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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

February 11, 2025

PH4600-LET.01.REV.05

Premier Bus Lines Inc. 135 Cardevco Road Ottawa, Ontario K0A 1L0

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.

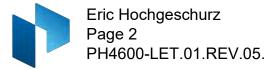
The purpose of this work has been to determine the suitability of the water supply aquifer underlying the site to support the Site Plan Application for a proposed building addition.

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 February 5, 2025 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.

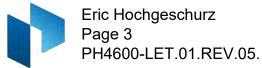
The existing well, hereafter referred to as Test Well 1 (TW1) is the well which is currently servicing the existing building and will continue to service the building following the completion of the proposed building addition. The property owner will need to ensure that protective measures are taken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

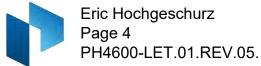
A visual inspection of TW1 was performed by Paterson personnel which confirmed that the well casing and cap are in good condition. The final grading around the well will be sufficiently graded to direct surface water away from the wellhead (as required by O.Reg 903) at the time of the new sewage system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

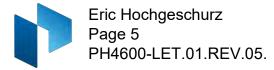
The data logger recorded water levels at 30 second intervals. In addition, manual water level readings were taken at periodic intervals during the test.

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						

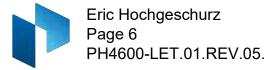
The drawdown data was analyzed using the Theis and Cooper Jacob methods of analysis. Aquifer transmissivity is estimated to be 17.2 m²/day. Refer to the Theis and Cooper Jacob methods of analysis data sheets attached to this report.

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).



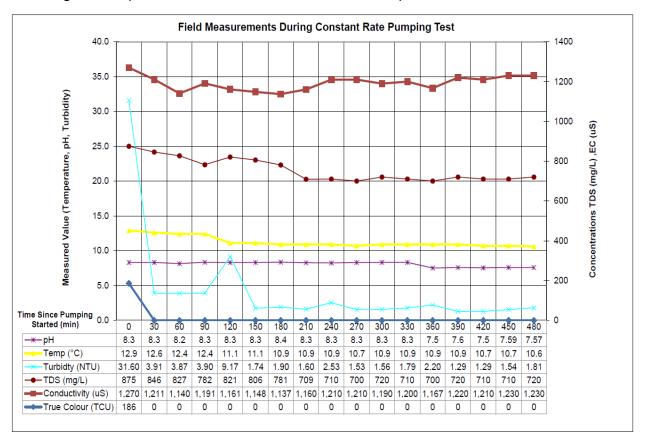
Based on the information summarized in Table 1, it is readily apparent that the water supply well has intercepted an adequately strong water supply aquifer which has sufficient quantity to service the proposed Site Plan Control Application.

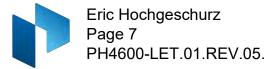
Given the analyses presented and summarized above, it is our opinion that there is an adequate supply of water to support the proposed Site Plan Control Application. Available water well records (WWR) of the neighboring properties on the MECP Well Record mapping website indicated that the wells were 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			GW1 (4 hr) 2022-09-22	GW2 (8 hr) 2022-09-22					
MICROBIOLOGICAL										
Escherichia Coli (E.Coli)	ct/100mL	0	MAC	0	0					
Total Coliforms	ct/100mL	0	MAC	0	0					
GENERAL CHEMICAL - HEA	LTH RELATE	D								
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)	TCU	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					
р <mark>Н</mark>	unitless	6.5-8.5	AO	8. 1 5	<mark>8.1</mark> 5					
Phenols	mg/L	-	-	<0.001	< <mark>0.00</mark> 1					
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



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TABLE 2b: GROUNDWAT	ER GEOCHEMI	STRY - MET	ALS		
		00	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:

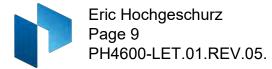
MAC = Maximum Acceptable Concentration

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



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

The City of Ottawa (Ottawa Public Health) has prepared a Manganese in drinking Water Factsheet, which can be found attached to this report.

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.

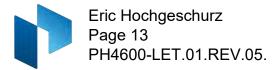
During the pumping test, a Hanna Instruments HI98703 Fast Tracker Turbidity Meter was used to measure the turbidity in the groundwater at regular intervals. The ODWS maximum acceptable concentration for turbidity in drinking water entering the distribution system is 1 NTU. The Aesthetic Objective for 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.



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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 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



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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.

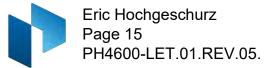
Based on available Ontario Geological Survey (OGS) mapping (GRS005), the subject site is within an area of potential karst. According to the WWR for TW1, bedrock is located at approximately 4.9 m below ground surface (bgs). TW1 has well casing extending to a depth of 6.7 m bgs, and an aquifer intercept of 25 m. Based on the depth of the aquifer intercept and the geochemistry encountered within the aquifer (see table 2a and 2b, above), 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.

According to the Ontario Building Code (OBC) Section 8.7.2.1 (1) (b)(i), highly permeable soils as it relates to sewage system design is defined by soils having a percolation rate of less than 1 minute per cm. According to the Ministry of Municipal Affairs and Housing (MMAH) Supplementary Standard SB-6 – Percolation time and soil descriptions dated January 1, 2024 only "Well graded gravels, gravel-sand mixtures, little or no fines" or "Poorly graded gravels, gravel-sand mixtures, little or no fines" have a percolation time of less than 1 minute per cm. Paterson's Memo PH4600-LET.02 – In-Situ Infiltration Testing dated August 20, 2024 determined that the percolation time is greater than 1 cm per min. As such, septic impacts due to highly permeable soils are not anticipated onsite.

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 February 5, 2025. 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 required 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:

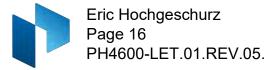
- □ Office space with an area of 90 m² : 726 L/day
- □ Number of employees in the garage (2 employees x 75 L/day) = 150 L/day

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 m³/d					
 Concentration of nitrate in effluent (Value based on typical effluent concentration) 	40 mg/L					
Concentration of nitrate in effluent with treatment 18.44 mg/ (Value based on nitrate reduction system (Ecoflo ECDn Series) with 53.89 % nitrate reduction						
Surplus Water (The surplus water value was estimated based on Environment Canada values with a soil type comprised of fine sandy loam (Urban Lawns) an sources.)						
 Combined infiltration factor based on: Topography infiltration factor Soil texture infiltration factor Cover infiltration factor 	0.70 0.20 0.40 0.10					

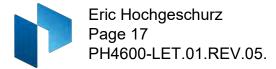


The topography infiltration factor of 0.20 is based upon a rolling land with an average slope of 2.8 to 3.8 m/km. The soil texture infiltration factor was based upon an "open sandy loam" with a value of 0.4 which is a reasonable generalization based upon the site investigations and available geological 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 passed Ecoflo system has the NSF/ANSI Standard Series. The 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).

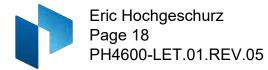
Based on the results of the predicted nitrate impact assessment, it is our opinion that the property can adequately support the proposed building addition without having an adverse impact on the underlying bedrock aquifer, provided that a Rewatec Ecoflo ECDn Model Series is used in the septic system.



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 February 5, 2025
- 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
- City of Ottawa Manganese in drinking Water Factsheet
- 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
- Paterson Drawing PH4600-2(rev.4) Sewage System Details and Notes

Ottawa Head Office 9 Auriaa 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

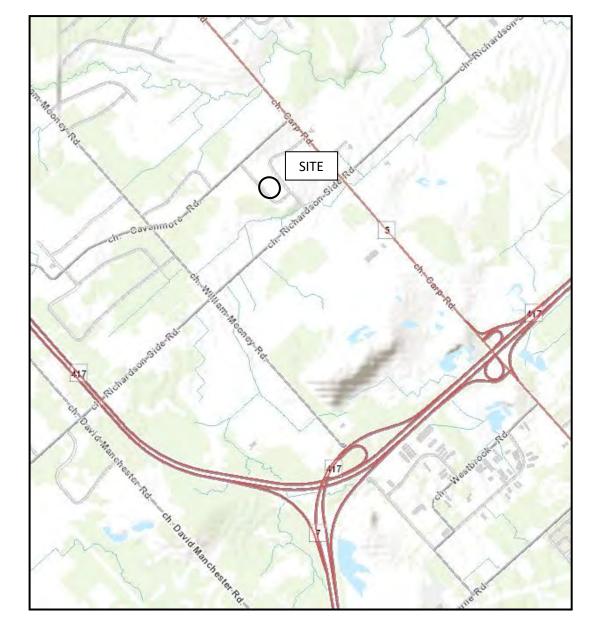


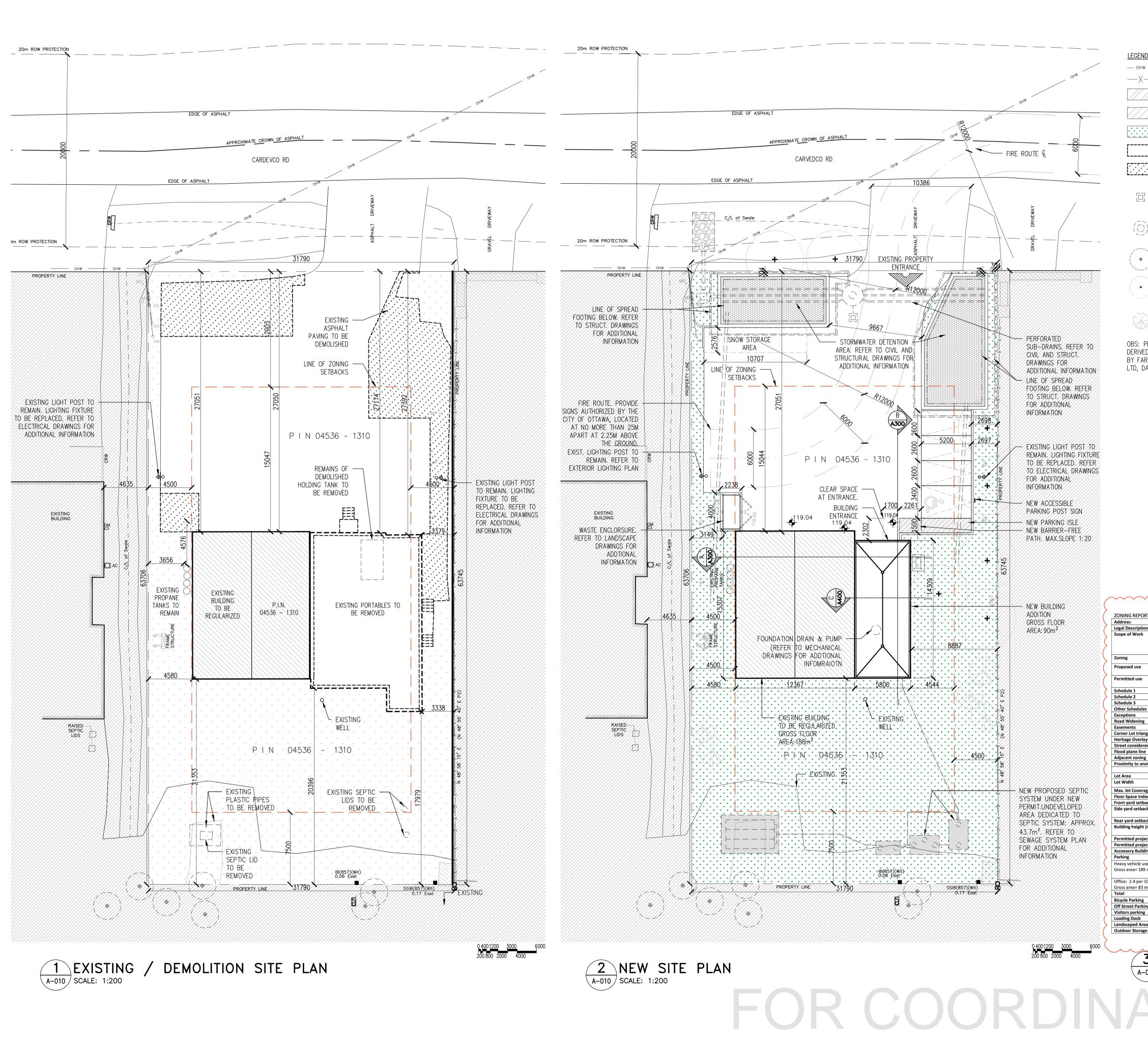
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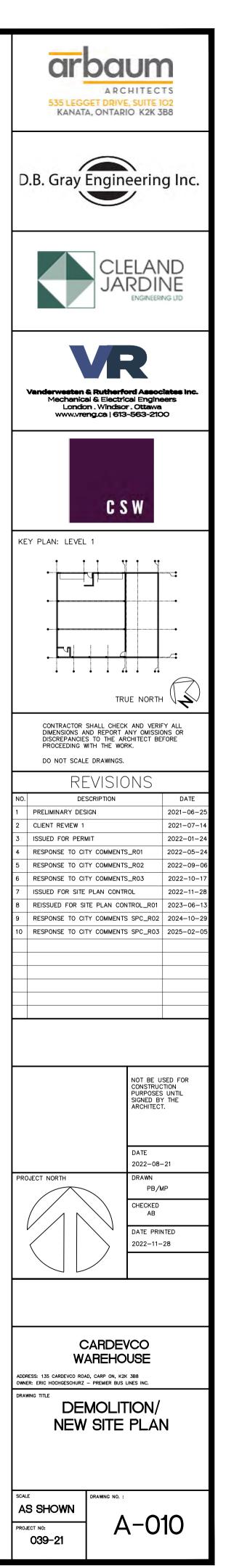
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FIGURE 1 KEY PLAN





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] SALTY ⁴ MINERAL] FRESH 3 SULPHUR ²⁹	8 ³ □ CONCRETE				10	-13 14-17			
1 1 2	SALTY 4 [] MINERAL	24-25 1 □ STEEL 5 <u>7</u> 2 □ GALVANIZE 3 □ CONCRETE		200	27-30	26-				
2	SALTY 4 MINERAL									
71 PUMPING TEST MET	10 PUMPING RATE 2 BAILER		15-16 17	-18		L	OCATION O	FWELI		
	WATER LEVEL 25 END OF WATER LEV PUMPING				IN DIAGE LOT LINI		OW SHOW DISTANCE DICATE NORTH BY AR		FROM ROAD A	ND
	22-24 15 MINUTES 26-20 150 FEET 150 FEET	30 MINUTES 45 NINU 29-31 150 150	32-34 35	-37		($\int or o$	RA	$\int \partial \Omega$	₩~)
	38-41 PUNP INTAKE SE		FEET 150 F	EET 2		<u> </u>	SAP			<u>/</u>
U IF FLOWING. GIVE RATE		43-45 RECOMMEND	EAR 2 CLOUI		Ľ	. <u>.</u>				
C. SHALLOW	PUMP SETTING	175FEET. RATE	<u>5</u>	ipm		s b				
FINAL	54 1 1 WATER SUPPLY	S ABANDONED, IN	SUFFICIENT SUPPL		mit a	ર્				
STATUS	2 COBSERVATION WELL 3 COSSERVATION WELL	6 🗌 ABANDONED PC 7 🔲 UNFINISHED	DOR QUALITY		J.					
OF WELL	A PECHARGE WELL	S COMMERCIAL			A	L L		1	4	
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USE	4 DINDUSTRIAL	COOLING OR AIR CO 9	NOT USED		ð			-Ì		
METHOD	57 1 CABLE TOOL 2 ROTARY (CONVENTION	6 DBORING			ł					
OF DRILLING	3 🗌 ROTARY (REVERSE) 4 🔲 ROTARY (AIR)	B 🗍 JETTIN 9 🗋 DRIVIN	G		,	₹¥¢	-			i
NAME OF WELL	S AIR PERCUSSION	· · · · · · · · · · · · · · · · · · ·	LICENCE NUMBER		LLERS REMARKS	58 [0	ONTRACTOR 59-62	DATE RECEIVED		• • •
😤 _ Capita	<u>l Water Supply </u>	_td.	1558	۲ N	SOURCE			21	01	86
Box 49	0; Stittsville,	Ont. KOA 3GO					INSPECTOR	•		
	ler / B. Moore		LICENCE NUMBER		REMARKS	•				
SIGNATURE OF	CONTRACTOR	SUBMISSION DATE	1	OFFICE					<u> </u>	60
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1 2	M 10 12	DG OF OVERBURDEN AND BEDR	25		J L 30					47
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41 WA	TER RECORD	51 CASING & OPEN HOLE		CORD		ZEISI OF DPI SLOT NO I	ENING	31-33 DIAME	TER 34-38 (.ENGTH 39-40
AT - FEET	KIND OF WATER		FROM	TO 13-16	SCREEN	ATERIAL AN	D TYPE	I	INCHES DEPTH TO TOP OF SCREEN	FEET 41-44 30
205 2 [□ SALTY 4	10-13 T S STEEL 12 2 GALVANIZED 10 GALVANIZED 10 GALVANIZED 10 GALVANIZED 10 GALVANIZED 10 GALVANIZED	0	1		1				FEET
2 [4 OPEN HOLE		20.23	 	TH SET AT -	FEET	MATERIAL AND		NT GROUT
z [FRESH 3 SULPHUR 24 SALTY 4 MINERAL	6 2 □ GALVANIZED 3 □ CONCRETE 4 □ OPEN HOLE	22	275	FRO	DM 10-13	TO		LEAD PA	(CKER. ETC.) "
2 [☐ FRESH 3 ☐ SULPHUR ²⁹ ☐ SALTY 4 ☐ MINERAL	24-25 1 STEEL 26	275	27-30 380		18-21	22-25			
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71 PUMPING TEST ME		E 11-14 DURATION OF PUNPING				LOCA	TION	OF WEL	L	
STATIC LEVEL	2 X BAILER WATER LEVEL 25 END OF WATER L	GPN HOURS NINS EVELS DURING 2 DRECOVERY		IN DI LOT I			W DISTANC		FROM ROAD A	ND
	26-2	30 MINUTES 45 MINUTES 60 MINUTES 8 29-31 32-34 35-31			\sim)	~		01	
	T 175 PEET 150 PE 38-41 PUMP INTAKE		-			our	<u>n è</u>	ide	Kd.	•
U O FEE GIVE RATE GUE RECOMMENDED PU	GPM. UMP TYPE RECOMMENDE	FEET 1 □ CLEAR 2 2 CLOUDY							Ň	
SHALLO		300 FEET RATE 5 GPM		*					\sim	
60-53	5:4	_		(2						
FINAL STATUS	2 OBSERVATION WEI	5 ABANDONED, INSUFFICIENT SUPPLY 1 ABANDONED, POOR QUALITY 2 UNFINISHED		Ŭ.					L'hanne an	
OF WELL	A D RECHARGE WELL	S COMMERCIAL		F		,				
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METHOD	57 1 CABLE TOOL 27	75-380 © Diamond		E	\mathcal{O}	<u>d</u>	4 line	<u>ente</u>	<u>Ka</u>	_
OF	3 🔲 ROTARY (REVERSE 4 🔲 ROTARY (AIR)	:) 8 🗆 JETTING 9 🗖 DRIVING							0/	681
			ļĿ	RILLERS REMAR						001
Capi	contractor tal Water Suppl	y Ltd. 1558		DATA SOURCE	58	CONTRACTO		DATE RECEIVED	0502	87
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151	490: <u>Stittsvill</u> LER OR BORER						.1			
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Ontario Envir	ONMENT	SPACES PROVIDED	15223		
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GREY BLAC			~		70' 130'
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31 32					
1 2 10		51 CASING & OPEN HOLE F	RECORD	SIZE SI OF OPENING SIZE SI OF OPENING (SLOT NO)	31-33 DIAMETER 34-38 LENGTH 39-40
WATER FOUND AT - FEET	KIND OF WATER	DIAN MATERIAL THICKNESS	DEPTH - FEET	C MATERIAL AND TYPE	INCHES FEE DEPTH TO TOP 41-44 3 OF SCREEN
128 10	FRESH 3 ØSULPHUR 14 SALTY 4 MINERALS 6 GAS FRESH 3 SULPHUR 19		323.16		
2 🗌	SALTY 4 I MINERALS 6 I GAS FRESH 3 I SULPHUR 24	E 5 □ PLASTIC 22 17-18 1 □ STEEL 19 2 □ GALVANIZED	20-23		MATERIAL AND TYPE (CEMENT GROUT LEAD PACKER, ETC.)
	SALTY 4 IMINERALS 6 GAS FRESH 3 SULPHUR 29	3 □CONCRETE 4 □OPEN HOLE 5 □PLASTIC	27-30	10-13 14-17	
30-33 1	$\begin{array}{c} 4 \ \square \text{ MINERALS} \\ \text{SALTY} 4 \ \square \text{ MINERALS} \\ 6 \ \square \text{ GAS} \\ \hline \\ \text{FRESH} 3 \ \square \text{SULPHUR} 34 \text{ PO} \\ 4 \ \square \text{ MINERALS} \end{array}$	24-25 2 GALVANIZED 3 CONCRETE 4 GOPEN HOLE	27-30	18-21 22-25 26-29 30-33 80	1
PUNPING TEST NETH	SALTY 6 GAS	E 11-14 DURATION OF PUMPING			OF WELL
71 1 D PUMP 2	WATER LEVEL 23	12 GPN 2 15-16 17-18 HOURS 1 PUMPING		AGRAM BELOW SHOW DISTAN	CES OF WELL FROM ROAD AND
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	SD FEET SD FEI 38-41 PUMP INTAKE		(10	ALMONTE ROA	
U FEET IF FLOWING, GIVE RATE		FEET 1 CLEAR & CLOUDY 0 43-45 RECOMMENDED 44-43 PUMPING C	CARP PARK		77.
CL SHALLOW	DEEP SETTING	100 FEET RATE GPM			27
FINAL	1 🗗 WATER SUPPLY	ABANDONED, INSUFFICIENT SUPPLY ABANDONED POOR QUALITY	QUEENSWAY- JNDUSTRIAL	0.80 0.2	*M
STATUS OF WELL	3 TEST HOLE 4 RECHARGE WELL	7 🗌 UNFINISHED 9 🔲 DEWATERING	JW	¥ ¥	n
WATER	-56 1 DOMESTIC 2 C STOCK 3 C IRRIGATION	S COMMERCIAL B MUNICIPAL 7 D PUBLIC SUPPLY			20
USE	4 INDUSTRIAL	COOLING OR AIR CONDITIONING O			0
METHOD	57 1 CABLE TOOL 2 CABLE TOOL 2 ROTARY (CONVEN				
	3 C ROTARY (REVERSE 4 ROTARY (AIR) 5 AIR PERCUSSION	E) B [] JETTING 9 [] DRIVING [] DIGGING [] OTHER	CON DRILLERS REMAI	AN SDE ROAD	REAL ASE
NAME OF WELL C		WELL CONTRACTOR'S LICENCE NUMBER			2 DATE RECEIVED 53-46 A
ADDRESS ADDRESS AR2 (NAME OF WELL)	AGH ESON W. CARLETON	PLACE			
	JATECHNICLAN	64 WELL TECHNICIAN'S LICENCE NUMBER			
	TECHNICIAN/CONTRACTOR	AUBNISSION DATE	OFFICE		
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OUNTY OR DISTRICT	a-Carleton	TOWNSHIP, BOROUG	arleton -		T	CON	BLOCK, TRACT, SUF			LOT 23
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			17 Route 1					DAY	но ні	
2	10 12	- 17 18	24			30	31			
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Brown	COMMON MATERIAL			******	Dog	ked		· · · · · · · · · · · · · · · · · · ·	FROM	TO E
Gray	Clay	Boulders				ked			6	g
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WATER FOUND AT - FEET 92 2 □ 19-13 1 □ 92 2 □ 19-10 1 □ 118 2 □ 20-23 1 □	14 15 21 ER RECORD 21 KIND OF WATER 14 FRESH 3 Strulphur SALTY 4 GMINERALS GAS 5 GAS FRESH 3 Strulphur SALTY 4 GMINERALS SALTY 4 GMINERALS SALTY 4 GMINERALS FRESH 3 GSULPHUR SALTY 6 GAS FRESH 3 GSULPHUR SALTY 6 GAS	INSIDE DIAM INCHES 6 1 4 30 CONCRE 4 30 CONCRE 4 40 OPEN H 5 0 PLASTIC 17-16 1 0 STEEL 2 0 GALVAN 3 0 CONCRE 2 0 GALVAN 3 0 CONCRE	INCHES IZED TE OLE IS IZED TE IZED TE	DLE RECC DEPTH FRUM 0 22		G1 DEPTH S FROM	RIAL AND TYPE	31-33 DIAME	INCHES DEPTH TO TOP OF SCREEN	41-44 FEE
2 [] 30-33 1 [] 2 [] PUMPING TEST NETH	FRESH 3 SULPHUR 2* SALTY 4 INIMERALS 6 GAS SALTY 6 GAS 3* 5 FRESH 3 SULPHUR 3* 5 SALTY 6 GAS 5 3* 5	4 1000 CPEN H 51 D PLASTIC 24-25 1 □ STEEL 2 □ GALVAN 3 □ CONCRE 4 □ OPEN H 5 □ PLASTIC	26 IZED TE OLE		27-30	26	21 22-25 29 30-33 (
71	2 DAILER WATER LEVEL END OF PUMPING 22-24 20 FEET 20 FEET 2	20 GPM 2 EVELS DURING EN 20-31 ET 20 FEET SET AT WATER FEET 1	15-16 HOURS PECOVERY INUTES 20 FEET 20 FEET 20 FEET CLEAR CLEAR CLOAC CLEAR CLOAC CLEAR CLOAC CLEAR CLOAC CLEAR CLOAC CLEAR CLOAC CLEAR CLOAC CLEAR CLOAC CLEAR CLOAC CLEAR CLOAC CLEAR CLOAC CLEAR	42	IN DIAG LOT LIN CMC. H	RAM BELC	Sclettion	CES OF WELL ARROW.	FROM ROAD A	N D
FINAL STATUS OF WELL '' WATER USE	1 WATER SUPPLY 2 OBSERVATION WELL 3 TEST HOLE 4 RECHARGE WELL -55 1 2 STOCK 3 IRRIGATION 4 INDUSTRIAL 0 OTHER	L 6 ABANDONEC 7 UNFINISHEI 9 DEWATERING 5 CONMERCIAL 6 MUNICIPAL 7 PUBLIC SUPPLY 4 COOLING OR AIR	0			Caupy K			ess daptor.	
METHOD OF CONSTRUCTIO	37 1 CABLE TOOL 2 ROTARY (CONVENT 3 ROTARY (REVERSE 4 ROTARY (AIR) 5 AIR PERCUSSION		AMOND ITING IVING	DRII	LERS REMARKS				38	189
Capita	ONTRACTOR 1 Water Supply	Ltd.	WELL CONTRACT LICENCE NUMBE 1558		DATA SOURCE	58 0	1558	SEP	01 198	8
ADDRESS); Stittsville,			- 1 I w	DATE OF INSPEC	TION	INSPECTOR	i	<u> </u>	
NAME OF WELL	TECHNICIAN	, where from J	WELL TECHNICH		REMARKS		I		······································	
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$\begin{array}{c c} 32 \\ \hline 1 \\ \hline 41 \end{array}$ WATER RECORD	CASING & OPEN HOLE F		DPENING 31-33 DIAMETER 34-38 LENGTH 39-40
WATER FOUND AT - FEET KIND OF WATER	INSIDE WALL DIAM MATERIAL THICKNESS		INCHES FEET AND TYPE DEPTH TO TOP 41-44 10
2 SALTY 6 GAS	INCHES INCHES FROM 12		OF SCREEN
15-18 1 @ FRESH 3 □ SULPHUR 19 4 □ SALTY 4 □ MINERALS 2 □ SALTY 6 □ GAS	3□ CONCRETE 4□ OPEN HOLE 5□ PLASTIC	20-22 DEPTH SEI-A	PLUGGING & SEALING RECORD
20-23 1 [] FRESH 3 [] SULPHUR 2 [] SALTY 6 [] GAS	1 STEEL 2 GAJVANIZED 3 GONCRETE 4 POPEN HOLE		10 MATERIAL AND TYPE LEAD PACKER ETC.)
25-28 1 [] FRESH 3 [] SULPHUR 4 [] NINERALS 2 [] SALTY 6 [] GAS	5 □ PLASTIC 24-25 1 □ STEEL 26	27-30	19 CEMENT SKOW
30-33 1 FRESH 3 SULPHUR 34 4 MINERALS 2 SALTY 6 GAS	2 □ GALVANIZED 3 □ CONCRETE 4 □ OPEN HOLE 5 □ PLASTIC	26-29	30-33 80
71 PUMPING TEST METHOD 10 PUMPING R	TE 11-14 DURATION OF PUMPING 15-16 17-16 15-16 17-16 HOURS 17-16	LOC	ATION OF WELL
	LEVELS DURING 2 RECOVERY		HOW DISTANCES OF WELL FROM ROAD AND E NORTH BY ARROW.
$ \mathbf{F} \mathbf{n} \mathbf{z} \mathbf{O} \mathbf{z} \mathbf{O} $	$2\partial^{1} \partial^{2} \partial^{2} \partial^{3} \partial^{$	- TO CARP	REG #5
Z IF FLOWING. 38-61 PUMP INTAR GIVE RATE			
RECOMMENDED PUMP TYPE RECOMMENDED PUMP	ED 43-43 RECOMMENDED 44-43 PUMPING		- KN
SO-S3		Lan	JE WAY / ING
FINAL 2 OBSERVATION W STATUS			
OF WELL 4 RECHARGE WELL			House
WATER 3 DI IRRIGATION	S COMMERCIAL S MUNICIPAL 7 D PUBLIC SUPPLY		
USE 4 🗇 INDUSTRIAL	COOLING OR AIR CONDITIONING D NOT USED		, a
METHOD 57 1 CABLE TOOL 2 ROTARY (CONVE			XE-well
OF CONSTRUCTION • D BOTARY (AIR) • D AIR PERCUSSION	DRIVING	DRILLERS REMARKS	39003
NAME OF WELL CONTRACTOR	MELL CONTRACTOR'S	DATA 58 CONTR	
ADDRESS ADDRESS BOBOX 431	NGCONTD 5222	DATE OF INSPECTION	222 JAN 0 9 1989
	WELL TECHNICIAN'S LICENCE NUMBER	Ш Л АЕ МАРК 5 Ш	
Signature of technician/contractor	SUBMISSION DATE	WDE	
$\frac{1}{1} \frac{1}{1} \frac{1}$		0	CSSIES FORM NO. 0506 (11/86) FORM 9

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COUNTY OR DISTRICT	2. CHECK 🖂 CORR	TOWNSHIP, BOROUGH, CITY, TOWN VILLAGE		to 14 15 CON BLOCK TRACT. SURVEY ETC 3		<u>22</u> 23 24 .01 25-27 6
		to carleton	wie 100 11	DATE CON	1 08	•-ss ув
		. #3 Carp,Onta	ELEVATION	DAY DAY RC BASIN CODE II I I I I	<u>і , но ос</u>	IV
		G OF OVERBURDEN AND BEDR	CK MATERIALS	(SEE INSTRUCTIONS)		<u>47</u>
GENERAL COLOUR	NOST COMMON MATERIAL	OTHER MATERIALS		GENERAL DESCRIPTION	DEPTH FROM	- FEET
Brown	Sand	Stones		Loose	0	6
Gray	Sand	Boulders		Packed	6	20
Gray	Limestone	Black Layers		Medium Soft	20	260
	<u> </u>					
	····					
	· · · · · · · · · · · · · · · · · · ·					
31						
32						
41 WAT	TER RECORD	51 CASING & OPEN HOLE	RECORD	SIZE(S) OF OPENING 31-33 DIAM	INCHES	ENGTH 39-40 . F eet
AT - FEET	KIND OF WATER	DIAM MATERIAL THICRNESS F INCHES INCHES F		MATERIAL AND TYPE	DEPTH TO TOP OF SCREEN	41-44 30 FEET
22 ²	G D GAS	6 1/4 2 GALVANIZED 3 CONCRETE 4 COPEN HOLE 4 COPEN HOLE	0 22"	61 PLUGGING & SEA	LING RECO	· · · · · · · · · ·
20-23 1	FRESH 3 SULPHUR 24	5 □ PLASTIC 17-18 1 □ STEEL 2 □ GALVANIZED	20-23	DEPTH SET AT - FEET MATERIAL AT		NT GROUT ICKER. ETC)
	4 □ MINERALS 5 ALTY 6 □ GAS FRESH 3 □ SULPHUR 29 4 □ SULPHUR	5 7/8 CONCRETE	22 260	10-13 14-17 Grouted 16-21 22-25 Ce	ment	
	4 □ MINERALS 3 SALTY 6 □ GAS 5 FRESH 3 □ SULPHUR 34 PC 4 □ MINERALS	24-25 26 2 □ GALVANIZED 3 □ CONCRETE 4 □ OPEN HOLE		26-29 30-33 80		
	SALTY 6 GAS	5 DPLASTIC	J LJ LJ L			
71	Z 👷 BAILER	2 GPH IS-16 17-18		LOCATION OF WE		ND
LEVEL		LEVELS DURING	LOT LINE			
		ET 125FEET 125FEET 125FEET				
U B FEET IF FLOWING. GIVE RATE RECOMMENDED PU	SB-BI PUMP INTAKE	SET AT WATER AT END OF TEST 42				
RECOMMENDED PU	MP TYPE RECOMMENDE PUMP	D 43-45 RECOMMENDED 46-49 PUMPING 250 FEET RATE 2 GPN		(A)	_	
i0-53]		D2	
FINAL STATUS	1 WATER SUPPLY 2 OBSERVATION WE 3 TEST HOLE	S ABANDONED, INSUFFICIENT SUPPLY S ABANDONED POOR QUALITY UNFINISHED		ardevco	Carp Rd	
OF WELL	4 🗌 RECHARGE WELL			Š U	US	
WATER	Z STOCK S IRRIGATION	6 🗌 NUNICIPAL 7 🔲 PUBLIC SUPPLY	75'			
USE	4 INDUSTRIAL	COOLING OR AIR CONDITIONING D NOT USED	98'			
METHOD	57 1 CABLE TOOL 2 CABLE TOOL 2 ROTARY (CONVEN			ichardson side R	<i>b</i>	
	ON A D ROTARY (REVERS A D ROTARY (AIR) A D AIR PERCUSSION	E)	DRILLERS REMARKS		50	876
NANE OF WELL		WELL CONTRACTOR'S		SE CONTRACTOR SP-62 DATE RECEIV		63-68 80
Capita ADDRESS V Box 490	l Water Supply		DATE OF INSPECTI	1558 SEF	> 1 2 1989	9
) Stittsville	Ontario K2S 1A6		· · · · · · · · · · · · · · · · · · ·		
U J. MOOI SYGNATURE OF	TECHNICIAN / CONTRACTOR	LICENCE NUMBER	OFFICE			
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	MOST	DG OF OVERBURDE			GENERAL DESC		DEPT	H · FEET
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1 DROWN	Sand.	Doulde	<u>π></u>		hoose		- O	17'
DROWN	GRAVEL	DOWICIER	<u>S</u>		MED	E	12'	50'
GREY	6IMESTONE	-			TED			
					\$			
		<u> </u>						
31					سبا لس			
						ENING 31-33	diameter 34-38	LENGTH 39-40
WATER FOUND	KIND OF WATER	51 CASING &	WALL THICKNESS	DEPTH - FEET			INCHES-	FEET
	FRESH 3 SULPHUR 14 SALTY 4 MINERALS	INCHES	INCHES FF	ксм то	O MATERIAL AN	DTYPE	DEPTH TO TOP OF SCREEN	41-44 30
100 1		1 / /"" 1 OSTEEL	12	0 113416	is			FEET
	FRESH 3 SULPHUR	GAN 1 OSTEEL 2 GALVANIZED 3 CONCRETE 4 OPEN HOLE	", <i>18</i> 8 () 22"	S	PLUGGING &	SEALING REC	
N2 ·	FRESH 3 USULPHUR FRESH 3 USULPHUR SALTY 6 GAS FRESH 3 USULPHUR 24	2 GALVANIZED 3 CONCRETE 4 OPEN HOLE 5 D PLASTIC 7/7 ⁶ 1 D STEEL) 22"	s	FEET	ICE	
N2 20-23 1 20-23 1 2	6 GAS 9 FRESH 3 SULPHUR 19 4 MINERALS 6 GAS 5 FRESH 3 SULPHUR 24 4 MINERALS 6 GAS 5 SALTY 6 GAS 5 SALTY 6 GAS	2 DGALVANIZED 3 CONCRETE 4 OPEN HOLE 5 PLASTIC	,188 🤇		O DEPTH SET AT	FEET MATERI		ORD
NQ 2 20-23 1 2 25-28 1 2 2 2 2 2 2 2 2 2	b G GAS 2 FRESH 3 SALTY 4 MINERALS 6 GAS 7 FRESH 3 SULPHUR 24 MINERALS 6 GAS 1 FRESH 3 SULPHUR 24 GANERALS 6 GAS 1 FRESH 3 SULPHUR 29 GAS 5 SALTY 6 GAS	21 ⊂ GALVANIZED 3 ⊂ CONCRETE 4 ⊂ OPEN HOLE 5 ⊂ PLASTIC 2 ⊂ GALVANIZED 3 ⊂ CONCRETE 4 ⊂ OPEN HOLE 5 ⊂ PLASTIC 24-25 1 ⊂ STEEL 2 ⊂ GALVANIZED 24-25 1 ⊂ STEEL 2 ⊂ GALVANIZED	,188 🤇	20-23	61 F DEPTH SET AT FROM 010-13 18-21	FEET MATERY TO MATERY 04-17 Cen	ICE	ORD
<u>N2</u> 2 20-23 , 2 25-28 , 2 2-2-3 , 2 2-2-3 , 2 2 2-2-3 , 2 2 2-2-2 , 2 2 2-2-2 , 2 2-2-2 , 2 2 2-2-2 , 2 2-2-2 , 2 2 2-2-2 , 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	→ → → → → ✓ FRESH 3 □ SULPHUR ↓ → MINERALS 6 □ GAS □ FRESH 3 □ SULPHUR ↓ → SALTY 4 □ □ → ↓ SALTY 4 □ □ ↓ ↓ GAS □ GAS ↓ □ FRESH 3 □ □ ↓ □ → □ ↓	21 ⊂ GALVANIZED 3 ⊂ CONCRETE 4 ⊂ OPEN HOLE 5 ⊂ PLASTIC 2 ⊂ GALVANIZED 3 ⊂ CONCRETE 4 ⊂ OPEN HOLE 5 ⊂ PLASTIC 24-25 1 ⊂ STEEL 2 ⊂ GALVANIZED 24-25 1 ⊂ STEEL 2 ⊂ GALVANIZED	,188 C	2' 50'	61 F DEPTH SET AT FROM 010-13 2	TO MATERI		ORD
20-23 ; 20-23 ; 25-28 ; 25-28 ; 20-33 ; 2 20-33 ; 2 20-33 ; 2 20-33 ; 2 20-23 ; 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	b GAS G FRESH 3 SULPHUR 19 SALTY 4 MINERALS 6 GAS FRESH 3 SULPHUR 24 SALTY 6 GAS 19 FRESH 3 SULPHUR 24 SALTY 6 GAS FRESH 3 SULPHUR 24 SALTY 6 GAS FRESH 3 SULPHUR 24 SALTY 6 GAS 6 CAS 7 9 9 9 SALTY 6 GAS 7 6 CAS 7 7 9 9 9	24-25 24-25 24-25 24-25 24-25 24-25 24-25 24-25 24-25 24-25 24-25 24-25 1 Gatel 2 Galvanized 3 Concerte 4 Open Hole 5 Plastic 24-25 1 Gatel 2 Galvanized 3 Concerte 4 Open Hole 5 Open Hole 5 Open Hole 5 Oplastic 4 Open Hole 5 Oplastic 4 Open Hole 5 Oplastic	188 C	2' 50'	61 DLP7H SET AT FROM 010-13 10-13 26-29	FEET MATERY TO MATERY 04-17 Cen	IAL AND TYPE LEAD	ORD
NQ z 20-23 1 25-26 1 25-26 1 20-33 1 20-33 1 20-33 1 20-34 1 20-35 1 20-37 1 20-38 1 20-39	b GAS G FRESH 3 SULPHUR SALTY 4 MINERALS G GAS TRESH 3 SULPHUR SALTY 4 MINERALS GAS GAS TRESH 3 SULPHUR SALTY 6 GAS FRESH 3 SULPHUR SALTY 6 GAS FRESH 3 SULPHUR SALTY 6 GAS FRESH 3 SULPHUR SALTY 6 GAS	2 GALVANIZED 3 CONCRETE 4 OPEN HOLE 5 PLASTIC 4 OPEN HOLE 5 DLASTIC 2 GALVANIZED 3 CONCRETE 4 OPEN HOLE 5 OPLASTIC 24-25 1 OSTEEL 2 GALVANIZED 3 CONCRETE 4 OPEN HOLE 5 OPLASTIC 24-25 1 OSTEEL 2 GALVANIZED 3 CONCRETE 4 OPEN HOLE 5 OPLASTIC 5 OPLASTIC 4 OPEN HOLE 5 OPLASTIC	188 2 19 2 24 2 PUMPING 17-18 17-18 17-18 17-18 17-18	2'50' 2'50'	61 DEPTH SET AT FROM 010-13 24-20 LOCA AGRAM BELOW SHO	FEET TO MATERI TO V-17 CCA 22,25 30-33 80 TION OF V DISTANCES OF	IAL AND TYPE LEAD	ORD WENT GROUT PACKER ETC)
NQ z 20-23 1 25-28 1 25-28 1 20-33 1 20-33 1 20-34 2 20-35 2 20-35 1 20-35	b GAS G FRESH 3 SULPHUR 14 SALTY 4 MINERALS 6 GAS FRESH 3 SULPHUR 24 SALTY 6 GAS 17 FRESH 3 SULPHUR 24 SALTY 6 GAS FRESH 3 SULPHUR 24 SALTY 6 GAS FRESH 3 SULPHUR 24 MINERALS 6 GAS SALTY 6 GAS 10 FRESH 3 SULPHUR 34 SALTY 6 GAS 10 ETHOD 10 PUMPING RATE 25 ETHOD OF WATER LEVEL 25 WATER LEVEL	24-25 25-25 24-25 25-25 24-25 24-25 25-25 24	188 2 19 2 24 2 PUMPING 17-18 10 UMPING MINS 17-18 17-18 17-18 17-18 17-18 17-18 17-18 17-18	2 50 27-30	61 DEPTH SET AT FROM 010-13 24-20 LOCA AGRAM BELOW SHO	FEET TO MATERI TO 44-17 Cen 22-25 30-33 60 TION OF V	IAL AND TYPE LEAD	ORD WENT GROUT PACKER ETC)
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20-23 1 20-23 1 20-20 1 20-	b CAS FRESH 3 SULPHUR I SALTY 6 GAS FRESH 3 SULPHUR 24 FRESH 3 SULPHUR 24 FRESH 3 SULPHUR 24 FRESH 3 SULPHUR 24 FRESH 3 SULPHUR 23 FRESH 3 SULPHUR 24 FRESH 3 SULPHUR 24 MATER GAS 54 MINERALS FRESH 3 SULPHUR 24 MATER GAS 54 MINERALS ETHOD 10 PUMPING RATE 24 WATER LEVEL 25 24-24 15 WATER LEVEL 25 24-24 15 YMP TYPE 72-24 15 MINUTES FEET FEET FEET FEET YMP TYPE RECOMMENDEL 90MP 15 SALTY DEEP SETTING 16 ST I RECHARGE WELL 15 16	2 CALVANIZED 3 CONCRETE 4 OPEN HOLE 5 PLASTIC 4 OPEN HOLE 3 CONCRETE 4 OPEN HOLE 3 CONCRETE 4 OPEN HOLE 5 PLASTIC 24-25 1 3 CONCRETE 4 OPEN HOLE 5 PLASTIC 24-25 1 3 CONCRETE 4 OPEN HOLE 5 PLASTIC 24-25 1 2 GALVANIZED 3 CONCRETE 4 OPEN HOLE 5 PLASTIC 24-25 I 3 GONCRETE 4 DURATION OF 5 PLASTIC 24-25 I 5 PLASTIC 24-25 I 25 PLASTIC 26 S 26 I 26 ABANDONED, INS	188 19 24 PUMPING 13-14 13-14 13-14 13-14 13-14 13-14 100/15 13-31 13-32 13-33 13-34 13-34 13-34 13-34 13-34 13-34 13-34 13-34 100 of TEST 44-49 100 46-49 100 100 100 100 100 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 102 103 103 104 105 105 105 105 105 105 106 107 108 109 100 100	2 50 2 50 2 50 in dia Lot L DRILLERS REMAR DRILLERS REMAR DRILLERS REMAR	61 DEPTH SET AT FROM FROM CONTACT CONTACT ST CONTACT ST CONTACT CONTACT CONTACT CONTACT	FEET MATERI TO V-17 Сел 22,235 20-33 60 TION OF V VINU DISTANCES OF NORTH BY ARROW CD.	IAL AND TYPE LEAD	ORD MENT GROUT PACKER ETC) OUT . AND AND AND TO552
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ZO-23 1 20-23 1 20-25 1 20-	b CAS FRESH 3 SULPHUR I SALTY 6 GAS FRESH 3 SULPHUR 24 FRESH 3 SULPHUR 24 FRESH 3 SULPHUR 24 FRESH 3 SULPHUR 24 FRESH 3 SULPHUR 23 FRESH 3 SULPHUR 24 FRESH 3 SULPHUR 24 MATER GAS 54 MINERALS FRESH 3 SULPHUR 24 MATER GAS 54 MINERALS ETHOD 10 PUMPING RATE 24 WATER LEVEL 25 24-24 15 WATER LEVEL 25 24-24 15 YMP TYPE 72-24 15 MINUTES FEET FEET FEET FEET YMP TYPE RECOMMENDEL 90MP 15 SALTY DEEP SETTING 16 ST I RECHARGE WELL 15 16	Concerte Co	INCONTRACTOR	2 50 2 50 27-30 IN DIA LOT L LOT L DRIELERS REMARK DRIELERS REMARK DRIELERS REMARKS	61 DEPTH SET AT FROM FROM CONTACT CONTACT ST CONTACT ST CONTACT CONTACT CONTACT CONTACT	FEET MATERI TO V-17 Cen 22,235 30-33 60 TION OF V VW DISTANCES OF NORTH BY ARROW CONTROL SOFE	IAL AND TYPE LEAD	ORD MENT GROUT PACKER ETC) OUT . AND AND VX VY V V V V V V V V V V V V V
ZO-23 1 ZO-23 1 ZO-	b G GAS FRESH 3 SULPHUR I SALTY 6 GAS FRESH 3 SULPHUR 24 SALTY 6 GAS SALTY 6 GAS SALTY 6 GAS SALTY 6 GAS FRESH 3 SULPHUR 24 MAREALS 6 GAS FRESH 3 SULPHUR 24 MAREALS 6 GAS FRESH 3 SULPHUR 24 MAREALS 6 GAS SALTY 6 GAS FRESH 3 SULPHUR 34 GAS 3 SULPHUR 34 FRESH 3 SULPHUR 34 GAS 3 SULPHUR 34 FRESH 3 SULPHUR 34 FRESH 3 SULPHUR 34 CAS 7 SUNTO 24-22 COM 7 7 GAS COM <th>Concerte Concerte Co</th> <th>188 19 24 19 24 19 24 19 24 19 24 10 110 110 10 10 110 110 110 10 10 110 10 10 10 110 10 10 10 10 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 <tr< th=""><th>2 50 2 50 27-30 IN DIA LOT L DRILLERS REMAR</th><th>61 DEPTH SET AT FROM FROM CONTACT CONTACT ST CONTACT ST CONTACT CONTACT CONTACT CONTACT</th><th>FEET MATERI TO V-17 Cen 22,235 30-33 60 TION OF V VW DISTANCES OF NORTH BY ARROW CONTROL SOFE</th><th>IAL AND TYPE LEAD</th><th>ORD MENT GROUT PACKER ETC) OUT . AND AND VX VY V V V V V V V V V V V V V</th></tr<></th>	Concerte Co	188 19 24 19 24 19 24 19 24 19 24 10 110 110 10 10 110 110 110 10 10 110 10 10 10 110 10 10 10 10 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 <tr< th=""><th>2 50 2 50 27-30 IN DIA LOT L DRILLERS REMAR</th><th>61 DEPTH SET AT FROM FROM CONTACT CONTACT ST CONTACT ST CONTACT CONTACT CONTACT CONTACT</th><th>FEET MATERI TO V-17 Cen 22,235 30-33 60 TION OF V VW DISTANCES OF NORTH BY ARROW CONTROL SOFE</th><th>IAL AND TYPE LEAD</th><th>ORD MENT GROUT PACKER ETC) OUT . AND AND VX VY V V V V V V V V V V V V V</th></tr<>	2 50 2 50 27-30 IN DIA LOT L DRILLERS REMAR	61 DEPTH SET AT FROM FROM CONTACT CONTACT ST CONTACT ST CONTACT CONTACT CONTACT CONTACT	FEET MATERI TO V-17 Cen 22,235 30-33 60 TION OF V VW DISTANCES OF NORTH BY ARROW CONTROL SOFE	IAL AND TYPE LEAD	ORD MENT GROUT PACKER ETC) OUT . AND AND VX VY V V V V V V V V V V V V V

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Print only in space	ces provided. with a checkmark, where applicabl	e. [1]	15297	97		Con. C.O.N.	2 2 3 3
County or District		Township/Borough/City/To	own/Village		Con block tract su	urvey, etc. Lot	25 21
		West Carlet	on - Huntle	y	3		6 48-53
			Westbrook	Rd. Caro	Ontario	^{ed} 15 ay 12mon	
21	T i i i i	KOA IL) Northing		vation RC	Basin Code ii		iv i
1 2	M 10 12		24 25 26 OCK MATERIALS	(see instructi	ons)		47
General colour	Most common material	Other materials		General	description	Depti From	h – feet To
Brown	Sandy 6001	Stones		Dry		0	4
Brown	Sandy Clay	<u> </u>		Wet	<u>`</u> `	4	9
Gray	Sand & Gravel			Wet	•	9	12
-	Limestone	ł		Medi	m	12	75
Gray	Linescone						
				U.t.			
							1 1 1
31) <u> </u>	_ <u> _ </u>			_! [
32				54 Sizes of a	ppening ³¹⁻³³ Diam	neter 34-38 Length	75 80
Water found	TER RECORD 51 Inside Kind of water diam	Material Wall	Depth – feet	(Slot No.)		inches	feet
at – feet 10-13 1	inches	inches ¹ Galvanized ¹² ² Galvanized ¹²	From To 22		ind type	Depth at top of	i screen 30 41-44
24		2 Galvanized Galvanized Concrete					feet
2	☐ Salty _ Gas	5 Plastic	20-23	61	PLUGGING & SEA	ALING RECORD	
20-23	Tresh 4 Minerals	2 Galvanized		Depth set at -	Motorial and tw	be (Cement grout, ber	
25-28 ; [3 Open hole 5 Plastic	22.5 75	From 10-13 20-5		- Cement	(3)
	Salty Minerals Gas 24.25	1 Steel 26 2 Galvanized 3 3 Concrete 3	27.30	18-21			
	☐ Fresh 3 ☐ Sulphur ³⁴ ⁶⁰ 4 ☐ Minerals ☐ Salty ₆ ☐ Gas	Open hole Plastic		26-29	30-33 80		
Pumping test n	nethod 10 Pumping rate 11-14	Duration of pumping			CATION OF WELL	······································	
	Bailer 25 GPM		In diagra	m below show	distances of well fro	m road and lot lir	ıe.
Static level	Water levels during +1 Water levels during +1 22-24 15 minutes 30 minutes	Pumping 2 Recovery 45 minutes 60 minutes		north by arrow.			
TES	26-28 29-3		$ \rangle$		FH		
If flowing give		Water at end of test 42			0		
Recommended							
Shallow	pump setting 30 teet			- Car	deuco	· · · · · · · · · · · · · · · · · · ·	4
				I		1	
1 🙀 Water su	upply s 🗌 Abandoned, insufficient tion well s 🔲 Abandoned, poor quality	supply 🤋 🗋 Unfinished y 💦 📋 Replacement well		1	8191		ŧ.
3 🗌 Test hole	e 7 🗌 Abandoned (Other)		-	1	187×	1]
WATER USE	55-56			1	33'	1	
2 Domesti 2 Stock	6 🗌 Municipal	9 🔲 Not used 10 🗍 Other		1		1 1	
₀ ☐ Irrigation ₄ ☐ Industria		ng		1		1 -	ġ
1				l i		- ()	4
₁ □ Cable to ₂ □ Rotary (₃ □ Rotary ((conventional) 6 🗂 Boring	9 Driving 10 Digging 11 Other		1	of 159	10070	Ц
₃ ∐ Hotary (₄ ∏ Rotary ((air) ₈ [] Jetting					18278	1 .
Name of Well Con	ntractor	Well Contractor's Licence No.	> Data	58 Contraccto	59-62 D.	ate received	63-68
	Water Supply Ltd.	1558	source) 58	JAN 0 8 1	998
	490 Stittsville,Ont	ario K2S 126	Date of inspecti	on	Inspector		
Name of Well Ted	hnician	Well lechnician's Licence No.	Remarks				\sim
S. Mille Signature of Tech	nician/Contractor	TOO97 Submission date	MINISTR			`	27
	man	day 16no 12 yr 97] ≥			0506 (07/94) F	- ront Form
2 - MINIS	STRY OF KNVIRONMEN	NT & ENERGY CO	PY '				

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rint only in space ark correct box v	es provided. with a checkmark, where applic	able. 11	1530340		
County or District	<u> </u>	Township/Borough/City/	Town/Village	Con block tract sur	vey, etc. Lot 25-27
· · · · ·	3 .	Address West Ca	rleton - Huntley	Date	6
		154 Colonnade	Road Nopean Ont	RC Basin Code ii	21 ay 1.0 month 99/ea
2 2		OF OVERBURDEN AND BED		so 31	4
General colour	Most common material	Of OVERBORDEN AND DED Other materials		eneral description	Depth – feet From To
Broom	Sand	Boulders & G	ravel		0 11'6
Brown					
31					
			43	4 65 izes of opening ³¹⁻³³ Diame	ter ³⁴⁻³⁸ Length ³
Water found	Kind of water diam	e Wall Material thickness	Depth - feet	Slot No.)	2 inches 6'6" 1
	3 Sulphur 14 inche Fresh 4 Minerals 10 Salty 6 Gas 10	s inches		aterial and type	Depth at top of screen
15-18 1	Fresh ³ Sulphur ¹⁹	 Concrete Open hole Plastic 		PLUGGING & SEA	
	Salty 6 Gas		20-23	Annular space	Abandonment
2	Salty 6 Gas Fresh 3 Sulphur 29	Concrete Den hole Dentitic	Fro	Material and type	e (Cement grout, bentonite, e
2 🗆	Salty ⁴ Minerals 24- 8 Gas	2 🗌 Galvanized	27-30 11		
30-33 1 [] 2 []	Fresh ³ Culphur ³⁴ ⁶⁰ 4 Minerals Salty ₆ Gas	3 Concrete 4 Open hole 5 Plastic	2		Jg
Pumping test m	ethod ¹⁰ Pumping rate	Duration of pumping] [LOCATION OF WELL	
	Vater level 25 Water levels during	Hours Mins Hours Mins Dumping 2 Recovery	In diagram below Indicate north by	show distances of well from	n road and lot line.
	22-24 15 minutes 26-28 30 minutes		1		
If flowing give ra	feet feet	feet feet feet feet 42			
If flowing give ra	GPM	feet Clear Cloudy 43-45 Recommended 40-49			
-	pump type Recommended pump setting	pump rate GPM			
50-53					
FINAL STATUS	pply 5 C Abandoned, insuffic ion well 6 C Abandoned, poor q				
 Test hole Recharge 	e well 8 Dewatering				
WATER USE	55-56 5 □ Commercial	Ot used			
 2 Stock 3 Irrigation 4 Industrial 		10 🗌 Other			
_			-11		
1 🗌 Cable too	ol ⁵ Air percussion conventional) ⁶ A Boring	9 📑 Driving 10 🔲 Digging			194767
3 🗌 Rotary (r 4 🔲 Rotary (a	everse) 7 🗌 Diamond	11 🗌 Other			T24101
Name of Well Cont	ractor	Well Contractor's Licence N	0. Data 58 Cor source		e received 63-8
Acapital	Whiter Supply Ltd.	1558	Date of inspection		DEC 0 8 1998
1		Ontario K25 146	S		
Name of Well lech	incian				
S. MILLE Signature of Techn	r	TOO97	[≌]	ſ	SS. ES9

Ministry of Environme and Energy	ent		1	The Ontario Wate WATER WE	ELL RECOR
int only in space ark correct box	es provided. with a checkmark, where applic	cable. $11 \\ 1 - 2$	1530341	a see in it as	Con. <u> CON</u> <u> 22</u> 23
ounty or District		Township/Borough/City/T	own/Village	Con block tract s	urvey, etc. Lot 2
Obberro Ca	rloton	West Carlet Address	on - Huntley	3 Date	6
		54 Colonnade	Rd Nepean Ontari	o K2R 7J5	ed 21day 10 month98 y
1	T L		RC Elevation	RC Basin Code ii 30 31 31	
	LOG	OF OVERBURDEN AND BED	ROCK MATERIALS (see ins	tructions)	Depth – fee
General colour	Most common material	Other materials	Ge	eneral description	From To
Brown	Sand	Boulders &	Gravel		- 0 11
			. <u> </u>		
2					
10 14	ER RECORD 51			zes of opening ³¹⁻³³ Dian lot No.)	neter ^{34–38} Length
Vater found t - feet	Kind of water diam inche	Material thickness	From To		2 inches 6 ¹ 6" Depth at top of screer
10-13 1 🗌 2 🗍		I-11 1 🗋 Steel 12 2 🖸 Galvanized	13-16 OS	aterial and type	Depth at top of screer 41-44
15-18 1	Fresh ³ Sulphur ¹⁹	Concrete Open hole Second Plastic	0 11'6	PLUGGING & SE	
	Salty 6 Gas	-18 1 🗌 Steel 19 2 🗌 Galvanized	20-23	Annular space	
	Salty 6 Gas	 Concrete Open hole Plastic 	From	Material and ty	pe (Cement grout, bentonite,
] Salty ⁴ ∐ Minerals 24	-25 1 🗌 Steel 28 2 🗋 Galvanized	27-30		
30-33 1 🗌 2 🗆] Fresh ³ 🗌 Sulphur ³⁴ ⁶⁰ 4 🗍 Minerals] Salty ₈ 🗍 Gas	 Concrete Open hole Plastic 	3.	D ₃₃ Hole Pl	ug
Pumping test m		11-14 Duration of pumping			
1 Pump 2 [Bailer	GPM Hours Mins	In diagram below	LOCATION OF WELL show distances of well fro	om road and lot line.
Static level e	Water levels Water levels Water levels end of pumping 22-24 15 minutes 28-28 30 minu	I Pumping 2 Recovery tes 28-31 45 minutes 32-34 60 minutes 35-37	Indicate north by a	arrow.	
		29-31 32-34 35-37 feet feet feet			
feet If flowing give rate Recommended	ate 38-41 Pump intake set at	Water at end of test 42			
Recommended	GPM I pump type Recommended pump setting	feet Clear Cloudy 43-45 Recommended 48-49 pump rate 48-49			
Shallow		feet GPM			
FINAL STATU		cient supply 9 🛛 Unfinished			
 Water sup Observati Test hole 	ion well 6 Abandoned, poor o 7 Abandoned (Other	uality 1º 🛛 Replacement well			
4 🗄 Recharge					
WATER USE	c ⁵ ☐ Commercial	I Not used			
2 ☐ Stock 3 ☐ Irrigation 4 ☐ Industrial		10 🗌 Other			
_			1		
D Cable too		 9 Driving 10 Digging 			104770
3 🗌 Rotary (c 3 🔲 Rotary (a	reverse) 7 🗌 Diamond	11 🗌 Other			194770
		Well Contractor's Licence No	Data 58 Con		ate received 63-
Name of Well Cont		1558	Source	558	DEC 0 8 1998
, 1441 000	Water Supply Ltd.		U Date of inspection	Inspector	
P.O. BO Name of Well Tech	490 Stittsville, mician	Ontario K25 146 Well Technician's Licence No			000 50
S. MILLS	ician/Contractor	TOO97 Submission date			CSS. ES
	The war	day 23mo 10 yr 98	3 🗂		0506 (07/94) Front

Ontario Ministry of Environm and Ener	nent		The	e Ontario Water Resources Act WATER WELL RECORD
Print only in spa Mark correct bo	ices provided. x with a checkmark, where applica	able. 11	1530342	$\begin{array}{c c} \text{Municipality} & \text{Con.} \\ \hline 1 & 5 & 9 & 5 \\ \hline 10 & 14 & 15 & 2 & 23 & 24 \\ \hline 15 & 2 & 23 & 24 \\ \hline \end{array}$
County or District		Township/Borough/City/To		Con block tract survey, etc. Lot 25-27 3 6
	1 b	Address	on - Huntley	48-53
		54 Colonnade J	RC Elevation RC	
21 1	т М 10	DF OVERBURDEN AND BEDR		31 47
General colour	LOG (Most common material	Of OVERBORDEN AND BEDR		al description Depth - feet From To
	Cond.	Boulders & G	ravel	0 11'6'
Brown	Sand			
31		<u> </u>		
32				
41 WA	ATER RECORD 51 Inside		RECORD Sizes o Depth - feet Z (Slot No	
Water found at - feet	Kind of water diam	Material thickness inches	From To	al and type 2 inches 616 feet feet 1 and type 0 peth at top of screen 1 of the
10-13 1 2	□ Fresh ³ □ Sulphur ¹⁴ 4 □ Minerals □ Salty 6 □ Gas	2 Galvanized 3 Concrete	្រាស	vel Packed 5 feet
	□ Fresh ³ □ Sulphur ¹⁹ 4 □ Minerals 5 Salty 6 □ Gas 17-1	Open hole Second Plastic	0 11'6" 61	PLUGGING & SEALING RECORD
20-23 1 2	□ Fresh ³ □ Sulphur ²⁴ ⁴ □ Minerals □ Salty ₆ □ Gas	2 Galvanized 3 Concrete	Depth set a	Annular space Abandonment at - feet To Material and type (Cement grout, bentonite, etc.)
25-28 1	Eresh 3 Sulphur 29	4 Open hole 5 Plastic	27-30 From 10-13 27-30 119 119 119 119 119 119 119 119 119 119	14-17
	Carter 4 □ Minerals Carter 4 □ Minerals Carter 4 □ Gas Carter 4 □ Sulphur A □ Sulphur A □ Minerals	2 Galvanized 3 Concrete	27-50	<u>Q</u>
2	□ Salty 6 □ Gas	4 Open hole 5 Plastic		
71 Pumping test	method - Fumping rate	-14 Duration of pumping 17-18 PM Hours Mins		OCATION OF WELL
Chatia Javal	Mater Joural 25	Pumping 2 Recovery	In diagram below sho Indicate north by arrow	w distances of well from road and lot line. w.
19-21 S	22-24 15 minutes 30 minute 28-28	25-31 45 minutes 60 minutes 32-34 35-37		
If flowing give		feet feet feet Water at end of test 42		
Recommende		feet Clear Cloudy I ³⁻⁴⁵ Recommended 48-49		
□ Shallow	Deep	pump rate feet GPM		
FINAL STATU	US OF WELL 54			
 Water st 2 Dobserva 3 Test hol 	supply 5 Abandoned, insufficient ation well 6 Abandoned, poor qu	ent supply ⁹ 🔲 Unfinished ality 🛛 🕫 🗌 Replacement well		
4 📕 Recharg				
WATER USE	55-56 stic ⁵ Commercial	🤋 🗌 Not used		
2 ☐ Stock 3 ☐ Irrigatio 4 ☐ Industri		oning		
۱ 🗌 Cablet		 Driving Digging 		194768
3 □ Rotary 4 □ Rotary	(reverse) 7 Diamond	11 🗌 Other		134/00
Name of Well Co		Well Contractor's Licence No.	Data 58 Contract	
Capita	l Water Supply Ltd.	1558	Source Date of inspection	558 DEC 0 3 1998
P.O. R	or 490 Stittsville,	Ontario K2S 1A6 Well lechnician's Licence No.		
Name of Well Tec		T0097		CSS. ES9
	Inician/Contractory	Submission date day23 mo 10 yr 98	NIW	0505. L.39

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ounty or District		Тоw	nship/Borough/City/			Con block trac	t survey, etc. Lo	-
Others Cor		Addr	West (- Huntley	Date	e e e e e e e e e e e e e e e e e e e	<u>6</u> 48-53
1		54	Colonnade Northing	Rđ Neper	Elevation	O K2B 7J5	pleted 21 day 10 m	iv
2	т м 10 LC	IZ I7				³⁰ ³¹		41
General colour	Most common material		Other materials		Ge	neral description	From	epth – feet To
Brown	Sand	1	Boulders &	Gravel			C	11
								_
						······································		
1						<u>,,,,,,,,,,,,</u>		
10 14 1			IG & OPEN HOL			es of opening 31-33 ot No.)	65 Diameter ^{34–38} Ler	ngth ³⁹
/ater found t – feet	Kind of water d	iside am Material iches	inches	Depth – feet From		terial and type	2 inches 6 Depth at to	p of screen
2		10-11 1 Concre	te		N N	cavel Packed		5 feet
	Fresh ³ Sulphur ¹⁹ 4 Minerals Salty ₆ Gas	4		0]	120-26 B	PLUGGING &	SEALING RECO	
	Fresh ³ Sulphur ²⁴ 4 Minerals Salty 6 Gas	2 🗌 Galvan 3 🗌 Concre 4 🗌 Open h	te		Depth	set at - feet Material ar	nd type (Cement grout,	
25-28 1 2 2	Fresh ³ Sulphur ²⁹ 4 Minerals 6 Gas	5 🗋 Plastic 24-25 1 🗋 Steel	26		27-30		1 Packed	
	Fresh ³ Sulphur ³⁴ ⁶⁰	2 Galvar 3 Concre 4 Open h	ete nole		3		Plug	
Pumping test met	Salty 6 Gas	5 Delastic	foumping	↓↓ ┓┌ ─ ────	J L			
l ⊧ □ Pump 2 □ Wa	Bailer	GPM	Pours Mins			show distances of wel		t line.
Static level end	d of pumping Water levels dur	inutes 45 minute	······································	Ina 	licate north by a	arrow.		
5 feet	feet feet	feet Water at e	feet feet					
Teet If flowing give rat	GPM	feet C 43-45 Recomme	iear 🗌 Cloudy	41				
	Dump type Recommended pump setting	feet	naca					
INAL STATUS	OF WELL 54							
 Water supp Observation Test hole 	oly 5 Abandoned, ins on well 6 Abandoned, po 7 Abandoned (Ot	or quality 10 🗌	Unfinished Replacement well					
4 🗷 Recharge v								
VATER USE 1 Domestic 2 Stock	55-56 Commercial Municipal	-	Not used Other					
 3 Irrigation 4 Industrial 	7 ⊡ Public supply 8 ⊡ Cooling & air c							
	5 Air percussion	 ۱ ا	Driving	-11				
Cable tool	onventional) 6 🗍 Boring overse) 7 🗌 Diamond	10	Digging Other				194	769
4 ☐ Rotary (air X					58 Contr	racctor 59-62	2 Date received	63-68
Name of Well Contra			Contractor's Licence N			Inspector		1998
	Water Supply Ltd		K2S <u>1A6</u> echnician's Licence N		nspection			
Name of Weil Techn				o.	•		CSS.	ES9
Simelure of Technic	Cian/Contractor	A Subm	097 ission date					

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🗑 Ontario	Ministry of the Environment		7	he Ontario WATEI		ources Act RECORD
Print only in spaces provide Mark correct box with a che		11	1531132			
County or District		Township/Borough/City	-	Con block tr	act survey, etc.	
Ottava Carlet	on	West Carlet	on - Huntley	3		6
Owner's surname	⁴⁷ First Name	Address			ate	45.25
Pri-Tec Const	ruction Ltd.	P.O. Box 130	90 Kanata, Ontario	<u>K2K 1X3</u>	ompleted 5 day	6month Ofer
21	Zone Easting $\begin{bmatrix} U \\ T \\ M \end{bmatrix}$		RC Elevation RC 1 24 25 25 32	Basin Code		
	LOG OF OVE	RBURDEN AND BED	ROCK MATERIALS (see instruc	tions)		

				Depth - feet		
General colour	Most common material	Other materials	General description	From	То	
Brown	Sandy & Gravel		Loose	o	3	
Brown	Clay		Packed	3	15	
Gray	Sandy_Clay	Stones	Loose	15	27	
Gray	Limestone		Medium Hard	27	33	
Gray	Limestone		Badley Broken	33	40	
Gray	Limestone		Medium Hard	40	75	

10	14 13 21			. Na		10									
41 W	ATER RECORD		51	CASING & OF	PEN HOLE	RECORD		Г		es of opening	31-33	Diameter	34-38	Length	39-40
Water found at - feet	Kind of water		Inside diam	Material	Wall thickness	Depth		CDEEN		ot No.)		i	inches		feet
10-13		L	inches		inches	From	То	Ĭ	Ë Ma	terial and type		1	Depth	at top of sc	reen 30
33–40 15-18	1 Fresh 3 Sulphur 14 2 Salty 6 Gas		6 1/4	Gaivanized Gaivanized Gaivanized Givanized Givanize	.188	0	31 ¹⁶ .	Ű						•	eet
	□ Salty 6 □ Gas	L		5 📋 Plastic				6	1	PLUG	GING &	SEALING	REC	ORD	
20-23	· · L Gas		17-18	1 🗆 Steel 19			20-23			🗆 Annula	space		🗌 Aba	ndonment	
23-23	¹ Fresh ⁴ Minerals			² Galvanized ³ Concrete				E	Depth	set at - feet	Matarial	and type (Ce	monta	rout bootoo	ite etc.)
	² Salty ₆ Gas		6	4 Se Open hole		31	75		From	То	Material	anu type (Ce	anient y	out, benton	iile, eic.)
25-28	1 🗌 Fresh 3 🔲 Sulphur 29		Ŭ.	5 🗖 Plastic				Г	10-1						
	² □ Satty ₆ □ Gas	-	24-25	1 Steel 2 C Galvanized			27-30	┢	30	1 22-25	Grout	;ed - 1	Cein	ent (5	;)
30-33	¹ □ Fresh ³ □ Sulphur ³⁴ ² □ Salty ₆ □ Gas	60		Concrete Copen hole C				╞	26-2	9 30-33	80				

	11-14 Duration of pumping	
Pumping test method ¹⁰ Pumping rate 71 Pumping 2 Bailer	11-14 Duration of pumping 15-16 17-18 GPM 1 Hours Mins	LOCATION OF WELL
Static level Water level 25 Water levels during	¹ Pumping ² Recovery	In diagram below show distances of well from road and lot line Indicate north by arrow.
19:21 22:24 15 minutes 25:28 30 minutes 30 minutes 15 13:00 25 feet 70 feet 70 If flowing give rate 38:41 Pump intake set at GPM 90 minutes	Ites 45 minutes 60 minutes 29:31 32:34 60 minutes	
Z 15"140" 25 feet 70 feet 70	feet 50 feet 25 feet	
If flowing give rate 38-41 Pump intake set at	Water at end of test 42	
GPM GPM	feet Clear Cloudy	
Recommended pump type Recommended pump setting	A feet S GPM	Berten E
50-53		Car 5 cl
FINAL STATUS OF WELL 54		
1 Water supply 5 Abandoned, insuffie 2 Observation well 6 Abandoned, poor of 3 Test hole 7 Abandoned (Other) 4 Recharge well 8 Dewatering	uality 10 Replacement well	Cordence E Lordence E Roet Roe Rhies No Building
WATER USE 55-56	- 7 N	5 NO
1 G Domestic 5 Commercial 2 Stock 6 Municipal 3 Irrigation 7 Public supply 4 Industrial 8 Cooling & air condition	 Oot use Other tioning 	P Building
METHOD OF CONSTRUCTION 57		
1 Cable tool 5 Air percussion 2 Rotary (conventional) 6 Boring 3 Rotary (reverse) 7 Diamond 4 Rotary (ar) 8 Jetting	 Driving Digging Other 	208554
Name of Well Contractor Capital Water Supply Ltd.	Well Contractor's Licence No.	Data 58 Contractor 59-62 Date received 63-68 60 JUN 2 0 2000
Address		Date of inspection Inspector
P.O. Box 490 Ktittsville	Ontario K2S 1A6	
Name of Well Technician	Well Technician's Licence No.	Remarks
S. Miller	T0097	Remarks CSS.ESO
Signature of Technician/Contractor	Submission date	CSS.ES0
(Allakuma h	day 6 mo 4 yr 90	
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Ministry of the

Environment

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1532398

11

County or District	t Carleton		/Borough/Cir t Carle	ty/Town/Villag	_{pe} Hunt	ley	Con block	tract survey,	etc. Lot 6	25-27
		Address 357 W	illiam	Mooney	Rd.,	Carp ON.	KOA 1LO	Date completed	10	01 48-53
21	T L		Northing		RC	Elevation RC	Basin Code		day mo	iv iv
1 2	· · · · · · · · · · · · · · · · · · ·	OF OVERBURDEN				S (see instructi	ions)		- <u></u>	47
General colour	Most common material	1	er materials			-	I description		Depth -	- feet To
Brown	sand							5.00 C	0	8
Brown	sandy clay	stones					. <u>, , , , , , , , , , , , , , , , , , ,</u>		8	16
Grey	limestone								16	125
	Note: Casi	ing was left	12" al	ooce gr	ound	level at	time of	drilling.	•	
	<u> </u>								<u> </u>	
31 32					└ <u></u> 		<u>. . .</u>			
			PEN HOLE			Sizes of		-33 Diameter 3	4-38 Length	75 80
Water found at - feet	Kind of water Insid	Material	Wall thickness inches	Depth From	- feet To	Stot No.		inch	nes	feet
	3 [Sulphur14]	1 A 1 Steel 12 2 Galvanized	-188	0	21 4	Material	and type	D	epth at top of :	41-44
117 ⁵⁻¹⁸ IN	OT est 4 Minerals	3 Concrete 4 Open hole 5 Plastic					2140.000			feet
	☐ Gas 17- ☐ Fresh 3 □ Sulphur 24				20-	23	Annular space	& SEALING R	Abandonmen	nt
25.00	4 □ Minerals 3 Salty 6 □ Gas 6	3 Concrete 4 Open hole 5 Plastic		21'6"	125		To Mater	ial and type (Ceme	_	
1 11	□ Fresh 3 □ Suprur 29 4 □ Minerals 24 □ Salty 6 □ Gas				27-	30 21 6	0 ¹⁴⁻¹⁷ Gro	uted-cem	ent (3	3)
	☐ Fresh ³ ☐ Sulphur ³⁴ ⁶⁰ 4 ☐ Minerais ☐ Salty 6 □ Gas	3 Concrete 4 Open hole 5 Plastic				26-29	30-33 80			
Pumping test m		11-14 Duration of pumpli	L	·!	1		RRR	10-1 - 11 - 1		
71 1 2 Pump 2	□ Bailer 5 G	PM Hours		41	In diag	LOC gram below show	CATION OF V v distances of		d and lot li	ne.
	Water levels during and of pumping 22-24 15 minutes 26-28 30 minute		60 minutes		, Indica	te north by arrow	v.	A		
28 ¹ 4 ¹¹ 19-21 28 ¹ 4 ¹¹ feet If flowing give r.	60 feet 115 90	29-31 32-34 feet 75 feet	60 feet					•		
If flowing give r	88.17 ·····	Water at end of test			I,	1.55	- 0		/))
Recommended p		43-45 Recommended pump rate	46-49	11-4		<u>Jilliam</u>	Moone	4 Kd		
50-53		feet	GPM	<u> </u>		1		ł		
FINAL STATU		ent supply ⁹ 🗌 Unfinish	ed	7 8		1	10'7' N 7	ا ایور		
 Water sup Observation Test hole Recharge 	7 Abandoned (Other)			12			Y X			
	55-56					1				
1 Domestic		9 □ Not use 10 □ Other				1	~ ~ ~	•		
3 🗌 Irrigation 4 🗋 Industrial	7 Public supply 8 Cooling & air condition	oning					35 1	1 1		
	CONSTRUCTION 57							1		
1 Cable tool 2 Rotary (co	onventional) 6 🗌 Boring	⁹ Driving ¹⁰ Digging								
³ ⊟ Rotary (re 4 ⊟ Rotary (ai		11 🗌 Other							2302	271
Name of Well Contr	ractor	Well Contractor	r's Licence No			58 Contractor	5	9-62 Date received		63-68 80
Capital W	ater Supply Ltd.	1558			ce of inspect	15	<u>5.8</u>	NOV 2	27 200	ות
Box 490,	Stittsville, ON/ R									
Name of Well Techr S., Mill		Well Techniciar TOO97	n's Licence No		arks				CSS.E	S1
Signature of Technic	cian/Contractor	Submission dat day S mo		. All Sinni - Sinni - Sinni						
anim	ncl-	day mo		┘└┛╵						

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<u> </u>	tario	Ministry of the Environm	ent		· · · · · · · ·				7		ario Water TER WE		
Print only in spa Mark correct bo			re applica	ble.	11 1 2		1	5324	402			Con.	22 23 2
County or Distric	t.			To	wnship/Boroug	gh/City/To	own/Villa	le .	····	Con	block tract sur	vey, etc. Lo	t 25-27
	Carleton					Carle	ton ·	- Hintl	ey	3			6
Owner's surnam Gracey	Construc		irst Name		dress 11 Manic	on Ro	പ്പെട്ടും	arn. O	ntaric	KOA 1L	Date complete	^{id} 23day10 m	48-53
21	***	U T		Easting							Code ii		
			LOG O	F OVERBU	RDEN AND	BEDRO		TERIALS (see instru				47
General colour	Most o	ommon mate	rial		Other mate	rials			Ger	neral descriptio	on	Depti From	n - feet To
Brown	SAn	d & Gra	vel									0	6
Gray		estone											
GLAY	DIM	escore						·				6	75
								-					
	ļ												
	}							·					
31								11111					
32												· · ! ·	
		21	51		& OPEN H	OLE RE	CORD		54	s of opening	31-33 Diamet	er 34-38 Lengt	h 39-40
Water found at - feet	Kind of wa	iter	Inside diam	Materia	Wall		Depth		1001	t No.)		inches	feet
10-13 1 [Sulphur 14 Minerals	inches	1 🗶 Steel	¹² • 188	IS	From	™ 22.55		erial and type	I	Depth at top of	
15.10	TTESTR	ges		2 Galvani 3 Concret	zed e		-		S				feet
11		Sulphur 19 Minerals		4 □ Open he 5 □ Plastic					61	PLUGG	NG & SEALIN	G RECORD	
20-23 1	Eresh 3 🗆 S	Sulphur 24	17-18	1 🔲 Steel 2 🔲 Galvani	19 zed			20-23		😰 Annular s		Abandonme	ənt
	Salty 6 □ (Vinerals Gas	6	3 Concret 4 🗶 Open ho		2	2.5	9 5	From	set at - feet To	Maferial and type (Cement grout, be	ntonite, etc.)
	JFlesali 4 □ I	Sulphur 29 Vinerals	24-25	5 D Plastic	26			27:30	21 ¹⁰⁻¹³	<u> </u>	routed -	Cement	(3)
20.93		Gas Sulphur ³⁴ ⁶⁰		2 Galvani: 3 Concret	e				18-21				
2] Salty 6 □ (Vinerals Gas		4 □ Open ho 5 □ Plastic	ble				26-29	30-33 80)		
Pumping test m	nethod 10	Pumping rate	11-1		pumping	r					·		
71 1 1 Pump 2	🗆 Bailer		25 GPN		15-16 1 Hours M	17-18 Mins	, IN						line
	nd of pumping	Water levels	during 1	X Pumping	2 🗌 Reco		*	In dagrar Indicate n	n below s north by a	now distance rrow.	es of well from	road and lot	ine.
19-21 19-21 <t< td=""><td>22-24</td><td>15 minutes 26-28</td><td>30 minutes</td><td>45 minutes</td><td>60 minute</td><td>es 35-37</td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	22-24	15 minutes 26-28	30 minutes	45 minutes	60 minute	es 35-37	-						
2 4'2 Teet	20 feet	70 feet	50 fe		eet 20	feet							
If flowing give ra	ate ³⁸⁻⁴¹ GPM	Pump intake set	at fe	Water at end	d of test	42 Jahu	(Lard	eve	5			

Z 4 2 feet 20 feet		50 feet	20 feet				
If flowing give rate GPI	Pump intake set at	Water at end of tes	st ⁴²	1	Jevco		
GPI GPI		Clear	Cloudy	<u> </u>	JEVED		
Recommended pump type	Recommended * 43-45	Recommended	46-49				
🗆 Shallow 🕱 Deep	pump setting 50 feet	pump rate	5 GPM	1	# 142	1	
50-53				1		1	
FINAL STATUS OF WE	LL 54			,	·	, I	· · · ·
Water supply Observation well Observation well Observation Test hole Echarge well	 Abandoned, insufficient supp Abandoned, poor quality Abandoned (Other) Dewatering 	⁹ □ Unfinish ¹⁰ □ Replace				er la cardena	
WATER USE	55-56						
Domestic	5 🗌 Commercial	9 🗆 Not use				1050	
2 🖸 Stock	6 🔲 Municipal	10 🗌 Other		1			
3 🛄 Imigation	7 🔲 Public supply			1 7	•		-
4 🔲 Industrial	8 Cooling & air conditioning		·				
METHOD OF CONSTRU	JCTION 57					-Ac-	
1 🗆 Cable tool	5 😰 Air percussion	⁹ 🗌 Driving		1 - A			
² D Rotary (conventional)	6 🗍 Boring	10 Digging					
3 🔲 Rotary (reverse)	7 Diamond	11 🗌 Other				000	005
⁴ x⊡ Rotary (air)	⁸ 🔲 Jetting					2380	003
					•	· •	
Name of Well Contractor		Well Contractor	r's Licence No.	> Data	58 Contractor	59-62 Date received	63-68 80
Comital Mator		1558			155	S NOV 2.8.70	M I
Capital Water	Suppry reg.	1008		Date of inspection			
P.O. Box 490	Stittsville, Ont	ario K2S	5 1 A6	IS Sale of hispecia			
Name of Well Technician		Well Techniciar	n's Licence No.				
S. Miller	1	T0097					
Signature of Technician/Contract	lor	Submission dat	te	1 ¥		(1945) k	651
thrana	1	day 24 mol	0 01	E			
Und yo over Ca	N	judy ==== mo=	. yr UL				

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• •	aces provided. ox with a checkmark, where	ent e applicable.	11 1 2	1	5327	'57			_1 22
County or Distri	ct		Township/Borough/C	•	-		Con block tract surve	ey, etc. Lo	_
Ottawa (Owner's suman	ALL	st Name	West Carl	eton -	Huntley	r	3 Date		6
Gracey (Construction			d. R.F			O KOA 1LO ^{omplete}	9 _{day} 4 _n	nonttP2
21		one Easting			RC Ele	vation RC	Basin Code ii		
	1	LOG OF OV	ERBURDEN AND BE		ATERIALS (ons)	Dont	
General colour	Most common mater	ial	Other materials	; 		General	description	From	h - feet To
Brown &	red Sand					<u> </u>		0	13
Gray	Sand & g	ravel						13	16
Gray	Limestor	ne						16	60
									<u> </u>
									<u> </u>
									<u> </u>
· · ·									<u> </u>
·····	1		sing was left		above o	ground le	evel		
31		at	time of drill	ing		<u></u>			
Water found at - feet 10-13 1 2 10-13 1 2 2 1 2 1 1 2 1 1 2 1 1 1 2 1	I4 15 21 ER RECORD 21 Kind of water Image: Im	Inside diam inches 5 10/4 1x 2 1 2 1 2 1 5 1 17-18 1 1	ASING & OPEN HOL Material Wall thickness Steel ¹² Galvanized Concrete Open hole Plastic ¹⁹	Dep	th - feet To 22:15			inches Depth at top	of screen 41-4 feet
11	□ Fresh 3 □ Sulphur 24 □ Satty 6 □ Gas	3] Galvanized] Concrete] Open hole	22.5	60	Depth set at From			
25-28 1	□ Fresh ³ □ Sulphur ²⁹ ⁴ □ Minerals ⁶ □ Gas] Open hole] Plastic] Steel ²⁶		27-30	21.5	0 Grouted - (Cement	(4)
30-33 1	□ Fresh ³ □ Sulphur ³⁴ ⁶⁰	ı ا ا] Galvanized] Concrete] Open hole			18-21	22-25	<u></u>	
2	□ Salty 6 □ Gas	5] Plastic						
71 Pumping test		11-14 D	uration of pumping 15-16 17-18 Hours Mins			LOC	ATION OF WELL		
Static level	Water level 25 end of pumping Water levels		umping 2 🗌 Recover			m below show horth by arrow	v distances of well from	road and lot	line.
			5 minutes 32-34 60 minutes 35-	37		~			
Side and a street of the stree	25 feet 55 feet	40 feet	40 feet 25 feet			T	arp Rd ard eved Ind. Port		┣
Recommended	GPM	feet 43-45	Clear Cloudy Recommended	49			-devico		
	Deep pump setting		pump rate 5 GP	u			Traix		
50-53							Pas		5
FINAL STAT		, insufficient supply	y ⁹ Unfinished ¹⁰ Replacement well			\mathbf{I}			Rd
 ² Observa ³ Test hole ⁴ Recharge 	e ⁷ 🗌 Abandoned	(Other)				<u> </u>	Cardenco		8
WATER USE						i i	i i		No.
1 😭 Domesti 2 🗋 Stock	c 5 🗆 Commercial 6 🗔 Municipal		9 🗌 Not use 10 🔲 Other			· · · · · · · · · · · · · · · · · · ·	11055 1		Richardson
3 🗌 Irrigation 4 🔲 Industria						16	DP" Non SI		12
	CONSTRUCTION 57		0 - - · ·			1.	Dentiess vo Building well of sude		14
 Cable to Rotary (Rotary (conventional) ⁶ Diamond	on	 ⁹ Driving ¹⁰ Digging ¹¹ Other 			ł	NOT YOUR		
⁴ Rotary (air) ⁸ 🤤 Jetting							238	136
Name of Well Cor			Well Contractor's Licence N	o.		58 Contractor	59-62 Date rec	_	63-6
Capita	Water Supply L	td.	1558	- 8 _{Da}	te of inspection		158 MA	1062	002
P.O. B			rio K2S1A6	RE				`	
	hnician		Mall Technicicals Lines a		marks	· · · · · · · · · · · · · · · · · · ·			
Name of Well Tec			Well Technician's Licence N T0097		marks		1	CSS	

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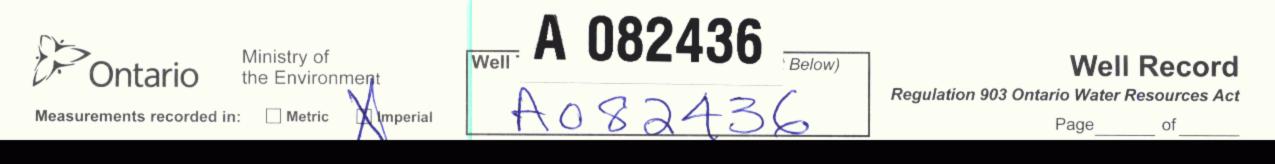
0506 (07/00) Front Form 9

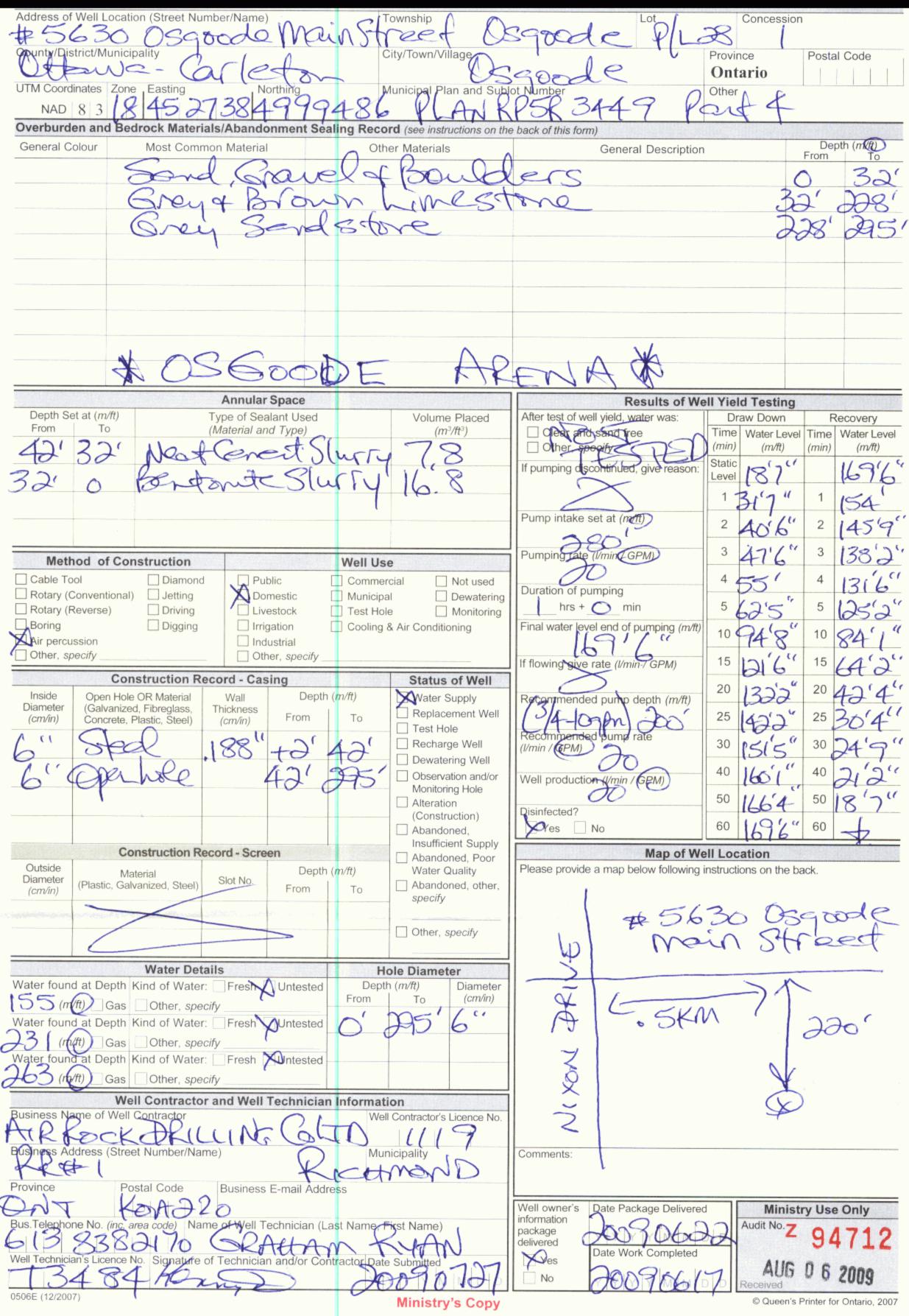
🗑 Or	ntaric	M th	inistry of e Environm		A 03		number below)	Reg	ulation 903	Ontario	Well F	Record ources Act
All SectioQuestion	n the Prov i ns must b s regarding	i nce of e comp a comp	f Ontario o pleted in ful leting this a	nly. This docum I to avoid delay application can	s in processir be directed to	nanent legal ng. Further in o the Water V	structions and	d explanati	ons are ava	ulable or	nce. h the back o	of f this form.
 Please pr 	rint clearly	in blue	or black in	ported to 1/10 k only. on of Well Infe		MUN	CC	N NC	linistry Use	Only	LOT	
First Name Cold Haven County/District/	n Consti	ructi	Last Name on	ownship/City/Tov	Ma B	ox 72059		al Code	Tele	phone N	umber (inclu	de area code)
)ttawa Ca n Address of Well)ttawa Ca n	Location (C	ounty/E	District/Munic	Kanat Sipality)	То	wnship	ntario K2K eton - Hu	2P4 Intley	Lot	6	8627 Concession	3
R#/Street Nur Iescar Lai SPS Reading	nber/Name ne NAD	Zone			thing	City/Town/Villa Car Unit Make/Mo	p	of Operati	on: 🗌 Und	ifferentiate	La Completion of the second	
-og of Over General Colour	8 3 burden ar Most co			96 50 erials (see ins Other M		Garmin	Genera	I Descriptio		erentiated,	Depth	Metres
brown Brown	S S	and	Gravel)ry let			From 0 1,21	To 1.21 1.82
Brown Gray	С	lay	& Boulde	TS			1	oose			1.82 9.14	9.14 10.66
Gray		imest		· · · · · · · · · · · · · · · · · · ·							10,66	19.81
				7								
Hole	Diameter			Con	struction Rec	ord			Tes	t of We	ll Yield	
From	To Centi	neter netres	Inside diam centimetres	Material	Wall thickness centimetres	Depth From	Metres To	subme	test method	Time W min		Recovery le Water Level n Metres
		.75	16 06	Steel Fibreglas	1 <u>7</u> 0	+ .45	11.27		ake set at - 12.19 rate - 1) 54.6	Static Level	.91 .39 1	1.35
Water found atMetres /		ater Jphur inerals		Plastic Concrete Galvanized Steel Fibreglas Plastic Concrete Galvanized	S			2 hrs Final wat of pumpi	er level end ^{ng} 1 - 87 Metres	3	L.46 2	1.22
Other: 8 m28 Gas Other:NO4	Fresh Salty M	ulphur inerals		Steel Fibreglas Plastic Concrete Galvanized				type. Sh Recomm depth.	ended pump allow C Deep ended pump 2.19 etres		4.56 4	1.20
m	Fresh S Salty M I yield, water	ulphur inerals	Outside diam	Steel Fibreglas Plastic Concrete Galvanized				rate. At (fitr If flowing (litr	give rate - es/min) g discontin-	10 15 20 25 30	.70 10 .79 15 .82 20 .84 25 .86 30	0 1.03 97 96
Other, speci		0	15.39	No Open hole	Casing or Sc	11.27	19.81			40 50 60	1.86 40 1.88 50 1.88 60	92
Depth set at - M			aling Record	d 🗹 Annu πy, neat cement slur	Tul etc Volu	Abandonment me Placed	In diagram belo		Location ances of well f	of Well	* • 00	
) Grou			nite Sturr		ic metres)	Indicate north b	y arrow.			ى _{تى}	+ 9
Cable Tool Rotary (convi Rotary (rever	entional) 🗙	Rotary (a Air perc Boring	ussion Water	Diamond Diating Driving Use]	Digging Other		West	iar	C	est Stor	Cardevoo
Domestic Stock		Industria Commen Municipa harge we	rcial al Final Statu		air conditioning	_ Other doned, (Other)	Audit No. Z Was the well o		74 nation Da	ate Well C		MM 30
Observation Test Hole Name of Well C	well Aba	ndoned, ndoned,	insufficient sup poor quality	pply Dewaterir Replacem	ng nent well		package deliver		Yes No Ministry Us	ontractor		
Capital Business Addres Box 490 Name of Well To	Water S ss (street nam Stitts echnician (las	vill t name, f		io K2s 1A6	10007		Date Received	1 T ZÓ	106	ate of Insp	b ection YYYY	1 * ****
Miller: Signatur Adi Te X Subur 10 0506E (09/03)	Stephen Christian/Cont Mn G C	ractor	Contr		Date Submitted ym 2004 Ministry's Copy	5 6 1	her's Copy		Cette	formule	est disponib	le en françai

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😵 Or	ntario	Ministry o the Enviro	f onment	Well -	A 041	980	Number below) Well Rec Regulation 903 Ontario Water Resource					
Instructions	s for Complet	ing Form			A041	980		۰. در	A	a an search ag	pag	e of
 All Section Question All metric 	ons must be c	ompleted in mpleting th nts shall b	full to avoi is applicati e reported	id delays on can b	s in processi be directed t	ng. Fur o the V	rther i Vater	nstructions and Well Manager		e available c	n the back 5-6203.	
Well Owner First Name	's Informatio	n and Loc Last Nar		Vell Info		MUN Iailing A			on hame, RR,Lot,	Concession)	LO	
Mortgage I County/District	idge /Municipality		Township	/Citv/Tow			lesc	ar Lane	al Code			lude area code)
Ottawa Can		tv/District/M		Carp	- '.	ownship	0		A 1LO	613 836 Lot		
Ottawa Can RR#/Street Nu	leton	ty/District/wi				1 .	st C	arleton -	Huntley	6 ompartment/		3
1 <u>32 Wescar</u> GPS Reading	Lane	one Easti	na .	Norti	bing	· · ·	Carp	-	of Operation:	Undifferentiate		veraged
		3 42	32 09	50	1 59 21		min			Differentiated		
General Colour	Most commo			Other Ma			•	Genera	al Description		Depth From	Metres To
Brown	Sandy	Clay	· .	St	ones						0	3.65
Gray	Sandy	-			ones						3.65	-
Gray	Limes	tone		Da	r k Layer	s		Med	lium		7.31	52.72
							-	-				
					·····							
		-										
Hole	Diameter	<u>.</u>		Cons	truction Rec	ord				Test of We	ll Yield	
Depth M	etres Diamete	Inside	Mate		Wall	De	pth	Metres	Pumping test me	thod Draw	Down	Recovery me Water Level
From	To Centimetre	centimetres		ilai	thickness centimetres	Fro	om	То	submersib	le _{min}		nin Metres
8,22 52			Steel	Fibreglass	Casing		45	0 10	(metres) 45 7 Pumping rate	1 Level 4	4.49	1 15 10
	r Record	15.86	Plastic	Concrete	.48		.45	8,22	(litres/min) 40 .	95	5.69 8.11	¹ 15.19 ² 13.06
Water found atMetres	Kind of Water	-	Galvanize						hrs + Final water level	_ min		
	Fresh Sulphu Salty Minera		Plastic Galvanize						of pumping 19,	lones		³ 11.41
	tested Fresh Sulphu	 r	<u> </u>	Fibreglass					type. Shallow	Deep		4 10.37
Gas Other:	Salty Minera	- -	Plastic Galvanize	,					depth.30.47	etres L		5 9.56
Gas 🗌	Fresh Sulphu Salty Minera	ls Outside	Steel	Fibreglass	Slot No.				Recommended p rate.	15 1	5.72	10 6.88 15 5.83
	l yield, water was	- diam	Plastic	Concrete					If flowing give rat (litres/min)	25	6.57	²⁰ 5.47 ²⁵ 5.34
Clear and se		_	Galvanize		Casing or Sc	reen			If pumping disconued, give reason.	tin- 30 1 40 1		³⁰ 5.25 ⁴⁰ 5.19
Chlorinated X	Yes 🗌 No	15.23	X Open hole	э		8.	.22	52.72		50 1 60 1	7.50	50 5.17 30 5.17
	Plugging and	Sealing Red	ord	🔀 Annula	•	Abandoni				tion of Well	lat line on	
	Fo	type (bentonite		•	(cut	me Place		In diagram beio	w show distances of y arrow.			Part Part
8.22 () Groute	d – Beni	conite :	Sturry	.42	m3					Т	
										1		Side
							-			ringen 1995 - State 1996 - State 1997 - State	1	8
	Rota	A DATE OF A DECEMBER OF A D	F Construct	ion Diamond	2	Diggin	ıg			1/	at deve	Richardson
Rotary (conv	entional) K Air p	ercussion	· =	Jetting Driving]	Other			132		at and	
Domestic	[] Indu	*******	ter Use	Public Sup	ρίγ	Other	_	ι ω	escan		Ros	P
Stock	Com Muni	mercial cipal		Not used Cooling & a	air conditioning			Audit No. 🛶	17066	Date Well 0		MM DD
Water Suppl	y Recharge	-	atus of Wel	l Unfinished	Aban	doried, (C	Other)		47066 wner's information	Date Delive	2006	8 30
Observation	well 🗌 Abandon	ed, insufficient d, poor quality	supply	Dewatering Replaceme	nt well			package deliven			2006	8 31
Name of Well C	ontractor	ontractor/Te			/ell Contractor's	Licence	No.	Data Source	Minist	ry Use Only Contractor	15	58
Capital Business Addre	Water Supp ss (street name, nu	1y Ltd. mber, city etc.)		1558			Date Received	7 YY2006MM DI	Date of Insp	pection YYY	Y MM DD
Box 490 Name of Well To	Stittsvil echnician (last nam	le.Onta		1A6	/ell Technician's	s Licence	No.	Remarks		Well Recor	d Number	
Miller: Signature Gree	Stephen mician/Contractor			Da	TOO97 ate Submitted		DD			· .		
X (19/03)	mona	Co	ntractor's Co	ppy 🗌 🕅 N	2006 Inistry's Copy		31 ell Ow	ner's Copy 🗌	C	ette formule	est disponi	ble en français
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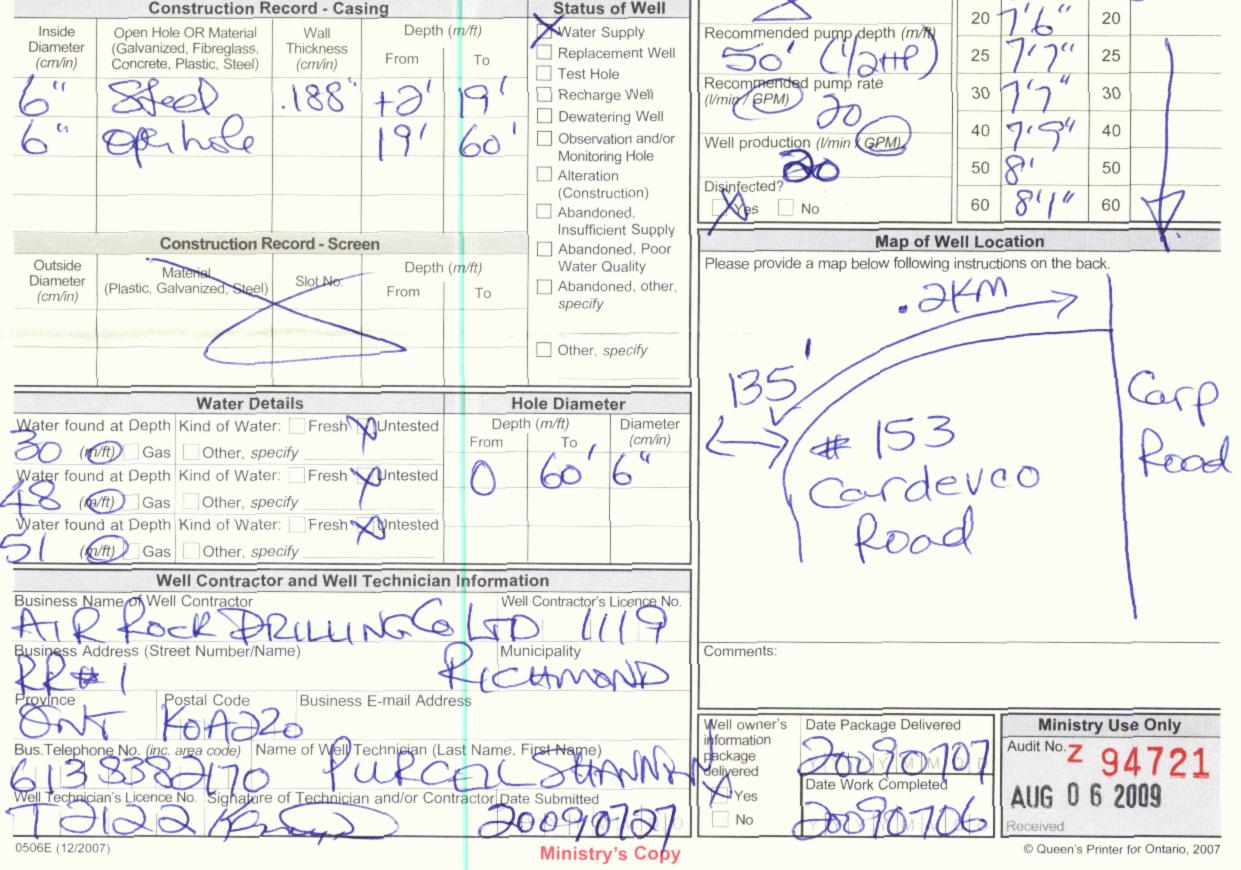
0	ntario			a a 1	3904		Regulation 903 Ontari		
 All Section Question 	n the Provi ons must be s regarding	nce of Ontario completed in f completing this	ull to avoid dela s application ca	ment is a perm ys in processir n be directed	ng. Further i to the Wate	I document. Pl nstructions and	J ease retain for future refer I explanations are available o esk (Toll Free) at 1-888-3	ence. In the back of	
 Please p 	rint clearly i	n blue or black i					Ministry Use Only		
Well Owner	's Informat	tion and Loca	tion of Well In	formation	MUN			LOT	
RR#/Street Nu /2 / - U GPS Reading	NAD 813	Zone Easting		orthing OISA90	City/Town/Vi	llage	of Operation: Undifferentiated	Block/Tract et <u> 356 - 4/8</u> ed <u>Are</u> r	-7616
General Colour		nmon material		Materials		Genera	I Description	Depth From	Metres To
Brown	5	And.	Cynk	vel-B	ouders	/	OOSE,	0	11.51
Grey	him	estoni	c				fard.	11.51	22,72
				· · · · · · · · · · · · · · · · · · ·					
							Test of We		
	Diameter etres Diam	eter Inside	Co	NSTRUCTION Reco	Depth	Metres		Down F	Recovery
From	To Centim	etres diam	Material	thickness	From	To	Submercible	/ater Level Time Metres min	e Water Level Metres
0 6.	06 20.	32 centimetres		Casing	, ion		Pump intake set at - Static	3,40	17.80
			Coteel Fibregla				Pumping rate - 1 4	5,24 1	14,10
		/5,55	Plastic Concrete	0.11£	0	11.51	(litres/min) 5850 Duration of pumping 2	15/ 2	11.79
Water jound at Metres	Record Kind of Wa	ter	Galvanized	ss					
10, GnO 3		phur	Plastic Concrete				Final water level end 3 of pumping 17, 40 metres	7,15 3	9.26
Gas	Salty Min	erals					Recommended pump 4	7, Z & 4	7.56
	Fresh Sul	. 11	Steel Fibregla				Shallow Deep Recommended pump 5	2,27 5	6.24
Gas	Salty Min	erals	Galvanized				depth 7/69 metres		
	Fresh Sul Salty Min			Screen			Recommended pump rate. (itres/min) 10	0./6 10 2.3 15	3,40
Other:	,	diam	Steel Fibregla				If flowing give rate - 20	4,41 20	1
After test of well		vas	Galvanized	-	*		(litres/min) 25 If pumping discontin- 30	6,20 25 7,77 30	
Other, specif	^і у		No	Casing or Scr	een		ued, give reason. 40	2, 79 40	
Chlorinated	Yes 🗌 No	15.55	Open hole		11.51	22.72	50 /	7. f0 50	
······································	Plugging ar	nd Sealing Reco	rd 🗋 Ann	ular space 🔲 A	bandonment		Location of Well		
Depth set at - Me From T	o Material a	and type (bentonite s	lurry, neat cement siu		ne Placed c metres)	In diagram below Indicate north by	v show distances of well from road	, lot line, and b	uilding.
0 6.0		ment	but	120	the	indicate north by			
									1
							PIADO	DA /	Ĵ
		Method of C	Construction				CURP.	101	
Cable Tool	· =	otary (air) ir percussion	Diamond] Digging Other	90	net y		
Rotary (revers	· =	oring	Driving			.09	CAR RAL	7	
Domestic		Wate ndu <u>s</u> trial	r Use	ylqqı	Other	1 yes	A.	4	1 1
Stock		ommercial Iunicipal	Not used	–					
		Final Stat	us of Well			Audit No. Z	/1634	2006	
Observation v		irge well loned, insufficient si	Unfinishe Upply Dewateri		oned, (Other)	Was the well ov package delivered	vner's information Date Delive	2006	
Test Hole	Aband	loned, poor quality	Replacer	nent well			Ministry Use Only	<u></u>	
Name of Well Co	ntractor		hnician Informa	Well Contractor's		Data Source	Contractor	600	6
DXR.w.	ATER	well- Dr	illing	600	6	Date Received	YYWOODMM DD Date of Inst	ection YYYY	•
PP	9P -	57 /	71berry	LON			8 2000		
Name of Well Te	o ve	ns ho	uie	Well Technician's	5	Remarks	Well Recor	a Number	
Signature of Tec	hnician/Contrac	ctor		Date Submitted YYYY	MM DD				
0506E (08/2006)	us,	<u>ja</u>			try's Copy	• 1	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 pumpine hrs +	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				ecord
Measurements recorded in:	A093	1965 A	093965 ^{egulatio}	n 903 Ontario NA Pa		ources Act of
Well Owner's Information						
First Name D. DOREN Last Name / Organiza			E-mail Address			Constructed
Mailing Address (Street Number/Name)			Province Postal Code	Telephor	ne No <i>. (inc</i> .	
Vell Location	\C	<u> 11K. F</u>			<u> † + </u>	
Address of Well Location (Street Number/Name)	T	ownship	Lot	Conces	sion	
County/District/Municipality	C			Province	Postal	Code
UTM Coordinates Zong, Easting 715, Nothing		Unicipal Plan and Sub	lot Number	Ontario Other		
	5733	•	<u>, i j</u>			
Overburden and Bedrock Materials/Abandonment General Colour Most Common Material		rd (see instructions on the er Materials	e back of this form) General Description	n	Dept	th (<i>m/tt</i>)
BEN, FIL	Gft	WEL	Loose.		From	1-22
BEN CLAY-	SIC	T	SOFT		1-22	2-4
GFY (IAY	510	T	WET		2-44	5-79
······						

Annular Space		Values Disert	Results of W After test of well yield, water was:	ell Yield Testii	Automatic testing reserves and and	
Depth Set at (<i>m/ft</i>) Type of Sealant Use From To (<i>Material and Type</i>)	ia 	Volume Placed (m³/ft³)	Clear and sand free	Time Water L	evel Time	
O 0.3 CONCRETE.			Other, specify	Static) (min)	(m/ft)
0.3 0.91 BENTONITE			-	Level 1	1	
0-113-79 SAND			Pump intake set at (m/ft)	2	2	
	Well Her	2.5665656666666666666666666666666666666	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	Test Hole	Monitoring	hrs + min	5	5	
□ Boring □ Digging □ Irrigation □ Air percussion つ RECT Dug □ Industrial	Cooling 8	& Air Conditioning	Final water level end of pumping (m/tt	10	10	
Dether, specify 1/12 1 Mg D Other, speci	<i>b</i>		If flowing give rate (I/min / GPM)	15	15	
Construction Record - Casing Inside Open Hole OR Material Wall De	epth (<i>m/ft</i>)	Status of Well	Recommended pump depth (m/ft)	20	20	
Diameter (Galvanized, Fibreglass, (crrvin) Concrete, Plastic, Steel) (crrvin) From		Replacement Well	Recommended pump rate	25	25	
4.07 YCASTIC . 368 0	1-22	Recharge Well Dewatering Well	(<i>l/min / GPM</i>)	30	30	
		Observation and/or Monitoring Hote	Well production (I/min / GPM)	40	40	
		Alteration (Construction)	Disinfected?	50	50	
		Abandoned, Insufficient Supply		60 ////	60	21/01/22/02/2012/2012/2012/2012/2012/20
Oulside Material De	epth (<i>m/ft</i>)	Abandoned, Poor Water Quality	Please provide a map below following		ie back.	
(cm/in) (Masuc, Gaivanized, Steel) From		Abandoned, other, specify	E			
Y-OF WESTE 10 1-4	- 3.17	Other, <i>specify</i>				
Water Details		ole Diameter				
Water found at Depth Kind of Water: Fresh Untest		(<i>m/ft</i>) Diameter				9
(m/ft) Gas Other, specify		то (cm/in) 5-79 8,25				2
(m/ft) Gas Other, specify			36.4	A HILL		
Water found at Depth Kind of Water: Fresh Untest (m/ft) Gas Other, specify			1 200			
Well Contractor and Well Technie Business Name of Well Contractor						
Make soil Sunding	-	Contractor's Licence,No.	[] W			
Business Address (Street Number/Name) H2-147 WAS BOUCH CCC Province. Postal Code Business E-mail A	K Ne	Chmon of	Comments:			
	Address					
Bus Telephone No. (inc. area code), Name of Well Technician	n (Last Name, F	irst Name)	Well owner's Date Package Delivered information package	Audit No	histry Use	Annanasanasanas
905 164 430M domean.	TRUIS		delivered Y Y Y Y M M Date Work Completed		2100	1/5
Well Technician's Licence Ve. Signature of Technician and/or		Submitted	10 100 / 00 /	65 RedMA	pnan	<u>۱</u> ۰۰۹

	18	1					· • -
P5.	/// Ministry of		g No. (Place Sticker a	nd/or Print Below)		Well R	ecord
Ontario	the Environment		-	1	on 903 On	tario Water Res	
Measurements recorded	<u> </u>	1 H07	<u>7164</u> A	093964	<u> 106</u>	P ^{age}	of
Well Owner's Inform	nation Last Name / Organiz	ration		E-mail Address		Well C	Constructed
Mailing Address (Street N	EXAUNT		Aunicipality	Province Postal Cod			li Owner
))) w FSCA	· · · ·		CAAP	and and a			
Well Location Address of Well Location		n na	ownship	Lot		oncession	
117 WEAK	LIANE		ownship	Lui		Uncession	
County/District/Municipal	lity	C	City/Town/Village		Province Onta		Code
UTM Coordinates Zone	Easting 3288 Soft	573.0	Junicipal Plan and Suble	ot Number	Other		<u> </u>
NAD 8 3 0	ock Materials/Abandonment		rd (see instructions on the	e back of this form)			
	Most Common Material	[er Materials	General Descriptio	n	Dept From	h (<i>m/ft)</i> To
BAN F	THL	GLM	VEL	LOSE.		0	1-2
BRIN 3	BCLAY	570	T	SOFT		1. ZZ	7.4
SPY C	2 LAY	SILT	·····	SOFTIWE	7	2.44	5.9
· · · · · · · · · · · · · · · · · · ·							
							· ·
Depth Set at (m/ft)	Annular Space Type of Sealant Us		Volume Placed	Results of W After test of well yield, water was:			covery
From To	(Material and Type)		(m³/ft³)	Clear and sand free		Vater Level Time	
0 0,5	CONCRETE			Other, specify Jf pumping discontinued, give reason	Static	(m/ft) (min)	(11/11)
0.3 0.61	BENTONITE. SHND.				Level	1	
8-6/ 3-91	SAND.			Pump intake set at (m/ft)	2	2	
004000/0540/2-22/0527/05200-02460/222-201860000	10 metriken mar 19 metrikultzerikteriki filmen i tiberestilisztari berekanen egekterike			Pumping rate (1/min / GPM)	3	3	
Method of Cons	Diamond Diamond	Well Us			4	4	
,	Jetting Domestic Driving Livestock	Municipa		Duration of pumping hrs + min	5	5	
	Digging Irrigation		& Air Conditioning	Final water level end of pumping (m/i	0 10	10	
Other, specify DIPE	C /UAT D Other, spec	cify		If flowing give rate (I/min / GPM)	15	15	
Inside Open Hole O	truction Record - Casing	Depth (m/ft)	Status of Well	Recommended pump depth (m/ft)	20	20	
Diameter (Galvanized, I (cm/in) Concrete, Pla	Fibreglass, Thickness		Replacement Well		25	25	
4.03 PLAS	TIC 1368 0	0.91	Recharge Well	Recommended pump rate (<i>l/min / GPM</i>)	30	30	
			Observation and/or	Well production (I/min / GPM)	- 40	40	
			Monitoring Hole	Disinfected?	50	50	
			 (Construction) Abandoned, Insufficient Supply 		60	60	
Ouleido	struction Record - Screen	Depth (<i>m/ft</i>)	Abandoned, Poor Water Quality	Map of V Please provide a map below following			
Diameter (<i>cm/in</i>) (Plastic, Galvar	Ciet Me		Abandoned, other,		1		, ↑
4.87 MAS	TIC ID 0.4	71 5.4	£	- S	1E		
			Other, specify	$\uparrow \phi$	⇒/ <u>~</u>	4	N
	Water Details	· · · · · ·	ole Diameter		2	A LA	
(<i>m/ft</i>) Gas	nd of Water:	From	To (cm/in)		3		
	nd of Water: Fresh Unter	sted 🖉	2-47 8-25	- 6m			+
(m/ft) Gas Water found at Depth King	nd of Water: Fresh Unter	sted					
(m/ft)		ente manage de planet and					
Well Business Name of Well Co	Contractor and Well Techn		tion Il Contractor's Licence No.				
Business Address (Street	Number/Name)	2	nickality	Comments:			<u> </u>
12-147 WR	A BRAUER CREEK	<u> </u>	ice hmanolly				
Province Post	tal Code Business E-mail	Address	77	Well owner's Date Package Deliver	ed 1	Ministry Use	Only
Bus.Telephone No. (inc. are	a code) Name of Well Technicia	_		information package	. A	udit No. Z 100	
Y05 164192 Well Technician's Licence No.	Signature of Technician and/o	Tour Contractor Dat	2 e Submitted	Date Work Completed			711
311 1519	6		6102901	$\square NO 201001$	10	MAR 0 1 2	010

Measurements r	ecorded in: Metric Imperia	_	93962	A27390	62 Regulation	, 903 0 101	ntario Wa 2 Page_	ter Re:	sources Act _ of
Well Owner's First Name_	Information Last Name / Organiz	ation		E-mail Add	Iress			1 Well	Constructed
	IEN E+CAVA	TTON	Municipality	Province	Postal Code	Т		by W	ell Owner
-	NT-STEAR		CABP	ON					
Well Location Address of Well L	ocation (Street Number/Name)	<u> </u>	Township		Lot		Concessior	<u>) 1</u>	<u>19. 19. 19. 19. 19.</u>
17 WE	SCAF LANE -		Citu/Tours/Villogo			Provinc	~~	Deste	Code
County/District/M			City/Town/Village			Onta		FOSIC	I Code
JTM Coordinates NAD 83		5 736	Municipal Plan and Suble	ot Number		Other			
Overburden an	d Bedrock Materials/Abandonmen	Sealing Reco		back of this form)				Der	oth (<i>m/ft</i>)
General Colour	Most Common Material	Ott	ner Materials		General Description	፟፟፟፟	•	From	
RAN	CIAV	GPT	T.		DENSE-	ν_{-}	1	2 . 2	
ZV	MAY	571	$\overline{\tau}$		arr		1	5	Σ.
/					••••••••••••••••••••••••••••••••••••••				
	Annular Space	sarra da se a contra constructiones de la construcción de la construcción de la construcción de la construcción			Results of We				
Depth Set at (m From T			Volume Placed (m³/ft³)	Clear and		Time	w Down Water Leve	I Time	Recovery Water Level
0 0.	3 CONCRETT-	., .		Other, spe	cify ontinued, give reason:	(min) Static	(m/it)	(min)	(m/ft)
).3 0.	91 BENTONIE	١				Level 1		1	
. 71 2.	13 SAND			Pump intake se	et at <i>(m/ft)</i>	2		2	
	2 2 2 contenses anti-land 2 converse distribution [sensio restriction distribution and			Pumping rate (l/min / GPM)	3		3	
Cable Tool	f Construction	Well Us	ercial 🗌 Not used	Duration of pur	noina	4		4	
Rotary (Conven Rotary (Reverse	e) Driving Livestock	Municip Test Ho	de Monitoring	hrs +	min	5		5	
Boring Air percussion	Digging Irrigation		& Air Conditioning	Final water leve	l end of pumping (m/it)	10		10	
Other, specify/	Construction Record - Casing	cify	Status of Well	If flowing give n	ate (Vmin / GPM)	15		15	
Inside Ope Diameter (Gal		Depth (m/ft)	Water Supply	Recommended	l pump depth (m/ft)	20		20	
(cm/in) Con	crete, Plastic, Steel) (cm/in) From		Replacement Well	Recommended	pump rate	25		25	
:45 J	MASTIC 10 0	1.22	Recharge Well	(l/min / GPM)		30 40		30	
/			Observation and/or Monitoring Hole	Well production	ı (I/min / GPM)	50		40 50	
			Alteration (Construction)	Disinfected?	No.	60		60	
	Construction Record - Screen		Abandoned, Insufficient Supply Abandoned, Poor		Map of We	L	ation		
Oulside Diameter (Plast	Material ic, Salvanized, Steel) Slot No. Fro)epth (<i>m/ft)</i> m To	Water Quality Abandoned, other,	Please provide	a map below following		~		
(cm/in) (1 last		7 1.13	specify		E	(j arac	Je	
100 1	More 10 17		Other, specify		- (30		
	Water Details	F	lole Diameter		15	M	& am		
	epth Kind of Water: Fresh Unte	sted Dep From	th (<i>m/ft)</i> Diameter To (<i>cm/in</i>)	N					5
	epth Kind of Water: Fresh Unte	sted D	2.35.71			Same and a	ガオ		
	Gas Other, specify epth Kind of Water: Fresh Unte	sted							
(m/ft) 🗌	Gas Other, specify			/	N				
Susiness Name of	Well Contractor and Well Techn		tion all-Contractor's Licence No.						
Strata	Street Number/Name)		Inicipality	Comments:	6				
42-147	West Beaver Lie	zek	Archmond Hi						
Province	Postal Code Business E-mail	Address			Date Package Delivere		Minis	try Us	e Only
	(inc. area code), Name of Well Technici			information package delivered	YYYYMM		Audit No.	1 በ በ	0176
Keli Technician's Lic	ence No. Signature of Technician and		te Submitted	🗌 Yes	Date Work Completed	3	·		
ストート		/ ାର	CICREQI	No [201001	171	2000 (M 🖉	(IS) U	1 2010

()- Onta	Ministry of ario the Environment		g No. (Place Sticker a	· · ·	•		Well R	
Measurements	_/ _	1 Ac	93972	A 093	972		rio Water Reso Page	ources Act
surrowship and a second s	s Information			C. and Address		1002		
First Name		TTON		E-mail Address			by We	Constructed
	(Street Number/Name)	vN	iunicipality CARO	Province	Postal Code	Teler	ohone No. (inc. i	area code)
Well Location	n		- A.C.		<u> </u>			
	Location (Street Number/Name)	1	ownship		Lot	Con	cession	
County/District/	Municipality	c /	ity/Town/Village			Province Ontario	Postal	Code
UTM Coordinates NAD 8 3	UNA 2 10 ALAN	5729	Iunicipal Plan and Subl	ot Number		Other		L
Overburden ar	nd Bedrock Materials/Abandonmen	1		1				
General Colour	Most Common Material	Oth	er Materials		al Description		From	th (<i>m/ft</i>)
Berl	FUL	SUT	2	500	-	,	1.72	1.22
CAY	TLAY	SILT SILT		SOTT	WET		2.44	15.7
<u> </u>					<i></i> ,			
· · · · · · · · · · · · · · · · · · ·								
<u> </u>								
		· · · · · ·		-				
	Annular Space				esults of W			
Depth Set at (r From	m/ft) Type of Sealant Us To (Material and Type		Volume Placed (m³/ft³)	After test of well yield, w			er Level Time \	Water Level
	-11			Other, specify	l, give reason:	Static Level	'm/ft) (min)	(m/fi)
0 0.3						1	1	
0.3 0.		•		Pump intake set at (m	/ft)	2	2	
	of Construction	Well Us		Pumping rate (I/min / G	SPM)	3	3	
Cable Tool	Diamond Public	Commer	cial 🗌 Not used	Duration of pumping		4	4	
Rotary (Conve	se) Driving Livestock	Municipa Test Hole	e Monitoring	hrs +m		5	5	
Boring			& Air Conditioning	Final water level end of	pumping (m/n)	10	10	
Other, specify	Construction Record - Casing	слу	Status of Well	If flowing give rate (I/m	in / GPM)	15	15	
Diameter (Ga	en Hole OR Material Wall [alvanized, Fibreglass, Thickness	Depth (<i>m/ft</i>)	Water Supply Replacement Well	Recommended pump	depth (m/ft)	20 25	20	A
(cm/in) Cor	ncrete, Plastic, Šteel) (cm/in) From UKSTUC 368 O	т то 1.2t	Recharge Well	Recommended pump	rate	30	30	
7.0/		1.00	Dewatering Well		(0010)	40	40	
			Monitoring Hole	Well production (I/min /	(GPM)	50	50	
			 (Construction) Abandoned, 	Disinfected?		60	60	
Outside	The second s		Insufficient Supply Abandoned, Poor Water Quality	Piease provide a map b		ell Locatio		
Diamotor	Material Slot No. From	Depth (<i>m/fl)</i> m To	Abandoned, other,		loter tonothing	t.	in the back,	14
4.82 11	LASTIC 10 1.2	25.79	Other, specify			10		
						2	, ⁷ 2	
Water found at [Water Details Depth Kind of Water: Fresh Unte		ole Diameter		-()7		~ LN	
(m/ft)	Gas Other, <i>specify</i>	From	To (cm/in)			20	~	
	Depth Kind of Water: Fresh Unte Gas Other, <i>specify</i>	sted	2.11005	1	14 >	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	m)	\uparrow
	Depth Kind of Water: Fresh Unte Gas Other, <i>specify</i>	sted		10	2.5	- 64		
	Well Contractor and Well Techn		IT INTERPORT AND A DEPARTMENT OF THE POST		L	- •		
Business Name of	of Well Contractor	Wel	Contractor's Licence No.					
	s (Street Number/Name) WEST BOUVER CRE	ek My	nicipality	Comments:			,	
Province	Postal Code Business E-mail	Address	ich mond the	ļ				
Bus.Telephone No	JLABICE o. (inc. area code) Name of Well Technici	an (Last Name, F	First Name)	information	ckage Delivere	Audi	Ministry Use	
(1905)76 Well Technician's Li	4-GBUL Robinson -	Trevis			Y Y M M ork Completed	10000	Z100	
-			DIODIA	// J// J//	001		MAR 0 1	4010

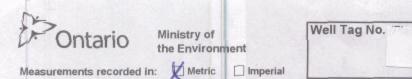
	ntario	_/	ironment	perial		19 No. (P) 5 9 3	ace Sticker a	nd/or	Print Below)	Regulation	1903 OI 26		ter Reso	ecord ources Act
Well Own	er's Infor	mation	st Name / O	vanization					E-mail Addres	s				constructed
1010	7439	C	Intari		mited						1	alambana	by Wel	Il Owner area code)
Mailing Addr		Number/Nam	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												
					1.1.1.1									
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		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 Contraction Other, specific of Water		Unteste	o be	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	24.11.1	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	Barrow Constraints	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:					
usiness M Strac usiness /	Name of We $4a_{5}$ Address (St 17W	reet Number/Ni rest Bi Postal Code	Busines	s E-mail A	ddress	Zichma Aradas	cil.co	Well ow	vner's Da	ate Package Delive	red	Min Audit No.	istry Us	e Only
usiness M Strac usiness /	Name of We $4a_{5}$ Address (St 17W	reet Number/N reest B Postal Code 4 B L C c. area code) N	Busines	s E-mail A	ddress	Zichme	ciloco	Well ow	vner's Da tion e Y	Y Y Y M M			istry Us 111	e Only 785
usiness N Stac usiness /	Name of We $4a_{5}$ Address (St 17W	reet Number/N reest B Postal Code 4 B L C c. area code) N	Busines WWW ame of Well Mul		chek k ddress boos (Last Nam Li Ke Contractor	Zichma Aradas	e)	Well ow mformat package	vner's Da tion e Y d Da		d		istry Us 111 AY 0	785 32010

	ents recorded in:	ironment	1	Well Tag No. (Place Sticker and/or Print Below) A 093965				Well Record Regulation 903 Ontario Water Resources Act Table Page 3 of 4					
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	Province				Postal	Code			
				Carp	Ontario				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. Sec.	60		60				
C. C	Construction R	ecord - Scree	m	Abandoned, Poor		Map of V	Vell Loo	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		and the second	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		0201			
	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
(cmvin) 4.82	PVC	ID		not needed		wescar			
4.05	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					
OW Bus.Teleph		And the Party of t	achnician (Last Nam	e, First Name)	information	te Package Delive	Au	Ministry Us dit No.	e Only
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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	TRY 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 More			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	nal	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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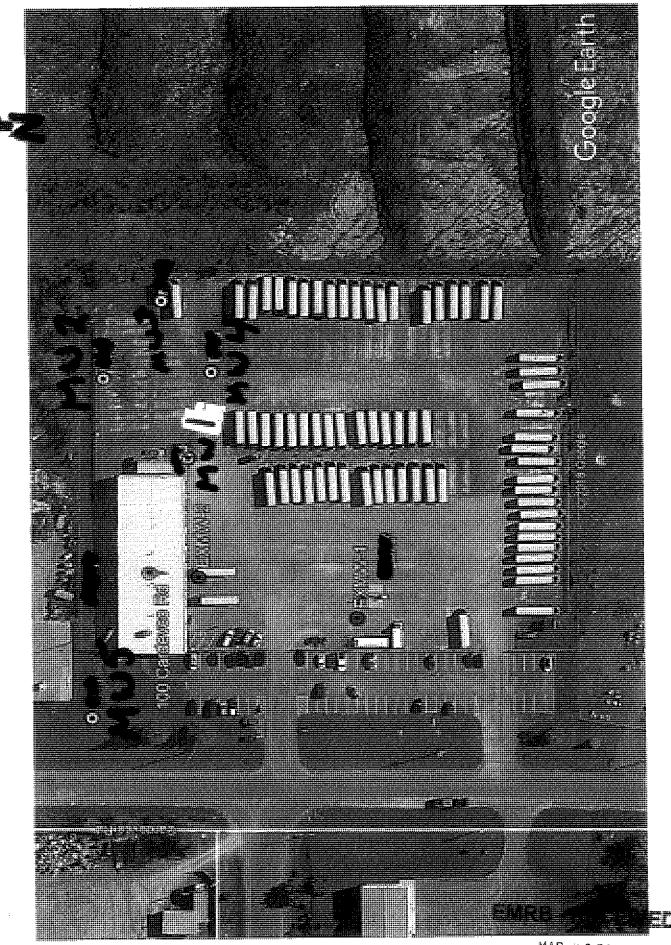
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Well Record

Regulation 903 Ontario Water Resources Act Page of

Measurements r	ecorded in:	Metric 🗌 Imp	perial					Page_		of
Well Owner's										
First Name		Last Name / Org	anization an-Construc	tinn	E-mail Address					Constructed
Mailing Address (Street Number/Na		and the state of the	Municipality	Province	Postal Code		Telephone N		
<u>123 Ca</u>	rdevco Roa	d		Carp	ON	KQA	110			
Well Location	.ocation (Street Nu	·		■ 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Lat	1	Canagagian		
	rdevco Roa			Township West Carlet	on	Lot 6		Concession		
County/District/M	unicipality		······	City/Town/Village		a fasta de tras en aterilas	Provir		Postal	Code
Ottawa	-Carleton	, North	ving	Carp Municipal Plan and Subl	lot Number	:	Ont Other	ario		
NAD 8 3	J J	1	5015933	4R8368				irt 9 & 1	2	
				ord (see instructions on the	e back of this form)					
General Colour	Most Com	mon Material	Otl	her Materials	Gener	al Description			From	h (<i>m(t</i> t)) To
		1973 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 -	Gravel	Boulder					0 ′	11
Grey & Br	own	Limesto			:				11 /	78'
Grey & Br	own acter a construction of	Limesto	one		:	· · · · · · ·		· .	78 1	93 1
Grey & Br	own	Limesto	one						93 1	100 1
		•								L
Depth Set at (m	<i>(</i>)	Annular Sp Type of Sealan			R After test of well yield, w	esults of We		d Testing aw Down		001/07
From To	5	I ype of Sealan (Material and T	it Used Type)	Volume Placed	Clear and sand fre	e	Time	Water Level		covery Nater Leve
20 ' 0	fan it isse Neat o	pement	enter d'Alexandre de la composición Notario de la composición de la composición Notario de la composición de la composic	15.6	Other, specify		(<i>min</i>) Static	(m/ft) 7.8	(min)	(m/ft) 19.7 ⁴
					If pumping discontinued	i, give reason:	Level			
						2001	1	18.7		7.6
					Pump intake set at <i>(m</i> /	®	2	14.2	2	7.8
Method of	Construction		Well Us	ia	Pumping rate (I/min / &	EMD	3	14.8	3	7.6
Cable Tool	Diamono		Comme	rcial 🗌 Not used	20 Duration of pumping		4	15.1	4	7.6
Rotary (Convent		Domes	ene (in the constraints)		hrs +	in weekster	5	15.4	5	7.6
Boring	Digging	Irrigatio		& Air Conditioning	Final water level end of	pumping (m/ft)	10	17.3	10	7.6
Other, specify		Other,			1971 If flowing give rate (l/mi	n/GPM)	15	18,4	15	7.6
	Construction R	ecord - Casing		Status of Well	X		20	19.5	20	7.6
Diameter (Galv	n Hole OR Material anized, Fibreglass,	Wall Thickness	Depth (mm) From To	Water Supply	Recommended pump of	depth (mt)	25		25	
	rete, Plastic, Šteel)	11		Test Hole	90 Recommended pump r	rate		19.6		7.8
6'14" Sti	261	188	+2' 20'	Recharge Well	(1/min / CEM) 20		30	19.6	30	7.6
5 'S 16" Op	ien Hole		20 100	Observation and/or Monitoring Hole	Well production (I/min A	(CPM)	40	19.7	40	7.8
	-			Alteration (Construction)	20+ Disinfected?		50	19.7	50	7.6
				Abandoned,	Yes No		60	19.7	60	7.6
Outside	Construction R	ecord - Screen		Insufficient Supply		Map of We				
Diameter	Material , Galvanized, Steel)	Slot No.	Depth (<i>m/ft)</i> From To	Water Quality Abandoned, other,	Please provide a map be	elow tollowing ir	nstructio	ons on the ba	ck.	
(on any)				specify						
	\rightarrow			Other, specify						
	Water Det					. (0		
Nater found at De			ntested Depti	ole Diameter	8	>	相	23 CARJ RO	EV	10
78 (m/🕼 🗌 G	Sas Other, spe	cify¥	From	To (cm/in)	1 Cat	7		CARO		
Nater found at De	pth Kind of Water Bas Dother, spe		ntested	1 20 93/4"		TI		Ko	H-K	
Nater found at De			ntested 20	100 515/16"	. 2K	M				
(m/ft) 🗌 G						Y		<u> </u>	$\overline{\cap}$	~ `
Business Name of V		r and Well Tec	hnician Informati	ion Contractor's Licence No.	Rice	HARDS	ing	Side	EKe	5AT
	illing Co. Ltd.		AAGI			u -				
usiness Address (: 6669 Franki	Street Number/Nar	ne) Stri	Mur	ncipality Richmond	Comments:	···				
Province	Postal Code	Business E-m		www.r . r a v E Dadi & Filadi	1/2 HP - 10 G	PM SET A	T 90	F.T.		
ON			iir-rock@sympa			kage Delivered		Ministr	/ Use C	nlv
			nician (Last Name, F		information package			Audit No.		•
61 38 38 21 70 /ell_Technician's Licer	nce No. Signature	Graham, of Technician and	Ryan d/or Contractor Date	Submitted	Ves Date World	k Completed		Z]	55.	253
19484	Kon	ny						NOV D	6 20	10
506E (2007/12) © Q	ueen's Printer for Onta	rio, 2007		Ministry's Copy	monore - maintenit - Angenheite Inder	the state of the s	کا لئے		<u>v 20</u>	+3

Ministry of the Environment and Climate Change	Well Tag No. (Place Sticker an			Vell Record <i>Water Resources Act</i>
Measurements recorded in: 🗹 Metric 🗌 Imperial	A261077 Ta		23157 Pag	
Well Owner's Information				
First Name Last Name / Organization	"Canada Inc. Municipality; Bro isprisend	E-mail Address		Well Constructed by Well Owner
Mailing Address (Street Number/Name)	Municipality ;	Province Postal Cod		ne No. (inc. area code) 9708899
4243 <i>FUE Marcel Lacasse</i> Well Location	<u>6.10 ISDREMA</u>			
Address of Well Location (Street Number/Name)	Township	Lot	Concess	sion
100-120 Carden LG Rd County/District/Municipality	City/Town/Village		Province	Postal Code
UTM Coordinates Zone Easting Northing	Municipal Plan and Sublo		Ontario Other	KOA LLO
NAD 8 3 / 18 4 2 3 4 4 7 50 15	952			
Overburden and Bedrock Materials/Abandonment Se General Colour Most Common Material	aling Record (see instructions on the Other Materials	back of this form) General Descriptic	on	Depth (<i>m/ft</i>) From To
	And .	dense		0.31
BKY grand g BKY sand g BAROCRY Sond stand	cave)	Se M		311.22
BARQUER Sond store		Ser Jayered		1.72 6.1
		ل 		
				1
			. <u></u>	
Annular Space			Nell Yield Test	
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 Dow Time Water	evel Time Water Level
0.3) Concrede/flushmo	<u>~</u>	Other, specify	(min) (m/n n: Static	ft) (min) (m/ft)
.31 2.74 Denterite			Level 1	
2.74 6.1 filter sind		Pump intake set at (m/ft)	2	2
		Pumping rate (I/min / GPM)	- 3	3
Method of Construction	Well Use		4	4
Rotary (Conventional) Jetting Domestic	Municipal Municipal Test Hole Monitoring	Duration of pumping hrs + min	5	5
Rotary (Reverse) Driving Livestock Boring Diggirug Imigation	Cooling & Air Conditioning	Final water level end of pumping (n	v/ft) 10	10
Image: Air percussion Image: Industrial Image: Other, specify Image: Other, specify	·	If flowing give rate (Vmin / GPM)	15	15
Construction Record - Casing	Status of Well Oth (m/ft) User Supply	Recommended pump depth (m/fit	20	20
Inside Open Hole OR Material Wall Dep Diameter (Galvanized, Fibreglass, Thickness (cm/in) Concrete, Plastic, Steel) (cm/in) From	To Replacement Well	Recommended pump department	25	25
520 PVC 340 0	Test Hole	Recommended pump rate (<i>l/min / GPM</i>)	30	30
	Dewatering Well Observation and/or	Well production (I/min / GPM)		40
	Monitoring Hole	Disinfected?	50	50
	(Construction)	Yes No	60	60
Construction Record - Screen	Insufficient Supply Abandoned, Poor Water Quality	Map of Please provide a map below follow	Well Location	
Outside Material Diameter (Plastic, Galvanized, Steel) Slot No. From	pth (<i>m/lt</i>) Water Quality To Abandoned, other, <i>specify</i>		5	
6.03 PVC 10 3.1	61			
	Other, specify		MAN	
Water Details	Hole Diameter ed Depth (m/ft) Diameter			
Water found at Depth Kind of Water: Fresh Untesta (m/ft) Gas Other, specify	From To (cm/in)			
Water found at Depth Kind of Water: Fresh Untest	1000			
(<i>m/ft</i>) Gas Other, specify Water found at Depth Kind of Water: Fresh Untest	= 1.72 6. 1.00			
(m/ft) Gas Other, specify				
Well Contractor and Well Technic Business Name of Well Contractor	Well Contractor's Licence No			
Business Address (Street Number/Name)	Municipality	Comments:		
165 Shields Lours	Markham			
Province Postal Code Business E-mail A UN US R S V F W record	SCALLASON COM	Well owner's Date Package Del		Ministry Use Only
Bus.Telephone No. (inc. area code) Name of Well Technicia	n (Last Name, First Name)		M D D M	№ 2 229576
Yell Technician's Licence No. Signature of Technician and/or		Tes Date Work Compl	/ ∰Ø	MAR C 8 2019
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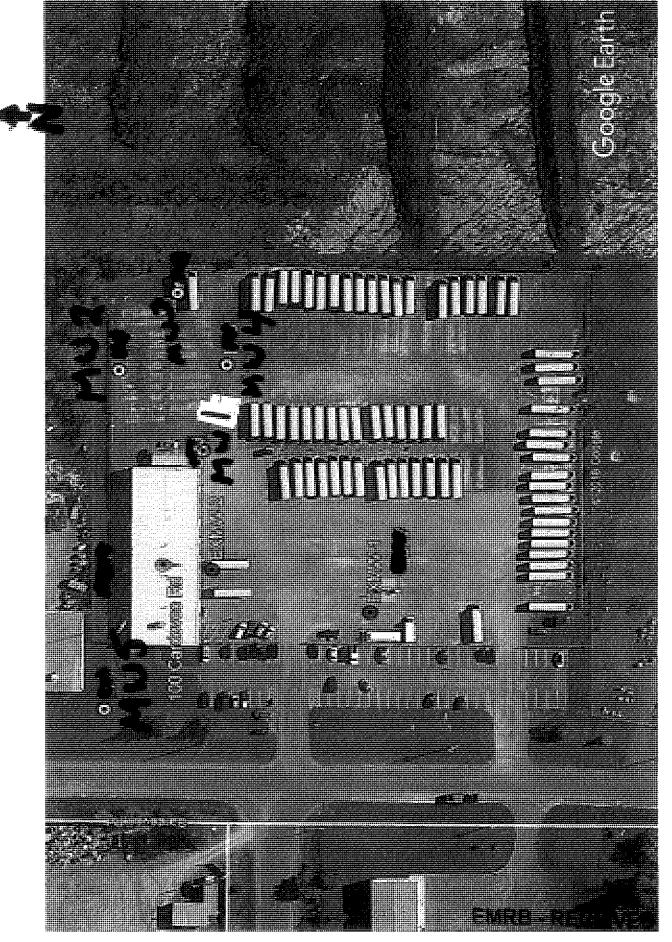
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Measuremer	nts record	ed in: 🗖 M	étric 🗌 Im	perial	A26	1678 -	Гад	#:A26 77	8 5-23		Page_	a 7765	of
Well Own	er's Info	mation											•
First Name		Li	StName / On	ganization	Can	ad a Inc Augioipality 1 Brarsbrian		E-mail Address					Constructed
		Number/Nam	e)		N N	Aunicipality		Province	Postal Code		elephone N		
4243 / Well Locat		arcel La	rcasse_		<i>l</i> :	<u> Stersbrier</u>	<u>rd</u>	<u>ilec</u>	J 7 1	M4	4509	70	<u>ss99</u>
Address of W	Vell Locatio	n (Street Num				Township			Lot	0	Concession		
100-120 County/Distri	101/Municip	JCO Rd				City/Town/Village				Provinc		Postal	Code
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UTM Coordin	nates Zone	$\frac{1}{4}$ Easting $\frac{1}{4}$ $\frac{1}{2}$ $\frac{3}{4}$	Nort	^{hing} ራር /ር ንጉ	997	Municipal Plan and	Sublot	Number		Other			
						ord (see instructions	on the	back of this form)					
General Col	lour	Most Comm	ion Material		Oth	ner Materials		Gene	ral Description			Dep From	th (<i>m/ft</i>) To
GRY BRN GRY	90	-avel_		\$	and 1			1-nse			(1	<u>-3</u>
BRN	56	nd 1		9	rave	<u>,</u>		50 pr				3/	.61
GRY	84	nd ston	L					Impered			0	6]	>./
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		,											
								·····					
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			Annular S	ipace					Results of We	ell Yiek	Testing		
Depth Set	t at (<i>m/ft</i>) To		Type of Seala	ant Used		Volume Place (m³/ft³)	d	After test of well yield,	water was:	Dra	w Down		ecovery Water Level
	<u></u>	CONCR	(Material and	(chm	C and S	{///////		Other, specify		(min)	(m/ft)	(min)	(m/ft)
<u></u>	1.22	bento		1)				If pumping discontinue	ed, give reason:	Static Level			
	<u>1.2 ~</u> ~ 1	<u> </u>						-		1		1	
1. 7 7	ر ت کر	Fille!	30nd					Pump intake set at (m	v/ft)	2		2	
	ad of Co	nstruction			Well Us			Pumping rate (Vmin / (SPM)	З		3	
	ADMINIPERSONAL PROPERTY AND INCOMENDATION OF A	Diamond	Publi	c			ied	Duration of pumping		4		4	
Rotary (Co		Jetting			Municip		- 1		min	5		5	
Boring		Digging	□ Irriga	ition		& Air Conditioning		Final water level end	of pumping (m/ft)	10		10	
Other, spe				r, specify				If flowing give rate (Vrr	iin / GPM)	15		15	
		nstruction Re			v (m)	Status of W			1	20		20	
Inside Diameter (cm/in)	(Galvanize	e OR Material ed, Fibreglass, Plastic, Steel)	Wall Thickness (cm/in)	Dep From	th (<i>m/ft)</i> To	Water Supply	Nell	Recommended pump	aepin (<i>m/iii)</i>	25		25	
C11	PVC		340	0	1.52	Test Hole Recharge Wel		Recommended pump (I/min / GPM)	rate	30		30	
1150	1		. / [-	·(1	Dewatering We Observation ar		``´´		40		40	
······						Monitoring Hol		Well production (Vmin	/GPM)	50		50	
						(Construction)		Disinfected?		60		60	
	Co	nstruction R	ecord - Scre	en		Abandoned, Insufficient Su			Map of W	ell Loc	ation		
Outside Diameter	м	aterial	Siot No.		th (<i>m/ft</i>)	Abandoned, P Water Quality		Please provide a ma				he bac	c .
(cm/in)	(Plastic, Ga	Ivanized, Steel)		From	То	Abandoned, of specify	ner,						
6.05	PVL	-	10	1.52	3.1	Other, specify							
Water found	1 at Dooth	Water Del Kind of Water		luntoeto	(m)	Hole Diameter	neter		p	162	à		
	/ft) 🗍 Gas			Jontester			ıvin)		v				
		Kind of Water		Unteste		· (a) /1.	15						
		Other, special Character		Unteste		<u> </u>	62						
(m)	/ft) 🗍 Gas	Other, spe	ecify		-								
Businese Mr		ell Contracto	or and Well	lechnici.	2466666666999999666666666666	ition /ell Contractor's Licen	ce No						
Strate			602	P		ZX M							
Business Ac	571	eet Number/Na	ame)	and the second s	M	unicipality MACKAMM		Comments:					
Province		ostal Code	Business	E-mail Ac	idress	<u> </u>	11.51						
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Bus. relepho	$\frac{1}{2}$	area code) Na	arrie OI VVEII IE	-UNICIAN	(Last Name	, rasiname)		delivered	YYMM Work Completed			bas V	8199
	on'e Liconer	No. Signature	of Techniciar	and/or C	ontractor D	ate Submitted		Yes		1.	MAN	601	2019

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Ministry of the Environmen	Well Tag No. (Place Sticker and	de Directo	Well Record
Ontario and Climate Change	1 1261082 Ta		903 Ontario Water Resources Act
Measurements recorded in: 🔓 Metric 🔄 Imperial	1 1261082	<u></u> <u>S-2</u>	Page of
Well Owner's Information First Name Last Name / Organiz	ation	E-mail Address	Well Constructed
Mailing Address (Street Number/Name)		Province Postal Code	by Well Owner Telephone No. (inc. area code)
4243 rue Marcel Lacasse	Brorsbriand	QC J7L1	
Well Location Address of Well Location (Street Number/Name)	Township	Lot	Concession
100-pocardenco Ra			
County/District/Municipality	City/Town/Village	arp	Province Postal Code Ontario KOALLO
$\begin{array}{c c} \text{UTM Coordinates Zone, Easting} \\ \text{NAD} & 8 3 1 2 4 2 3 3 7 6 5 0 1 \\ \end{array}$	Nunicipal Plan and Sublo	t Number	Other
Overburden and Bedrock Materials/Abandonment	t Sealing Record (see instructions on the	e back of this form)	
General Colour Most Common Material	Other Materials	General Description	Depth (<i>m/ft</i>) From To
BRN top soil BRN sand		dense	
GRY Sand Store	grase/	soft lagered	1.22 3.35
	<u>, , , , , , , , , , , , , , , , , , , </u>		
Annular Space	9	Results of W	ell Yield Testing
Depth Set at (<i>m/ft)</i> From To (<i>Material and Type</i>	sed Volume Placed	After test of well yield, water was:	Draw Down Recovery
0 .31 concrete/	· · · ·	Other, specify	(min) (m/ft) (min) (m/ft) Static
.3/1.68 bentonite		If pumping discontinued, give reason:	Level 1
1.68 3.35 Litter sand		Pump intake set at (m/ft)	2 2
		Pumping rate (V/min / GPM)	3 3
Method of Construction	Well Use		4 4
Rotary (Conventional) Jetting Domestic Rotary (Reverse) Driving Livestock	Municipal Dewatering Trest Hole Monitoring	Duration of pumpinghrs +min	5 5
Boring Digging Imigation Air percussion	Cooling & Air Conditioning	Final water level end of pumping (m/ft)	10 10
Other, specify Other, spe		If flowing give rate (I/min / GPM)	15 15
Construction Record - Casing Inside Open Hole OR Material Wall	Depth (m/ft) Water Supply	Recommended pump depth (m/ft)	20 20
Diameter (Galvanized, Fibreglass, Thickness (cm/in) Concrete, Plastic, Steel) (cm/in) Fro	I Test Hole		25 25
5.20 PUC 390 C		Recommended pump rate (I/min / GPM)	30 30
	Observation and/or Monitoring Hole	Well production (I/min / GPM)	40 40
	Alteration (Construction)	Disinfected?	50 50
	Abandoned, Insufficient Supply	Yes No	60 60
Outside Material Diameter (Plantic Cohemistral Stock) Slot No	Depth (<i>m/ft</i>)	Please provide a map below follow	
(cm/in) (Plastic, Galvalitzed, Steel) Fro	specity		
6.03 PUC 10 1.8	3.35 Other, specify		
Water Details	Hole Diameter		uns .
Water found at Depth Kind of Water. Fresh Unter		N	(W)
(<i>m/ft</i>) Gas Other, specify Water found at Depth Kind of Water: Fresh Unit	- 0 717 11.7		
(m/ft) Gas Other, specify	2.13 3.35 7.62		
Water found at Depth Kind of Water: Fresh Unter (m/ft) Gas Other, specify			
Well Contractor and Well Tech	nician Information Well Contractor's Licence No.		
Business Mame of Well Contractor Strate Dri Mity GCO.P	7241		- 18 - 100 MARTING
Business Address (Street Number/Name)	Municipality, Markhom	Comments:	
Province Postal Code Business E-ma ON 43R SUP wrzcor	ail Address	Well owner's Date Package Deliver	red Ministry Use Only
Bus. Telephone No. (inc. area code) Name of Well Technic		package	Audit No. 720022
905990707979797	/or Contractor Date Submitted	Date Work Complete	
	Y Y Y Y M M D D	$\square NO 496904$	

0506E (2014/11)	

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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

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

- 16		
- 12		

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.

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		
Metals	Ва	0.01	mg/L	MAC 1.0	0.58	0.59
	Ве	0.0005	mg/L		<0.0005	<0.0005
	Ca	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
	K	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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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		
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

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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

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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 Carp, Ontario

DATUM Geodetic					I				FILE NO.	PG6018	
REMARKS						Novembe	40.000		HOLE NO.		
BORINGS BY Backhoe											
SOIL DESCRIPTION				NPLE	Що	DEPTH (m)	ELEV. (m)		esist. Blo 0 mm Dia.		Piezometer Construction
		ТҮРЕ	NUMBER	% RECOVERY	N VALUE or RQD			• v	later Cont		Piezor Consti
GROUND SURFACE				R	z ·	0-	118.65	20	40 60	80	
Asphaltic concrete0.09			1			_					
FILL: Brown silty sand with crushed stone, gravel, occasional cobbles		X G	2								
0.60 Rigid insulation0.70											
		g G	3			1-	-117.65				
Compact to dense, brown SILTY SAND 1.80											
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 Choo	40 60 r Strength		00
								▲ Undist		Remoulded	

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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

FILE NO.

DATUM Geodetic

DATUM Geodetic									FILE NO.	PG6018	
REMARKS						Novembe	40.000		HOLE NO.	TP 2-21	
BORINGS BY Backhoe					DATE						
SOIL DESCRIPTION	PLOT		SAN	MPLE		DEPTH (m)	ELEV. (m)		esist. Blo 0 mm Dia		eter uction
		ТҮРЕ	NUMBER	% RECOVERY	N VALUE or RQD			• v	later Con	tent %	Piezometer Construction
GROUND SURFACE	STRATA		z	RE	z ö	0	110.67	20	40 60	0 80	1.0
TOPSOIL0.10						- 0-	118.67				
FILL: Brown silty sand with crushed stone, gravel and cobbles, trace asphalt 0.60		G	1								
Rigid insulation 0.70											
FILL: Crushed stone		∑ G	2				447.07				
						1-	-117.67				
Compact to dense, brown SILTY SAND		∀ ი									
		χG	3								
2.10						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	40 60 ar Strengt urbed △		⊣ 00

SOIL PROFILE AND TEST DATA

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

154 Colonnade Road South, Ottawa, Ontario K2E 7J5

										ENO. PG	6018	
REMARKS BORINGS BY Backhoe				_		Navamba	- 10 000	04	HOL	E NO. TP	3-21	
BORINGS BT DACKIDE			6 4 1			Novembe	1 12, 202			Blows/0.		
SOIL DESCRIPTION	A PLOT				Що	DEPTH (m)	ELEV. (m)			n Dia. Cone		Piezometer
	STRATA	ТҮРЕ	NUMBER	% RECOVERY	N VALUE or RQD			0 V	Vater	Content %	ó	Piezon
GROUND SURFACE	01		4	RE	z º	0-	-118.55	20	40	60 8	30 	
TOPSOIL0.1	2											
FILL: Brown silty sand with crushed stone, gravel and cobbles, trace asphalt		X G	1									
0.6 Rigid insulation 0.7		« «										
Rigid insulation0.7												
		ß	2			1-	-117.55					-
Compact to dense, brown SILTY SAND												
1.6 End of Test Pit	0											-
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	40	60 8	30 10	00
								Shea ▲ Undis	ar Str	ength (kPa △ Remou	a)	

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.

R	ΞM	ЯK	S	

DATUM

Geodetic

										PG6018	B
REMARKS									HOL	^{E NO.} TP 4-21	
BORINGS BY Backhoe				D	ATE	Novembe	er 12, 202	21		16 4-21	-
SOIL DESCRIPTION	ргот		SAN	IPLE		DEPTH (m)	ELEV. (m)			Blows/0.3m Dia. Cone	eter
	STRATA	ТҮРЕ	NUMBER	% RECOVERY	VALUE Nr RQD	(,	()	• v	Vater	Content %	Piezometer Construction
GROUND SURFACE	ν. Γ.		ŭ	REC	N OL		440 77	20	40	60 80	
)5					0-	-118.77				
FILL: Crushed stone and gravel 0.2	20	G G	1								
FILL: Brown silty sand with gravel 0.4	10	G	2								
Compact to dense, brown SILTY SAND		X G	3			2-	- 117.77 - 116.77				
3.5 End of Test Pit	<u>0 ' .</u>										
(Groundwater infiltration at 2.0m depth)											
								20 Shea ▲ Undist		60 80 ength (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

PF	МΛ	PK	S	

DATUM

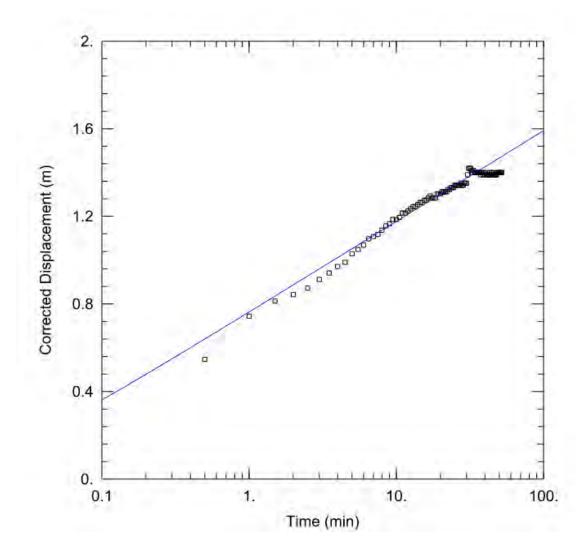
Geodetic

STRATA PLOT	PE	SAN	D IPLE	ATE I	Novembe	r 12, 202				E NO	TP	5-21	
	PE	SAN	IPLE				Dei	_					
	ЪЕ				DEPTH	ELEV.	Per				ows/0. a. Con	3m e	ster
S ALAN	Τ	TYPE NUMBER NUMBER %		(m)	• Water Content %			6	Piezometer Construction				
A A A		z	RE	zÖ	0	110 21	2	0	40	(50 a	30	
	G	1			0-	-118.31							
	G	2			1-	-117.31							
					2-	-116.31							¥
									40			30 100	0
		G	G 2	G 2	G 2	G 2 1-	G 2 1−117.31	G 2 1-117.31	G 2 1-117.31 2-116.31 20 Sheal	Z G 2 1-117.31 2-116.31 20 40 Shear Str	G 2 1-117.31 2-116.31 20 40 6 Shear Streng	G 2 1-117.31 2-116.31 20 40 60 8 Shear Strength (kP	G 2 1-117.31 2-116.31 20 40 60 80 10 Shear Strength (kPa)

PH4600-LET.01

Pumping Test Analysis Report

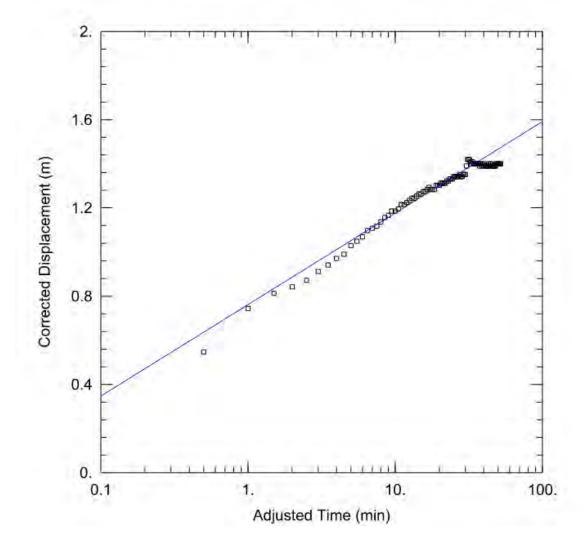
File No.	PH4600	Well ID:	TW1
Date:	Thursday, September 27	Solution Method:	Theis
Client:	Premier Bus Lines. Ltd	Transmissitivity (m2/day):	17.17
Site Address:	135 Cardevco Rd, Carp	Discharge Rate (L/min)	27
Project:	Site Plan Control Application	Analysis performed by:	AS



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



patersongroup

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

135 Cardevco, Carp, ON

(Completed using the site	e specific sewage	e system)
Infiltration Factors		
Topography	0.20	
Soil	0.40	
Cover	0.10	
Total	0.70	
Site Characteristics		
Area of Site :	2024	m ²
Total of roof areas:	277	m ²
Total area of paved driveway areas:	667	m²
Roof + paved driveway areas	944	m ²
Impervious Area	944	m²
Percent Impervious Area =	47	%
Infiltration Area =	1080	m ²
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) $C_T = (Q_bC_b+Q_eC_e+Q_iC_i)/(Q_b+Q_e+Q_iC_i)$) - Cumulative Nitrate Concer	atration
$Q_{\rm b}$ = flow entering the system across the upgradient area		m ³ /day
$C_{\rm b}$ = background nitrate concentration	0	mg/L
Q_{e} = flow entering the system from the septic drainfield	0.876	mg/∟ m ³ /day
C_e = concentration of nitrates in the septic effluent	18.444	mg/L
Q_e = flow entering the system from infiltration	10.444	m³/day
C_i = Concentration of nitrates in the infiltrate	0	mg/L
	C _T = 9.73	mg/L
	of - 3.13	iiig/L

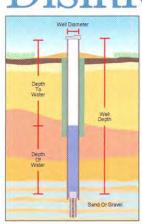
PH4600

135 Cardevco Road PH4600

TW1	inputs					
pН	8.15		А	0.19		
TDS	767		В	2.37		
Hardness Alkalinity	462 289		C D	2.26 2.46		
Temp.	10.6		D	2.40		
			pHs =	7.133434026		
	lian Oatumatian In					
Lange	lier Saturation Ir	idex (LSI) Calc	ulation	(Langelier, 1936)		
	LSI = pH - pHs		A = (Log10 [TDS] - 1)	/ 10		
	pHs = (9.3 + A + B) - (C + D) Where:		B = -13.12 x Log10 (oC + 273) + 34.55			
			C = Log10 [Ca2+ as CaCO3] - 0.4			
			D = Log10 [alkalinity as CaCO3]			
			LSI =	· <u>1.0</u>		
1.01	Effort		-		-	

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).
-0.5 to -2	Water is under saturated and tends to dissolve solid calcium carbonate (seriously corrosive).

Disinfection Instruction Sheet



vour trouble.

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 (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 Dia	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.



Manganese in Drinking Water Fact Sheet

WHAT IS MANGANESE?

Manganese is a naturally occurring element that is an essential nutrient for humans and animals. It is found in many foods, as well as in air, water, soil, and rocks.¹ Manganese makes up 0.1% of the Earth's crust, and can be found as a component of other minerals like sulfides, oxides, carbonates, and silicates.² Manganese is used in the manufacture of various products including iron and steel alloys, batteries, glass, fireworks, fertilizers, cosmetics, paints, and cleaning and disinfection products.^{1,2} Manganese can also be purchased as a nutritional supplement.²

HOW DOES MANGANESE GET INTO DRINKING WATER?

Manganese is naturally occurring in many surface and ground waters. Manganese can also be dissolved from soils, sand and rocks to enter surface and ground waters.¹ Human activities like mining, industrial discharges, or landfills may also contribute to manganese in surface and ground waters.^{1,2} In general, manganese can be found at higher concentrations in groundwater compared to surface water.² Some lakes and reservoirs can also have higher levels of manganese due to natural water chemistry.²

Permanganate, a compound that contains manganese, may also be added to water during the treatment of drinking water to remove other chemicals (e.g., for the removal of iron).^{2,3}

HOW DOES MANGANESE INTAKE AFFECT MY HEALTH?

Too much or too little manganese in your body can lead to health problems.

Manganese deficiency: Manganese deficiency is rare and symptoms are not well defined. Health effects observed in individuals with diets very low in manganese include skin rashes, slow nail growth, reduced bone density, loss of pigmentation in hair, and low cholesterol levels.²

Manganese excess: There are few reports of adverse health effects from people who ingest too much manganese from food and water.¹ Recent evidence reviewed by Health Canada indicates that high levels of manganese in drinking water may impact memory and learning, behaviour, and fine motor control in infants and young children.^{2,4} Formula-fed infants may be more susceptible to health risks if water with high concentrations of manganese is used to prepare formula. This is because infant brains are rapidly developing, they drink more water in proportion to their body weight, and they absorb more manganese and are less able to remove

it from their bodies compared to other age groups.³ For adults and older children, short term exposure to manganese in drinking water at levels slightly above the guideline is unlikely to cause negative health effects.³

Health Canada notes that exposure to manganese while showering (either through breathing in water vapour or absorption through skin) is likely to be negligible.²

WHAT ARE THE LEVELS OF MANGANESE FOUND IN CANADIANS?

For most Canadians, diet is the main source of manganese. The Canadian Health Measures Survey (CHMS) is a national survey that collects information about the general health of Canadians and includes measurements of chemicals in blood and urine samples.⁵ The objective of the chemical measurements in the CHMS survey is to establish baseline levels in the Canadian population. Given that manganese is an essential trace element, its presence in the blood and urine of Canadians is expected. Manganese in blood and urine can be interpreted as an indicator of exposure, but does not necessarily mean that health effects will occur.⁵ Data collected from 2007 to 2011 for the CHMS found that the average levels of manganese measured in the blood of people in the Canadian population (aged 3 to 79) ranged from $8.8 - 11 \mu g/L$.⁶ More information on the CHMS and the levels of manganese in Canadians can be obtained by visiting the Canadian Biomonitoring Dashboard.⁶

ARE THERE STANDARDS FOR MANGANESE IN DRINKING WATER?

The Ontario Drinking Water Standard (ODWS) published in 2006 sets an aesthetic objective for manganese in drinking water at 0.05 mg/L.⁷ The aesthetic objective is not intended to prevent health effects (e.g., not a health-based standard), but instead is intended to prevent the discolouration and staining of fixtures, and the undesirable taste caused by higher levels of manganese in water.

The Canadian Drinking Water Guideline for manganese developed by Health Canada stipulates a maximum acceptable concentration (MAC) in drinking water of 0.12 mg/L and an aesthetic objective of 0.02 mg/L² The MAC is a health-based value intended to be protective of neurological effects in infants, the most sensitive population, and therefore it is also protective for chronic exposure in children and adults.²

ARE THERE OTHER STANDARDS OR GUIDELINE VALUES FOR MANGANESE?

The main source of exposure to manganese is via food, with grains, nuts and vegetables contributing the most to a person's daily intake of manganese. The average dietary intakes of manganese across all age groups according to the Canadian Total Diet Study (TDS) were estimated to range between 44.0 to 61.3 μ g/kg of bodyweight per day (based on data gathered from different Canadian cities for the TDS).² Health Canada has also established Adequate Intake Levels for manganese ranging with age or lifestage from 0.003 to 2.6 mg/day and Tolerable Upper Intake Levels ranging from 2 to 11 mg/day.⁸



Infant formula sold in Canada is regulated to contain a minimum of 5 μ g of manganese per 100 available kilocalories (equivalent to 3.33 μ g per 100 mL of ready-to-feed formula); a maximum amount of manganese has not been set for infant formula.⁹

HOW CAN I TELL IF MY DRINKING WATER HAS HIGH MANGANESE LEVELS?

Water testing is the only way to know if manganese is present. Although water with elevated levels of manganese may impart a bitter metallic taste, tint water purplish brown or black (water discolouration may occur at concentrations as low as 0.005 to 0.02 mg/L), and stain laundry and plumbing fixtures;^{2,10,11} but these issues can also be caused by other chemicals.

WHAT SHOULD I DO IF A HIGH LEVEL OF MANGANESE IS FOUND IN MY WELL WATER?

For households who do not obtain their drinking water from a municipal source, a residential drinking water treatment device may be an option to reduce manganese concentrations in drinking water. Options can be explored with professionals specialized in water treatment, but examples of treatment processes effective at removing manganese include reverse osmosis, ion exchange (including water softeners and other cation exchange systems) and oxidizing filters.² As with any water treatment system, it is important to follow the manufacturer's recommendations for operation and maintenance (e.g., replacement of filter media).

REFERENCES

1. United States Environmental Protection Agency (US EPA). Drinking Water Health Advisory for Manganese [Internet]. 2004. Available from: https://www.epa.gov/sites/default/files/2014-09/documents/support_cc1_magnese_dwreport_0.pdf

2. Health Canada. Guidelines for Canadian Drinking Water Quality: Guideline Technical Document – Manganese [Internet]. 2019. Available from: https://www.canada.ca/en/healthcanada/services/publications/healthy-living/guidelines-canadian-drinking-water-quality-guidelinetechnical-document-manganese.html

3. Health Canada. Water Talk - Manganese in drinking water [Internet]. 2023. Available from: https://www.canada.ca/en/health-canada/services/environmental-workplace-health/reports-publications/water-quality/water-talk-manganese.html

4. HealthLink British Columbia. Manganese in Drinking Water [Internet]. Available from: https://www.healthlinkbc.ca/healthlinkbc-files/manganese-drinking-water

5. Health Canada. Second Report on Human Biomonitoring of Environmental Chemicals in Canada: Manganese [Internet]. 2013. Available from: https://www.canada.ca/en/healthcanada/services/environmental-workplace-health/reports-publications/environmental-



contaminants/second-report-human-biomonitoring-environmental-chemicals-canada-health-canada-2013.html#a8.9

6. Government of Canada. Canadian Biomonitoring Dashboard [Internet]. 2024. Available from: https://health-infobase.canada.ca/biomonitoring/about.html

7. Ontario Ministry of the Environment, Conservation and Parks. Technical Support Document for Ontario Drinking Water Standards, Objectives and Guidelines [Internet]. 2006. Available from: https://wcwc.ca/wp-content/uploads/2021/08/Technical-Support-Document-for-Ontario-Drinking-Water-Standards-Objectives-and-Guidelines.pdf

8. Health Canada. Dietary reference intakes tables: Reference values for elements [Internet]. 2023. Available from: https://www.canada.ca/en/health-canada/services/food-nutrition/healthyeating/dietary-reference-intakes/tables/reference-values-elements.html#tbl2

9. Government of Canada. Food and Drug Regulations (C.R.C., c. 870) [Internet]. Available from: https://lois-laws.justice.gc.ca/eng/regulations/C.R.C.%2C_c._870/page-53.html

United States Environmental Protection Agency (US EPA). Secondary Drinking Water Standards:
 Guidance for Nuisance Chemicals [Internet]. 2024. Available from:
 https://www.epa.gov/sdwa/secondary-drinking-water-standards-guidance-nuisance-chemicals

11. World Health Organization (WHO). Manganese in drinking-water: Background document for development of WHO Guidelines for drinking-water quality [Internet]. 2021. Available from: https://www.who.int/publications/i/item/WHO-HEP-ECH-WSH-2021.5

Please note: This fact sheet was created by Ottawa Public Health in consultation with Public Health Ontario.

Manganese in Drinking Water Fact Sheet [Last updated: September 12, 2024]



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.

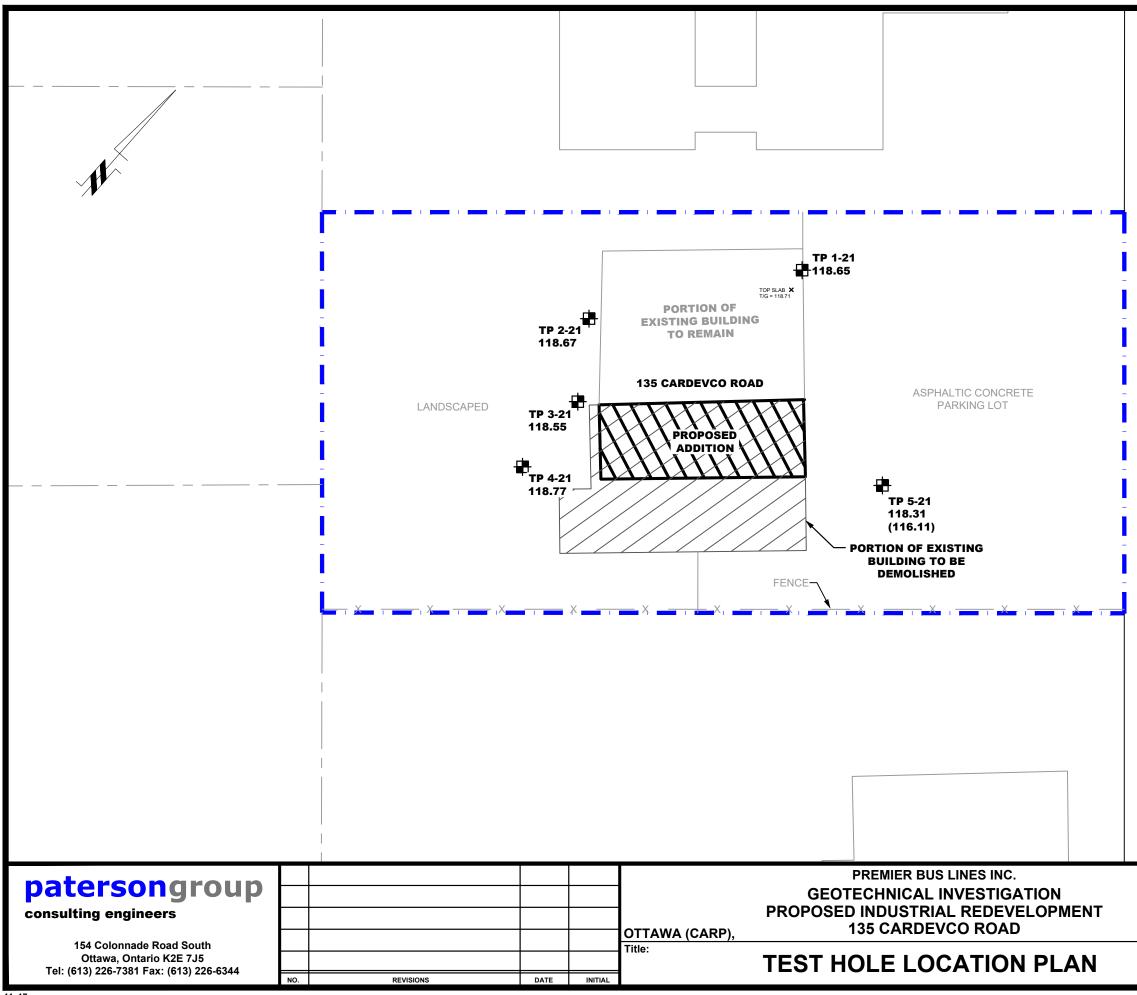
General performance evaluation and stress tests were performed at the Wastewater Technology Site located at the NSF Wastewater Technology Testing Facility located in Waco, Texas. The raw wastewater used in the test was residential wastewater. The characteristics of the wastewater during the test are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

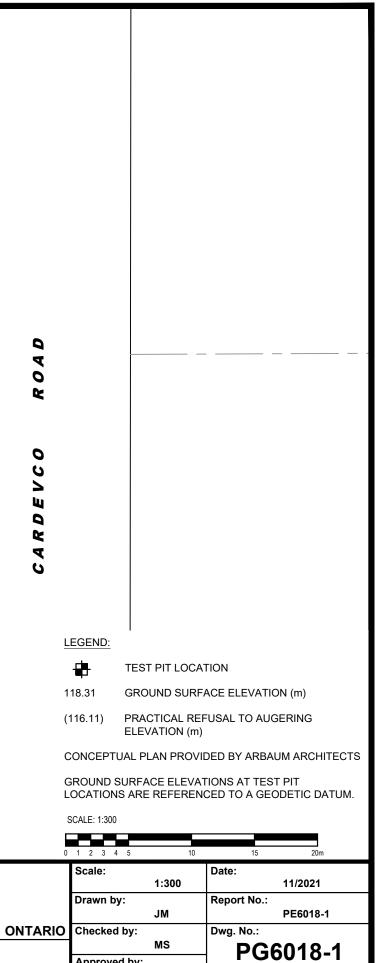
The observations and analyses included in this report are certified to be correct and true copies of the data secured during the performance tests conducted by NSF on the wastewater treatment system described herein. The manufacturer has agreed to present the data in this certification in its entirety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

Sharon Steiner

Jenny Oorbeck General Manager Sustainability

Sharon Stiener Business Unit Manager Wastewater

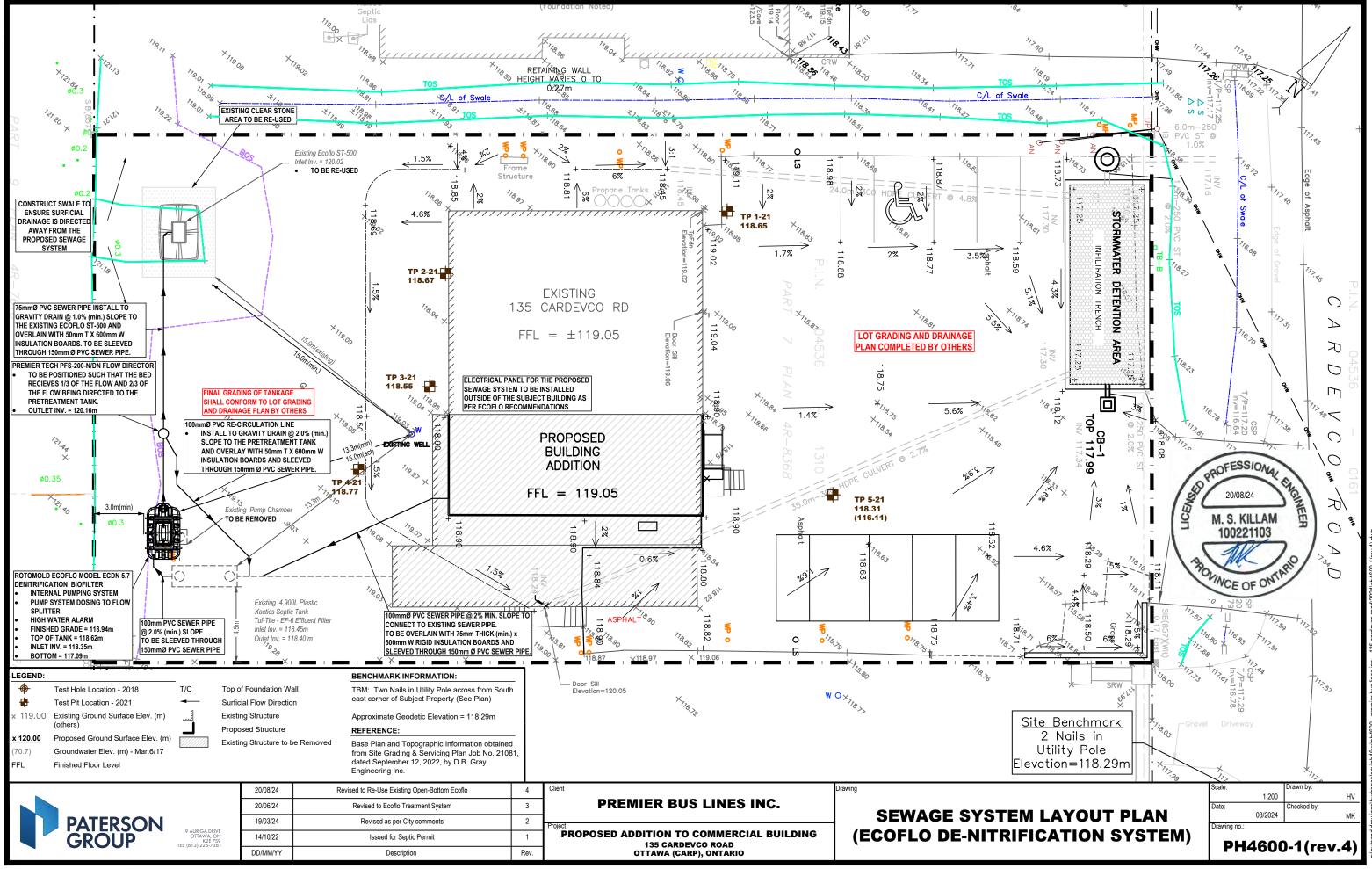




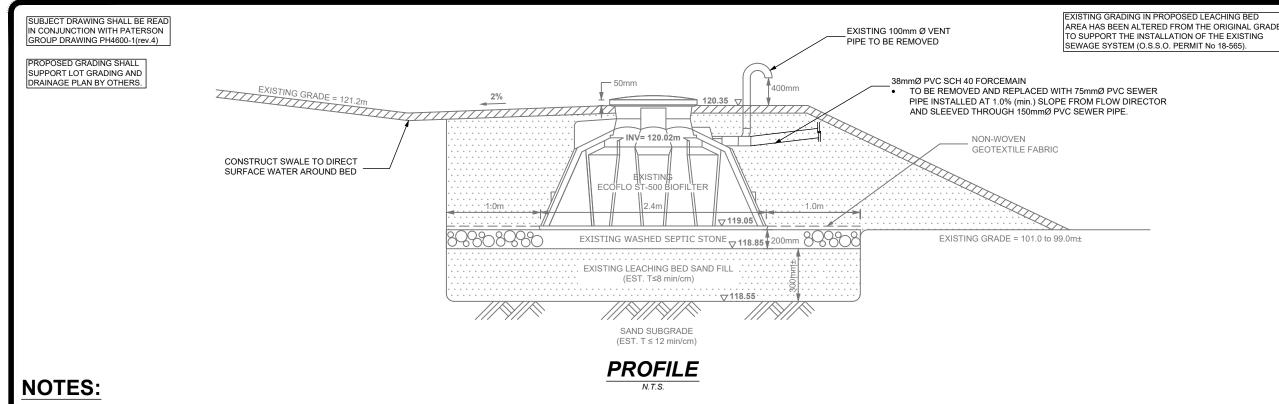
Approved by:

DJG

Revision No.:



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1) ESTIMATE OF DAILY SEWAGE FLOW (Q)

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

- No. OF EMPLOYEES = 2 x 75 L/DAY = 150 L/DAY
- OFFICE SPACE 90m² = (90m²/9.3) x 75 L/DAY = 726 L/DAY

DESIGN SEWAGE FLOW RATE = 876 L/DAY

2) SOIL CONDITIONS

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

- TP DRY UPON COMPLETION

TH 1-18, ELEV	/. 119.09m	TP 2-21, ELE	V. 118.67m	TP 3-21, ELE	V. 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

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

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 EQUIPPED WITH A SINGLE TIME OPERATED EFFLUENT PUMP. WHICH WILL PUMP THE EFFLUENT TO A PREMIER TECH MODEL PFS-200N/DN SPLITTER VALVE. (DENITRIFICATION UNIT).

5) FLOW SPLITTER

- 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

11) GENERAL

- FLECTRICAL PANEL FOR TANKAGE SHALL BE LOCATED OUTSIDE OF SUBJECT BUI NEAREST THE TANKAGE AS RECOMMENDED BY ECOFLO.
- SNOW STORAGE SHALL NOT BE PLACED OVER THE SEWAGE SYSTEM COMPONEN THE SEWAGE SYSTEM HAS NOT BEEN DESIGNED TO SUPPORT TRAFFIC LOADING, SUCH, THE RISK OF ANY VEHICULAR TRAFFIC SHOULD BE MINIMIZED WITH THE IN 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 TH OF ANY CONSTRUCTION ROUTES OR PATHWAYS OVER THE SYSTEM THE BACKWASH WATERS FROM ANY WATER TREATMENT UNIT. SUCH AS WATER SHOULD NOT DISCHARGE INTO THE SEWAGE SYSTEM.
- THE SEWAGE SYSTEM HAS BEEN DESIGNED TO ACCEPT ONLY WATER FROM DOM FIXTURES - NO FLOOR DRAINS, WASHWATER, ETC ARE TO BE DIRECTED TO SYSTE
- CONTRACTOR SHALL BE QUALIFIED AND REGISTERED UNDER PART 8 OF THE ON BUILDING CODE.
- ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH THE LATEST BY-LAWS, REGULATIONS.
- CONTRACTOR SHALL REVIEW DRAWINGS IN DETAIL AND SHALL INFORM THE CONS 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 BECO WITH THE SITE AND SUBSURFACE SOIL CONDITIONS TO DETERMINE SUITABLE ME
- CONSTRUCTION THE FIRM OF PATERSON GROUP INC. HAS PROVIDED DESIGN SERVICES ONLY FOR SUBJECT SEWAGE SYSTEM. THE DESIGN HAS BEEN CARRIED OUT IN ACCORDANCE MANUFACTURER'S GUIDELINES AND OUR INTERPRETATION OF PART 8 OF THE ON BUILDING CODE.
- IF THIS FIRM IS TO COMPLETE ANY CONSTRUCTION INSPECTION(S), ADDITIONAL F APPLIED. CONFIRMATION OF PAYMENT WILL BE REQUIRED PRIOR TO THE INSPEC
- THE TEST HOLE INFORMATION PROVIDED. IS INTENDED TO BE USED FOR DESIGN ONLY, AND SHOULD NOT BE RELIED UPON FOR CONSTRUCTION PURPOSES. IF DISCREPANCIES ARE FOUND DURING THE CONSTRUCTION PROCESS, IT IS THE CI RESPONSIBILITY TO CONTACT THIS FIRM TO MAKE ANY NECESSARY COMMENTS REVISIONS. ADDITIONAL REVISIONS ARE NOT CONSIDERED PART OF THE DESIGN AND WILL BE CONSIDERED AS AN ADDITIONAL COST.
- REFER TO PATERSON GROUP DRAWING No. PH4600-1(rev.3) FOR THE SEWAGE SY I AYOUT

	TICEN	M. S. KILLAM 100221103					
	20/08/24	Revised to Re-Use Existing Ecoflo	4				
	20/06/24	Revised to Ecoflo Treatment Unit	3				
LDING	19/03/24	Issued for Preliminary Review	2				
ITS.	14/10/22	Issued for Septic Permit	1				
, AND AS	26/09/22	Issued for Preliminary Review	0				
STALLATION	DD/MM/YY	DESCRIPTION	REV.				
HE CREATION SOFTENER, MESTIC TYPE EM. TARIO CODES AND SULTANT OF DME FAMILIAR ETHODS OF R THE CE WITH THE ITARIO	Client: PREMI Project: PROPO	PATERSON BROUP	то				
LIENT'S OR WORKS	135 CARDEVCO ROAD OTTAWA (CARP), ONTARIO Drawing:						
STEM	SEWAGE SYSTEM DETAIL & NOTES						
	Scale:	Drawn by:	11/				
	N.T.		HV				
	Date: 08/20	24 Checked by:	ИK				
	Drawing No.:	· · · · · ·					
	PI	H4600-2(rev.4) gs\hydrogeology\ph46xx\ph4600 - premier	·				
		rdevco road\2024\ph4600-2(rev.4).dwg					

PROFESSION