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Dymech Engineering Inc.

1359 Coker Street, Ottawa (Greely), ON K4P 1A1 Geotechnical Engineering Environmental Engineering Hydrogeology Geological Engineering Materials Testing Building Science

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Attention: Mat Main

Subject:

Hydrogeological Assessment and Terrain Analysis 1353 Coker Street Ottawa (Greely), Ontario

HYDROGEOLOGICAL ASSESSMENT

INTRODUCTION

Further to your request, Paterson Group (Paterson) conducted a Hydrogeological Assessment and Terrain Analysis in support of a site plan application for the proposed warehouse addition to be located at 1353 Coker Street in Ottawa (Greely), Ontario. Please refer to Figure 1 - Key Plan attached for the site location.

The purpose of this work has been to determine the suitability of the water supply aquifer underlying the subject site to service the proposed development in support of a site plan application.

The subject site is an approximately 0.27 hectare (ha) parcel. The ground surface across the site is relatively flat, with a general downslope direction to the south. The general overburden groundwater flow direction is assumed to be south towards the Osgoode Gardens Cedar Acres municipal drain.

The subject site is bordered to the north, east and west by developed commercial properties and to the south by Coker Street followed by additional developed commercial properties. The subject site and all of the neighboring land parcels are zoned RG3 (Rural General Industrial Zone subzone 3).

A Hydrogeological and Terrain Analysis Pre-consultation was completed with a City of Ottawa Hydrogeologist on November 11, 2021, where it was determined that as the

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application is for Site Plan application, that nitrate reduction technologies would be allowed in support of the Sewage System Impact Assessment (Terrain Analysis).

DESCRIPTION OF SUBJECT SITE

The subject site is an approximately 0.27 ha lot and is currently occupied by a one storey commercial building. The Site Plan application is for a proposed warehouse addition. Please refer to D.B. Grey Engineering Inc. Drawing A-002 - New Site Plan + Notes attached for proposed site layout. The subject site is currently serviced by an onsite sewage system and a private drilled well, and a new sewage system is proposed to be located in the same location as the old sewage system.

The existing well, hereafter referred to as Test Well 1 (TW1) is the well which will be servicing both the proposed building addition and the existing development.

Paterson has completed a replacement sewage system design for the proposed development. A septic flow value of 1,900 L/day was used for the existing building and a septic flow value of 1,700 L/day was calculated for the proposed building addition. This results in a total daily water demand calculation of 3,600 L/day.

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).

Karst Mapping

Available Karst mapping (OGS GRS005) was reviewed as part of this assessment. The available mapping does not indicate the presence of any inferred or potential karstic features. Furthermore, no indication of karstic features were observed during the site visits completed by Paterson personnel.

FIELDWORK PROGRAM

As a means to demonstrate the adequacy of the aquifer underlying the subject lands, with respect to water quality and quantity, the onsite water supply well tested. A WWR was not available for the well, however Paterson field staff measured the well while the existing submersible pump was removed for the constant rate pumping test. The well, referred to as TW1, was measured to have a 150 mm diameter steel casing extending to a depth of 16.1 m below the ground surface (bgs). The total depth of the well was measured to be 22.1 m bgs. Based upon available geological mapping, the drift thickness at TW1 varies from 5 to 10 m bgs. Refer to Paterson Drawing PH4407-3 for the location of TW1.

As a means to evaluate the water supply aquifer intercepted by the well, the well was subjected to a 8 hour constant rate pumping test. The pumping test was conducted on February 3, 2022 under the full-time supervision of Paterson personnel.

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A submersible pump was provided by Air Rock for the 8 hour pumping test. A licensed water well technician was retained to complete the necessary plumbing related activities. The existing pump was removed from the well by a licensed well technician, and a rented submersible pump was used for the pumping test. A discharge hose assembly with a gate valve was connected to the rented pump. The discharge line was placed at a sufficient distance to ensure that the discharge water was being directed away from the well. Upon completion of the test, the pump was removed, the existing pump was re-installed, and the well was disinfected by Air Rock.

The pumping test was carried out at a pumping rate of approximately 19 L/min for a duration of 8 hours, after which the pumping rate was reduced to 9 L/min for a half hour in an attempt to lower turbidity levels. During the pumping test, the pumping rate was periodically measured using the timed volume correlation method. The pump rate was maintained within 5% of the selected pump rate. The static water level was recorded manually and an electronic datalogger (VanEssen TD-Diver) was installed in the test well prior to the start of the pumping test. A 19 L/min pumping rate was chosen. This rate provides approximately three times the maximum total daily design volume for the septic system during the 8 hour pumping test. Combined with the unknown nature of the available well water quantity prior to the pumping test, 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 100 % recovery in less than one minute after the completion of the pumping test.

Groundwater samples were collected at 4 hours and 8.5 hours after the start of pumping. Prior to collection of the groundwater samples, the free chlorine residual was verified to be 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, and Volatile Organic Compounds (VOC's).

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 the Eurofins 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 8.5 hour pumping test. The parameters tested at the well head included: pH, total dissolved solids, conductivity, turbidity, apparent colour and temperature.

The generator which powered the rented submersible pump for the pumping test temporarily failed at approximately the 6 hour mark of the pumping test, however Paterson

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was able to quickly restart the generator to finish the 8 hour test. Due to the spike in the data from the generator failure, the data collected from the first 6 hours of the pumping test was used in support of this study, however the data from all 8.5 hours is included in this report.

The turbidity level recorded during the field program was higher than the maximum of 5 NTU (field measurement of approximately 6.5 NTU) during the 8 hour constant rate pumping test. After 8 hours of constant rate pumping at 19 L/min, the pumping rate was lowered to 9 L/min for a half hour. The recorded field turbidity after lowering the rate was on the order of 3.4 NTU.

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)	367					
Pumping Rate (L/min)	19					
Pre-test Static Water Level (m)	3.2					
Maximum Drawdown (m)	1.9					
Available Drawdown (m)	18.95					
% Drawdown During Pumping Test	5					
Specific Capacity (L/min/m drawdown)	10					

The drawdown data was analyzed using the Theis and Cooper Jacob methods of analysis. Aquifer transmissivity is estimated to be approximately 367 m²/day.

The pumping test results show that TW1 has a high yield to support the water demands for the proposed development. Overall, maximum drawdown at a constant pumping rate for a period of 8 hrs was approximately 1.9 m (5 % of the available drawdown). 95% recovery was achieved in less than one minute after the end of pumping. The water level was observed to be rising during the constant rate pumping test, with the measured drawdown at the end of the pumping test recorded at 1.0 m.

The total volume of water pumped during the 8 hour pumping event was approximately 9,120 L. This is approximately three times the maximum total daily design volume of water required to support the development as part of the site plan application (approximately 3,600 L/day).

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Observations from dataloggers placed in TW1 prior to the pumping test indicated that TW1 is hydraulically connected to other water supply wells. The aquifer drawdown recorded outside of the pumping test period is generally on the order of 0.5 m. The recovery from the observed drawdown was very quick, typically on the order of one minute. Groundwater quantity issues are not expected due to the minimal volume of daily water takings required by the proposed development.

The suitability of the aquifer to supply the proposed development was assessed using the methodology provided in 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 development under typical usage.

Given the analyses presented and summarized above, it is our opinion that there is an adequate supply of water to service the proposed development in addition to the neighboring lots whose wells may intercept a similar aquifer.

Available water well records (WWR's) of the neighbouring properties on the MECP Well Record mapping website indicated that the wells have generally been screened in either a limestone or underlying sandstone bedrock unit. However, two (2) wells are recorded to be screened in gravel with casing extending to a minium of 11.6 m. Surrounding WWR's are attached to this report.

Of the two WWR's noted to be screened in gravel, one of the WWR's is mislocated (WWR ID 1507222) and the other WWR (WWR ID 1532070) is noted to have a 10.4 m thick grey clay with some stones layer as well as 17.4 m of steel casing separating the "screened" portion of the well from the ground surface. Additionally, the WWR with ID 1532070 is located up and cross gradient from the subject site, as general shallow groundwater flow direction is assumed to be south towards the Osgoode Gardens Cedar Acres Municipal Drain. Due to the isolation provided by the 17.4 m of steel casing, the wells location being up and cross gradient from the subject site, and the surrounding lots in closer proximity to the WWR's location containing private sewage systems, mitigation measures are not needed.

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Water Quality

TW1 is currently supplying the existing building on site, as such the client is familiar with the water quality which TW1 provides.

Field Data

Turbidity, electrical conductivity, total dissolved solids (TDS), pH, apparent colour 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 laboratory water quality obtained from the pumping test of TW1 is provided in Table 2a 2b, and 2c below and the laboratory analyses reports can be found attached.

TABLE 2a: GROUNDWATER MICROBIOLOGY & GENERAL GEOCHEMISTRY									
		OD	WS	TW1					
PARAMETER	UNITS	LIMIT	TYPE	GW1 (4 hr) 2022-02-03	GW2 (8.5 hr) 2022-02-03				
MICROBIOLOGICAL									
Escherichia Coli (E.Coli)	ct/100mL	0	MAC	0	0				
Total Coliforms	ct/100mL	0	MAC	0	0				
GENERAL CHEMICAL - HEA	ALTH RELATE	D							
Fluoride (F)	mg/L	1.5	MAC	0.16	0.15				
Ammonia (N-NH ₃)	mg/L	-	-	< 0.010	< 0.010				
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	-	-	0.210	0.402				
Turbidity (Field)	NTU	1.0 (5.0)	MAC/AO	9.41	3.41				
Turbidity (Laboratory)	NTU	1.0 (5.0)	MAC/AO	4.9	2.2				
GENERAL CHEMICAL - AES	STHETIC REL	ATED							
Alkalinity (as CaCO3)	mg/L	30-500	OG	246	244				
Chloride (Cl)	mg/L	250	AO	97	96				
Colour	TCU	5	AO	67	28				
Colour (Field - Apparent)	TCU	5	AO	11	5				
Conductivity	uS/cm	-	-	848	840				
Dissolved Organic Carbon	mg/L	5	AO	2.4	2.5				
Hardness (as CaCO3)	mg/L	100	OG	384	380				
Ion Balance	unitless	-	-	0.98	0.98				
pН	unitless	6.5-8.5	AO	8.02	8.07				
Phenols	mg/L	-	-	< 0.001	< 0.001				
Sulphate (SO ₄)	mg/L	500	AO	70	70				
Sulphide (S2)	mg/L	0.05	AO		< 0.02				
Tannin & Lignin	mg/L	-	-	0.9	0.9				
Total Dissolved Solids	mg/L	500	AO	551	546				

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	and the second standards		WS		5.652		
0.0000000000	1005-000	00		TW1			
PARAMETER	UNITS	LIMIT	TYPE	GW1 (4 hr) 2022-02-03	GW2 (8.5 hr) 2022-02-03		
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	0.40	0.40		
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	-	-	101	101		
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	0.008	0.003		
Iron (Fe)	mg/L	0.3	AO	0.58	0.46		
Lead (Pb)	mg/L	0.01	MAC	< 0.001	< 0.001		
Magnesium (Mg)	mg/L	-	-	32	31		
Manganese (Mn)	mg/L	0.05	AO	0.03	0.03		
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	-	-	2	2		
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	28	28		
Strontium (Sr)	mg/L	-	-	0.306	0.293		
Thallium (TI)	mg/L	4	104	< 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:

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OG = Operational Guideline

2. Shaded Concentration Indicates an Exceedance of the ODWS Objective

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TABLE 2c: GROUNDWATER GEO	CHEMISTRY -					
		OD	TW1			
PARAMETER	UNITS	LIMIT	TYPE	GW1 (4 hr)	GW2 (8.5 hr)	
VOCs Surrogates		-		2022-02-03	2022-02-03	
1,2-dichloroethane-d4	%			110	120	
4-bromofluorobenzene	%	-	-	82	73	
Toluene-d8	%	-	-	119	103	
Volatiles	70	-	-	113	105	
1,1,1,2-tetrachloroethane	und.	-	-	< 0.5	<0.5	
1.1.1-trichloroethane	µg/L	-	-	<0.4	<0.4	
1,1,2,2-tetrachloroethane	µg/L		-	<0.4	<0.4	
1,1,2-trichloroethane	µg/L	-	-	<0.4	<0.5	
1,1-dichloroethane	µg/L	-	-	<0.4	<0.4	
1,1-dichloroethylene	µg/L	- 14.0	MAC	<0.4	<0.4	
1,2-dichlorobenzene	µg/L	200.0	MAC	<0.4	<0.5	
	µg/L					
1,2-dichloroethane	µg/L	5.0	IMAC	<0.2	<0.2	
1,2-dichloropropane	µg/L	-	-	<0.5	<0.5	
1,3,5-trimethylbenzene	µg/L	-	-	<0.3	<0.3	
1,3-dichlorobenzene	µg/L	-	-	< 0.4	<0.4	
1,3-Dichloropropylene (cis+trans)	µg/L	-	-	< 0.3	<0.3	
1,4-dichlorobenzene	µg/L	5.0	MAC	< 0.4	< 0.4	
Acetone	µg/L	-	-	<30	<30	
Benzene	µg/L	1.0	MAC	< 0.5	<0.5	
Bromodichloromethane	µg/L	-	-	< 0.3	<0.3	
Bromoform	µg/L	-	-	< 0.4	< 0.4	
Bromomethane	µg/L	-	-	< 0.5	<0.5	
c-1,2-Dichloroethylene	µg/L	-	-	< 0.4	< 0.4	
c-1,3-Dichloropropylene	µg/L	-	-	< 0.2	< 0.2	
Carbon Tetrachloride	µg/L	2.0	MAC	< 0.2	< 0.2	
Chloroethane	µg/L	-	-	< 0.2	< 0.2	
Chloroform	µg/L	-	-	< 0.5	< 0.5	
Dibromochloromethane	µg/L	-	-	< 0.3	< 0.3	
Dichlorodifluoromethane	µg/L	-	-	< 0.5	< 0.5	
Dichloromethane	µg/L	50	MAC	<4.0	<4.0	
Ethylbenzene	µg/L	140	MAC	< 0.5	< 0.5	
Ethylene Dibromide	µg/L	-	-	< 0.2	< 0.2	
Hexane	µg/L	-	-	<5	<5	
m/p-xylene	µg/L	-	_	< 0.4	< 0.4	
Methyl Ethyl Ketone (MEK)	µg/L	-	-	<10	<10	
Methyl Isobutyl Ketone (MIBK)	µg/L	-	-	<10	<10	
Methyl Tert Butyl Ether (MTBE)	µg/L	15	AO	<2	<2	
Monochlorobenzene	µg/L	80	MAC	< 0.5	< 0.5	
o-xylene	µg/L	-	-	< 0.4	< 0.4	
Styrene	µg/L	-	-	< 0.5	< 0.5	
t-1,2-Dichloroethylene	µg/L			< 0.4	< 0.4	
t-1,3-Dichloropropylene	µg/L	-	-	< 0.2	< 0.2	
Tetrachloroethylene	µg/L	10	MAC	< 0.3	< 0.3	
Toluene	µg/L	60	MAC	< 0.4	< 0.4	
Trichloroethylene	µg/L	5	MAC	< 0.3	< 0.3	
Trichlorofluoromethane	µg/L	-	-	< 0.5	<0.5	
Vinyl Chloride	µg/L	1	MAC	<0.2	<0.2	
Xylene; total	µg/L	90	MAC	< 0.5	<0.5	

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AO = Aesthetic Objective

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2. Shaded Concentration Indicates an Exceedance of the ODWS Objective

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The bacteriological test results from TW1 at 1353 Coker Street (Certificate of Analysis - Report No. 1971215) indicated that the test samples at the 4 and 8.5 hour interval were non-detect (0 ct/100 mL) for E.Coli and Total Coliforms.

Volatile Organic Compounds (VOC's) were not detected in the groundwater samples taken from TW1.

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:

- \Box Hardness (As CaCO₃)
- Total Dissolved Solids (TDS)
- Colour
- 🗅 Iron

Exceedances of the above parameters are not uncommon of the water supply in the subject aquifer. As TW1 currently supplies potable water to the existing building, the client is familiar with the quality of the groundwater. Each of these groundwater parameters are discussed in detail below.

Hardness as CaCO₃

Hardness, expressed as calcium carbonate, an operational guideline, does not appear in the Ontario Drinking Water Standards, Objectives and Gudielines (ODWSOG). Rather, it appears in the Technical Support Documents for Ontario Drinking Water Standards, Objectives and Guidelines as a parameter with an operational guideline of 100 mg/L. At the measured concentration of 384, and 380 mg/L in the test wells, the water is considered to be very 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 hardness concentration can be treated using conventional water softener technologies.

TDS

Total dissolved solids (TDS) refers to the concentration of inorganic substances dissolved in water. The main constituents are typically chloride, sulphates, calcium, magnesium and bicarbonates. There are various levels of the constituents at a low level and it is not anticipated that they will cause an issue with taste. A point of use reverse osmosis unit may be installed if the owner desires for drinking purposes. As such, no taste problems will occur when the system is used.

The Langelier Saturation Index (Langelier, 1936) is used to predict the calcium carbonate stability of water. It indicates whether the calcium carbonate will precipitate, dissolve, or be in equilibrium with water. The Langelier calculation provided an LSI of 0.8. 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 LSI of 0.8, a high

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amount of scaling is not anticipated, and, as the water is super-saturated corrosion is unlikely to occur. Based on the range of stability in the positive direction, there are no mitigative measures needed for corrosion or scaling. If taste concerns or scaling concerns arise, then a reverse osmosis unit can be installed. See Langelier Saturation Index Calculation attached for calculation details.

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, it can be reduced from the water supply, if desired, through the use of a manganese greensand treatment.

A Hach DR900 colorimeter was used to measure field colour (apparent colour) in the groundwater during the constant rate pumping test. Apparent colour in the groundwater was measured to be 5 TCU at the end of the pumping test. The elevated colour levels detected in the lab samples is attributed to the precipitation of iron out of the groundwater.

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 the test well is considered to be reasonably treatable in accordance with Procedure D-5-5. It is recommended that an iron filter be used to reduce the levels of iron and reduce the potential for excessive precipitate occurring in the water supply system, if desired.

Turbidity

Turbidity, which is a health-related and aesthetic parameter, was detected in the laboratory test samples at value of 4.9 NTU at the 4 hour portion of the test, and 2.2 NTU at the endpoint of the pumping test of the test well. Continued pumping showed a decrease towards the end of the test, and was especially noted when the pumping rate was reduced to 9 L/min. It is expected further development of the well would further reduce turbidity values.

The ODWSOG maximum acceptable concentration for turbidity, as a health-related parameter, in drinking water entering the distribution system is 1 NTU. The 1 NTU Guideline comes with a note that indicates that if turbidity is present, particular care must be taken during testing to ensure that the bacteria requirements of Table 1 are met. The bacteriological sample results indicated that E.Coli and Total Coliforms were not present in the groundwater, which satisfies the ODWO of 1 NTU.

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The Aesthetic Objective for turbidity in drinking water reaching the consumer is 5 NTU. The maximum concentration considered reasonably treatable (MCCRT) for Turbidity is 5 NTU. The field and laboratory results are below the aesthetic objective and MCCRT. Additionally, precipitation of iron, magnesium, and calcium can contribute to laboratory turbidity meaning the actual value is likely lower than the reported values. Finally, as the well is likely to be developed further, it is likely that turbidity values would also be decreased in the future.

TW1 is currently supplying the existing building on site, as such the client is familiar with the water quality which TW1 provides. No treatment for elevated turbidity is proposed.

Sodium

Sodium (Na), an aesthetic parameter, was detected in the laboratory test samples at a concentration of 28 mg/L in both tests, which does not exceed the ODWSOG aesthetic objective of 200 mg/L. It should be noted that sodium in drinking water can be increased by treatment methods for other parameters such as hardness. Sodium has a MCCRT 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.

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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 PG6052-1.REV.05. dated November 24, 2023). On December 17, 2021 four (4) test pits were excavated on the property for the design of the proposed warehouse addition and its associated infrastructure. The location of the test pits on the property are delineated on the Test Hole Location Plan, Drawing No. PG6052-1, attached.

The test hole 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.

The test pits were advanced to a maximum depth of 3.2 m below ground surface (bgs). Bedrock was not encountered during the test pit program. Based upon available geological mapping, the drift thickness across the site varies from 5 to 10 m bgs

According to the test pit logs, the subsurface profile consisted of a fill of varying compositions extending to depths of 0.6 to 0.8 m bgs generally underlain by a brown silty sand. The underlying brown silty sand layer was not seen in TP2-21. Underlaying the brown silty sand was a stiff to very stiff grey silty clay. Groundwater was observed at depths between 0.4 to 1.0 m bgs in the test pits.

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 be interpreted as descriptive of conditions at locations other than those described by the boreholes themselves.

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

Hydrogeological Sensitivity of the Site

The subject site is currently occupied by a one storey commercial building which fronts onto Coker Street. The subject site is bordered to the north, east and west by developed commercial properties and to the south by Coker Street followed by additional developed commercial properties. All surrounding properties are on private services. The adjacent properties are serviced by private wells and septic systems.

The ground surface across the site is relatively flat, with a general downslope direction to the south. The general overburden groundwater flow direction is assumed to be south

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towards the Osgoode Gardens Cedar Acres municipal drain. The regional groundwater flow is considered to be in an southeasterly direction, towards the North Castor River.

The overburden generally consists of a fill overlying a brown silty sand which is underlain by a grey silty clay. Bedrock was not encountered during the field program. 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.

Available Karst mapping was reviewed as part of this assessment and does not indicate the presence of any inferred or potential karstic features.

As the proposed site does not have bedrock within 2.0 m of the ground surface, the site is not considered hydrogeologically sensitive. Separation distances are not required to be increased between the septic components and the onsite well.

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

Conceptual Lot Development Plan

It is proposed to add a warehouse to the existing site which is currently occupied by a one storey commercial building. The location of the existing and proposed structures can be found on the attached PH4407 - 3 - Water Well location 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 and is designed to demonstrate that the minimum separation distances can be achieved.

Proposed Sewage System

Paterson has completed a replacement sewage system design for the proposed development. A septic flow value of 1,900 L/day was used for the existing building and a septic flow value of 1,700 L/day was calculated for the proposed building addition. This results in a total daily design sewage flow (TDDSF) of 3,600 L/day. A tertiery treatment system has also been proposed, consisting of the Waterloo Biofilter plus the WaterNOx-LS system, to ensure the nitrate has reached acceptable concentrations by the property boundary. Refer to the approved OSSO Septic Permit attached for more specific details. Please note that once the Site Plan application has been approved, the existing sewage system will be removed at the time of construction and the new one (OSSO permit #22-059) will be installed. The septic flow values were calculated in accordance with the OBC and are as follows:

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Existing Building:

- **Given Sectors** Factory (no showers) with 6 employees = $6 \times 76 \text{ L/day} = 450 \text{ L/day OR}$
- Number of water closets = 2 x 950 L/day = 1,900 L/day

Proposed Building Addition:

- □ Warehouse with 5 bay door = 5 x 150 l/day = 750 L/day; AND
- \Box Number of water closets = 1 x 950 L/day = 950 L/day

Combined Existing Building and Proposed Building Addition:

Existing Building (1,900 L/day) + Proposed Building Addition (1,700 L/day)
 = 3,600 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	0.27 Ha
Impervious area %	77 %
Daily sewage flow	3.6 m ³
Concentration of nitrate in effluent (Value based on typical effluent concentration)	40 mg/L
Concentration of nitrate in effluent with treatment (Value based on tertiary treatment system with 90% nitrate red	4 mg/L uction)
Surplus Water (The surplus water value was estimated based on Environmovalues with a soil type comprised of fine sandy loam (Urban sources.)	
 Combined infiltration factor based on: Topography infiltration factor Soil texture infiltration factor Cover infiltration factor 	0.70 0.30 0.30 0.10

The topography infiltration factor of 0.30 is based upon a flat land with average slope of <0.6 m / km for the proposed development.

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The soil texture infiltration factor was based upon an average of "open sandy loam" with a value of 0.4 and "medium combinations of clay and loam" with a value of 0.2 which is a reasonable generalization based upon the site investigations and available geological mapping.

The "vegetative cover infiltration factor" was calculated as 0.1 based upon the minimum value for cultivated land.

The calculation for a conventional sewage system results in a predicted nitrate concentration of 35.56 mg/L nitrate concentration for the subject site, using a value of 40 mg/L nitrate concentration within the effluent. This value was based upon using a septic flow value of 3,600 L/day for the daily sewage flow. It is expected that the actual usage should be lower.

An existing approved tertiary treatment system technology capable of reducing the nitrate loading in the effluent is the Waterloo Biofilter brand. The system has an available nitrate reduction of 25 to 35% based upon the standard single pass system and 50 to 65% based upon a double pass re-circulation system. With the addition of the WaterNOx system, 90 to 95% total nitrogen removal can be achieved. This would reduce the nitrate concentration in the effluent from 40 mg/L down to as low as 4 mg/L. Provided the value of 35.56 mg/L of nitrates for the fully sized system, a 90% reduction would provide a value of 3.6 mg/L at the property boundary.

A WaterNOx system has been included in the new septic design for the property, as shown in the attached Paterson drawing, PH4407-1-REV.02. The approved OSSO septic permit (OSSO file number 22-059) for the septic system design is attached to this report.

The WaterNox-LS system is a tertiary nitrate reduction technology which has demonstrated through third party verification (see attached) that it can achieve greater than 90% total nitrogen removal which is greater than the 72% nitrate reduction required to attain a predictive nitrate concentration of less than 10 mg/L at the property boundary. The third party review was done by the Bureau de Normalisation du Quebec (BNQ) which is a certification program that is accredited by the Standards Council of Canada. Furthermore, based on the regional geography and WWR records in the area, there is sufficient vertical and horizontal separation between the leaching bed/property boundary and neighbouring water wells such that any impacts are anticipated to be negligible.

Based on the results of the predicted nitrate impact assessment, it is our opinion that the proposed property can adequately support the proposed commercial development without having an adverse impact on the underlying bedrock aquifer.

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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 warehouse addition.
- 2. As TW1 currently provides potable water to the existing building, the client is familiar with the quality of the groundwater.
- 3. The preferred water supply aquifer intercepted by the test wells contains a water supply that is potable, and contains only elevated concentrations of Hardness, TDS, Colour, and Iron. All of the parameters can be treated with current readily available water conditioning equipment.
- 4. The sodium concentrations were 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.
- 5. A residential grade water softener is recommended to facilitate the reduction of the hardness concentration. 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.
- 6. If desired, the client can use point-of-use reverse osmosis to reduce total dissolved solids values.
- 7. If desired, the client can use a iron filter to treat the potential iron values.
- 8. If desired, the client can use a carbon filter to treat the potential colour values.
- 9. Any private water supply wells (drilled) and the onsite sewage system components (i.e treatment units, distribution piping, and holding tanks) must have a minium of 15 m horizontal separation as per the Ontario Building Code 8.2.1.6 (2012). The current approved design has been certified by the OSSO to meet the required setbacks.
- 10. 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 proposed Waterloo Biofilter WaterNOx system is used.
- 11. The subject site is sufficient in size to accommodate a new sewage system and meet all the regulatory separation criteria

- 12. 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.
- 13. The results of the Hydrogeological Assessment and Terrain Analysis have provided satisfactory evidence that the subject site can support the proposed warehouse addition with respect to water quality, quantity and sewage system placement.

We trust that this satisfies your present requirements. Should you have any questions regarding this submission, please do not hesitate to contact the undersigned.

Yours truly,

PATERSON GROUP INC.

Erik Ardley, P.Geo

Michael S. Killam, P.Eng.

Attachments:

- Figure 1 Key Plan
- MECP Water Well Records
- Eurofins Certificate of Analysis
- Paterson Test Pit Logs
- AQTESOLV Pumping Test Analysis Reports
- Nitrate Impact Assessment Calculations
- Langelier Saturation Index Calculation
- Waterloo Biofilter report WaterNOx-LS Third Party Testing Summary
- D.B. Grey Engineering Inc. Drawing A-002 New Site Plan + Notes
- Paterson Drawing PG6052-1 Test Hole Location Plan
- Paterson Drawing PH4407-1(Rev.03) Sewage System Layout Plan
- Paterson Drawing PH4356-3 Water Well Location Plan
- PH4407-MEMO.05 Response to City of Ottawa Review Comments, dated October 8,2024
- Approved OSSO Septic Permit



Paterson Group Inc.

Head Office and Laboratory 154 Colonnade Road South Ottawa - Ontario - K2E 7J5 Tel: (613) 226-7381 Northern Office and Laboratory 63 Gibson Street North Bay - Ontario - P1B 8Z4 Tel: (705) 472-5331 **St. Lawrence Office** 993 Princess Street Kingston - Ontario - K7L 1H3 Tel: (613) 542-7381



FIGURE 1

KEY PLAN

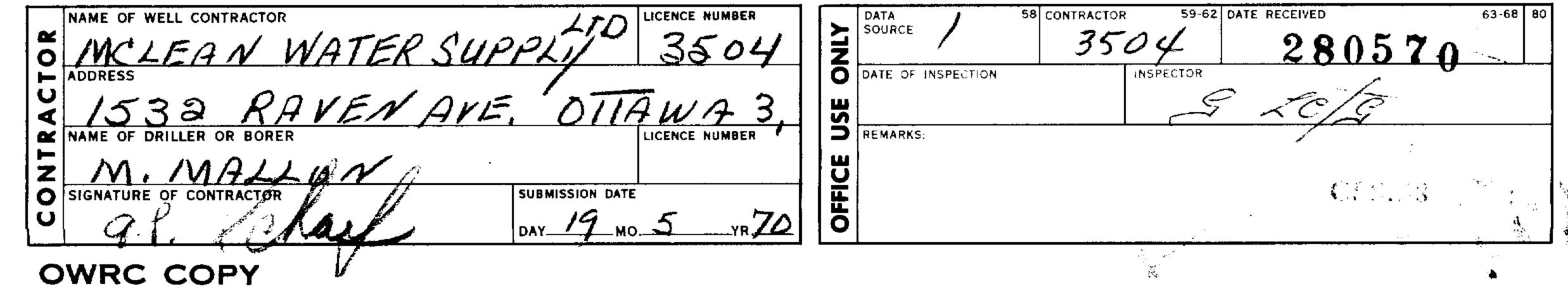
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FINAL	\$4 1 WATER SUPPLY	S 🗌 ABANDONED, INSUFFICIENT SUPPLY	- Well#2	N	
STATUS	2 🗌 OBSERVATION WE 3 🗍 TEST HOLE 4 🕵 RECHARGE WELL	LL 6 ABANDONED POOR QUALITY 7 UNFINISHED 9 D DEWATERING		150	1
	55-56 1 DOMESTIC	S COMMERCIAL	-		6
WATER USE	2 STOCK 3 IRRIGATION 4 INDUSTRIAL	 € MUNICIPAL 7 □ PUBLIC SUPPLY ● COOLING OR AIR CONDITIONING 	4==	T	
	D OTHER	• 🗌 NOT USED	PARKWA	nen I	Den Pouscour LA.
METHOD OF	I CABLE TOOL 2 C ROTARY (CONVEN 3 ROTARY (REVERSI		Impage 1		01042
CONSTRUCT		DRIVING	DRILLERS REMAI	RKS	21042
		WELL CONTRACTOR		58 CONTRACTOR 59	
ADDRESS	ITON DRILLING 129, GREELI	(XT			
NAME OF WE	LL TECHNICIAN	WELL TECHNICIAN'S			
Z PETE	TE VA STANICOR	SUBMISSION DATE	OFFICE		
	RY OF THE ENVIRO	DAY <u>26 NO 04 VER</u>	<u> </u>	<u>_</u>	FORM NO. 0506 (11/86) FORM 9
1011/1011					

Min of th	iistry he	,	A/AT		-	Water Resou		CO	RD
Ontario Env	vironment			15223		MUNICIP	CON.		
COUNTY OR DISTRICT		TOWNSHIP BOROUGH CITY			-	BLOCK TRACT. SUR	14 15	1	Lot 23-27
OWNER CURNAME F	- CARIETON	ADDRESS							J 7" 00
DONW	a construct	LON 6979	SHADOW	RIDGE,	GREE	MASIN CODE	DAY_2	<u>) мо</u> '''	Ч. 20 Ч. 20 Ч. 20
21	ZONE EASTING U T M 10 12 12					31			
	- P	G OF OVERBURDEN	AND BEDRO	CK MATERI				DEPTH	· FEET
GENERAL COLOUR	COMMUN MATERIAL	OTHER MATI			GENEF	RAL DESCRIPTION	- <u>11 - 1</u> .	FROM	TO
BROWN	SAND Y GRAVEL	BAUDERS						9	57
GREY	HMESTORE	BOULDERS						57	62
			1 1 1 1 1		4 I I	1 1 1 1		111	
31 L	<u>. </u>								
	ATER RECORD	51 CASING & (OPEN HOLE R	RECORD		54 (S) OF OPENING OT NO)	31-33 DIAM	TER 34-38	75 80 LENGTH 39-40
WATER FOUND AT - FEET	KIND OF WATER	INSIDE DIAM MATERIAL INCHES	WALL D TH:CKNESS INCHES FRU	DEPTH - FEET		ERIAL AND TYPE		INCHES DEPTH TO TOP OF SCREEN	FEET 41-44 30
ω^{i}	FRESH 3 □ SULPHUR SALTY 4 □ MINERALS 6 □ GAS	10-11 10#STEEL 20 GALVANIZED 30 CONCRETE		59					FEET
2	FRESH 3	17-16 4 OPEN HOLE	e18 8 C) 59	21 DEPTH	PLUGGI	NG & SEA	0. TXRE (CEM	ENT GROUT.
2	□ FRESH 3 □ SULPHUR 24 □ SALTY 6 □ GAS	K 10 STEEL 20 GALVANIZED 30 CONCRETE 40 SOPEN HOLE 50 PLASTIC	5	3 62	FROM				ACKER. ETC)
1	☐ FRESH 3 ☐ SULPHUR 21	24-25 2 1 🗆 STEEL 2 🗆 GALVANIZED		27-	30	18-21 22-25	Cerical Bertonii "(Insser	E Skur	erer .
	FRESH 3	G 3 CONCRETE 4 OPEN HOLE 5 PLASTIC				26-25 30-33	Tresser	e querte	d)
71 PUNPING TEST N	11-2		-16 🥢 17-11			LOCATION	OF WEL	.L	
STATIC LEVEL	WATER LEVEL 25		PUMPING RECOVERY			LOW SHOW DISTAN		FROM ROAD	AND
O TEST	40 22-24 IS MINUTES		40"	ACTE	zown De		r		N
SIF FLOWING, GIVE RATE	EET FEET FE 30-41 PUMP INTAKE	SET AT WATER AT END		<u> </u>		-/ 1			4
	GPM PUMP TYPE RECOMMENDE PUMP		40 44-0		4-				
50-53	OW 🕅 DEEP SETTING	FEET RATE C	40 _{GPM}						
FINAL	34 1 U WATER SUPPLY 2 OBSERVATION WE	S ABANDONED. INSUL ABANDONED POOR		11001 #3	3 V	4			
STATUS OF WELL	S TEST HOLE	7 UNFINISHED 9 O DEWATERING		"sum	·	150			
WATER	55-56 1 DOMESTIC 2 STOCK	S COMMERCIAL							
USE	3 🔲 IRRIGATION 4 💭 INDUSTRIAL 🗌 OTHER	7 D PUBLIC SUPPLY • X COOLING OR AIR COND • NOT		N					-D-
		BORING		PARKWA	1Ko. 2	*	2 Droff	HEOR AS	
METHOD OF CONSTRUCT	3 C ROTARY (REVERSI					N			
	S X AIR PERCUSSION			DRILLERS REM		J N	<u> </u>		
MAME OF WEL	NTON DRILLIN	GIRC HULLICE	CONTRACTOR'S	DATA SOURCE	58	4875			•3-•1 •0 88
ADDRESS	NTON DR 11.1.1.1. X 429, GREE	27, ONT.		SE	NSPECTION	INSPECT)R		
	THE VASTA	VOU T	L TECHNICIAN'S	D REMARKS		i			
SIGNATUR	OFTECHNICHT CONTECTOR	L SUBMISSION DATE	04 8	OFFICE				~ ~	s.Er
MINIST	RY OF THE ENVIRO	NMENT COPY		••••••••••••••••••••••••••••••••••••••			F	ORM NO. 0506	(11/86) FORM 9

County or District Osgoode 4 Osgoode Address Date completed 23 day 10 P_O. Box 124 Greely Ontario KdP IN4 Celevation RC Basin Code iii 21 Image: State of the state	$ \frac{1}{1} + 1$
County or District Township/Borough/City/Town/village Oold of other with the description Osegoode 4 Address Date completed 23 day 10 u P.O. Box 124 Greely, Ontario 12 KdP IN4 Osegoode RC Bit of the description RC Bit of the description RC Bit of the description Evaluation Bit of the description From Bit of the description <th< th=""><th></th></th<>	
LOG OF OVERBURDEN AND BEDROCK MATERIALS (see instructions) General colour Most common material Other materials General description D Brown Soil Loose Fill C Brown Clay Packed 4 Gray Clay Sticky 34 Gray Linestone Layered 51 Gray Linestone Modium 67	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
General colour Most common material Other materials General description I Brown Soil Loose Fill - Brown Clay Packed - Gray Clay Sticky - Gray Limestone - - Gray Limestone - -	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
Brown Clay Packed A Gray Clay Sticky	34 34 51 1 62
Brown Clay Sticky Sticky Gray Clay Sticky Sticky Gray Sand, Gravel, & Boulders Sticky Sticky Gray Limestone Layered Sticky	34 34 51 1 62
Gray Clay Sticky Gray Sand, Gravel, & Boulders 34 Gray Limestone Layered Gray Limestone 65	4 <u>51</u> 1 <u>62</u>
Gray Sand, Gravel, & Boulders Layered 51 Gray Limestone 67	1 62
Gray Limestone 51 Modium 67	
Modium 6	2 76
32 10 14 15 21 32 43 54 56 54 54 56 56 56 56 56 56 56 56 56 56 56 56 56	75 80
41 WATER RECORD 51 CASING & OPEN HOLE RECORD Sizes of opening Sizes of opening Diameter Weter found Inside Wall Depth - feet II Sizes of opening Inclusion	feet
at - feet Kind of water diam Material mickness From To U Material and type Depth at t	top of screen 30
2 Galvanized	feet
15-18 1 Fresh 4 Minerals 5 □ Plastic 61 PLUGGING & SEALING RECC	
20-23 1 Fresh 3 Sulphur 24 2 Galvanized 20-23 - Fresh 4 Minerals 3 Concrete	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	
2 Saity 6 Gas 2 Galvanized 2 Galvanized 2 Galvanized	
30-33 I Fresh 3 Sulphur 34 80 3 Concrete 2 Salty 6 Gas 5 Plastic 2 20-33 80 80	
71 Pumping test method ¹⁰ Pumping rate ¹¹⁻¹⁴ Duration of pymping ₁₇₋₁₈ ↓ LOCATION OF WELL LOCATION OF WELL	5
Water level 25 Water level 25 Water levels during 1 © Pumping 2 © Recovery 1 0 Pumping 2 Provide a statistic of the statistic	ot line:
end of purpting and the interview of the	
L 519 Meet 20 feet 716 Meet 61 met 518 Mileet 518 feet	
If flowing give rate 38-41 Pump intake set at Water at end of test 42 GPM feet □ Clear □	
Recommended pump type Recommended 43-45 Recommended 46-49 pump rate	
Deep 35 feet 5 GPM 9 Greely Strick	L Y
Image: Shallow grade Deep pump setting grade pump rate 35 feet 5 GPM FINAL STATUS OF WELL 54 54 1 Water supply 5 Abandoned, insufficient supply 9 Unfinished 2 Observation well 6 Abandoned, poor quality 10 Replacement well 3 Test hole 7 Abandoned (Other) 7 Abandoned 40 4 Recharge well 8 Dewatering 7 Abandoned 40	Parkway Dr
1 Water supply 5 Abandoned, institutient supply 6 2 Observation well 6 Abandoned, or quality 10 3 Test hole 7 Abandoned (Other) 4 Becharge well 8 Dewatering	70
	3
WATER USE 55-56 1 Domestic 5 Commercial 9 Not used 2 Stock 6 Municipal 10 Other Other	10
2 - Stock Invitation 7 Public supply 4 Industrial 8 Cooling & air conditioning	(#
METHOD OF CONSTRUCTION 57	-
Air percussion 9 Driving	3261
Name of Well Contractor's Licence No. Well Contractor's Licence No. Source State of inspection Inspector	2 1097
Capital Water:Supply Ltd. 1558	
P.O. Box 490 Stittsville, Ontario K2S 1A6 Name of Well Technician SLicence No.	
S. Miller/ Signature of Technician/Contractor Management day24 mo 10 yr 97	14

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🗑 Ont	Ario Ministry of the Environment		The	e Ontario Water Resources WATER WELL RECO	
Print only in space Mark correct box	ces provided. with a checkmark, where applica	ble . 11	1531816	$\underbrace{\prod_{15}^{\text{Municipality}}}_{10} \underbrace{\prod_{15}^{\text{Con.}}}_{15} \underbrace{\prod_{15}^{\text$	DA
County or District	waCarle to	Township/Borough/City/	•	Con block tract survey, etc. Lot	25-27
		Address Address		Date completed 07 02 (48-53 01
21		Northing	RC Elevation RC	day month	year iv
	LOG O	PF OVERBURDEN AND BEDR	COCK MATERIALS (see instruction	<u>ions)</u>	
General colour	Most common material	Other materials		I description Depth - feet	it To
	Sand	boulders		0 3	5
grey	linestore	-		· · · · · · · · · · · · · · · · · · ·	12
grey	Sandstone			142 24	10
			1		
31	l	<u> </u>]
Water found	Kind of water 51	CÁSING & OPEN HOLE F Wall Materiat thickness	BECORD Sizes of (Slot No Depth - feet U From To	opening 31-33 Diameter 34-38 Length .) inches	39-40 feet
at - feet $ \bigcirc q^{10-13} \downarrow \mu_{2} $	Fresh ³ Sulphur ¹⁴ Salt Gas	1 E Steel 12		and type Depth at top of scree	en 30
15-18 1	Fresh 3 Gulphur 19 6 4	2 ☐ Galvanized 3 ☐ Concrete 4 ☐ Open hole 5 ☐ Plastic	0 44 1	teel	nt
20-23 1		1 🗆 Steel 19		PLUGGING & SEALING RECORD PAnnular space Abandonment t- feet	
05.00	$\begin{bmatrix} \text{Sairy} & 6 & \square & \text{Gas} \\ \hline & & & \end{bmatrix} \begin{bmatrix} \mathbf{A} & \mathbf{A} \\ \hline & & & \end{bmatrix} \begin{bmatrix} \mathbf{A} & \mathbf{A} \\ \mathbf{A} \end{bmatrix}$	3 Concrete 4 27 Open hole 5 Plastic	0 9 2 From 7 ¹³ 0	To Material and type (Cement grout, bentonite,	, etc.)
20-33	1 1 Minerals 1 Salty 6 Gas 2 Fresh 3 Sulphur 34 60 60 60 60	1 Steel 26 2 Galvanized 3 Concrete	47 7/12 18-21	2225 Bartoute	
	Salty 6 Gas	4 🚰 Open hole 5 🗋 Plastic	1 C C 4 O 26-29	30-33 80	
71 Pumping test m	Bailer Pumping rate 5 GP	17.40			
	na or pumping j	1 D Pumping 2 Recovery	In diagram below show Indicate north by arrow	w distances of well from road and lot line.	
	220 160 101	-31 45 minutes 32-34 60 minutes 35-37 Sfeet		old #	\mathbb{N}
If flowing give ra	ate ³⁸⁻⁴¹ Pump intake set at	Water at end of test 42 eet Clear PCloudy	Thundert	211d Prescott	"
Recommended p	ump type Recommended 43 pump setting 7 2	⁴⁵ Recommended <u>46.49</u> pump rate <u>5</u> GPM	IP IU IU	kd.	
50-53				lam	
FINAL STATUS ¹ Water sup ² Observation	ply ⁵ 🗌 Abandoned, insufficien		1 1		
 ³ Test hole 4 Recharge 	7 Abandoned (Other)			o7km	
WATER USE	55-56 5 🔲 Commercial	9 🗋 Not use			
2° Stock 3 Irrigation 4 Industrial	 6 D Municipal 7 Public supply 8 Cooling & air conditioni 	10 🗌 Other		ł	
METHOD OF C	CONSTRUCTION 57	*			
 ¹ Cable tool ² Rotary (co ³ Rotary (rev 	nventional) 6 🗖 Boring	 ⁹ Driving ¹⁰ Digging ¹¹ Other 		00040	
4 🗌 Rotary (air	r) ⁸ □ Jetting			22948	
Name of Well Contra	ch. Dr. U.P. J	Well Contractor's Licence No.	Data 58 Contractor source	19 Date received APR 18 2001	3-68 80
LU#2	Jasner On	J	Date of inspection	Inspector	
Name of Well Techn	non Rurell	Well Technician's Licence No.		CSS.ES1	
Signative of Technic	cian Sontractor	Submission date 28 02 01 day mo yr	A Hemarks	033.231	
	TRY OF THE ENVIRONM			0506 (07/00) Front	Form 9

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	ces provided. k with a checkmark, where applic	able.	15318	B17 Municipa	
County or District OHA Owner's surname Sup S	wa Carlete	Township/Borough/City Address Easting Northing	1. Ont	vation RC Basin Code	k tract survey, etc. Lot Completed day OZ O ii iii ii ii
1 2		12 17 18 OF OVERBURDEN AND BEDF	24 25 26 ROCK MATERIALS (see instructions)	
General colour	Most common material	Other materials		General description	Depth - feet From To
	Sand	boulder:	5		044
grey	linestone				44 80
				• • • • • • • • • • • • • • • • • • •	
		ji j			
31					
				<u>54</u>	65 75
41 WATE Water found at - feet	ER RECORD 51 Kind of water diam	CASING & OPEN HOLE I Wall Material thickness	Depth - feet	(Slot No.)	1-33 Diameter 34-38 Length 3 inches
	Fresh ³ Sulphur ¹⁴ inche Minerals	s inches	From To 13-16	Material and type	Depth at top of screen 41-44
15-18 1	Fresh 3 Ulphur 19	2 Gatenized 3 Contrate 4 Open tiple	0 53		feet
	17-		20-23	Annular space	& SEALING RECORD
2	Salty 6 Gas	y 3 □ Concrete 4 2 Open hole 5 □ Plastic	0 51	From 10	rial and type (Cement grout, bentonite, e
2	Fresh 4 I Minerals 24-2 Salty 6 Gas /	¹⁵ 1 🗆 Steel ²⁶ 2 🗋 Galvanized		2 ¹³ 53 (2 18-21 22-25	mint growt
	Fresh ³ Sulphur ³⁴ A Minerals Satty ⁶ Gas	3 Concrete 4 Open hole 5 Plastic	51 80	26-29 30-33 80	
71 Pumping test m		1-14 Duration of pumping 17-18 PM Hours Mins		LOCATION OF	 WELL
Static level W	Vater level 25 Nd of pumping Water levels during	1 Pumping 2 Becovery	In diagram Indicate r	n below show distances on the by arrow.	of well from road and lot line.
	70 ²²⁻²⁴ 15 minutes 12 12 12 13 15 minutes 26-28 13 15 15 15 15 15 15 15 15 15 15 15 15 15	2 1 2 1 2 1 2 1 2 1 2 1			1
SNI feet		feet feet feet feet 42			
Recommended po	ump type Recommended fump setting	feet Clear Cloudy 3-45 Recommended 46-49 pump rate	1 _1	under birg	Į
50-53		feet GPM		1	
FINAL STATUS	ply ⁵ Abandoned, insufficie			V	. 01d
 ² Observatio ³ Test hole ⁴ Recharge 	7 Abandoned (Other)	ity 10 🖸 Replacement well		(Presol
WATER USE	55-56			6 ()(n Old m Presol Rd.
1 Domestic 2 Stock 3 Irrigation 4 Industrial	5 Commercial 6 Municipal 7 Public supply 8 Cooling & air coordition	9 🗌 Not use 10 🗋 Other			
	8 Cooling & air condition				
1 Cable tool 2 Rotary (co	 ⁵ ZOAir percussion ⁶ Doring 	⁹ Driving ¹⁰ Digging			
³		11 🖸 Other	Sunset	Lakes Tes	,+ * 2. 22948 2
Name of Well Contra	actor Deli Dri Wirg (D)	Well Contractor's Licence No.	Data source Date of inspection	58 Contractor	59-62 Date received 63-66 APR 18 2001
RPH			Date of inspection	Inspector	1744 1 0 2001
1 1 1 1		Well Technician's Licence No.			
Name of Well Techn	DO DIMAN	12172			CSS.ES1

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🕅 Onta	rio Ministry of the Environment	· · · · · · · · · · · ·	•		The		Water I R WEL		
Print only in spaces Mark correct box wi	s provided. ith a checkmark, where applica	ble. 11	1	5320)70			. 1 . 1 . 1 . 1	22 23 24
County or District	us Carleton	Township/Borough/Ci	ty/Town/Vill	age	. <u> </u>	Con bloc	k tract survey	y, etc. L	ot 25-27
1) *** 4 4	Current	Address	/			DUF	Date completed	06	12 20
(<u> </u>		GREELY	LA		REELY evation RC	Basin Code		day	nonth year] iv
21			24	25 26		31			47
	LOG O	F OVERBURDEN AND BE	DROCK M	ATERIALS	see instruction			Dep	th - feet
General colour	Most common material	Other materials			···	description		From	To
Brown	Sand	with som	e S	tones		.,	<u></u>	0	5'
Grey	Clay	with som	e st	01-5				5'	39'
Grey	Gravel	Course						39'	60'
,									
	······································			_					
<u>├</u>								1	
		· · · · · · · · · · · · · · · · · · ·				<u> </u>		1	
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		I				<u> </u>		<u> </u>	<u> </u>
31									╶╌┼╾┙└╴
							31-33 Diameter	34-38 Ler	1 1 80 75 80
41 WATER Water found	Kind of water diam		De	pth - feet	Sizes of Z (Slot No.	25 510	f 5	inches	4 _{feet}
at - feet	Fresh 3 Sulphur 14		From	To 13- 16	Material	and type		Depth at to	
55 200	Salty 6 Gas	2 Galvanized	0	20	5 5 fu	in 1.453	stell	55	
	Fresh 3 Sulphur 19 4 Minerals Salty 6 Gas	4 - Open hole 5 🗋 Plastic			61 1	PLUGGIN	& SEALIN	G RECOR	D
20-23 1	Eroch 3 Sulphur 24	2 🖸 Galvanized	+2	57	Depth set a	Annular spac		Abandon	
2 🗌 5	Saity 6 Gas	3 Concrete 4 Open hole 5 Plastic			From 2013	To Ma	terial and type (C	ement grout,	
25-20 1 0 1	FIESH 4 [] Minerale			27-30	18-21	22-25	0195	high	lar
30-33 1 🔲 2 🗌 3		3 Concrete 4 2 Open hole	57	60	26-29	30-33 80			
	Saity 6 Gas	5 🗌 Plastic		<u>×</u>					
71 Pumping test met		PM Duration of pumping 17-18 Hours Mins				CATI ON OF		54	
	ter level 25 d of pumping Water levels during	1 Kecover			am below show north by arrow		of well from	roadan	37
SH 19-21	22-24 15 minutes 30 minute	s 9-31 45 minutes 32-34 60 minutes 35-	37	ł	N_	ł	•	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
SU 17 feet 1 If flowing give rate		feet 17 feet 16 fe			κ		sh.r	1	
If flowing give rate		feet K Clear □ Cloudy					24.4		
Recommended pur	pump setting 2	pump rate / ()	49			le le			3
50-53		feet (GP							2
FINAL STATUS	OF WELL 54		ן ר			i i i			
 ¹ Water supply ² Observation ³ Test hole 	y ⁵ Abandoned, insufficie well ⁶ Abandoned, poor qua ⁷ Abandoned (Other)			2		a			
4 🗌 Recharge we				3	Gree	y 14	44		
WATER USE	55-56 5 Commercial	9 🗌 Not use		\sim		,			
2 Domestic 2 Stock 3 Irrigation	6 🔲 Municipal 7 🔲 Public supply	10 🗌 Other		2	÷.				
4 🗋 Industrial	8 🔲 Cooling & air conditio	ning		a					
1	ONSTRUCTION 57								
 ¹ Cable tool ² Rotary (conv Rotary (reversion) ³ Rotary (reversion) 		 Driving Digging Other 						00-	1400
4 2 Rotary (air)	⁸ 🗋 Jetting							221	'486
Name of Well Contract	tor	Well Contractor's Licence		Data	58 Contractor		59-62 Date rec		63-68 80
OLY MP.	tor C DIZIIIINIG Co. L RIVENS RD. MIET	Jd. 4006		source *	4	<u>) </u>	JU	. 17	2001
Address 2320 Sc	RIVENS RD. MIRT	ICALGE ONT.	ISE (Date of inspectio	n	Inspector			
Name of Well Technic	sian P 1	Well Technician's Licence	No: 7	Remarks	<u> </u>	I		4/-	
	cian CRENWICZ anvContractor fermine	Submission date						CSS.	ES1
Wayn	femit	day mo yr	Ĩ						00) Front Form

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🗑 Ontario	
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Ministry of the Environment

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The Ontario Water Resources Act WATER WELL RECORD

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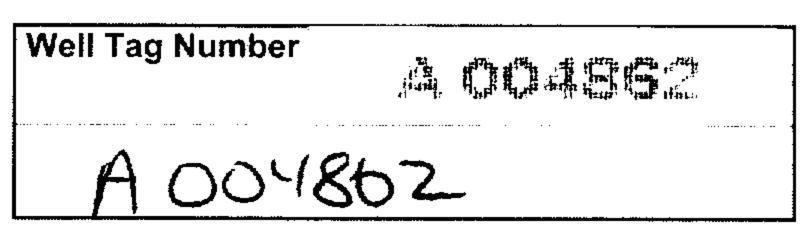
County or District				Borough/City/) sgoode	Fown/Village	•		Con block tract s	survey, etc. Lot	25-27 5 48-53
			Address 1545 F	liver Ro	ad Ma	ontick	,Ontario	EXAM 184 Compl	^{eted} 27day 11 m	
21	U T			Northing			ation RC	Basin Code		
1 2	10	OG OF OV	ERBURDEN	AND BEDR		ERIALS (s	³⁰ ee instructio	31 D NS)	Death	
General colour	Most common material		Othe	er materials			General	description	From	i - feet To
Brown	Sandy Soil								0	4
Gray	Sand & Gra	vel					Wet		4	12
Gray	Sandy Clay								12	30
Gray	Sand, Grav	el	Bou	lders	· · · · · · · · · · · · · · · · · · ·		Wet	<u></u> ,	30	58
Gray	Limestone						·		58	160
Gray & W	hite SAndstone				····=re- ·				160	223
								·		
	<u> </u>	<u></u>				<u> </u>	.		 	
32	╶┖╴╸╸╸╸									
41 WAT	ER RECORD	51 C	ASING & OF	VEN HOLE I	43 RECORD Depth	- feet	Sizes of c Sizes of c (Slot No.)		meter ³⁴⁻³⁸ Leng	
Water found at - feet	Kind of water	diam inches	Material	thickness inches	From	То	Material a	and type	inches Depth at top	feet of screen 30
216	☐ Satty 6 ☐ Gas	6 11/4 1 0 2 [3 [Steel ¹² Galvanized Concrete	.188	+ 1.5	65 ¹⁶	SC			41-44 feet
	Fresh 4 ☐ Minerals ☐ Salty 6 ☐ Gas	4 [5 [Open hole Plastic			20-23	61	PLUGGING & SEA		
	☐ Fresh ³ ☐ Sulphur ²⁴ ☐ Salty 5 ☐ Gas	2 [Galvanized Concrete				Depth set at	Material and ty	/pe (Cement grout, be	
25-28 1 [□ Fresh ³ □ Sulphur ²⁹	5 [X Open hole Plastic		65	223	10-13	14-17	- Oeroenit (1)	
	□ Sality 6 □ Gas	2 [3]	Steel Galvanized Concrete			27/30	18-21	22-25	Bentonite (3)
	☐ Fresh 4 ☐ Minerals ☐ Salty 6 ☐ Gas		Open hole Plastic				26-29	30-33 80		
71 Pumping test r		11-14 C GPM	Duration of pumpi	ng 17-18 Mins			LOC	CATION OF WELL	<u></u>	
Statia laval	Bailer Water level end of pumping			Recovery		In diagrar Indicate n	n below show orth by arrow	v distances of well f v.	rom road and lot	line.
		minutes 4	5 minutes 32-34	60 minutes 35-37						1
SN 34°67eet	38.41		150 feet Vater at end of tes	75 feet						
Recommended	GPM	feet	Clear Recommended	Cloudy 46-49		C-ree	や	¥ 1020	~	
	Deep		pump rate	5 GPM		Greed Sr	5.	₩6939	131	13
50-53						R	, 2 + 1		6' 1	
¹ Water su ² Observat			ly ⁹ □ Unfinish ¹⁰ □ Replace				1		ł	Prescot Huy
³ Test hole 4 Recharge)ther)					(ł	ŝ
	55-56 5 🗌 Commercial		9 🗌 Not use				. 1	·	1	°,
 Domestic Domestic Stock Imigation 	7 🗋 Public supply		10 🗌 Other				\setminus	•	11	0
4 🗌 Industrial		conaitioning								0
1 🗀 Cable too		1	⁹ Driving				1130	^c Keon		
² □ Rotary (c ³ □ Rotary (r ⁴ ♀ Rotary (s	everse) 7 🖸 Diamond		¹⁰ □ Digging ¹¹ □ Other						250	522
			Woll Contract	r'e Linance Ma	Data		58 Contractor	59-62 Da	ate received	63-68 80
Name of Well Cont Capital W	tractor Jacter Supply Ltd		Well Contracto	or's Licence No.		ce	<u>15</u>	58 0		N2 🕺
Address		rille (Ontario	K25 116		of inspection		Inspector		
Name of Well Tech	nnician	*****1	Well Technicia	in's Licence No.	Bank NINISTRY USE	arks	L			00
S. Mille Signature of Jechr	er nician/Contractor		TOO97 Submission da	ate	SINI			C	203.E	کند ک
1 Auro	mal		day 29mo	<u>11 yr 02</u>	≥		<u></u>		0506 (07/0) Front Form

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🕲 Ont	ario Ministry of the Environment	-		·			11	ne Ontari WAT		/ELL F		
Print only in space Mark correct box	ces provided. < with a checkmark, where applic	able.	1	1	153	3346	\sim	Munici		CON	<u> </u>	
County or District			Township/B	orough/City/T	own/Village)	Pl		ck tract	survey, etc.		25-27
Atte	No Canletor		Address	500	te				Date	12		†
			61	eeley Northing	,0	RC Elev	ation R	C Basin Cod	compl	leted 13 day	111	2 Ö Z
21			24									
	LOG	ND BEDR	DCK MAT	ERIALS (s					Depth - feet			
General colour	Most common material		Other	materials		0.(ral description		Fro		
	Sand		j av.	el7	100	uld	Q/ S				\mathcal{O}	62
giey	Linestone		- - 0		1						2 8	227
grei	Sanayund	10 m			,		· · · · · · · · · · · · · · · ·		<u> </u>	20	_	227
un un	- grey sance		¥		<u> </u>							
		+		<u> </u>								
				: :								
31											<u> </u>	
	ER RECORD 51							of opening	31-33 Dia	65 meter 34-38	Lengt	h 39-40
Water found at - feet	Kind of water diam	• •	Material	Wall thickness inches	Depth -	feet To	N (Slot I			inches		feet
· 10-13 1 [220 2 [Fresh ³ Sulphur ¹⁴ 4-17 Minerals 6 Gas		alvanized	Inches		13-16	Hater Mater	ial and type		Depth	at top o	f screen 30 41-44
15-18 1	Fresh 3 Sulphur 19		Concrete Open hole Plastic	88	0	70	61	PLUGGIN		LING REC		feet
20-23 1	174		Salvanized	•	Ì	20-23		Annular space	же		ndonme	
05.00	☐ Saity 6 ☐ Gas				0	68	From		aterial and ty	/pe (Cement gr	out, bei	ntonite, etc.)
2 [□ Salty 6 □ Gas 243	2 0 0	Steel ²⁶ Balvanized Concrete			27-30 ク つ つ	18-21	22-25	nn	10/11	<u>v</u>	
1 1'L	☐ Fresh 4 ☐ Minerals ☐ Salty 6 ☐ Gas	4 🖬 🕻 5 🗆 F	Open hole		68	222	26-29	30-33 80				
71 Pumping test m		1-14 Dura PM	ation of pumping	17-18 Mins			L(F WELL			
Static level	Bailer Vater level and of pumping Xater levels during	1 🗆 Purr		Recovery		In diagran Indicate n	n below sh orth by arr	iow distances	of well fi	rom road ar	nd lot	line.
500 feet	22-24 15 minutes 26-28 50 50 50 50	s 45 m										11
feet If flowing give r	rate 38-41 Pump intake set at	feet Wate	feet	feet 42			、·	5	,			え
Recommended p	GPM	feet	Clear 🔺	Cloudy 46-49			à					
□ Shailow	Pump setting /60	feet put	^{mp rate} 9	GPM			Ň	[] []	7			
50-53	IS OF WELL 54						1-kl	à l	/			
1 Water sup 2 Observation 3 To at hole	ion well 6 🗌 Abandoned, poor qua	nt supply Ility	 ⁹ □ Unfinished ¹⁰ □ Replacem 	l ent well			il	Sc F)'Ar	'CY		
 ³ Test hole 4 Recharge 			·				5/2	"uqsuun		-		
WATER USE			9 🗌 Not use				ιĤ					
2 Stock 3 Irrigation 4 Industrial			10 🔲 Other					1				
METHOD OF												
 Cable tool Rotary (coll 	onventional) ⁵ 4 Air percussion ⁶ D Boring		⁹ Driving ¹⁰ Digging									
 ³ Rotary (re ⁴ Rotary (ai) 	ir) ⁷ Diamond ⁸ Jetting		11 🗌 Other							24	88	30
Name of Well Contr	ractor		Veli Contractor's	Licence No.	> Data		58 Contracto			te received		63-68 80
Address Q	xh-Diuglo	Ud	1119			e of inspection	1	119 Inspector		DEC 23	3 20	
L KK	#1 Kichm	ona	1, Dr	1	USE							
Name of Well Tech	non fuller	1 '	TR 1	12	ALSINIW	11KS			~			
Signature of Techni	rician/Contractor	Į.	Submission date	52	WIN				U	SS.[
	TRY OF THE ENVIRON			,	<u> </u>					0506	(07/00)	Front Form 9



Instructions for Completing Form



 Well Record

 Regulation 903 Ontario Water Resources Act

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Differentiated, specify

- For use in the Province of Ontario only. This document is a permanent legal document. Please retain for future reference.
- All Sections must be completed in full to avoid delays in processing. Further instructions and explanations are available on the back of this form.
- Questions regarding completing this application can be directed to the Water Well Management Coordinator at 416-235-6203.
- All metre measurements shall be reported to 1/10th of a metre.
- Please print clearly in blue or black ink only.

Well Owner's Information and Location of Well Information



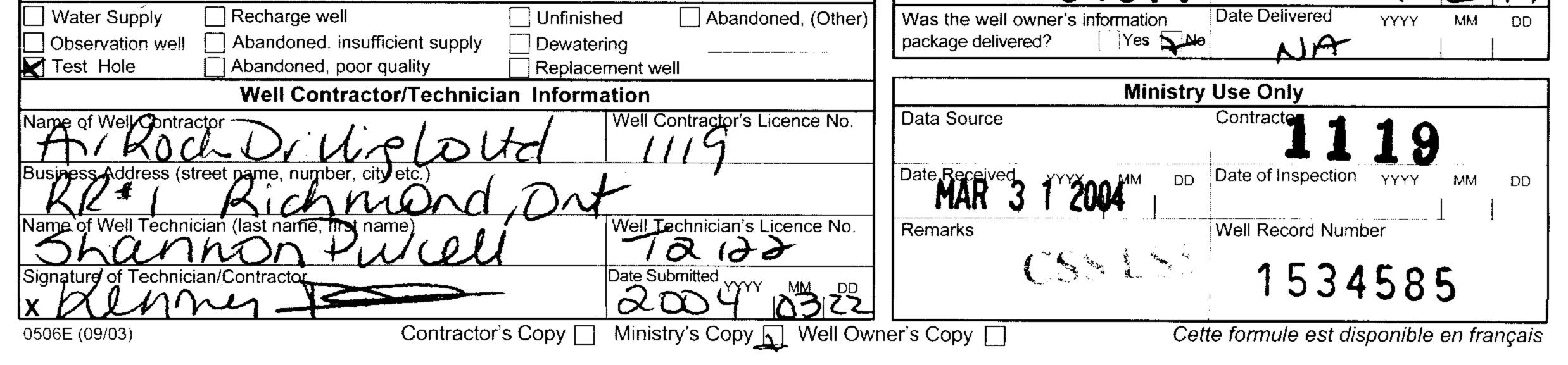
Address of Well Location (County/District/Municipality)	Township	Lot 6 Concession
RR#/Street Number/Name	City/Town/Village	Site/Compartment/Block/Tract etc.
GPS Reading NAD Zone Easting Northing	Unit Make/Model Mode of	Operation: Undifferentiated Averaged

OF 5 Reading	8 3	18	U55211	5011633	Magella	
Log of Overbu	urden ar	nd Bedro	ock Materials (se	e instructions)	1	

General Colour	Most common material	Other Materials	General Description	Depth Metres From To
• · · · · · · · · · · · · · · · ·	Clay			0 10.06

10.06 15. 16.01

		· · ···			• • • • • • • • • • • • • • • • • • • •		··· · · · · · · · · · · · · · · · · ·
Hole Diameter	Ca	onstruction Reco	ord		Tes	st of Well Yield	See Attacke
Depth Metres Diameter	Inside	Wall	Depth	Metres	Pumping test method		Recovery
From To Centimetre		thickness	•		C. D.Dump		Time Water Level
0 41.76 15.24	centimetres	centimetres	From	То	Pump intake set at -	min Metres	min Metres
		Casing			(metres)	Static 2.66	9.85
	Steel Fibregla	ass			Pumping rate -SU	15.66	1 8.18
	- 15.88 Plastic Concret	te ,478	\wedge	18 9	(litres/min)+ 30		
Water Record	Galvanized	. 7/0	U	18.9	Duration of pumping	2 8.20	2 7.40
Water found at Metres Kind of Water	Steel Fibregla	ASS			hrs + mir		
[Final water level end	3	3
Gas Salty A Mineral	s Galvanized	:			of pumping 8 metres		
Other: Not unoq	· Steel Fibregla	ass			Recommended pump type.	4 12.78	4 6.32
m Fresh Sulphur					Shallow Deep Recommended pump	1 1 1 3 1	
Gas Salty Mineral Other:	Galvanized				deptil de	6 16.34	85.52
	•	Screen			Recommended pump	8 18,21 10 19,98	8 4.96
m Fresh Sulphur Gas Salty Mineral	s Outsido	······			rate, 36	1622.82	10 4.60
Other:	diam Steel Fibregla	:			(litres/min) If flowing give rate -	20 24.14	20 3.67
After test of well yield, water was	Plastic Concret	te			(litres/min)	25 19.42	25 3,87
Clear and sediment free	Galvanized			i	If pumping discontin-	30 15.98	30 3,47
Other, specify to to q	Ν	o Casing or Scre	en	······································	ued, give reason.	40 11.66	40 3, 19
		j				50 10.32	50 3.10
Chlorinated Yes No-	Copen hole		18.3	41.76		60 994	60 3.04
Plugging and S	ealing Record	ular space 🗍 Ab	andonment		Location	•	
Dopth opt of Matron	ype (bentonite slurry, neat cement slu		e Placed	In diagram belov	v show distances of well fr		and building
From To			motres)	Indicate north by	Larrow.	. 6	A land building.
18.3 0 Cem	ent growt su	V14 250	gall	λs (estweer		
	1	<i>(</i>	/		est welt Partina	.201	N
				-	Tanyou	100	
			<u></u>			<u> </u>	1
					akm	12 km	
					\mathbf{V}		
	Method of Construction						Ind 1
Cable Tool ⁵ Rotary			Digging		ì		KIU I
Rotary (conventional) Air pe Rotary (reverse) Boring			Other			·	Plesat
	Water Use						RA.
Domestic Indust			Other				
Stock		····					
Irrigation Munic	Westand	& air conditioning		Audit No. 🔫	NAN77 Dat	e Well Completed	
	Final Status of Well				U47//	2 00 X	



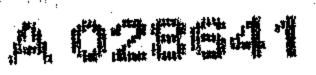
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Instructions for Completin	a Form	ADZ	27950		page of
	-	document is a perma	inent legal document. F	 Please retain for future refe	rence.
 All Sections must be com 	pleted in full to avoid	delays in processing	. Further instructions ar	nd explanations are available	on the back of this form.
 All metre measurements 			the water well manage	ment Coordinator at 416-2	
Please print clearly in blue			MUN	Ministry Use Only	
Well Owner's Information	and Location of We	ell Information	MON		LOT
			039000L		
RR#/Street Nymber/Name	of o isance	· · C	ity/Town/Aillage	Site/Compartment	/Block/Tract etc.
6976 50u		m	CREELY		
GPS Reading NAD Zon		Northing U	nit Make/Model Mod	e of Operation: 🛛 Undifferentia	
Log of Overburden and Be		e instructions)	Jana		
General Colour Most common	material O	ther Materials	Gener	al Description	Depth Metres From To
brown topsoil	7. K		· · ·	Soft	0 1.02
gren Sand	D layer	of day		50 Fr	1,02 10.36
grey Send - A	rane 1	· /		ranted	10.36 14,93
green zoon	u			racted	10,93 16,45
Ogrey litchest	me	·		layered	16,45 30,48
0 0		<u>.</u>			
		<u></u>			· · · · · · · · · · · · · · · · · · ·
Hole Diameter		Construction Reco	ď	Test of W	ell Yield
Depth Metres Diameter From To Centimetres	Inside diam Materia	Wall I thickness	Depth Metres	13	w Down Recovery Vater Level Time Water Level
0 17 37 21 23	diam Materia centimetres	centimetres	From To	min	Metres min Metres
		Casing		(metres) 29 Level	4.61 5.49
17.37 30.48 15.55	Steel Fi		1.61	Pumping rate - 1 (litres/min) 2 2	1
Water Record	15.55 Plastic Co	oncrete 0-48	+0.60 17.37	Duration of pumping 2	2
Water found at Metres / Kind of Water		breglass		Final water level end	5,21 3
30 m Fresh Sulphur Gas Salty Minerals		oncrete		of pumping metres	5,213
	Galvanized	brealass		Recommended pump 4	4
m Fresh Sulphur Gas Salty Minerals				Recommended pump 5	5.21 5 469
Other:	Galvanized			depth. 2 4 metres Recommended pump 10	
m Fresh Sulphur Gas Salty Minerals		Screen	······································		5.36 10 /.61 5.36 15
Other:	diam Steel Fi	-		If flowing give rate - 20	5.43 20
After test of well yield, water was	Galvanized			If pumping discontin- 30	5 , 4 , 6 30
Cther, specify	·	No Casing or Scree	en	ued, give reason. 40	5 48 40
Chlorinated Yes No	Open hole		17,37 30.48	50 1	5 478 50 1 5 44a 60
Plugging and Se	aling Record	Annular space Aba	Indonment	Location of Well	
Depth set at - Metres Material and typ	e (bentonite slurry, neat cem	ent siurn/) etc Volume	Placed In diagram belo	ow show distances of well from road	
From To	I growt	106	Indicate north t	by arrow.	
U Ion Can			0		
	× · · · · · · · · · · · · · · · · · · ·				
	<u></u>		S2	South Village Fr6976	ile -
	lethod of Construction	n	[/)	whee	
Cable Tool 😥 Rotary (air) 🗌 Dia	mond	Digging	th 1976	
Rotary (conventional) Air perc Rotary (reverse) Boring	ussion Jet Driv	u	Other	Son Dori	
	Water Use			Bo	,
Domestic Industria		blic Supply	Other	July	
		oling & air conditioning	Audit No. Z	28003 Date Well	Completed
Vater Supply Recharge we	Final Status of Well	finished Abandor	ned, (Other) Was the well of	owner's information Date Delive	
	insufficient supply	watering placement well	package delive	red? Yes No	
Well Con	tractor/Technician Inf	ormation		Ministry Use Only Contractor	
Name of Well Contractor		Well Contractor's Li	cence No. Data Source		1414
Business Address (street name, numb	er, city etc.)		Date Received	2005 MM DD Date of Ins	pection YYYY MM DD
Name of Well Technician (last hame, f	ist name)	Well Technician's Li	cence No. Remarks	CUBJ Well Reco	rd Number
Signature of Technipian/Contrator	ouder	33/0 Date Submitted	<u> </u>		· ·
xX HAB	un corb	0.5		And the second s	and dian fr
0506E (09/03)	Contractor's Cop	y [_] Ministry's Copy [] Well Owner's Copy 🗌	Cette formule	est disponible en français

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	ivitiniou y Of	Well 1 A 022	972	umber below)		Well Record
	the Environment	~	<u> </u>		Regulation 903 Ontar	io Water Resources Act
Instructions for Completin	ng Form	Hoaa	297	a		page of
					ease retain for future refe	
					explanations are available on nent Coordinator at 416-23	
All metre measurement	ts shall be reported				Ministry Use Only	
Please print clearly in blu	ue or black ink only.		MUN			
Address of Well Location (County	y/District/Municipality)	Iow		and a	Lot	Concession
RR#/Street Number/Name	conten		ity/Town/Villa	ge a	Site/Compartmen*	/Plock/Tract etc.
#6158 St	onth VILL	AGE DK		zley Mada	PLANAM	-1265 -110
83	8 454413	50123381	Marennio		of Operation: Undifferentiated	
Log of Overburden and B	·····					Depth Metres
General Colour Most common	n material	Other Materials		Genera	Description	From To
Sanc	1 fu	·····				01.2
clay	1	nci				1.26.1
Jano	d q(d	avel.				6.1 14.4
grey lime	otone					14.9 24.4
		<u> </u>				
		4.¥	`~~		·	
					<u>, , , , , , , , , , , , , , , , , , , </u>	
					· · · · ·	
Hole Diameter		Construction Reco	rd		Test-of-W	əll Xield
Depth Metres Diameter	Inside diam Mate	Wall	Depth	Metres		w Down Recovery Vater Level Time Water Level
From To Centimetres	centimetres	riai thickness - centimetres	From	То	DUBRUM min	Metres min Metres
0 24,4 14,91		Casing			Pump intake search Static (metres)	434 7,53
	Steel	Fibreglass			Pumping rate 1	6,03 1 5,03
Water Record	Plastic Galvanize		0	17.7	Duration of pumping 2	-85 2 4 72
Water found at Metres Kind of Water	IS 88 Galvanize		<u> </u>		hrs + min	
	Plastic	Concrete			of pumping metres	7,07 3 4.69
Gas Salty Minerals					Recommended pump 4	7.19 4 4.66
Fresh Sulphur		Fibreglass	-		Recommended sump 5	1.24 5 4.62
Gas Salty Minerals	Galvanize				depthmetres	
m Fresh Sulphur		Screen			Recommended pump 10 rate. (litres/min) 15	1,38 10 4,50 142 15 4,50
Gas Salty Minerals	diam	Fibreglass Slot No.			If flowing give rate - 20	1 44 20 4.48
After test of well yield, water was	Galvanize	* · ·	1997 - A.		(litres/min) 25 If pumping discontin- 30	7,47 25 4,46
		No Casing or Scre	en		ued, give reason. 40	1 50 40 4 40
Chlorinated Yes No	Open hole			24.4	50	52 50 4.41
					60	7.53 60 4 40
Plugging and S Depth set at - Metres Material and ty		ment slum/) etc Volume	andonment e Placed	In diagram below	Location of Wel	d lot line and buildings
			metres)	Indicate north by	v show distances of well from road y arrow.	6958 SOUTH VILLAGE DRIVE
14.0 0 be	t cemen	tstury 11	190	· · ·	FOR T	6958
14.0 0 ben	MONTES	ung .		LAKE		South
				T		VILLAGE
				. \		DRIVE
the second se	Method of Construct			1		
Cable Tool Rotary		_	Digging Other		akin	
Rotary (reverse)	ı 🗌	Driving —		South BEACH	stan'	
Domestic Indust	Water Use	Public Supply	Other	BEND	Y N	e service and
	nercial 🗌 I	Not used				Completed
	Final Status of Wel	Cooling & air conditioning		Audit No. Z	23315 ^{Date Well}	
Water Supply Recharge			ned, (Other)	Was the well or package deliver	wner's information Date Deliv	
Test Hole Abandoned	d, poor quality 🛛 🗍 I	Dewatering		Publicage deliver		
Well Contractor/Technician Information					Ministry Use Only Contracto	
Name of Well Centractor	KOOL UNIVIE LOUTA 1119					119
Busines Address (street name nun	nber, city etc.))	d. Ont		Date Received	TYY4 2005 DD Date of The	pection YYYY MM DD
Name of Well Technician (last name	, first name)	Well Technician's L		Remarks .		rd Number
Signature of Technician/Contractor	hanno	Date Submitted	MM . Due			- <u>(</u>
xalant	<u>></u>				Catta formula	est disponible en français
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Well Tag Number (F



Well Record

Regulation 903 Ontario Water Resources Act

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Instructions for Completing Form

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- All metre measurements shall be reported to 1/10th of a metre.
- Please print clearly in blue or black ink only. Ministry Use Only Well Owner's Information and MUN CON LOT prmation First Name Mailing Address (Street Number/Name, RR,LonConcession) Sevelop mint and NE Stille_ County/District/Municipality wnship/City/Town/Village Province Telephone Number (include area code) Postal Code Ontario Address of Well Location (County/District/Municipality) Township Concession Lot win for the second ttawa Conletor)SGOOdele RR#/Street Number/Name City/Town/Village Site/Compartment/Block/Tract etc. -12 OUTH Greet 0/6 **GPS Reading** NAD Unit Make/Model Easting Mode of Operation: Zone Northing Undifferentiated Averaged 8 454843 5012416 8|3 an Differentiated, specify Log of Overburden and Bedrock Materials (see instructions) General Colour Most common material **Other Materials** Depth **General Description** Metres

grey limestone

111					
	From	To			
	0	12.8			
	12 8	29.6			

grey lin	restone	Sands	stone		nixe		29.	6.	54.0
	۰.	· · · · · · · · · · · · · · · · · · ·							
Hole Diameter						7			
	ameter	Lons	struction Reco	ora	······	· · · · · · · · · · · · · · · · · · ·	t of Well Yield		
	timetres diam	Material	Wall thickness	Depth	Metres	Pumping test method	Draw Down	Re	Covery Water Leve
0 54 G is	.07- centimetres	•	centimetres	From	То	Support	min Metres	min	Metres
0 07.7 15			Casing				Static Level 11, 13		
		Steel Fibreglass	······································	· · · · · · · · · · · · · · · · · · ·	····	Pumping rate -	1 12.95	1	36.15
		Plastic Concrete	UV	\sim		(litres/min) 30,28			
Water Record	15.88	Galvanized	18 v	\mathbf{O}	15.2	Duration of pumping	2 13,53	2	34.77
at Metres / Kind Or W	I	Steel Fibreglass				Final water level and	3 14.82		32.11
	Sulphur					of pumping 37.51 metres		. 3	33.61
Other:						Recommended pump	4 15.68	4	32.47
	Sulphur	Steel Fibreglass				type.			
Gas Galty M Other: Other:	/linerals	Plastic Concrete				Recommended pump depth.	5 16.53	5	3053
Ka II	Sulphur		Screen			Recommended pump	10 20 15	10	27.20
Gas Salty N	/inerals Outside	Steel Fibreglass	[rate. 30.28	15 22.80		24.10
Other:	diam	Plastic Concrete	Slot No.		· · · · · ·	If flowing give rate -	20 25, 44	· · · · · · · · · · · · · · · · · · ·	21.90
After test of well yield, water		Galvanized				(litres/min)	25 27.6	25	2014
Clear and sectment ree			boing or Sore			If pumping discontin- ued, give reason.	30 29.3	-30	18.24
Other, opecify	<u>}</u>		asing or Scre				40 32.7	5 40 - 50	16.58 14,98
Chlorinated Yes		Open hole		14.6	54.9		60 37.51	60	14-11
	and Sealing Recor	d 🔄 Annula	r space 🗌 Ab	andonment		Location o	of Well	• •	· · · · · · ·
Depth set at - Metres From To	al and type (bentonite slu	rry, neat cement slurry		e Placed metres)		w show distances of well fro	om road, lot line, a	and bui	lding.
14.6 11.6 C	ement.	Stury		62	Indicate north by	y arrow.			っし
11.606	entinue	Sun	11	9n	South 1	· · · · ·			•
			7		South Beach f	then h	935		· .
					Bive	South Ville	ase Dr		
		····			160']				
	Mathed -f A				160	<u> </u>			
Cable Tool	Method of Co Rotary (air)	Diamond		Digging		150'		:	
	Air percussion	Jetting		Other					
	Boring	Driving		······································					
	Undustrial								
	Industrial Commercial	Public Supp Not used	יy []	Other					
	Municipal	Cooling & ai	ir conditioning		Audit No. 🚽	DODET Date	e Well Completed		
	Final Statu				· ∠	23357 ^{Date}	20	Б (<u>37 38</u>
	harge well ndonod_insufficient/sun		L Abando	ned, (Other)	Was the well ov		e Delivered γ	YYY 2	



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	 For use in the Prov All Sections must be 	ince of Ontario be completed in find g completing this ments shall be	only. This docur ull to avoid delay application can reported to 1/1(nent is a perr /s in processi be directed t	manent leg ing. Further o the Wate	instructions an	ment Coordinator at 416	eference. ble on the back of this form. 3-235-6203.
-					- I		Ministry Use Or	
C								
						/illage	Lot 4	Concession
i. Nationalista Nationalista	GPS Reading NAD	Zone Easting	1807t 5	thing DIZ421	Unit Make/I		e of Operation: Undifferen	intiated Averaged ated, specify
: * <u>-</u>	Log of Overburden ar General Colour Most cor	nd Bedrock Ma	terials (see ins Other M			0	al Description	Depth Metres
	Sar	rd	gravel					From To
	grey Inm grey Sar	ndstone	<u> </u>					11.6 30.5 30.5 54.9
							<u>.</u>	
			· · · · · · · · · · · · · · · · · · ·					
	Hole Diameter		Con	struction Rec				
	Depth Metres Diam	Inside		Wall	Depth	Metres		Well Yield raw Down Recovery
n.' .	From To Centin		Material	thickness centimetres	From	То	Suprime min	
			Steel Fibreglass				Pump intake set at- (metres) 5178 Leve Pumping rate - (litres/min) 5, 5	10.06
	Water Record Water found at Metres / Kind of Wa	<u> </u>	Plastic Concrete	.48	0	14.0	Duration of pumping 2	12.58 2 22.03
	35 D Fresh Sul	phur	Steel Fibreglass				Final water level end 3	13.12 32004
	Gas Satty Mir Other: NO +		Galvanized				Recommended pump 4	13,66 4 19.38
1. C.	Gas Sity Mi		Plastic Concrete				Bhallow Deep Recommended pump 5 depth 51, 8 metres	14.19 5 18.12
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	🔲 Gas 🗌 Salty 🗌 Min	phur erals Outside	Steel Fibreglass	Slot No.		·····	Recommended pump 10	16,65 10 13,46
	After test of well yield, water w	/aps diam	Plastic Concrete				If flowing give rate - 20 (litres/min) 25	19.92 20 10.39
	Clear and sediment free			asing or Scr	een		If pumping discontin- ued, give reason. 40	22.01 30 10.15
	Chlorinated Yes 🗌 No	X	Open hole		13.4	54.9	50 60	
ľ	Double out at Making 1	nd Sealing Record			oandonment ne Placed	In diagram balau	Location of W	ell
	From To Material a	and type (bentonite slu) etc. (cubic	metres)	Indicate north by		ad, lot line, and building.
	10.4 0 K	entont	te Shurr	1 11				•
			·····			South		
		Method of Co otary (air)		l		Bivel. 18		
	Rotary (conventional)	ir percussion oring	Diamond Jetting Driving		Digging Other	10	0 H T50'	#6945 hvilage D
		Water Use					Sout	hvillage or
	Stock	ommercial unicipal	Not used	ir conditioning		Audit No.	Data Wa	L Completed
	Water Supply		s of Well		oned, (Other)	Z Was the well ow	23304	2005 0930
	Test Hole Aband	oned, insufficient sup oned, poor quality	Replaceme			package delivered	d? Yes No	2005 1003
ł	Well Name of Well Centractor	Contractor/Tech		ell Contractor's L	icence No.	Data Source	Ministry Use On Contract	
	Busines Address (street name	number, city etc.)	Dd D	T		Date Received	TA 2005 DD Date of Ir	Ispection YYYY MM DD
	Name of Well Technician (last na	ame, first name)	non	ell Technician's L	icence No.	Remarks		cord Number
	Signature of Technician/Contract			Supmitted	M 184	,		
•	0506E (09/03)	Contra	actor's Copy 🗍 🛛 🛛	linistry's Copy	Well Ow	ner's Copy 🔲	Cette formu	le est disponible en français

Instructions for Completing Form A 0 36 3 2 page	s form.
 All Sections must be completed in full to avoid delays in processing. Further instructions and explanations are available on the back of this Questions regarding completing this application can be directed to the Water Well Management Coordinator at 416-235-6203. All metre measurements shall be reported to 1/10th of a metre. Please print clearly in blue or black ink only. Well Owner's Information and Location of Well Information MUN CON LOT Metre Measurements shall be reported to 1/10th of a metre. Please print clearly in blue or black ink only. Mun CON LOT MUN CON LOT LOT Con LOT Con LOT LOT City/Form/Village Site/Compartment/Block/Tract ate/ GPS Reading NAD Zope Easting Northing Unit Make/Model Mode of Operation: Undifferentiated Differentiated Averaged Log of Overburden and Bedrock Materials (see instructions) General Colour Most common material Other Materials General Description 	- 14 Metres
Questions regarding completing this application can be directed to the Water Well Management Coordinator at 416-235-6203. All metre measurements shall be reported to 1/10 th of a metre. Please print clearly in blue or black ink only. Well Owner's Information and Location of Well Information R##/Street Number/Name H G 3 A Out full Make D (ve City/Form/Village GPS Reading NAD Zope Easting Northing Unit Make/Model Mode of Operation: Undifferentiated Differentiated Differentiated, specify Log of Overburden and Bedrock Materials (see instructions) General Colour Most common material Other Materials General Description Depth From Sould gravel	- 14 Metres
Please print clearly in blue or black ink only. Ministry Use Only Mun Con Lot Lot Lot R##Street Number/Name Hog A South Villege D Ve City/Down/Village Site/Compartment/Block/Tract eter Hog A South Villege D Ve Unit Make/Model Mode of Operation: Undifferentiated South Villege Site/Compartment/Block/Tract eter Site/Compar	Vietres
Well Owner's Information and Eccation of Well Information QHOWNEr's Information and Eccation of Well Information RR#/Street Number/Name + G934 Oscode GPS Reading NAD 813 100 454771 50(0304) Mode of Operation: Unit/Make/Model Mode of Operation: Unit/Make/Model Big of Overburden and Bedrock Materials (see instructions) Other Materials General Colour Most common material Other Materials Gauge Scale Other Materials	Vietres
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RR#/Street Number/Name City/Form/Village Site/Compartment/Block/Tract etc/L GPS Reading NAD Zope Easting Northing Unit Make/Mode Mode of Operation: Undifferentiated Overaged Log of Overburden and Bedrock Materials (see instructions) Other Materials General Colour Most common material Other Materials General Description Depth From	Vietres
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th 6934 Out h Villege Drive See Y Hond AM-1065 Hond	Vietres
8 3 18 · 454 701 50 0361 Mogellow Differentiated, specify Log of Overburden and Bedrock Materials (see instructions) Differentiated, specify General Colour Most common material Other Materials General Description Depth I Sand Grouel Other Materials General Description Depth I	Vietres
General Colour Most common material Other Materials General Description Depth Sand Gravel 0 1	
General Colour Most common materials General Description From From	
Bray linestone 294	<u>5.7a</u>
Hole Diameter Construction Record Test of Well Yield	
Depth Metres Diameter Inside Wall Depth Metres Pumping test method Draw Down Record From To Centimetres diam Material thickness Metres Pumping test method Draw Down Record	
centimetres centimetres From To Subrum min Metres min	Metres
Casing (metres) Level D	$2^{/3}$
[683] Plastic Concrete 48 0 [1463] (litres/min) 4 (1464) 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	125
Water Mind of Water	4
m Freed Sulphur Plastic Concrete	102
Other:	5.87
	378
Screen Recommended pump 10 Q 9 10	249
Gas Satty Minerals Outside Fibreglass Slot No. Other: Other: If flowing give rate - 20 12 20 10	32
After test of well yield, water was (ittres/min) 25 3 3 25 25 1	16.0
Other, specify STED No Casing or Screen 40 12.68 40	
Chlorinated Yes No X Spen hole 14.00 45.70 50 12.75 60	
Plugging and Sealing Record Annular space Abandonment Location of Well Depth set at - Metres Material and type (bentonite slurry, neat cement slurry) etc. Volume Placed In diagram below show distances of well from road, lot line, and building metres	ıg.
Depth set at - Meterial and type (bentonite slumy, neat cement slumy) etc. From To Material and type (bentonite slumy, neat cement slumy) etc. Volume Placed (cubic metres) 14.097 Next Cennett Slurry 1816 1097 O Bentonite Slurry 363	
1097 a pertonite Slurrit i 363	
Late 10 2KN	\land
Method of Construction	
Cable Tool	
Water Use Water Use	
Stock Commercial Not used	
Irrigation Municipal Cooling & air conditioning Final Status of Well Audit No. Z 39914 Date Well Completed	3115
Water Supply Recharge well Unfinished Abandoned, (Other) Observation well Abandoned, insufficient supply Dewatering	316
Test Hole Abandoned, poor quality Replacement well Well Contractor/Technician Information Ministry Use Only	
Name of Well Contractor , O Well Contractor's Licence No. Data Source Contractor	
	M DD
Name of Well Technician (last name, Trist name) Well Technician's Licence No. Remarks Well Record Number	
Signature of Pechnician/Contractor Date Submitted	
0506E (09/03) Contractor's Copy 🗋 Ministry's Copy 🖉 Well Owner's Copy 🗌 Cette formule est disponible en	français

		/inistry of		Well Tag	Number (P	Place stic	ker and prir	nt number b	elow)					Well	Rec	ord
		he Enviroi	nment		A 035	539	9			Reg	gulatic	n 903	Ontari	o Water Re	sourc	es Act
Instructions	s for Completin	g Form			A035399	1		·						page		of
For use	in the Province of	of Ontario														
	ons must be com ns regarding com														of this	form.
All metr	e measurement	s shall be	reported	to 1/10 ^{tl}	h of a metr	re	vvater		anayen					<u> </u>		
	print clearly in blu								00		Vinisti	'y Use	Only	LO	-	
Well Owner First Name	's Information	Last Nam		Vell Info				s (Stroot	CC	r/Name, F	P t at	Conce				
	Custom Buil									P.O. B						
County/District	t/Municipality		Township	•	n/Village		Pr	ovince	Posta	Code		Telep	hone N	lumber (incl	ude are	ea code)
	Carleton	/District/Mu	Kana	ata		Townsł	1 -	Intario	KZI	(3C5		61	3	Concessi	<u>n</u>	<u></u>
Ottawa	Carleton						•	e					3	4		
RR#/Street Nu	mber/Name					City/	sgood Town/Vi				Site/C	ompar	tment/l	Block/Tract	etc.	
GPS Reading	South Vill NAD Zon		g ,	North	ning	Unit	Make/M	eely odel	Mode	of Operat	ion:	Undif	ferentiate	ed 🙀 Av	eraged	
	8 3 18		882		12483		rmin			· · · · · · · · · · · · · · · · · · ·		Differ	entiated,			
	rburden and Be		aterials (Other Ma					Conorol	Descripti				Depth	N	letres
General Colour	Most common	material		Other Ma	tenais				Genera	Descripti				From		То
brown	sand													0		21
gray	sand & gr	avel						We	t					1.21	3.0)4
gray	clay							pa	cked				,	3.04	11	.88
gray	sand & gr	avel												11.88		.10
gray	limestone		<u>.</u>									· · · · ·		13.10	48	.76
gray &	white sand	stone												48.76	95	.09
		·												<u> </u>		
	Diameter letres Diameter			Cons	truction Re					Dumming	toot m			Il Yield	Recov	
Depth N From	To Centimetres	Inside diam	Mate	rial	Wall thickness		Depth	Me	tres	Pumping	lest m					ter Level
0 1	4.93 #2.75	centimetres			centimetres	s	From	Т	0	Subm Pump int	ersi	ble	min Static	Metres m	in N	Aetres
					Casing	·				(metres)	60	.95	Level			
14.93	95.09 15.23		Steel							Pumping (litres/mi	rate - n) 54	.6	1	10.32	10).21
Wate	r Record	15.86	Plastic Galvanize	-						Duration		-	2 .	10.32 2	2 10).22
Water found at Metres	Kind of Water			Fibreglass	0.48	+.	45	14.9	3	1 _hrs		min				
m	Fresh 🗌 Sulphur		Plastic							Final wa of pumpi	ina	•	3	10.33	3 10).22
	Salty Minerals		Galvanize	bd						Recomm	ended	Detr 34 pump		10,33 4	1 10	.23
82.90	Fresh 🗌 Sulphur			Fibreglass							allow			10133	10	
Gas	Salty 🗌 Minerals		Galvanize	Concrete						Recomm depth.			5	10.33	5 10).22
NOT TEST	ED · · · · · · · · · · · · · · · · · · ·			Screen			Recomm			10	10.33 1	0 10	. 2 22			
Gas	Salty Minerals	Outside	Steel	Fibreglass ³ Slot No.				45mi			*****	5 10	22			
Other:	ll yield, water was	diam	Plastic	Concrete						If flowing	give ra res/min			10.34).22).20
Clear and se			Galvanize	bd						If pumpin ued, give	a disco	ntin-		W.34).19
Other, spec	ify			No C	asing or S	creen				uea, give	reason		40 ·	10_34 4	0 10).19
Chlorinated	Yes		Open hole	e	e.			05.0	~).19
		15,23		Annula			. <u>93</u>	95.0	19			ation o		10.34 6		1.19
Depth set at - M	Plugging and Se	_		Annula	vetc Vol	lume Pl		In diagr	am belov	show dista				, lot line, and	buildin	g.
	To Material and ty					ubic me	tres)		e north by					······		~
14.93	0 Groute	d Bento	nite S	lurry	13	18m3_			₽				rot	23		
				<u> </u>				17	V	1				1		}
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l		Aethod of	Construct	ion				Acscot						back		
Cable Tool		^(air) mud		Diamond		Dig	ging	M								
Rotary (conv	entional)	cussion	=	Jetting Driving		Oth	er	ď								
Rotary (reve		Wat	er Use	Driving				R		4	$\mathcal{M}_{\mathcal{H}}$	-				
Domestic	Industri			Public Supp	oly	Oth	ier	đ		200	10L	ase				
Stock	Comme Municip			Not used Cooling & a	air conditioning	g		Audit N	lo	000	70	Dat	e Well C	Completed		<u> </u>
			tus of We		· · · · · · · · · · · · · · · · · · ·				Ζ,	<u>392</u>				2006		3130
Water Supply Recharge well Unfinished Abandoned, (Other) Was the well owner's information Date Delivered YYYY MM DD																
Test Hole	Test Hole Abandoned, poor quality Replacement well															
Nome -5161-11-0		atractor/Te	chnician I			r's Licen	ice No	Data S	ource		wiinis	Cor	nte Univ	.		
	Well Contractor/Technician Information Ministry Use Only Name of Well Contractor Well Contractor's Licence No. Data Source Contractor 5 5 5 Capital Water Supply Ltd. 1558 Date Received YYYY MM DD Date of Inspection YYYY MM DD															
								Date R	eceived				e of Insp		/ MN	d DD
Box 490 Name of Well T	Stittsville echnician (last name,	first name)	rio K3S	146	/ell Techniciar	n's Licer	nce No.	Remar	rk i ks	9 200	J	We	II Recor	d Number		
	Stephen gnician/Contractor				70007											
	ophician/Contractor	ŝ			ate Submitted y		M DD									
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Ministry of the Environment Well Tag I A 036046 *below) Regulation 903 Ontario	Well Record
Instructions for Completing Form $A036046$	page of
Instructions for Completing Form For use in the Province of Ontario only. This document is a permanent legal document. Please retain for future referee All Sections must be completed in full to avoid delays in processing. Further instructions and explanations are available of Questions regarding completing this application can be directed to the Water Well Management Coordinator at 416-238 All metre measurements shall be reported to 1/10 th of a metre. Please print clearly in blue or black ink only.	ence. n the back of this form.
Well Owner's information and Location of Well information	4
RR#/Street Number/Name GPS Reading NAD Zone Easting Northing Of IVE Unit Make/Model Mode of Operation: Unifferentiated 8 3 18 455 08 5012390 Model Mode of Operation: Unifferentiated, Log of Overburden and Bedrock Materials (see instructions)	Averaged
Construction Most common material Other Materials General Colour General Description	Depth Metres From To
Sind & Balders	0 15 85
Dork Grey Line stone	15 85 24,69
	<u> </u>
Hole Diameter Construction Record Test of We	ll Yield
Wall Depth Weters Time W	Down Recovery ater Level Time Water Level
centimetres From To Subrum min	Metres min Metres
Casing (metres)	,97 5.42
Pumping rate - 1 - (litres/min)	5.04 1 4-26
	5.16 2 4.21
At Metros Kind of Water	C19 2416
Frest OSulphur Plastic Concrete of purposed of purpose	2,17 34,10
Other: TES(ED) Steel Fibreglass	5,00 4 4.11
Gas Salty Minerals Plastic Concrete	5, 24 5 4,08
Other: Galvanized Galvanized Recompended pump 10	530 10 4.02
Gas Salty Minerals Outside Eibreglass Slot No	33 15 3,99
Other:	35 20 3 97
Citarand service tree of the office of the o	39 30
Other, specify No Casing or Screen	4 0 40 4 1 50
Chlorinated Xes No 200 No 200 Nole 17,68 24,69 50 50 50 50 50 50 50 50 50 50 50 50 50	4 6 0
Plugging and Sealing Record Annular space Abandonment Location of Well	
Depth set at - Metres Material and type (bentonite slurry, neat cement slurry) etc. Volume Placed (cubic metres) In diagram below show distances of well from road, Indicate north by arrow.	lot line, and build
1768 1463 Neat Conert Slurn .1816 Lake Forest Wal	K
14,63 0 Bentonite Slurry .858	14
Method of Construction # 6970 Cable Tool Rotary (air) Diamond Digging Rotary (conventional) Dair percussion Jetting Other	e Jerm
Method of Construction	-
Cable Tool Rotary (air) Diamond Digging Rotary (conventional) Air percussion Jetting Other	
Rotary (reverse) Boring Driving	
Water Use Appomestic Industrial Public Supply Other	
Stock Commercial Not used	#
Irrigation Municipal Cooling & air conditioning Audit No. Z 39992 Date Well Coling Final Statús of Well	2006 64 19
Water Supply Recharge well Unfinished Abandoned, (Other) Was the well owner's information Date Deliver	DD MM DD
Test Hole Abandoned, poor quality Replacement well	
Name of Well-Contractor Science No. Data Source Contractor	
HIR KOCK LAILING OFTO ILL	ection YYYY MM DD
DREI KICHMOND ONT KOAZZO JUNICZUM	
Name of Well Technician (last name, first name) Well Technician's Licence No. Remarks Well Record	Number
Signature of Jechnica Wednitractor	
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	Ministry of Well Ta the Environment	A 043535	ber below)	Well Record Regulation 903 Ontario Water Resources Act					
Instructions for Completir	a Form	A0435	35	page of					
• For use in the Province	of Ontario only. This docum	ient is a permanent lega	I document. P	⊐ lease retain for future reference.					
 All Sections must be cor Questions regarding corr 	npleted in full to avoid delays pleting this application can l	s in processing. Further be directed to the Water	instructions and Well Manager	d explanations are available on the back of this form. nent Coordinator at 416-235-6203.					
	s shall be reported to 1/10			Ministry Use Only					
Well Owner's Information		ormation MUN	CC	DN LOT					
RR#/Spreet Number/Name	i or lete		lage A	(), Site/Compartment/Block/Tract etc.					
GPS Reading NAD Zer	with beach E Basting North		eeu	of Operation: Undifferentiated WAveraged					
Log of Overburden and Be	3 ASAS69 50	12144 Mage		Differentiated					
General Colour Most common		· · · · · · · · · · · · · · · · · · ·	Genera	I Description Depth Metres					
*	Sand								
Gre	ey linesta	re	`	13,10 28,95					
<u>レ</u>	Sandsto	me		28 95 34 44					
V	lineste	me		34,44 41,14					
	Sandsto	re.		41, 17 42,00					
	· · · · · · · · · · · · · · · · · · ·								
Hole Diameter Depth Metres Diameter		struction Record		Test of Well Yield Pumping test method Draw Down Recovery					
From To Centimetres	Inside diam Material	Wall Depth thickness	Metres	Time Water Level Time Water Level					
0 42,66 15,23	centimetres	centimetres From	То	Pump interes et al. Static 286 41,72					
	Steel Fibreglass	Casing		Pumping rate - 5 1 6 7 2 1 39 29					
		.48 0	15.84						
Water Record Water found at Mare Kind of Water	C. Galvanized								
5 m Fresh Fresh				Final water level.end 3 0.17 3 33,30					
Gas Salty Minerals	Galvanized			Recommended pump 4 200 4 3820					
Gas Salty Minerals				Reconstructed pump 5 14 10 5 3179					
Other:	Galvanized			Recommended symp 10 21 51 10 24 56					
m Fresh Sulphur Gas Salty Minerals	Outside Steel Fibreglass	Screen		rate. (Intrestmin) 15 26 38 15 7.51					
Other: After test of well yield, water was	diam Plastic Concrete			If flowing give rate - 20 20 5 10 (litres/min) 25 33,16 25 34,5					
Cooperation for transfor	Galvanized	-		If pumping discontin- ued give reason					
U other specify ED		Casing or Screen	16	40 37,00 40 9.34					
Chlorinated Kyes 🗌 No	Appen hole	15,23	42,66	60 41.72 60 5.48.					
Plugging and Se		Valuma Diacod	In diagram below	Location of Well w show distances of well from road, lot line, and building.					
From To Material and ty	ce (bentonite slurry, neat cement slurry	(cubic metres)	Indicate north by						
DA O Beto	nite Sluin	<u>y .227</u> J .781	-#13	each Blud SU					
		1 .01	B	each Blud SM					
				1 4=8					
	Method of Construction		150	14-25					
Cable Tool	(air) Diamond	Digging		¥ 1.5Km <-25-					
Rotary (conventional) Rotary (reverse) Boring	cussion Jetting Driving	Other		(\mathfrak{D})					
	Water Use								
Stock	ercial 🗌 Not used			•					
Irrigation Municip	Final Status of Well	air conditioning	Audit No. Z	48636 Date Well Completed					
Water Supply Recharge well Unfinished Abandoned, (Other) Was the well owner's information Date Delivered YYYY MM DD									
Test Hole Abandoned,	poor quality Replaceme	ent well		Ministry Use Only					
Name of Well Contractor	ntractor/Technician Information	/ell Contractor's Licence No.	Data Source	Contractor 119					
HIR KOCK JA Business Address (street name, name)	ber, city etc.)	≥ 109	Date Received						
KK+	1 CHMOND	ANT KOAJZO	JLI -	/ 2000					
Name of Well Technician (last name,		/ell Technician's Licence No.	Remarks	Well Record Number					
Signature of Technician/Occuractor		ate Supmitted							
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	Ministry of the Environment	Well Ta A 043	520 nber below)	Well Record							
Instructions for Completir	a Form	A04	3520	Regulation 903 Ontario Water Resources Act page of							
• For use in the Province	of Ontario only. Thi	s document is a perma	nent legal document. F	→ Please retain for future reference							
 All Sections must be cor 	npleted in full to avo	id delays in processing	Further instructions an	d explanations are available on the back of this form. ment Coordinator at 416-235-6203.							
 All metre measurement Please print clearly in blue 	s shall be reported	to 1/10 th of a metre.		Ministry Use Only							
Well Owner's Information		Vell Information	MUN	ON LOT							
RR#/Street Number/Name	R#/Street Number/Name LP D D C City/Fown/Village Site/Compartment/Block/Fract etc.										
GPS Reading NAD Zon	Easting	Northing Ur	it Make/Model Mod	e of Operation: Undifferentiated							
8∣3 C Log of Overburden and Be	drock Materials (50121991	Magelbh	Differentiated, specify							
S	nda gra	avel		0 13,10							
Gren	1 Line's	fore		13,10 36,57							
Ger	1 Jana	store		36,57 53.33							
Hole Diameter	l l	Construction Record		Test of Well Yield							
Depth Metres Diameter From To Centimetres	Inside diam Mater	rial thickness	Depth Metres	Pumping test method Draw Down Recovery							
0 533 523	centimetres	centimetres	From To	Suprum min Metres min Metres							
		Casing		Pump intersection Static 78 296 (metres 8, 6 Level 078 296							
	15-88 Plastic Galvanized	Fibreglass Concrete	0 15,84	litreemine 6 1 275 1 19.60							
Water Record Water found A Kind of Water		d Fibreglass		Duration of pumping 2 3 6 2 7 8							
m Freen Sulphur				Final water lave end 3 4 3 3 5 8							
Gas Arealty Indials	Galvanized			Recommended pump 4 15 5 4 14.17							
m Fresh Sulphur Gas Salty Minerals		Fibreglass Concrete		Recommended pump 5 545 5 208							
Other:	Galvanized	d Screen		depth <u>4-8</u> , metres Recommended pump 10 1736 10 11,15							
Gas Salty Minerals	Outside Steel	Fibreglass Slot No.		rate. (Ittres/min) 15 853 15 0.96							
After test of well vield, water was	diam Plastic			(litres/min) 25 20 08 25 0 87							
Claran Headiment fred O	Galvanized	No Casing or Screer	•	If pumping discontinued, give reason. 30 50 57 30 10.855							
			5.23 53.33	50 21. 63 50 10.805							
Plugging and Se			donment	60 57 96 60 15.79 Location of Well							
Donth oot of Motroo	e (bentonite slurry, neat ce	Volumo	Placed In diagram below	w show distances of well from road, lot line, and building							
1523 1219 Nead	+ Cenet?	Sturry .20		South (F)							
1219 0 Bent	mite Slu	111 - TE	35 #1550	ARIA							
	· · · ·			A DIVA							
<i>w</i> ,	······································			1 Long 15							
Cable Tool Rotary (lethod of Construction		gging	\$ 1.3Km 25							
Rotary (conventional)	ussion 📃 J	etting 🗌 Ol		59							
Rotary (reverse) Boring	Water Use	Driving		12							
Domestic Industria		Public Supply	her	(0							
Irrigation Municipa	Final Status of Well	Cooling & air conditioning	Audit No. Z	48637 Date Well Completed							
Water Supply Recharge we		Infinished Abandone	d, (Other) Was the well ov	vner's information Date Delivered YVYY MM DD							
Test Hole Abandoned,	poor quality 🗌 R	Dewatering		Ministry Use Only							
Name of Well Sontractor	tractor/Technician In	Well Contractor's Lice	nce No. Data Source	Contractor 1119							
A.P. FOCK DRI Business Address (street name numb	er. city etc.)		Date Received								
Name of Well Technician (last name, f	RR-21 ACOPTIONIS ON ROMALD SEP 01 COUN										
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	Water Record Water found at Metres Kind of Water		Galvanized	0.48	40.60	11,09	Duration of pumping 2	8,30 2	9.27
	at Metres Kind of Water	<u></u> /. r	Steel Fibreglass					8.36 3	9.06
	Gas Salty Minera						Recommended pump 4	857 4	891
	m Fresh Sulphu		Steel Fibreglass				Shallow Deep Recommended pump 5	866 5	8.80
و مع	Other:		Galvanized	Screen		<u>, , , , , , , , , , , , , , , , , , , </u>	depth. <u>30 metres</u> Recommended pump 10		
	Gas Salty Minera	ls Outside	Steel Fibreglass	Slot No.			rate. 40 10 15 (litres/min) 15	922 15	923
	After test of well yield, water was	- diam	Plastic Concrete					9.50 20 9.69 25	7.77
	Clear and sediment free			asing or Scr	een	If pumping discontin- ued, give reason. 40 78 4			252
	Chlorinated DYes No		Open hole		14,63	48.68	50	0.00 50 016 60	
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		1		3	.73		the Million DA.		
		Method of C	<u>`</u>			Sou	the Dillage DA.	1244	
	Cable Tool	ry (air)	Diamond	· · · ·	Digging			11	
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	Water Supply Recharge		us of Well	Abando	oned, (Other)	Was the well ov	JZUJ/ vner's information Date Delive	ired YYYY	MM DD 11 22 MM DD
	Observation well Abandone	ed, insufficient su	and the second			package delivere		n an	
	Well C		hnician Informatio		icence No.	Data Source	Ministry Use Only Contractor		
	Name of Well Contractor	Reen)	1414			14	14	
	Business Address (street name, nu	Θ	1	- 11 - 7 - 1		Date Received		bection YYYY	MM DD
	Name of Well Technician (last nam	e, tirst name)	0	ell Technician's I	LICENCE NO.	Remarks	Well Reco	a Number	
	Signature of Technician/Centractor	Jend	Dat						3
	0506E (09/03)	V Cont	ractor's Copy 🔲 Mi	inistry's Copy	Well Own	er's Copy 🔲	Cette formule	est disponible	en français

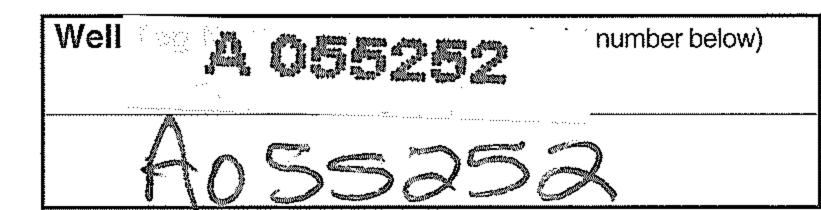
🕅 Ontario	Ministry of the Environment	Well A 05:	2500	umber below)	Well Record Regulation 903 Ontario Water Resources Act
Instructions for Completi	na Form	Ans	25	$\bigcirc \bigcirc$	page of
• For use in the Province	of Ontario only. Th	is document is a peri	manent leg	al document. P	→ lease retain for future reference
 All Sections must be con Questions regarding cor 	mpleted in full to ave mpleting this applica	oid delays in process ation can be directed	ing. Furthe to the Wa	r instructions and	d explanations are available on the back of this form. Desk (Toll Free) at 1-888-396-9355.
 All metre measuremen Please print clearly in blue 	ts shall be reporte	d to 1/10 th of a metre	»		Ministry Use Only
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∾ F= F=					
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Appress pr well Location (County	(District/Wunicipality)	10	wnship	۸	Lot
RR#/Street Number/Name	arleto		City/Town/	eede	Site/Compartment/Block/Tract etc.
GPS Reading NAD Zon	h Beach	Northing		eely	4M-1265 516 117
8 3	3 454738	3 5012250	110 -		e of Operation: Undifferentiated Averaged Differentiated, specify
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					-
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From To Centimetres	Inside diam Mate	unickness	Depth	Metres	CAR P. D Time Water Level Time Water Level
0 48,114,91	centimetres	centimetres Casing	From	То	Pumpeintake set at - Static 43
	Steel]Fibreglass			Pumpintake set at - Static (metros) - Static Lever 0, 43 3,44 Pumping rate - 1 1,75 1 1,40
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Water found at Metres Kind of Water		Fibreglass			hrs + min
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Other:		Fibreglass			Recommended pump 4 1247 4 11 03
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Other:	Galvanize	Screen			Recommended pump 10 27- 10 10.50
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Other, 'specity TED		No Casing or Scr	een		If pumping discentin- ued, give reason. 30 3.28 30 10.45 40 1.34 3 40 10.40
Chlorinated Ses No			14.32	48.77	50 134-3 50
Plugging and Se	aling Becord	Annular space 🗌 At	Dandonment		Location of Well
Death and Main	e (bentonite slurry, neat ce	ment slurn) etc. Volum	e Placed c metres)	In diagram below Indicate north by	show distances of well from road, lot line, and building
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				1. and a the second	
M Cable Tool Rotary (a	ethod of Constructi		Diaging	¢.	T, IKM S B
Rotary (conventional)	ussion 🗌 J	etting	Digging Other	180	Souther
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Domestic Industria		ublic Supply	Other		
Irrigation Municipa		cooling & air conditioning		Audit No.	55596 Date Well Completed
Water Supply Recharge we			ned, (Other)	Was the well own	ner's information Date Delivered YYYY MM DD
Test Hole Abandoned, r	poor quality	ewatering eplacement well		package delivered	E autria
Name of Well-Gentractor	ractor/Technician In	formation	icence No.	Data Source	Ministry Use Only Contractor
HIR KCK	<u>illing</u>	OLAD IL	19	Date Received	2-21007 Data of Inspection
14 I described a la la ser la	MADAN	ONT Kof	6250		
L TOGAN 3	And the second s	Well Technician's L		Remarks	Well Record Number
Signature of Technician/Contractor	>	Date Submitted	0123		
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😵 Ontario	Ministry of the Environment	Well 1		int number below)	Regulation 903 Ontar	Well Record
Instructions for Complet	ing Form	Ao4	-25	4-1		page of
 For use in the Province All Sections must be compared by the section of the se	e of Ontario only. The ompleted in full to avoid mpleting this applicants shall be reported	oid delays in processin ation can be directed t	g. Further	instructions and	J lease retain for future refer d explanations are available o Desk (Toll Free) at 1-888-3 Ministry Use Only	on the back of this form.
F Address of Well Location (Coun			/pship		Lot se	Concession
RR#/Street Number/Name	Lake Fe	nest haf Bold 465	Dity/Town/W Init Make/M	6 ree	of operation: Undifferentiat	Block/Tractery 265 127 ed Averaged
General Colour Most commo	n material nd Gizu Mestone	Other Materials		Genera	al Description	$\begin{array}{c c} \hline Depth & Metres \\ \hline From & To \\ \hline O & 1250 \\ \hline 1250 & 54.86 \\ \hline 1250 & 54.86 \\ \hline \end{array}$
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at Kind of Water	Steel]Fibreglass				
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Asas Salv Minerals	Plastic Galvanize] Concrete				4,50 5 12,37
m Fresh Sulphur		Screen			Recommended pump 10	6.07 10 11.07
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	f the second			101	Forest Wall	
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Irrigation Munici	Final Status of Wel	Cooling & air conditioning		Audit No.	55551 Date Well	ompleted
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Test Hole Abandoned		Replacement well		······	Ministry Use Only	
Name of Well Contractor DRIL	UNG COL	Well Contractor's Lic	ence No.	Data Source	Contractor	
Business Address (street-name, num	ber, city etc.)	N KOA2	LO	Date Received	2 2007 MM DD Date of Inspe	ection YYYY MM DD
Name of Well Technician (last name,	first name) 	Well Technician's Li	cence No.	Remarks	Well Record	Number
Signature of Technician/Contractor	>	Date Submitted	01122		· · ·	
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	nistry of e Environment	Well T A QA	9710	umber below)	Regulation 903 Ontari		Record
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 All metre measurements Please print clearly in blue 		to 1/10 th of a metro	€.		Ministry Use Only		
		60	SO C	ode	Lot	Concession	
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Line	store	1 20 246 (2)				13.11	38,10
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					······································		
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				1-54	(litres/mi		11. 11
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m Fresh Sulphur	Steel F	-			Final water level end	3.50 3	
Gas Stur C Minerals	Galvanized				of pumping metres Recommended pump 4	3.54-4	
GAR Fresh Dennur		-			type.	A1201A 1100	
Other: Minerals	Plastic C C	Joncrete			Recommended pomp 5	> / 5	
m Fresh Sulphur		Screen	· · · · · · · · · · · · · · · · · · ·		Recommended pump 10	365 10	
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After test of well vield, water was	Galvanized	oncrete			(litres/min) 25	374 25	
Other species 3	· · · · · · · · · · · · · · · · · · ·	No Casing or Scr	een		ued, give reason. 30	<u>3-74-30</u> -74-40	
Chlorinate Ves No	pen hole		14.93	9448	50	50	
Plugging and Sealin	ng Record	🕯 Annular space 🔲 Al	bandonment		Location of Well	74 60	
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		/			1/6	akefor	rest 1
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Test Hole Abandoned, poo Well Contrac	r quality Re	placement well			Ministry Use Only		<u> </u>
Name of Well Contractor	101	Well Contractor's	icence No.	Data Source	Contractor	111	9
Business Address (street name, number, o	city etc.)	ID 1119		Date Received			MM DD
Name of Well Technician (last name, first r	MOND E		icence No	Date Received APR 1 Remarks	Well Record N	1	
Signature of Technician/Contractor	s Ken	Date Submitted		nomans -		NUHDEL	
x Kontund		Date Submitted	0330				•
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Instructions for Completing Form



Well Record **Regulation 903 Ontario Water Resources Act**

page ____ of ____

- For use in the Province of Ontario only. This document is a permanent legal document. Please retain for future reference. ۲
- All Sections must be completed in full to avoid delays in processing. Further instructions and explanations are available on the back of this form. ۲
- Questions regarding completing this application can be directed to the Water Well Help Desk (Toll Free) at 1-888-396-9355. ۲
- All metre measurements shall be reported to 1/10th of a metre. ۲

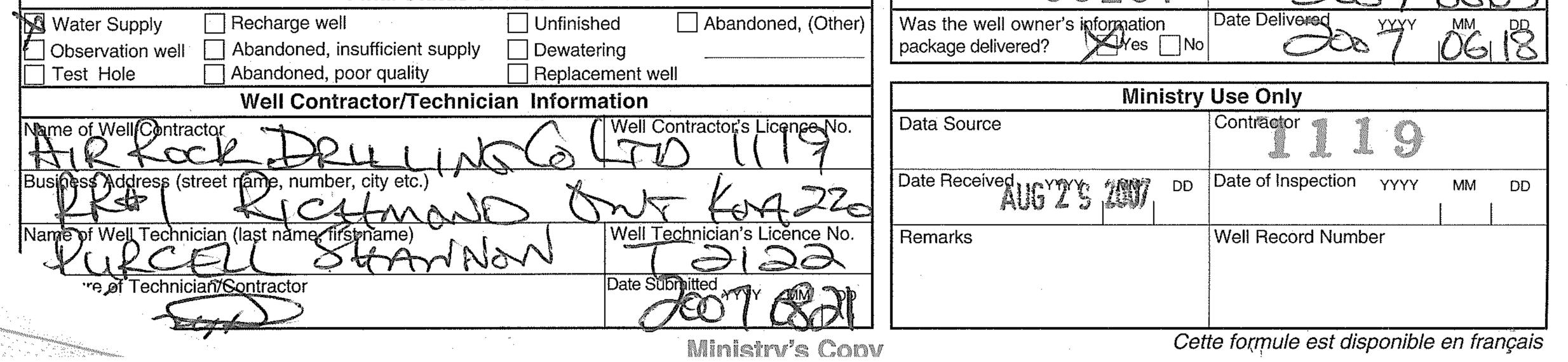
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Wall Owner's Information and Location of Wall Information	MUN CON LO	от

Well Owner's Information and Location of Well Information

			Min	istry Us	se On	ly		
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Log of Overburden and Bedrock M	aterials (see instructions)		
General Colour Most common material	Other Materials	General Description	Depth Metres From To

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Image: Support Image	Water found / Kind of Water				·	· · · · · · · · · · · · · · · · · · ·	
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Water Use		Water Use	·····			×	
Domestic Industrial Dublic Supply Other Stock Commercial Not used Other	1		oly 🗌	Other		(Y)	
□ Irrigation □ Municipal □ Cooling & air conditioning Audit No. Z 65197 □ Date Well Completed		al Cooling & a	ir conditioning		Audit No.	GG107 Date Well C	ompleted



Well Tag No. (Place Sticker and/or Print Below) Ministry of Ontario Ministry of the Environment Well Record Regulation 903 Ontario Water Resources Act Page of Well Owner's Information Filst Name Last Name nail Address Well Constructed by Well Owner ordor e(Inc elephone No. (inc. area code) ng Address (Street Number/Name, RR) IA 210 AM J >0× and Part A Construction and/or Major Alteration of a Well ownship of Well et Num Addre ber/Name, RR) Concess _ Postal Code City/Town/Village Province Ontario < Easting Northing GPS Unit Make Mode of Operation: Averaged Undifferentiated 50/191 Mae 3 lo 55 NAD 8 3 Offerentiated, specify Overburden and Bedrock Materials (see instructions on the back of this form) Depth (Metre: General Colour Most Common Material General Description From we U me **Results of Well Yield Testing** Annular Space/Abandonment Sealing Record Depth Set at (Metres) Type of Sealant Used Volume Placed Check box if after test of well yield Recovery То (Cubic Metres) vater was (Material and Type) Time Water Leve Water Level 15 Clear-and sand free (Metres) (Min) (Min) (Metres) e Ó Cannot develop to sand-free Statio Stati state Level eve If pumping decontinued, give reason: 1 1 2 Pumping test me 3 3 Pump intake set at (Mekes) Water Use Method of Construction 4 4 Public Cable Tool Diamond Commercial Not used Domestic Pumping rate (Litres/min) Municipal Dewatering Rotary (Conventional) Jetting 5 5 Driving Test Hole Monitoring Livestock Rotary (Reverse) Rotary (Air) 🗌 Digging Irrigation Cooling & Air Conditioning Duration of pumping 10 10 Industrial Air percussion Boring min hrs + Other, specify Other, spec 15 inal water level end of pumping Status of Well (Metres) 20 20 Water Supply Dewatering Well Observation and/or Monitoring Hole Recommended pump typ Replacement Well Abandoned, Insufficient Supply Alteration (Construction) 25 25 Abandoned, Poor Water Quality Shallow Dee Other, specify Test Hole Recommended pump depth 30 30 Recharge Well Metre Location of Well Recommended pump rate Litres/min) 40 40 Please provide a map below showing: - all property boundaries, and measurements sufficient to locate the well in relation to fixed pointed 50 50 an arrow indicating the North direction
 detailed drawings can be provided as attachments no larger than legal size (8.5" by 140 If flowing give (Litres/min) 17 60 60 vidigital pictures of inside of well can also be provided Water Details Water found at Depth Kind of Water #16969 Fresh Salty Sulphor Minerals Metres Gas Water found at Depth Kind of Water Fresh Salty Sulphur Gas Minerals Metres Kind of Water Water found at Depth Gas Fresh Salty Sulphur Minerals Metres Casing Used Screen Used **Casing and Well Details** eter of the Hole (Centimetre Galvanized Galvanized Steel Steel Depth of 144 Fibreglass DIA eglass Date the Well Record and Package Plastic Plastic Package delivered vy/mm/ddi Relivered to Well Owner (yyyy/mm/dd) Wall Thick Concrete Concrete 3. No No Casing and Screen Used Well Contractor and Well Technician Information a (Metres nside (eter of the C Open Hole ce No MRILLING Depth of the Casing (Metres) TD No No Ministry Use Only al Code Business E-m Well Contractor No udit No z 78174 04220 Date Received (yyy APR 2 8 2008 chnician (Last Name, First Name) Date of Inspection (yyyy/mm/dd) econtres Date Submitted /mm/dd Remarks -0 @ Queen's Printer for Ontario, 2006 Ministry's Copy

() Ont	ario	Ministry of the Environm	ient	Well Tag No	5768	36	or Print Below)	Regulation	Well Record ulation 903 Ontario Water Resources Act			
				AC	55	768	C	lingunation		Page_		
(≝ Well Owner's In	formatio					03	0					
First Name	Inormatio	Last Nam	8		E-ma	ail Address					Vell Cor	nstructed
Oakora	Ħ		mes	Inc.	e	2 621	phrogens.	com	T	elephone N	by Well	
Mailing Address (SI	Feet Numbe	er/Name_RR)	Loc	Municipality		0	Province	Postal Code	MG	UR17	241	N999
Part A Construc	tion and/	or Major Altera	tion of a		Y		011		716IC		min	saas
Address of Well Loo				Do Town	ship		-	Lot	C	Concession		
1326	Son	the	Par	K Blel	own/Villag	0710	wa	110	Provinc	·e	Postal	Code
County/District/Mur	nicipality	1.to		City/1	GT	Tax in	- Ilmertes	_	Onta		KHI	PILIME
UTM Coordinates	Zone East	ing No	orthing	GPS Ur	nit Make	Model	Mode of	Operation:	Undiffer	entiated	Ave	eraged
NAD 8 3	1845	1455RS	012	125 W	TM	Mae	Jeban 🗌 Differe	intiated, specify				
Overburden and			ructions on	the back of this form Other Materials	n)	0	Canada	Description			Depth	(Metres)
General Colour	Most Con	nmon Material		Other materials			- / .	rescription			From	To
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				and the second second					-	1.000		
	Annula	r Space/Abando	nment Se	aling Record				Results of We	ell Yield	d Testina		
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0 14.6		Ciment	900	w	13	Dig	Cannot develop state	p to sand-free	Static	3.8	Static	23,54
			-			/	If pumping discontin	ued, give reason:	Level 1	1	Level 1	
							Duranian land math		2	6	2	2
							Pumping test meth	S. L		7.01		2000
Method of	Construct	ion		Water Use			Pump in ake set at	(Metres)	3	7,84	/ 3	19.20
Cable Tool	Di	amond P		Commercial		ot used	- 38	.7	4 4	9.20	4	15.51
Rotary (Conventio			omestic vestock	Municipal Test Hole		ewatering lonitoring	Pumping rate (Litro	s/min)	5	10.30	5	13.11
Rotary (Air)		igging 🗌 In	rigation	Cooling & Ai			Duration of pumpin	ig	10	14,50	40	9 08
Air percussion Other, specify	В		dustrial ther, specif	V			hrs +	min	15	14		F 20
			of Well				(Metres) 23		20	17.25	20	200
Water Supply		ewatering Well		Observation			Recommended put			18.78	-	3.90
Replacement We Test Hole		bandoned, Insuffici bandoned, Poor Wa		Alteration (C		,	and the second se	Deep	25	20-11	25	
Recharge Well	A	bandoned, other, s	pecify				Recommended pu		30	21.50	> 30	an an the second se
Please provide a ma	an below sho		n of Well				Recommended pu (Litres/min)		40	27.5	1 40	
- all property bounda	aries, and me	asurements suffici	ent to locat	e the well in relation	n to fixed poi	ints,	3-)	50	7271	1 50	
 an arrow indicating detailed drawings of 	can be provid	led as attachments		han legal size (8.5"	by 14")		If flowing give rate (Litres/min)		60	2256	1 60	
- vidigital pictures of	inside of wel	I can also be provid	bed							0.2.2	/	
		4					Water found at D		of Wate		100	
							42 Metres		esh 🗌	Salty	Sulphur	Minerals
		South 1	Barrow	h		1	Water found at D		of Wate		Culobur	Minerals
		South	Jean	ut			Water found at D		of Wate		Supru	
							Metres		esh 🗌	Salty	Sulphur	Minerals
		M					Casing Used	Screen Use	_			II Details
	Lon						Galvanized	Galvanized	Dia	ameter of the	Hole (C	entimetres)
	L	Sm					Fibreglass	Steel	De	pth of the H	ple (Metr	es)
Date Well Complet		e well owner's info	mation	Date the Well Rec			Plastic	Plastic		48	.7	
(yyyyimmidd)		e delivered?	No	Delivered to Well (Owner (yyyy	/mm/dd)	Concrete	Concrete		all Thickness	s (Metres)
		ntractor and We	II Techni	cian Informatio	n			nd Screen Use		side Diamete	er of the (Casing (Metres)
Business Name of	Well Contra	ctor //	A .	Well Co	ontractor's Lie	cence No.	Open Hole		200	15.5		e a la compañía de la Compañía de la compañía
Business Address	Street No./	Well	Drul	Municipality	71	9	Disinfected? Ves No		De	epth of the G	asing (M	etres)
1780	900Ea		,	N	ation	0	Ministry Use Only					
Province	Postal C	ode Busine	ss E-mail	Address	0.0)	Audit No Well Contractor No			air an		
Untario	KOF	the second s	[ochoisist	(Last Name First	Nama		z 79829			n/ddi		
6 11 3 9 8 10	Inc. area coo	(e) Name of Well	echnician	(Last Name, First			JUN 2 5 2008 Date of Inspection (yyyy/mm/dd)					
Well Technician's Lic	ence No. Si	gnature of Techni	ciary	Date S	submitted (y	yyy/mm/dd)	Remarks	2 0 2000	15.3			
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🕅 Ontario	Ministry of the Environment	l · · · · · ·	Place Sticker and		Well Record 903 Ontario Water Resources Act				
		0.6	4 05768	9	Regulation	903 Or	Page		
2++	-	<u> </u>	21607		_				
Well Owner's Informatio	Last Name		E-mail Address	e .					structed
Mailing Address (Street Number		Municipality		Province	Postal Code		elephone No		
6876 La Kes Part A Construction and	the second se	a Well	y	OqT.		700	I(P 1/6		
Address of Well Location (Stree		Townsh	ATT		Lot	C	Concession		
County/District/Municipality	Deach Blu	City/To	wn/Village	1 /	101	Provinc		Postal	Code
UTM Coordinates Zone, East	loton Northing	GPS Unit	OTTava Make Model	Greely M Mode of C	Operation:	Onta	r10 rentiated	1 Ave	raged
NAD 8 3 1 8 4	41512121510112	1119 UT	FM Ma		ntiated, specify				
Overburden and Bedrock N General Colour Most Cor	laterials (see instructions of mmon Material	o the back of this form) Other Materials	6	General D	escription				(Metres)
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Gen aran	wel B	melder		Parke	d		2	8	11
Green time	tone	enanc		layered				1(418.7
				/	Sec. Sec.				
			ingen size.						
A	Canada harmont S	Contine Record			Results of We	II Viel	d Testing		
Depth Set at (Metres)	Type of Sealant Use	and the second	Volume Placed	Check box if after tes water was:	Contraction of the second s	Dra	aw Down		ecovery
From To	(Material and Type)	nt	(Cubic Metres)	Clear and sand		(Min)	Water Level (Metres)	Time (Min)	(Metres)
0 13.4	Cimen gro	nil	10 Day	Cannot develop state		Static Level	3.90	Static Level	23.89
				If pumping discontine	ued, give reason:	1	5.90	1	
				Pumping test metho	od	2	6.99	2	20.14
	•	Water Har		Pump intake set at	(Metres)	3	7.60	3	9.02
Method of Construct	iamond DPublic	Water Use	Not used	38.7		4	9m	4	15.78
Rotary (Conventional)	etting Domestic riving Livestock	Municipal Test Hole	Dewatering	Pumping rate (Litre: 53	s/min)	5	10.28	5	9.14
Rotary (Air)	igging Irrigation	Cooling & Air		Duration of pumpin	-	10	14.12	10	8.50
Other, specify	oring Dindustrial	ify		Final water level end	d of pumping	15	17.35	15	4.75
Water Supply	Status of Well	Observation ar	nd/or Monitoring Hole	(Metres)		20	18.52	20	4.40
Replacement Well	bandoned, Insufficient Supply	Alteration (Co	instruction)	Recommended pur	mp type Deep	25	19.96	25	States .
	bandoned, Poor Water Qualit bandoned, other, specify	y D Other, specify	/	Recommended pur		30	20. R2	30	
	Location of Wel	1		38.7 Metre Recommended pur	40	27 48	40		
Please provide a map below sho - all property boundaries, and me	easurements sufficient to loca	ite the well in relation t	o fixed points,	(Litres/min) 53		50	22.19	50	
 an arrow indicating the North d detailed drawings can be provided vidigital pictures of inside of we 	ded as attachments no larger	than legal size (8.5" b	iy 14")	If flowing give rate (Litres/min)		60	22 09	60	
- vagiar pictures or inside or we	ii can also be provided		174		Wate	r Detai	K2.001	-	
				Water found at De		of Wate			C. Manuala
	1.0	D		Water found at De	0000	of Wate		ulphur	Minerals
S	outh Beach			Metres	Gas Fr			ulphur	Minerals
	Howe			Water found at Do		of Wate		ulphur	Minerals
40m	House			Casing Used	Screen Use		Casing a		
	Om			Galvanized	Galvanized	Dia	ameter of the		entimetres)
				Steel	Steel	De	pth of the Ho	the second se	es)
(yyyy/mm/qd) / packag	e well owner's information	Date the Well Recor Delivered to Well Ov	d and Package wner (yyyy/mm/dd)	Plastic Concrete	Plastic Concrete	W	all Thickness	(Metres))
2008/05/30	Yes VNo				nd Screen Used	-	0.4	8	
Well Con Business Name of Well Contra	ntractor and Well Techr		tractor's Licence No.	Copen Hole	Santa State	lins	side Diameter		Casing (Metres
Dourscois	well Ori	line 11	4114	Disinfected?		De	pth of the Ca		etres)
Business Address Street No./	vame, number, RR)		Tion	I INO	Ministr	y Use (Only	10	
Province Postal C		Address		Audit No. z 79		-	ontractor No		
Ontario KICA Bus.Telephone No. (inc. area coo	BKB //	(Last Name, First N	lame)	Date Received (yyyy		Date of	Inspection ()	yyyimn	Vdd)
611 398 7529	1 Michael		JUN	2 5 2008					
Well Technician's Licence No. Si	gnature of Technician	Date Sut		Remarks			in de la	1	1
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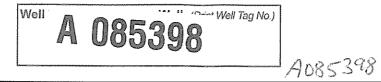
Ontario Ministry of the Environment	Well Tag No. A 0669	9 57	Well Record
Measurements recorded in:	A06695	57 Regulatio	n 903 Ontario Water Resources Act Page of
Well Owner's Information			Page of
1363 Sonth Beach County/District/Municipality O House Carlton UTM Coordinates Zone Easting NAD 8 3 184545925012 Overburden and Bedrock Materials/Abandonment Sea General Colour Most Common Material	City/Town/Village Greek Municipal Plan and Subley	Jumber 265 SL	Province Postal Code Ontario Other # 80 Depth (m/ft)
Sand & B Grey Un	detone		From 10 1250 12.50 41.14 41.14 54.80
Annular Space		Results of W	ell Yield Testing
Method of Construction Public Method of Construction Diamond Rotary (Conventional) Jetting Boring Digging	Well Use Commercial Municipal Test Hole Municipal Municipal Municipal	After test of wellpheld, water was: After test of wellpheld, water was: Other, specify Pump intake set at (m/ft) S & 81 Pumping rate (l/min / GPM) 34.07 Duration of pumping hrs + 0 min Final water level end of pumping (m/ft)	Draw Down Recovery Time (min) Water Level (min) Time (min) Static 8.14 12.30 1 9.70 1 11.13 2 0.12 2 10.47 3 10.68 3 10.15 4 1.00 4 9.90 5 11.79 5 9.73
Air percussion Industrial Other, specify Construction Record - Casing	Status of Well (m/fl) Water Supply To Replacement Well Test Hole Recharge Well Dewatering Well Observation and/or Monitoring Hole Alteration (Construction) Abandoned, Insufficient Supply	12-38 Inflowing give rate (Vinin / GPM) Recommended pump depth (m/ft) 51.81 Recommended pump rate (Vinin / GPM) 34.07 Well production (Vinin / GPM) Disinfected? Yes No	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Construction Record - Screen Outside Diameter (cmvin) Dia	To Cher, specify	Map of W Please provide a map below following	Fell Location instructions on the back.
Water Details Water found at Depth Kind of Water. Fresh Untested SQ (m/t) Gas Other Specify Water found at Depth King Water. Fresh Untested (m/ft) Gas Other Specify Water found at Depth King Other Specify Water found at Depth Kind of Waler: Fresh Untested (m/ft) Gas Other, specify Other, specify	From (anvin) 54,8 0 15.07		F1363 Brd
Well Contractor and Well Technicia Business Name of Well Contractor Arr ROUL Business Address (Street Number/Name) Province Province Postal Code Business E-mail Address	Well Contractor's Licence No.	at 1363 So Comments:	nth Beach
ONT KOA220 Bus. Telephone No. (inc. area code) Name of Well Technician (I Nell Technician's Licence No. Signature of Technician and/or Co T2/12240000000000000000000000000000000000	ast Name, First Name)	Well owner's information package delivered Yes No	24 Audit No. Z 80748

Ontario Ministry of the Environment

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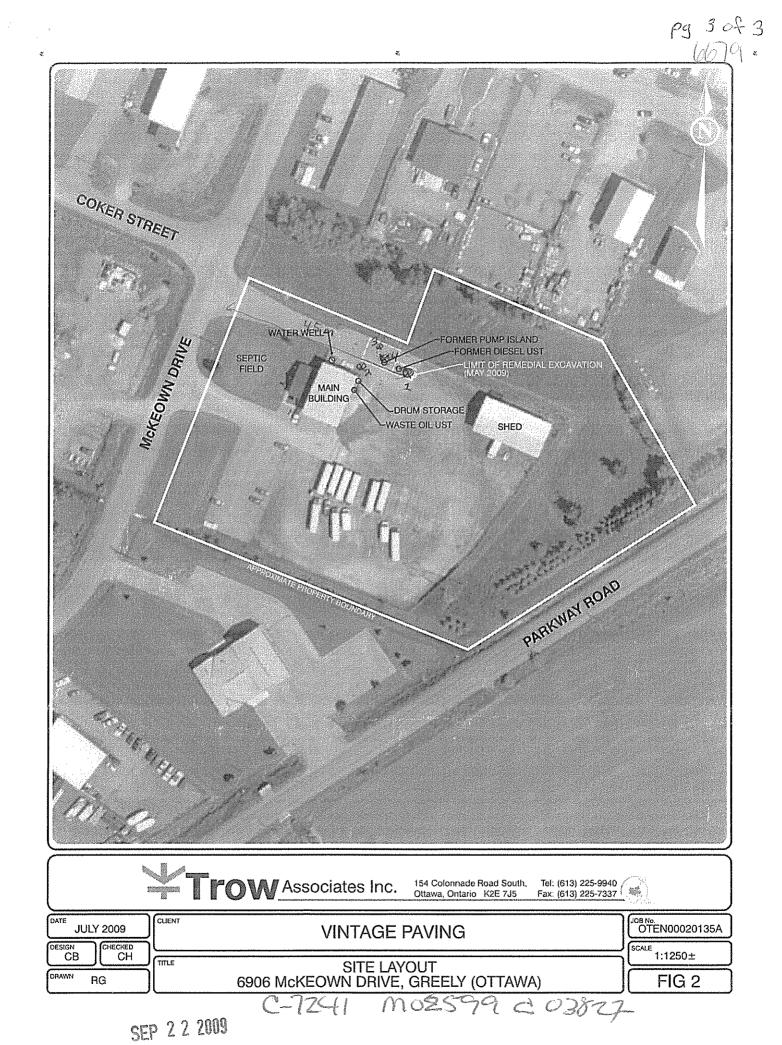
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County/D	<i>a</i>			•		Ci	ity/Towr					<u>.</u>	Province	Postal Code
UTM Coor		Zone Easti		Northing			S Unit M		Model		Mode of O	peration:	Ontario Undifferentiated	Averaged
where the second s			15060						Etr	ex	Differen	tiated, specify		
Overl General	a l'anna an anna an a	nd Bedroc Common	k Materials (s Other		1	<u>1 the b</u> neral			(Metres)	Depth	(Metres)	Hole	Details Diamete	er \
Colour		aterial	Materia		Desc	cription		From	То	From	То	SECONDENSION NOT DESCRIPTION	(Centimet	res)
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Gry	5	:17			wet		2	2,74	4,88					
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										Public	Annual	and the second s	Not used Dewatering	Other, specify
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			· . · ·										Construction	
		****								Cable	Tool (Convention	al)		
		99999999998888889999999999999999999999							· ·	Rotary	(Reverse)	Jetting	P Oth	er, specify
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											ement Well		oned, Poor Water (specify <u> </u>	
			Automotive					r.w.,		i i i i i i i i i i i i i i i i i i i			oned, other, specify	
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1444-028-1401-100		A. 102 MA 190 M	Construc	tion De	tails	1910-1851/183				1 1 1 1 2 2 1 2 1 2 1 2 1 1 2 1 2 1 2 1	Yes 🗍 N		FIATURAALAR WAARAALARAA	tres
Inside Dia (Centime		seel plastic	Material fibreglass, cor			Wa Thickr		Depth (From	Metres) To	Galvar	iized 🗂 S	teel Fibre		ete CPástic
5.20	3		A +	Ser-	·····	.396		Õ	1.83	Outside D	lameter (Cei	k	Skot No.	
	-	pro	- , , ,	reen	******	·····			4.88	6	03		10	
		•				*****		· V	1 00	000000000000000000000000000000000000000	und at Depti		f Water	
				A77A#77\			and before the second sec			Mator for	Metres			Sulphur 💮 Minerals
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1.5	4.88		nd	,						Cluster	nformation	(Please also i	ill out the additio	nal Cluster Well
<u></u>	4.00			******	A. S. S. S. A. S.	··				Informat	<i>tion for Wel</i> Ils in Cluster	l Construction	for each parcel	of land and cluster.) Number of Cluster Well
				A							Ч			Sheets Submitted
.										l otal vve	Its on this \Pr	roperty		
<u> </u>										Detailed I		http://www.com/com/com/com/com/com/com/com/com/com/	Well Chuster	arger than legal size
				·						(8:5"× 14	"). Sketches	are not allowe	d	
					· · · · · · · · · · · · · · · · · · ·					[Irm detailed ma	ip is provided as p	per Section 11.1 (3)
										th				
		Well Conti	ractor and W	ell Tech	nnician Infe	ormati	ion	dr. 19						
Business N	lame of W	/ell Contracto	or	1.0	<u></u>		Contract	or's Lice	nce No.	M				
Business A	MACA address (S	treet No (Na	me-number, N	$\frac{111}{R}$	L. Mu	nicipali	1×	-9	<u> </u>	Ĩ.				
H)(Province	471	WBY	Beach		eer	KU	Chr	Non	c /c	<u>í fic</u>	22	Ministry	Use Only	
rovince	V)	Postal Cod		ess ⊵-ma	ail Address					Audit No.	₩ 02	2599	Well Contractor No).
Sus.Telsph	$\sim 11 + 11$		Name of Well	1	•			,		Date Reco	P 222		Date of Inspection	(yyyymm/dd)
(JUD) Well Technik	cian's Licer	+BA	ature of Techn	Otre	Star -	Date	<u>こん</u> Submitt	<u>)</u> tęd (yyy	y/mm/dd)	OL. Remarks	1 4 4 6	.uu3		
311		9	$\exists >$				209/		<u> </u>					
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6679 Page _ 2 of _ 3___

Address of Well Location (Street Number/Name, RF	tion (Street Number/Name, RR) Lot Concession Township County/District/Municipality		icipality	upon request								
	શ								,		Signature of Technician/Contractor	Date (yyyy/mm/dd)
City/Town/Village Provi	1	istal Code		PS Unit Make	Model Etrex	1	de of Oper	_	differentiated	Averaged		
OreclyOnt	ario			cermin	Errex	Differ	rentiated, s	specify:]	
Well # UTM Coordinates	Full Depth of Hole (metres)	Hole Diameter (cm)	Method of Construction	Casing Mater	ial Casing Length (metres)	Screen In From	terval (metres)	Annular Space Sealant Used	Static Water Level (metres)	Abandonment Sealant Used	Comments	Date of Completion (yyyy/mm/dd)
2 1 8 45 5 04 2 50 1 1 8 3 7	4.88	10.92	Direct Push	PVC	1.83	1.83	4.88	Benseal				2009/08/31
3 184550515011843	4.88	10.92	Direct Push	PUC	1.83	1.83	4.88	Benseal				2009/08/3
4 1845505250111837	4.88	10.92	Direct Phoh	PUL	1.83	1.83	4.88	Benseal				2009/08/
							-					
Well Contractor and Well Technician In	formation	Bue	Add (5	<u></u>							Date 1st Well in Cluster Constructed Date Last	Well in Cluster Constructed
Business Name of Well Contractor Stratta SA Sam Dine	21	DUSI T	2-141		Name, RR) BEAUU	$\left(\left(\right) \right)$		Richm	adth	Province ON	Ministry Use Only	
Postal Code A C Business Telephone N	No. (inc. area o	ode)	Well Contractor	's Licence No. B	lüsiness E-mail /	Address						pected (yyyy/mm/dd)
Name of Well Technician (First Name, Last Name)	¥¥¥¥¥¥		Well Technician	s Licènce No. D 5 9 6	ate Submitted (v	yyy/mm/dd)	Signature <	e of Technician			Audit No. Remarks	07599
1991 (11/2006)	****	B	B, 1291		1 1	nistry's (Сору	Z	۷			s Printer for Ontario, 2006

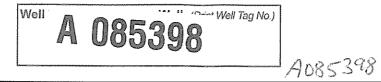


Ontario Ministry of the Environment

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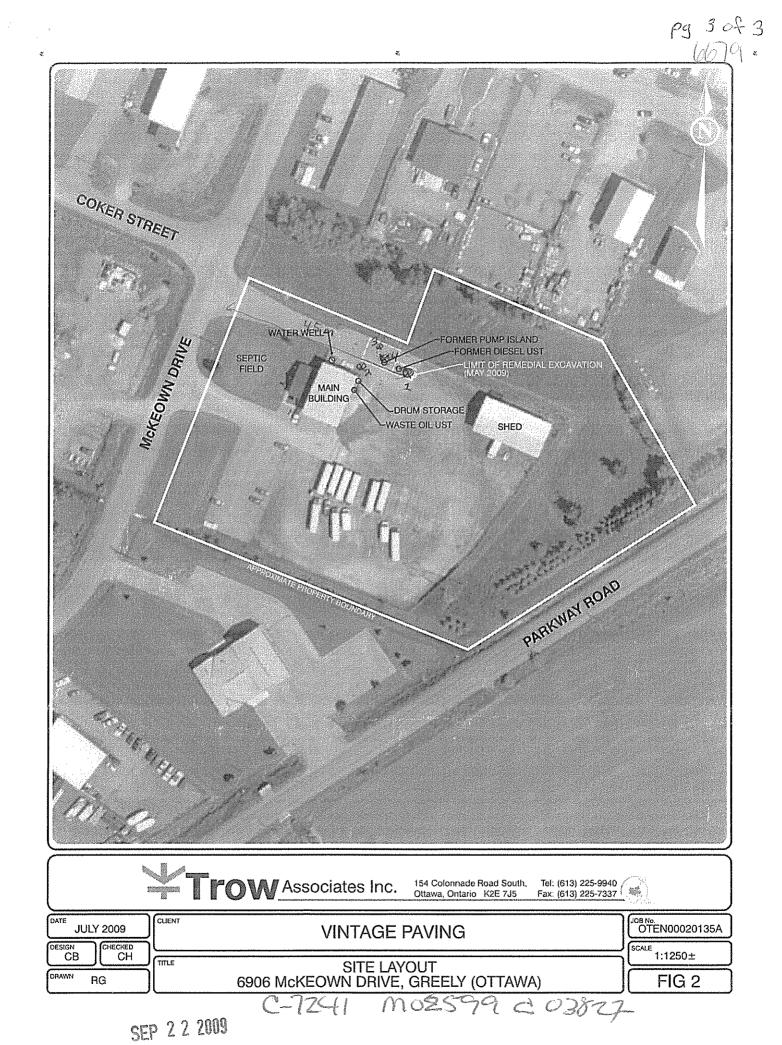
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<u> </u>										Detailed I		http://www.com/com/com/com/com/com/com/com/com/com/	Well Chuster	arger than legal size
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					· · · · · · · · · · · · · · · · · · ·					[Irm detailed ma	ip is provided as p	per Section 11.1 (3)
										th				
		Well Conti	ractor and W	ell Tecl	nnician Infe	ormati	ion	dr. 19						
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rovince	V)	Postal Cod		ess ⊵-ma	ail Address					Audit No.	₩ 02	2599	Well Contractor No).
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(JUD) Well Technik	cian's Licer	+BA	ature of Techn	Otre	Star -	Date	<u>こん</u> Submitt	<u>)</u> tęd (yyy	y/mm/dd)	OL. Remarks	1 4 4 6	.uu3		
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6679 Page _ 2 of _ 3___

Address of Well Location (Street Number/Name, RF	Lot	C	oncession	Township			Count	y/District/Mun	upon request			
	શ								,		Signature of Technician/Contractor	Date (yyyy/mm/dd)
City/Town/Village Prov	1	istal Code		PS Unit Make	Model Etrex	1	de of Oper	_	differentiated	Averaged		
OreclyOnt	ario			cermin	Errex	Differ	rentiated, s	specify:				
Well # UTM Coordinates	Full Depth of Hole (metres)	Hole Diameter (cm)	Method of Construction	Casing Mater	ial Casing Length (metres)	Screen In From	terval (metres)	Annular Space Sealant Used	Static Water Level (metres)	Abandonment Sealant Used	Comments	Date of Completion (yyyy/mm/dd)
2 1 8 45 504 2 5011 837	4.88	10.92	Direct Push	PVC	1.83	1.83	4.88	Benseal				2009/08/31
3 184550515011843	4.88	10.92	Direct Push	PUC	1.83	1.83	4.88	Benseul				2009/08/
4 1845505250111837	4.88	10.92	Direct Phah	PUL	1.83	1.83	4.88	Benseal				2009/08/
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Well Contractor and Well Technician In Business Name of Well Contractor	formation	Bugi	nono Addroso (E	Stract Number/	Nama DD)		Industation	14	. 1		Date 1st Well in Cluster Constructed Date Last	Nell in Cluster Constructed
Business Name of Well Contractor SHATA SA SANDINA	21		2-147 I		Name, RR) BEAUU	$((\phi$		Richm	adth	Province ON	Ministry Use Only	
Postal Code Business Telephone N	No. (inc. area o	ode) M	Well Contractor	's Licence No. B	lüsiness E-mail /	Address				<u> </u>		pected (yyyy/mm/dd)
Name of Well Technician (First Name, Last Name)		- 	Well Technician	is Licence No. D 5 9 6	ate Submitted (v	yyy/mm/dd)	Signature <	e of Technician			Audit No. Remarks	07597
1991 (11/2006)		B	B, 1291		1 1	nistry's (Сору	Z	4			Printer for Ontario, 2006

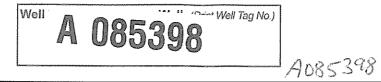


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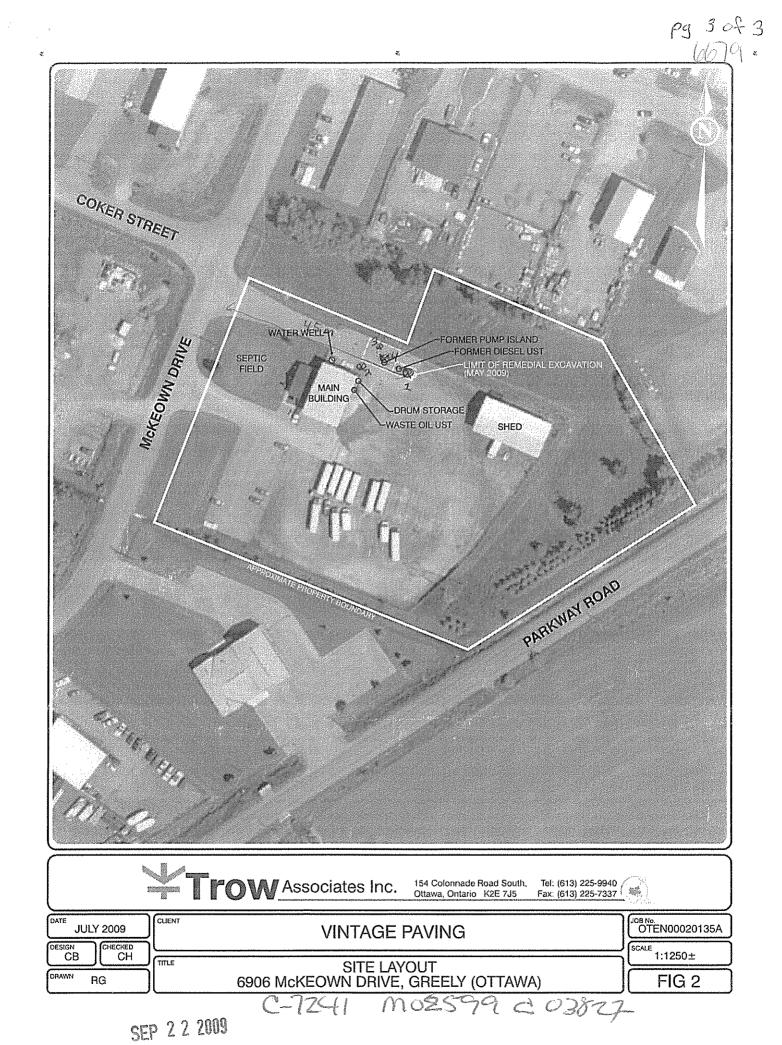
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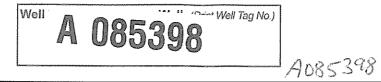


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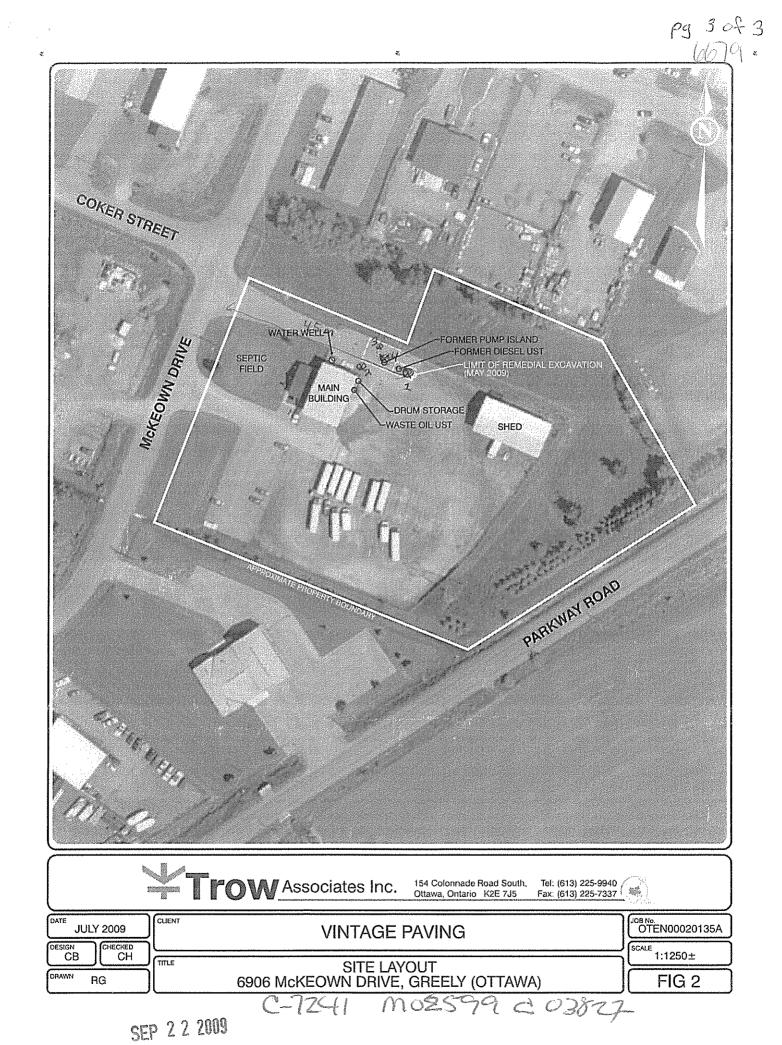
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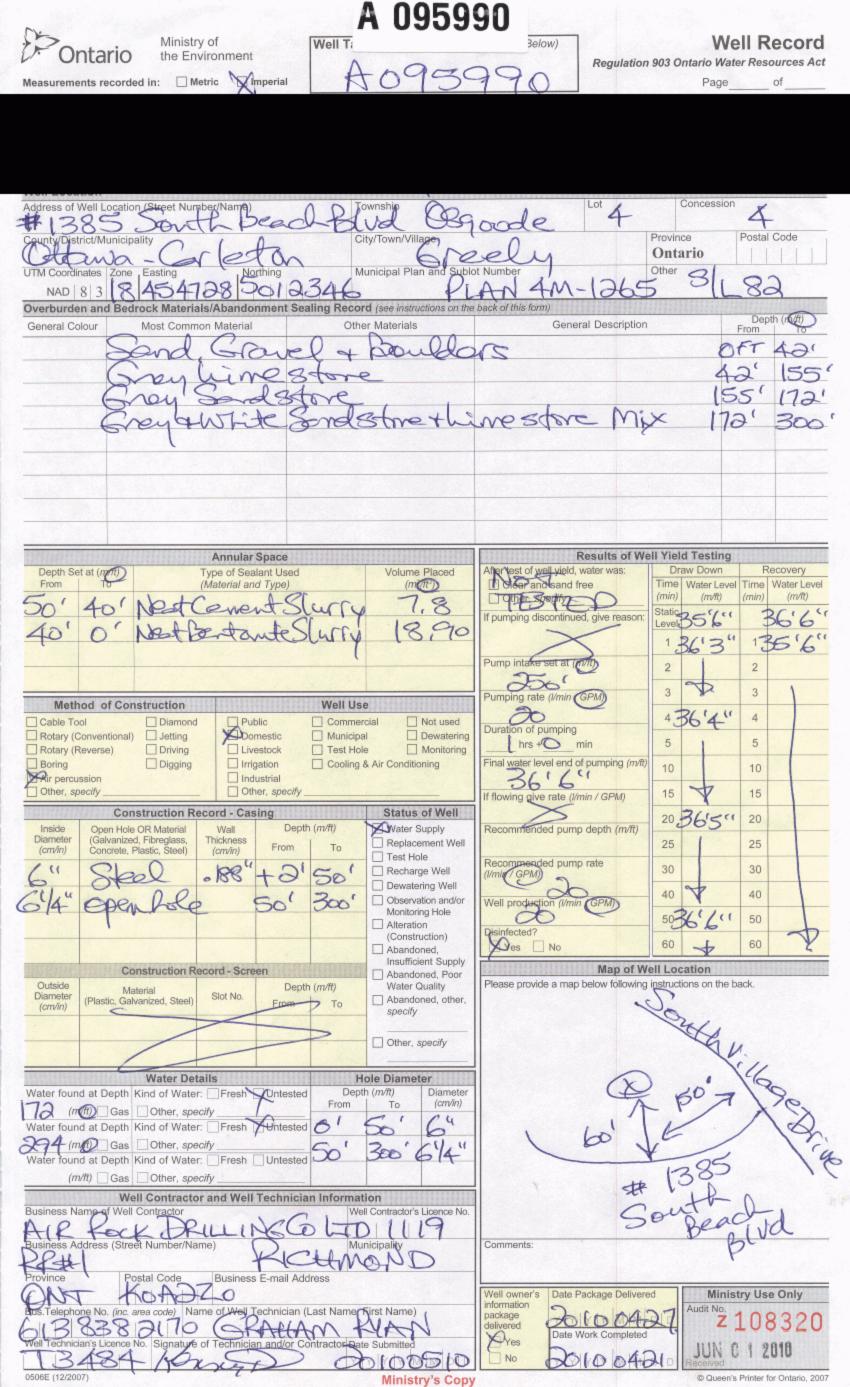


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Metric Imperial Well Owner's Information E-mail Address Well Constructed Last Name / Organization First Nan NE Province by Well Owner DPM E Postal Code Telephone No. (inc. area code) Mailing er/Name reely 4PDA5 (0) NO Well Location Concess Lot Address of Well Location (Street Number/Name ud 35000 e 363 Dut Dar ł 0 County/District/Municipality Postal Code Province City/Town/Village 91 Ontario vae 5 ZI Other S Municipal Plan and Sublot Numbe Zone Eastin 80 LAN 5012313 4m. 1265 1845464 NAD 8 3 Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on the back of this form) Depth (m(t) General Description Most Common Material Other Materials General Colour From 45 b Soulders BI stavel + 5/2 145 MOS 10 011 215 0 Sandsto 5' 48' 30 Sendsta AU 10 Annular Space **Results of Well Yield Testing** After test of well yield, water was: Recovery Type of Sealant Used (Material and Type) Volume Placed Draw Down Depth Set at (n(/ft)) If pumping discontinued, give reason: Time Water Level Time Water Level (min) (m/ft) (m/ft) (min) 1.8 ever 44 Mad lun Static 13" 2.54 Nest Berton 29.4 un 1.35'8" Pump intake set at (n(ft)) 2 2 40' 34 Pumping rate (Vmin GPM) 3 2 3 44' Well Use Method of Construction Duration of pumping 4 448' Not used Commercial Cable Tool Diamond Public Municipal Rotary (Conventional) Jetting Domestic Dewatering 5 5 50 hrs + min Test Hole Rotary (Reverse) Driving Livestock Monitoring Final water level end of pumping (m/R) Boring Digging Irrigation Cooling & Air Conditioning 10 104 52'1" 52'5" Air percussion Industrial Other, specify Other, specifi 15 15 If flowing give rate (Vmin / GPM) 0 **Construction Record - Casing** Status of Well 52'2" 20 20 Water Supply Inside Diameter Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel) Depth (m/ft) Wall Recommended pump depth (non) Recommendad Thickness Replacement Well 25 25 + From To (cm/in) (cm/in) Test Hole pump rate 2'4" 30 4 30 Recharge Well 188 12. (Vmin (GPM)) 54 20 20 Dewatering Well \$ 40 40 4 hil 54 301' Observation and/or Well production (Vmin CPM 251 Monitoring Hole n 50 5 50 Alteration Disinfected? (Construction) 60 60 Yes No Abandoned, Insufficient Supply Map of Well Location Construction Record - Screen Abandoned, Poor Please provide a map below following instructions on the back. Water Quality Outside Depth (m/ft) Material Slot No. Diameter Abandoned, other, (Plastic, Galvanized, Steel) (cm/in) specify South Wilkge Drive Other, specify 210 Hole Diameter Water Details Water found at Depth Kind of Water: Fresh Depth (m/ft) Diamete Untested From To (cm/in) 46 (mage Gas Other, specify #136 11 301 Water found at Depth Kind of Water: Fresh Dhtested South 95 (n Gas Other, specify Water found at Depth Kind of Water: Fresh Untested Beach, Blvd, (m/ft) Gas Other, specify Well Contractor and Well Technician Information ss Name of Well Contracto Well Contractor's Licence No. Municipality DRI Kec K Address (Street Number/Nan Comments: CHMON 4PI D Postal Code Business E-mail Address 0A220 Ministry Use Only Well owner's Date Package Delivered information ell Technician (Last Name, First Name) Audit No package 010040 z108300 RAHAM YAN 70 Date Work Compl Yes 6190315 20100510 No 4 Guten's Printer for Ohtano, 2007 0506E (12/2007 Ministry's Copy



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Well Record

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Well Location Township Province Postal Con Address of Well Location (Street Number/Name) Osgoode **1344 Barfield Street** Postal Code County/District/Municipality City/Town/Village Ontario Greely Initial Plan and Sublot Number Ottawa Carleton Other Northing 5011766 NAD 8 3 18 454720 <u>4M-351</u> <u>PT BLK 5 RP 4R054 a</u>7 Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on the back of this form) Depth (m) Other Materials **General Description** General Colour Most Common Material From ٥' Silty Sand 26 Sand, Gravel + Boublers 26 54 Grey + Brown 54 himestone 120 **Results of Well Yield Testing** Annular Space Type of Sealant Used After test of well vield, water was: Draw Down Recovery Depth Set at (m/st) Volume Placed Time (m³/ft³) Clear and sand free From То (Material and Type) Water Level Time WaterLevel Other, specify Not tested (min) (11/11) (min) (kvit) 7.8 60 (50 ' Neat cement Static If pumping discontinued, give reason a 41.7 50 7 07 Leve 25.2 Bentonite slumy 12.8 1 23.5 1 Pump intake set at (ma) 2 2 15.5 17.2 80 3 3 Pumping rate (I/min / PMD 20.2 10.3 Well Use Method of Construction 20 4 4 22.56.7 Cable Tool Diamond Public Commercial Not used Duration of pumping Domestic 🗌 Municipal Dewatering Rotary (Conventional) Jetting 5 5 1_hrs+__0_min 24 5.1 Driving Monitoring Rotary (Reverse) Livestock Test Hole Final water level end of pumping (nvfl) Boring Digging Irrigation Cooling & Air Conditioning 10 10 29.7 4 41.7 ** Air percussion 🗌 Industrial Other, specify 15 15 32.6 4 If flowing give rate (I/min / GPM) Construction Record - Casing Status of Well 20 20 35 4 Water Supply Depth (mft) Recommended pump depth (m(ii)) Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel) Inside Wall Diamete (cm/in) Thickness (cm/n) Replacement Well 25 25 80' 36.8 â From То Test Hole Reconsended pump rate 30 30 Recharge Well 38.2 4 188 60 6 +2 Steel Dewatering Well 20 40 40 Observation and/or 40.2 4 60′ 515/16 **Open Hole** 120 Well production (I/min (GPM) Monitoring Hole 50 50 20 40.2 4 Alteration Disinfected Yes No (Construction) 60 60 41.7 4 Abandoned. Insufficient Supply Map of Well Location **Construction Record - Screen** Abandoned, Poor Water Quality Please provide a map below following instructions on the back. Outside Depth (m/ft) Material Diamete Slot No Abandoned, other, (Plastic, Galvanized, Steel) From То (cm/in) specify Other, specify # 1344 Barfield Street Hole Diameter Water Details Depth (m/ft) Diameter Water found at Depth Kind of Water: Sresh Suntested (cm/in) From To 65 (m/ft) Gas Other, specify Water found at Depth Kind of Water: Fresh Vuntested 60 0 8 (m/ft) Gas Other, specify 120 51516 Water found at Depth Kind of Water: Fresh XUntested 60 (m/ft) Gas Other, specify Well Contractor and Well Technician Information mckeown Dr **Business Name of Well Contractor** Well Contractor's Licence No 1119 Air Rock Drilling Co. Ltd Business Address (Street Number/Name) 6659 Franktown Road, RR#1 lunicipality Richmond Comments: Postal Code Province Business E-mail Address Ministry Use Only ON KOA 2ZO air-rock@sympatico.ca Well owner's Date Package Delivered information Audit No Bus.Telephone No. (inc. area code) Name of Well Technician (Last Name, First Name) package delivered 12010 M 11 17 z119920Graham, Ryan Date Work Completed Yes **2010 11** łø DEC 2 9 2010 29 T3484 6 Queen's Printer for Ontario, 2007 ŇΝο

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Rotary (F			Driving		restock	🔲 Test	Hole	•	Monitoring		<u>o</u> min	5	21.4	5	8.3
Boring Air percu	ission		Digging	a transmission	gation Iustrial	Cooli	ng 8	Air Conditio	ning	1 / 7	el end of pumping (m/ii)	10	21.4	10	8.3
Other, sp	pecify				her, spec	ify				22.1 If flowing give	rațe (I/min / GPM)	15	21.5	15	8.3
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Well Record

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Well Location Address of Well Location (Street Number/Name) Boullybud Lot Sub 10175 Concession 1333 Suth Blach County/District/Municipality 4 4 tawa Postal Code Province KOA 2WO Ontario Other UTM Coordinates Zone Easting Northing The RPlan NAD 8 3 / B 4 5 4 5 6 1 5 6 1 2 1 6 4 8 Pan 44 1265 Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on the back of this form) ЧM Depth (m/it) General Description General Colour Most Common Material Other Materials From So-f7 \leq 0 3 Drown au 12.5 Sł 3.1 Pac Keck OULSE 2.5 14.6 25 stone **Results of Well Yield Testing** Annular Space After test of well yield, water was: Draw Down Recovery Type of Sealant Used Volume Placed Depth Set at (m/ft) Clear and sand free (m³/ft³) Time Water Level From То (Material and Type) Water Level Time (min) (m/ii) (min) (m∕īt) Other, specify 7 Baa 16.6 ciment grout Static If pumping discontinued, give reason: 24 3.32 Leve 1 1 25 3-26 Pump intake set at (m/ft) 2 2 27 3,2 <u>20</u> 3 3 Pumping rate (I/min / GPM) 22 Well Use Method of Construction 68 Duration of pumping 4 4 28 3. Cable Tool Diamond oliduc 📋 Commercial Not used Jetting Domestic 🗌 Municipal Dewatering Rotary (Conventional) 5 5 2.29 hrs + min Test Hole Rotary (Reverse) Driving Livestock Monitoring Final water level end of pumping (m/ft) 🗌 Boring Digging Irrigation 🔲 Cooling & Air Conditioning 3.30 10 10 .32 🔲 Industrial WOther, specify Air Rotary Air percussion 3.30 Other, specify 15 15 If flowing give rate (I/min / GPM) **Construction Record - Casing** Status of Well 3,31 20 20 Water Supply Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel) Wall Thicknes Depth (m/ft) Recommended pump depth (m/ft) Inside Diamete *(cm/in)* 3] Replacement Well 25 3. 25 20 From То (cm/in) Test Hole Recommended pump rate (//min / GPM) B Well production (//min / GPM) 30 32 30 3 16.6 48 Recharge Well 4. 15,55 Stee Dewatering Well 40 40 3,32 Observation and/or 16. b Open 25.6 <u>15.55</u> Hole Monitoring Hole 3.32 50 50 Alteration Disinfected? (Construction) 60 く 3 60 Yes 🗌 No Abandoned. Insufficient Supply Map of Well Location Construction Record - Screen Abandoned, Poor Water Quality Please provide a map below following instructions on the back. NA Outside Depth (m/ft) Material Diamete (cm/in) Slot No Abandoned, other, (Plastic Gatvanized Steel) From To specify Ĉ Other, specify Hole Diameter Water Details Depth (m/ft) Diameter Water found at Depth Kind of Water: Fresh Wintested From (cm/in) Τc 24 (m/ft) Gas Other, specify found at Depth Kind of Water: Fresh Untested Wate (m/ft) Gas Other, specify Ы. 21.23 Water found at Depth Kind of Water: Fresh Untested wel 9 6.6 (m/ft) Gas Other, specify 15.55 Well Contractor and Well Technician Information Business Name of Well Contract Well Contractor's Licence No. 6) 141 2501 الى DULGO Xilling Comments: Nation 10nte Business E-mail Address NIA Ministry Use Only Well owner's Date Package Delivered DABC information Audit No of Well Technician (Last Name, First Name) package delivered z127020 ichael 1cl Date Work Completed Yes nd/or Contracto Submitted JAN 2 1 2011 **G**No 20101223 20101223

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Well Tag No. (Place Sticker and/or Print Below) Well Record Ministry of Ontario the Environment Regulation 903 Ontario Water Resources Act Metric Page of Measurements recorded in: Imperial Well Owner's Information THE Stand Address Last Name / Organization First Name Vell Constructed GORDON 1 N by Well Owner E Mailing Address (Street Number/Name) Province Postal Code e No. (inç. area code) K4M A 1 Well Location Address of Well Location (Street Number/Name) Township Concessio way ood -000 County/District/Municipality City/Town/Village Province Postal Code tawa Ontario 551 ee DV NAD 8 3 84552 Other UTM Northing Municipal Plan and Sublot Number 501 4 163 B Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on the back of this form) Depth (met) Most Common Material Other Materials General Colour General Description From CL 1 Drilled donnerd 0 13 Abon Tag A004862 - Audit 204877- Feb 17, 2004 WARS-Annular Space **Results of Well Yield Testing** Depth Set at (m/A After test of well yield, water was: Draw Down Recovery Type of Sealant Used Volume Placed (Material and Type) (m^3/ft^3) Clear and sand free Time Water Level То Time Water Level Other, specify (min) (m/ft) (m/ft) (min) 0 Plug 6 0 Static If pumping discontinued, give reason: 1 Pi(10 Level 0 1 1 Pump intake set at (m/ft) 2 2 3 3 Pumping rate (Vmin / GPM) Method of Construction Well Use 4 4 Cable Tool Diamond Public Commercial Not used Duration of pump Domestic Rotary (Conventional) Jetting Municipal Dewatering 5 5 hrs + Monitoring Rotary (Reverse) Driving Test Hole Cooling & Air Conditioning Bong Final water level end of pumping (m/ft) Digging Irrigation 10 10 Air percussion Industrial Other, specify Other. specify 15 15 If flowing give rate (I/min / GRM) **Construction Record - Casing** Status of Well 20 20 Depth (m/lt) Oven Hole OR Material Water Supply Inside Wall Recommended pump depth (m/k) Thicknes (cm/in) e, Plastic, Steel) Diamete Replacement Well 25 25 (cm/in) From To Conci Test Hole Recommended pump rate (Vmin / GPM) 30 Recharge Well 30 Dewatering Well 40 40 Observation and/or Well production (Vmin / GPM) Monitoring Hole 50 50 Alteration ed? (Construction) 60 60 Abandoned, Ye No Insufficient Supply Construction Record - Screen Map of Well Location Abandoned, Poor Water Quality Outside Please provide a map below following instructions on the back Depth (m/ft) Material (Plastic, Galvanized, Steel) Slo Diameter Abandoned, other, From To (cm/in) Enstructio (Mew Sund NON Water Details **Hole Diameter** Diameter (cm/in) Depth (m/ft) Water found at Depth Kind of Water: Fresh Untested To (m/ft) Gas Other, specify · SKW Water found at Depth Kind of Water: Fresh Untested (m/ft) Gas Other, specify Water found at Depth Kind of Water: Fresh Untested (m/ft) Gas Other, specify Well Contractor and Well Technician Information Well Contractor's Licence No. usiness Name of Well Contractor ACK DK (Lu (Street Number/Name) P TD 111 ING 0 s Address (Str inicipality Comments 1#1 1CHMOND W#5-A004862 Business E-m Postal Code Address Ministry Use Only (bA) 0 Well owner's Package Delivered information Technician (Last Name, First Name) Audit No. package delivered YYYMMD 9939 soulniers Ke 70 Z Date Work Completed and/or Co Yes echnician 20110118 20110131 XNO 2007/13 0 00 Ministry's Copy

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	anktown Road, RR		Richmond
Province	Postal Code	Business E-mail Address	
ON	K0A 220	air-rock@s	mpatico.ca
Bus.Telephone	No. (inc. area code) Nam	e of Well Technician (Last Na	ame, First Name)
6138382		Hogan, Dan	
Well Technician's	Licence No. Signature o	f Technician and/or Contracto	Date Submitted
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Ontario	r 1
Measurements recorded	in:

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Tag#: A128050

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int Below)

Well Record

Regulation 903 Ontario Water Resources Act ___of___ Page_

	ocation (Street Numbe			Township Osaoode	Lot 4	Conces	sion			
County/District/M		<u> </u>		City/Town/Village	in the second	Province Ontario	Postal Code			
Ottawa-(Carleton Zone , Easting	, North	ning	Greely Municipal Pan and Sul	lot Number	Other				
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Depth Set at (m	🕖 Ту	pe of Seala	nt Used	Volume Placed	After test of well yield, water was:	Draw Dow	n Recovery			
From T 48 / 38	 Neat ceme 		, yp c)	9.36	Other, specify Not teste	(min) (m/f	t) (min) (m/ft)			
38 ' 0'	Bentonite s		n an	16.8	If pumping discontinued, give reaso	n. Level 3				
			n an an Anna a Anna an Anna an			1 38:				
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Method o	of Construction		Well	Use	Pumping rate (I/min / PM)	3 45	~			
Cable Tool	Diamond	Public	c 🗌 Con	nmercial 🔲 Not used	Duration of pumping	4 48;				
Rotary (Conver					brst min	5 50.4	• 5 <u>33.8</u>			
Boring				ling & Air Conditioning	Final water level end of pumping (m	10 57-	7 10 31.			
Air percussion		Indus	r, specify		If flowing give rate (I/min / GPM)	15 62,0	A 15			
	Construction Reco			Status of Well		20 65,	२ 20			
Diameter (Gal		Wall hickness	Depth (<i>m/ft</i>) From To	Water Supply	Recommended pump depth (m/k	25 66,				
		(cm/in)	+2' 48'	Test Hole	Recommended pump rate	30 68.				
6 ^{(/} Stee				Dewatering Well	20	40 71.0				
6 ¹¹ Ope	n Hole		48 / 181 /	wonitoning Hole	Well production (I/min / A	50 73.				
				Alteration (Construction)	Disinfected?	60 74.				
(1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.				Abandoned, Insufficient Supply		Well Location				
Outside	Construction Reco		n Depth (<i>m/ft</i>)	Abandoned, Poor- Water Quality	Please provide a map below follow		the back.			
Diameter (cm/in) (Plas	tic, Galvanized, Steel)	Slot No.	From To	Abandoned, other specify			10			
	,	\triangleleft	_		Sout of Build		Xr			
			>	Other, specify	6/		Sou			
	Water Detail	and the second se		Hole Diameter			Ale ger			
<u>^</u>	Depth Kind of Water:	X	Untested Fro	Depth (<i>m/ft</i>) Diamete m To (<i>cm/in</i>)	$ / \rangle$		15,109-5			
Water found at D	Gas Gotter, specific Depth Kind of Water:		Untested	0 ⁽ 181 ['] 6 ^{''}		X	N' A'			
	Gas Other, specif				the last		~~~			
	Gas Other, specif		JUNICOLOU		6 7	1				
	Well Contractor		echnician Info			135'				
Business Name o				Well Contractor's Licence N		4 10-				
Business Address	illing Co. Ltd. s (Street Number/Name	э)		Municipality Richmond	Comments:					
	Postal Code		E-mail Address	IXIGHHUHU	3/4 HP - 15 GPM SET	@ 100.				
Province ON	MOA OTO		air-rock@sym	patico.ca	Well owner's Date Package Deliv	And a second sec	linistry Use Only			
Bus.Telephone No	o. (inc. area code) Nam		chnician (Last Na	me, First Name)	package		[∞] × 144600			
6138382170 Well Technician's L	icence No. Signature of	Purcell, S	Shannon and/or Contracto	r Date Submitted	Date Work Comple	. <u>.</u> .	. 8 0049			
T2122	Ko	ng	\sum	YYYYMMD		MPD D Rell				
0506E (2007/12)	© Queen's Printer for Ontario	n 2007		Ministry's Co						

		vironment	Imperial	Well Ta	g No. (Place Sticker an A119641		on 903 C	We Intario Wat Page_	er Res	of
Well Owner's	s Information									
. First Name		ast Name /			· ·····	E-mail Address				Constructed
Mailing Address	(Street Number/Na		illati		ing Inc. Municipality	Province Postal Coc	e	Telephone N	*	II Owner
P.O. Box		nej			Kanata	Ontario K2K 1X	1	613 839		
Well Location				I						
	Location (Street Nu	mber/Name)	<u></u>	٦	Township	Lot		Concession		
6786 Hira					Osgoode City/Town/Village	5	Provin	4	Postal	Code
County/District/N Ottawa Ca				, i	Greely		Ont			
UTM Coordinates		I No	orthing	N	Municipal Plan and Sublo	ot Number	Other		<u> </u>	
	1 8 45462		5011602	<u> </u>					104-menutori el 1016 e	
			100000000000000000000000000000000000000		ord (see instructions on the				Dep	th (<i>m/ft</i>)
General Colour	Most Comr	non Material		Oth	ner Materials	General Descriptio	M1		From	To
Brown	Clay	<i>.</i>				Packed			0	2.43
Grey	Clay	r				Sticky			2.43	4.87
Grey	Sand	L		Bou10	lers	Loose			4.87	17.67
Grey		estone			and the second se			1	7.67	29.86
	LILING	Deone		2	R,					
	-									
	<i>(</i> 0)	Annular	STORE		Values Disead	Results of V After test of well yield, water was:		d Testing aw Down	R	ecovery
Depth Set at (r From	n/ft) To	Type of Sea (Material an			Volume Placed (m³/ft³)	I Clear and sand free	Time	Water Level		Water Level
19.50	0 Grouted	l Benton	nite Slu	irrv	.92m ³	Other, specify	(min) Static	(<i>m/ft</i>)	(min)	(m/ft)
19.30	0 010uceu	Dencon	ITC DIG	<u></u>	• > 2.11	If pumping discontinued, give reasor	Level	1.73		
							1	2.74	1	4.81
						Pump intake set at (m/ft)	2	2.70	2	3.11
						22.85	3			-
Method of	of Construction			Well Us	30	Pumping rate (I/min / GPM) 45.5		4.25		2.23
Cable Tool		. III		Comme	= 1	Duration of pumping	4	4.62	4	1.90
Rotary (Convie Rotary (Revers	Nuidinal) Usetting			Municip			5	4.88	5	1.83
Boring	Digging	🗌 Irrig	3	Cooling	& Air Conditioning	Final water level end of pumping (m/	7) 10	5.49	10	1.81
Other, specify		Ind	lustrial her, <i>specify</i>			6.31 If flowing give rate (I/min / GPM)	15	5.68	15	
	Construction R	ecord - Car	sina		Status of Well				20	
	en Hole OR Material	Wall	Depth	(<i>m/ft</i>)	X Water Supply	Recommended pump depth (m/ft)	20	5.78	20	
	Ivanized, Fibreglass, ncrete, Plastic, Steel)	Thickness (cm/in)	From	То	Replacement Well Test Hole	22.85	25		25	
15.06	Steel		1					5.82	25	· ·
	DLEET	1 <u>48</u>	+.45	19.50) 🗌 Recharge Well	Recommended pump rate (I/min / GPM)	30	5.82	30	۰
15.86		.48	+.45	19.50	Dewatering Well	(I/min / GPM) 45 • 5		5.85		
13.00		.48	+.45	19.50	Dewatering Well Dewatering Well Observation and/or Monitoring Hole	(I/min / GPM)	30	5.85 5.88	30 40	· · · · ·
00.01		.48	+.45	19.50	Dewatering Well Observation and/or Monitoring Hole Alteration	(<i>l/min / GPM</i>) 45.5 Well production (<i>l/min / GPM</i>) Disinfected?	30 40 50	5.85 5.88 5.92	30 40 50	
00.01		.48	+.45	19.50	Dewatering Well Observation and/or Monitoring Hole Alteration (Construction) Abandoned,	(<i>l/min / GPM</i>) 45 . 5 Well production (<i>l/min / GPM</i>)	30	5.85 5.88	30 40	
	Construction R			19.50	Dewatering Well Observation and/or Monitoring Hole Alteration (Construction)	(<i>l/min / GPM</i>) 45.5 Well production (<i>l/min / GPM</i>) Disinfected? ∑ Yes □ No Map of V	30 40 50 60 Well Loc	5.85 5.88 5.92 5.95	30 40 50 60	
Outside	Material		aen Depth	(<i>m/ft</i>)	 Dewatering Well Observation and/or Monitoring Hole Alteration (Construction) Abandoned, Insufficient Supply Abandoned, Poor Water Quality 	(<i>l/min / GPM</i>) 45 . 5 Well production (<i>l/min / GPM</i>) Disinfected? ∑ Yes □ No	30 40 50 60 Well Loc	5.85 5.88 5.92 5.95	30 40 50 60	
Outside		ecord - Scre	ien		Dewatering Well Observation and/or Monitoring Hole Alteration (Construction) Abandoned, Insufficient Supply Abandoned, Poor	(<i>l/min / GPM</i>) 45.5 Well production (<i>l/min / GPM</i>) Disinfected? ∑ Yes □ No Map of V	30 40 50 60 Well Loc	5.85 5.88 5.92 5.95	30 40 50 60	
Outside Diameter (plac	Material	ecord - Scre	aen Depth	(<i>m/ft</i>)	 Dewatering Well Observation and/or Monitoring Hole Alteration (Construction) Abandoned, Insufficient Supply Abandoned, Poor Water Quality Abandoned, other, specify 	(<i>l/min / GPM</i>) 45.5 Well production (<i>l/min / GPM</i>) Disinfected? ∑ Yes □ No Map of V	30 40 50 60 Well Loc	5.85 5.88 5.92 5.95	30 40 50 60	
Outside Diameter (plac	Material	ecord - Scre	aen Depth	(<i>m/ft</i>)	 Dewatering Well Observation and/or Monitoring Hole Alteration (Construction) Abandoned, Insufficient Supply Abandoned, Poor Water Quality Abandoned, other, 	(<i>l/min / GPM</i>) 45.5 Well production (<i>l/min / GPM</i>) Disinfected? X Yes No Map of N Please provide a map below followir	30 40 50 60 Vell Loo g instruct	5.85 5.88 5.92 5.95 cation ions on the b	30 40 50 60	
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Outside Diameter (<i>cm/in</i>) (Plas Water found at I 21.33 (<i>m/ft</i>)	Material stic, Galvanized, Steel) Water De Depth Kind of Wate Gas Other, spe	Slot No.	Depth From	(<i>m/ft</i>) To P Dep From	Dewatering Well Observation and/or Monitoring Hole Alteration (Construction) Abandoned, Insufficient Supply Abandoned, Poor Water Quality Abandoned, other, specify Other, specify	(<i>l/min / GPM</i>) 45.5 Well production (<i>l/min / GPM</i>) Disinfected? X Yes No Map of N Please provide a map below followir	30 40 50 60 Vell Loo g instruct	5.85 5.88 5.92 5.95 cation ions on the b	30 40 50 60	
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	/linistry of he Environment	Tag#	: A12792	25 int Below)	Regulation	n 903 Ontario		Record
Measurements recorded in:	Metric Metric	A12/	920			Pa	ige	of
Well Owner's Information	on (*							
First Name	Last Name / Organizatio		5. <i>C</i> 2	E-mail Address				l Constructed Vell Owner
Mailing Address (Street Numb		Icrete Finishir Municipal		Province	Postal Code	Telepho	-	c. area code)
6789 Sunset Blvc		Gree	ely	ON	K4P 1	M6		
Well Location								
Address of Well Location (Stre 6828 McKeown E	,	Township	oode		Lot	Conces	sion	
County/District/Municipality	лис	City/Town			116-7	Province	Post	al Code
Ottawa-Carleton		Gree	Plan and Sublot			Ontario		
UTM Coordinates Zone Easti			0	t Number		Other		
NAD 8 3 18 45 Overburden and Bedrock M	4766 501161				<u>,</u>	Block 6		
	Common Material	Other Mater	1		al Description		De	epth (<i>m(ft</i>)
	Sand & Gravel	Q.	Boulders				0	57'
Grey	1 :						57 '	119
	Limestone	en en franke i sjoer en een een een een een een een een ee		 The second se Second second sec	- 1-1		119	123
Grey							123	140
Grey Grey Grey Grey Grey Grey Grey Grey	Limestone a			e di Strenovici di Strenovi Strenovici di Strenovici di S	e de la contra de la La contra de la contr	a se se propositor e construire. A construire de la constru	123	140
happan.		$/ \rightarrow 0$	$\left(\right)$	AB		~ Fr	1997	-**
MAGKAVEL	-SEAM-	KEEP	TUINH	r ribere				<u></u>
	Annular Space		<u> </u>	R After test of well yield, w		Draw Dow	and the second se	Recovery
Depth Set at (<i>m/fb)</i> From To	Type of Sealant Used (Material and Type)	Volu	ume Placed	Clear and sand fro	ee		evel Time	
64 ' 54' Nea	t cement). 9	Other, specify		(min) (m/f	· · · ·	
54 (0 (Ben	tonite slurry	33	3.6	If pumping discontinued	d, give reason:	Static Level 10.		17.9″
		an a		\sim	ana dalahiri	1 12.	1	11.8
				Pump intake set at (m	Ð	2 12.	1 2	10.4
				100 Pumping rate (I/min / G	<u>2010</u>	3 12.	7 3	10.4
Method of Construct		Well Use		20		4 13.		10.4
Cable Tool Di	amond Dublic	Commercial	Not used Dewatering	Duration of pumping			94132947 (2004), A.	
Rotary (Reverse)	iving Livestock	Test Hole	Monitoring	<u>1 hrs + 0</u> m		5 13.	3 5	10.4
Boring Di	gging Irrigation	Cooling & Air Con	ditioning	Final water level end of	pumping (m/n)	10 14.0	10	10.4
Other, specify	Other, specify			If flowing give rate (I/m	in / GPM)	15 14.1	3	10.4
	ion Record - Casing		us of Well	×	-	20 15	7 20	10.4
Inside Open Hole OR Mat Diameter (Galvanized, Fibreg	lass, Thickness		er Supply lacement Well	Recommended pump	depth (n(At)	25 18.		10.4
(cm/ib) Concrete, Plastic, Š	iteel) (cm/(0) From		t Hole	100 Recommended pump				
61/4." Steel	.188 // +2	104 =	harge Well /atering Well	(I/min / GPM) 20		30 16.1	30	10.4
$\leq \pi/\beta''$ Open Hole	64 (140′ 🗍 Obs	ervation and/or	Well production (I/min)	(GEM)	40 17	• 40	10.4
		Alte	11	20 * Disjnfected?	1	50 17,	4 50	10.4
			nstruction) ndoned.			60 17.	60	10.4
Construct	tion Record - Screen	이 가지 않은 것이 있는 것이 집중 것	fficient Supply ndoned, Poor		Map of We	ell Location		
Outside Material	Slot No. Dept	h (<i>m/ft)</i> Wat	er Quality	Please provide a map b				1
(Plastic, Galvanized,	Steel) Slot No. From	To Data Spec	ndoned, other,		0	Da M	CKE	DWN
					#680	+0 M	VÉ	
		Othe	er, specify	1	71	DEI	8	
Wate	er Details	Hole Diar	neter		51	151		
Water found at Depth Kind of	Water: Fresh Untested		Diameter (cm/n)		7	k (S		
119 (m 🕀 🗌 Gas 🗌 Othe			1 03/11		G	\mathbf{c}		
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Water found at Depth Kind of		64 140	57/8					
(m/ft) Gas Othe	er, specify	<u> </u>		IV		DA	N	
1155 Charles the provide an intervention of the other states of the stat	ractor and Well Technicia			DAPK	WAY	POA	مسله	
Business Name of Well Contrac Air Rock Drilling Co. L		Well Contract	or's Licence No.	I rla-c				
Business Address (Street Numb 6659 Franktown Road,	per/Name)	Municipality		Comments:				<u></u>
		Richmor	nd	3/4 HP - 15 GP	M - SET A	T 100 FEE	T	
Province Postal Co ON KOA 2		lress @sympatico.ca		Well owner's Date Pa	ckage Delivered		nistry Us	e Only
Bus.Telephone No. (inc. area code				information		Audit No		
	Carbona Dime		· · · · ·	delivered	Completed	28일 :	z14,	4877
Well Technician's Licence No. Sign	nature of Technician and/or Co	ontractor Date Submitte		Yes I				2013
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the Environment	W	Tag#: A1352	oo rint Below)	Demotetier		Nell F	
Measurements recorded in: Metric Mimpe	erial	A135268		Regulation	903 Ontario Pa		of
Well Owner's Information				1			
First Name / Orga	anization		E-mail Address			U Well	Constructed
Mailing Address (Street Number/Name)	63 Ontario	Ltd Municipality	Province	Postal Code	Telephor		ell Owner
			ON	K2.1.3X		1e NO. (<i>Inc</i> .	area code)
146 Tartan Drive		Ottawa		KZJ 3A			
Address of Well Location (Street Number/Name)		Township		Lot 21	Conces	sion	
1358 Coker Street		Osgoode City/Town/Village		FLL	Province	4- Posta	l Code
					Ontonio	1 03(a	
JTM Coordinates Carleton	ng	Municipal Plan and Subic 4M-351	t Number 7 Par	1 26.27	Othe 28	í	
NAD 8 3 18 454958 50	11925	-4M-351 RF4-F	(stadolla pasa stabili	
Overburden and Bedrock Materials/Abandonme General Colour Most Common Material		ord (see instructions on the ther Materials		ral Description			oth (mf#t)
	~					From	
Sand & Gr		Boulders				0	45
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Grey & White Sandstone	mix		an a	ana ya santata da Gina ya santata da	an an An Anna Anna Anna Anna Anna Anna A	154	182
Grey & White Sandstone	nix			1940 yang terkengan pang		182 1	200
Annular Spa			F	Results of We	II Yield Testi	na	
Depth Set at (neff) Type of Sealant	Used	Volume Placed	After test of well yield, w	water was:	Draw Dowr	n R	ecovery
From To (Material and Ty		(m C E)	Clear and sand fr	ee	Time Water Lo (min) (m/ft)		Water Leve (m/ft)
2 42 Neat cement		<u></u>	Other, specify	d, give reason:	Static Level 15 ¹ 9	((349
2 0 Bentonite slurry		21			1 25.6		25.5
			Pump intake set at (n	07AD			200
			180'		2 29,1	2	H-2
Method of Construction	Well U	50	Pumping rate (I/min /	<u>GPM</u>	3 B2,5	3	18.4
Cable Tool Diamond Public			20		4 340	4	15.9
□ Rotary (Conventional) □ Jetting ↓ Domesti □ Rotary (Reverse) □ Driving □ Livestoc		pal 🗌 Dewatering	Duration of pumping			•	
		olo	$\int dr dr dr hrs + O rr$	nin	5 21 9	7 5	1
Boring Digging Irrigation		ole Difference Monitoring	Final water level end of]		1	
Boring Digging Irrigation	n 🗌 Cooling al		Final water level end of 34 (f pumping <i>(m/ft)</i> I	10	10	
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Ontario	Ministry of the Environment
Measurements recorded in	_ `~

Tag#: A128140 Wel

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A128140

Well Record Regulation 903 Ontario Water Resources Act

Page___ of

Well Ow First Name	NUMBER OF STREET	nformation	Last Name / Organiz	ation	n an	E-mail Address				7	Constructed	
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-	-	reet Number/Na		n National de la Contra Contra de la Contra d	Municipality Ashton	Province On	Postal Code			NO. (<i>inc.</i>	area code)	
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County/Dis		nicipality Carleton		C	City/Town/Village		n an	Provir Ont		Posta	I Code	
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70 1	60	Neat c	ement		10.9	Other, specify	Not tester	(min)	(m/ft)	(min)	(m/ft)	
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Well Owner's I		1							
First Name		e / Organization	rio Limited (c/o Ca	E-mail Address					Constructed ell Owner
	reet Number/Name)		Municipality Ashton	Province	Postal Code	1	Telephone N		
Well Location				<u> </u>					
	cation (Street Number/Nan I Prescott Road nicipality	ne)	Township Osgoode City/Town/Village		Lot P/L 2		Concession 4S	Posta	I Code
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				Pump intake set at (m2 190	Ð	2	48	2	71.7
Method of	Construction	Wel	I Use	Pumping rate (I/min / 🧲	EMP	3	52.3	3	65.4
			nmercial 🔲 Not used nicipal 🗌 Dewatering	12 Duration of pumping		4	55.9	4	59.8
Rotary (Conventio	Driving 🗍	Livestock	t Hole	1 hrs + 0 mi		5	59.2	5	55.1
Boring		Irrigation Coc Industrial	bling & Air Conditioning	Final water level end of p	oumping (m/ft)	10	71.1	10	40.1
Other, specify		Other, <i>specify</i>		If flowing give rate (I/min	n / GPM)	15	77.2	15	36
	Construction Record - C	Depth (mm)	Status of Well	Recommended pump of	lepth (n	20	83.2	20	34.3
Diameter (Galvai	nized, Fibreglass, Thickness te, Plastic, Steel) (cm@)	s	Replacement Well	190 /		25	86	25	34.3
G'A" Stee	er .188	" +2 ['] 58	Recharge Well	Recommended pump r	ate	30	88.9	30	34.3
	n Hole	58 / 200	Dewatering Well	12 Well production (//min &	<u>an</u>	40	92	40	34.3
<u>-010</u>			Monitoring Hole	12		50	95.5	50	34.3
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	Construction Record - So	creen	Insufficient Supply		Map of We		ation		
Outside Diameter (<i>cm/in</i>) (Plastic,	Material Galvanized, Steel) Slot No.	Depth (<i>m/ft</i>) From To	Water Quality	Please provide a map be OCTODO OCO (TREE LI		2001			
· · · · ·	-	2	Other, <i>specify</i>	(TREE LI	NE)	~	#10	34	D.
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Water Details	Hole Diameter	
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189 (m(ft) Gas Other, specify	and the providence of the second s	
Water found at Depth Kind of Water: Fresh Untested	58 200 6/8	
(<i>m/ft</i>) Gas Other, <i>specify</i>		
Well Contractor and Well Technician	n Information	
Business Name of Well Contractor	Well Contractor's Licence No.	
Air Rock Drilling Co. Ltd.	survey and 1118:	
Business Address (Street Number/Name)	Municipality	Comments
6659 Franktown Road, RR#1	RIGIMOIU	3/4 H
Province Postal Code Business E-mail Addr		
ON KQA 220 A A A A A A A A A A A A A A A A A	@sympatico.ca	Well owner
Bus.Telephone No. (inc. area code) Name of Well Technician (La	ast Name, First Name)	information package
6138382170 Graham, Ryan	andra Balanda (Balanda) Marana (Balanda) Marana (Balanda) (Balanda)	delivered
Well Technician's Licence No. Signature of Technician and/or Cor	tractor Date Submitted	XYes
T3484 Kours		No No
0506E (2007/12) © Queen's Printer for Ontario, 2007	Ministry's Copy	

ROAD . 3KW ϕ Mackeown Drive

3/4 HP	- 10 GPM SET AT 19	OFT TESTWELL #2
formation	Date Package Delivered	

Follow the **COVID-19 restrictions and public health measures (https://covid-**<u>**19.ontario.ca/public-health-measures)** and **book your appointment to get vaccinated** (https://covid-19.ontario.ca/book-vaccine/).</u>

♥-♥-

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Menu

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 <u>Open Data catalogue</u> (<u>https://data.ontario.ca/dataset/well-records)</u>.

<u>Go Back to Map ()</u>

Well ID

Well ID Number: 7206661
Well Audit Number: *Z155129*Well Tag Number: *A128106 This table contains information from the original well record and any subsequent updates.*

Well Location

Address of Well Location

6808 HIRAM DRIVE

3/22, 9:13 AM	Map: Well records ontario.ca
Township	OSGOODE TOWNSHIP
Lot	005
Concession	CON 04
County/District/Municipality	OTTAWA-CARLETON
City/Town/Village	GREELV
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 18 Easting: 454576.00 Northing: 5011680.00

Municipal Plan and Sublot Number

Other

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	
BRWN	CLAY			0 ft	5 ft
GREY	CLAY			5 ft	18 ft
	SAND	GRVL	BLDR	18 ft	52 ft
GREY	LMSN			52 ft	135 ft
GREY	LMSN	SNDS		135 ft	153 ft
GREY	LMSN	SNDS		153 ft	160 ft

Annular Space/Abandonment Sealing Record

	Depth To	Type of Sealant Used (Material and Type)	
50 ft	0 ft	BENTONITE SLURRY	
60 ft	50 ft	CONCRETE	

Method of Construction & Well Use

Method of Construction	Well Use
Air Percussion	
	Domestic

Status of Well

Water Supply

Construction Record - Casing

Inside Diameter	Open Hole or material	Depth From	
6.25 inch	STEEL	-2 ft	60 ft
6 inch	OPEN HOLE	60 ft	160 ft

Construction Record - Screen

Outside	Material	Depth	Depth
Diameter		From	То

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 1119

Results of Well Yield Testing

After test of well yield, water was

If pumping discontinued, give reason			
Pump intake set at	150 ft		
Pumping Rate	20 GPM		
Duration of Pumping	1 h:0 m		
Final water level	36.6 ft		
If flowing give rate			
Recommended pump depth	100 ft		
Recommended pump rate	20 GPM		
Well Production			
Disinfected?	Y		

Draw Down & Recovery

Draw Down Time(min)	Draw Down Water level	Recovery Time(min)	Recovery Water level
SWL	18.3 ft		
1	22.5 ft	1	27.6 ft
2	24.5 ft	2	26.6 ft
3	25.7 ft	3	26 ft

2/23/22, 9:13 AM		Map: Well records ontario	ca
4	26.6 ft	4	25.4 ft
5	27.4 ft	5	24.8 ft
10	29.5 ft	10	21.8 ft
15	31.1 ft	15	19 ft
20	32.7 ft	20	18.3 ft
25	33 ft	25	18.3 ft
30	33.3 ft	30	18.3 ft
40	34.5 ft	40	18.3 ft
45		45	
50	35.7 ft	50	18.3 ft
60	36.6 ft	60	18.3 ft

Water Details

Water Found at Depth	Kind
153 ft	Untested

Hole Diameter

Depth From	Depth To	Diameter
0 ft	60 ft	9.75 inch
60 ft	160 ft	6 inch

Audit Number: Z155129

Date Well Completed: June 24, 2013

Date Well Record Received by MOE: August 19, 2013

Related

How to use a Ministry of the Environment map (/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

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Ontario Ministry of the Environment	Tag#: A13530	Print Below)	V Ilation 903 Ontario W	lell Recor
Measurements recorded in: 🗌 Metric 💢 Impe	rial		Pag	e of
Well Owner's Information				
First Name Last Name / Orga	nization 341 Ontario Limited (clo C	E-mail Address		Well Constructe by Well Owner
Mailing Address (Street Number/Name)	Municipality	Province Postal	Code Telephone	No. (inc. area code)
9094 Cavanagh Road	Ashton	<u>On</u> K	(0A 1B0	
Well Location Address of Well Location (Street Number/Name)	Township	Lot	Concessi	าก
1240 Old Prescott Road			P/L 4 49	
County/District/Municipality	City/Town/Village		Province	Postal Code
Ottawa-Carleton	g Greely Municipal Plan and Sub	lot Number	Ontario	
	n + 24 dz		TESTM	C11.#A
Overburden and Bedrock Materials/Abandonme		e back of this form)	IED: VV	
General Colour Most Common Material	Other Materials	General Desci	ription	Depth (m4) From To
Sand				0 20
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TEST	WELL#4			
Annular Space		Results	of Well Yield Testing	l
Depth Set at (m/0) Type of Sealant U	Jsed Volume Placed	After test of well yield, water was	: Draw Down	Recovery
From To (Material and Typ 58 48 Neat cement		Clear and sand free	Time Water Lev (min) (m/ft)	el Time Water Leve (<i>min</i>) (<i>m/ft</i>)
		If pumping discontinued, give rea		2 14.8
48 0 Bentonite slurry	29.4	$\ \times$	1 12.	
		Pump intake set at (mft)	2 13.	
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Method of Construction	Well Use	Pumping rate (I/min / CPM)	3 13.	
Cable Tool Diamond Public	Commercial Not used		3 13. 4 13.	
Cable Tool Diamond Public Rotary (Conventional) Jetting Diamond Rotary (Reverse) Driving Livestock	Commercial Not used Municipal Dewatering Test Hole Monitoring	Pumping rate (<i>I/min / Pumping</i> 20 Duration of pumping 1 hrs + 0 min	4 13. 5 13.	5 4 12
Cable Tool Diamond Public Rotary (Conventional) Jetting Conventional Rotary (Reverse) Driving Livestock Boring Digging Irrigation	Commercial Not used Municipal Dewatering Test Hole Monitoring Cooling & Air Conditioning	Pumping rate (<i>I/min / Pumping</i> 20 Duration of pumping <u>1</u> hrs + <u>0</u> min Final water level end of pumping	4 13. 5 13.	5 4 12 7 5 12
Cable Tool Diamond Public Rotary (Conventional) Jetting Comestic Rotary (Reverse) Driving Livestock Boring Digging Irrigation	Commercial Not used Municipal Dewatering Test Hole Monitoring Cooling & Air Conditioning	Pumping rate (<i>I/min / Pumping</i> 20 Duration of pumping 1 hrs + 0 min	(m/ft) 10 14.	5 4 12 7 5 12 4 10 12
Cable Tool Diamond Public Rotary (Conventional) Jetting Domestic Rotary (Reverse) Driving Livestock Boring Digging Irrigation Air percussion Industrial Other, specify Construction Record - Casing Construction Record - Casing	Commercial Not used Municipal Dewatering Test Hole Monitoring Cooling & Air Conditioning	Pumping rate (<i>I/min / Pumping</i>) 20 Duration of pumping <u>hrs +</u> min Final water level end of pumping <u>14.8</u> If flowing give rate (<i>I/min / GPM</i>)	(<i>m/fl</i>) 10 14. 20 14	5 4 12 7 5 12 4 10 12 8 15 12
Cable Tool Diamond Public Rotary (Conventional) Jetting Domestic Rotary (Reverse) Driving Livestock Boring Digging Irrigation Air percussion Industrial Other, specify Other, specify Other, specify Wall Inside Open Hole OR Material Wall	Commercial Not used Municipal Dewatering Test Hole Monitoring Cooling & Air Conditioning Cooling & Air Conditioning	Pumping rate (<i>I/min / Pumping rate (I/min / Pumping 20)</i> Duration of pumping <u>14 s '</u> If flowing give rate (<i>I/min / GPM</i>) Recommended pump depth (<i>m</i>)	(<i>m/ft</i>) 4 13. 5 13. (<i>m/ft</i>) 10 14. 15 14. 20 14.	5 4 12 7 5 12 4 10 12 8 15 12 3 20 12
Cable Tool Diamond Rotary (Conventional) Jetting Rotary (Reverse) Driving Boring Digging Air percussion Industrial Other, specify Other, specify Construction Record - Casing Inside Open Hole OR Material Diameter (Galvanized, Fibreglass, Concrete, Plastic, Steel) Thickness (cm/in)		Pumping rate (<i>I/min / EM</i>) 20 Duration of pumping <u>hrs +</u> min Final water level end of pumping <u>14.8</u> If flowing give rate (<i>I/min / GPM</i>) Recommended pump depth (<i>m</i>) Recommended pump rate	(m/ft) (m/ft) (m/ft) 10 14. 15 14. 20 14. 25 14. 25 14.	5 4 12 7 5 12 4 10 12 9 15 12 3 20 12 3 25 12
Cable Tool Diamond Rotary (Conventional) Jetting Rotary (Reverse) Driving Boring Digging Air percussion Industrial Other, specify Other, specify Construction Record - Casing Inside Open Hole OR Material Diameter (Galvanized, Fibreglass, Concrete, Plastic, Steel) Thickness (cm/in)	Commercial Not used Municipal Dewatering Test Hole Monitoring Cooling & Air Conditioning	Pumping rate (<i>I/min / EM</i>) 20 Duration of pumping <u>hrs +</u> min Final water level end of pumping <u>14.8</u> If flowing give rate (<i>I/min / GPM</i>) Recommended pump depth (<i>m</i> <u>3/4HC</u>	(m/ft) (m/ft) (m/ft) 10 14 15 14 20 14 25 14 30 14 15	5 4 12 7 5 12 4 10 12 8 15 12 3 20 12 3 25 12 3 30 12
Cable Tool Diamond Rotary (Conventional) Jetting Rotary (Reverse) Driving Boring Digging Air percussion Industrial Other, specify Other, specify Construction Record - Casing Inside Open Hole OR Material Diameter (Galvanized, Fibreglass, concrete, Plastic, Steel) Thickness Chalt Steel .188	Commercial Not used Municipal Dewatering Test Hole Monitoring Cooling & Air Conditioning becify Depth (m/ft) Status of Well Perform To +2 < 58	Pumping rate (I/min / EM) 20 Duration of pumping 1hrs + min Final water level end of pumping 14.8' If flowing give rate (I/min / GPM) Recommended pump depth (m 3/4+H Recommended pump rate (I/min / EM) 20 Well production (I/min / GPM)	(m/ft) (m/ft) (m/ft) 10 14. 15 14. 20 14. 25 14. 25 14.	5 4 12 7 5 12 4 10 12 8 15 12 3 20 12 3 25 12 3 30 12
Cable Tool Diamond Rotary (Conventional) Jetting Rotary (Reverse) Driving Boring Digging Air percussion Industrial Other, specify Other, specify Construction Record - Casing Inside Open Hole OR Material Diameter (Galvanized, Fibreglass, concrete, Plastic, Steel) Thickness Construction Construction Record - Casing		Pumping rate (I/min / CPM) 20 Duration of pumping 1hrs + min Final water level end of pumping 14.8 ⁵ If flowing give rate (I/min / GPM) Recommended pump depth (I/min / CPM) Recommended pump rate (I/min / CPM) 20 Well production (I/min / GPM) 20	(m/ft) (m/ft) (m/ft) 10 14 15 14 20 14 25 14 30 14 15	5 4 12 7 5 12 4 10 12 8 15 12 9 20 12 9 25 12 9 30 12 9 40 12
Cable Tool Diamond Rotary (Conventional) Jetting Rotary (Reverse) Driving Boring Digging Air percussion Industrial Other, specify Other, specify Construction Record - Casing Inside Open Hole OR Material Diameter (Galvanized, Fibreglass, concrete, Plastic, Steel) Thickness Construction Construction Record - Casing	Commercial Not used Municipal Dewatering Cooling & Air Conditioning Coolin	Pumping rate (I/min / EM) 20 Duration of pumping 1hrs + min Final water level end of pumping 14.8' If flowing give rate (I/min / GPM) Recommended pump depth (m 3/4+H Recommended pump rate (I/min / EM) 20 Well production (I/min / GPM)	(m/ft) (m/ft) (m/ft) 10 14 15 14 15 14 20 14 25 14 30 14 40 14 15	5 4 12 7 5 12 4 10 12 8 15 12 9 20 12 9 25 12 9 30 12 9 40 12 9 50 12
Cable Tool Diamond Rotary (Conventional) Jetting Rotary (Reverse) Driving Boring Digging Air percussion Industrial Other, specify Other, specify Construction Record - Casing Inside Open Hole OR Material Diameter (Galvanized, Fibreglass, concrete, Plastic, Steel) Thickness 6 1/8* Open Hole 188* 6 1/8* Open Hole 6	Commercial Not used Municipal Dewatering Test Hole Monitoring Cooling & Air Conditioning Mecify Depth (m/ft) om To +2 58 180 180 Cobservation and/or Monitoring Hole Alteration (Construction)	Pumping rate (<i>I/min / CPM</i>) 20 Duration of pumping <u>hrs +</u> min Final water level end of pumping <u>14.8</u> ' If flowing give rate (<i>I/min / GPM</i>) Recommended pump depth (<i>m</i> (<i>I/min / CPM</i>) 20 Well production (<i>I/min / CPM</i>) 20 Map of the term of the term of the term of the term of term	(m/ft) (m/ft) (m/ft) 10 14 15 14 15 14 20 14 20 14 25 14 30 14 40 14 50 14 15 14 20 14 15 14 20 14 15 14 20 14 10 14 20 14 15 14 20 14 15 14 20 14 15 14 20 14 15 14 20 14 15 14 20 14 15 14 20 14 15 14 20 14 15 14 20 14 15 14 20 14 15 14 25 14 15 14 25 14 15 14 25 14 15 14 25 14 15 14 25 14 15 14 25 14 15 14 25 14 15 15 14 15 15 15 15 15 15 15 15 15 15	5 4 12 7 5 12 4 10 12 3 15 12 3 20 12 3 20 12 3 30 12 3 40 12 3 50 12 3 60 12'
Cable Tool Diamond Rotary (Conventional) Jetting Rotary (Reverse) Driving Boring Digging Air percussion Industrial Other, specify Other, specify Inside Open Hole OR Material Diameter (Galvanized, Fibreglass, Concrete, Plastic, Steel) Chi/4." Steel .188 .188 Construction Record - Screen Outside Material Diameter Construction Record - Screen Slot No. Slot No.	Commercial Not used Municipal Dewatering Test Hole Monitoring Cooling & Air Conditioning Depth (m/ft) Water Supply om To +2 ' 58' Servation and/or Monitoring Hole Alteration (Construction) Abandoned, Insufficient Supply Depth (m/ft) Abandoned, Insufficient Supply	Pumping rate (I/min / Pumping rate (I/min / Pumping 20 Duration of pumping 1 hrs + min Final water level end of pumping 14.8 ' If flowing give rate (I/min / GPM) Recommended pump depth (m (1) Pumping 20 Well production (I/mie/TGPM) 20 Well production (I/mie/TGPM) 20 Well production (I/mie/TGPM) 20 Well production (I/mie/TGPM)	(m/ft) (m/ft) (m/ft) 10 14 15 14 15 14 20 14 20 14 25 14 30 14 40 14 50 14 15 14 20 14 15 14 20 14 15 14 20 14 10 14 20 14 15 14 20 14 15 14 20 14 15 14 20 14 15 14 20 14 15 14 20 14 15 14 20 14 15 14 20 14 15 14 20 14 15 14 20 14 15 14 25 14 15 14 25 14 15 14 25 14 15 14 25 14 15 14 25 14 15 14 25 14 15 14 25 14 15 15 14 15 15 15 15 15 15 15 15 15 15	5 4 12 7 5 12 4 10 12 3 15 12 3 20 12 3 20 12 3 30 12 3 40 12 3 50 12 3 60 12'
Cable Tool Diamond Rotary (Conventional) Jetting Rotary (Reverse) Driving Boring Digging Air percussion Industrial Other, specify Other, specify Construction Record - Casing Inside Open Hole OR Material Concrete, Plastic, Steel) Thickness Construction Record - Screen Gutside Outside Material Sigt Mo Sigt Mo	□ Commercial □ Not used □ Municipal □ Dewatering □ Test Hole □ Monitoring □ Cooling & Air Conditioning Decify Depth (m/ft) ○ Depth (m/ft) ○ Monitoring □ To +2 < 58	Pumping rate (<i>I/min / CPM</i>) 20 Duration of pumping <u>hrs +</u> min Final water level end of pumping <u>14.8</u> ' If flowing give rate (<i>I/min / GPM</i>) Recommended pump depth (<i>m</i> (<i>I/min / CPM</i>) 20 Well production (<i>I/min / CPM</i>) 20 Map of the term of the term of the term of the term of term	(m/ft) (m/ft) (m/ft) 10 14 15 14 15 14 20 14 20 14 25 14 30 14 40 14 50 14 15 14 20 14 15 14 20 14 15 14 20 14 10 14 20 14 15 14 20 14 15 14 20 14 15 14 20 14 15 14 20 14 15 14 20 14 15 14 20 14 15 14 20 14 15 14 20 14 15 14 20 14 15 14 25 14 15 14 25 14 15 14 25 14 15 14 25 14 15 14 25 14 15 14 25 14 15 14 25 14 15 15 14 15 15 15 15 15 15 15 15 15 15	5 4 12 7 5 12 4 10 12 3 15 12 3 20 12 3 20 12 3 30 12 3 40 12 3 50 12 3 60 12'
Cable Tool Diamond Rotary (Conventional) Jetting Rotary (Reverse) Driving Boring Digging Air percussion Industrial Other, specify Other, specify Inside Open Hole OR Material Diameter (Galvanized, Fibreglass, Concrete, Plastic, Steel) Chi/4." Steel .188 .188 Construction Record - Screen Outside Material Diameter Construction Record - Screen Slot No. Slot No.	Commercial Not used Municipal Dewatering Test Hole Monitoring Cooling & Air Conditioning Decify Depth (m/ft) Status of Well Pecify Status of Well Depth (m/ft) Replacement Well Test Hole Recharge Well Dewatering Well Observation and/or Monitoring Hole Alteration (Construction) Abandoned, Insufficient Supply Depth (m/ft) om To	Pumping rate (I/min / CPM) 20 Duration of pumping 1hrs + min Final water level end of pumping 14.8' If flowing give rate (I/min / GPM) Recommended pump depth (m 3/4+H Recommended pump rate (I/min / CPM) 20 Well production (I/min / GPM) 20 Well production (I/min / GPM) 20 Wel	(m/ft) 4 13. 5 13. (m/ft) 10 14. 15 14. 20 14. 20 14. 25 14. 30 14. 40 14. 50 14. 60 14. 60 14. 50 5. 50	5 4 12 7 5 12 4 10 12 5 12 4 10 12 5 12 4 10 12 5 12 3 20 12 3 30 12 3 50 12 3 60 12'
Cable Tool Diamond Rotary (Conventional) Jetting Rotary (Reverse) Driving Boring Digging Air percussion Industrial Other, specify Other, specify Inside Open Hole OR Material Diameter (Galvanized, Fibreglass, Concrete, Plastic, Steel) Chi/4." Steel .188 .188 Construction Record - Screen Outside Material Diameter Construction Record - Screen Slot No. Slot No.	□ Commercial □ Not used □ Municipal □ Dewatering □ Test Hole □ Monitoring □ Cooling & Air Conditioning □ Cooling & Air Conditioning □ Depth (m/ft) ○ Matter Supply □ Replacement Well +2 58 180 □ Destration (Construction) △ Abandoned, Poor Water Quality	Pumping rate (I/min / CPM) 20 Duration of pumping 1hrs + min Final water level end of pumping 14.8' If flowing give rate (I/min / GPM) Recommended pump depth (m 3/4+H Recommended pump rate (I/min / CPM) 20 Well production (I/min / GPM) 20 Well production (I/min / GPM) 20 Wel	(m/ft) 4 13. 5 13. (m/ft) 10 14. 15 14. 20 14. 20 14. 25 14. 30 14. 40 14. 50 14. 60 14. 60 14. 50 5. 50	5 4 12 7 5 12 4 10 12 5 12 4 10 12 5 12 4 10 12 5 12 3 20 12 3 30 12 3 50 12 3 60 12'
Cable Tool Diamond Rotary (Conventional) Jetting Rotary (Reverse) Driving Boring Digging Air percussion Industrial Other, specify Other, specify Construction Record - Casing Inside Open Hole OR Material Uameter (Galvanized, Fibreglass, Concrete, Plastic, Steel) Thickness 6'4" Steel .188 6'5'8 Open Hole Store Construction Record - Screen Outside Material Slot No. Plastic, Galvanized, Steel) Slot No. Fr Water Details	□ Commercial □ Not used □ Test Hole □ Monitoring □ Cooling & Air Conditioning □ Depth (m/ft) □ Replacement Well □ Test Hole +2 58 180 □ □ Dewatering Well □ Observation and/or Monitoring Hole □ Alteration (Construction) □ Abandoned, Insufficient Supply □ Abandoned, Poor Water Quality □ Abandoned, other, specify □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	Pumping rate (I/min / CPM) 20 Duration of pumping 1hrs + min Final water level end of pumping 14.8' If flowing give rate (I/min / GPM) Recommended pump depth (m 3/4+H Recommended pump rate (I/min / CPM) 20 Well production (I/min / GPM) 20 Well production (I/min / GPM) 20 Wel	(m/ft) 4 13. 5 13. (m/ft) 10 14. 15 14. 20 14. 20 14. 25 14. 30 14. 40 14. 50 14. 60 14. 60 14. 50 5. 50	5 4 12 7 5 12 4 10 12 5 12 4 10 12 5 12 4 10 12 5 12 3 20 12 3 30 12 3 50 12 3 60 12'
Cable Tool Diamond Rotary (Conventional) Jetting Rotary (Reverse) Driving Boring Digging Air percussion Industrial Other, specify Open Hole OR Material Diameter (Carvin) Open Hole OR Material Construction Record - Casing Inside Open Hole OR Material Diameter (Carvin) Concrete, Plastic, Steel) Construction Record - Screen Outside Material Diameter (crnvin) (Plastic, Galvanized, Steel) Slot No. Fr Water found at Depth Kind of Water:	□ Commercial □ Not used □ Test Hole □ Monitoring □ Cooling & Air Conditioning □ Depth (m/ft) □ Replacement Well □ Test Hole +2 58 180 □ □ Dewatering Well □ Observation and/or Monitoring Hole □ Alteration (Construction) □ Abandoned, Insufficient Supply □ Abandoned, Poor Water Quality □ Abandoned, other, specify □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	Pumping rate (I/min / CPM) 20 Duration of pumping 1hrs + min Final water level end of pumping 14.8' If flowing give rate (I/min / GPM) Recommended pump depth (m 3/4+H Recommended pump rate (I/min / CPM) 20 Well production (I/min / GPM) 20 Well production (I/min / GPM) 20 Wel	(m/ft) 4 13. 5 13. (m/ft) 10 14. 15 14. 20 14. 20 14. 25 14. 30 14. 40 14. 50 14. 60 14. 60 14. 50 5. 50	5 4 12 7 5 12 4 10 12 5 12 4 10 12 5 12 4 10 12 5 12 3 20 12 3 30 12 3 50 12 3 60 12'
Cable Tool Diamond Rotary (Conventional) Jetting Rotary (Reverse) Driving Boring Digging Air percussion Industrial Other, specify Other, specify Construction Record - Casing Inside Open Hole OR Material Uameter (Galvanized, Fibreglass, Concrete, Plastic, Steel) Thickness 6'4" Steel .188 6'5'8 Open Hole Store Construction Record - Screen Outside Material Slot No. Plastic, Galvanized, Steel) Slot No. Fr Water Details	□ Commercial □ Not used □ Test Hole □ Monitoring □ Cooling & Air Conditioning □ Depth (m/ft) □ Replacement Well □ Test Hole +2 ' 58 ' 180 ' Observation and/or Monitoring Hole □ Alteration (Construction) □ Abandoned, Insufficient Supply □ Abandoned, Poor Water Quality □ Other, specify □ Other, specify □ Other, specify	Pumping rate (I/min / CPM) 20 Duration of pumping 1hrs + min Final water level end of pumping 14.8' If flowing give rate (I/min / GPM) Recommended pump depth (m 3/4+H Recommended pump rate (I/min / CPM) 20 Well production (I/min / GPM) 20 Well production (I/min / GPM) 20 Wel	(m/ft) 4 13. 5 13. (m/ft) 10 14. 15 14. 20 14. 20 14. 25 14. 30 14. 40 14. 50 14. 60 14. 60 14. 50 5. 50	5 4 12 7 5 12 4 10 12 5 12 4 10 12 5 12 4 10 12 5 12 3 20 12 3 30 12 3 50 12 3 60 12'
Cable Tool □ Diamond □ Public Rotary (Conventional) □ Jetting □ Diomostic Boring □ Digging □ Livestock □ Air percussion □ Industrial □ Other, specify □ Other, specify □ Other, specify □ Other, specify □ Stare Construction Record - Casing Inside Open Hole OR Material Wall Diameter (Galvanized, Fibreglass, Concrete, Plastic, Steel) Thickness (Cm/in) Construction Record - Screen Outside Material Slot No. Diameter (Plastic, Galvanized, Steel) Slot No. (cm/in) (Plastic, Galvanized, Steel) Slot No. Vater found at Depth Kind of Water: Fresh Gg (m/ft) Gas Other, specify Water found at Depth Kind of Water: Fresh Water 147 (mft) Gas Other, specify Unit	□ Commercial □ Not used □ Test Hole □ Monitoring □ Cooling & Air Conditioning □ Depth (m/ft) □ Status of Well □ Depth (m/ft) □ Replacement Well □ Test Hole +2 58 180 Observation and/or Monitoring Hole □ Alteration (Construction) □ Abandoned, Insufficient Supply □ Abandoned, other, specify □ Other, specify □ Other, specify □ Depth (m/ft) 0 Diameter From To ested 0 0 56 13/4 "	Pumping rate (I/min / CPM) 20 Duration of pumping hrs + min Final water level end of pumping hrs ' If flowing give rate (I/min / GPM) Recommended pump depth (m Recommended pump rate (I/min / CPM) 20 Well production (I/min / GPM) 20 Well production (I/min / GPM) 20 Well production (I/min / GPM) 20 Please provide a map below follo	(m/ft) 4 13. 5 13. (m/ft) 10 14. 15 14. 20 14. 20 14. 25 14. 30 14. 40 14. 50 14. 60 14. 60 14. 50 5. 50	5 4 12 7 5 12 4 10 12 5 12 4 10 12 5 12 4 10 12 5 12 3 20 12 3 30 12 3 50 12 3 60 12'
Cable Tool Diamond Rotary (Conventional) Jetting Rotary (Reverse) Driving Boring Digging Air percussion Industrial Other, specify Other, specify Construction Record - Casing Inside Open Hole OR Material Diameter (Calvanized, Fibreglass, Concrete, Plastic, Steel) Thickness (cm/in) Construction Record - Screen Outside Material Slot No. Diameter (Plastic, Galvanized, Steel) Slot No. (cm/in) Plastic, Galvanized, Steel) Slot No. Vater Details Water found at Depth Kind of Water: Fresh Uater found at Depth Kind of Water: Fresh Untert 147 (mft) Gas Other, specify Untert 147 Gas Other, specify Untert Inster	□ Commercial □ Not used □ Municipal □ Dewatering □ Test Hole □ Monitoring □ Cooling & Air Conditioning Deeth (m/ft) □ Replacement Well □ □ Test Hole +2 58 180 □ 180 □ Deservation and/or Monitoring Hole ↓ ↓ Abandoned, Insufficient Supply □ □ □ Abandoned, Insufficient Supply □ □ ↓ ∆bandoned, other, specify □ □ □ □ 0 □ □ □ 0 □ □ □ 0 □ □ □ 0 □ □ □ 0 □ □ □ 0 □ □	Pumping rate (I/min / CPM) 20 Duration of pumping 1hrs + min Final water level end of pumping 14.8' If flowing give rate (I/min / GPM) Recommended pump depth (m 3/4+H Recommended pump rate (I/min / CPM) 20 Well production (I/min / GPM) 20 Well production (I/min / GPM) 20 Wel	(m/ft) (m/ft) (m/ft) 10 14 15 14 15 14 20 14 20 14 25 14 30 14 40 14 50 14 15 14 20 14 15 14 20 14 15 14 20 14 10 14 20 14 15 14 20 14 15 14 20 14 15 14 20 14 15 14 20 14 15 14 20 14 15 14 20 14 15 14 20 14 15 14 20 14 15 14 20 14 15 14 25 14 15 14 25 14 15 14 25 14 15 14 25 14 15 14 25 14 15 14 25 14 15 14 25 14 15 15 14 15 15 15 15 15 15 15 15 15 15	5 4 12 7 5 12 4 10 12 5 12 4 10 12 5 12 4 10 12 5 12 3 20 12 3 30 12 3 50 12 3 60 12'
□ Cable Tool □ Diamond □ Public □ Rotary (Conventional) □ Jetting □ Dirwing □ Livestock □ Boring □ Digging □ Industrial □ Industrial □ Other, specify □ Other, specify □ Other, specify □ Other, specify Inside Open Hole OR Material Wall Thickness □ Construction Record - Casing Industrial Construction Record - Casing Inside Open Hole OR Material Wall Thickness □ Concrete, Plastic, Steel) Thickness Fr □ 6 ¹ /8 ¹ Open Hole .188 ⁴ □ 6 ¹ /8 ¹ Open Hole .188 ⁴ □ 6 ¹ /8 ¹ Open Hole .188 ⁴ □ 6 ¹ /8 ¹ Open Hole .188 ⁴ □ 6 ¹ /8 ¹ Open Hole .188 ⁴ □ 6 ¹ /8 ¹ Open Hole .188 ⁴ □ 6 ¹ /8 ¹ Open Hole .188 ⁴ □ 6 ¹ /8 ¹ Open Hole .188 ⁴ □ 6 ¹ /8 ¹ Open Hole .188 ⁴ □ 6 ¹ /8 ¹ Open Hole .188 ⁴ □ 7 ¹ /8 ¹ Gas Other, specify	□ Commercial □ Not used □ Test Hole □ Monitoring □ Cooling & Air Conditioning □ Depth (m/ft) □ Test Hole +2 58 180 □ □ Devatering Well □ Devatering Well □ Devatering Well □ □ <td< td=""><td>Pumping rate (I/min / CPM) 20 Duration of pumping hrs + min Final water level end of pumping hrs ' If flowing give rate (I/min / GPM) Recommended pump depth (m Recommended pump rate (I/min / CPM) 20 Well production (I/min / GPM) 20 Well production (I/min / GPM) 20 Well production (I/min / GPM) 20 Please provide a map below follo</td><td>(m/ft) 4 13. 5 13. (m/ft) 10 14. 15 14. 20 14. 20 14. 25 14. 30 14. 40 14. 50 14. 60 14. 60 14. 50 5. 50 5. 50</td><td>5 4 12 7 5 12 4 10 12 5 12 4 10 12 5 12 4 10 12 5 12 3 20 12 3 30 12 3 50 12 3 60 12'</td></td<>	Pumping rate (I/min / CPM) 20 Duration of pumping hrs + min Final water level end of pumping hrs ' If flowing give rate (I/min / GPM) Recommended pump depth (m Recommended pump rate (I/min / CPM) 20 Well production (I/min / GPM) 20 Well production (I/min / GPM) 20 Well production (I/min / GPM) 20 Please provide a map below follo	(m/ft) 4 13. 5 13. (m/ft) 10 14. 15 14. 20 14. 20 14. 25 14. 30 14. 40 14. 50 14. 60 14. 60 14. 50 5. 50	5 4 12 7 5 12 4 10 12 5 12 4 10 12 5 12 4 10 12 5 12 3 20 12 3 30 12 3 50 12 3 60 12'
Cable Tool Diamond Public Rotary (Conventional) Jetting Consensition Rotary (Reverse) Driving Livestock Boring Digging Inrigation Air percussion Industrial Other, specify Inside Open Hole OR Material Wall Diameter (Galvanized, Fibreglass, Concrete, Plastic, Steel) Thickness (cm/in) Fr 6 1/8 '' Open Hole OR Material Wall Fr 6 1/8 '' Open Hole OR Material Wall Fr 6 1/8 '' Open Hole OR Material Wall Fr 6 1/8 '' Open Hole OR Material Wall Fr 6 1/8 '' Open Hole OR Material Wall Fr 6 1/8 '' Open Hole OR Material Slot No. Fr 6 1/8 '' Open Hole Slot No. Fr 9 1/8 Open Hole Slot No. Fr Slot No. 9 1/8 Open Hole Slot No. Fr Slot No. 9 1/8 Open Gas Other, specify Water found at Depth Slot No. Fr 9 1/8 Open Gas Other, specify	□ Commercial □ Not used □ Test Hole □ Monitoring □ Cooling & Air Conditioning □ Depth (m/ft) □ Test Hole +2 58 180 □ □ Devatering Well □ Devatering Well □ Devatering Well □ □ <td< td=""><td>Pumping rate (I/min / CPM) 20 Duration of pumping hrs + min Final water level end of pumping hrs ' If flowing give rate (I/min / GPM) Recommended pump depth (m Recommended pump rate (I/min / CPM) 20 Well production (I/min / GPM) 20 Well production (I/min / GPM) 20 Well production (I/min / GPM) 20 Please provide a map below follo</td><td>(m/ft) 4 13. 5 13. (m/ft) 10 14. 15 14. 20 14. 20 14. 25 14. 30 14. 40 14. 50 14. 60 14. 60 14. 50 5. 50 5. 50</td><td>5 4 12 7 5 12 4 10 12 5 12 4 10 12 5 12 4 10 12 5 12 3 20 12 3 30 12 3 50 12 3 60 12'</td></td<>	Pumping rate (I/min / CPM) 20 Duration of pumping hrs + min Final water level end of pumping hrs ' If flowing give rate (I/min / GPM) Recommended pump depth (m Recommended pump rate (I/min / CPM) 20 Well production (I/min / GPM) 20 Well production (I/min / GPM) 20 Well production (I/min / GPM) 20 Please provide a map below follo	(m/ft) 4 13. 5 13. (m/ft) 10 14. 15 14. 20 14. 20 14. 25 14. 30 14. 40 14. 50 14. 60 14. 60 14. 50 5. 50	5 4 12 7 5 12 4 10 12 5 12 4 10 12 5 12 4 10 12 5 12 3 20 12 3 30 12 3 50 12 3 60 12'
Cable Tool Diamond Public Rotary (Conventional) Jetting Construction Boring Driving Livestock Other, specify Other, specify Other, specify Construction Record - Casing Inside Open Hole OR Material Wall Diameter (Galvanized, Fibreglass, Concrete, Plastic, Steel) Thickness Construction Record - Screen Outside 188 Outside Material Slot No. Plastic, Galvanized, Steel) Slot No. Fr Construction Record - Screen Slot No. Fr Uutside Material Slot No. Fr Unter found at Depth Kind of Water: Fresh Unter G9 (m/t) Gas Other, specify Water found at Depth Mater found at Depth Kind of Water: Fresh Water 147 (m/t) Gas Other, specify Water found at Depth Water of Water: Fresh Water 147 (m/t) Gas Other, specify Water found at Depth Water of Water: Fresh Water	□ Commercial □ Not used □ Test Hole □ Monitoring □ Cooling & Air Conditioning □ Depth (m/ft) □ Replacement Well □ Test Hole +2 58 180 □ □ Devatering Well □ Observation and/or Monitoring Hole □ ↓ 180 □ Observation and/or Monitoring Hole □ ↓ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	Pumping rate (<i>I/min / EM</i>) 20 Duration of pumping <u>hrs +</u> <u>min</u> Final water level end of pumping <u>14.8</u> If flowing give rate (<i>I/min / GPM</i>) Recommended pump depth (<i>m</i> (<i>I/min / GPM</i>) 20 Well production (<i>I/min / GPM</i>) 20 Please provide a map below follo	(m/ft) 4 13. 5 13. (m/ft) 10 14. 15 14. 20 14. 20 14. 25 14. 30 14. 40 14. 50 14. 60 14. 60 14. 50 5. 50	5 4 12 7 5 12 4 10 12 5 12 4 10 12 5 12 4 10 12 5 12 3 20 12 3 30 12 3 50 12 3 60 12'
□ Cable Tool □ Diamond □ Public □ Rotary (Conventional) □ Jetting □ Dirwing □ Boring □ Digging □ Livestock □ Air percussion □ Industrial □ Other, specify □ Other, specify □ Other, specify □ Other, specify □ Construction Record - Casing Industrial □ Air percussion □ Other, specify □ Other, specify □ Other, specify □ Construction Record - Casing Nall □ Inside Open Hole OR Material Wall □ Galvanized, Fibreglass, Concrete, Plastic, Steel) Thickness □ Construction Record - Screen Outside .188 □ Δ Δ Δ Open Hole .188 □ Δ Δ Δ □ Plastic, Galvanized, Steel) Slot No. □ Construction Record - Screen Outside Material □ Diameter (Plastic, Galvanized, Steel) Slot No. □ Construction Record - Screen Outside Slot No. □ Diameter (Plastic, Galvanized, Steel) Slot No. □ Contractor Record - Screen □ Outside Slot No. □ Contractor Slot No. F	□ Commercial □ Not used □ Test Hole □ Monitoring □ Cooling & Air Conditioning □ Depth (m/ft) □ Status of Well □ Depth (m/ft) □ Test Hole +2 ' 58' 180' □ □ Dewatering Well □ Dewatering Well □ Dewatering Hole □ Alteration (Construction) □ □ Abandoned, Insufficient Supply □ Abandoned, Poor Water Quality □ □ Other, specify □ □ □ Depth (m/ft) □ Diameter ested □ □ □ □ □ □ □ □ □ □ □ □ □	Pumping rate (<i>I/min / EM</i>) 20 Duration of pumping <u>hrs +</u> <u>min</u> Final water level end of pumping <u>14.8</u> ' If flowing give rate (<i>I/min / GPM</i>) Recommended pump depth (<i>rr</i> Recommended pump rate (<i>I/min / EM</i>) 20 Well production (<i>I/min / GPM</i>) 20 Well production (<i>I/min / GPM</i>) 20 Well production (<i>I/min / GPM</i>) 20 Please provide a map below follo	4 13. 5 13. (m/ft) 10 14. 15 14. 20 14. 20 14. 25 14. 30 14. 40 14. 50 14. 60 14. 50 14. 60 14. 50 14. 60 14. 50 14. 60 14. 50 14. 60 14. 50 14. 60 14. 50 14. 50 14. 60 14. 50 14. 50 14. 50 14. 5	5 4 12 7 5 12 4 10 12 5 12 4 10 12 5 12 4 10 12 5 12 3 20 12 3 30 12 3 50 12 3 60 12'
□ Cable Tool □ Diamond □ Public □ Rotary (Conventional) □ Jetting □ Diogsing □ Boring □ Digging □ Livestock □ Air percussion □ Industrial □ Other, specify □ Other, specify □ Other, specify □ Other, Specify □ Other, specify □ Other, specify □ Side Open Hole OR Material Wall Thickness □ Inside Open Hole OR Material Wall Thickness □ Construction Record - Casing Thickness (cm/in) Fr □ Galvanized, Fibreglass, Thickness (cm/in) Fr □ Galvanized, Fibreglass, Construction Record - Screen Slot No. Fr □ Outside Material 188 Slot No. Fr □ Construction Record - Screen Outside Slot No. Fr □ Outside Material Slot No. Fr □ Construction Record - Screen Outside Slot No. Fr □ Outside Material Slot No. Fr □ Contractor Record - Screen Outside Outside Integratin thicknes □ Material	□ Commercial □ Not used □ Test Hole □ Monitoring □ Cooling & Air Conditioning □ Depth (m/ft) □ Replacement Well □ Test Hole +2 ' 58' 180' □ □ Dewatering Well □ Dewatering Well □ Dewatering Well □ Deservation and/or Monitoring Hole □ Alteration (Construction) □ Abandoned, Insufficient Supply □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	Pumping rate (<i>I/min / EM</i>) 20 Duration of pumping <u>hrs +</u> <u>min</u> Final water level end of pumping <u>14.8</u> If flowing give rate (<i>I/min / GPM</i>) Recommended pump depth (<i>m</i> (<i>I/min / GPM</i>) 20 Well production (<i>I/min / GPM</i>) 20 Please provide a map below follo	4 13. 5 13. (m/ft) 10 14. 15 14. 20 14. 20 14. 25 14. 30 14. 40 14. 50 14. 60 14. 50 14. 60 14. 50 14. 60 14. 50 14. 60 14. 50 14. 60 14. 50 14. 60 14. 50 14. 50 14. 60 14. 50 14. 50 14. 50 14. 5	5 4 12 7 5 12 4 10 12 5 12 4 10 12 5 12 4 10 12 5 12 3 20 12 3 30 12 3 50 12 3 60 12'
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□ Cable Tool □ Diamond □ Public □ Rotary (Conventional) □ Jetting □ Dirving □ Livestoch □ Boring □ Digging □ Irrigation □ Industrial □ Other, spc □ Other, specify □ Other, Spc □ Other, spc □ Other, spc □ State Open Hole OR Material Wall Wall □ Inside Open Hole OR Material Wall Thickness □ Construction Record - Casing Industrial Other, spc □ Construction Record - Screen Outside Inside □ Outside Material Slot No. Fr □ Construction Record - Screen Outside Material Slot No. □ Outside Material Slot No. Fr □ Convinin (Plastic, Galvanized, Steel) Slot No. Fr □ Outside Material Slot No. Fr <tr< td=""><td>□ Commercial □ Not used □ Test Hole □ Monitoring □ Cooling & Air Conditioning □ Depth (m/ft) □ Replacement Well +2 58 180 □ □ Dewatering Well □ Observation and/or Monitoring Hole ↓ 180 □ Observation and/or Monitoring Hole ↓ Alteration (Construction) ↓ Abandoned, Insufficient Supply ↓ Abandoned, Poor Water Quality ↓ Abandoned, other, specify □ Other, specify □ Isin □ Si □ Si □ Si □ <t< td=""><td>Pumping rate (<i>I/min / EM</i>) 20 Duration of pumping <u>hrs +</u> 1 Final water level end of pumping <u>14.8</u> Recommended pump depth (<i>m</i> Recommended pump rate (<i>I/min / EM</i>) 20 Well production (<i>I/min / GPM</i>) 20 Well owner's Date Package Del information package</td><td>4 13. 5 13. 10 14. 15 14. 20 14. 25 14. 30 14.4 40 14.4 50 14.4 60 14.4 50 14.4 60 14.4 60 14.4 60 14.4 60 14.4 60 14.4 60 14.4 60 14.4 60 14.4 60 14.4 60 14.4 60 14.4 60 14.4 60 14.4 60 14.4 60 14.4 7 14.4 7 14.4 7 14.4 7 14.4 7 14.4 7 14.4 7 14.4 7 14.4 7 14.4 7 14.4</td><td>5 4 12 7 5 12 4 10 12 8 15 12 3 20 12 3 20 12 3 30 12 3 40 12 3 50 12 4 60 12' Dack.</td></t<></td></tr<>	□ Commercial □ Not used □ Test Hole □ Monitoring □ Cooling & Air Conditioning □ Depth (m/ft) □ Replacement Well +2 58 180 □ □ Dewatering Well □ Observation and/or Monitoring Hole ↓ 180 □ Observation and/or Monitoring Hole ↓ Alteration (Construction) ↓ Abandoned, Insufficient Supply ↓ Abandoned, Poor Water Quality ↓ Abandoned, other, specify □ Other, specify □ Isin □ Si □ Si □ Si □ <t< td=""><td>Pumping rate (<i>I/min / EM</i>) 20 Duration of pumping <u>hrs +</u> 1 Final water level end of pumping <u>14.8</u> Recommended pump depth (<i>m</i> Recommended pump rate (<i>I/min / EM</i>) 20 Well production (<i>I/min / GPM</i>) 20 Well owner's Date Package Del information package</td><td>4 13. 5 13. 10 14. 15 14. 20 14. 25 14. 30 14.4 40 14.4 50 14.4 60 14.4 50 14.4 60 14.4 60 14.4 60 14.4 60 14.4 60 14.4 60 14.4 60 14.4 60 14.4 60 14.4 60 14.4 60 14.4 60 14.4 60 14.4 60 14.4 60 14.4 7 14.4 7 14.4 7 14.4 7 14.4 7 14.4 7 14.4 7 14.4 7 14.4 7 14.4 7 14.4</td><td>5 4 12 7 5 12 4 10 12 8 15 12 3 20 12 3 20 12 3 30 12 3 40 12 3 50 12 4 60 12' Dack.</td></t<>	Pumping rate (<i>I/min / EM</i>) 20 Duration of pumping <u>hrs +</u> 1 Final water level end of pumping <u>14.8</u> Recommended pump depth (<i>m</i> Recommended pump rate (<i>I/min / EM</i>) 20 Well production (<i>I/min / GPM</i>) 20 Well owner's Date Package Del information package	4 13. 5 13. 10 14. 15 14. 20 14. 25 14. 30 14.4 40 14.4 50 14.4 60 14.4 50 14.4 60 14.4 60 14.4 60 14.4 60 14.4 60 14.4 60 14.4 60 14.4 60 14.4 60 14.4 60 14.4 60 14.4 60 14.4 60 14.4 60 14.4 60 14.4 7 14.4 7 14.4 7 14.4 7 14.4 7 14.4 7 14.4 7 14.4 7 14.4 7 14.4 7 14.4	5 4 12 7 5 12 4 10 12 8 15 12 3 20 12 3 20 12 3 30 12 3 40 12 3 50 12 4 60 12' Dack.

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C. Ontario Ministry of the Environment	A144873	Print Below)	Regulatior	V 903 Ontario W		ecorc
Measurements recorded in:			-	Pag	e	of
Well Owner's Information						
First Name Last Name / Organization 1384341 Or	ntario Limited (c/o C	E-mail Address avanagh Const				Constructed
Mailing Address (Street Number/Name)	Municipality	Province	Postal Code	Telephon	e No. (inc.	
9094 Cavanagh Road	Ashton	<u> </u>	KOA	ipy		
Well Location Address of Well Location (Street Number/Name) 1240 Old Prescott Road	Township		Lot	Concessi		
	Osgoode		P/L ·			Cada
County/District/Municipality Ottawa-Carleton	City/Town/Village Greely			Province Ontario	Postal	Code
UTM Coordinates Zone Easting Northing	Municipal Plan and Subl	lot Number		Other		
NAD 8 3 18 454433 501201 Overburden and Bedrock Materials/Abandonment Sealin		e back of this form)		TEST W	ELL #	3
General Colour Most Common Material	Other Materials	1	ral Description		Depl From	
Brown Sand		N			01	44'
Sand & Gravel	+ Boulder				44	481
Grey Limestone					48 -	127-
Grey Limestone	· · · · · · ·				127-	170-
Grey Limestone 4		one Mix			170-	
Grey Limestone •	L Sander	tone Mix			236 -	250 -
	•					
Annular Space Depth Set at (m(ft)) Type of Sealant Used	Values Disert	After test of well yield, v		Il Yield Testing Draw Down		covery
From To (Material and Type)	Volume Placed (m ³ (ft ³))	Clear and sand fr	ee	Time Water Lev	vel Time \	
58 48 Neat cement		Other, specify		(min) (mft) Static 15	(min)	(m(tt)) 57-7 %
48 0 Bentonite slurry	37.8			Level 22.		49.E
		Pump intake set at (m				41.8
		240 <	9	E		
Method of Construction V	Vell Use	Pumping rate (I/min /	SPM)	3 31.		37.5
	Commercial INot used Municipal Dewatering	Duration of pumping		4 34.		34.2
Rotary (Reverse) Driving Livestock	Test Hole Donitoring	1hrs + 0 m		5 35.	8 5	31.8
Air percussion	Cooling & Air Conditioning	Final water level end of	pumping (m/ft)	10 40.	5 10	24.5
Other, specify Other, specify		If flowing give rate (I/m	in / GPM)	15 45.	4 15	18.2
Construction Record - Casing Inside Open Hole OR Material Wall Depth (m)	t) XWater Supply	Recommended pump	depth (mft)	20 47.	3 20	15.6
Diameter (Galvanized, Fibreglass, (<i>cm/in</i>) Concrete, Plastic, Steel) (<i>cm/in</i>) From	To Replacement Well	150		25 48.	7 25	15.6
614" Steel .188" +2"	58 🖌 🗌 Recharge Well	Recommended pump	rate	30 50.	1 30	15.8
	SO Dewatering Well	14 Well production (I/min ,	600	40 52.	7 40	15.8
	Monitoring Hole	14	GF MIJ	50 55.	3 50	15.6
	(Construction)	Disinfected?		60 57.	7 60	15.6
Construction Record - Screen	Insufficient Supply		Map of We			
Outside Material Diameter (Plattine Columniand Stoot) Slot No.		Please provide a map b			back.	
(<i>cm/in</i>) (<i>Plastic, saverized, steel</i>) From	To Abandoned, other, specify	28	VOU.	1		
	Other, specify	Please provide a map b		1 4		
	Outor, opcony	W Dego		151	240	OLD TE RD
Water Details	Hole Diameter		4	4 PR	ESCOT	TRD
	Depth (m/) Diameter From To (cm/)		· akm	7		
Vater found at Depth Kind of Water: Fresh VUntested	0' 58 934	TH+'		$\left(\right)$		
(mft) Gas Other, specify Vater found at Depth Kind of Water: Fresh Untested	58 250 6/8"	1545	· Str.			
(<i>m/ft</i>)		10 A				
Well Contractor and Well Technician Inf Business Name of Well Contractor				I KOWN	t generation a	
Air Rock Drilling Co. Ltd.	Well Contractor's Licence No.		MCK	EOWN	$\sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum_{i=1}^{n} \sum_{i=1}^{n} \sum_{i=1}^{n} \sum_{i=1}^{n} \sum_{i=1}^{n} \sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum_{i=1}^{n} \sum_{i=1}^{n} \sum_{i=1}^{n} \sum_{i$	
Busipess Address (Street Nember/Name)-1	Municipality	Comments:				
Province Postal Code Business E-mail Address	, , , , , , , , , , , , , , , , , , ,	1 HP - 10 gpr	n @ 150'			
Province Postal Code Business E-mail Address ON KDA 220 air-rock@	sympatico.ca	Well owner's Date Pac	kage Delivered	Minis	try Use C	Dnly
us.Telephone No. <i>(inc. area code)</i> Name of Well Technician (Last N 1813838211701 1 1 Grant, Andrew	lame, First Name)	information package	JASIMIQBO	Audit No.		
Vell.Technician's Licence No. Signature of Technician and/or Contrac	tor Date Subinitied	Date Wo	rk Completed		155	TAQ
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-	s (Street Number/Na Power Road	ime)		Municipality Gloucester	Province	Postal Code		none No. (in	nc. area code)
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	Il Location (Street Nu	imber/Name)		Township		Lot		ession A	
County/District	Hiram Drive			Osgoode City/Town/Village		E/L	Province		tal Code
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	es Zone Easting	and the second		Municipal Plan and Subl	ot Number		Other		
NAD 8	1 0 VA 1 1 1 1990 0 1		1739 Sealing Rec	4m-351 ord (see instructions on the	e back of this form)		<u>P/L 6</u>		
General Colou	r Most Com	mon Material	01	ther Materials	Ge	neral Description	ו	D From	epth (<i>m/ft)</i> To
		Sand		jan serien en et et til Maria			unanan jeren zalak jer	0 /	10'
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Grey	er égyenginninger meh	Limestone	en ja maantiise aan joop tiisen aantiise						1. 83 1
Grey		Limestone	en terretaria de la composición de la c			generation officiality	genergen ster om er		. 94
Grey	ar gun Bareletinge, wire	Limestone	States and see			Den sezere estépantelet	garderer (* 1999)	94	101
						đ			
		Annular Space	•			Results of W	ell Yield Tes	ting	T
Depth Set at From	(<i>m(fi</i>) To	Type of Sealant Us (Material and Type)		Volume Placed	After test of well yie		Time Wate		Recovery Water Level
	······	ement			Other, specify		(min) (n	n/ft) (min,	
58	0' Bentor	nite slurry		29.4	If pumping discontin	nued, give reason:	Static Level	8.91	11'
		ang	and an	in all and the second in the second secon All second se	X		1	10.9	8.9
			·····		Pump intake set at	(mkt)	2	10.9 2	8.9
					90 Pumping rate (I/mir	(CDM)	3	10.9 3	8.9
Method Cable Tool	of Construction	J Public	Well U		20	(متعليهات ١٠)		10.9 4	8.9
Rotary (Conv	entional)	Domestic	🛄 Municip	bal Dewatering	Duration of pumpir	•		den de la	
Rotary (Rever Boring	rse) Driving Digging	Livestock	Cooling	ole Monitoring & Air Conditioning	Final water level end	-			8.9
Air percussion		Industrial			11			11 10	8.9
	Construction R		<i>ny</i>	Status of Well	If flowing give rate	(I/min / GPM)	15	11 15	8.9
	pen Hole OR Material	Wall D	epth (<i>mft</i>)	Water Supply	Recommended put	mp depth (mt)	20	11 20	8.9
	alvanized, Fibreglass, oncrete, Plastic, Steel)	Thickness (cm/in) From	То	Replacement Well Test Hole	80'		25	1 25	8.9
614" 5	iteel	188 +2	66	Recharge Well	Recommended put (I/min / GPM)	mp rate	30	11 30	8.9
1." 0)pen Hole	66	101	Dewatering Well Observation and/or	20 Well production (I/n		40	40	8.9
				Monitoring Hole	20+		50	50	8.9
				(Construction)	Disinfected?		60	1 60	8.9
	Construction Re	ecord - Screen	<u></u>	Abandoned, Insufficient Supply		Map. of W/	ell Location		0.0
Outside Diameter	Mąterial	1	epth (<i>m/ft</i>)	Abandoned, Poor Water Quality	Please provide a ma	p below following	instructions on	the back.	
(Cm/in) (Pla	stic, Galvanized, Steel)	From	То	Abandoned, other, <i>specify</i>		334 MANUER REIUER			
		The second second			1 26	B° C.			
in the second second			and the second second	Other, <i>specify</i>	2	M. VER	Friday		
	Water Det			lole Diameter	the	Rt/ A	150		
	Depth Kind of Water	X		th (<i>m/ft)</i> Diameter To (<i>cm/in</i>)		11	Ċ		
	Gas Other, <i>spei</i> Depth Kind of Water					1.44	VA.		
83 (m/ft)	Gas Other, spec	cify		66 93/4"		1.44			
CONT 1	Depth Kind of Water		ed 6(<u>101 6''</u>					
	Gas Other, spec	cify r and Well Technic				<u>\ \</u>	O - A	-N	
	of Well Contractor	and wen rechfil	and the second sec	Il Contractor's Licence No.	PAN	RKWAY	Korl		
the second s	Drilling Co. Ltd.			1119		· · ·		-	<u></u>
0059 Fran	s (Street Number/Nar iktown Road, RH	ne) (#1	Mu	nicipality Richmond	Comments: 1/2 HP - 10	GPM - SET	m on ET	. 	
rovince	Postal Code	Business E-mail A			114 FIF - 10	SEW-SEI	wy JU F I		
	KOA 270		ock@symp		Well owner's Date	Package Delivered	2014/05/07/05/07/05/07/05	inistry Us	e Only
818888011	n I I I I	ne of Well Technician Purcell, Shar	ነግለግ			2013 0 5	Audit N		5176
/ell Technician's L	icence No. Signature	of Technician and/or	Contractor Dat	e Submitted 0.8, 30	Date Date	Work Completed		- L U .	
14164	© Queen's Printer for Onta	rad	1	Y Y M M D D Ministry's Copy	□ No			<u>)CT 1 (</u>	2012
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Follow the **COVID-19 restrictions and public health measures (https://covid-**<u>**19.ontario.ca/public-health-measures)** and **book your appointment to get vaccinated** (https://covid-19.ontario.ca/book-vaccine/).</u>

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Menu

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 <u>Open Data catalogue</u> (<u>https://data.ontario.ca/dataset/well-records)</u>.

<u>Go Back to Map ()</u>

Well ID

Well ID Number: 7228021
Well Audit Number: *Z166988*Well Tag Number: *A128102 This table contains information from the original well record and any subsequent updates.*

Well Location

Address of Well Location

6823 HIRAM DRIVE

Township

OSGOODE TOWNSHIP

Lot

Concession

County/District/Municipality	OTTAWA-CARLETON
City/Town/Village	GREELY
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 18 Easting: 454579.00 Northing: 5011728.00

Municipal Plan and Sublot Number

Other

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
	SAND	GRVL	BLDR	0 ft	52 ft
GREY	LMSN			52 ft	87 ft
GREY	LMSN			87 ft	135 ft
GREY	SNDS			135 ft	155 ft
GREY	SNDS			155 ft	162 ft

Annular Space/Abandonment Sealing Record

Depth	Depth	Type of Sealant Used	Volume
From	То	(Material and Type)	Placed

48 ft 0 ft BENTONITE SLURRY 58 ft 48 ft NEAT CEMENT

Method of Construction & Well Use

Method of Construction Well Use

Air Percussion

Domestic

Status of Well

Water Supply

Construction Record - Casing

Inside Diameter	Open Hole or material	Depth From	
6.25 inch	STEEL	-2 ft	58 ft
5.9375 inch	OPEN HOLE	58 ft	162 ft

Construction Record - Screen

Outside	Material	Depth	Depth
Diameter		From	То

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 1119

Results of Well Yield Testing

After test of well yield, water was

If pumping discontinued, give reason	
Pump intake set at	150 ft
Pumping Rate	5 GPM
Duration of Pumping	1 h:0 m
Final water level	114.5 ft
If flowing give rate	
Recommended pump depth	140 ft
Recommended pump rate	5 GPM
Well Production	
Disinfected?	Y

Draw Down & Recovery

Draw Down Time(min)	Draw Down Water level	Recovery Time(min)	Recovery Water level
SWL	15.5 ft		
1	19.417 ft	1	96.583 ft
2	28.5 ft	2	79.25 ft
3	33.167 ft	3	72.167 ft
4	36.417 ft	4	69.167 ft
5	40.583 ft	5	66.417 ft

Map: Well records | ontario.ca

10	55.333 ft	10	50.667 ft
15	63.667 ft	15	36.333 ft
20	71.583 ft	20	23.167 ft
25	78.5 ft	25	15.5 ft
30	87.25 ft	30	15.5 ft
40	94.5 ft	40	15.5 ft
45		45	
50	103.583 ft	50	15.5 ft
60	114.5 ft	60	15.5 ft

Water Details

Water Found at Depth	Kind
155 ft	Untested

Hole Diameter

Depth From	Depth To	Diameter
0 ft	58 ft	9.75 inch
58 ft	162 ft	5.9375 inch

Date Well Completed: August 13, 2014

Date Well Record Received by MOE: September 22, 2014

Related

How to use a Ministry of the Environment map (/page/how-use-ministry-environment-map#wells)

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

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

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Ontario Ministry of the Environment	₩ Tag#: A1448	Int Delow)	N n 903 Ontario W		ecord
Measurements recorded in: Metric Mimperial			Page	e	of
Well Owner's Information ' First Name Last Name / Organiza	tion	E-mail Address			
	Ontario Limited (c/o Ca			Well C 🗌 🗍	onstructed I Owner
Mailing Address (Street Number/Name)	Municipality	Province Postal Code		No. (inc. e	area code)
9094 Cavanagh Road	Ashton		<u>180 </u>		
Address of Well Location (Street Number/Name)	Township	Lot	Concessio	on	
1240 Old Prescott Road	Osgoode	P/L4		Dt-1	0
County/District/Municipality	City/Town/Village		Province Ontario	Postal	Lode
UTM Cooldinates Zone Leasting Northing	Municipal Play and Subl	ot Number	Other		
NAD 8 3 18 455162 5012 Overburden and Bedrock Materials/Abandonment	266	- hand a faile from t	TEST WE	LL # 5	L
General Colour Most Common Material	Other Materials	General Description	<u>ו</u>		n (m(<u>t</u> t))
				From	10
Sand	d Sand	<u></u>		1	30
Gravel	A Sand			30	58
		<u> </u>	<u>ale antiper da cara cara cara da c</u>	58	141
Grey	9 Grey Sandsta	····.		141	158
Sandstone	<u></u>	er en	<u>ening di Midro ang b</u>	158 (291
Grey Sandstone	17 - 18	en en filtere an en proposition de la p		291 ′	297
· · · ·					
Tactit	01 # 5				
Iest W					
Annular Space Depth Set at (n(t) Type of Sealant Used	d Volume Placed	Results of Weil yield, water was:	ell Yield Testing	Consequences of the second second	covery
From To (Material and Type)		Clear and sand free	Time Water Lev	el Time V	Vater Level
132 122 Neat cement	9.36	Other, specify	(<i>min</i>) (<i>m</i> / <i>ft</i>) Static 33-	(min) 84	(m/ft)
122 ' 0 ' Bentonite slurry	10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	If pumping discontinued, give reason:	Level		166
		$\parallel \chi$	1 42.7	in sector of	152.3
		Pump(intake set at (nf#t))	2 49.5	2	1453
		Pumping rate (Ilmin GPM)	3 55.2	3	139.5
Method of Construction	Well Use	12	4 60.8	4	1335
Rotary (Conventional) Jetting Domestic	Municipal Dewatering	Duration of pumping			
Rotary (Reverse) Driving Livestock Boring Digging Irrigation	Test Hole Monitoring Cooling & Air Conditioning	hrs + min Final water level end of pumping (m@)			128.0
Air percussion		1975 - 1986 - 1987 - 1987 - 1987 - 1987 - 1987 - 1987 - 1987 - 1987 - 1987 - 1987 - 1987 - 1987 - 1987 - 1987 -	89.3		104.7
Other, specify Other, specify Other, specify		If flowing give rate (Ilmin I GPM)	15 107.	3 15	85.8
Construction Record - Casing Inside Open Hole OR Material Wall De	pth (<i>m/ft</i>) X Water Supply	Recommended pump depth (mbft)	20 121.	8 20	70.9
Diameter (Galvanized, Fibreglass, Thickness (cmlin) Concrete, Plastic, Steel) (cmlin) From	To Replacement Well	250'	25 133.	3 25	59
711	Test Hole	Recommended pump rate	30 143	30	50
	LI Dewatering weil	12		o 40	
6 Open Hole 132	297 Observation and/or Monitoring Hole	Well production (Ilmir GPM)	100.		38
	Alteration (Construction)	Disinfected?	102.	<u> </u>	33.8
	Abandoned, Insufficient Supply	Yes No	⁶⁰ 168	60	33.8
Construction Record - Screen	Abandoned, Poor	Map of W Please provide a map below following	ell Location	back	
Diameter (Plastic Calvanized Steel) Slot No.	pth (<i>m/ft</i>) Water Quality To Abandoned, other,				
(cm/in) (From	specify	rest		١	10
	Other, specify	(NOO)	150	妆	1240
		*5/ 0	AL	7 101	D
Water Details	Hole Diameter	Nº G	VII	-12	Woll
Water found at Depth Kind of Water: Fresh Untest	From To (cm/in)		OX XXX	$\leq p $	ESCO
Water found at Depth Kind of Water: Fresh Untest	ed 0 132 9 ³ /4"	La Trence HI	×		ZOAD
(m/ft) Gas Other, specify		XXXX	.IKAY	V . 1	F~
Water found at Depth Kind of Water: Fresh Untest	ed 133 297' 6"		γ		
(m/ft) Gas Other, specify		Test NOOD #5 G	4.		
Business Name of Well Contractor	Well Contractor's Licence No.		WIN-A.	VEL	
Air Rock Drilling Co. Ltd.	1119	INCLES	WNDRI	v-1	
Business Address (Street Number/Name) 6659 Franktown Road, RR#1	Municipality Richmond	o o minoritori	*	7.24.	
Province Postal Code Business E-mail A		1 HP - 10 GPM SET @:		NUTH?	>
ON KOA 2ZO air-ro	ck@sympatico.ca	Well owner's Date Package Delivere		stry Use	Only
Bus.Telephone No. (inc. area code) Name of Well Technician		package	Audit No.	070	0.4
6138382/170 Hanna, Jerem Well Technician's Licence No. Signature of Technician and/or	Contractor Date Submitted	Date Work Completed		.670	24
Well Technician's Licence No. Signature of Technician and Tor			D19 Received	<u>ncii 2</u>	9 2014
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OP Ontar	the Envir			A177797		Regulatio	n 903 C			
Measurements rec Well Owner's Ir		tric An per	al					Page		of
First Name		t Name / Organ	ization Construct	ion 1td	E-mail Addr	ress	<u></u>	<u></u>		Constructe
Mailing Address (St	treet Numbrer/Name)			Municipality	Province	Postal Code		Telephone I	*	ell Owner area code
811 Kenn Well Location	edy Kood			Kemptville	ON	KOG	110			affermand data
	cation (Street Numbe	er/Name)		Township Osgoode		Lot P/L S		Concession 4	n n	9999999999 1
County/District/Mun			į	City/Town/Village			Provin	gete Tala	Postal	Code
Ottawa-C	arlefon	• • • • • • • • • • • • • • • • • • •		Greely			Onta			4 manufacture of
UTM Coordinates Z NAD 8 3	18 435080) Northing	2157	Municipal Plan and Subl 4M-351			Other Par	t Block	: 1	
Overburden and I	Bedrock Materials Most Common			ord (see instructions on the		General Description	Sanna (Serie) S		Dep	th (m R)
	WOSt Common	Clay		a Sand		deneral Description			From	55
Grey		Limestone		\\ \.\ \.\ \.\ \.\ \.\ \.\ \.\ \.\ \.\	· · ·			· · · · · · · · · · · · · · · · · · ·	55 ′	137 '
Grey		Limestone							137 •	170 1
Grey & White		Sandstone				*****		1	170	194 1
Grey & White		Sandstone							194 '	200 '
			No. 941 74000 1000 10 10 10 10 10 10 10 10 10 10 1			* 4, 5, 5, 4, 4				
				·····						
		Annular Spac	a Waren er Wattere er tre			Results of We	all Yiald	d Testing		
Depth Set at (m	λ Τν	/pe of Sealant U	sed	Volume Placed	After test of well y	yield, water was:	Dra	aw Down		covery
B17 51	Neat cemi	laterial and Type ent	.	10.9	Other, spec	and free ify Not tester		Water Leve (m/ft)	(min)	Water Le (m/ft)
51 /	Bentonite	slurry		29:4		ntinued, give reason:	Static Level		2"	58:8
	1							20.4		
	an a		*****		<u> X</u>	1997///1991	1	1.1	1	
	un en en en la serie de la auxonometries de la serie d				Pump intake set	1997///1991	1	24,4	2	39
Method of C	Zonstruction		Well U	Se	Pump intake set	t at (m @)		24.4		39 34,
Cable Tool	Construction	Public	Well U	ercial 🗌 Not used	Pump intake set	t at (m G) min / GCAD	2	24,4 28.3 31.8	2	39 34. 30.
Cable Tool Rotary (Convention Rotary (Reverse)	Diamond nal) Jetting	Livestock	Comm Municip	ercial Not used pal Dewatering ole Monitoring	Pump intake set 180 Pumping rate (// 8 Duration of pum 1 hrs +	t at (m &) min / C @) ping Omin	2 3 4	24,4 28.3 31.8 34.5	2	39 34. 30. 27.
Cable Tool Rotary (Convention Rotary (Reverse) Boring Air percussion	Diamond nal)	Livestock	Commi Municij Test Ho Cooling	ercial 🔲 Not used pal 🗌 Dewatering	Pump intake set 180 Pumping rate (// 8 Duration of pum 1 hrs +	t at (m &) min / CCDD	2 3 4	24.4 28.3 31.6 34.5 43.8	2	39 34. 30. 27. 17.
Cable Tool Rotary (Convention Rotary (Reverse) Boring Air percussion Other, <i>specify</i>	Diamond nal) Jetting Driving Digging	Comestic Livestock Irrigation Industrial Other, spi	Commi Municij Test Ho Cooling	ercial INot used pal Dewatering ole IMonitoring g & Air Conditioning	Pump intake set 180 Pumping rate (// 8 Duration of pum 1 hrs + Final watepleyed	t at (m G) min / C ping O min end of pumping (m/11)	2 3 4 5	24.4 28.3 31.6 34.5 43.8 49	2 3 5 10 15	39 34, 30 27, 17, 14
Cable Tool Rotary (Convention Rotary (Reverse) Boring Air percussion Other, specify Inside Open H	Diamond nal) Jetting Driving Digging	Comestic Livestock Irrigation Industrial Other, spi	Commi Municij Test Ho Cooling	ercial Not used pal Dewatering ole Monitoring	Pump intake set 180 Pumping rate (// 8 Duration of pum 1 hrs + Finat watepleyel of 58.8 If flowing give rat	t at (m G) min / C ping O min end of pumping (m/11)	2 3 4 5 10	24.4 28.3 31.6 34.5 43.8 49 52.3	2 3 4 5 10	39 34. 30. 27. 17. 14 13.
Cable Tool Color Convention Convertion Converse	Diamond nal) Jetting Driving Digging Construction Reco Hole OR Material hized, Fibreglass, Th te, Plastic, Steel) (Comestic Livestock trigation other, spi ord - Casing Wall hickness (cm(n) Free	Comm Municit Test He Cooling acify Depth (m	ercial Not used pal Dewatering ole Monitoring g & Air Conditioning Status of Well Water Supply Replacement Well	Pump intake set 180 Pumping rate (# Duration of pum 1 hrs + Finat watepleyed of 58.8 If flowing give rat Recommended 1 140	t at (m G) min / C ping min end of pumping (m/ft) ite (l/min / GPM) pump depth (m C)	2 3 4 5 10 15	24.4 28.3 31.8 34.5 43.8 49 52.3 54.5	2 3 5 10 15	39 34. 30. 27. 17. 14 13.
Cable Tool Cable Tool Rotary (Convention Rotary (Reverse) Boring Air percussion Other, specify Inside Inside Calvar Concre Concr	Diamond nal) Jetting Driving Digging Digging	Vall Wall hickness (Commu Municit Test He Cooling ecify Depth (m@) m To 2 61	ercial Not used pal Dewatering ole Monitoring g & Air Conditioning. Status of Well Status of Well Q Replacement Well Test Hole Recharge Well	Pump intake set 180 Pumping rate (# Duration of pum 1 hrs + Finat watepleyed of 58.8 If flowing give rat Recommended 1 140	t at (m G) min / GCD ping Omin end of pumping (m/ft) te (Vmin / GPM)	2 3 4 5 10 15 20	24.4 28.3 31.6 34.5 43.8 49 52.3 54.5 55.8	2 3 4 5 10 15 20	34.3 30.3 17.3 14 13.3 13.3
Cable Tool Cable Tool Rotary (Convention Rotary (Reverse) Boring Cair percussion Other, specify Inside Inside Concre Conc	Diamond nal) Jetting Driving Digging Construction Reco Hole OR Material hized, Fibreglass, Th te, Plastic, Steel) (Comestic Livestock trigation other, spi ord - Casing Wall hickness (cm(n) Free	Commi Municit Test He Cooling acify Depth (m@) To 2.1 61.1	ercial Not used pal Dewatering ole Monitoring g & Air Conditioning Status of Well Water Supply Replacement Well Recharge Well Dewatering Well Observation and/or	Pump intake set 180 Pumping rate (// 8 Duration of pum 1 hrs + Finat wateolevel of 58.8 If flowing give rat \$ Recommended 140 Recommended (//min / S ¹ /W)	t at (m min / C ping min end of pumping (m/fi) ite (l/min / GPM) pump depth (m pump rate	2 3 4 5 10 15 20 25	24.4 28.3 31.6 34.5 43.8 49 52.3 54.5 55.8 55.8 56.9	2 3 4 5 10 15 20 25	39 34, 30, 27, 17, 14 13, 13, 13, 13,
Cable Tool Cable Tool Rotary (Convention Rotary (Reverse) Boring Cair percussion Other, specify Inside Inside Concreter (Galvar Concreter Concrete	Diamond nal) Jetting Driving Digging Digging	Vall Wall hickness (Commu Municit Test He Cooling ecify Depth (m@) m To 2 61	ercial Not used pal Dewatering ole Monitoring g & Air Conditioning: Status of Well Vater Supply Replacement Well Test Hole Recharge Well Dewatering Well Observation and/or Monitoring Hole Alteration	Pump intake set 180 Pumping rate (// 8 Duration of pum 1 hrs + Final wateolevel of 58.8 If flowing give rat 58.8 If flowing give rat Recommended (//min / SPW) Well production	t at (m min / C ping min end of pumping (m/fi) ite (l/min / GPM) pump depth (m pump rate	2 3 4 5 10 15 20 25 30	24.4 28.3 31.6 34.5 43.8 49 52.3 54.5 55.8 56.9 58	2 3 4 5 10 15 20 25 30	39 34. 30. 27. 17. 14 13. 13. 13. 13.
Cable Tool Cable Tool Rotary (Convention Rotary (Reverse) Boring Cair percussion Other, specify Inside Diameter (Calvar Concre Concre Concre Cat	Diamond nal) Jetting Driving Digging Digging	Vall Wall hickness (Commu Municit Test He Cooling ecify Depth (m@) m To 2 61	ercial Not used pal Dewatering ole Monitoring g & Air Conditioning Status of Well Water Supply Replacement Well Test Hole Recharge Well Dewatering Well Observation and/or Monitoring Hole Alteration (Construction) Abandoned,	Pump intake set 180 Pumping rate (// 8 Duration of pum 1 hrs + Finat wateolevel of 58.8 If flowing give rat \$ Recommended 140 Recommended (//min / S ¹ /W)	t at (main min / CMD min end of pumping (m/ft) te (l/min / GPM) pump depth (main pump rate	2 3 4 5 10 15 20 25 30 40	24.4 28.3 31.6 34.5 43.8 49 52.3 54.5 55.8 55.8 56.9	2 3 4 5 10 15 20 25 30 40	39 34. 30. 27. 17. 14 13. 13. 13. 13. 13.
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	ocation (Street Number/Name)		Township Osgoode		PL	4	Concession Z	tS.	
County/District/M			City/Town/Village			Provin	се	Postal	
	-Carleton Zone, Easting , Northing		Greely Municipal Plan and Suble	ot Number		Onta Other	ario		
UTM Coordinates NAD 8 3		1876	Municipal Fian and Subi	or number		Other			
	Bedrock Materials/Abandonment		cord (see instructions on the	ə back of this form)					
General Colour	Most Common Material	0	Other Materials	Gene	ral Description	l		Dept From	h (<i>m#t)</i> To
	Sand	9	Clay					0	28
	Sand & Gr	avel	°≁ Boulder	5				28 (54 '
Grey	Limestone							54 '	143
Grey	Sandstone							143 '	161
Grey	Sandstone							161′	232′
Grey	Sandstone							232′	247′
Grey	Sandstone	en de la composition		s chian				247	2601
	Annular Space				Results of We	ell Yiel	d Testing		
Depth Set at (mi From To	· · · · · · · · · · · · · · · · · · ·	ed	Volume Placed	After test of well yield,			aw Down Water Level	······	ecovery Water Level
64 ' 54			21.8	Other, specify	Not teste	d(min)	(m/ft)	(min)	(m/ft)
54 0	/ Bentonite slurry		16.8	If pumping discontinue	ed, give reason:	Static Level	26'6"		86.6 ″
	•					1	35.5	1	60
				Pump intake set at (r	nD	2	41.3	2	50.8
				Pumping rate (I/min /	COM	3	45.6	3	45.6
	f Construction	Well		20		4	49.2	4	42.2
Cable Tool	Diamond Diamond Diamond Upblic	Comr		Duration of pumping		5	52.1	5	39.5
Rotary (Reverse Boring		Cooli	Hole Monitoring	Final water level end o					
Air percussion	Industrial		ig a far conditioning	86'6"	r partiping (ring	10	61.3	10	33
Other, specify	Other, spec	ify		If flowing give rate (I/r	nin / GPM)	15	66.6	15	27
Inside Oper	Construction Record - Casing n Hole OR Material Wall D	epth (m/#)	Status of Well	Recommended pump	depth (no.(ft))	20	69.9	20	26.6
	vanized, Fibreglass, Thickness crete, Plastic, Steel) (crrkin) Fron	ו To	Replacement Well	200'	1 1 4	25	72.3	25	28.6
614" St	eel .188 ^{°(} +:	2 64		Recommended pump	o rate	30	74.5	30	26.6
	pen Hole 64		Dewatering Well Observation and/or	001		40	78.7	40	26.6
			Monitoring Hole	Well production (I/min		50	82.7	50	26.6
			Alteration (Construction)	Disinfected?		60	86.6		26.6
			Abandoned, Insufficient Supply	XVes No			l	00	
Outside	Construction Record - Screen	epth (<i>m/ft</i>)	Abandoned, Poor Water Quality	Please provide a map	Map of We below following			ck.	
Diameter (cm/in) (Plastic	Material D c, Galvanized , Steel) Slot No. Fron		Abandoned, other,		Ū				
			Other, <i>specify</i>						
	Water Details		Hole Diameter			Λ			
Water found at De	epth Kind of Water: Fresh		epth (m/ft) Diameter) j	KN			
	Gas Other, specify	From	To (cm/in)				7		
727	epth Kind of Water: Fresh Mintes	ted	0" 64 93/4"	()	VE	11		2	
	epth Kind of Water: Fresh Zontes	ted	84 260 6"	300	1.58'	41	/ $>$	20	
24-7 (m) (m)	Gas Other, specify				PORT	S.	- \	Aice Por	
Business Name of	Well Contractor and Well Techni		ation Vell Contractor's Licence No.		ti PAN	JUE		18,	
	rilling Co. Ltd.	v	1119		CP V			. 6	
	(Street Number/Name), (town Road, RR#1	N	^{Aunicipality} Richmond	Comments:					
Province ON	Postal Code Business E-mail								~
Bus.Telephone No.	(<i>inc. area code</i>) Name of Well Technicia	n (Last Name		information package	ackage Delivered	- IF	Ministr Audit No.Z		only 2618
	Hanna, Jere		ate Spemitted 10 30	Date W	ork Completed		4		
T3638	7 Kenny	\geq		No	2 015 10 Y Y M M I	the second se	Rodeived 1	72	015
)506E (2007/12) © (Queen's Printer for Ontario, 2007		Ministry's Copy	exercise the terror detailed with the Research of the Research of the Research of the Research of the Research	maren inconstant in the constant of the consta	I Li			



Address of Well Location (Street Number/Name)

6820 McKeown Drive

Tag#: A 229022 Print Below) A229022

> Township Osgoode

Lot

P/L 4

County/District/Municipality City/Town/Village Postal Code Province Ottawa-Carleton Greely Ontario UTM Coordinates Zone , Easting Northing Municipal Plan and Sublot Number Other 18 454770 5011553 4M-351 Part Block 6 nad | 8 | 3 | Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on the back of this form) Depth (mff) General Colour Most Common Material Other Materials General Description From 10 Clay 0 a Boulders 10 58 Gravel 58 (151/ Grey Limestone 209 151 Sandstone Grey Sandstone 209/ 213/ Grey 213 220Grey Sandstone **Results of Well Yield Testing** Annular Space Recovery Type of Sealant Used Draw Down Depth Set at (m/) From To After test of well vield, water was: Clear and sand free (min) Volume Placed (*m³/t*© 10.9 From Time Water Level Time Water Level (Material and Type) 587 (m/ft) 51.1 6B7 Neat cement (m/ft) (min) Static Level 235" If pumping discontinued, give reason: 18.8 581 σ Bentonite slurry 30 32.5 1 1 ntake set at (m@) 180 33.1 28.9 Pump inta 2 2 35.4 27.3 3 3 Pumping rate (1/min (CPM) Well Use Method of Construction 37 28.7 Duration of pumping 4 4 □ Not used Cable Tool []] Diamond Public Commercial Somestic 26.4 Rotary (Conventional) Jetting Municipal Dewatering 38.3 1 hrs + 5 5 Livestock Rotary (Reverse) Driving Test Hole Monitoring 41.5 25.2 Final water level end of pumping (m/ft) 51.1 % Boring Irrigation Cooling & Air Conditioning Digging 10 10 Air percussion 🗌 Industrial 43.1 24.2 Other, specify 15 15 If flowing give rate (I/min / GPM) 44.2 23.5 **Construction Record - Casing** Status of Well 20 20 Water Supply Depth (m@ Recommended pump depth (m. Inside Open Hole OR Material Wall 45.2 23.5 Diameter Thickness (Galvanized, Fibreglass, Concrete, Plastic, Steel) 25 25 14N То From (cm/10) (cm/®) Test Hole Recommended pump rate 46.1 23.5 Steel .188 +2 / 56/ 30 30 Recharge Well 5/4" (I/min / GBM) Dewatering Well 209 23.5 47.8 Well production (Vmin CPM) 66 ' 220 40 Open Hole 4Ĥ 6" Observation and/or 49.4 23.5 Monitorina Hole 50 50 Alteration ted? 23.5' 51.1 (Construction) 60 60 X No res Abandoned, Insufficient Supply Map of Well Location **Construction Record - Screen** Abandoned, Poor Water Quality Please provide a map below following instructions on the back. Outside Deoth (m/ft) Material Slot No. Diameter Abandoned, other, (Plastic Galvanized Steel) То (cm/in) specify # 6820 MCKEOWN DRIVE Other, specify Water Details Hole Diameter Water found at Depth Kind of Water: Fresh Kintested Depth (m/ft) Diameter 209 (m/t) Gas Other, specify From (cm/in) Allan 93/4 ⁄ 0 Water found at Depth Kind of Water: Fresh Statested 66 250' (m/🚺 🗍 Gas 🗌 Other, specify

 Ar3
 (m/10) □ Gas
 □ Other, specify

 Water found at Depth
 Kind of Water:
 □ Fresh
 □ Untested

 66′ 220 6" (m/ft) Gas Other, specify 0.1KM Well Contractor and Well Technician Information Business Name of Well Contractor Air Rock Drilling Co. Ltd. Well Contractor's Licence No Busiess Area Stor Rubber Report Municleannond Comments: 1/2 HP - 10 GPM SET @ 140 FT Province Business E-mail Address air-rock@sympatico.ca Postal Code Well owner's information Date Package Delivered Ministry Use Only Audit No. 2262386 (inc. area code) Name of Well Technician (Last Name, First Name) Bus.Telephone No. (6138682170 package Hanna, Jeremy delivered Striggers Licence No. Signature of Technician and/or Contractor Date Submitted OB Yes Date Work Completed 18 28 OCT 1: 3: 2017 🛄 No RON Ò YYYYMMDD MIM D $\overline{\mathbb{Q}}$ Received © Queen's Printer for Ontario, 2014 0506E (2014/11) Ministry's Copy

Follow the **COVID-19 restrictions and public health measures (https://covid-**<u>**19.ontario.ca/public-health-measures)** and **book your appointment to get vaccinated** (https://covid-19.ontario.ca/book-vaccine/).</u>

♥-♥-

(/page/government-ontario)

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Menu

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 <u>Open Data catalogue</u> (<u>https://data.ontario.ca/dataset/well-records)</u>.

<u>Go Back to Map ()</u>

Well ID

Well ID Number: 7310034Well Audit Number: *Z262192*Well Tag Number: *A229069This table contains information from the original well record and any subsequent updates.*

Well Location

Address of Well Location

1314 SOUTH BEACH BLVD

2/23/22, 9:14 AM Township	Map: Well records ontario.ca
Lot	004
Concession	CON 04
County/District/Municipality	OTTAWA-CARLETON
City/Town/Village	GREELY
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 18 Easting: 454482.00 Northing: 5012159.00

Municipal Plan and Sublot Number

Other

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	
	SAND	GRVL		0 ft	44 ft
GREY	LMSN			44 ft	95 ft
GREY	LMSN			95 ft	116 ft
GREY	LMSN			116 ft	134 ft
GREY	LMSN			134 ft	140 ft

Annular Space/Abandonment Sealing Record

Depth	Depth	Type of Sealant Used	Volume
From	То	(Material and Type)	Placed

40 ft	0 ft	BENTONITE SLURRY 21
50 ft	40 ft	NEAT CEMENT 12.5

Method of Construction & Well Use

Method of Construction Well Use

Air Percussion

Domestic

Status of Well

Water Supply

Construction Record - Casing

Inside Diameter	Open Hole or material	Depth From	
6.25 inch	STEEL	-2 ft	50 ft
6 inch	OPEN HOLE	50 ft	140 ft

Construction Record - Screen

Outside	Material	Depth	Depth
Diameter		From	То

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 1119

Results of Well Yield Testing

After test of well yield, water was

If pumping discontinued, give reason			
Pump intake set at	80 ft		
Pumping Rate	20 GPM		
Duration of Pumping	1 h:0 m		
Final water level	7.333 ft		
If flowing give rate			
Recommended pump depth	80 ft		
Recommended pump rate	20 GPM		
Well Production			
Disinfected?	Y		

Draw Down & Recovery

Draw Down Time(min)	level	Recovery Time(min)	Recovery Water level
SWL	6 ft		
1	7 ft	1	6 ft
2	7 ft	2	6 ft
3	7.1 ft	3	6 ft
4	7.1 ft	4	6 ft
5	7.1 ft	5	6 ft

https://www.ontario.ca/page/map-well-records

Map: Well records | ontario.ca

10	7.1 ft	10	6 ft
15	7.1 ft	15	6 ft
20	7.1 ft	20	6 ft
25	7.1 ft	25	6 ft
30	7.1 ft	30	6 ft
40	7.1 ft	40	6 ft
45		45	
50	7.1 ft	50	6 ft
60	7.1 ft	60	6 ft

Water Details

Water Found at Depth	Kind
95 ft	Untested
116 ft	Untested
134 ft	Untested

Hole Diameter

Depth From	Depth To	Diameter
0 ft	50 ft	9.75 inch
50 ft	140 ft	6 inch

Audit Number: Z262192

Date Well Completed: November 14, 2017

Date Well Record Received by MOE: April 24, 2018

Related

How to use a Ministry of the Environment map (/page/how-use-ministry-environment-map#wells)

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

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

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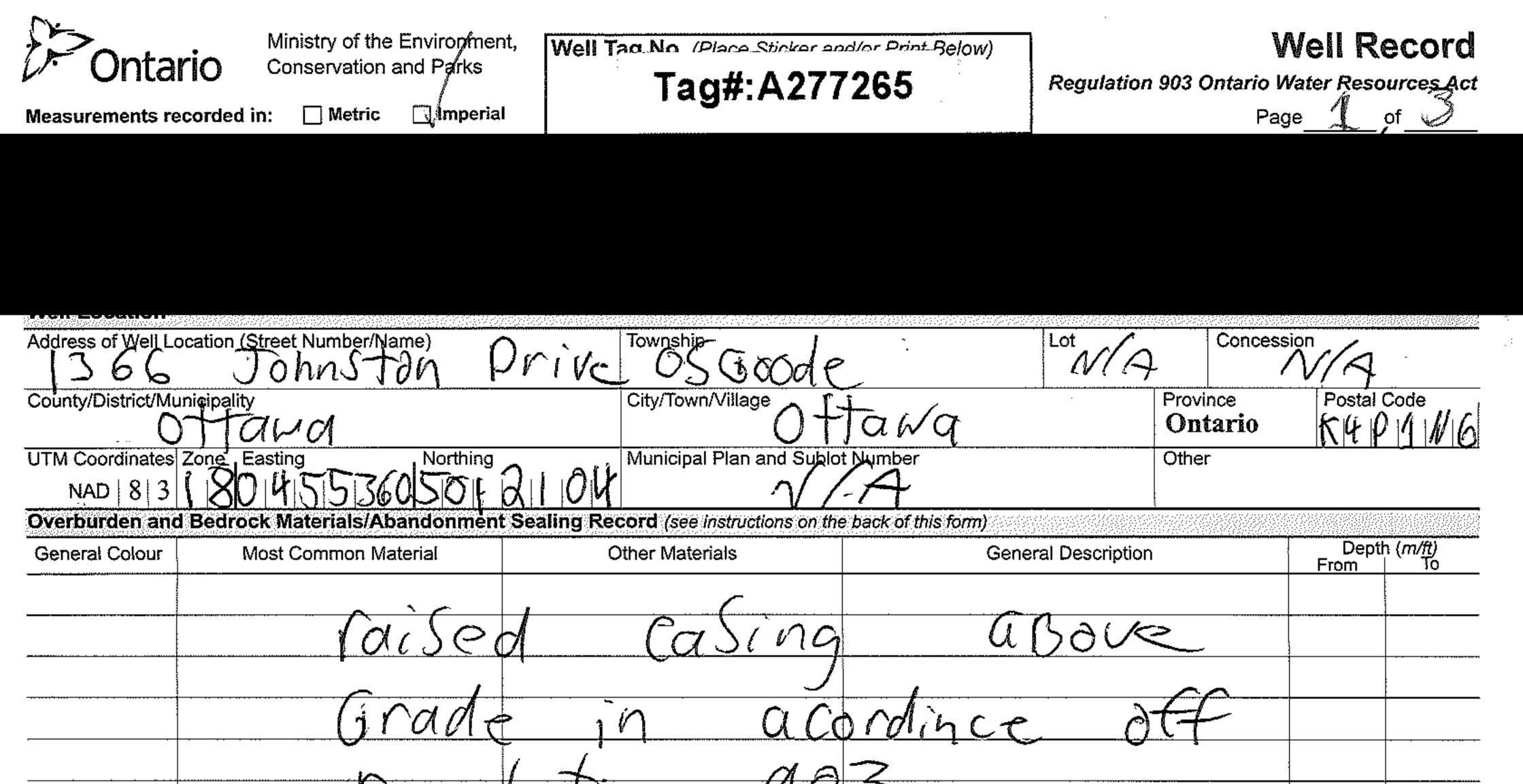
accessibility (https://www.ontario.ca/page/accessibility)

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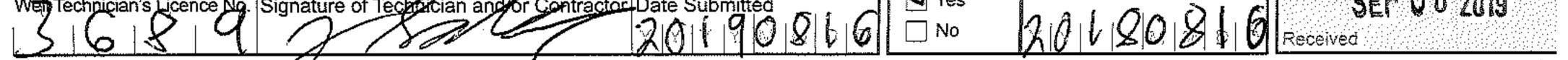
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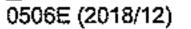
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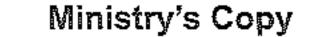


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	6	J								
	- Hew	e^{\parallel}		Las	Sa	mitized.	\rightarrow			
		Annular Sp				Results of We				
Depth Se From	et at (<i>m/ft</i>) To	Type of Sealan (Material and T			Volume Placed (m³/ft³)	After test of well yield, water was:	Time	aw Down Water Level		Alecovery
	· · · · · · · · · · · · · · · · · · ·				(<i>in n</i>)	Other, specify	(min)		(min)	
				•		If pumping discontinued, give reason:	Static			
		F				n punipaig usconsided, give reason.	Level			
····		+					1		1	
		·				Pump intake set at (m/ft)	2		2	
			· · · · · · · · · · · · · · · · · · ·			Pumping rate (I/min / GPM)	3		37	
	ol Construction		аналана (1997) 	Well Use			4		4	
	onventional)		_	Commerc		Duration of pumping	\vdash	[/	· []	
Rotary (F		Livesto	-	TestHole		hrs +min	ß		-5-1	
Boring/		🗌 Irrigatio	g ~		Air Condition ig	Final water level end of pumping (m/ft)	10		10	
Air pefcu:	1 8	☐ Industri ☐ Other.	nai specify	V [15		15	<u> </u>
		······			C. C. C. C. M. C.	If flowing give rate (Vmin / GPM)	10		10	
<u>lasida</u>	Construction R	1		(<i>/</i> 2)	Status of Well		20		20	
Inside Diameter	Open Hole OR Material (Galvanized, Fibreglass,	Wali Thickness	Depth (Water Supply	Recommended pump depth (m/ft)	25		25	
(cm/in)	Concrete, Plastic, Steel)	(cm⁄in)	From	То	Test Hole		25		20	
			Gr	6"	Recharge Well	Recommended pump rate (I/min / GPM)	30		30	
					Dewatering Well Observation and/or	Well production (Imin (GPM)	40		40	···

Monitoring Hole 50 50 Alteration Disinfected? (Construction) 60 60 Yes No Abandoned. Insufficient Supply Map of Well Location **Construction Record - Screen** Abandoned, Poor Please provide a map below following instructions on the back. Outside Water Quality Depth (m/ft) Material Diameter Slot Ne. Abandoned, other, (Plastic, Galvanized, Steel) То (cm/in) From Ð specify flouse \leq ੋ **ਡ** Other, specify Water Details **Hole Diameter** Water found at Depth Kind of Water: Fresh Untested Diameter Depth (m/ft) 1 ocation 1 (cm/in) То From (*m/ft*) Gas Other, specify \Im Water found at Depth Kind of Water: Fresh Untested dhe (m/ft) Gas Other, specify 48f Water found at Depth Kind of Water: Fresh Untested (*m/ft*) Gas Other, *specify* Well Contractor and Well Technician Information Johnston Drive Business Name of Well Contractor Well-Contractor's Licence-No. VM DING Ø 5 Business Address (Street Number/Name) Municipality Comments: and 6 Main NANO Province Business E-mail Address Postal Code electric. Col Ministry Use Only Well owner's Date Package Delivered И I information Audit No. Z319379 20180816 Bus.Telephone No. (inc. area code) Name of Well Technician (Last Name, First Name) package er 13692323annston delivered 6 -700 Date Work Completed SEP 0 6 2019 Yes Wen Technician's Licence No. Signature of Technician and or Contractor Date Submitted 2010 200 0 8 6 0 0 No









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Menu

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 <u>Open Data catalogue</u> (<u>https://data.ontario.ca/dataset/well-records)</u>.

<u>Go Back to Map ()</u>

Well ID

Well ID Number: 7372157Well Audit Number: *Z344080*Well Tag Number: *A305154This table contains information from the original well record and any subsequent updates.*

Well Location

Address of Well Location

Map: Well records o	ontario.ca
-----------------------	------------

Township	OSGOODE TOWNSHIP
Lot	004
Concession	CON 04
County/District/Municipality	OTTAWA-CARLETON
City/Town/Village	
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 18 Easting: 454691.00 Northing: 5012376.00

Municipal Plan and Sublot Number

Other

Overburden and Bedrock Materials Interval

General	Most Common	Other	General	Depth	Depth
Colour	Material	Materials	Description	From	То

Annular Space/Abandonment Sealing Record

DepthDepthType of Sealant UsedVolumeFromTo(Material and Type)Placed

Method of Construction & Well Use

Method of Construction Well Use

Status of Well

Construction Record - Casing

Inside	Open Hole or material	Depth	Depth
Diameter		From	То

Construction Record - Screen

Outside Material Depth Depth Diameter From To

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 7681

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	

2/23/2	22, 9:16 AM	Map: Well records ontario.ca
	40	40
	45	45
	50	50
	60	60
	OU	60

Water Details

Water Found at Depth Kind

Hole Diameter

Depth Depth Diameter From To

Audit Number: Z344080

Date Well Completed: September 11, 2020

Date Well Record Received by MOE: November 03, 2020

Related

How to use a Ministry of the Environment map (/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

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Certificate of Analysis

Environment Testing

Client:	Paterson Group		Report Number:	1971215
Olicini.	154 Colonnade Rd. South		Date Submitted:	2022-02-04
			Date Submitted: Date Reported:	2022-02-04
	Nepean, ON		Project:	PH4407
	K2E 7T7		COC #:	885852
Attention:	Mr. Kirby Magee-Dittburner		COC #.	000002
PO#:	33729			
Invoice to:	Paterson Group	Page 1 of 13		

Dear Kirby Magee-Dittburner:

Please find attached the analytical results for your samples. If you have any questions regarding this report, please do not hesitate to call (613-727-5692).

Report Comments:

🛟 eurofins

Addrine Thomas 2022.02.10 14:16:00 -05'00'

APPROVAL:

Addrine Thomas, Inorganics Supervisor

All analysis is completed at Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) unless otherwise indicated.

Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) is accredited by CALA, Canadian Association for Laboratory Accreditation to ISO/IEC 17025 for tests which appear on the scope of accreditation. The scope is available at: <u>http://www.cala.ca/scopes/2602.pdf</u>.

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Please note: Field data, where presented on the report, has been provided by the client and is presented for informational purposes only. Guideline values listed on this report are provided for ease of use (informational purposes) only. Eurofins recommends consulting the official provincial or federal guideline as required. Unless otherwise stated, measurement uncertainty is not taken into account when determining guideline or regulatory exceedances.



Client:	Paterson Group
	154 Colonnade Rd. South
	Nepean, ON
	K2E 7T7
Attention:	Mr. Kirby Magee-Dittburner
PO#:	33729
Invoice to:	Paterson Group

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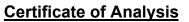
Report Number:	1971215
Date Submitted:	2022-02-04
Date Reported:	2022-02-10
Project:	PH4407
COC #:	885852

Group	Analyte	MRL	Units	Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D. Guideline	1608980 GW 2022-02-03 GW1	1608981 GW 2022-02-03 GW2
Anions	Cl		mg/L	AO 250	97	96
	E	0.10	mg/L	MAC 1.5	0.16	0.15
	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	70	70
General Chemistry	Alkalinity as CaCO3	5	mg/L	OG 30-500	246	244
,	Colour (Apparent)	2	TCU	AO 5	67*	28*
	Conductivity	5	uS/cm		848	840
	DOC	0.5	mg/L	AO 5	2.4	2.5
	pH	1.00	0	6.5-8.5	8.02	8.07
	Phenols	0.001	mg/L		<0.001	< 0.001
	S2-	0.02	mg/L	AO 0.05		< 0.02
		0.05	mg/L	AO 0.05	<0.05	
	TDS (COND - CALC)	1	mg/L	AO 500	551*	546*
	Turbidity	0.1	NTU	AO 5	4.9	2.2
Hardness	Hardness as CaCO3	1	mg/L	OG 80-100	384*	380*
Indices/Calc	Ion Balance	0.01			0.98	0.98
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
	Ва	0.01	mg/L	MAC 1.0	0.40	0.40
	Be	0.0005	mg/L		<0.0005	<0.0005
	Ca	1	mg/L		101	101
	Cd	0.0001	mg/L	MAC 0.005	<0.0001	<0.0001

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.



Client:	Paterson Group
	154 Colonnade Rd. South
	Nepean, ON
	K2E 7T7
Attention:	Mr. Kirby Magee-Dittburner
PO#:	33729
Invoice to:	Paterson Group

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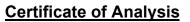
Report Number:	1971215
Date Submitted:	2022-02-04
Date Reported:	2022-02-10
Project:	PH4407
COC #:	885852

				Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.	1608980 GW 2022-02-03 GW1	1608981 GW 2022-02-03 GW2
Group	Analyte	MRL	Units	Guideline		
Metals	Co	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	0.008	0.003
	Fe	0.03	mg/L	AO 0.3	0.58*	0.46*
	Hg	0.0001	mg/L	MAC 0.001	<0.0001	<0.0001
	К	1	mg/L		2	2
	Mg	1	mg/L		32	31
	Mn	0.01	mg/L	AO 0.05	0.03	0.03
	Мо	0.005	mg/L		<0.005	< 0.005
	Na	1	mg/L	AO 200	28	28
	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		0.306	0.293
	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
Nutrients	N-NH3	0.010	mg/L		<0.010	<0.010
	Total Kjeldahl Nitrogen	0.100	mg/L		0.210	0.402
Subcontract	Tannin & Lignin	0.1	mg/L		0.9	0.9
VOCs Surrogates	1,2-dichloroethane-d4	0	%		110	120

Guideline = ODWSOG

* = Guideline Exceedence

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Client:	Paterson Group
	154 Colonnade Rd. South
	Nepean, ON
	K2E 7T7
Attention:	Mr. Kirby Magee-Dittburner
PO#:	33729
Invoice to:	Paterson Group

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Report Number:	1971215
Date Submitted:	2022-02-04
Date Reported:	2022-02-10
Project:	PH4407
COC #:	885852

				Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.	1608980 GW 2022-02-03 GW1	1608981 GW 2022-02-03 GW2
Group	Analyte	MRL	Units	Guideline		
VOCs Surrogates	4-bromofluorobenzene	0	%		82	73
	Toluene-d8	0	%		119	103
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	0.2	ug/L	IMAC 5	<0.2	<0.2
	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)	0.3	ug/L		<0.3	<0.3
	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
	c-1,2-Dichloroethylene	0.4	ug/L		<0.4	<0.4
	c-1,3-Dichloropropylene	0.2	ug/L		<0.2	<0.2
	Carbon Tetrachloride	0.2	ug/L	MAC 2	<0.2	<0.2
	Chloroethane	0.2	ug/L		<0.2	<0.2
	Chloroform	0.5	ug/L		<0.5	<0.5

Guideline = ODWSOG

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	Nepean, ON
	K2E 7T7
Attention:	Mr. Kirby Magee-Dittburner
PO#:	33729
Invoice to:	Paterson Group

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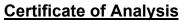
Report Number:	1971215
Date Submitted:	2022-02-04
Date Reported:	2022-02-10
Project:	PH4407
COC #:	885852

				Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.	1608980 GW 2022-02-03 GW1	1608981 GW 2022-02-03 GW2
Group	Analyte	MRL	Units	Guideline		
Volatiles	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	0.2	ug/L		<0.2	<0.2
	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
	Xylene; total	0.5	ug/L	MAC 90	<0.5	<0.5

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Client:	Paterson Group
	154 Colonnade Rd. South
	Nepean, ON
	K2E 7T7
Attention:	Mr. Kirby Magee-Dittburner
PO#:	33729
Invoice to:	Paterson Group

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Report Number:	1971215
Date Submitted:	2022-02-04
Date Reported:	2022-02-10
Project:	PH4407
COC #:	885852

QC Summary

An	alyte	Blank	QC % Rec	QC Limits
Run No 416630 Method AMBCOLM1	Analysis/Extraction Date 20	022-02-05 Ana	lyst DRA	
Escherichia Coli				
Total Coliforms				
Run No 416636 Method C SM2130B	Analysis/Extraction Date 20	022-02-04 Ana	lyst AaN	
Turbidity		<0.1 NTU	99	70-130
Run No 416668 Method C SM2120C	Analysis/Extraction Date 20	022-02-07 Ana	lyst AsA	
Colour (Apparent)		<2 TCU	109	90-110
Run No 416675 Method EPA 350.1	Analysis/Extraction Date 20	022-02-07 Ana	lyst SKH	
N-NH3		<0.010 mg/L	104	80-120
Run No 416691 Method EPA 351.2	Analysis/Extraction Date 20	022-02-07 Ana	lyst SKH	
Total Kjeldahl Nitr	ogen	<0.100 mg/L	98	70-130
Run No 416692 Method C SM4500-S2	Analysis/Extraction Date 20	022-02-07 Ana	lyst AsA	
S2-		<0.01 mg/L	92	80-120

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Report Number:	1971215
Date Submitted:	2022-02-04
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Project:	PH4407
COC #:	885852

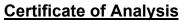
QC Summary

Analyte	Blank	QC % Rec	QC Limits
Run No 416703 Analysis/Extraction Date 20 Method M SM3120B-3500C	022-02-07 Ana	llyst ZS	
Calcium	<1 mg/L	99	90-110
Potassium	<1 mg/L	90	87-113
Magnesium	<1 mg/L	98	76-124
Sodium	<1 mg/L	97	82-118
Run No416719Analysis/Extraction Date20MethodSM 4110)22-02-08 Ana	ilyst AaN	
Chloride	<1 mg/L	100	90-110
N-NO2	<0.10 mg/L	101	90-110
N-NO3	<0.10 mg/L	105	90-110
SO4	<1 mg/L	105	90-110
Run No 416755 Analysis/Extraction Date 20 Method SM2320,2510,4500H/F)22-02-07 Ana	ilyst AsA	
Alkalinity (CaCO3)	<5 mg/L	104	90-110
Conductivity	<5 uS/cm	100	90-110
F	<0.10 mg/L	105	90-110
pН		99	90-110

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1971215
2022-02-04
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PH4407
885852

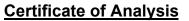
QC Summary

Analyte	Blank	QC % Rec	QC Limits
Run No 416780 Analysis/Extraction Date 20 Method EPA 8260)22-02-08 Ana	lyst YH	
Tetrachloroethane, 1,1,1,2-	<0.5 ug/L	86	60-130
Trichloroethane, 1,1,1-	<0.4 ug/L	94	60-130
Tetrachloroethane, 1,1,2,2-	<0.5 ug/L	100	60-130
Trichloroethane, 1,1,2-	<0.4 ug/L	105	60-130
Dichloroethane, 1,1-	<0.4 ug/L	91	60-130
Dichloroethylene, 1,1-	<0.5 ug/L	93	60-130
Dichlorobenzene, 1,2-	<0.4 ug/L	82	60-130
Dichloroethane, 1,2-	<0.2 ug/L	97	60-130
Dichloropropane, 1,2-	<0.5 ug/L	88	60-130
1,3,5-trimethylbenzene	<0.3 ug/L	85	60-130
Dichlorobenzene, 1,3-	<0.4 ug/L	90	60-130
Dichloropropene,1,3-	<0.3 ug/L		
Dichlorobenzene, 1,4-	<0.4 ug/L	85	60-130
Acetone	<30 ug/L		60-130
Benzene	<0.5 ug/L	88	60-130
Bromodichloromethane	<0.3 ug/L	92	60-130

Guideline = ODWSOG

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Report Number:	1971215
Date Submitted:	2022-02-04
Date Reported:	2022-02-10
Project:	PH4407
COC #:	885852

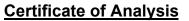
QC Summary

Analyte	Blank	QC % Rec	QC Limits
Bromoform	<0.4 ug/L	101	60-130
Bromomethane	<0.5 ug/L	91	60-130
Dichloroethylene, 1,2-cis-	<0.4 ug/L	87	60-130
Dichloropropene,1,3-cis-	<0.2 ug/L	81	60-130
Carbon Tetrachloride	<0.2 ug/L	90	60-130
Chloroethane	<0.2 ug/L	92	60-130
Chloroform	<0.5 ug/L	90	60-130
Dibromochloromethane	<0.3 ug/L	103	60-130
Dichlorodifluoromethane	<0.5 ug/L	89	60-130
Methylene Chloride	<4.0 ug/L	117	60-130
Ethylbenzene	<0.5 ug/L	82	60-130
Ethylene dibromide	<0.2 ug/L	100	60-130
Hexane (n)	<5 ug/L	90	60-130
m/p-xylene	<0.4 ug/L	84	60-130
Methyl Ethyl Ketone	<10 ug/L	100	60-130
Methyl Isobutyl Ketone	<10 ug/L		60-130
Methyl tert-Butyl Ether (MTBE)	<2 ug/L	80	60-130
Chlorobenzene	<0.5 ug/L	99	60-130

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	154 Colonnade Rd. South
	Nepean, ON
	K2E 7T7
Attention:	Mr. Kirby Magee-Dittburner
PO#:	33729
Invoice to:	Paterson Group

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Report Number:	1971215
Date Submitted:	2022-02-04
Date Reported:	2022-02-10
Project:	PH4407
COC #:	885852

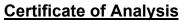
QC Summary

Analyte	Blank	QC % Rec	QC Limits
o-xylene	<0.4 ug/L	91	60-130
Styrene	<0.5 ug/L	87	60-130
Dichloroethylene, 1,2-trans-	<0.4 ug/L	85	60-130
Dichloropropene,1,3-trans-	<0.2 ug/L	84	60-130
Tetrachloroethylene	<0.3 ug/L	81	60-130
Toluene	<0.4 ug/L	88	60-130
Trichloroethylene	<0.3 ug/L	88	60-130
Trichlorofluoromethane	<0.5 ug/L	92	60-130
Vinyl Chloride	<0.2 ug/L	89	60-130
Run No 416789 Analysis/Extraction Date 20 Method EPA 8260 EPA 8260 <t< td=""><td>)22-02-08 Ana</td><td>ilyst YH</td><td></td></t<>)22-02-08 Ana	ilyst YH	
Xylene Mixture			
Run No 416791 Analysis/Extraction Date 20 Method SM5530D/EPA420.2	022-02-08 Ana	ilyst IP	
Phenols	<0.001 mg/L	57	50-120
Run No 416797 Analysis/Extraction Date 20 Method C SM2340B)22-02-08 Ana	ilyst AET	
Hardness as CaCO3			
lon Balance			

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Report Number:	1971215
Date Submitted:	2022-02-04
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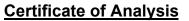
QC Summary

Analyte	Blank	QC % Rec	QC Limits
TDS (COND - CALC)			
Run No 416800 Analysis/Extraction Date 2022-02-08 Analyst AsA Method SM 5310B SM 5310B Asa			
DOC	<0.5 mg/L	92	80-120
Run No416836Analysis/Extraction DateMethodEPA 200.8	2022-02-08 Ana	ilyst SD	
Silver	<0.0001 mg/L	102	80-120
Aluminum	<0.01 mg/L	115	80-120
Arsenic	<0.001 mg/L	101	80-120
Boron (total)	<0.01 mg/L	116	80-120
Barium	<0.01 mg/L	95	80-120
Beryllium	<0.0005 mg/L	114	80-120
Cadmium	<0.0001 mg/L	99	80-120
Cobalt	<0.0002 mg/L	111	80-120
Chromium Total	<0.001 mg/L	110	80-120
Copper	<0.001 mg/L	115	80-120
Iron	<0.03 mg/L	112	80-120
Manganese	<0.01 mg/L	106	80-120

Guideline = ODWSOG

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Report Number:	1971215
Date Submitted:	2022-02-04
Date Reported:	2022-02-10
Project:	PH4407
COC #:	885852

QC Summary

Analyte	Blank	QC % Rec	QC Limits
Molybdenum	<0.005 mg/L	102	80-120
Nickel	<0.005 mg/L	116	80-120
Lead	<0.001 mg/L	108	80-120
Antimony	<0.0005 mg/L	111	80-120
Selenium	<0.001 mg/L	90	80-120
Strontium	<0.001 mg/L	93	80-120
Thallium	<0.0001 mg/L	109	80-120
Uranium	<0.001 mg/L	112	80-120
Vanadium	<0.001 mg/L	106	80-120
Zinc	<0.01 mg/L	104	80-120
Run No 416840 Analysis/Extraction Date 20 Method SUBCONTRACT-A	022-02-07 Ana	ilyst AET	-
Tannin & Lignin	<0.10 mg/L	108	
Run No416883Analysis/Extraction Date20MethodEPA 200.8	022-02-09 Ana	llyst SD	
Mercury	<0.0001 mg/L	119	80-120

Guideline = ODWSOG

* = Guideline Exceedence

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Certificate of Analysis

Environment Testing

Client:	Paterson Group
	154 Colonnade Rd. South
	Nepean, ON
	K2E 7T7
Attention:	Mr. Kirby Magee-Dittburner
PO#:	33729
Invoice to:	Paterson Group

 Report Number:
 1971215

 Date Submitted:
 2022-02-04

 Date Reported:
 2022-02-10

 Project:
 PH4407

 COC #:
 885852

Sample Comment Summary

 Sample ID: 1608980
 GW1
 S2- MRL elevated due to matrix interference (dilution was done).

 Sample ID: 1608981
 GW2
 S2- MRL elevated due to matrix interference (dilution was done).

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.

SOIL PROFILE AND TEST DATA

154 Colonnade Road South, Ottawa, Ontario K2E 7J5

Geotechnical Investigation Proposed Building Addition - 1353 Coker Street Ottawa, Ontario

DATUM Geodetic					•				FILE	ENO. PO	6052	
REMARKS				_					HOL	- ^{E NO.} TP	1-21	
BORINGS BY Backhoe			SVI	/IPLE	DATE	Decembe	er 17, 202		ociet	. Blows/0		
SOIL DESCRIPTION	PLOT					DEPTH (m)	ELEV. (m)			n Dia. Con		Piezometer Construction
	STRATA	ТҮРЕ	NUMBER	°% RECOVERY	N VALUE or RQD	(,	(,	• •	Vator	Content %		szome nstru
GROUND SURFACE	STI	f	NUN	RECO	N OL (20	40		80	ling Q
Asphaltic concrete						0-	-100.05				+	
<u>0.20</u>												
FILL: Brown silty sand with gravel and crushed stone		G	1									
<u>0.60</u>		<u>/_</u>								·····		
Compact, brown SILTY SAND		G	2			1-	-99.05					₽
		Δ										
<u>1.35</u>												
Very stiff to stiff, grey SILTY CLAY												
		G	3									
- silt content increasing with depth		Λ				2-	98.05					
2.50												
												-
Stiff, grey CLAYEY SILT												
						3-	-97.05					
3.20		G	4									
End of Test Pit		<u> </u>										
(Groundwater infiltration at 1.0m depth)												
								20	40	60		⊣ 00
								Shea		rength (kP △ Remo		

SOIL PROFILE AND TEST DATA

FILE NO.

Geotechnical Investigation Proposed Building Addition - 1353 Coker Street Ottawa, Ontario

154 Colonnade Road South, Ottawa, Ontario K2E 7J5

Geodetic

DATUM

											PG6052	2
REMARKS									н		0 0.04	
BORINGS BY Backhoe				D	ATE	Decembe	er 17, 202	21			[°] TP 2-21	
SOIL DESCRIPTION	PLOT		SAMPLE DEPTH ELEV.		Pen.	Pen. Resist. Blows/0.3m ● 50 mm Dia. Cone						
	1	⁶⁴ (m) (m) (m)									met	
	STRATA	ТҮРЕ	NUMBER	° ≈ © © ©	N VALUE or RQD			0	Wate	er Co	ntent %	Piezometer Construction
GROUND SURFACE	2		N	REC	z ⁰			20	4	0 0	60 80	
FILL: Crushed stone with sand						- 0-	-100.06					
FILL: Brown silty sand with gravel	\bigotimes	G	1									
Very stiff to stiff, grey SILTY CLAY		G	2									<u> </u>
End of Test Pit												
(Groundwater infiltration at 0.4m depth)								20	4		60 80 1	
									ear S	treng	60 80 1 ∣th (kPa) ∆ Remoulded	100

SOIL PROFILE AND TEST DATA

FILE NO.

PG6052

Geotechnical Investigation Proposed Building Addition - 1353 Coker Street Ottawa, Ontario

154 Colonnade Road South, Ottawa, Ontario K2E 7J5

REMARKS

DATUM

REMARKS		

Geodetic

BORINGS BY Backhoe				D	ATE	Decembe	er 17, 202	21	HOLE NO. TP 3-21	
SOIL DESCRIPTION			SAN	IPLE		DEPTH	ELEV.	Pen. R	esist. Blows/0.3m 0 mm Dia. Cone	ter tion
	STRATA PLOT	ТҮРЕ	NUMBER	% RECOVERY	N VALUE or RQD	(m)	(m)		Vater Content %	Piezometer Construction
GROUND SURFACE	ß		Z	RE	zÓ		100.00	20	40 60 80	
FILL: Crushed stone with sand						- 0-	-100.26			-
FILL: Brown silty sand with gravel, 0.64		₹ G	1							-
Compact, brown SILTY SAND		G	2							Ā
						1-	-99.26			
Very stiff to stiff, grey SILTY CLAY										
- silt content increasing with depth										
2.20		G	3			2-	-98.26			
Stiff, grey CLAYEY SILT		7								
3.00 End of Test Pit	Γ <i>Ι</i> Χ	<u>∢</u> G	4			3-	-97.26			
(Groundwater infiltration at 0.9m depth)										
								20 Shea ▲ Undist	ar Strength (kPa)	00

SOIL PROFILE AND TEST DATA

Geotechnical Investigation Proposed Building Addition - 1353 Coker Street

154 Colonnade Road South, Ottawa, Ontario K2E 7J5 Ottawa, Ontario								hadition	
DATUM Geodetic									
REMARKS									
BORINGS BY Backhoe		1			D	ATE	Decembe	er 17, 202	21
SOIL DESCRIPTION		PLOT		SAN			DEPTH (m)	ELEV. (m)	Pen.
GROUND SURFACE		STRATA	ТҮРЕ	NUMBER	% RECOVERY	N VALUE or RQD			0 20
FILL: Crushed stone with sand	0.40						0-	-100.14	
FILL: Brown silty sand with gravel	0.82		X G	1					
Compact, brown SILTY SAND	<u>1.00</u>		∑ G	2			1.	-99.14	
Very stiff, grey SILTY CLAY	<u>1.20</u>		<u> </u>	3			I	55.14	
(Groundwater infiltration at 0.6m depth)									

⊻

FILE NO.

PG6052

D	ATE [Decembe	er 17, 202	21	HOLE	NO. TF	P 4-21	
LE		DEPTH	ELEV.	Pen. Re	esist. E 0 mm D			er ion
ERY	VALUE : RQD	(m)	(m)	• 5		/ia. CU		Piezometer Construction
RECOVERY	N VAI of R				/ater Co		, -	Piez
щ	1	0-	100.14	20	40	60	80	
		0-	- 100.14					

40

Shear Strength (kPa)

60

20

▲ Undisturbed

80

 \triangle Remoulded

100

SYMBOLS AND TERMS

SOIL DESCRIPTION

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

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

The standard terminology to describe the strength of cohesionless soils is the relative density, usually inferred from the results of the Standard Penetration Test (SPT) 'N' value. The SPT N value is the number of blows of a 63.5 kg hammer, falling 760 mm, required to drive a 51 mm O.D. split spoon sampler 300 mm into the soil after an initial penetration of 150 mm.

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

The standard terminology to describe the strength of cohesive soils is the consistency, which is based on the undisturbed undrained shear strength as measured by the in situ or laboratory vane tests, penetrometer tests, unconfined compression tests, or occasionally by Standard Penetration Tests.

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

SYMBOLS AND TERMS (continued)

SOIL DESCRIPTION (continued)

Cohesive soils can also be classified according to their "sensitivity". The sensitivity is the ratio between the undisturbed undrained shear strength and the remoulded undrained shear strength of the soil.

Terminology used for describing soil strata based upon texture, or the proportion of individual particle sizes present is provided on the Textural Soil Classification Chart at the end of this information package.

ROCK DESCRIPTION

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

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

RQD % ROCK QUALITY

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

SAMPLE TYPES

SS	-	Split spoon sample (obtained in conjunction with the performing of the Standard
		Penetration Test (SPT))

- TW Thin wall tube or Shelby tube
- PS Piston sample
- AU Auger sample or bulk sample
- WS Wash sample
- RC Rock core sample (Core bit size AXT, BXL, etc.). Rock core samples are obtained with the use of standard diamond drilling bits.

SYMBOLS AND TERMS (continued)

GRAIN SIZE DISTRIBUTION

MC% LL PL PI	- - -	Natural moisture content or water content of sample, % Liquid Limit, % (water content above which soil behaves as a liquid) Plastic limit, % (water content above which soil behaves plastically) Plasticity index, % (difference between LL and PL)		
Dxx	-	Grain size which xx% of the soil, by weight, is of finer grain sizes These grain size descriptions are not used below 0.075 mm grain size		
D10	-	Grain size at which 10% of the soil is finer (effective grain size)		
D60	-	Grain size at which 60% of the soil is finer		
Cc	-	Concavity coefficient = $(D30)^2 / (D10 \times D60)$		
Cu	-	Uniformity coefficient = D60 / D10		
Cc and Cu are used to assess the grading of sands and gravels:				

Well-graded gravels have: 1 < Cc < 3 and Cu > 4Well-graded sands have: 1 < Cc < 3 and Cu > 4Well-graded sands have: 1 < Cc < 3 and Cu > 6Sands and gravels not meeting the above requirements are poorly-graded or uniformly-graded. Cc and Cu are not applicable for the description of soils with more than 10% silt and clay (more than 10% finer than 0.075 mm or the #200 sieve)

CONSOLIDATION TEST

p'o	-	Present effective overburden pressure at sample depth
p'c	-	Preconsolidation pressure of (maximum past pressure on) sample
Ccr	-	Recompression index (in effect at pressures below p'c)
Сс	-	Compression index (in effect at pressures above p'c)
OC Ratio)	Overconsolidaton ratio = p'_c / p'_o
Void Rat	io	Initial sample void ratio = volume of voids / volume of solids
Wo	-	Initial water content (at start of consolidation test)

PERMEABILITY TEST

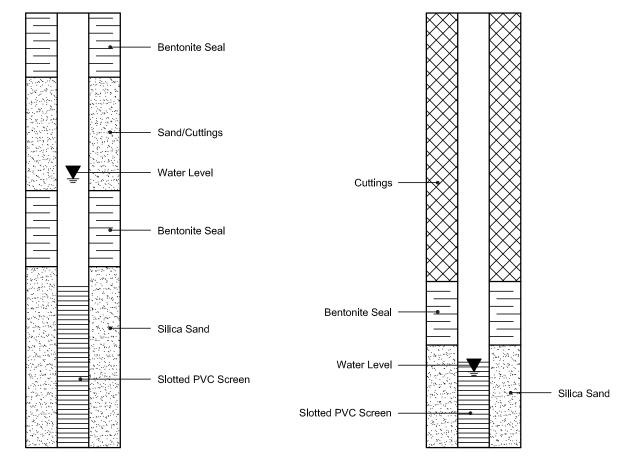
k - Coefficient of permeability or hydraulic conductivity is a measure of the ability of water to flow through the sample. The value of k is measured at a specified unit weight for (remoulded) cohesionless soil samples, because its value will vary with the unit weight or density of the sample during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

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

MONITORING WELL AND PIEZOMETER CONSTRUCTION

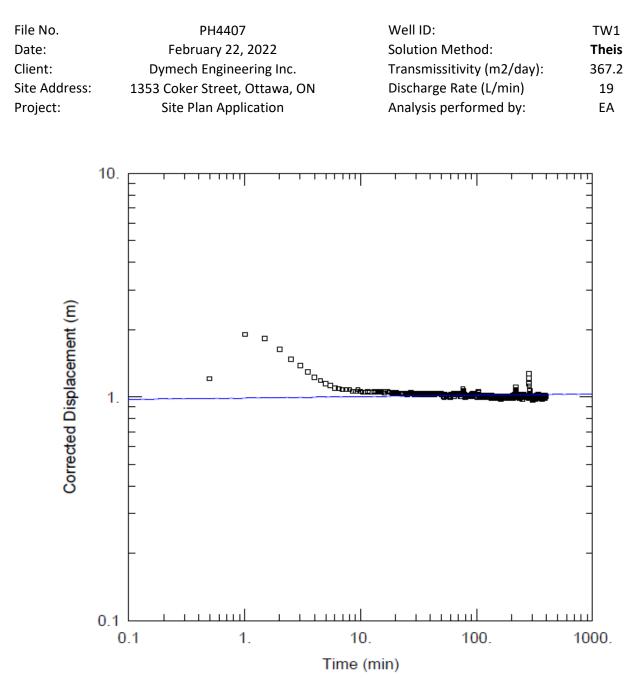


PIEZOMETER CONSTRUCTION



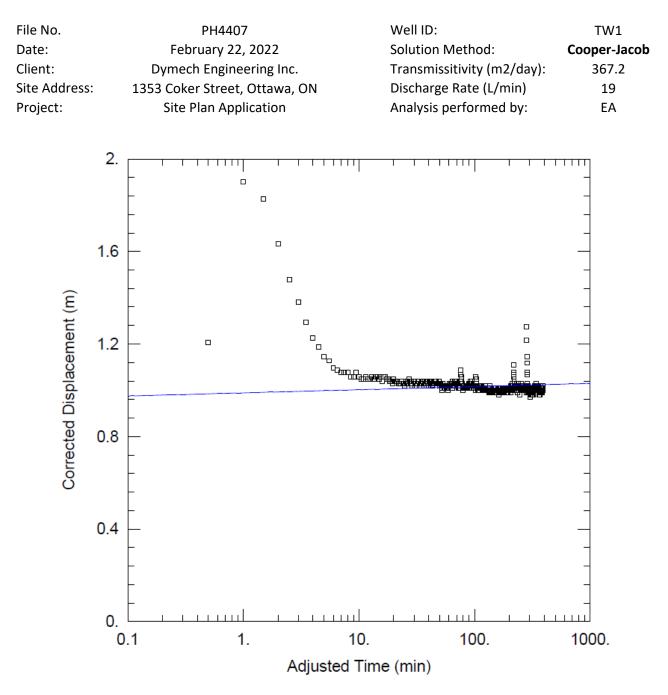
PH4407-LET.01

Pumping Test Analysis Report



PH4407-LET.01

Pumping Test Analysis Report



PH4407-LET.01

Pumping Test Analysis Report

File No.	PH4407
Date:	February 22, 2022
Client:	Dymech Engineering Inc.
Site Address:	1353 Coker Street, Ottawa, ON
Project:	Site Plan Application

Summary Table:		
Solution Method:	Well ID:	Transmissitivity (m2/day):
Theis	TW1	367.2
Cooper-Jacob	TW1	367.2
Average:		367.20

patersongroup 1353 Coker Street, Ottawa - Dymech

PREDICTIVE NITRATE II	MPACT	ASSES	SEMENT
Infiltration Factors			
Topography		0.30	
Soil		0.30	
Cover		0.10	
Total		0.70	
Site Characteristics			
Area of Site :		2675	m²
Total of roof areas:		729	m²
Total area of paved driveway areas:		1327	m²
Roof + paved driveway areas		2056	m²
Impervious Area		2056	m²
Percent Impervious Area =		77	%
Infiltration Area =		619	m²
Septic Effluent			
Concentration of Effluent (Cs) =		4	mg/L
Daily Sewage Flow (Qs)=		3.6	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 $(Q_i) =$		0	m ³ /day
Mass Balance Model (MOEE, 1995) $C_T = (Q_bC_b+Q_eC_e+Q_iC_i)/(Q_b+Q_e+Q_i)$	= Cumulative	Nitrate Concent	ration
Q_b = flow entering the system across the upgradient area		0	m³/day
C _b = background nitrate concentration		0	mg/L
Q_e = flow entering the system from the septic drainfield		3.6	m³/day
C_e = concentration of nitrates in the septic effluent		4	mg/L
Q_i = flow entering the system from infiltration		0	m³/day
C _i = Concentration of nitrates in the infiltrate		0	mg/L
	C _T =	3.56	mg/L
Estimate Number of Lots		1	lots
Notes: Site characteristic values were measured as approximat volume was calculted by Paterson Group as a preliminary desig		the available site	e plan. Daily Sewage Flow

1353 Coker Street, Ottawa PH4407

TW1 pH TDS Hardness Alkalinity Temp.	8.07 546 380 244 9.3	A B C D pHs =	0.17 2.40 2.18 2.39 7.30321912		
Langel	ier Saturation Index (LSI) Calc	ulation	(Langelier, 1936)		
	LSI = pH - pHs	A = (Log10 [TDS] - 1),	/ 10		
	pHs = (9.3 + A + B) - (C + D)	$B = -13.12 \times Log10 (oC + 273) + 34.55$ C = Log10 [Ca2+ as CaCO3] - 0.4			
	Where:				
		D = Log10 [alkalinity as CaCO3]			
		LSI =	0.8		
LSI	Effect				
0.5 to 2	Water is super saturated and tends to precipitate a scale la	yer of calcium carbonate (sca	le forming but non-corrosive)		
0 to 0.5	Water is super saturated and tends to precipitate a scale la	yer of calcium carbonate (slig	htly scale forming and corrosive	2).	
0	Water is saturated (in equilibrium) with calcium carbonate.	A scale layer of calcium carbor	nate is neither precipitated nor o	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 corrosiv	e).		



WaterNOx-LS Third Party Testing Summary

In the fall of 2016, Waterloo Biofilter Systems Inc. installed their WaterNOx-LS[™] denitrification unit at the Bureau de Normalisation du Quebec (BNQ) test site located in Quebec City. The system underwent BNQ 3680-600 test protocol which includes two parts - Period A and Period B. Period A is based on the methodology of NSF/ANSI Standards 40 and 245, containing the same flow patterns and stress tests. Period B provides for a further 6 months of seasonal reliability testing to ensure that the test includes cold weather results.

The WaterNOx-LS is a passive autotrophic denitrification process using sulphur-limestone minerals in a submerged, up-flow configuration. The WaterNOx-LS, which was sized for 1,600 L/day (350 gpd) followed a Waterloo Biofilter nitrifying treatment unit.

Period A Test Results

During Period A wastewater is dosed according to the hydraulic loading specified in NSF-40. Period A includes the wash-day, working-parent, power failure, and vacation period stress tests. All sample results taken during stress tests are included in the analysis. Influent wastewater temperature values ranged from 10.0 °C (50 °F) to 16.5 °C (62 °F) with an average value of 13.3 °C (56 °F). Influent pH averaged 7.9 and effluent pH averaged 7.2.

Parameters	Influent	Effluent	Removal
(c)BOD₅	260	6	97.6%
TSS	312	3	99.2%
Fecal Coliforms	2,403,000	4,900	99.8%
NO _{2,3}	-	0.20	-
TKN	57.1	4.6	92.0%
TN (NO _{2,3} + TKN)	57.1	4.8	91.6%

Table 1 – Period A Results for the WaterNOx-LS

n = 123; n = 357 for fecals

All parameters in mg/L except Fecal Coliforms in cfu/100mL

All values arithmetic averages except Fecal Coliforms in geometric average

Weekly influent total nitrogen concentrations ranged from 43.0 mg/L to 68.8 mg/L with a six-month average concentration of 57.1 mg/L.

Weekly effluent NO_{2,3} concentrations ranged from < 0.02 mg/L to 3.33 mg/L with a six-month average of 0.20 mg/L. Weekly effluent TKN concentrations ranged from 1.5 mg/L to 16.9 mg/L with a six-month average of 4.6 mg/L. Weekly effluent total nitrogen concentrations ranged from 1.7 mg/L to 17.1 mg/L with a six-month average of 4.8 mg/L. The total nitrogen reduction over the six-month period was 91.6%.



Period B Test Results

Weekday hydraulic loading is modified during Period B to a strenuous 'working parent' schedule where 40% of the flow is delivered over three hours in the morning, and 60% is delivered over three hours in the evening. All samples taken during Period B are included in the analysis. Influent wastewater temperature values ranged from 10.1 °C (50 °F) to 15.8 °C (60 °F) with an average value of 12.3 °C (54 °F). Influent pH averaged 8.0 and effluent pH averaged 7.1.

Parameters	Influent	Effluent	Removal
(c)BOD₅	248	4	98.2%
TSS	304	3	99.1%
Fecal Coliforms	2,142,000	2,800	99.9%
NO _{2,3}	-	3.38	-
TKN	60.3	8.5	85.9%
TN (NO _{2,3} + TKN)	60.4	11.9	80.3%

n = 59; n = 118 for fecals

All parameters in mg/L except Fecal Coliforms in cfu/100mL

All values arithmetic averages except Fecal Coliforms in geometric average

Weekly influent total nitrogen concentrations ranged from 21.2 mg/L to 85.6 mg/L with a six-month average concentration of 60.4 mg/L.

Weekly effluent NO_{2,3} concentrations ranged from < 0.04 mg/L to 15.2 mg/L with a six-month average of 3.38 mg/L. Weekly effluent TKN concentrations ranged from 1.2 mg/L to 21.2 mg/L with a weekly average of 8.5 mg/L. Weekly effluent total nitrogen concentrations ranged from 3.7 mg/L to 22.2 mg/L with a six-month average of 11.9 mg/L. The total nitrogen reduction over the six-month period was 80.3%.

Conclusion

In summary, the WaterNOx-LS system can successfully remove very high levels of total nitrogen passively, while buffering pH to neutral and keeping cBOD₅ and TSS levels below 10 mg/L.

DRAWING LIST:

<u>ARCHITECTURAL</u>

A000 – COVER PAGE A002 – DRAWING LIST, LEGEND + NEW SITE PLAN + ZONING COMPLIANCE + O.B.C MATRIX A050 – EXCAVATION PLAN + NOTES

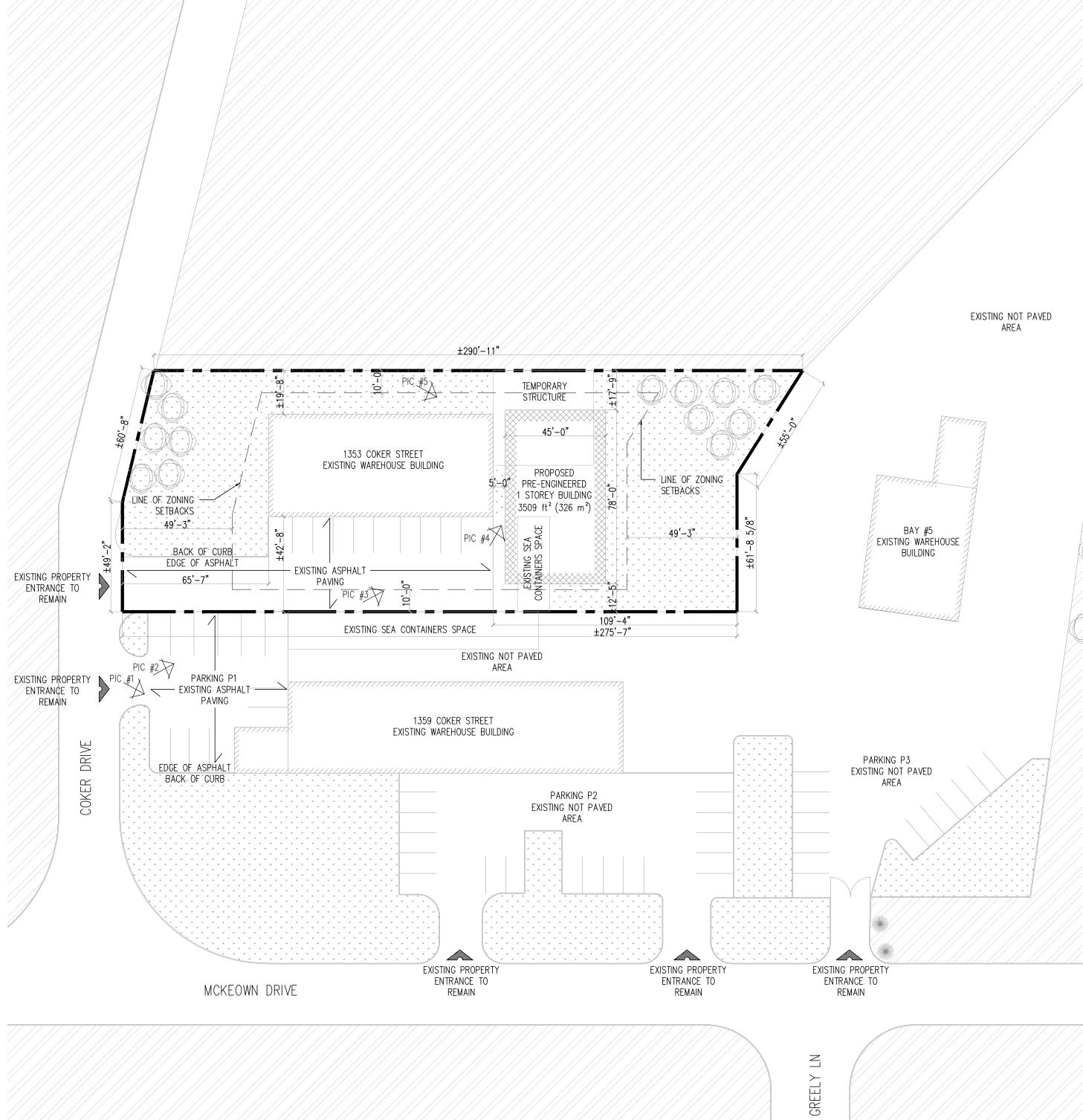
A100 – NEW FLOOR PLAN + NOTES A200 – EXTERIOR ELEVATIONS + NOTES

LEGEND:



NOT INCLUDED IN CONTRACT (N.I.C.)

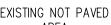
EXISTING GRASS







PICTURE #1





PICTURE #2



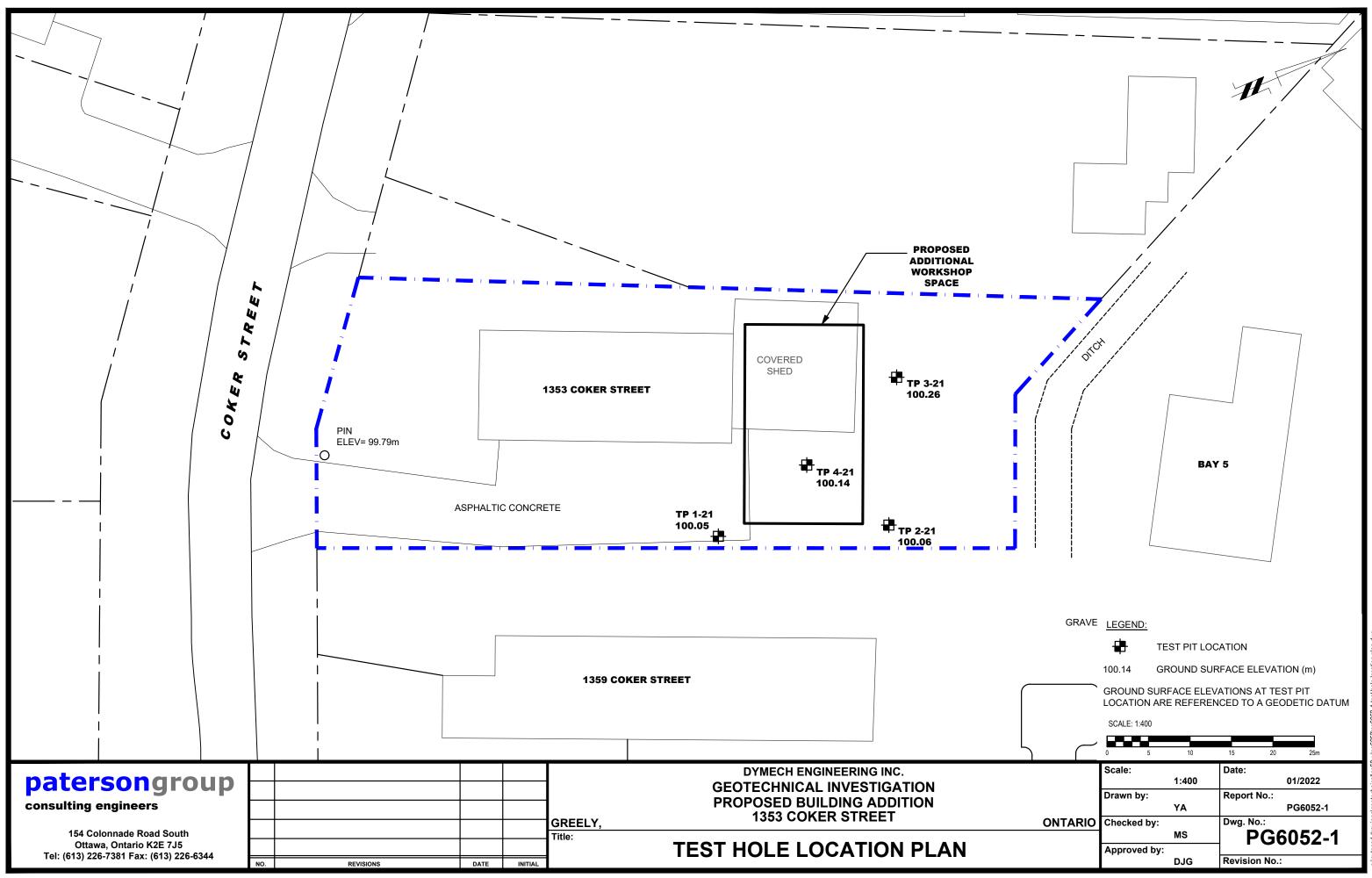
PICTURE #3

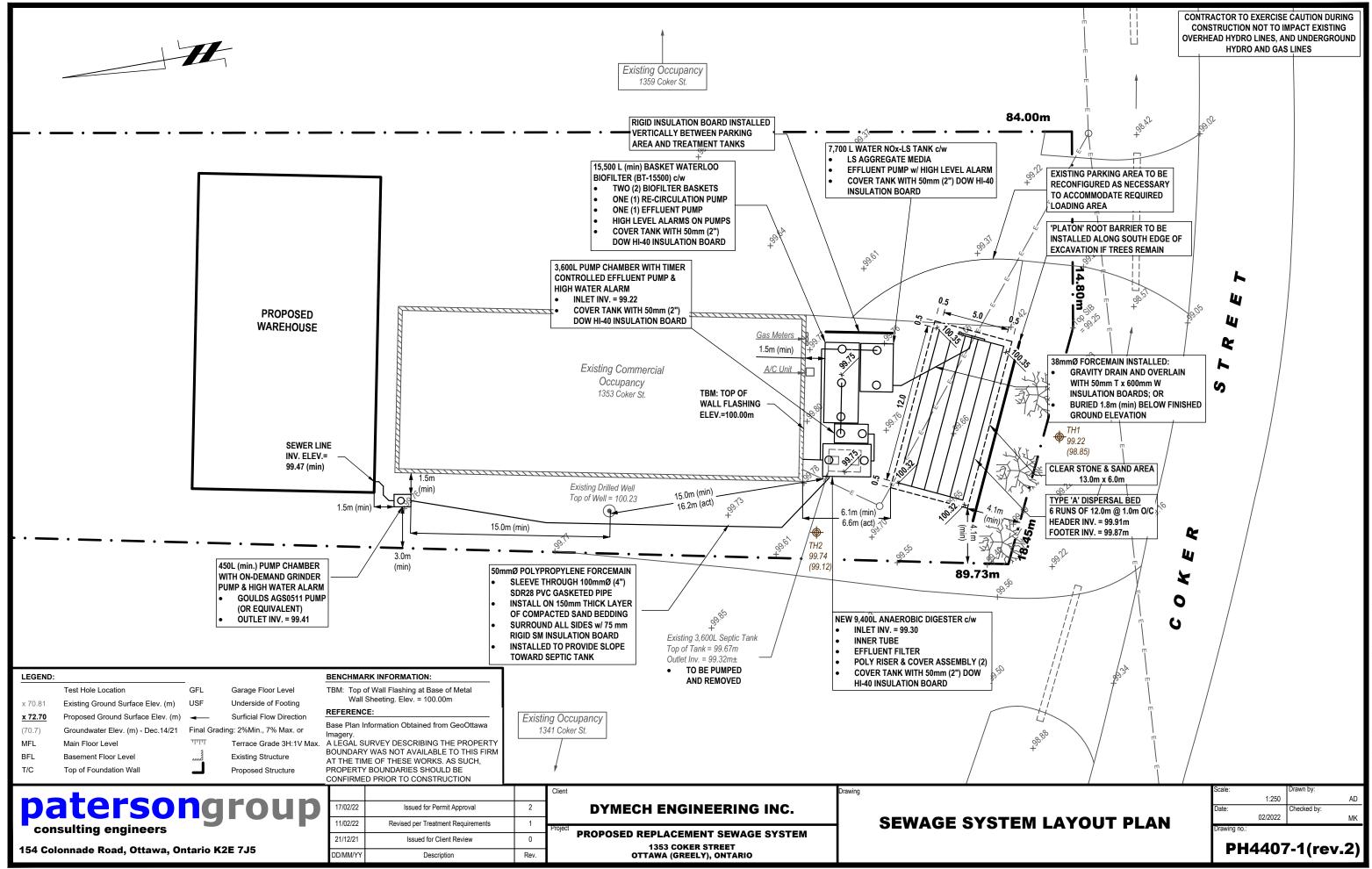


PICTURE

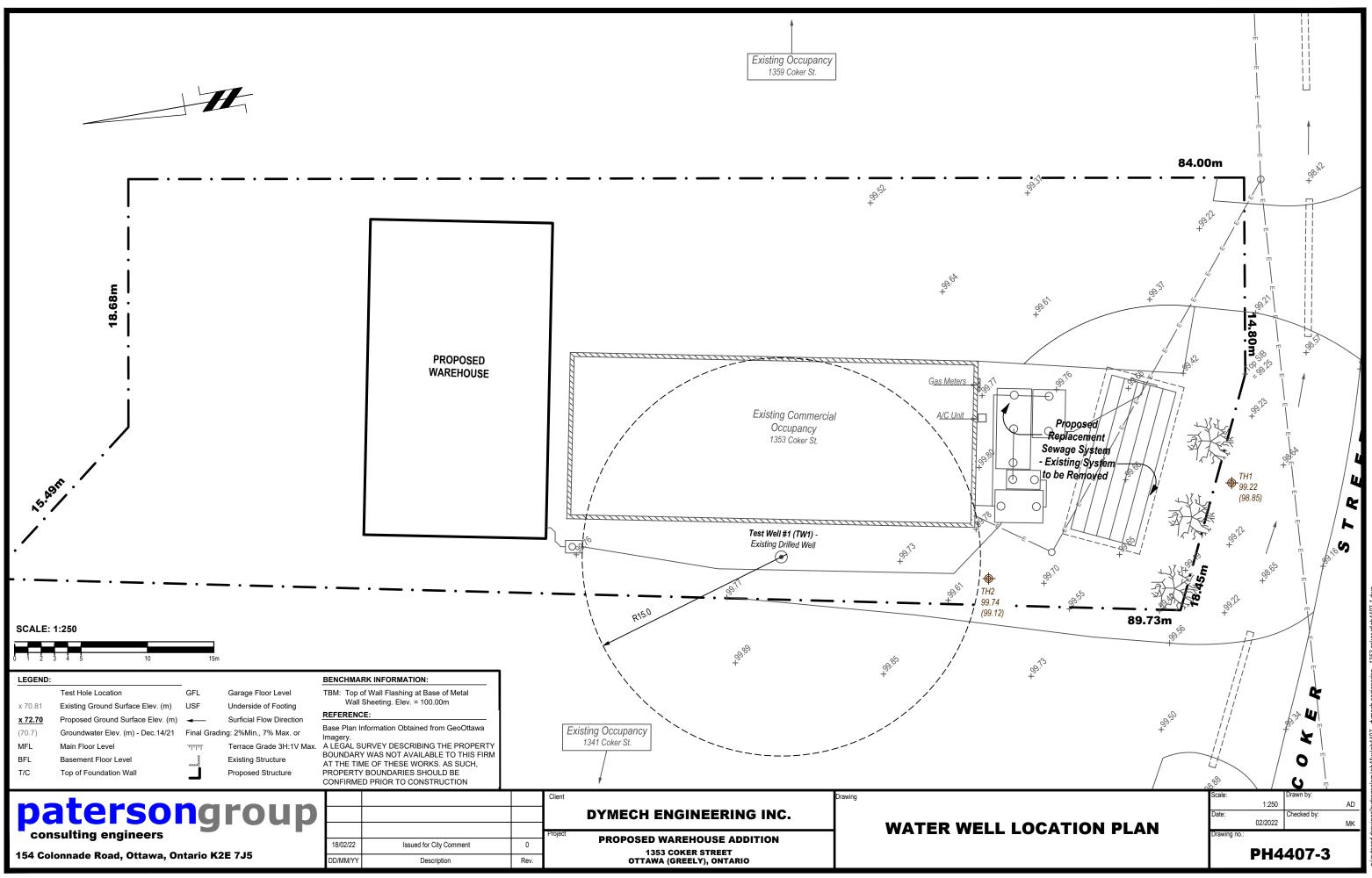
DYITECH ENGINEERING INC.
ARCHITECTS 535 LEGGET DRIVE, SUITE 102 KANATA, ONTARIO K2K 3B8
CLELAND JARDINE ENGINEERING LTD
D.B. Gray Engineering Inc.
LOCATION PLAN: GROUND FLOOR
TRUE NORTH
CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND REPORT ANY OMISSIONS OR DISCREPANCIES TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK. DO NOT SCALE DRAWINGS.
NO. DESCRIPTION DATE 1 Issued for Class D estimate Feb 22,2021
PROJECT NORTH DATE
DRAWN
CHECKED AB
DATE PRINTED
NOT TO BE USED FOR CONSTRUCTION PURPOSES UNTIL SIGNED BY THE ARCHITECT.
ADDRESS: 1359 COKER STREET, GREELY, ONL K4P 1A1
NEW SITE PLAN + NOTES
SCALE DRAWING NO. :
PROJECT NO: A-002

St // // // ,	
$\mathcal{D}////////////////////////////////////$	





autocad drawings\hydrogeology\ph44xx\ph4407 - dymech engineering - 1353 coker st\ph4



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STREET/CIVIC INITIAL Ottawa Septic System Office Septiques d'Ottawa System Office Septiques d'Ottawa 3889 Rideau Valley Drive Box 599 Manotick, ON K4M 1A5 Phone: 613-692-3571 PRESS "4" for septic office 1-800-267-3504 SITE ADDRESS: 1353 Colker S-t Street/Civic INITIAL **EMAIL ONLY** SEPTIC FILE # 22 - 0 5 9 Street Control of the septic office 1-800-267-3504 Fax: 613-692-1507 Email: septic@rvca.ca Township@Schun-GLO-FIT-CUM-NEP-GOU-RID-KAN-T	
CONTACT: 1. Poter Sorv 2. Dymtch Eng. 3. INFORMATION FOR OWNER/APPLICANT Attached is your Sewage System Permit. A minimum of two inspections are required before your proposed sew system can be approved for use (additional inspections may be required for clay soils/bedrock and/or re- inspections). Inspections must be requested in writing. Please see attached: Inspection fax request form (all inspections MUST be requested in writing). As-built components and drawing form Copy of the approved application and schedule pages Approved Part 8 permit: *Electronic copy only – Be sure to INCLUDE in Building Application Package for Plans Examiner at CITY of OTTAWA client services, if NEW or RENO construction project.	age
 A permit is valid for 12 months from the original date of issuance noted in "permit date". If lapsed, may be renewed only once for a period of 12 months from the date of expiry. No person shall make a material change or cause a material change to be made to a plan, specification, document or other information on the basis of which a permit was issued without notifying, filing details with and obtaining the authorization of the Chief Building Official. (Building Code Act 1992, c.23, s.8(12)) 	
Sewage System Permit Construction Requirements	
Sewage System Permit Construction Requirements 1. Clay Soils/Bedrock only (if required per issued Approval) In clay soils/bedrock, a site preparation inspection is required. The total contact area must be properly prepared. Scarification must be done under dry conditions prior to importing leaching bed fill.	
1. Clay Soils/Bedrock only (if required per issued Approval) In clay soils/bedrock, a site preparation inspection is required. The total context	ng -
 Clay Soils/Bedrock only (if required per issued Approval) In clay soils/bedrock, a site preparation inspection is required. The total contact area must be properly prepared. Scarification must be done under dry conditions prior to importing leaching bed fill. Installation Inspection – 2nd inspection When the sewage system is substantially completed (i.e., before the final fill is placed over the septic tank and leaching bed system) an installation inspection is required. Prior to any inspection request, the following must be submitted: a) "as-built components" and "as-built drawings" — see attached form b) "engineer letter" — if the system is engineered c) grain size analysis and weight bills for all Filter Media types of septic systems d) Weigh bills for washed septic stone, where applicable e) Maintenance/service contract for treatment unit installed Final Grading Inspection – 3rd inspection When construction of the sewage system is complete, a final grading inspection is required. Before a Certificate of Completion can be issued, the following must be covered with sand fill and topsoil and graded accordingly b) All conditions of the Sewage System Dermit & commands and fill and topsoil and graded 	
 Clay Soils/Bedrock only (if required per issued Approval) In clay soils/bedrock, a site preparation inspection is required. The total contact area must be properly prepared. Scarification must be done under dry conditions prior to importing leaching bed fill. Installation Inspection – 2nd inspection When the sewage system is substantially completed (i.e., before the final fill is placed over the septic tank and leaching bed system) an installation inspection is required. Prior to any inspection request, the following must be submitted: a) "as-built components" and "as-built drawings" — see attached form b) "engineer letter" — if the system is engineered c) grain size analysis and weight bills for all Filter Media types of septic systems d) Weigh bills for washed septic stone, where applicable e) Maintenance/service contract for treatment unit installed Final Grading Inspection – 3rd inspection When construction of the sewage system is complete, a final grading inspection is required. Before a Certificate of Completion can be issued, the following must be complete:	

	RVCA RECEIN MAR 0 4 20	ADDI	ication	for a Pe	rmit to		or Demolis	
	MAR U & 20	For use by	Principal	Authority		SEP	TIC F:	
Application number:	REFER TO:		Permit n	umber (if diffe	erent):	22	uilding Code Act, 1992 TIC FILE # -05g	
Date received:			Roll num	ber:		0)	TAWA	
Application submitted to:	OTT (Name of municipali	AWA SE						
A. Project information		and the second	and the second second		A.S. S. S. S. S.			
Building number, street n 1353 Coker St.						Unit number	Lot/con.	
Municipality Ottawa (Osgoode)		Postal code K4P 1A1		Plan number		cription		
Project value est. \$				Area of work	(m²)			
B. Purpose of applie	cation		A.C. YACT					
New constructi Proposed use of building	on Addition existing	building	Alterat	ion/repair	D	emolition	Conditional Permit	
Commercia Description of proposed Construction of new building	work				onstruct	ion of addition	al warehouse	
C. Applicant	Applicant is:	Owner or		Authorized a	gent of o	wher		
Last name		First name						
Dillon		Adam		Paterson	Group I	nc.		
Street address 154 Colonnade Rd	. S					Unit number	Lot/con.	
Municipality		Postal code		Province		E-mail		
Ottawa (Nepean) Telephone number		K2E 7J5 Fax		ON		Cell number	ersongroup.ca	
(() (613) 226-7381		()						
D. Owner (if differer	t from applicant)							
Last name		First name		Corporation	and the second second	ship Neering Inc.		
Street address 1359 Coker St.		I				Unit number	Lot/con.	
Municipality Ottawa (Osgoode)		Postal code K4P 1A1		Province ON		E-mail mmain@dym	lech.ca	
Telephone number ⁽ 613 ⁾ 327-4867		Fax ()				Cell number ()		

Application for a Permit to Construct or Demolish - Effective January 1, 2014

Page 1

	RVCA RECEIVED	SEPTIC FILE
E. Builder (optional)		<u> 7 7 - N 5 Q</u>
Last name	First name MAR 0 4 2022 Corporation or p	partnership (if applicable) ² ² ² ⁻ ⁰ ⁵ ⁹
Street address		Unit number Lot/con.
Sileet address	REFER TO:	
Municipality	Postal code Province	E-mail
Telephone number	Fax	Cell number
()	()	()
F. Tarion Warranty Corpor	ation (Ontario New Home Warranty Program)	
	n for a new home as defined in the Ontario New Home Wa	arranties Yes No
Plan Act? If no, go to s ii. Is registration required to	under the Ontario New Home Warranties Plan Act?	
ii. Is registration required t		Yes No 🖌
	stration number(s):	
G. Required Schedules	dividual who reviews and takes responsibility for design ac	stivition
i) Attach Schedule 2 where appl	ication is to construct on-site, install or repair a sewage sy	stem.
H. Completeness and com	pliance with applicable law	
	requirements of clauses 1.3.1.3 (5) (a) to (d) of Division C	
	n is made in the correct form and by the owner or authorize	
schedules are submitted).	ompleted on the application and required schedules, and a	all required
Payment has been made of a	Il fees that are required, under the applicable by-law, reso	
	e 7(1)(c) of the <i>Building Code Act, 1</i> 992, to be paid when the	he res
application is made.	ed by the plans and specifications prescribed by the applie	
	under clause 7(1)(b) of the <i>Building Code Act, 1992.</i>	cable by-law, Yes
	ed by the information and documents prescribed by the ap	
	nade under clause 7(1)(b) of the Building Code Act, 1992	which enable
contravene any applicable lav	etermine whether the proposed building, construction or de	
	ruction or demolition will not contravene any applicable law	N. Yes 🖌 No
I. Declaration of applicant		
Adam Dillon - Pat	erson Group Inc.	declare that:
(print nan		
	ned in this application, attached schedules, attached plans	and specifications, and other attached
	o the best of my knowledge. ation or partnership, I have the authority to bind the corpor	ration or partnership
_{Date} 2/17/22	fh.	- VAR
Date Z/17/ZZ	Signature of applicant	- Augusta -
Demonstrict		
	his form and schedules is collected under the authority of subsecti rcement of the <i>Building Code Act, 1992</i> . Questions about the colle	
the Chief Building Official of the mu	inicipality or upper-tier municipality to which this application is bein	ng made, or, b) the inspector having the powers ar
	elation to sewage systems or plumbing for an upper-tier municipal ctor, Building and Development Branch, Ministry of Municipal Affai	
2E5 (416) 585-6666.		
pplication for a Permit to Construct of	or Demolish – Effective January 1, 2014	
	Dage 2	OSSO version August 20
	Page 2	COOC Version August 20

RI	1	CA	R	E	C	F	11	FI	2	

Schedu	le 1.	Desig	ner In	formatior	
ocheuu		Desiu		IUIIIaliu	

	MAR 0			ner Information
Use one form for each individual who revie A. Project Information	REFER TO:	sponsibility for design activ	vities with respect to	
Building number, street name 1353 Cok		A warden open a service a service of the service as a service of the service of t	Unit no.	SEPTIC FILF Lot/con.
1353 Cok		1		22-050
Municipality Ottawa (Osgoode)	Postal code K4P 1A1	Plan number/ other desc		0 3 3
B. Individual who reviews and takes	s responsibili			OTTAWA
^{Name} Adam Dillon		Firm Paterson Gro	up Inc.	
Street address 154 Colonnade Rd.	S.		Unit no.	Lot/con.
Municipality Ottawa (Nepean)	Postal code K2E 7J5	Province ON	E-mail adillon	@patersongroup.ca
Telephone number () (613) 226-7381	Fax number		Cell number	
C. Design activities undertaken by i	ndividual ide	ntified in Section B	() Ruilding Code To	blo 2 5 2 1 of
Division C]	nuividual ide	numeu în section B. [t	building Code Ta	DIE 3.3.2.1. OT
House	HVAC	- House	Building	Structural
Small Buildings		g Services	Plumbing	– House
Large Buildings		on, Lighting and Power	Plumbing	g – All Buildings
Complex Buildings Description of designer's work	Fire Pre	otection	X On-site S	Sewage Systems
Adam Dillon - Paterson Group Inc. (print name I review and take responsibility C, of the Building Code. I am	y for the design	work on behalf of a firm re he firm is registered, in the	gistered under subs	se one as appropriate): section 3.2.4.of Division /categories.
Individual BCIN: 19879				
Firm BCIN: 29346				
I review and take responsibility under subsection 3.2.5.of Divi Individual BCIN:	sion C, of the B	uilding Code.		as an "other designer"
Basis for exemption from	registration:			
The design work is exempt from Basis for exemption from			ments of the Buildin	ng Code.
I certify that:	-			
 The information contained in this s I have submitted this application w 				
Date 2/17/22			1150	
		Signature of Designer	Alan John	

- 1. For the purposes of this form, "individual" means the "person" referred to in Clause 3.2.4.7(1) (c).of Division C, Article 3.2.5.1. of Division C, and all other persons who are exempt from qualification under Subsections 3.2.4. and 3.2.5. of Division C.
- Schedule 1 is not required to be completed by a holder of a license, temporary license, or a certificate of practice, issued by the Ontario Association of Architects. Schedule 1 is also not required to be completed by a holder of a license to practise, a limited license to practise, or a certificate of authorization, issued by the Association of Professional Engineers of Ontario.

Application for a Permit to Construct or Demolish - Effective January 1, 2014

Page 3

Schedule 2ESewage System Installer Information

	CINCOLINE		SEDT				
A. Project Information	MAR 0 4 2022	SEPTIC					
Building number, street name 1353 Coker St.		Unit number	Lot/con. 22 - 0 5 0				
Municipality Ottawa (Osgoode) Postal cod K4P 1A1	e E Plan number/ other desc	cription	0,0				
B. Sewage system installer			OTTAWA				
Is the installer of the sewage system engaged in the b emptying sewage systems, in accordance with Buildin Yes (Continue to Section C)	nusiness of constructing on-site, ng Code Article 3.3.1.1, Division No (Continue to Section E)	C? X Installer	, servicing, cleaning or unknown at time of tion (Continue to Section E)				
C. Registered installer information (where a	nswer to B is "Yes")						
Name		BCIN					
Street address		Unit number	Lot/con.				
Municipality Postal cod	e Province	E-mail					
Telephone number Fax		Cell number					
		()					
D. Qualified supervisor information (where	answer to section B is "Ye	s")					
E. Declaration of Applicant:							
Adam Dillon - Paterson	Group Inc.		declare that:				
(print name)							
I am the applicant for the permit to construc shall submit a new Schedule 2 prior to cons OR I am the holder of the permit to construct the is known.	truction when the installer is kno	own;					
I certify that:							
1. The information contained in this schedule is	true to the best of my knowled	ge.					
2. If the owner is a corporation or partnership, I	have the authority to bind the o	orporation or partne	ership.				
2/17/22		1					
Date	Signature of applicant	Adam John					
		1					

Application for a Permit to Construct or Demolish - Effective January 1, 2014

Page 4

	2022 Do No Complete Plant # Permit # Revision # <u>2 - 0 5 9</u> Date
1. Engineered	2. Water supply
Yes	Proposed
□ No	Existing
3. Type of work proposed	4. Type of Well
New Installation	Dug/bored/Sandpoint well
Replacement	Drilled well
Alteration	Municipal
	Other
5. Residential Sewage Design Flow Info. Bedrooms	6. Sewage Design Flow Other Occupancies Design Flow 3,600 L/day Detailed sewage flow calculations: Refer to Drawing No. PH4407-2(rev.2)
	Class 4 – BMEC Area Bed (Schedule 11)
7. Type of System	Fully raised
Treatment Unit	Partially raised
Class 2 – Leaching Pit	In-ground
Class 3 – Cesspool	Class 4 – "Type A" Dispersal (Schedule 13)
Class 4 – Shallow Buried Trench	Fully raised
	Partially raised
Class 4 – Trench (Schedule 9)	In-ground
└ Fully raised	Class 4 – "Type B" Dispersal (Schedule 14)
Partially raised	Fully raised
	Partially raised
Class 4 – Filter Media (Schedule 10)	
Fully raised	L In-ground
Partially raised	Class 5 – Holding Tank (9000L min)
In-ground	Tank/TreatmentUnit/PumpChamber ONLY
	Effluent Filter/Risers ONLY

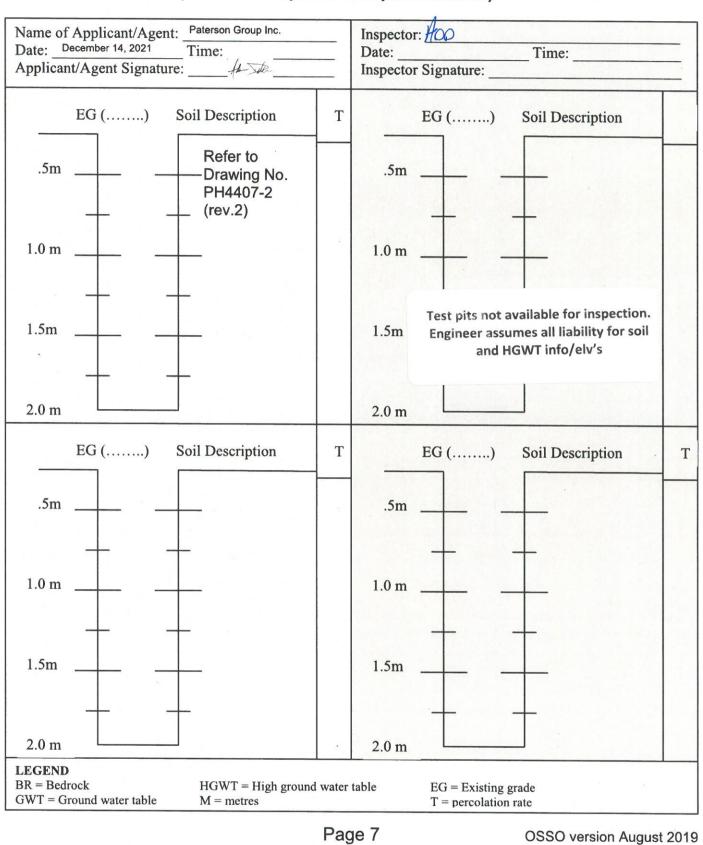
Page 5

n Office septiques d'Óttawa	REFER TO Sched wage Sys	dule 5	Revision # Date	OTTA
Гуре of System Class 4 - Туре 'А'	Dispersal Bed		(\$	chedule
Septic/Holding Tank Size: 9,400			Make: Boyd Bros.	
Septic Tank Effluent Filter Make: Tu	uf-Tite	M	odel: EF6 (or equivalent)	
Treatment Unit – Make & Model <u>V</u>	Vaterloo Bio	filter B	Γ-15,500 + WaterNOx-LS	6
Number of Units:	1		Other:	
Refer to Typical Drawing # PH440	7-1&-2(rev.2)		Pump(s) required yes	
Mantle Information:		-	Pump Rate	_L/15m
Native or imported =15m in	direction	n(s)	Note: Alarm required t	for all
			pumping systems	
Slope subgrade	% sl	ope		
	dire	ction(s)		
Site to be Scarified (If clay)	YES	/ NO - N	lo	
Clay Seal Required (If bedro	ck) YES	/ NO - I	No	
Trench				
Distribution Pipe Length	m		Shallow Buried Trench	
Loading Area	m ²		Pipe Length	m
Type of Chamber				
Length of Chamber	m		Filter Media Bed	
BMEC Area Bed			Stone	m ²
🖬 Туре А			Extended Base	m ²
П Туре В			Pipe	
Stone 78.0	m ²		Weight of Filter Media	Kg
Sand 78.0	m ²		Loading Area	m ²
Pipe 72.0m (6 @ 12.0m)				
Linear Loading				
Tank/Treatment Unit/Pump		eplace	ment ONLY	
□ Effluent Filter & Riser ONL				

	RVCA RECEIVED	
Bureau des systèmes septiques d'Ottawa	MAR 0 4 2022	Do Not Complete Permit #EPTIC FILE # Revision # Date <u>22-059</u>

Schedule 6 Soil and Water Table Information (Minimum depth of test pit: 2 metres)





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MAR 0 4 2022

Do Not Complete Permit # SEPTIC # **Revision** # Date ٥

Fixture unit count

OTTAWA

Fixtures	# Existing	+ #	* Proposed	X	unit count	=	Fixture Count
Bathroom							
Bathroom group (toilet, sink and tub							
or shower) installed in the same room		+		х	6	=	
Bathtub with/without overhead shower		+		x	1.5	=	
Shower stall		+		x	1.5	=	
Wash basin (SINK) (1 ¹ / ₂ inch trap)	2	+	1	x	1.5	=	4.5
Watercloset (TOILET) tank operated	2	+	1	x	4	=	12.0
Bidet		+		x	1	=	
Kitchen							
Dishwasher		+		x	1	=	
Sink with/without garbage grinder(s), domestic and other small type single, double or 2 single with a common trap		+		x	1.5	=	
Other							
Domestic washing machine		+		x	1.5	=	
Combination sink and laundry tray single or double (Installed on 1 ¹ / ₂ trap)		+		x	1.5	=	
*Insort the TOTAL in section 5 of School						Γot	al: ^{16.5}

*Insert the TOTAL in section 5 of Schedule 4 (0.Reg 151/13 Table 7.4.9.3)

- 1. Sump pumps and floor drains are not to be connected to the sewage system. Connection of such fixtures to a sewage system may lead to a hydraulic failure of the said system. The above mentioned fixtures should be discharged separately to an approved Class 2 (leaching pit) sewage system.
- 2. Where laundry waste is not more than 20% of the total daily design sanitary sewage flow, it may discharge to a sewage system (Part 8, OBC, 8.1.3.1(2)).

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Agent/Owner signature

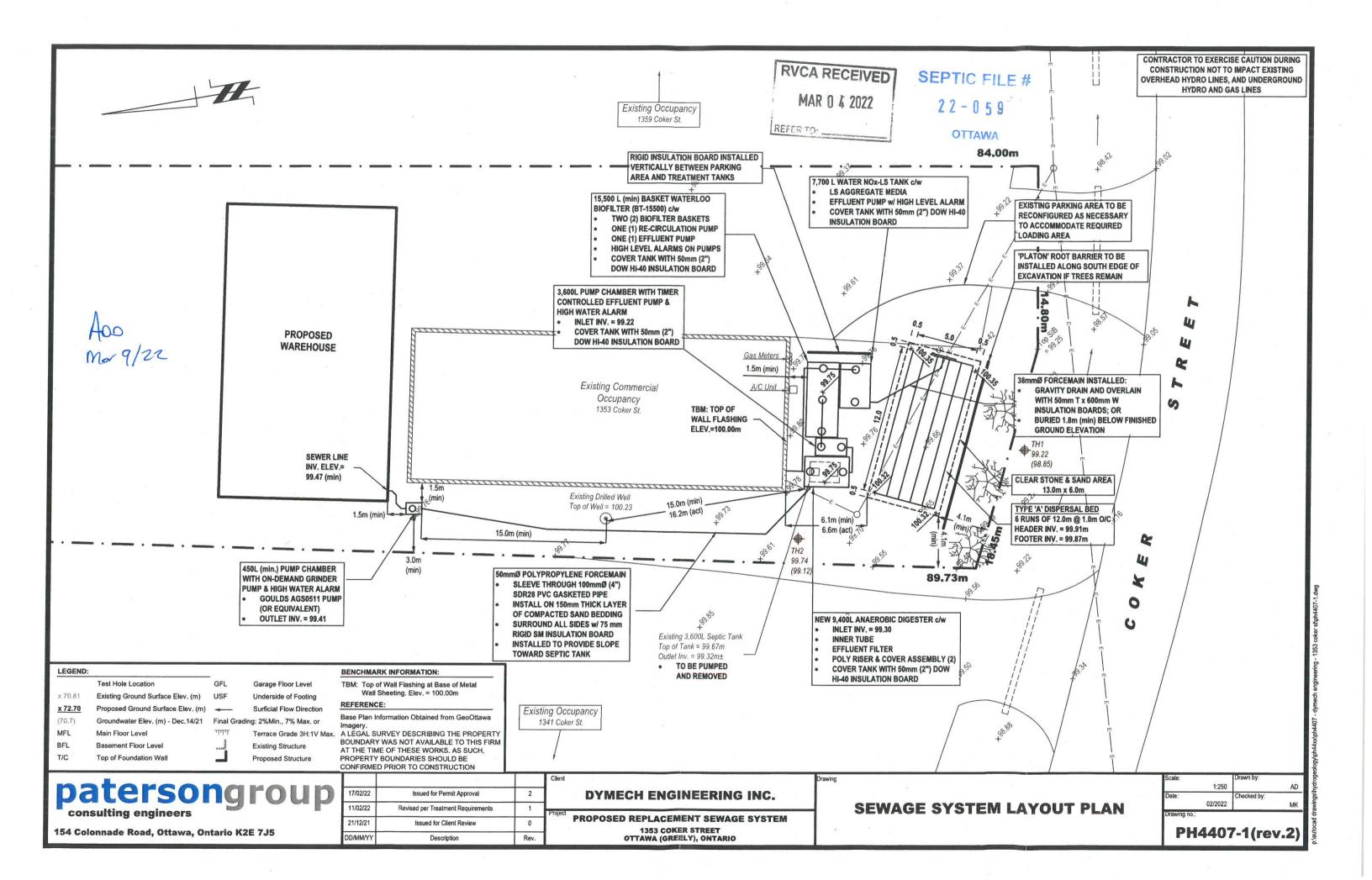
February 17, 2022

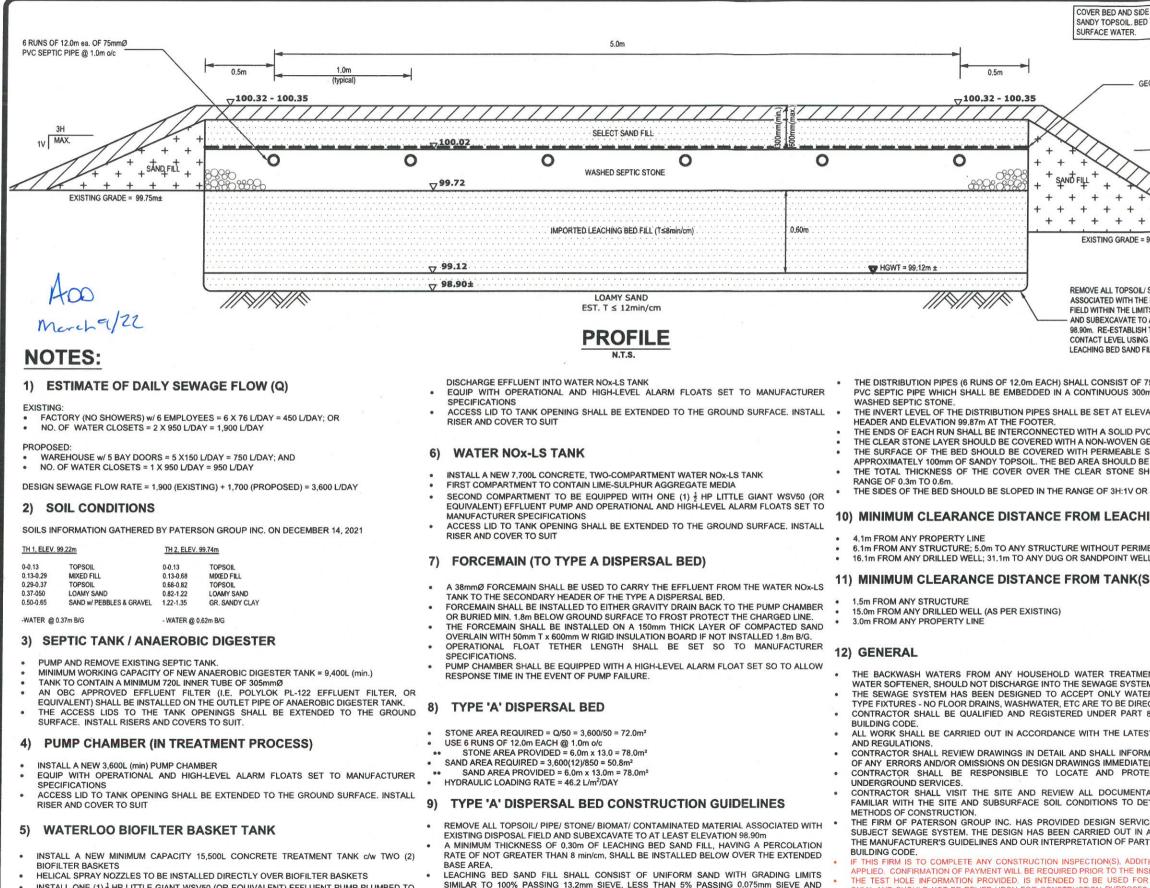
Date

OSSO version August 2019

Ottawa Septic Bureau des systèmes System Office septiques d'Ottawa

REFER TO: Schedule 8





- INSTALL ONE (1) HP LITTLE GIANT WSV50 (OR EQUIVALENT) EFFLUENT PUMP PLUMBED TO RECIRCULATE EFFLUENT TO INLET OF ANAEROBIC DIGESTER TANK
- INSTALL ONE (1) ¹/₂ HP LITTLE GIANT WSV50 (OR EQUIVALENT) EFFLUENT PUMP PLUMBED TO
- HAVING A PERCOLATION RATE OF 6 TO 8 min/cm THE LEACHING BED FILL SHALL CONFORM TO THE REQUIREMENTS OF 8.7.7.1.(4).(a) OF THE

COVER BED AND SIDE SLOPES WITH 100mm OF SANDY TOPSOIL. BED TO BE SHAPED TO SHED SURFACE WATER.	SEPTIC FILE			
0.5m GEOTEXTILE FABRIC	22-059			
V100.32 - 100.35	OTTAWA			
	RVCA RECEIVED MAR 0 & 2022			
+ + \$AND FILL + + + + + + + + + + + + + + + + + +	MAR 0 & 2022 REFER TO:			
THEWT = 99:12m ±				
REMOVE ALL TOPSOIL/STONE/PIPE/BIOMAT ASSOCIATED WITH THE EXISTING DISPOSAL FIELD WITHIN THE LIMITS OF THE SAND AREA AND SUBEXCAVATE TO AT APPROX. ELEV. 98.90m. RE-ESTABLISH THE SPECIFIED CONTACT LEVEL USING ADDITIONAL LEACHING BED SAND FILL, WHERE REQUIRED.				
THE DISTRIBUTION PIPES (6 RUNS OF 12.0m EACH) SHALL CONSIST OF 75mmØ PERFORATED PVC SEPTIC PIPE WHICH SHALL BE EMBEDDED IN A CONTINUOUS 300mm THICK LAYER OF WASHED SEPTIC STONE. THE INVERT LEVEL OF THE DISTRIBUTION PIPES SHALL BE SET AT ELEVATION 99.90m AT THE				
HEADER AND ELEVATION 99.87m AT THE FOOTER. THE ENDS OF EACH RUN SHALL BE INTERCONNECTED WITH A SOLID PVC FOOTER PIPE.	17/02/22 Issued for Permit Approval 2 11/02/22 Revised per Treatment Requirements 1			
THE CLEAR STONE LAYER SHOULD BE COVERED WITH A NON-WOVEN GEOTEXTILE FABRIC. THE SURFACE OF THE BED SHOULD BE COVERED WITH PERMEABLE SAND FOLLOWED BY	12/12/21 Issued for Preliminary Review 0			
APPROXIMATELY 100mm OF SANDY TOPSOIL. THE BED AREA SHOULD BE VEGETATED. THE TOTAL THICKNESS OF THE COVER OVER THE CLEAR STONE SHOULD BE WITHIN A	DD/MM/YY DESCRIPTION REV.			
RANGE OF 0.3m TO 0.6m. THE SIDES OF THE BED SHOULD BE SLOPED IN THE RANGE OF 3H:1V OR SHALLOWER.	patersongroup			
4.1m FROM ANY PROPERTY LINE 6.1m FROM ANY STRUCTURE; 5.0m TO ANY STRUCTURE WITHOUT PERIMETER DRAINAGE 16.1m FROM ANY DRILLED WELL; 31.1m TO ANY DUG OR SANDPOINT WELL	consulting engineers			
) MINIMUM CLEARANCE DISTANCE FROM TANK(S)				
1.5m FROM ANY STRUCTURE 15.0m FROM ANY DRILLED WELL (AS PER EXISTING) 3.0m FROM ANY PROPERTY LINE	DYMECH ENGINEERING INC.			
) GENERAL	Project: PROPOSED SEWAGE			
THE BACKWASH WATERS FROM ANY HOUSEHOLD WATER TREATMENT UNIT, SUCH AS WATER SOFTENER, SHOULD NOT DISCHARGE INTO THE SEWAGE SYSTEM. THE SEWAGE SYSTEM HAS BEEN DESIGNED TO ACCEPT ONLY WATER FROM DOMESTIC TYPE FIXTURES - NO FLOOR DRAINS, WASHWATER, ETC ARE TO BE DIRECTED TO SYSTEM. CONTRACTOR SHALL BE QUALIFIED AND REGISTERED UNDER PART 8 OF THE ONTARIO BUILDING CODE. ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH THE LATEST BY-LAWS, CODES	SYSTEM REPLACEMENT 1353 COKER ST. OTTAWA (GREELY), ONTARIO			
AND REGULATIONS. CONTRACTOR SHALL REVIEW DRAWINGS IN DETAIL AND SHALL INFORM THE CONSULTANT OF ANY ERRORS AND/OR OMISSIONS ON DESIGN DRAWINGS IMMEDIATELY. CONTRACTOR SHALL BE RESPONSIBLE TO LOCATE AND PROTECT ALL EXISTING UNDERGROUND SERVICES. CONTRACTOR SHALL VISIT THE SITE AND REVIEW ALL DOCUMENTATION TO BECOME	Drawing: SEWAGE SYSTEM DETAIL & NOTES			
AMILIAR WITH THE SITE AND SUBSURFACE SOIL CONDITIONS TO DETERMINE SUITABLE METHODS OF CONSTRUCTION. THE FIRM OF PATERSON GROUP INC. HAS PROVIDED DESIGN SERVICES ONLY FOR THE	Scale: Drawn by:			
SUBJECT SEWAGE SYSTEM. THE DESIGN HAS BEEN CARRIED OUT IN ACCORDANCE WITH THE MANUFACTURER'S GUIDELINES AND OUR INTERPRETATION OF PART 8 OF THE ONTARIO BUILDING CODE.	N.T.S. AD Date: Checked by:			
IF THIS FIRM IS TO COMPLETE ANY CONSTRUCTION INSPECTION(S), ADDITIONAL FEES MAY BE APPLIED, CONFIRMATION OF PAYMENT WILL BE REQUIRED PRIOR TO THE INSPECTION. THE TEST HOLE INFORMATION PROVIDED, IS INTENDED TO BE USED FOR DESIGN PURPOSES ONLY, AND SHOULD NOT BE RELIED UPON FOR CONSTRUCTION PURPOSES. IF DISCREPANCIES ARE FOUND DURING THE CONSTRUCTION PROCESS, IT IS THE CLIENT'S RESPONSIBILITY TO	02/2022 HV Drawing No.: PH4407-2(rev.2)			
CONTACT THIS FIRM TO MAKE ANY NECESSARY COMMENTS OR REVISIONS. ADDITIONAL REVISIONS ARE NOT CONSIDERED PART OF THE DESIGN WORKS AND WILL BE CONSIDERED AS AN ADDITIONAL COST.	p:\autocad drawings\hydrogeology\ph44xx\ph4407 - dymech engineering - 1353 coker st\ph4407-2(rev.1).dwg			

Ottawa Septic System Office Bureau des systèmes septiques d'Ottawa

Permit Part 8 – Sewage System Ontario Building Code

Do Not Comp Permit No	22-059
Revision No	
Date	
Related Applic	cation

nspected & Recommended by: _	ALEX DEKLEINE		Owner:	DYMECH EN	MECH ENGINEERING INC		
spection Date & Time: MARCH 9, 2022		Weather:SUNNY					
Civic Address:	1353 COKER ST						
Osgoode: 🗙	CUMBERLAND:		Gloucester				
number of bedrooms:			fixture units:				
inished floor area:			_ Q:	3600	115	L/da	
pretreatment tank	9400	L	weigh bills fo	or	🗖 yes	по	
effluent filter	N/A	_	grain size analysis required		🗇 yes	no no	
oump rateAS PER WATE	RLOO BIOFILTER	_ L/15 MIN	site to be scarified		🗇 yes	🔳 no	
reatment unit Waterloo Biofi	lter BT-15,500	-	clay seal insp	pection	🗇 yes	no no	
number of units 1		<u></u>	mantle requi	red	🗇 yes	no	
			sub-grade inspection		yes	🗖 no	
bipe 6 RUNS OF weight of sand Manager, Septic System Approvals	ype B 78 78 12M @ 1M O/C	m ² m ² kg	stone extended pipe weight o loading a Class 5 Class 5	f filter media f filter media area f Holding Tank Tank Only _ Permit Date:	URCH	kg	
Comments:	ESA p only valid for three years from: :	ermit # required m date of issue	e ei	ngineer to verify			

NOTE: For further details, refer to corresponding application.