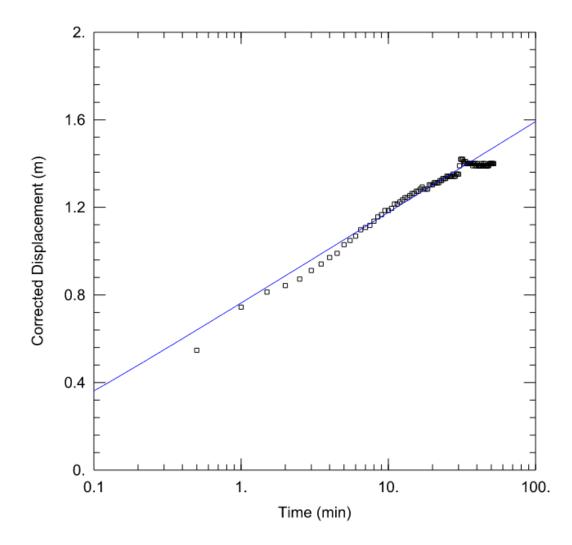
FILE NO.

DATUM Geodetic										F	ILE N	o. F	PG60 ⁻	18
REMARKS										۲	IOLE	NO. T	P 5-2	·1
BORINGS BY Backhoe					DATE	Novembe	er 12, 202							•
SOIL DESCRIPTION	PLOT		SAN	IPLE		DEPTH	ELEV.	P				Blows Dia. Co	/0.3m one	ter
	STRATA	ТҮРЕ	NUMBER	* RECOVERY	VALUE r rod	(m)	(m)		0	Wat	er C	onten	t %	Piezometer
GROUND SURFACE	STI	E E	NUN	RECO	N OF V				20		10	60	80	j <u>e</u> o
Asphaltic concrete 0.0 FILL: Crushed stone 0.1	5		4			- 0-	-118.31		Ť					
FILL: Crushed stone 0.1	5	G	1											
		1												
]												
		í G	2											
		A G												
GLACIAL TILL: Very dense, brown silty sand with gravel, cobbles and						1-	-117.31							
silty sand with gravel, cobbles and boulders		1												
		1												
		2												
		1												₽
		1				2-	116.31		+	<u>:</u> :				
2.2	o[^^^^													
End of Test Pit		Γ												
Practical refusal to excavation at 2.20m depth														
(Groundwater infiltration at 1.9m														
depth)														
										ear S		60 Igth (k		100
			1	1				▲	Unal	sturb	eu	⊥ Her	noulded	1

PH4600-LET.01

Pumping Test Analysis Report

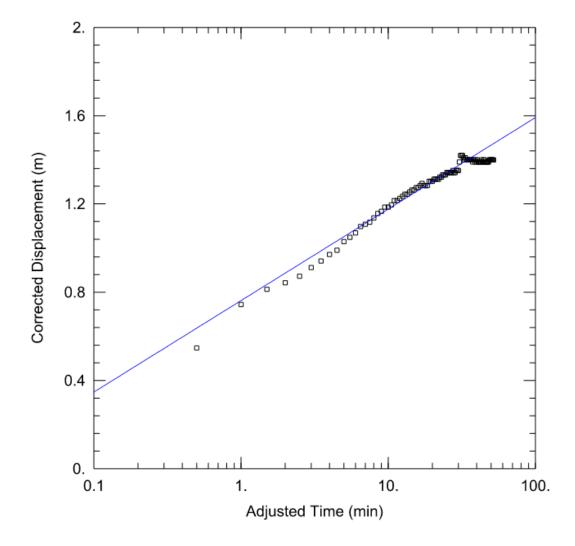
File No.	PH4600	Well ID:	TW1
Date:	Thursday, September 27	Solution Method:	Theis
Client:	Premier Bus Lines. Ltd	Transmissitivity (m2/day):	17.17
Site Address:	135 Cardevco Rd, Carp	Discharge Rate (L/min)	27
Project:	Site Plan Control Application	Analysis performed by:	AS



PH4600-LET.01

Pumping Test Analysis Report

File No.	PH4600	Well ID:	TW1
Date:	Thursday, September 27	Solution Method:	Cooper-Jacob
Client:	Premier Bus Lines. Ltd	Transmissitivity (m2/day):	17.17
Site Address:	135 Cardevco Rd, Carp	Discharge Rate (L/min)	27
Project:	Site Plan Control Application	Analysis performed by:	AS



Pumping Test Analysis Report

File No.	PH4600
Date:	Thursday, September 27
Client:	Premier Bus Lines. Ltd
Site Address:	135 Cardevco Rd, Carp
Project:	Site Plan Control Application

Summary Table:		
Solution Method:	Well ID:	Transmissitivity (m2/day):
Theis	TW1	17.17
Cooper-Jacob	TW1	17.17
Average:		17.17

patersongroup 135 Cardevco, Carp, ON

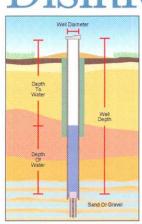
PREDICTIVE NITRATE I	MPACT	ASSESS	SEMENT
(Completed using the site	specific	sewage sy	vstem)
Infiltration Factors			
Topography		0.20	
Soil		0.40	
Cover		0.10	
Total		0.70	
Site Characteristics			
Area of Site :		2024	m²
Total of roof areas:		277	m²
Total area of paved driveway areas:		667	m²
Roof + paved driveway areas		944	m²
Impervious Area		944	m²
Percent Impervious Area =		47	%
Infiltration Area =		1080	m²
Septic Effluent			
Concentration of Effluent (Cs) =		18.44	mg/L
Daily Sewage Flow (Qs)=		0.876	m ³
See Notes below.			
Infiltration Calculation			
Nitrate concentration in precipitation $(C_i) =$		0	mg/L
Surplus Water (Environment Canada)		379	mm/yr
Factored Water Surplus =		265	mm/yr
Infiltration % due to stormwater management measures		-	%
Infiltration rate from stormwater management measures =		0	mm/yr
Infiltration Flow Entering the System $(Q_i) =$		1	m³/day
Mass Balance Model (MOEE, 1995)			
$C_{T} = (Q_{b}C_{b}+Q_{e}C_{e}+Q_{i}C_{i})/(Q_{b}+Q_{e}+Q_{i})$	= Cumulative	Nitrate Concentratio	
Q_b = flow entering the system across the upgradient area		0	m³/day
C _b = background nitrate concentration		0	mg/L
Q_e = flow entering the system from the septic drainfield		0.876	m³/day
C_e = concentration of nitrates in the septic effluent		18.444	mg/L
Q _i = flow entering the system from infiltration		1	m³/day
C _i = Concentration of nitrates in the infiltrate		0	mg/L
	C _T =	9.73	mg/L
Notes: Site characteristic values were measured as approximat volume was calculted by Paterson Group.	e values from t	the available site pla	an. Daily Sewage Flow

PH4600

135 Cardevco Road PH4600

TW1	inputs				
pН	8.15	А	0.19		
TDS Hardness	767 462	B C	2.37 2.26		
Alkalinity	289	D	2.20		
Temp.	10.6				
		pHs =	7.133434026		
Lande	lier Saturation Index (LS	SI) Calculation	(Langelier, 1936)		
Lange	nel Saturation index (EC	b) Galculation	(Langeller, 1936)		
	LSI = pH - pHs A = (Log10 [TDS] - 1) / 10				
	pHs = (9.3 + A + B) - (C + D)	B = -13.12 x Log10 (oC + 273) + 34.55			
	Where:		0 [Ca2+ as CaCO3] - 0.4		
		D = Log10 [alkalinity as CaCO3]			
	1	LSI =	1.0		
LSI	Effect				
0.5 to 2	Water is super saturated and tends to precipitate a scale layer of calcium carbonate (scale forming but non-corrosive)				
0 to 0.5	Water is super saturated and tends to precipitate a scale layer of calcium carbonate (slightly scale forming and corrosive).				
0	Water is saturated (in equilibrium) with calcium carbonate. A scale layer of calcium carbonate is neither precipitated nor dissolved.				
0 to -0.5	Water is under saturated and tends to dissolve solid calcium carbonate (slightly corrosivebut non-scale forming).				
	Water is under saturated and tends to dissolve solid calcium carbonate (seriously corrosive).				

Disinfection Instruction Sheet



If your drinking water continues to test positive on repeated submissions, consult your local health unit, which can help you interpret the results of your tests and provide you with advice on what measures you can take to safeguard your drinking water.

The first step in identifying the reason for repeated adverse water quality is to conduct a visual inspection of your well. Start with a close look at your well. The area around it should be

clear of any potential contaminant sources, such as pets, lawn care products, and gardens. Once you're satisfied that the area around your well is okay, take a good, close look at the well itself. If you have an older well, make sure that the cap and the sealant around the well casing isn't cracked or damaged. If it is, you need to fix or replace it right away. If the source of the problem can't be detected, consult a licensed well contractor right away to identify the source of the problem and eliminate it. You can save yourself a lot of money by doing this instead of rushing out to buy a home treatment device that may be expensive to install, operate, and maintain. And it may not eliminate the source of your trouble. (If you have a cistern, please talk to your public health unit about disinfection requirements.)

1. Measure the diameter of the well.

2. Measure the well depth and the static or resting water level, then calculate the depth of water in the well.

3. Using the table on this sheet, measure out the amount of bleach needed. (The table gives the volume of bleach needed for different well sizes.) Then, pour the mixture into your well.

4. If possible, mix the water in the well. This can be accomplished by attaching a hose to a tap, running water from the well, through the hose and back into the well.

5. After adding chlorine to the well, remove or bypass any carbon filters that are in the system for water treatment. If you don't, these filters will remove the chlorine from the water, and any pipes beyond the filter will not get disinfected. Replace with new filters after chlorination to avoid reintroducing bacteria into the system.

6. Run water at every faucet in the house (and barn, if you have one) until a strong chlorine odour is detected. Be aware that your nose may lose its ability to detect chlorine.

7. If there is no chlorine smell or it is very weak, add more bleach to the well and repeat Step 6 above.

8. Drain the water heater and fill with chlorinated water.

9. Backflush the water softener and all water filters (except carbon filters).

10. Let the chlorinated water stand in the system for at least 12 hours.

11. Clear chlorine from the well by running an outside hose to the ground surface. Then, run clear water through the faucets until the water no longer smells of chlorine.

12. Avoid putting too much chlorine into the septic system because the bacteria needed for septic decomposition may be killed.

13. Do not drink the water without boiling it until test results show the water is safe to drink.

Volume of Bleach to Add for Every 3 Metres (10 Feet) of Water in the Well*					
Casing Di	Volume of Unscented Bleach (5.25% solution)				
Millimetres	Inches	Millilitres			
50	2	6			
100	4	30			
150	6	60			
200	8	100			
250	10	200			
300	12	250			
400	16	400			
500	20	650			
600	24	900			
900	36	2000 (2 litres)			
1200	48	3600 (3.6 litres)			

For example: If you have 6 metres (20 feet) of water in your well and it has a casing diameter of 100 mm or 4 inches, you would add 60 mm or 2 fluid ounces of bleach.

* For questions or more information on how to disinfect your well, contact your local health unit.

For more information

Ontario Government Ministry Abbreviations

Ministry of Health and Long-Term Care MOHLTC (also MOH)

Ministry of the Environment MOE (also MOEE)

Ontario Ministry of Agriculture and Food OMAF (also OMAFRA)

Ontario Government Information Lines

MOE Public Information Centre: 1-800-565-4923

MOE Water Well Records: 1-888-396-9355

MOHLTC INFOline: 1-800-268-1154

OMAF Agricultural Information Contact Centre: 1-877-424-1300

Ontario Government Web Sites

MOE: www.ene.gov.on.ca

MOHLTC: www.health.gov.on.ca

OMAF: www.gov.on.ca/omaf

🕅 Ontario

Publications available on-line

Health Canada: www.hc-sc.gc.ca

- A Guide to Well Water Treatment and Maintenance;
- Water treatment devices for disinfection of drinking water.

MOHLTC: www.health.gov.on.ca

- How to use water safely during a "Boil Water Advisory";
- E. coli Bacteria;
- List of Public Health Units in Ontario.

OMAF: www.gov.on.ca/omaf

- Assessing the Potential for Ground Water Contamination on Your Farm, Publication 97-017;
- Best Management Practices: Water Wells, OMAFRA and Agriculture and Agri-Food Canada, 2003 (to order).

MOE: www.ene.gov.on.ca

- Important Facts About Water Well Construction, Publication 3788;
- Water Wells and Groundwater Supplies: The Protection of Water Quality in Bored and Dug Wells, Information Sheet PIB 601b;
- Water Wells and Groundwater Supplies: The Protection of Water Quality in Drilled Wells, Information Sheet PIB 602b.

WASTEWATER TECHNOLOGY

NSF/ANSI Standard 245 - *Wastewater Treatment Systems – Nitrogen Reduction*

Final Report:

Premier Tech Aqua Ecoflo Coco Filter ECDn Model Series 15/03/055/0030



NSF International 789 N. Dixboro Road PO Box 130140 Ann Arbor, Michigan 48113-0140 USA Evaluation Report: Ecoflo Coco Filter ECDn Model Series Wastewater Treatment System

Under the provisions of NSF/ANSI Standard 245 Wastewater Treatment Systems – Nitrogen Reduction

January 2016

EXECUTIVE SUMMARY

Testing of the Ecoflo Coco Filter ECDn Model Series was conducted under the provisions of NSF/ANSI Standard 245 for Residential Wastewater Treatment Systems (April 2013 revision). NSF/ANSI Standard 245 was developed by the NSF Joint Committee on Wastewater Technology.

The performance evaluation was conducted at the NSF Wastewater Technology Testing Facility located in Waco, Texas, using wastewater diverted from the Waco municipal wastewater collection system, which serves predominantly residential development. The evaluation consisted of sixteen weeks of dosing at design flow, seven and one half weeks of stress testing and an additional two and one half weeks of dosing at design flow. The stress weeks were repeated due to sampling error and the test was extended for 35 weeks. Sampling started in the spring and continued through summer and fall, covering a range of operating temperatures.

Over the course of the evaluation, the average influent Total Nitrogen was 40.4 mg/L, ranging between 20.9 and 77.4 mg/L. The Ecoflo Coco Filter ECDn Model Series produced an average effluent Total Nitrogen of 18.6 mg/L, which resulted in a 53.89% reduction in the influent Total Nitrogen. The Ecoflo Coco Filter ECDn Model Series produced an effluent that successfully met the performance requirements established by NSF/ANSI Standard 245.

The Ecoflo Coco Filter ECDn Model Series produced an effluent that successfully met the performance requirements established by NSF/ANSI Standard 40 for Class I effluent:

The maximum 7-day arithmetic mean was 13 mg/L for CBOD₅ and 9 mg/L for total suspended solids, both below the allowed maximums of 40 and 45 mg/L, respectively. The maximum 30-day arithmetic mean was 5 mg/L for CBOD₅ and 5 mg/L for total suspended solids, both below the allowed maximums of 25 mg/L and 30 mg/L, respectively.

The effluent pH during the entire evaluation ranged between 6.6 and 7.3, within the required range of 6.0 to 9.0. The Ecoflo Coco Filter ECDn Model Series met the requirements for noise levels (less than 60 dbA at a distance of 20 feet), color, threshold odor, oily film and foam.

PREFACE

Performance evaluation of nitrogen reduction for residential wastewater treatment systems is achieved within the provisions of NSF/ANSI Standard 245: Wastewater Treatment Systems – Nitrogen Reduction (April 2013), prepared by the NSF Joint Committee on Wastewater Technology and adopted by the NSF Board of Trustees.

Conformance with the Standard is recognized by issuance of the NSF Mark. This is not to be construed as an approval of the equipment, but a certification of the data provided by the test and an indication of compliance with the requirements expressed in the Standard.

Systems conforming to Standard 245 are classified as having met the requirements of the Standard. Permission to use the NSF Mark is granted only after the equipment has been tested and found to perform satisfactorily, and all other requirements of the Standard have been satisfied. Continued use of the Mark is dependent upon evidence of compliance with the Standard and NSF General and Program Specific Policies, as determined by periodic reinspection of the equipment at the factory, distributors and reports from the field.

NSF Standard 245 requires the testing laboratory to provide the manufacturer of a residential wastewater treatment system a report including significant data and appropriate commentary relative to the performance evaluation of the plant. NSF policy specifies provision of performance evaluation reports to appropriate state regulatory agencies at publication. Subsequent direct distribution of the report by NSF is made only at the specific request of or by permission of the manufacturer.

The following report contains results of the entire testing program, a description of the plant, its operation and key process control equipment, and a narrative summary of the test program, including test location, procedures and significant occurrences. The plant represented herein reflects the equipment authorized to bear the NSF Mark.

CERTIFICATION

NSF International has determined by performance evaluation under the provisions of NSF/ANSI Standard 245 (revised April 2013) that the Model Number Ecoflo Coco Filter ECDn Model Series manufactured by Premier Tech Aqua has fulfilled the requirements of NSF/ANSI Standard 245. The Ecoflo Coco Filter ECDn Model Series has therefore been authorized to bear the NSF Mark so long as Manufacture continues to meet the requirements of Standard 245 and NSF General and Program Specific Policies.

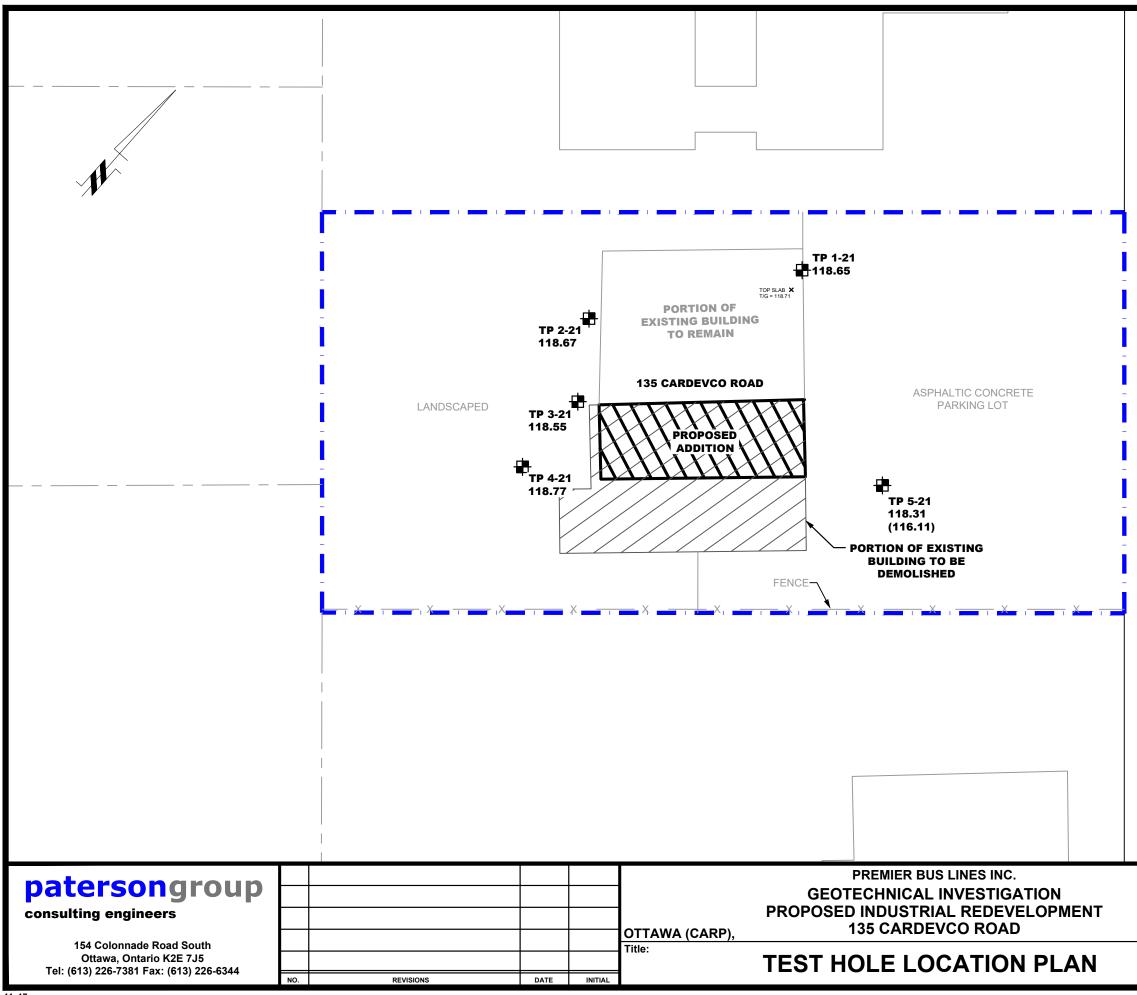
General performance evaluation and stress tests were performed at the Wastewater Technology Site located at the NSF Wastewater Technology Testing Facility located in Waco, Texas. The raw wastewater used in the test was residential wastewater. The characteristics of the wastewater during the test are included in the tabulated data of this report.

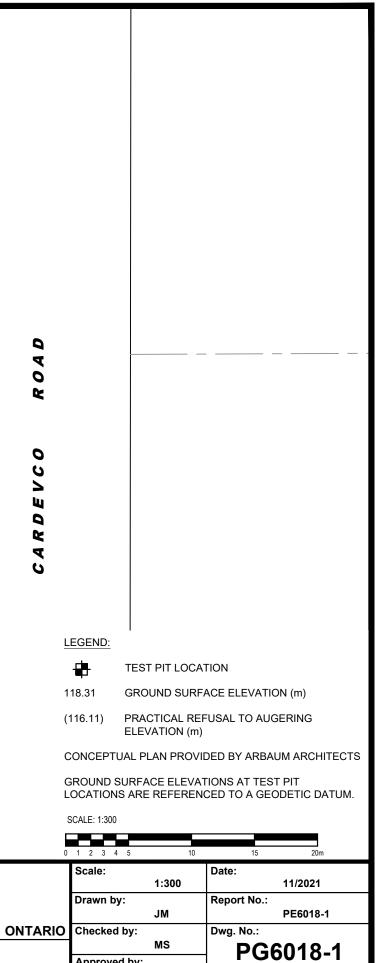
The observations and analyses included in this report are certified to be correct and true copies of the data secured during the performance tests conducted by NSF on the wastewater treatment system described herein. The manufacturer has agreed to present the data in this certification in its entirety whenever it is used in advertising, prospectuses, bids or similar uses.

Sharon Steiner

Jenny Oorbeck General Manager Sustainability

Sharon Stiener Business Unit Manager Wastewater

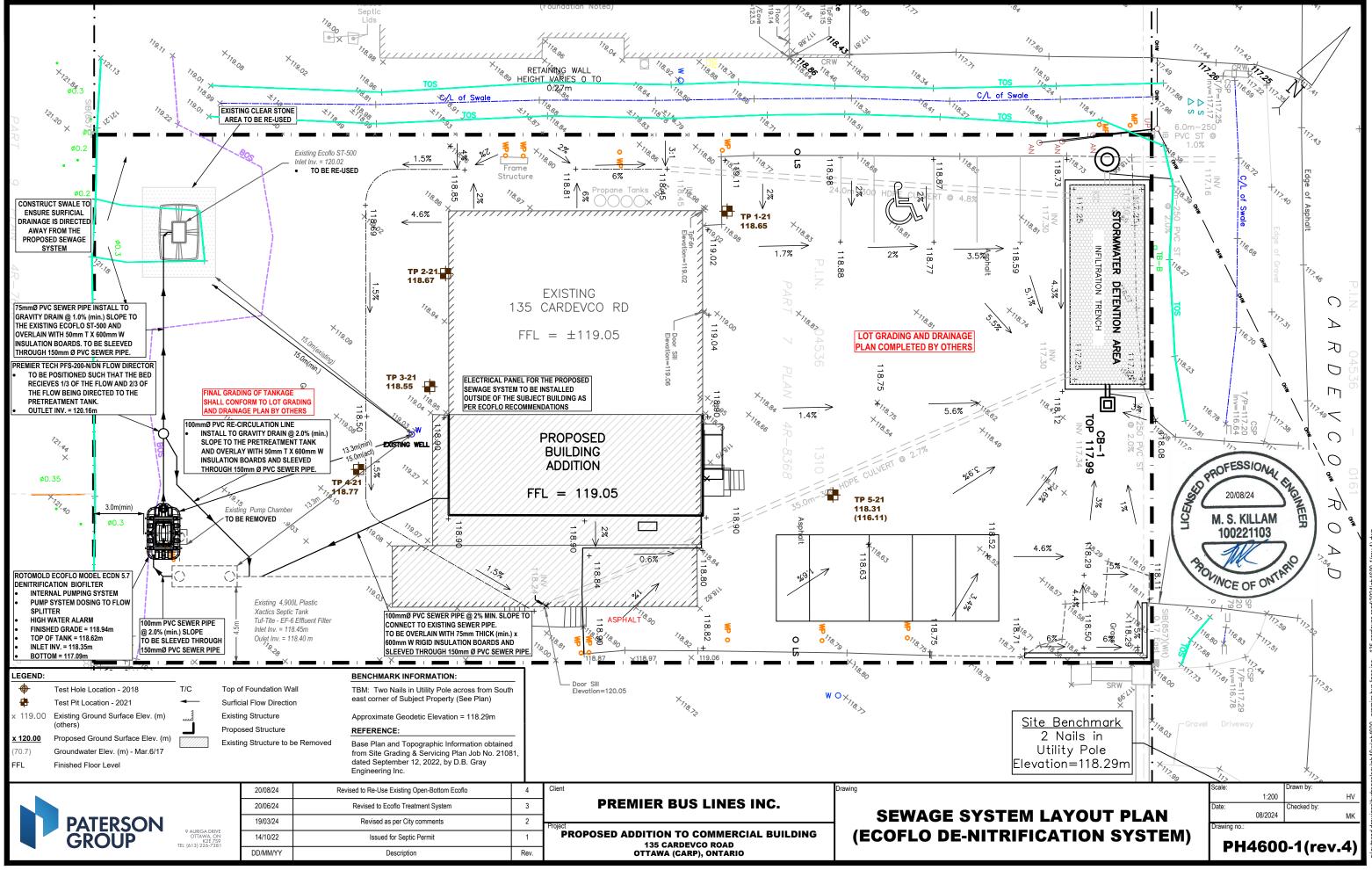




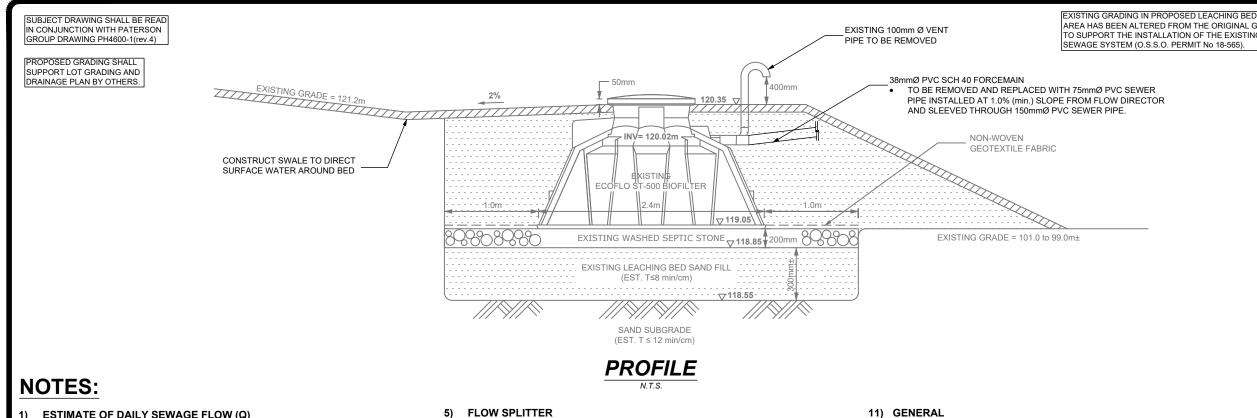
Approved by:

DJG

Revision No.:



utocad drawings\hydrogeology\ph46xx\ph4600 - premier bus lines inc. - 135 cardevco road\2024\ph4600-1(rev.



1) ESTIMATE OF DAILY SEWAGE FLOW (Q)

No. OF EMPLOYEES = 2 x 75 L/DAY = 150 L/DAY

DESIGN SEWAGE FLOW RATE = 876 L/DAY

THE PROPOSED SEWAGE SYSTEM REPLACEMENT, HAS BEEN DESIGNED TO SUIT THE NITRATE REDUCTION REQUIREMENTS OF PROPOSED ADDITION/RENOVATION WORKS OF THE BUILDING. THE DESIGN FLOW RATE HAS NOT BEEN INCREASED FROM THE EXISTING SEWAGE SYSTEM AS PER O.S.S.O. PERMIT No. 18-565, HOWEVER, BASED ON DISCUSSION WITH O.S.S.O. IT HAS BEEN DISCUSSED THAT A MORE ACCURATE METHOD OF FLOW RATE CALCULATION BE USED. THE BUILDING CONSISTS OF A MAINTENANCE GARAGE USAGE WHICH CAN BE CONSIDERED TO BE MOST SIMILAR TO FACTORY TYPE FLOWS. THE SEWAGE FLOW FOR THE EXISTING OCCUPANCY HAS BEEN CALCULATED AS FOLLOWS

- - THE SPLITTER VALVE SHALL BE INSTALLED LEVEL ON A BED OF COMPACTED SAND. THE SPLITTER VALVE CONTAINS TWO (2) OUTLETS. ONE OUTLET RE-CIRCULATES 2/3 OF THE
- EFFLUENT TO THE PRIMARY CHAMBER OF THE TANK, VIA GRAVITY, USING A 100mmØ PVC SEWER PIPE. THE OTHER OUTLET DISCHARGES 1/3 OF THE EFFLUENT, VIA GRAVITY, USING A 75mmØ SEWER PIPE
- 75mmØ SEWER PIPE SHALL BE INSTALLED TO GRAVITY DRAIN @ 1.0% (min.) SLOPE TO THE EXISTING ECOFLO ST-500 AND SHALL BE OVERLAIN WITH 50mm T x 600mm W RIGID INSULATION BOARDS
- THE PUMP SHALL BE OPERATED BY A PREMIER TECH MODEL DCU 100 TIME DOSING CONTROL PANEL
- A 38mmØ SCH40 PVC FORCEMAIN SHALL BE USED TO CARRY THE EFFLUENT FROM THE PUMP CHAMBER (LOCATED WITHIN TREATMENT UNIT) TO THE FLOW SPLITTER.
- THE FORCEMAIN SHALL BE INSTALLED TO GRAVITY DRAIN TO TREATMENT UNIT FORCEMAIN SHALL BE INSTALLED ON A 150mm THICK LAYER OF COMPACTED SAND BEDDING. •
- ALL PIPING SHALL BE SLEEVED THROUGH A 150mm PVC SEWER PIPE

- STONE AREA REQUIRED = Q/50 = 876/75 =11.7m²
- EXISTING STONE AREA PROVIDED = 5.4m x 4.4 = 23.8m²
- SAND AREA REQUIRED = 876(12)/850 = 12.4m²
- SAND AREA PROVIDED = 5.4m x 4.4m = 23.8m² + NATIVE

8) EXISTING TYPE 'A' BED

- EXISTING ECOELO ST-500 BIOFILTER AND EXISTING CLEAR STONE AREA SHALL BE RE-USED AS THE TYPE 'A' BED FOR THE PROPOSED SYSTEM ALTERATIONS.
- THE FINAL LANDSCAPED GRADING SHALL DIRECT SURFACE WATER AWAY FROM THE BIOFILTER
- ENSURE THAT SURFACE WATER IS DIRECTED AWAY FROM THE BIOFILTER

MINIMUM CLEARANCE DISTANCE FROM LEACHING BED 9)

- 3.0m FROM ANY PROPERTY LINE
- 5.0m FROM ANY STRUCTURE; 5.0m TO ANY STRUCTURE WITHOUT PERIMETER DRAINAGE
- 15.0m FROM ANY DRILLED WELL; 31.1m TO ANY DUG OR SANDPOINT WELL
- 10) MINIMUM CLEARANCE DISTANCE FROM TANK(S)
 - 1.5m FROM ANY STRUCTURE
- 13.3m FROM SUBJECT DRILLED WELL AND 15.0m FROM ANY OTHER DRILLED WELL (AS PER EXISTING)
- 3.0m FROM ANY PROPERTY LINE

- FLECTRICAL PANEL FOR TANKAGE SHALL BE LOCATED OUTSIDE OF SUBJECT BUILDING NEAREST THE TANKAGE AS RECOMMENDED BY ECOFLO. SNOW STORAGE SHALL NOT BE PLACED OVER THE SEWAGE SYSTEM COMPONENTS.
- THE SEWAGE SYSTEM HAS NOT BEEN DESIGNED TO SUPPORT TRAFFIC LOADING, AND AS SUCH, THE RISK OF ANY VEHICULAR TRAFFIC SHOULD BE MINIMIZED WITH THE INSTALLATION OF PROTECTIVE BOLLARDS.
- THE BACKFILLING OF THE SEWAGE SYSTEM SHOULD MINIMIZE THE RISK OF OVER COMPACTION WITH THE USE RUBBER TRACKED EQUIPMENT AND BY AVOIDING THE CREATION OF ANY CONSTRUCTION ROUTES OR PATHWAYS OVER THE SYSTEM THE BACKWASH WATERS FROM ANY WATER TREATMENT UNIT. SUCH AS WATER SOFTENER SHOULD NOT DISCHARGE INTO THE SEWAGE SYSTEM
- THE SEWAGE SYSTEM HAS BEEN DESIGNED TO ACCEPT ONLY WATER FROM DOMESTIC TYPE FIXTURES - NO FLOOR DRAINS, WASHWATER, ETC ARE TO BE DIRECTED TO SYSTEM.
- CONTRACTOR SHALL BE QUALIFIED AND REGISTERED UNDER PART 8 OF THE ONTARIO BUILDING CODE. ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH THE LATEST BY-LAWS, CODES AND
- REGULATIONS. CONTRACTOR SHALL REVIEW DRAWINGS IN DETAIL AND SHALL INFORM THE CONSULTANT OF
- ANY ERRORS AND/OR OMISSIONS ON DESIGN DRAWINGS IMMEDIATELY. CONTRACTOR SHALL BE RESPONSIBLE TO LOCATE AND PROTECT ALL EXISTING
- UNDERGROUND SERVICES CONTRACTOR SHALL VISIT THE SITE AND REVIEW ALL DOCUMENTATION TO BECOME FAMILIAR WITH THE SITE AND SUBSURFACE SOIL CONDITIONS TO DETERMINE SUITABLE METHODS OF CONSTRUCTION
- THE FIRM OF PATERSON GROUP INC. HAS PROVIDED DESIGN SERVICES ONLY FOR THE SUBJECT SEWAGE SYSTEM. THE DESIGN HAS BEEN CARRIED OUT IN ACCORDANCE WITH THE MANUFACTURER'S GUIDELINES AND OUR INTERPRETATION OF PART 8 OF THE ONTARIO BUILDING CODE.
- IF THIS FIRM IS TO COMPLETE ANY CONSTRUCTION INSPECTION(S), ADDITIONAL FEES MAY BE APPLIED. CONFIRMATION OF PAYMENT WILL BE REQUIRED PRIOR TO THE INSPECTION.
- THE TEST HOLE INFORMATION PROVIDED. IS INTENDED TO BE USED FOR DESIGN PURPOSES ONLY, AND SHOULD NOT BE RELIED UPON FOR CONSTRUCTION PURPOSES. IF DISCREPANCIES ARE FOUND DURING THE CONSTRUCTION PROCESS, IT IS THE CLIENT'S RESPONSIBILITY TO CONTACT THIS FIRM TO MAKE ANY NECESSARY COMMENTS OR REVISIONS. ADDITIONAL REVISIONS ARE NOT CONSIDERED PART OF THE DESIGN WORKS AND WILL BE CONSIDERED AS AN ADDITIONAL COST
- REFER TO PATERSON GROUP DRAWING No. PH4600-1(rev.3) FOR THE SEWAGE SYSTEM I AYOUT

SOILS INFORMATION GATHERED BY PATERSON GROUP INC. ON SEPTEMBER 12, 2017 & NOVEMBER 4) TYPE 'A' DISPERSAL BED SIZING REQUIREMENTS 12.2021

OFFICE SPACE 90m² = (90m²/9.3) x 75 L/DAY = 726 L/DAY

<u>TH 1-18, ELE</u>	V. 119.09m	TP 2-21, ELE	V. 118.67m	TP 3-21, ELE	EV. 118.55m
0-0.29 0.29-1.20	GRAVEL SAND, TRACE GRAVEL	0-0.10 0.10-0.60 0.60-0.70 0.70-1.00 1.00-2.10	TOPSOIL FILL: SISA, GRAVEL RIGID INSULATION FILL: CRUSHED STONE BROWN SILTY SAND	0-0.12 0.12-0.60 0.60-0.70 0.70-1.60	Topsoil Fill: Sisa Crushed Stone Rigid Insulation Brown Silty Sand

TH DRY UPON COMPLETION

2) SOIL CONDITIONS

3) PRETREATMENT TANK

EXISTING 4,900 L PLASTIC XACTICS TANK c/w TUF-TITE EF-6 EFFLUENT FILTER SHALL BE PUMPED AND RE-USED

- TP DRY UPON COMPLETION

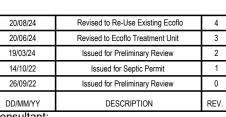
- TP DRY UPON COMPLETION

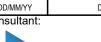
4) TREATMENT UNIT

- THE TREATMENT UNIT SHALL CONSIST OF AN ECOFLO MODEL ECDN5.7 DE-NITRIFICATION ROTOMOLD BIOFILTER, MAXIMUM TREATMENT CAPACITY = 1,755L/D.
- THE TREATMENT UNIT SHALL BE INSTALLED IN SERIES AND DOWNSTREAM FROM THE PRETREATMENT TANK
- CONNECT PRETREATMENT TANK TO TREATMENT UNIT WITH 100mm PVC SEWER PIPE INSTALLED AT 2.0% MINIMUM SLOPE.
- THE TREATMENT UNIT SHALL PRODUCE TERTIARY TREATMENT QUALITY EFFLUENT IN ACCORDANCE TO ITEM 3 OF TABLE 8.6.2.2.A OF THE ONTARIO BUILDING CODE.
- THE TREATMENT UNIT MUST BE INSTALLED ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS BY A CERTIFIED INSTALLER.
- THE TREATMENT UNIT SHALL BE BACKFILLED AND COMPACTED, IN LIFTS, WITH SELECT GRANULAR FILL. SUCH AS SAND OR CLEAR STONE
- THE TOP OF THE TREATMENT UNIT MUST EXTEND TO THE GROUND SURFACE
- THE TREATMENT UNIT SHALL BE FOUIPPED WITH A SINGLE TIME OPERATED FEELUENT PUMP WHICH WILL PUMP THE EFFLUENT TO A PREMIER TECH MODEL PFS-200N/DN SPLITTER VALVE. (DENITRIFICATION UNIT).

AREA HAS BEEN ALTERED FROM THE ORIGINAL GRADE TO SUPPORT THE INSTALLATION OF THE EXISTING







	-	
20/06/24	Revised to Ecoflo Treatment Unit	3
19/03/24	Issued for Preliminary Review	2
14/10/22	Issued for Septic Permit	1
26/09/22	Issued for Preliminary Review	0
DD/MM/YY	DESCRIPTION	REV.
onsultant:		

Client:

Project:

19/03/24	Issued for Preliminary Review	
14/10/22	Issued for Septic Permit	
26/09/22	Issued for Preliminary Review	
DD/MM/YY	DESCRIPTION	
onsultant:		

PATERSON

PREMIER BUS LINES INC.

PROPOSED ADDITION TO

COMMERCIAL BUILDING

GROUP

9 AURIG

K2E TEL: (613) 226-7

20/00/21	· · · · · · · · · · · · · · · · · · ·	
20/06/24	Revised to Ecoflo Treatment Unit	
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DD/MM/YY	DESCRIPTION	R

135 CARDEVCO ROAD **OTTAWA (CARP), ONTARIO**

Drawing:

SEWAGE SYSTEM **DETAIL & NOTES**

Scale Drawn by: NTS HV Date: Checked by: 08/2024 MK Drawing No.: PH4600-2(rev.4)

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