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Building Science

November 20, 2024 File: PH4407-LET.01.REV.05.

Dymech Engineering Inc. 1359 Coker Street, Ottawa (Greely), ON K4P 1A1

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

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.

File: PH4407-LET.01-REV.05.

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

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).

File: PH4407-LET.01-REV.05.

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.

File: PH4407-LET.01-REV.05.

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: GROUNDWATE	R MICROBIOL	OGY & GEN	ERAL GEOCI	HEMISTRY	
	000000	OD	ws	T\	W1
PARAMETER	UNITS	LIMIT	TYPE	GW1 (4 hr) 2022-02-03	GW2 (8.5 hr) 2022-02-03
MICROBIOLOGICAL	panya a magamata ma ma				2 0.0000
Escherichia Coli (E.Coli)	ct/100mL	0	MAC	0	0
Total Coliforms	ct/100mL	0	MAC	0	0
GENERAL CHEMICAL - HE	ALTH RELATI	ED			
Fluoride (F)	mg/L	1.5	MAC	0.16	0.15
Ammonia (N-NH ₃)	mg/L	5	-	< 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
pH	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 (S ₂)	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

TABLE 2b: GROUNDWAT	ER GEOCHEMI	STRY - META	ALS	_	
		OD	WS	Т	W1
PARAMETER	UNITS	LIMIT	TYPE	GW1 (4 hr) 2022-02-03	GW2 (8.5 hr) 2022-02-03
Volatiles	•			•	•
Aluminum (AI)	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	-	1/2	< 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	_	1/2	< 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	-	Na	< 0.0001	< 0.0001
Uranium (U)	mg/L	0.02	MAC	< 0.001	< 0.001
Vanadium (V)	mg/L	-		< 0.001	< 0.001
Zinc (Zn)	mg/L	5.0	AO	< 0.01	< 0.01

1. ODWS identifies the following types of parameters:

MAC = Maximum Acceptable Concentration

IMAC = Interim Maximum Acceptable Concentration

AO = Aesthetic Objective

OG = Operational Guideline

2. Shaded Concentration Indicates an Exceedance of the ODWS Objective

TABLE 2c: GROUNDWATER GEO	CHEWISTRY -			1	
1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		OD	WS	T	W1
PARAMETER	UNITS	LIMIT	TYPE	GW1 (4 hr) 2022-02-03	GW2 (8.5 hr) 2022-02-03
VOCs Surrogates		3			
1,2-dichloroethane-d4	%	-		110	120
4-bromofluorobenzene	%	-	-	82	73
Toluene-d8	%	-	-	119	103
Volatiles					and the same
1,1,1,2-tetrachloroethane	μg/L	-	-	< 0.5	< 0.5
1,1,1-trichloroethane	μg/L	-	-	< 0.4	< 0.4
1,1,2,2-tetrachloroethane	μg/L	-	-	< 0.5	< 0.5
1,1,2-trichloroethane	μg/L	-	-	< 0.4	< 0.4
1,1-dichloroethane	μg/L	-	- 0	< 0.4	< 0.4
1,1-dichloroethylene	μg/L	14.0	MAC	< 0.5	< 0.5
1,2-dichlorobenzene	μg/L	200.0	MAC	< 0.4	< 0.4
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	6-0	-	< 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	120	28	<10	<10
Methyl Isobutyl Ketone (MIBK)	μg/L	1-0	-0	<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

1. ODWS identifies the following types of parameters:

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IMAC = Interim Maximum Acceptable Concentration

AO = Aesthetic Objective

OG = Operational Guideline

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:

Hardness (As CaCO ₃)
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.

File: PH4407-LET.01-REV.05.

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.

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

File: PH4407-LET.01-REV.05.

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:

Existing Building:

□ Factory (no showers) with 6 employees = 6 x 76 L/day = 450 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

☐ 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
٥	Concentration of nitrate in effluent with treatment (Value based on tertiary treatment system with 90% nitrate reduced)	4 mg/L ction)
	Surplus Water (The surplus water value was estimated based on Environmer values with a soil type comprised of fine sandy loam (Urban L sources.)	
	Combined infiltration factor based on:	0.70

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.

Topography infiltration factor

Soil texture infiltration factor

Cover infiltration factor

0.30

0.30

0.10

File: PH4407-LET.01-REV.05.

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.

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.

November 20, 2024

ERIK ARDLEY PRACTISING MEMBER
. 3667 .

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.



FIGURE 1

KEY PLAN

316/50 UTM / 18 Z 4 5 5 1 / 18 0 E 6 5 R 1V5 0 1 1 6 1 1 9 N Ontario Water Resources Commission Act ONTARIO WAT Basin 2 5 Just Caple TorTownship, Village, Town or City... Date completed 26 dress RR2 Osgoode Casing and Screen Record **Pumping Test** Static level Inside diameter of casing..... Total length of casing. Test-pumping rate Pumping level Type of screen Duration of test pumping..... Length of screen Water clear or cloudy at end of test Cloucly Depth to top of screen Recommended pumping rate Diameter of finished hole with pump setting of..... feet below ground surface Water Record Well Log Depth(s) at Kind of water To ft. From which water(s) (fresh, salty, Overburden and Bedrock Record grey limestone /s⁻ 55-68 Fresh For what purpose(s) is the water to be used? Location of Well In diagram below show distances of well from house road and lot line. Indicate north by arrow. Is well on upland, in valley, or on hillside? Up /anc/ Drilling or Boring Firm..... McLean Water Supply Litet Address 1532 Raven Ave Conc IV Ollowa 3 Licence Number 1686 Name of Driller or Borer H. Sally 26 Conc III f Licensed Drilling or Boring Contractor) Conc III WOT 6 Form 7 15M-60-4138 OWRC COPY

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The Ontario Water Resources Commission Act

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MATERIAL MATERIAL	2 10	TER RECORD	51 CASING & OPEN HOL	E RECORD	SIZE(S) OF OPENING	31-33 DIAMETER 34-	75 38 LENGTH 31
TO THE TITLE WITHOUT THE TITLE WATER SUPPLY STATE OF WELL FROM ROAD AND THE STATE OF WELL FROM	WATER FOUND		INSIDE WALL DIAM MATERIAL THICKNESS	DEPTH - FEET	MATERIAL AND TYPE	DEPTH TO T	
STATIC WATER STATE SOURCE STATE STAT		CALTY 4 UMINERALS	10-11 1C#STEEL 12	13-16	S	OF SCREEN	FEET
SOURCE S	15-14 1	FRESH 3 SULPHUR 4 MINERALS	4 dopen Hole	0 59		NG & SEALING RE	CORD
1	20-23 1	FRESH 3 SULPHUR	17-16 1 STEEL 15	_	FROM TO	MATERIAL AND TYPE	CEMENT GROUT. AD PACKER, ETC)
PRIMPING TEST METHOD ALL TO PUMPING MATE TO PUMPING ASTE TO THE DURATION OF PUMPING TO THE DURATION OF PUMPING TO THE DURATION OF WELL CONTRACTOR TO THE DURATION OF THE DURATION OF PUMPING TO THE DURATION OF THE DURATION O	25.20	SALTY 6 GAS	6 3□ CONCRETE 40 OPEN HOLE 5□ PLASTIC		0" 59"	CENTON GEOR	178
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TI IN PUMP * DALLER HOTE STATIC WATER LEVEL SURING STATIC LEVEL POWER PUMPING STATIC LEVEL POWER STATIC SHAPE STATIC SHAPE STATIC	1 1 L	FRESH 4 DMINERALS	4□open Hole		20-29 30-33	PRSSUR GIER	lad)
STATIC LEVEL WATER LEVEL DURING PUMPING PU	71	77.~	1 15-16 () 17		LOCATION	OF WELL	
LEVEL PUNNING 19-31	STATIC	WATER LEVEL 25 END OF WATER I	PUMPING	IN DIA			AD AND
TECH FLEET F		PUMPING 1 22-24 15 MINUTES	RECOVERY 30 MINUTES 45 MINUTES 60 MINUTES			i.	
SHALLOW DEEP SETTING FEET RATE GPM 50-53 FINAL STATUS OF WELL OF WELL STATUS OF WELL OF WELL STATUS OF W		T FEET W	ET FEET FEET FE		WN DE T		N
FINAL STATUS OF WELL STOCK STATUS	GIVE RATE		40	11	<i>y</i>		
FINAL STATUS	RECOMMENDED PU	MP TYPE RECOMMENDE PUMP	AD 43-45 RECOMMENDED 44	11 :	5		
STATUS OF WELL 1					**************************************		
STATUS OF WELL Test hole Operatering Operatering Operatering		1 -		UM#3	2		
WATER USE DOMESTIC COMMERCIAL STOCK MULICIPAL MULICIPAL		3 TEST HOLE	7 UNFINISHED		150		
WATER USE IRRIGATION PUBLIC SUPPLY	. 100-1	1 LJ DOMESTIC	_	7			
METHOD OF CONSTRUCTION ACCOUNT OF CONSTRUCTION MANAGE OF WELL CONTRACTOR MANAGE OF WELL CONTRACTOR METHOD OF CONSTRUCTION METHOD OF		3 IRRIGATION	7 ☐ PUBLIC SUPPLY ■ COOLING OR AIR CONDITIONING	1			
OF OF OR POTARY (CONVENTIONAL) DIAMOND DIA			9 NOT USED	Jane	1. 7	4 N. Om	a P
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NAME OF WELL CONTRACTOR SOURCE		ON 4 D ROTARY (AIR)	DRIVING		. W	21	1043
STANTON DRILLING INC LICEROFO SOURCE 4875 JUN 21 1988 ADDRESS PAN 479 GREEZY, ONT.	NAME OF WELL			ES DATA	58 CONTRACTOR 59	62 DATE RECEIVED	63-68
D ADDRESS ORED OVT.	5 STAN	UTON DRILLIA	16 MC 4875	SOURCE	4875	JUN 21	1988
	ADDRESS FOY	429, GRE	EZY, OUT.	O DATE OF INSP	INSPECTO	•	
NAME OF WELL TECHNICIAN WELL TECHNICIAN'S DARMARS	NAME OF WE	LL TECHNICIAN	WELL TECHNICIAN				
SIGNATURE OF TECHNIQUEN CONTRACTOR SUBMISSION DATE	SIGNATUR	TECHNICIAN CONTRICTOR	SUBMISSION DATE		X		-
MINISTRY OF THE ENVIRONMENT COPY DAY ALO NO OF THE PORM NO. 0506 (117)	LUIC	VOETUE ENVICE		4			506 (11/86) FORI

0506 (07/94) Front Form 9

Osgoode Address P.O. Box 124 Greely Ontario K4P 1N4 Northing RC Elevation RC Basin Code ii iii v LOG OF OVERBURDEN AND BEDROCK MATERIALS (see Instructions) Brown Soil Brown Clay Gray Clay Gray Sand, Gravel, & Boulders Layered Osgoode Address Date completed 23day 10 month 97: April 10 month 97: Completed 23day 10 month 97: April 10 month 97: Completed 23day 10 month 97: April 10 month 97: Completed 23day 10 month 97: April 10 month 97: Clay See Fill 0 4 Packed 4 9 Sticky 9 34 Sticky 9 34 Sticky 51 62			Township/Borough/City/Town/Villa	age Con block tract s	urvey, etc. Lot	2:-2
LOG OF OVERBURDEN AND BEDROCK MATERIALS (see instructions) LOG OF OVERBURDEN AND BEDROCK MATERIALS (see instructions) BECOM Soil Core mainties Cray Clay Cray Clay Cray Sand, Cravel, 6 Boulders Linestone Gray Linestone Medium 62 76 Cray Linestone Gray Location John John John John John John John John	ounty or District	·	Osgoode	4		5
LOG OF OVERBURDEN AND BEDROCK MATERIALS (see instructions) Chem address Chem address				complet	ed 23day 10 mont	
Log of OverBurden Note common material Chem materials		1		AC Elevation AC Basin Code III	iii	iv i l l
Accum Soil Loose Fill Q 4 Packed 4 9 Scray Clay Sand, Gravel, 8 Boulders Cray Limestone Limestone Marie RECORD Marie RecORD Marie RecORD Limestone Marie RecORD Marie RecORD Marie RecORD Marie RecORD Limestone Marie RecORD Marie Re				10		
BROWN Clay Clay Sticky 9 34 Stray Clay Sticky 9 34 Stic	ieneral colour					
BECOM Clay Sticky 9 34 Gray Clay Sticky 9 34 Gray Linestone Layered 51 52 Gray Linestone Medium 62 76 WATER RECORD Medium 62 76 Water of the following of	Dance and	Soil		Loose Fill		4
Sticky Sand, Gravel, & Boulders Layered Stary Linestone Medium Stary S			,	Packed	4	_9
Sand, Gravel & Boulders Layered 51 62 62 76		-		Sticky	9	34
Layered State of Comment Comme	-	-	& Boulders		34	51
Limestone Medium 62 76				Layered	51	62
WATER RECORD Mariner found	-			Medium	62	76
WATER RECORD WATER RECORD Wind of water Feel Supply Supply	sea _j					
WATER RECORD WATER RECORD Wind of water Feel Supply Supply						
WATER RECORD WATER RECORD Wind of water - feet Suphur Suphu						
WATER RECORD WATER RECORD Water found Water stand of water						
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WATER RECORD State found Grad of water Gr						اللل
Martin M	10 14		32 43 43 45 HOLE PEC	34		
Contraine Cont		Inside	Wall De	URD (Clat No.)		
Control Cont		Fresh ³ Sulphur ¹⁴ inches	inches From	To Material and type	Depth at top o	f screen
	2 🗆	Salty 6 Gas	2 Galvanized 3 Concrete	8		feet
Pumping test method Salatic level Water levels during Pumping rate Salatic level Water levels during Pumping water Salatic level Water levels during Pumping water Salatic level Salat	1.0	4 ☐ Minerals Salty 6 ☐ Gas	5 Plastic	20-23		
Static fevel General County Static fevel General County General	20-23 1 🗆	Fresh ³ Sulphur ²⁴	2 Galvanized 3 Concrete	Depth set at - feet Material and ty		
Subject Subj	25-28 1	Fresh ³ Sulphur ²⁹ 0 1/0		10-13 14-17	to (6)	
Pumping test method No Pumping rate Pumping rate No Pu	2 []	Salty 6 Gas	2 Galvanized	18-21 22-25		
Pumping test method Name Pumping rate Pumping rate Name Pumping rate Pumping Pum	2 🗆	Fresh Sulphur Sulphu	4 🗌 Open hole	26-29 30-33 80		
Static level water level end of pumping 2 water levels during 1 Pumping 2 Recovery end of pumping 15 minutes 30 minutes 23-31		11-14	Duration of pumping 37-18	I OCATION OF WELL		
Static level end of pumping vieter levels until y vieter levels until vieter lev	Pump 2	Bailer 50 GPM		In diagram below show distances of well fro	om road and lot li	ne.
Signed 20 feet 716 miset 518 miset		nd of pumping water levels during	45 minutes 60 minutes			/
Shallow Deep 35 feet 5 GPM	10.01	26-28 29-31				· · · · · · · · · · · · · · · · · · ·
Shallow Deep 35 feet 5 GPM	10.01		L PANHAGI PANH 1991 IN			
Shallow Deep 35 feet 5 GPM	10.01	te Tump intake out at	Water at end of test		1	
WATER USE Domestic Stock G Municipal 10 Other		GPM fee pump type Recommended 43-45	Water at end of test t □ Clear □ Cloudy Recommended 46-49			
WATER USE Domestic Stock G Municipal 10 Other	5 8 Meet If flowing give ra Recommended	GPM fee pump type Recommended pump setting Deep 2 5 6 7 7 8 7 8 7 9 7 9 7 9 7 9 7 9 7 9 7 9 7	t Clear Cloudy Recommended pump rate	Creeky so		
WATER USE Domestic Stock G Municipal 10 Other	5 8 Meet If flowing give ra Recommended Shallow	GPM fee pump type Recommended pump setting Deep 35 feet	t Clear Cloudy Recommended pump rate	Greely Stral		لم ا
WATER USE Domestic Stock G Municipal 10 Other	5 8 Meet If flowing give ra Recommended Shallow 5-53	GPM fee pump type Recommended 43-45 pump setting 35 fee S OF WELL ply 5 Abandoned, insufficient on well 6 Abandoned, poor quality	Water at end of test Clear Cloudy Recommended pump rate GPM Unfinished	Greely Stral		点
METHOD OF CONSTRUCTION Cable tool S Air percussion 9 Driving	19-21 5 1 8 Meet If flowing give ra Recommended Shallow 5-53 FINAL STATUS Water sup Water sup Cobservation Test hole	GPM fee pump type Recommended pump setting Deep 35 fee SOF WELL 54 Abandoned, insufficient on well 5 Abandoned (Other)	Water at end of test Clear Cloudy Recommended pump rate GPM Unfinished	Green Stranger		say Dr
METHOD OF CONSTRUCTION Cable tool S Air percussion 9 Driving	19-21 5	GPM fee pump type Recommended pump setting GOF WELL Standard Sta	Water at end of test Clear Cloudy Recommended pump rate GPM Unfinished	Greeny Stranger	 9생비	Kway Dr
Cable tool 5 Air percussion 9 Driving 1 Cable tool 5 Boring 10 Digging 10 Digging 11 Other	19-21 19-2	GPM fee pump type Recommended 43-45 pump setting 35 feef SOF WELL 54 puly 5 Abandoned, insufficient 7 Abandoned (Other) well 8 Dewatering 55-56 5 Commercial 6 Municipal	Water at end of test Uater at end of test Cloudy Recommended 46-49 pump rate Supply 9 Unfinished y 10 Replacement well	Greely Stranger		arkway Dr
Cable tool 5 Air percussion 9 Driving 10 Rotary (conventional) 6 Boring 10 Digging 10 Digging 11 Other	19-21 19-2	GPM fee pump type Recommended pump setting 35 fee SOF WELL 54 ply 5 Abandoned, insufficient on well 6 Abandoned (Other) well 8 Dewatering 555-56 SOF WELL 54 Abandoned (Other) by 5 Dewatering 555-56 SOF WELL 54 Abandoned (Other) SOF Abandoned (Other) Public supply	Water at end of test Clear Cloudy Recommended 46-49 pump rate Supply 9 Unfinished Peplacement well Peplaceme	Greeky Strice Industrice Total Total Total		Parkway Dr
S Rotary (reverse) 7 Diamond 11 Other	19-21 19-2	GPM fee pump type Recommended pump setting GOF WELL Standard Sta	Water at end of test Clear Cloudy Recommended 46-49 pump rate Supply 9 Unfinished Peplacement well Peplaceme	Greely Strains		Baraway Dr
	19-21 19-2	GPM fee pump type Recommended 43-45 pump setting 35 fee SOF WELL 54 Abandoned, insufficient 7 Abandoned (Other) well 8 Dewatering 55-56 SOF WELL 54 Abandoned (Other) Well 8 Dewatering 55-56 SOF WELL 54 Abandoned (Other) Dewatering 55-56 SOF WELL 54 Abandoned (Other) Public supply 8 Cooling & air conditioni CONSTRUCTION 57 Di 5 Air percussion Boring Boring	Water at end of test Clear Cloudy Recommended 46-49 pump rate Supply 9 Unfinished y 10 Replacement well 9 Not used 10 Other	Greely Stranger		Parkway
Name of Well Contractor Well	19-21 19-2	GPM fee pump type Recommended pump setting GOF WELL ply 5 Abandoned, insufficient Abandoned (Other) well 6 Abandoned (Other) well 7 Dewatering 55-56 5 Commercial 6 Municipal 7 Deblic supply 8 Cooling & air conditioni CONSTRUCTION 57 Air percussion onventional) 6 Air percussion onventional 7 Diamond	Water at end of test Clear Cloudy Recommended 46-49 pump rate Supply 9 Unfinished y 10 Replacement well 9 Not used 10 Other	Greeky Strice Industrice 76'8"71"		Parkway

Miller TOO97
Submission date
day24 mo 10 yr 97

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Print only in space Mark correct box	ces provided. x with a checkmark, where applic	able. 11	153181	6 Municipality	29 GON 100
County or District	i wa Carle to	Township/Borough/City	_	Con block	tract survey, etc. Lot 25-
LUTTA	Waca / G TD	OS 9 DO d			9 3 4 4 Date completed 07 02 01
21	01	Northing	RC Elevation		completed day month ye
21	Ť 100	12 17 18 18 DE OVERBLIEDEN AND BERL	24 25 26	30 31	
General colour	Most common material	OF OVERBURDEN AND BEDI Other materials	HOCK MATERIALS (See	General description	Depth - feet
	Sand	boulders	, , , , , , , , , , , , , , , , , , , ,	·	6 36
aseu	1 mestage	D000000, 3			35 142
CYPU	Sandstone				142 240
9.07	72111101010				
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	,				
ų					
31			بالبلبلياك		
	4 15 21 51 51	CASING & OPEN HOLE	BECORD I	54 Sizes of opening 31-33	65 75 3 Diameter 34-38 Length 39-4
Water found at - feet	Kind of water Inside	Wall Material thickness			inches fee
Ø 9 ¹⁰⁻¹³	Fresh 3 Sulphur 14 inche		Depth - feet From To	Material and type	Depth at top of screen
	Fresh 3 Sulphur 19 Salty Salty Salty Salty	Concrete Copen hole Sopen lose So	0 44		feet
20.22	3 C Sulphur 24	8 1 🗆 Steel 19	20-23	Annular space	SEALING RECORD Abandonment
2 €	Salty 6 Gas	3 □ Concrete 4 ☑ Open hole 5 □ Plastic	0 42	From 10	and type (Cement grout, bentonite, etc.
2 [☐ Salty 6 ☐ Gas	14 P	27-30	Z-13 44-17 Cex	next Grow
	☐ Fresh 3 ☐ Sulphur 34 60 ☐ Salty 6 ☐ Gas	3	42 240	26-29 30-33 80	
Pumping test m	nethod 10 Pumping rate 6	Duration of pumping 15-16 17-18 Hours Mins		LOCATION OF W	ELL
Static level V	Water level end of pumping 25 Water levels during	1 ☐ Pumping 2 ☐ Recovery	In diagram be Indicate north	elow show distances of warrow.	well from road and lot line.
S (19-21)	22-24 15 minutes 30 minute 2	9-31 45 minutes 32-34 60 minutes 35-37			old 1
feet of flowing give ra	feet Lefet O	feet			Prescott in
Recommended p	GPM	feet Clear Cloudy 3-45 Recommended 46-49	Thunc	lerbird	02
☐ Shallow	pump setting 7 7	pump rate 5 GPM		wim	
FINAL STATUS	S OF WELL 54			•	
¹ ₩ Water sup ² □ Observation	on well 5 ☐ Abandoned, insufficie 6 ☐ Abandoned, poor qua		/		
3 ☐ Test hole 4 ☐ Recharge				07 km	
WATER USE 1 Comestic 2 Stock	55-56 5 Commercial	9 ☐ Not use			
2 Stock 3 Irrigation 4 Industrial	6 ☐ Municipal 7 ☐ Public supply 8 ☐ Cooling & air condition	10 Cther			1
	CONSTRUCTION 57	¥7 ₄₀	;		
1 ☐ Cable tool 2 ☐ Rotary (co	I 5 Air percussion	⁹ ☐ Driving ¹⁰ ☐ Digging			
3 ☐ Rotary (re 4 ☐ Rotary (air	everse) 7 Diamond	11 Other			229481
Name of Well Centre	ractor	Well Contractor's Licence No.	Data 58 C	Contractor 19 59-	62 Date received 63-68
Address II -	Tosain	10 '\\\ +	Date of inenection	Inspector	APR 1 8 2001
Name of Well Techn	nician Der, Ur	Well Technician's Licence No.	Remarks		
Signature of Technic	ician Surcel	12122 Submission date 28 07 01	Remarks		CSS.ES1
I 15.0	$\langle 1 \rangle /$	14K 07. O1	 		

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Municipality	Con.		
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County or District	we Carlet	lon	Township	/Borough/City/7	own/Village	9		Con block	tract survey	, etc.	Lot 25-27
, , , , , ,			Address	- / (1	na OP	eely	AWF	Date completed	06 day	month year
21	Ų			Northing I	LAN	RC Elevi		Basin Code		iii	iv
1 2	U T 10	LOG OF OV	ERBURDEN	AND BEDR	OCK MAT	ERIALS (s	ee instructi	ons)			47
General colour	Most common materi			er materials				description		De From	pth - feet To
Brown	Sand		with	Some		pres				0	5-1
Grey	Clay		with	Some	stor	105				5	39'
Grey	Gravel		Co 4	150					1.	39	60'
						ļ	THE SECTION SE				
				<u> </u>		 				-	
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							-				
31			للتنا ا		ــــا ك		لنا لنا		بنا لبل	Щ	لا لبلبا
	4 15 21		32		ا ليا		54		11-33 Diameter	34-38 L	75 80
Water found at - feet	ER RECORD Kind of water	51 C Inside diam	ASING & O Material	PEN HOLE F Wall thickness	Depth			op 0	1	inches	ength , ³⁹⁻⁴⁰ 4 feet
19 13 1 [Fresh 3 Sulphur 14	inches 10-11 1 [Steel 12	inches	From	13-16	Material Material	and type	c \$.//	l .	op of screen 30
3 2 L	Salty 6 Gas Fresh 3 Sulphur 19 Minerals	8 3	Galvanized Concrete Open hole		0	20	7/4		3/7//		
20.00	Saffy 6 ☐ Gas Fresh 3 ☐ Sulphur 24	17-18 1 2	☐ Plastic ☐ Steel ☐ Galvanized		12	57		PLUGGING Annular space		□ Abando	
2 [Salty 6 Gas	3 [4 [4 [☐ Concrete ☐ Open hole ☐ Plastic	188	+2	> /	Prom	To Mate	erial and type (Co		
1 1 1	☐ Salty 6 ☐ Gas	24-25 1 [2 [☐ Steel 26 ☐ Galvanized		c 2'	60	30 13	04-17 8	Degs	h g	h lart
	☐ Fresh 3 ☐ Sulphur 34 60 □ Galty 6 ☐ Gas	4 4	☐ Concrete COpen hole ☐ Plastic	!	57	60	26-29	30-33 80			
Pumping test ri	nethod 10 Pumping rate	11-14	Duration of pump	oing Arro			10	CATI ON OF	WEII -		, _ []
	Water level 25 Water levels			0 17-18 Mins 2 □ Recovery		In diagrar		w distances		roa 54	ot line.
79-21 P	ena ot pumping	30 minutes 4	15 minutes 32-34	60 minutes 35-37		lindicate ii		w. 1 .	.	7	437
	16 feet 13 feet	13 _{feet}	1 4 feet	16 feet			K		Shop	,	
If flowing give r	GPM GPM	8 feet 43-45	Water at end of te	Cloudy 46-49					2/11/		
Recommended		30 feet	Recommended pump rate	10 GPM				3			3 '
50-53	IS OF WELL 54							> >			
	pply 5 Abandoned ion well 6 Abandoned	, poor quality	ly ⁹ ☐ Unfinis)			3			Δ'
3 ☐ Test hole 4 ☐ Recharge		(Other)					Gree	4 14	hq		<u> </u>
WATER USE	55-56 5 Commercia	I	9 🔲 Not us	e	*;	¥		•			
2 ☐ Stock 3 ☐ Irrigation 4 ☐ Industrial			10 🗌 Other			3					
METHOD OF	CONSTRUCTION 57				$ \cdot _{\mathcal{O}}$	-					:
1 ☐ Cable too 2 ☐ Rotary (c	ol 5	ion	9 ☐ Driving	g							
3 ☐ Rotary (n 4 ☑ Rotary (a			11 🗆 Other			1				22	7486
Name of Well Cont	tractor	0 1/1	Well Contract	tor's Licence No.	> Date	a rce *	58 Contractor	ΛΛΛ	59-62 Date rec	eived	63-68 80
OLY MP Address	Tractor PIC PIZILLINIS CRIVENS RD. Inician US RENWICH	11 -	100	-	Sou Date	e of inspection	4	Inspector	JUL	. 17	2001
2320 S	CRIVENS RD.	MIETCA	Life O	ian's Licence No	A USE	narks		<u></u>		•••	
WAYN	Je Renwici	/ _~	32	7	MINISTRY	- vertice				CSS	.ES1
Signature of Techn	nician/Contractor		Submission of day mo	eate:	Z Z						
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Municipality 509	Con.		Y 4
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County or District				Borough/City/	Town/Village)		Con block	tract survey	, etc. Lo	t 25-27
Ottawa Ca	ariston		Address)sgoode	-		····		Date	t	48-53
			1545 F	River Ro	ad Ma	ontick		o K4M 1B Basin Code	completed 2	7day 11 m	ontiO2year
21	U T M 10	نيا لــــــــــــــــــــــــــــــــــــ					ليا لىن	31			11111
1 2	10	LOG OF O	/ERBURDEN	AND BEDR	OCK MAT	ERIALS (se	ee instruct	ions)			
General colour	Most common materia	al	Othe	r materials			Genera	al description		Depti From	n - feet To
Brown	Sandy Soi	1								0	4
		. 1					Wet			4	12
Gray	Sand & Gra						VIC. C			12	30
Gray	Sandy Clay			. 3 . 7			1:3-A			30	58
Gray	Sand, Gra		BO	ılders			Wet	<u> </u>	<u></u>	58	160
Gray	Limestone										
Gray & W	hite SAndstone									160	223
										 	
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31			لسسا ك		بينا ل		نيا ليا		حيا ليل		ا لىلى
32	4 15	1111	السيال	ىلىل	ـــــــا كــــــا		54		65		75 80
41 WATE	R RECORD	51 (CASING & OF	Vall	RECORD Depth	- feet			Diameter	34-38 Leng	•
at - feet	Kind of water □ Eroch ³ □ Sulphur ¹⁴	diam inches	Material	thickness inches	From	То	Materia	al and type	· · · · · · · · · · · · · · · · · · ·	Depth at top	of screen 30
ו וי ו	☐ Fresh Gaiphul Minerals Gas		Steel 12 Galvanized	.188	+ 1.5	6516	ပိုင်				feet
15-18	Fresh 4 Minerals	4	☐ Concrete☐ Open hole☐ Plastic				61	DI LICCING	& SEALING	PECOPO	· ·
20.22	☐ Salty 6 ☐ Gas ☐ Fresh 3 ☐ Sulphur 24	17-18 1	Steel 19 Galvanized			20-23		Annular space		Abandonn	
	☐ Salty 6 ☐ Gas	5 7/8 4	☐ Concrete X Open hole		65	223	Depth set From	To Mate	erial and type (Ce	ment grout, b	entonite, etc.)
	☐ Fresh 3 ☐ Sulphur 29 ☐ Salty 6 ☐ Gas		☐ Plastic ☐ Steel 26			27-30	64 64	14-17 0 Gco	uted - Cent	ent (1)	
20.22	Saity 6 Gas Fresh 4 Minerals 60	3	☐ Galvanized ☐ Concrete ☐ Open hole			1	18-21 26-29	22-25	Ber	ntanite ((3)
2 [☐ Salty 6 ☐ Gas	5	☐ Plastic								
Pumping test n		11-14 10 GPM	Duration of pumpi	ng 17-18 Mins			LC	CATION OF	WELL		
Chatic level	Water level 25 Water levels			☐ Recovery		In diagran	n below sho	ow distances	of well from r	oad and lo	t line.
Static level	ena ot pumbina i			60 minutes 35-37		indicate ii	oran by and	7₩ .			1
5 34'67eet	75 feet 220 feet		150 feet	75 feet							
34°67eet	rate 38-41 Pump intake set		Water at end of tes ☐ Clear	at 42		2	<u>ئې</u>				
Recommended		43-45	Recommended pump rate	46-49	i	6000	~	, * 69	39	o .	12
☐ Shallow	Deep pump setting	150 feet	pump rate	5 GPM		4	~ <u> </u>			3' 1	1
FINAL STATU	IS OF WELL 54					/20		į	6	ı	Old Prescon Hay
1 Water sup 2 Dobservati			oly ⁹ ☐ Unfinish					1		1	13
 ³ ☐ Test hole ⁴ ☐ Recharge 	⁷ ☐ Abandoned	(Other)						i		1	S
WATER USE	55-56										C'
1 Domestic 2 Stock	5 Commercial 6 Municipal		9 🔲 Not use			`		l .		: 1	10
3 ☐ Irrigation 4 ☐ Industrial								1			Ž
METHOD OF	CONSTRUCTION 57						m	10 Keor	`	j	
1 ☐ Cable too 2 ☐ Rotary (c		ion	9 Driving 10 Digging	ı						ţ	
3 □ Rotary (re 4 🙀 Rotary (g	everse) ⁷ Diamond		11 🗆 Other							250	522
			I W 5				58 Contractor		59-62 Date rece		63-68 80
Name of Well Cont	eter Supply Ltd		Well Contracto	or's Licence No.	Data sour			558	1		XX2
Carden 1 M	CHES CHARLEY LILLS				110			Inspector	, , , , ,		
Capital W Address					i ji Date	of inspection		Inspector			
	ox 490 Stitts	ville,	Ontario Well Technicia	K2S 1A6	I NSE	a of inspection		inspector			
Address P.O. B	ox 490 Stitts	ville,	Ontario Well Technicia T0097 Submission da	n's Licence No.	NSE			inspector	<u> </u>	:S.E	02

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0506 (07/00) Front Form 9

Well Record Regulation 903 Ontario Water Resources Act

 Questions regarding con 	npleting this application can ts shall be reported to 1/10	be directed to	g. Further instruction the Water Well Mar	ns and explanations are a nagement Coordinator a Ministry U	
Well Owner's Information	and Location of Well Inf	ormation	MUN 500	7 CON CON	04 LOT 06
Address of Well Location (County	y/District/Municipality)	Tow	nship	: Lo	t Concession
RR#/Street Number/Name	Carleton		059000	· · · · · · · · · · · · · · · · · · ·	64
·-···	· - · · · · · · · · · · · · · ·		ity/Town/Village	Site/Comp	partment/Block/Tract etc.
GPS Reading NAD Zor	8 USSAIN SO	thing 1.633	Init Make/Model	Mode of Operation: Ur	ndifferentiated Averaged fferentiated, specify
Log of Overburden and Bo	edrock Materials (see ins	tructions)			Trovortated, openity
General Colour Most common	material Other M	aterials	G	Seneral Description	Depth Metres F <u>rom</u> To
Clay				·	0 10.00
gley sand	Stono	- -	<u> </u>	·- · ··· ·- · · · · · · · · · · · · ·	10.06 15.2
gied limost	Mone		·		15.24 41.76
					
··· · · · · · · · · · · · · · · · ·	<u></u>		i —		
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			<u>i</u> .		
			• •	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
Hole Diameter	Con	struction Recor	·d	Te	st of Well Yield See Attack
Depth Metres Diameter	Inside	Wall	Depth Metre	Division to at an attention	
From To Centimetres	diam Material centimetres	thickness centimetres	From To	Subpunt	7 Time Water Level Time Water Level min Metres
0 41.76 15.24		Casing		Pump intake set at - (metres)	Static 2.66 9.85
	Steel Fibreglass	· · · · · · · · · · · · · · · · · · ·		Pumping rate -84	1 5.66 1 8.18
Water Beeard	15.88 Plastic Concrete	.478	0 18.	Duration of pumping	20202
Water Record Water found Kind of Water at Metres	Galvanized Steel Fibreglass			hrs + mi	2 0 2 7 70
ivieties ff m/FreshSulphur	Plastic Concrete	' .		Final water level end of pumping	3 3
Gas Sally Minerals Other: A Sally Controls	Galvanized	· · · · · · · · · · · · · · · · · · ·		Recommended pump	
m Fresh Sulphur	Steel Fibreglass	i		type. Shallow Dee	ep ep
Gas Salty Minerals Other:	Plastic Concrete Galvanized			Recommended pump deptil metre	s 8 18,37 8 4.96
m Fresh Sulphur		Screen	· · · · · · · · · · · · · · · · · · ·	Recommended pump	10 19.98 10 4.60
Gas Salty Minerals Other:	diam Steel Fibreglass	Slot No.		rate. (litres/min) If flowing give rate -	16 22.82 16 3.89
After test of well yield, water was	Plastic Concrete Galvanized	: :		(litres/min)	20 24.14 20 3.67 25 19.42 25 3.87
Other, specify 000	1 <u>-</u>	Casing or Scree		If pumping discontinued, give reason.	30 15.98 30 3.47
· · · · · · · · · · · · · · · · · · ·	Open hole	Jasing of Scree	···	, 	40 11.66 40 3.19 50 10.32 50 3.10
Chlorinated Yes No-	Cperi noie		8.541.1		60 994 60 3.04
Plugging and Se Depth set at - Metres Material and two		Valence	ndonment In diagram	Location	
From To Material and typ	pe (bentonite slurry, neat cement slurry	y) etc. (cubic r	Indicate no	orth by arrow.	from road, lot line, and building.
18.3 0 Ceme	ent growt stu	114 250	games	Parkwa	011
				tanhua	4KC!
					· 7 k
				12 km	o2km
	Method of Construction	i			1211
☐ Cable Tool ⁵ ☐ Rotary (☐ Rotary (☐ Rotary (conventional)	•		igging Other	;	RICI
Rotary (reverse) Boring	Driving				HIESOT
☐ Domestic ☐ Industria	al Public Supp		Other		Ka.
Stock Comme	ercial Mot used	1			
☐ Irrigation ☐ Municipa	Final Status of Well	air conditioning	Audit No.	Z 04877 D	ate Well Completed
☐ Water Supply ☐ Recharge we			· • • • • • • • • • • • • • • • • • • •	von overior a implifications	ate Delivered YYYY MM DD
☐ Observation well ☐ Abandoned. Test Hole ☐ Abandoned.	insufficient supply Dewatering poor quality Replaceme		package de	elivered? Yes Ne	NA
	tractor/Technician Informatio	on 'ell Contractor's Lice	ence No. Data Sour	ce Ministry Us	ontractes -
ANKOCK DIL	NRIDUCI	1119			1119
Business Address (street name, numb	er, city etc.)		Date Rece	ived 7772004MM DD Da	ate of Inspection YYYY MM DD
Name of Well Technician (last name, l	inst name) W	ell Technician's Lic	ence No. Remarks	W	ell Record Number
こうれしひ リゾンハーキ		1000	i l	176 1 1 1	

Date Submitted

Signature of Technician/Contractor

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Ontario Ministry of the Environ	Well Tat A 033	ber below)	Regulation 903 Ont	Well Record
Instructions for Completing Form	A03:	37950	integuration 555 Circ	page of
• For use in the Province of Ontario				
 All Sections must be completed in fe Questions regarding completing this 	application can be directed to the			
 All metre measurements shall be Please print clearly in blue or black i 			Ministry Use Onl	у
Well Owner's Information and Local	tion of Well Information	MUN	ON	LOT
C, +y of 6 170	me	037000x		
RR#/Street Number/Name	Masodin Ci	ty/Town/Millage	Site/Compartme	nt/Block/Tract etc.
GPS Reading NAD Zone Easting	Northing Ur 1934 E 5012414		e of Operation: Undifferent	tiated Averaged
Log of Overburden and Bedrock Ma	terials (see instructions)			
General Colour Most common material	Other Materials	Gener	al Description	Depth Metres From To
brown topsoil	Luca of Ann		504 F	1,02 10.36
good Sand Trans	Taylor Clay		Ported	10.36 14.93
green grand			Parted	14.93 16.45
grey listesthe			layered	16.45 30,48
	2		No.	
		,		
Hole Diameter	Construction Record	A .	Test of V	Vell Yield
Depth Metres Diameter Inside	Wall	Depth Metres	Pumping test method Dr	aw Down Recovery
From To Centimetres diam centimetres	Material thickness centimetres	From To	JYH.P.Sub min	Water Level Time Water Level Metres min Metres
17 27 20.19 1555	Casing		Pump intake set at - Static (metres) 2 4 Level Pumping rate - 1	4,61 5.47
Water Boord 15.55	Steel Fibreglass Plastic Concrete	40.60 17.37	(litres/min) 3 8	1
Water Record Water found at Metres Kind of Water	Galvanized 0-48	0.60 17.27	Duration of pumping 2hrs + min	2
30 m Fresh Sulphur	Plastic Concrete		Final water level end of pumping metres	5,21 3
Gas Salty Minerals Other:	Galvanized Steel Fibreglass	· ·	Recommended pump 4	4
☐ m ☐ Fresh ☐ Sulphur ☐ Gas ☐ Salty ☐ Minerals	Plastic Concrete		Shallow Deep Recommended pump 5	5121 5 469
Other: Sulphur	Galvanized Screen	4	depth. 2 \(\psi \) metres Recommended pump 10	5.36 10 11.81
Gas Salty Minerals Outside diam	Steel Fibreglass Slot No.		rate. (litres/min) 15 If flowing give rate - 20	536 15 5,43 20
After test of well yield, water was	Plastic Concrete Galvanized		(litres/min) 25 If pumping discontin- 30	545 25 5.46 30
Other, specify	No Casing or Scree	n	ued, give reason.	5 48 40
Chlorinated Yes No	Open hole	17.37 30.48	50 60	5 48 50 1 5 Ma 60
Plugging and Sealing Recor	Valuma	ndonment	Location of We	
Depth set at - Metres Material and type (bentonite sl	urry, neat cement slurry) etc. (cubic n		w show distances of well from ro by arrow.	ad, lot line, and building.
0 1638 cener gr	/ 00	7-11		
				rike
Method of C			South V. 1/6976	
Cable Tool Rotary (air) Rotary (conventional) Air percussion		Digging Dither	South # 6976	A statement of the state of the
Rotary (reverse) Boring Wate	☐ Driving —— r Use		803	
Domestic Industrial Stock Commercial	Public Supply	Other	buel	1
☐ Irrigation ☐ Municipal Final Stat	Cooling & air conditioning	Audit No. Z	28003 Date Wel	Completed
Water Supply Recharge well	Unfinished Abandon	ed, (Other) Was the well of package deliver	wner's information _ Date Deli	vered YYYY MM DD
Observation well Abandoned, insufficient su Test Hule Abandoned, poor quality Well Contractor/Tec	Replacement well		Ministry Use On	ly
Name of Well Contractor	Well Contractor's Lic		Contract	
Business Address (street pame, number, city etc.)	1414	Date Received	MM DD Date of Ir	nspection YYYY MM DD
Name of Well Technician (last hame, filst name)	Well Technician's Lic	cence No. Remarks		cord Number
Signature of Techniquan/Contrat or		MM 27	William Control of the Control of th	
X Mille Donn	000 05		Cette formu	le est disponible en français
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	Ministry of he Environment	Well 1 A 022	umber belo	·	Well Record
		Anas	1972	Regulation 903 Onta	rio Water Resources Act page of
	of Ontario only. This			I nt. Please retain for future refe	erence.
	pleting this application	n can be directed to		s and explanations are available agement Coordinator at 416-2	
Please print clearly in blue		o in to or a metre.	KALINI .	Ministry Use Only	LOT
Address of Well Location (County)	District/Municipality)	Tow	nsnip 059 ond	Lot	Concession
RR#/Street Number/Name	onth VILLE	TGE DK	ity/Town/Village	Site/Compartmen	-1265 SLO
GPS Reading NAD Zon	454113	50123381	Init Make/Model	Mode of Operation: Undifferentiate	
Log of Overburden and Be General Colour Most common		ee instructions) Other Materials	Ge	eneral Description	Depth Metres From To
Sano	Fil				0 1.2
clay	5a	noi			6.1 14.9
grey limes	otone				14.9 24.4
		6			
Hole Diameter Depth Metres Diameter	Inside	Construction Reco	rd Depth Metre		W Down Recovery
From To Centimetres	diam Materi centimetres		From To	SubPun Time	Water Level Time Water Level Metres min Metres
0 24,4 14,91		Casing		Pump intake seat Static (metres) Level Pumping rate 1	434 753
	Plastic		0 17.	(litres/min)	6,85 2 4.72
Water Record Water found Kind of Water at Metres		Fibreglass		hrs + min Final water level end 3	7,01 3 4.69
Gas Salty Minerals Other:	Plastic Galvanized			of pumping metres Recommended pump 4	7.19 4 4.66
Fresh Sulphur Gas Salty Minedals	Steel Plastic	Fibreglass Concrete		type. Shallow Deep Recommended sump 5	7.84 5 4.62
Other: State Sulphur	Galvanized	Screen		depth netres Recommended pump 10	7.38 10 A.So
Gas Salty Minerals Other;	i diam	Fibreglass Slot No.		rate. (litres/min) 15 1	142 15 4.50
After test of well yield, water was	Plastic Galvanized	1 1		(litres/min) 25 If pumping discontinued, give reason.	7.47 25 4.46 7.48 30 4.44
Other, specify Loudy	Open hole	No Casing or Scre		$ \begin{vmatrix} 40 \\ 50 \end{vmatrix}$	150 40 4 40 150 50 4.47
Chlorinated Yes □ No Plugging and Se			17.1 24.9	Landin of Wo	7,53 60 4 40
Davids and at Matura	pe (bentonite slurry, neat cer	nent olumu) etc Volume	Placed In diagram Indicate no	below show distances of well from roa	nd, lot line, and building
17.114.0 reas	t cement		816 190	C FOREST A	16958 SOUTH VILLAGE DRIVE
14.0			LAN LAN		VILLAGE
					DEINE
Cable Tool Rotary	Method of Construction		Digging	akm	
Rotary (conventional) Rotary (reverse) Boring	D	etting	Other South	testas'	
Domestic Industri	=		Other BEN		
☐ Stock ☐ Comme ☐ Irrigation ☐ Municip		ot used cooling & air conditioning	Audit No.		Completed MM DD N
Water Supply Recharge w	rell U		ned, (Other) Was the v	well owner's information Date Delig	
☐ Test Hole ☐ Abandoned,	· · · · · =	eplacement well		Ministry Use Onl	У
Name of Well Centractor		Well Contractor's L	11		119
Business Address (street name, numl	chmon	d, Oth	Date Received		spection YYYY MM DD
Signature of Technician (last name,		Date Submitted	MM Da	vven Rec	ुई
0506E (09/03)	Contractor's Co	py	Well Owner's Copy	Cette formul	e est disponible en français
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	linistry of ne Environment	Well Tag Number (F		Regulation 903 Onta	Well Record
Instructions for Completing	g Form	A-02-864			page of
 For use in the Province of All Sections must be composition of Questions regarding compositions. All metre measurements. Please print clearly in blue. 	pleted in full to avo pleting this applicat s shall be reported	id delays in processing ion can be directed to t	น. Further instructions ar	nd explanations are available	on the back of this form. 235-6203.
Well Owner's Information	or black link offig.	rmation		ON	LOT
First Name County/District/Municipality		Mail /City/Town/Village	617 L		Number (include area code)
Address of Well Location (County/D		· · · · · · · · · · · · · · · · · · ·	nship OSGOOLE	Lotens	Concession
RR#/Street Number/Name GPS Reading NAD Zone	DUTH VILL Easting	ASE DR C	ity/Town/Village 5/ eel nit Make/Model Mod	e of Operation: Undifferenti	T
Log of Overburden and Bed			rriagula	Differentiate	ed, specify
General Colour Most common m		Other Materials	Gener	al Description	Depth Metres From To
grey Imed	tore gr	avel.		· · · · · · · · · · · · · · · · · · ·	12.8.29.6
gren limest	tone 5a	ndstone	mixe		29.6. 54.9
		····································			
				· · · · · · · · · · · · · · · · · · ·	·
Hole Diameter Depth Metres Diameter		Construction Record	d	Test of W	
From To Centimetres	Inside diam Mater		Depth Metres	Sunatime	w Down Recovery Water Level Time Water Level
0 54.9 15.07	centimetres	centimetres Casing	From To	Pump intake set at - Static (metres) Level	Metres min Metres
	[Fibreglass		Pumping rate - 1 (litres/min) 20, 28	2.95 1 36.15
Tyvater journa / Kind of Motor [Plastic Galvanized	, 48	0 15.2	Duration of pumping 2	3,93 2 34.77
Fresh Sulphur	Steel Plastic	Fibreglass Concrete		Final water level and 3 of pumping 3	4.82 3 33.64
Gas Salty Minerals Other:	Galvanized Steel	fibreglass	· · · · · · · · · · · · · · · · · · ·	Recommended pump 4	5.68 4 32.47
Gas Galty Minerals	Plastic Galvanized	Concrete		Recommended pump 5	16.53 5 3053
Other:		Screen		Recommended pump 10	20.15 10 27.20
Gas Salty Minerals Other:	Outside Steel Plastic	Fibreglass Slot No.		rate. (litres/min) 15 If flowing give rate - 20	25,44 20 21.90
After test of well yield, water was Clear and sediment free	Galvanized			(litres/min) 25	27.62-25 20.14 29.3730 18.24
Other, specific Loty	Open hole	No Casing or Scree		ued, give reason. 40 50	32.7340 /6.58 35.2250 14.98
Chlorinated Yes No			4.6 54.9	60	37.51 60 14-11
Depth set at - Metres Material and type ((bentonite slurry, neat cer			Location of Well w show distances of well from road	
14.6 11.6 Ceme	nt Sh		52	y altow.	7~
11.60 pent	nonhe su	erry 044	South Beach	4693	5
			Blud	South Village	
Met	thod of Construction	on	160, 1	150'	
☐ Cable Tool ☐ Rotary (air ☐ Rotary (conventional) ☐ Air percus ☐ Rotary (reverse) ☐ Boring	ssion		eigging Other		
Domestic Industrial	· · · · · · · · · · · · · · · · · · ·	ublic Supply	ther		
Stock Commercia Irrigation Municipal		ot used ooling & air conditioning	Audit No. Z	23357 Date Well	XXXX TWW TUD
Water Supply ☐ Recharge well ☐ Observation well ☐ Abandoned, ins ☐ Test Hole ☐ Abandoned, po	sufficient supply D	nfinished Abandone ewatering eplacement well	ed, (Other) Was the well over package delivered	vner's information Date Delive	
	actor/Technician In	····	ence No. Data Source	Ministry Use Only Contractor	
Business Address (street name, number,	city etc.)	1119 1,71	Date Received	7774 2005 DD Date of lins	119
Name of Well Technician (last name, first	et name)	Well Technician's Lice		Well Reco	d Number
Signature of Technician/Contractor		Date Submitted YYYY	MM DD		
0506E (09/03)	Contractor's Co	py Ministry's Copy	Well Owner's Copy	Cette formule	est disponible en français

(マ) Ontario Ministry of **Well Tag Number** A 025715 Well Record the Environment Regulation 903 Ontario Water Resources Act A028715 Instructions for Completing Form page ___ of 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. Ministry Use Only Otawa (an Leton Street Number Name Reading OSG TO de City Jown/Village outh Vi Mage City/Town/Village Unit Make/Model Northing 5012421 Mode of Operat magie 8 3 Log of Overburden and Bedrock Materials (see instructions) Most common material General Colour Other Materials General Description gravel sand 1, mestone Sandstone Hole Diameter **Construction Record Test of Well Yield** Depth Metres Diameter Recovery Pumping test method Inside Draw Down Wall Depth From Centimetre Material diam thickness Time Water Level Time Water Lev Subamp From centimetres Τo Metres min min 15,24 Pump intake set at (metres) Casing 10.0k umping rate -Steel Fibreglass 22.80 (litres/min)) 5 Plastic Concrete 14.0 Duration of pumping S Galvanized Water Record 12.58 22.03 ater found Metres <u> 1</u> hrs +_ Kind of Water Steel Fibreglass Final water level end of pumping 35 ro Fresh Sulphur Plastic Concrete Salty Minerals Other: Recommended pump Steel Fibreglas type.
Shallow Dee Fresh Sulphur Recommended pump depth 51 . & metres Plastic Concrete Galvanized Sulphur Minerals Recommended pump rate. (litres/min) Fresh Salty m 10 16,65 10 13,4 15 18.44 20 19.92 Outside 15 11.28 20 10.39 Steel Fibreglass Slot No. Other: diam If flowing give rate 20 19.93 20 10.39 25 21.05 25 10.18 30 23.04 30 10.15 40 23.5240 10.13 50 24.63 50 10.11 60 25.43 60 10.08 Plastic Concrete After test of well yield, water was (litres/min) Galvanized Clear and sediment free d If pumping discontinued, give reason. Other, specific Coudy No Casing or Screen 54.9 Chlorinated XYes 13.4 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 Indicate north by arrow. 10,4 reat cement shury 11362 **Method of Construction** Cable Tool Rotary (air) Diamond Digging Rotary (conventional) Air percussion Jetting Other Rotary (reverse) Boring Driving Water Use Industrial Domestic Public Supply Other Stock Commercial Not used Irrigation Municipal Cooling & air conditioning 23364 Final Status of Well Was the well owner's information Water Supply Recharge well Unfinished Abandoned, (Other Abandoned, insufficient supply □ Dewatering package delivered? Abandoned, poor quality Replacement well Ministry Use Only Well Contractor/Technician Information Data Source ММ DD Remarks _ Well Record Number Cette formule est disponible en français Contractor's Copy Ministry's Copy Well Owner's Copy

	stry of Environment	Well Tag A 03	6132	₃r below)	Regulati	on 903 Onta	Well R	
Instructions for Completing F	orm	A036	136	<u> </u>			page	of
 For use in the Province of O All Sections must be completed Questions regarding completed 	Intario only. This ted in full to avoid	d delays in processin	g. Further in	nstructions and	l explanations a	re available	on the back of	f this form.
 All metre measurements sh Please print clearly in blue or 	nall be reported					ry Use Only		
Well Owner's Information and	·	ell Information	MUN	CC	N		LOT	
RR#/Street Number/Name ++ 6934 South GPS Reading NAD Zope	h Villege Easting	e Drive	City/Town/Vil	odel Mode	of Operation:	AM- ∫ Undifferentia	ated Ave	11-14
8 3 10 Log of Overburden and Bedro	CK Materials (s	60(2309) see instructions)	Mag	elby		Differentiate	d, specify	
General Colour Most common mate	erial	Other Materials		General	Description		Depth From	Metres To
	nd 800	vel					0 9	12.
- AL	ay line	stone					1011	45.10
						-		
		,			1.			
Hole Diameter Depth Metres Diameter		Construction Reco		Metres	Pumping test r	Test of W		Recovery
From To Centimetres	nside diam Mater itimetres	ial Wall thickness centimetres	Depth From	To	0.0		Water Level Time	1
O 45,72 15.07 Cent	umeres	Casing		1	Pump intake s (metres)	Static Level	10.20	1275
		Fibreglass		, -2	Pumping rate - (litres/min)	1	11.13 1	11.43
Water Record	Plastic Galvanized		0	14.63	Duration of pur	nping 2	11.46 2	1100
Water found at Metros Kind of Water	Steel	Fibreglass			Final water lev		1165 3	1102
Gas Selfy Minerals	Galvanized				of pumping Recommended	metres pump 4	1178 4	10.87
m Fresh Sulphur	Steel Plastic	Fibreglass Concrete			type. Shallow Recommended	Э беер	1187 5	10.78
Gas Salty Minerals Other:	Galvanized	1			depth 2	menes	,, Q	10.70
m Fresh Sulphur Gas Salty Minerals O	Outside Steel	Screen Fibreglass Slot No.			Recommended rate. (litres/mir	1 15	338 15	0.47
Other:	diam Plastic	Concrete			If flowing give ((litres/mir	<u> </u>	1250 20 1256 25	
Colean de divolet man T	Galvanized				If pumping disc ued, give reaso	ontin- n. 40	362 30	10,00
Other, specify	X Open hole	No Casing or Scre		45,72		50	12 JI 50	
Chlorinated Yes No Plugging and Sealin			pandonment	4-2	L	ation of We	12.75 60	
Depth set at - Metres Material and type (be		mont clumy) etc. Volum	ne Placed c metres)	In diagram below				uilding.
1400 1097 Next (emost S	ury is	316	indicate florar by	v show distances of arrow.	CIT &	TH)
1097 0 pertor	uite Slu	x129 .3	63	1 105	ses)	*//		
				Lake		128	1.24	TW
						なる		
Cable Tool Rotary (air)	_	on Diamond	Digging		ر. د	D C	1	
Rotary (conventional) Air percussion Rotary (reverse) Boring		etting	Other		69 <i>#</i>	7/-	_D)
X Domestic	Water Use □ p	Public Supply	Other		#	3/18	6°	
Stock Commercial	ı 🗀 N	lot used ——Cooling & air conditioning		Audit No. 🛶	0004.4	Date Well		
Fi	nal Status of Well		oned, (Other)		39914 vner's information	Date Deliv	ODOĞ vered yayı	<u> </u>
Observation well Abandoned, insu	ufficient supply 🔲 🛭	Dewatering Replacement well		package delivere		No	2006	كالقر
	ctor/Technician Ir		icence No	Data Source	Minis	try Use Onl	or	
Name of Well Contractor RIU		Veil Contractor's 1	2	1)000/	1	119	hana
Business Address (street pame, number, o	Chor	OT KOA	270	APR 2	2006, ММ			MM DD
Name of Well Technician (last name, ilist)	name)	Well Technician's	Licence No.	Remarks		vvell Reco	ord Number	
Signature of Pechnician/Contractor	>	Date Submitted YYYY	0405					
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		Ministry of ne Environ		Well Tag	Number (Place		int number below)	Regulati	on 903 (Ontario			ecord
Instructions	s for Completin	g Form			A035399			·			pa	age _	of
For use ifAll SectionQuestionAll metro	in the Province o ons must be com ns regarding com e measurements	of Ontario apleted in fu pleting this s shall be	ull to avoic application reported	d delays on can b	in processir e directed to	ng. Further i the Water	instructions and	l explanations a nent Coordina	are avail	able oi 16-23	n the bac	ck of	this form.
	rint clearly in bluer's Information			lell Info	rmation	MUN	CC		1 030	Jy	L	OT	
First Name	S imormation	Last Name		en inio	Ma		s (Street Numbe			ssion)	<u></u>		
County/District	Custom Build /Municipality Carleton	ding	Township/ Kana		n/Village	Př		P.O. Box 7 I Code X 3C5	73010 Teleph 613		lumber (ir	nclude	e area code)
	II Location (County/	District/Mun	icipality)	,		wnship			Lot	_	Conces	sion	
RR#/Street Nu	Ottawa Carleton O R#/Street Number/Name City/							Site/	Compart	ment/E	Block/Tra	ct etc	
Lot 23 GPS Reading	South Villa		· · · · · · · · · · · · · · · · · · ·	North	ing	Gr Unit Make/M	reely lodel Mode	of Operation:	Undiffe	erentiate	ed 🐷	Avera	aged
Lagrat Over	8 3 18				124B3	Garmin			Differe	entiated,			
General Colour				Other Ma			Genera	I Description	,		Depti		Metres
	_							· ·			Fron	n .	1.21
brown	sand sand & gra	nvol					wet				1.21		3.04
gray	clay	aver		<u> </u>			packed				3.04	1	11.88
gray	sand & gra	avel					packed				11.88		13.10
gray	limestone	410.									13.10		48.76
	white sands	stone									48.76		95.09
		1									<u></u>		
	Diameter letres Diameter			Cons	truction Rec			Pumping test n			Il Yield Down		ecovery
From	To Centimetres	Inside diam	Mater	ial	Wall thickness	Depth	Metres	' "	Ī	Time Wa	ater Level	Time	Water Level
0 1	4.93 22.75	centimetres			centimetres	From	То	submers: Pump intake se	etat-Is	Static	Metres	min	Metres
1	95.09 15.23		Steel	Fibreglass	Casing			Pumping rate -).95 L	evel 1	10.32	1	10.21
		15.86	Plastic	Concrete				(litres/min) 54		2 1		2	
Water found at Metres	r Record / Kind of Water		Galvanized		0.48	+.45	14.93	1 _hrs +	min		10.32		10.22
	Fresh Sulphur		Plastic	-		i		Final water lever of pumping	⊢ ⊢	3 1	10.33	_3_	10.22
Gas 94GtHs	Salty Minerals		Galvanized	t				Recommended	pump	4 1	10.33	4	10.23
82.90	Fresh Sulphur		Steel	, , ,				type. Shallow	Deep				
Gas L	Salty Minerals		Plastic Galvanized					Recommended depth. 45		5 1	10.33	5	10.22
NOT TEST	Fresh Sulphur				Screen			Recommended	pump	1 -	10.33		10,222
Gas Gher:	Salty Minerals	Outside diam		Fibreglass	Slot No.			lf flowing give			10.33 10.34		10.22
_	ll yield, water was		Plastic Galvanized		. 7			(litres/min	h)	25	10.34	25	10.20
Clear and se					asing or Scr	een		If pumping disc ued, give reaso	n. -	30 1	10.34	30 40	10.19 10.19
			Open hole							50	18:34	50	10.19
Chlorinated _		15.23	Open hole			14.93	95,09				10.34	60	10.19
Depth set at - M	Plugging and Se			Annula		bandonment ne Placed	In diagram below	Loc v show distances	ation of of well fro		lot line, ε	and bu	ilding.
From	To Waterial and typ				(CGD)	c metres)	Indicate north by				····		
14.93	O Groute	d Benton	nite SI	lurry	1.38	m3			1	rot	23	i i	
					· · ·		本		•			i	
							当				×	Ŋ	l
									1		well a back	<i>X</i>	ł
	N	Method of C				¬	Prescati				D	•	
Cable Tool Rotary (conv	entional) 📮 Air perd	(air) mud cussion	=	Diamond etting		_l Digging _l Other	H						
Rotary (reve			r Use	Priving				11.					
Domestic	Industri			Public Supp	oly [Other	ð	south 111	age	,			l
Stock Irrigation	Comme			Not used	ir conditioning		1				Completed		
	L_INIUTIICIP		us of Wel					<u> 39272</u>			200	6	03 30
Water Suppl	• =	ell insufficient su		Jnfinished Dewatering		loned, (Other)	Was the well ov package delivere	vner's information ed? Yes		Deliver	red ∽	YYY K	MM DD
Test Hole	Abandoned,	poor quality	F	Replaceme	nt well		L:		try Use	Only			
Name of Well C		tractor/Tec	nnician II		on 'ell Contractor's	Licence No.	Data Source	MILLIN	Con	tractor	: K .		
Capital	Water Suppl	y Ltd.			1558		Date Received	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		a of Insp		3	NARA
	ss (street name, numb		in Fac	146	14 4 14 1 14 1		APR 1	9 2006 I	DD Date	, or msp		YYY 	MM DD
	Stittsville echnician (last name,	first name)	_ 	W	ell Technician's	Licence No.	Remarks		Wel	Record	d Number		
	Stephen opnician/Contractor			Da	T0097 ite Submitted YYY								
	nan	Cont	ractor's Co		200	6 03 31	ner's Copy		Cette fo	rmule	est dispo	nible	en français

Ontario Min the	mistry of Well Tag	^ў д 036046	below)	Regulation 903 Onta	Well Record
Instructions for Completing	Form	Ansk	146	, , ,	page of
 Instructions for Completing I For use in the Province of O 		ent is a permanent lega	I document. P	」 lease retain for future refe	
 All Sections must be comple Questions regarding comple 	leted in full to avoid delays	in processing. Further	instructions and	d explanations are available	on the back of this form.
 All metre measurements s 	shall be reported to 1/10 th		vven Manager	Ministry Use Only	
Please print clearly in blue of Well Owner's Information an		MUN MUN		ON MINISTRY USE ONLY	LOT
well Owner's information an	id Location of Well Info				
thub.	o leto	USS	ode		4
RR#/Street Number/Name	t Village	City/Town/V		Site/Compartmer	nt/Block/Tract etc/
GPS Reading NAD Zone	Easting North	hing Unit Make/N	lodel Mode	of Operation: Undifferent	iated Averaged
8 3 1 3 1 3 3 1 3 3 1 3 3	rock Materials (see inst	tructions)	Slon	Differentiate	ed, specify
General Colour Most common ma			Genera	I Description	Depth Metres From To
50	nd 80 Bonk	ders			0 15,85
	rk Grey Li	me stone			15,85 24,69
Hole Diameter Depth Metres Diameter		struction Record			Well Yield aw Down Recovery
From To Centimetres	Inside Material	Wall Depth thickness	Metres	Time	Water Level Time Water Level
0 24,69 15,23 0	entimetres	centimetres From	То	Pump intake separa Static	Metres min Metres
	Steel Fibreglass	Casing		(metres) Level Pumping rate - 1	5. A 1 A 36
	Plastic Concrete	,48 0	18.89	(litres/min) Duration of pumping 2	5.16 2 4.01
	Plastic Concrete Galvanized Steel Fibreglass		10.	hrs +_Omin	5,10 2 4.01
Fres OSulphur	Plastic Concrete			Final water level and of pumping metres	5,19 34,16
Gas Salty Minerals Other:	Galvanized			illettes	5,00 4 4.11
Fresh Sulphur	Steel Fibreglass Plastic Concrete			Shallow Deep Recommended pump 5	5,04 5 4.08
Gas Salty Minerals Other:	Galvanized			depth metres	
m Fresh Sulphur Gas Salty Minerals	Outside Stool Eibrogloop	Screen		Recommended pump 10 rate. (litres/min) 15	5,30 10 4,00 5,33 15 3,99
Other:	diam Steel Fibreglass Plastic Concrete	Slot No.		If flowing give rate - 20	5.35 20 3.97
After test of well yield, water was	Galvanized			(litres/min) 25 If pumping discontinued, give reason.	5.39 30
Other, specify	No C	Casing or Screen	-	404	5 40 40 5 41 50
Chlorinated Xes No	Open hole	17,68	324,69	60	542 60
Plugging and Seali	ing Record Annula	-		Location of We	
From To	(bentonite slurry, neat cement slurry	/) etc. Volume Placed (cubic metres)	In diagram below Indicate north by		
1768 14,63 Nest	Coment Sturr	1.1816	Lak	e forest Wo	1K U
14,63 0 Bent	Drute Sluft	y .858			14
				1070	
				South Vilka	e lakm
Met ☐ Cable Tool ☐ Rotary (air)	thod of Construction			South Ville	
Rotary (conventional)	ssion Jetting	Other		DI.V	<i>- </i>
Rotary (reverse) Boring	Water Use				//
Nomestic Industrial Stock Commercia	☐ Public Supp	ply 🔲 Other		100 75	i
☐ Irrigation ☐ Municipal	Cooling & a	air conditioning	Audit No. Z	142	Completed MM D
Water Supply ☐ Recharge well	Final Statús of Well Unfinished	Abandoned, (Other)			vered YYYY MM DD
	sufficient supply Dewatering	J	package deliver	wner's information ed? Yes No	0006114120
Well Contra	actor/Technician Information		Data Source	Ministry Use On Contracto	
Name of Well Contractor	line Co Lite	Ven Contractor's Licence INO.		1 1	119
Business Address (street name, number,		KAAZZA	Date Received	2 2006 MM QD. Date of Ir	spection YYYY MM DD
Name of Well Technician (last name, first	it name) W	Vell Technician's Licence No.	Remarks		ord Number
Signature of Jechnical Contractor	Da	ate Submitted YYYY MM DD	es Carrio	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
0506E (09/03)	Contractor's Copy M	Ministry's Copy Well Ov	/nèr's Copy ☐	Cette formul	le est disponible en français
	.,		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		

⊗ Or	ntario		Ministry of he Environme	Well Tag	A 04	3535	ber below)	Regulation 903	Well R 3 Ontario Water Reso	
Instructions	s for Comp	letin	g Form		H04	135	35	**************************************	page _	of
All SectionQuestionAll metric	ons must be ns regarding 'e measure n	com com	npleted in full pleting this ap	to avoid delays oplication can b ported to 1/10	in processin e directed to	g. Further i	nstructions and	lease retain for futur d explanations are ava ment Coordinator at Ministry Us	ailable on the back of 416-235-6203.	this form.
Well Owner	r's Informat	tion	and Locatio	n of Well Info	rmation	MUN	Co	ON	LOT	
	2ttan	N.		(leta		USS	ode		4 2	
RR#/Street Nu	imber/Name	Sen	wth B	each B	iva		eelu	MONAN	artment/Block/Tractet	
GPS Reading	NAD 8 3	792	ASAS	S69 Sol	ing (Init Make/M			differentiated Average erentiated, specify	aged
Log of Over General Colour				rials (see inst		1	0	1 December 1	Depth	Metres
General Colour	Most com	- C	Thaterial A	Other Ma	enais		Genera	I Description	From	1210
· Ž	6	~~~	21 1 5	rosta	^ e				13 10	2279
			13	rdsto	ne				295	34,44
· 		~		resto	ne				34,44	41.14
		_	Sic	ind stan	æ.				41,14	42,66
										
		-								
l line	Dia			·						
	Diameter letres Diame	eter	Inside	Cons	truction Reco	rd Depth	Metres	Pumping test method	t of Well Yield Draw Down Re	ecovery
From	To Centime		diam centimetres	Material	thickness centimetres	From	То	Bublump	Time Water Level Time min Metres min	Water Level Metres
0 40) 66 JS.6	2			Casing		1	Pump intake set at (metres)	Static 286	41,72
			XIS	teel Fibreglass	40	_		Pumping rate - 50 (litres/min)	1 5.72 1	39.29
	r Record			lastic Concrete Salvanized	.48	O_{i}	15.84	Duration of pumpinghrs +O min	2 8,26 2	37,35
Water found at Merce	Kind of Wat	ter	□s	iteel Fibreglass				Final water level end	3 10.17 3	3 3,35
Gas Other:	Salty	erals		Salvanized				of pumping metres Recommended pump	4 1226 4	38.56
414	Fleins Sulp			teel Fibreglass				type. Shallow Deep Recommended pump		2019
Gas Other:	Salty Mine	erals		Salvanized		,		depth		71.06
	Fresh Sulp	ohur erals	Outside	iteel Fibreglass	Screen			Recommended pump rate.	10 0 0 10 0 15 0 8 15	19.51
Other:After test of wel	Il vield water w	/as	I diam □	Plastic Concrete	Slot No.			If flowing give rate - (litres/min)	20 3 0, 53 20 25 33 , 16 25	3.90
Q que que	BOW PITTLE BOY			Salvanized				If pumping discontinued, give reason.	30 34 , 54 30	[j,53
Other speci				Open hole	asing or Scre	_{5,23}	1066		40 57 , 60 40 50 50	7,92
Chlorinated			<u> </u>		and the second second		4266		60 A1.72 60	5.48
Depth set at - M	etres Material a		aling Record e (bentonite slurry	Annula , neat cement slurry	vetc Volum	andonment Placed metres)		Location of well find the control of		ilding.
From 3	19 Nes	24	Cone-t	Sluin	1 - 6	27	Indicate north by	1	, 14	
Jam 0	be	to,	nites	sluin		781	0	32 South each Bh		۸۵
*								secr Dh	12 W	\(\frac{1}{9}\)
,								16	Z - <	<u> </u>
Cable Tool	□R	M otary (lethod of Con	struction Diamond		Digging	150	业 1.5	Km 22) 7
Rotary (conve	entional)	ir perc	ussion	☐ Jetting ☐ Driving		Other		\mathfrak{D}	60	0
	se) []b	oring	Water U							
Domestic Stock		idustria omme		☐ Public Supp ☐ Not used	ly	Other				, î
Irrigation	ШМ	lunicipa	Final Status		r conditioning		Audit No. Z	48636 Da	te Well Completed	0734
Water Supply Observation	=	_	ell insufficient supply	Unfinished Unfinished	Abando	ned, (Other)	Was the well ov package delivered	VIIGI 3 IIIOITIALIOIT	te Delivered	OB6
Test Hole	Aband	oned,	poor quality	Replacement				Ministry Us		
Name of Well C	ontractor		116.		ell Contractor's L	cence No.	Data Source			9
Business Addres	ss (street name,	namo	er, city etc.)	1 m 00	THY.	A 770	Date Received SEP 0	7 ^{YY} 2106 ^{MM} , DD Da	te of Inspection YYYY	MM DD
Name of Well Te				Var W	ell Tec <u>hnician'</u> s L	icence No.	Remarks	We	ell Record Number	
Signature of Tec	SOUL Y	tor	215	Dat	e Submitted	<i>8</i> 0 20				
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	Ministry of the Environment	Well Tr A 04;	3520 nber below)	Regulation 903 Ontar	Well Record			
Instructions for Completin	ng Form	H04	3520		page of			
 All Sections must be con Questions regarding com All metre measurement 	npleted in full to avoi pleting this applica is shall be reporte	oid delays in processin tion can be directed to	 g. Further instructions a 	Please retain for future refer and explanations are available of gement Coordinator at 416-23	on the back of this form			
 Please print clearly in blu Well Owner's Information 		Well Information	MUN	Ministry Use Only CON	LOT			
Uttant	2-(gr/e	787		2 4	4			
RR#/Street Number/Name GPS Reading NAD Zon 8 3 18	th Beac 3 4546481	LBIVA	City/Towin/Village Compared to the compared t	Differentiated	65 S/L/14 ed WAveraged			
Log of Overburden and Be General Colour Most common		(see instructions) Other Materials	Con		Depth Metres			
West commen	1 ~	arel	Gen	eral Description	From To			
Gren	1 limes	fore			13.10 36.57			
Cier	1 Sand	Store			36,57 53,53			
Hole Diameter Depth Metres Diameter	Inside	Construction Reco	rd Depth Metres	Test of We Pumping test method Draw	Down Recovery			
From To Centimetres	diam Mate		From To	Dime W	ater Level Time Water Level Metres min Metres			
0 53 5		Casing		Pump intake set (Static Level (378 2196			
		Fibreglass Concrete	0 15,84	Pumping rate 1	278 1 19.60			
Water Record Water found Kind of Water	S.CG Galvanize	Fibreglass	0 15,	Duration of pumping 2 1	3 6 2 17.18			
m Fresh Sulphur	Plastic] Concrete		Final water level end of pumping metres	438 3 5.08			
Other:	Galvanize	Fibreglass		Recommended pump 4	500 4 H,17			
m Fresh Sulphur Gas Salty Minerals Other:	Plastic Galvanize] Concrete		Recommended pump depth 5 metres	545 5 308			
m Fresh Sulphur		Screen		Recommended pump 10	736 10 ILIS			
Gas Salty Minerals Other:	diam =	Fibreglass Slot No.		(fitres/min) 15 (fitres/min) 1	353 15 10.96 7.40 20 10.89			
After test of well yield, water was	Galvanize			(litres/min) 25	57 30 10.87			
Gthd pepedia	\sim	No Casing or Scre		ued, give reason.	1.30 40 10.83 63 50 10.805			
Chlorinated Yes No	Open hol	e	15.23 53.33	60	96 60 10.79			
Plugging and Sea	aling Record e (bentonite slurry, neat or	ment slumy) etc Volume		Location of Well low show distances of well from road,	lot line, and building			
1523 BIS NEST	- Cenet	Slury .	metres) Indicate north	by arrow.				
1219 0 Best	mite SI	urry' -7	35 #135	a d. Rid	N N			
				1				
<i>i</i> .				6	> 17			
Cable Tool Rotary (a		Diamond	Digging	\$ 1.3 KM	() ()			
Rotary (conventional) Air perci		Jetting	Other		[6, <u>2</u>			
Stock Commer	Water Use Domestic							
☐ Irrigation ☐ Municipa	Final Status of Well Z 48631							
Observation well Abandoned, insufficient supply Dewatering package delivered? No Color No								
Well Cont	ractor/Technician I	144 11 6 4 4 4 1 1 1	cence No. Data Source	Ministry Use Only Contractor	4 4 2 -			
Name of Well Contractor A P C C DQ I Business Address (street name number	MNG CO	Veil Contractor's Li	7		1119			
Business Address (street name number	# WOND C	MY LOAD	ZO SEP	0 7 2006				
Name of Well Technician (last name, fi		Well Technician's	cence No. Remarks	Well Record	inumper			
Signature of Technician/Contractor	*	Descubmitted yyyy		0	oot diance this in f			
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Ontario Ministry the Envir		nber below)	Well Record Regulation 903 Ontario Water Resources Act
Instructions for Completing Form	H0439	522	page of
 For use in the Province of Ontai All Sections must be completed in 	rio only. This document is a permanent in full to avoid delays in processing. Fur this application can be directed to the V be reported to 1/10 th of a metre.	ther instructions and e	explanations are available on the back of this form.
Well Owner's Information and Lo	cation of Well Information MUN	CON	LOT
RR#/Street Number/Name GPS Reading NAD Zone East	th Vilace by String - Union	SOOO COMMINING PROPERTY MODE O	Site/Compartment/Block/Tract etc.
Log of Overburden and Bedrock		gewon	Differentiated, specify
General Colour Most common material	Other Materials	General [Description Depth Metres From To
Sond			0 5.18
Sordy	Hay, Sand, gra	»vel	5,18 69
Limels	toner '		10,7 / 24,9
			· .
Hole Diameter	Construction Record		Test of Well Yield
Depth Metres Diameter Inside	Wall De	pth Metres	Pumping test method
From To Centimetres diam centimetr	Material thickness centimetres From	om To	Sub Pump Time Water Level Time Water Level min Metres min Metres
0 04,1115.51	Casing		Pump interce see at Static 197 485 (metres) 485
	Steel Fibreglass		Pumping rates (1736 1 356 (litres/min)
water Record 10,	Plastic Concrete 48	16.00	Duration of pumping 2 4.50 2 3.51
Water found Kind of Water	Steel Fibreglass		Final water leverend 3 456 3 3 46
Gas Suity Minerals Other:	Plastic Concrete Galvanized	I L	of pumping metres Recommended pump 4 4 5 4 3 45
23 16 Helist Farhur	Steel Fibreglass		type. Shallow Deep
Gas Salty Minerals Other:	Plastic Concrete Galvanized		depth.)
m Fresh Sulphur	Screen		Recommended pump 10 4, 70 10 3 30 rate. ((litres/min) 15 1 72 15 3 34
Gas Salty Minerals Outside diam	Steel Fibreglass Slot No.		If flowing give rate - 20 4, 74 20 3 39
After test of well yield, water was	Galvanized		(litres/min) 25 4 75 25 3 3 7 15 pumping discontin- 30 4 7 30 30
Other, specify (ESED	No Casing or Screen		ded, give reason.
Chlorinated Yes No	Spen hole 5.3	39 24.99	50 4.85 50 60 4.85 60
Plugging and Sealing Re			Location of Well
Depth set at - Metres From Te Material and type (bentoni	ite slurry, neat cement slurry) etc. Volume Place (cubic metre:	3)	show distances of well from road, lot line, and build a lirow.
15. 1 6 Meate	te Slury .85	<u>\$</u> So	outh Beach
			1150 \$69.40 SOUTH VILLAGE DAVE
		- News or 1	150 Court
Cable Tool Rotary (air)	of Construction Diamond Diggin	9	V DE SULACE
Rotary (conventional) Rotary (reverse) Boring	☐ Jetting ☐ Other ☐ Driving —————		190' TAVE
W	ater Use		EAVE
☐ Stock ☐ Commercial ☐ Irrigation ☐ Municipal	☐ Public Supply ☐ Other ☐ Not used ☐ Cooling & air conditioning	Audit No.	18610 Date Well Completed
Final S Water Supply Recharge well	Status of Well Unfinished Abandoned, (C		<u> </u>
Observation well Test Hole Abandoned, insufficier Abandoned, poor qual	nt supply Dewatering	Other) Was the well own package delivered?	
	Technician Information Well Contractor's Licence	No. Data Source	Ministry Use Only Contractor 1 1 1 9
Business Address (street name, number, city et	c) (1)	Date Received	
Name of Well Technician (last name, first name	SHON TWO DING	LO SEP U	7'2006 DD Date of Inspection YYYY MM DD Well Record Number
Signature of Technician/Contractor	Data Submitted yyyy	T. G. Har Ro	101053/6 (14)
xxory	0006 06		
0506E (09/03)	Contractor's Copy T Ministry's Copy T We	ell Owner's Copy 🔲	Cette formule est disponible en français

	nistry of Environment	Well Ta	. 043	163	nber below)	Regulation 9	Well Record 03 Ontario Water Resources Act
Instructions for Completing	Form	Ho	43	46	3	t _e	page of
 For use in the Province of All Sections must be comple Questions regarding comple All metre measurements s Please print clearly in blue of 	Ontario only. Thi eted in full to avo eting this applicat shall be reported or black ink only.	id delays in pr ion can be dir I to 1/10 th of a	rocessing. ected to the metre.	l Further ir	nstructions and	explanations are a nent Coordinator a Ministry U	vailable on the back of this form. It 416-235-6203.
Well Owner's Information an	nd Location of V	Vell Informa	tion	VIOIV			
RR#/Street-Number/Name GPS Reading NAD Zone 8 13	as leto the Bea	al B(UDC	y/Town/Vil	odel A Mode	bf Operation: U	partment/Block/Tract eta HM - 005 Indifferentiated Averaged ifferentiated, specify
Log of Overburden and Bedi	rock Materials (see instruct	ions))		
General Colour Most common ma	y clay y clay store	Other Materials	S		General	Description	Depth Metres From To 2,74 2,74 13.11 13.11 46.02 46.02 56.69
Hole Diameter Depth Metres Diameter			tion Record		Madua	Pumping test metho	est of Well Yield
From To Centimetres 0 5669 1593	Inside diam entimetres Mate	erial thic	Wall ckness timetres	Depth'	Metres To	Pump intake set at (metres) Pumping rate	Time Water Level min Metres min Metres Static Level 0 3 1 1 1 0 1
Water Record Water found at Metras Kind of Water at Metras Free Rulphur	58 Plastic Galvaniz		48	0	15.54	(litres/min) (Duration of pumping	2 13,40 2 10,70
Gas Salt Minerals Other: m Hesh Sulphur Gas Salty Minerals	Galvaniz	Fibreglass Concrete				Recommended purr type. Shallow Recommended purr depth. metr	pp 5 4 7 5 6 5 6 5 8
Other: m Fresh Sulphur Gas Salty Minerals Other:	Outside diam	So Fibreglass S	creen slot No.			Recompended purrate. (litres/min) If flowing give rate -	10 A,5 10 10,46 15 14,67 15 (0,42)
After test of well yield, water was	Galvaníz	No Casin	g or Scree		/9	(litres/min) If pumping discontinued, give reason.	25 4.73 25 30 4.75 30 40 4.77 40 50 4.78 50
Chlorinated Yes No	pen ho	le-		473	56.69		60 4, 80 60
From 3	ing Record (bentonite slurry, neat of the Stume of Stume	ement slurry) etc.	Volume (cubic n		Indicate north by	v show distances of we arrow.	n of Well Il from road, lot line, and building
Me	thod of Construc	tion			# 12	362 South	South Village Drive
Cable Tool Rotary (air Rotary (conventional) Rotary (reverse) Boring	r) 🔲	Diamond Jetting Driving		ligging Other	155		1km Drive
Domestic Industrial Stock Commerci Irrigation Municipal	ial 🗍	Public Supply Not used Cooling & air con	ditioning	ther	Audit No. Z	8 48653	Date Well Completed
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Well Record
Regulation 903 Ontario Water Resources Act

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Instructions for Completing Form	400
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0506E (08/2006)

Ministry of the Environment

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Well Record
Regulation 903 Ontario Water Resources Act

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 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 Help Desk (Toll Free) at 1-888-396-9355. All metre measurements shall be reported to 1/10th of a metre. **Ministry Use Only** Please print clearly in blue or black ink only. er/Name compartment/Block/Tract etc **GPS Reading** 8 3 206 Differentiated, specify Log of Overburden and Bedrock Materials (see instructions) Other Materials General Description **Hole Diameter Construction Record Test of Well Yield** Depth Metres Diameter Draw Down Recovery Pumping test method Metres Material From Time Water Level Time Water Leve diam thickness 91 From min entimetr centimetres 61 (metres) 10 Casing Steel Fibreglass Pumping rate (litres/min) 1 Plastic Concrete Duration of pumping Water Record Galvanized _hrs +_O__ mir found Metres Kind of Water Steel Fibreglass 36 Final water level end of pumping __metre Sulphur Plastic Concrete Fresh Minerals _metre: Gas Galvanized Steel Fibreglass type.
Shallow Dee Recommended pump depth 3, metres Plastic Concrete Gas Other Galvanized 107 Reco mmended pump (litres/min) Screen l m Fresh Sulphur 10 10 rate. Minerals Gas Salty Outside 15 15 1061 Steel Fibreglass Slot No. Other: If flowing give rate 20 20 Plastic Concrete After test of well yield, water was (litres/min) 16 Clearand sedirfier in the Galvanized If pumping discontinued, give reason. 30 30 9.92 20.75 No Casing or Screen 40 40 50 50 86 Chlorinated ... **Z**Yes ☐ No 60 31.37 60 Plugging and Sealing Record Annular space Abandonment Location of Well In diagram below show distances of well from road, lot line, and building Depth set a - Metres Material and type (bentonite slurry, neat cement slurry) etc. Volume Placed Indicate north by arrow. 22 **Method of Construction** Diamond Cable Tool Rotary (air)] Digging Air percussion Rotary (conventional) Jettina Other Rotary (reverse) Boring Driving Water Use Domestic Industrial ☐ Public Supply ☐ Not used Other Stock Commercial Irrigation Municipal Cooling & air conditioning Audit No. 5 Final Status of Well Water Supply Recharge well Was the well owner's information package delivered? Unfinished Abandoned, (Other) Observation well Abandoned, insufficient supply package delivered? Dewatering Abandoned, poor quality Replacement we Well Contractor/Technician Information Ministry Use Only Data Source Date Received 1 2 2007 Date of Inspection ММ DD Remarks Well Record Number

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Plass Concrete Galvanized Recommended gump 10 7,7 10 0,8	1. 7.1. [2	Steel Fibr	eglass			type		
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Galvanized Gal		Outside Steel Steel				rate.	10 10	1 (5)
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Cotten See		Galvanized				If pumping discontin-	1	
Chlorinated Ches No Plugging and Sealing Record Channular space Abandonment	Other specification		No Casing or Sci	een		ued, give reason.		
Plugging and Sealing Record	Chlorinated Yes No	Dopen hole		1163	1277	AL STATE OF THE PARTY OF THE PA		
Depit set at: Metres Material and type (bentonite slurry, neat cement slurry) etc. (Journe Placed (Joubic metres) and the proof of the			A 1	<u> </u>				10,08
To To Cubic metres Indicate north by arrow. Indicate north by aro	Davids and at Mature 1		t sturny) etc Volum	ne Placed	In diagram below			ouildir (1/1)
Method of Construction	From 10	1-00 and -01	(cub	c metres)	Indicate north by	arrow.	. ^	
Method of Construction		30000	M 1 7 0 C				LD X	500
Method of Construction		and June	1 Yu S		一本 (3) (4 Sou	The last	0 0
Method of Construction				<u> </u>	Page 6	de RIVE		
Cable Tool		······································						
Rotary (conventional) Air percussion Jetting Other Rotary (reverse) Boring Driving	N	lethod of Construction				1		
Rotary (reverse)		, h ar		_ ` I		1 /		
Water Use Domestic				_ Other 			HO	
Stock Commercial Not used Municipal Cooling & air conditioning Final Status of Well Water Supply Recharge well Unfinished Abandoned, (Other) Abandoned, insufficient supply Replacement well Test Hole Abandoned, poor quality Replacement well Well Contractor/Technician Information Name of Well/Contractor Well Contractor/Technician Information Well Contractor/Technician Information Well Contractor/Technician Information Well Contractor/Technician Information Date Olivered YYYY MM DD Was the well owner's information package delivered? Date Olivered YYYY MM DD Date Of Inspection YYYY MM DD Date of Inspection YYYY MM DD Date of Inspection YYYY MM DD								
Irrigation	F1 78% P2] Other				
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		Lactor/ recimician infor		Licence No.	Data Source		······································	
	HIR KOCK DR	ar city etc.)	UTD L	17	Dato Docoberd		te of Incocation	B 27 -
	Subject Street fame, numb		SWT KN	4220	Date neceived	GYNY DD Da	το οι πισμουποιπ Αλλλ	MM DD
VULCEIL SHAWNON TAISA!	Name of Well Technician (last name of	rstmame)	······································		Remarks	We	ell Record Number	<u> </u>

Date Submitted

re of Technician/Sontractor

(Ontario	Ministry of the Environment	Well Tag No.	. (Place Sticker and	d/or Print Below)		We	ell Record	
V Ornano		[N	A	Regulation 903 Ontario Water Resources Act Page of				
Well Owner's Information	1							
Filst Name Mailing Address (Street Number	Last Name	Municipality	E-mail Addres	Province	Rostal Code		Well Constructed by Well Owner lo. (inc. area code)	
Part A Construction and/o			o li CT		Then			
Address of Well Location (Oreel County/District/Municipality	Number/Name, RR)	City/1	OSG X	1		Concession Province	Postal Code	
	5534150ll	The second of th	nit Make Model	Mode of O		Ontario Indifferentiated	Averaged	
General Colour Most Communication	mon Material	Other Materials	n) /	General De	scription	1	Depth (Metres) From To_	
6"	Drille	I we	'll Ab	ondon	men	d (0 (8,90	
Annular	Space/Abandonment Sea	aling Record			Results of Well	l Yield Testing		
Depth Set at (Metres) From To	Type of Sealant Used (Material and Type)		Volume Placed (Cubic Metres)	Check box if after test water was:		Draw Down Time Water Level	Recovery Time Water Level	
3700.15 H	ole Plug			Clear and sand f	to sand-free	(Min) (Metres) Static	(Min) (Metres) Static	
0.150 D	·C+ '			If pumping decontinue	ed, give reason:	Level 1	Level 1	
				Pumping test method		2	12	
Method of Construction	20	Water Use		Pump intake set at (I	Melkes)	3	3	
Cable Tool Diar	mond Public	Commercial Municipal	Not used Dewatering	Pumping rate (Litres/	min)	4	4	
Rotary (Conventional) Jett Rotary (Reverse) Driv Rotary (Air) Digs	ving Livestock	Test Hole Cooling & Air	■ Monitoring			5	5	
Air percussion Bori	0 0		Conditioning		nin	10	10	
	Status of Well			Final water level end of (Metres)	of pumping	20	20	
Replacement Well Aba	watering Well andoned, Insufficient Supply	Alteration (Co	,	Recommended pump		25	25	
	andoned, Poor Water Quality andoned, other, specify	Other, specif	ABLE	Recommended pum	depth	30	30	
Please provide a map below show				Recommended pum (Litres/min)	p rate	40	NO.	
 all property boundaries, and mea an arrow indicating the North dire 	ection		1.44	If flowing give ate		50	50	
 detailed drawings can be provide vidigital pictures of inside of well of 		an legal size (8.5° l	by 14 N	(Litres/min)		60	60	
<u></u>	15/20			Water found at Dep	Water Kind of			
	3/2	19		Water found at Dep	1003	h Salty S	ulphur Minerals	
	#6	Know	٨	Metres	Gas Fres	h Salty Si	Minerals	
	Val far	Kna	\	Water found at Dep			ulphur	
	£ ,	Koon	-	Casing Used	Screen Used		nd Well Details Hole (Centimetres)	
	£			Galvanized	Galvanized Steel	Depth of the Hol		
Date Well Completed Was the	well owner's vicemation	Date the Well Reco		Fibreglass Plastic	Plastic Plastic		/	
2008-03-Backage	S XNo)	wner (yyyy/mm/dd)	No Casing and	Concrete Screen Used	Wall Thickness	(Metres)	
Well Contract Business Name of Well Contract	ractor and Well Technic or		ntractor's Licence No.	Open Hole	Corcon Cour	Inside Diameter	of the Casing (Metres)	
Byginess Address (Street No./Na	KILLING"	Municipality	1(19	Disinfected? Ves No		Depth of the Cas	sing (Metres)	
RAH 1	Q.	Com	DWD			Use Only		
Province Postal Cod	H22-0			Audit No. z 781	14	Well Contractor No.		
Bus. Telephone No. (inc. area code)	Name of Well Technician (I	ast Name, First I	Name)	Date Received (yyyar)	R 2 8 2008	Date of Inspection (y	yyy/mm/dd)	
Well Technician's Licence No. Sign	nature of Technician	Date Su	abmitted (yyyy/mm/dd)	Remarks				
c (11/2006)	my	00	Ministry's Copy			© Queen's	Printer for Ontario, 2006	

♥ Ont	Ministry of the Environm	Well Tag No. 70	86	or Print Below)	_	Well Record		
1#		A05	768	6		Page		of
Well Owner's In	nformation					3 - 3 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 -		
First Name	Last Nam	med Inc.	ail Address	gerogens.	con		by Well	Owner
Mailing Address (SI	reet Number/Name_RR)	b Dr. Greeky	0	Province	Postal Code	Telephon	e No. (inc. 2 214)	area code)
	ction and/or Major Altera	ation of a Well				71610110		
Address of Well Loc	South Street Number/Name	ear K Bhil	077	eva	110	Concess		
County/District/Mur	nicipality	City/Town/Villa	ge /	11.0.1		Province Ontario	Postal	Code PIIM6
UTM Coordinates	Zone Easting No	orthing GPS Unit Make	Model	Mode	Operation:	Undifferentiated	Ave	
NAD 8 3	11845145525		Mas	gellan Differe	ntiated, specify_			
Overburden and Bedrock Materials (see instructions on the back of this form) General Colour Most Common Material Other Materials				General D	escription		Depth	(Metres)
Brown	Sand			loose			0	5
Green	Sand.			looge			5	8
Gues	Gravel	Boulder		packed			8	13
Green	limostone			layere			13	48.7
						William Commencer		
Marie Commence of					- " "			
Depth Set at (Metre		palant Used Volume	Placed	Check box if after tes	Results of We st of well yield,	Draw Dow		Recovery
From To	(Material a		Metres)	water was: Clear and sand	I free	Time Water L (Min) (Metro		Water Level (Metres)
0 14.6	3 Cimen	grow 13	Dig	Cannot develop state	to sand-free	Static Level 3	Static	23,54
				If pumping discontin	ued, give reason:	16	1	
				Pumping test method	od ,	2 7.0	1 2	2n.90
				1/20h -	Sab		1 3	19 70
Method of	Construction Diamond	Water Use	Not used	Pump in ake set at	(Metres)	4 9, 20	2 4	15.51
Rotary (Convention	ional) Jetting	omestic Municipal [Dewatering	And the second s	Pumping rate (Litros/min) 5 (0.30			
Rotary (Reverse) Rotary (Air)		ivestock Test Hole I ! rigation Cooling & Air Condition	Monitoring ning	53				13.11
Air percussion Other, specify		ndustrial Other, specify		Duration of pumping 10 /4/ 50 10 9.0 Final water level end of pumping 10 /4/ 50 10 9.0 15 17.25 15 5.3				
		of Well			5 of pumping	00	20	3 00
Water Supply Replacement We	☐ Dewatering Well ☐ Abandoned, Insuffici	Observation and/or Morient Supply Alteration (Construction		Recommended pur		25 30	1/ 25	2010
Test Hole Recharge Well	☐ Abandoned, Poor Wi ☐ Abandoned, other, s			Recommended pur		30 01	30	
		n of Well		Metre		40 7 7	- / 40	
Please provide a ma - all property bounda	ap below showing: aries, and measurements suffici	ent to locate the well in relation to fixed p	oints,	(Litres/min)	mp rate	50 02	7/ 1/ 50	
 an arrow indicating detailed drawings 	can be provided as attachments	s no larger than legal size (8.5" by 14")		If flowing give rate (Litres/min)		60 23	201	
 vidigital pictures of 	inside of well can also be provi	ded			Meta	r Detáils	2/100	
	7			Water found at D	epth Kind	of Water		
		0		Water found at D		of Water	Sulphur	Minerals
	South	Beach			The state of the s	esh Salty	Sulphur	Minerals
				Water found at D		of Water esh Salty	Sulphur	Minerals
	11			Casing Used	Gas Gas Screen Used		g and We	
	Eform (Galvanized	Galvanized	Diameter of		Centimetres)
	Sm			Steel Fibreglass	Steel Fibreglass	Depth of th	Hole (Met	es)
Date Well Comple	eted Was the well owner's info package delivered?	Date the Well Record and Pa Delivered to Well Owner (yyy		Plastic	Plastic	4	So 7 ess (Metres	
2008/05/30	- 1	No Bentered to Well Owner (yyy	ymmooy	Concrete No Casing at	Concrete	0.9	18	
Business Name of		ell Technician Information Well Contractor's L	icence No.	Open Hole	The state of the s	Inside Dian	eter of the 0	Casing (Metres)
Dogra	eois well	1 1/2		Disinfected?		Depth of th		letres)
Business Address (Street No./Name, number, RR) Municipality To Too				Yes No	Ministr	y Use Only	2	
Province	Postal Code Busine	ess E-mail Address)	Audit No. Z 79	829	Well Contracto	r No.	
On Torio	(inc. area code) Name of Well	Technician (Last Name, First Name)		Date Received (yyy		Date of Inspect	on (vvvv/m	n/dd)
6 113 980	19291/ Mich	hael Genier		JUN	2 5 2008	- Suppose	0777	
Well Technician's Lic	cence No. Signature of Techni		yyyy/mm/dd)	Remarks			7	
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Ministry of	
he Environment	

Well Tag No. (Place Sticker and/or Print Below)

A 057689

	1	Wel	ļ	Record
Regulation 903	Ontario	Water	R	esources Act

~ #±	A0576	87		Page)†
Well Owner's Information						
First Name Last Name	E-m	nil Addrace			Well Con by Well	
Mailing Address (Street Number/Name, RR)	Municipality		Province Postal Code	Telephone	No. (inc. 8	area code)
6826 Lakes Park Dr.	Occely		Oct. KAPILL	M661181	12140	1990
Part A Construction and/or Major Alteration of						
Address of Well Location (Street Number/Name, RR)	Township	77	Lot 109	Concession	on	
County/District/Municipality	City/Town/Villag	//awo	1/07	Province	Postal	Code
OTTana Carleton	077	2107	Greely	Ontario	111	111
UTM Coordinates Zone Easting Northing	GPS Unit Make	Model	Mode of Operation:	Undifferentiated	Ave	raged
NAD 8 3 1 8 45 4522501 6	11119 UTM	Mas	llan Differentiated, specify_			
Overburden and Bedrock Materials (see instructions of	Other Materials	0	General Description		Depth	(Metres)
General Colour Most Common Material	Other Materials		General Description		From	To
Brown Sand			ploose		0	4
Grey Sand			phoose		4	8
Gey ground 1	soulder		Packed		8	11
Creex limestone			layered		1(418.7
		Table 1				
The same of the sa						The state of
		-				-
			Decule of M.	-II Viald Tackin		
Annular Space/Abandonment Depth Set at (Metres) Type of Sealant Us	AND REAL PROPERTY AND REAL PRO	Placed	Check box if after test of well yield,	Draw Down		ecovery
From To (Material and Type,		Metres)	water was:	Time Water Le (Min) (Metres		Water Level (Metres)
0 13.4 Ciment are	nit 10	Bag	☐ Cannot develop to sand-free	Static 2 C	(Min) Static	4
J			state If pumping discontinued, give reason:	Level De 7	Level	23.89
				1 5.90	1	
			Pumping test method	2 6.99	2	20.14
			Pump htake set at (Metres)	3 7 60	3	9.00
Method of Construction Cable Tool Diamond Public	Water Use ☐ Commercial ☐ N	lot used	98.7	4 6	4	IE DO
Rotary (Conventional) Jetting Comestic		ewatering	Pumping rate (Litres/min)	5 m 2	Q 5	9 111
☐ Rotary (Reverse) ☐ Driving ☐ Livestock	☐ Test Hole ☐ M ☐ Cooling & Air Condition	Monitoring /	53	10.2	0	1.14
□ Rotary (Air) □ Digging □ Irrigation □ Air percussion □ Boring □ Industrial	Cooling & Air Condition	ing	Duration of pumping hrs + min	10 14.1	7 10	8.50
Other, specify Other, spe			Final water level end of pumping	15 17.3	5 15	4.75
Status of Well Water Supply Dewatering Well	Observation and/or Moni	torina Hole	(Metres)	20 14.5	2 20	4.40
Replacement Well Abandoned, Insufficient Supp	y Alteration (Construction	- 1	Recommended pump type Shallow Deep	25 10 01	25	Service Annual Control
☐ Test Hole ☐ Abandoned, Poor Water Qual ☐ Recharge Well ☐ Abandoned, other, specify	ity Other, specify		Recommended pump depth	30 20 6	30	
Location of We	11		38.7 Metres	KUOD	d	
Please provide a map below showing:			Recommended pump rate (Litres/min)	40 22.	13 40	
 all property boundaries, and measurements sufficient to loc an arrow indicating the North direction 	·	ents,	If flowing give rate	50 23.1	9 50	
 detailed drawings can be provided as attachments no large vidigital pictures of inside of well can also be provided 	r than legal size (8.5" by 14")	.	(Litres/min)	60 72.0	9 60	
	Λ2 P	٠	Wate	r Details		
	/ 0 1	- 1	. 6	of Water		
]	Metres Gas Ser		Sulphur	Mineral
e the R.	L			of Water esh Salty	Sulphur	Mineral
South Bear	1	1	545	of Water		3 f
40m Hause			Metres Gas Fro	esh Salty	Sulphur	Mineral
1 17			Casing Used Screen Use		and Wel	
e dom			Galvanized Galvanized	Diameter of the	55 me Hole (C	unumetres)
			Fibreglass Fibreglass	Depth of the		es)
Date Well Completed Was the well owner's information (xyyy/mm/gld) package delivered?	Date the Well Record and Pac Delivered to Well Owner (yyy)		Plastic	2/8	- 7	
2008/05/30 package delivered Tyes UNo		ruo)	Concrete Concrete	Wall Thickne	18 (Metres)	
Well Contractor and Well Tech	AND DESCRIPTION OF THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.		No Casing and Screen Used	Inside Diame		asing (Metre
Business Name of Well Contractor	Well Contractor's Li	cence No.	Disinfected?		SS Cosing (Mr	ofrae i
Business Address Street No Name, number, RR)	Municipality	7	Tes No	Depth of the	4/1	w co)
1182 900 East	Natio	n	Ministr	y Use Only		
Province Postal Code Business E-mai			Audit No. z 79830	Well Contractor	No.	
Bus. Telephone No. (inc. area code) Name of Well Teghnicia	in () ast Name First Name)		Date Received (yyyy/mm/dd)	Date of Inspection	n /www.ena	Vdd)
611 R1918125R1911 Michael	Lenier (JUN 2 5 2008	Source of mapeutor	Cyyyymin	
Well Technician's Licence No. Signature of Technician	Date Submitted (y	yyy/mm/dd)	Remarks			
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Ontario Ministry of the Environment Measurements recorded in: Metric Imperial	Well Tag No. 4 066	Well Record
Well Owner's Information	MHISHIDADHUMIN SHIMM	
County/District/Municipality O Howard Carl ton UTM Coordinates Zone Easting Northing NAD 8 3 184545925013 Overburden and Bedrock Materials/Abandonment S General Colour Most Common Material Sand & C	City/Town/Village City/Town/Village Peel Municipal Plan and Suble	Province Postal Code Ontario Other 2 6 5 S L # 80
Method of Construction	Slurry , 1816 lurry , 490 Well Use	Results of Well Yield Testing After test of well yield, water was: Static Country (min) (m/tt) Pump intake set at (m/tt) Pumping rate (l/min / GPM) 3 10, 68 3 10, 15
Cable Tool Diamond Devolic Domestic Domestic Domestic Domestic Domestic Domestic Diagring Livestock Diagring Diagring Diagring Industrial Other, specify Construction Record - Casing Inside Diameter (cm/in) Concrete, Plastic, Steel) Wall Deption D	Commercial Not used Municipal Dewatering Test Hole Monitoring Cooling & Air Conditioning Status of Well Water Supply Replacement Well Test Hole Recharge Well Dewatering Well Dewatering Well Observation and/or Monitoring Hole Alteration (Construction) Abandoned, Insufficient Supply Abandoned, Poor	Duration of pumping 5 11.79 5 9.13 Final water level end of pumping (m/tt) 10 //.95 10 8.74 Inflowing give rate (Vmin/CPM) 15 12.08 15 Recommended pump depth (m/tt) 20 /2.31 20 Recommended pump rate (Vmin/GPM) 25 /2.32 25 Recommended pump rate (Vmin/GPM) 30 /2.33 30 Well production (Vmin/GPM) 40 /2.33 40 Disinfected? 20 /2.38 60 Map of Well Location Map of Well Location Map of Well Location
Water Details Water found at Depth Kind of Water. Fresh Unteste	water Quality Abandoned, other, specify Other, specify	Please provide a map below following instructions on the back. F1363 Sonth Beach Bird Sonth Beach Bird Comments: Well owner's information package delivered alivered by Yes No No Date Package Delivered Audit No. Z 80748 AUG 14 2008 Received Queen's Printer for Ontarlo, 2007



Well Tan No. for Master Well (Place Sticker and/or Print Below)

Master Well Record for **Cluster Well Construction**

Regulation 903 Ontario Water Resources Act
Page _____ of _____

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こてイメート	. :			County County	Assault 1		2007

Address of Well Location (Street Number/Name, RR)				Townst	nip		, , , , , , , , , , , , , , , , , , ,		Lot	Concessi	on
	trict/Municipality	//			wn/Villag				3	Province	Postal Code
UTM Coord	inates Zone , Eastir	ng Northing	1	ら GPS Unit	Make	Model		Mode of O	peration:	Ontario Undifferentiated	↓ Averaged
NAD	8 3 1 8 4 5	5060501				Etre	x	•	tiated, specify		[] 7 7 7 7 5 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5
No. of the recognition of the	Caralle and a strategic and a strategic descriptions.	(Materials (see inst	1 2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	district on a section of the			Doots	(Metres)	Hole	Details	
General Colour	Most Common Material	Other Materials	Genera Descript		From	(Metres) To	From	(<i>Metres)</i>		Diame (<i>Centime</i>	
6-4	Gravel	Sand	soff d	8" LJ	0	. 61	0	4. 98	10,92		ATT TO THE TOTAL PROPERTY OF THE TOTAL PROPE
Brn	Sand		1	100	.61	1.5					WALES WILLIAM AND A SAME AND A SA
6-	clay			sist	1.5	274	基础		i i i i i i i i i i i i i i i i i i i	**************************************	POTPOTION A REAL MANAGEMENT AND A REAL PROPERTY OF THE PROPERT
6	5,17	A	Wet	* * * * * * * * * * * * * * * * * * * *	1	4,88				W. C.	······································
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101703341000000001110000101111000004	* . * . * . *		**************************************		·		☐ Domes ☐ Livesto			Dewatering Monitoring	
NACCONIMISSA AND MINISTER AND ADDRESS AND	······	n hi chi da da da da da Al Al Alamanda da ha da			, .		Imigatio		st Hole 🔲	Cooling & Air Cor	ditioning
							☐ Cable	Tool	Method of	Construction	
	***************************************						Rotary	(Convention	al) 🗌 Diamo	nd Dat	ning
	**************************************	s s s s s s s s s s s s s s s s s s s			*******************	V. V	☐ Rotary	(Reverse) (Air)	☐ Jetting ☐ Driving		her, specify Push
		· · · · · · · · · · · · · · · · · · ·			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			Statu	s of Well	A CONTRACTOR OF THE CONTRACTOR
							Prest H		, noncine	oned, Insufficient :	, - "
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Cluster Well Information for Cluster Well Construction

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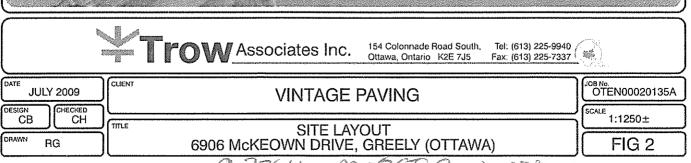
669 Page <u>a</u> of <u>3</u>

Addre	ess of Well Location (Street Number/Name, RR 5906 McKeown R)	Lot		Concession	Township			Coun	ty/District/Muni	icipality	upon request	
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Well # on Sketch	UTM Coordinates Zone Easting Northing	Full Depth of Hole (metres)	Hole Diameter (cm)	Method of Constructio	n	Casing Length (metres)	Screen In From	terval (metres	Sealant Used	Level (metres)	Abandonment Sealant Used	Comments	Date of Completion (yyyy/mm/dd)
2	11845504250111837	4.88	10.92	Direct Push	Puc	1.83	1.83	4.88	Benseal				2009/08/31
_3	1845505159118143	4.88	10.92	Direct Push	PUL	1.83	1.83	4.88	Benseul				2001/08/
4	118145151015125011118137	4.88	10.92	Direct	PUL	1.83	1.83	4.88	Benseal				2009/08/

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pg 3 of 3





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Well Tan No. for Master Well (Place Sticker and/or Print Below)

Master Well Record for **Cluster Well Construction**

Regulation 903 Ontario Water Resources Act
Page _____ of _____

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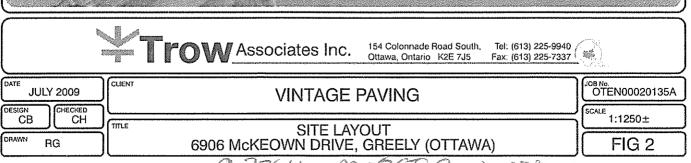
669 Page <u>a</u> of <u>3</u>

Addre	ess of Well Location (Street Number/Name, RR 5906 McKeown R)	Lot		Concession	Township			Coun	ty/District/Muni	icipality	upon request	
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Well # on Sketch	UTM Coordinates Zone Easting Northing	Full Depth of Hole (metres)	Hole Diameter (cm)	Method of Constructio	n	Casing Length (metres)	Screen In From	terval (metres	Sealant Used	Level (metres)	Abandonment Sealant Used	Comments	Date of Completion (yyyy/mm/dd)
2	11845504250111837	4.88	10.92	Direct Push	Puc	1.83	1.83	4.88	Benseal				2009/08/31
_3	1845505159118143	4.88	10.92	Direct Push	PUL	1.83	1.83	4.88	Benseul				2001/08/
4	118145151015125011118137	4.88	10.92	Direct	PUL	1.83	1.83	4.88	Benseal				2009/08/

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pg 3 of 3





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Well Tan No. for Master Well (Place Sticker and/or Print Below)

Master Well Record for **Cluster Well Construction**

Regulation 903 Ontario Water Resources Act
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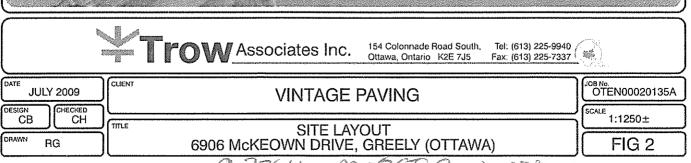
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Postal	strata Sal Sam Oline	1	村。	1-147	(Street Number/Nation's Licence No. But	seaul	/ Cû	eh	"KIChm	rond I hil	ION	Ministry Use Only	
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Well Tan No. for Master Well (Place Sticker and/or Print Below)

Master Well Record for **Cluster Well Construction**

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	**************************************	s s s s s s s s s s s s s s s s s s s			*******************	V. V	☐ Rotary	(Reverse) (Air)	☐ Jetting ☐ Driving		her, specify Push
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		Construction De	tails				The second second	Yes N			etres
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			·///				Water fou	ınd at Deptl		f Water	######################################
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31	į.	13eal					Civerant				onal Cluster Well
1, 5	4.88 Sa	no	**************************************				Informat	ion for Wel	l Construction	for each parcel	of land and cluster.)
		**************************************	A				Total Wei	lls in Cluster L	•		Number of Cluster Well Sheets Submitted
			· · · · · · · · · · · · · · · · · · ·				Total Wel	lls on this Pr Lí	roperty	1	
			***************************************			······································			Location o	Well Cluster	
					The Control of the Control of the Control				e provided as a are not allowe		larger than legal size
		···			***************************************		L Check	box to conf	irm detailed m	ap is provided as	per Section 11.1 (3)
					***************************************		Concept of	to rolongo o	ddillianat info	***************************************	
							S				
Business Na	Well Contr ame of Well Contracto	actor and Well Tecl			actor's Lice	nce No.	M				
Sha	ta Sal	Samplin	les 1	1	24		S				
(1)	Idress (Street No Na	me-number, RR) Bea(HV (DO Munici		MON	dit	4		1 1 2 1 2 X	Use Only	
Province	Postal Code	Business E-ma	ail Address	<u>viczi</u>	17 [0]	VI II	Audit No.	· nc		Well Contractor N	O,
Sus Telepho	ne No. (inc. exed code)	Ub Name of Wells Technic	an (Last Name	First Ma	me)			######################################	2599	Date of Inspection	Anny provided
aikY	764-120	1 Refere	S4 -1		رفی		ľ ŠĽ	red (yyy)/m P 222	2009	vaicus histolicus	TANAMISINGS)
Well Technici	an's Licence No. Signa	ture of Technician) D	Date Subn	nitted (yyş	y/mm/dd)	Remarks			**************************************	
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Well A 085398

Cluster Well Information for Cluster Well Construction

Regulation 903 Ontario Water Resources Act

A085398

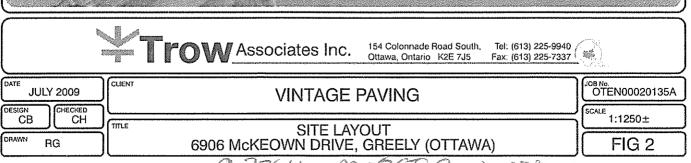
669 Page <u>a</u> of <u>3</u>

Addre	ess of Well Location (Street Number/Name, RR 5906 McKeown R)	Lot		Concession	Township			Coun	ty/District/Muni	icipality	upon request	
City/I	5906 /9cKeown R		stal Code		GPS Unit Make I	Madal	I timis san	ala =4 O===		197		Signature of Technician/Contractor	Date (yyyy/mm/dd)
	9 reely Onta				6armin	Model Etrex	1	de of Oper rentiated, s	_	ndifferentiated	// Averaged		
Well # on Sketch	UTM Coordinates Zone Easting Northing	Full Depth of Hole (metres)	Hole Diameter (cm)	Method of Constructio	n	Casing Length (metres)	Screen In From	terval (metres	Sealant Used	Level (metres)	Abandonment Sealant Used	Comments	Date of Completion (yyyy/mm/dd)
2	11845504250111837	4.88	10.92	Direct Push	Puc	1.83	1.83	4.88	Benseal				2009/08/31
_3	1845505159118143	4.88	10.92	Direct Push	PUL	1.83	1.83	4.88	Benseal				2001/08/
4	118145151015125011118137	4.88	10.92	Direct	PUL	1.83	1.83	4.88	Benseal				2009/08/

######################################							-						
***************************************							NAME OF TAXABLE PARTY O						
	Contractor and Well Technician Inf	ormation		ness,Address	(Street Number/Na	ame, RR)		Municipa	ity o i		Province	Date 1st Well in Cluster Constructed Date Last W	Vell in Cluster Constructed
Postal	strata Sal Sam Oline	1	#10	1-147	(Street Number/Nation's Licence No. But	seaul	/ Cû	eh	"KIChm	rond I hil	ION	Ministry Use Only	
1	4 1611 (161 1908) 169	1-13	MI	100								Date Received (yyyy/mm/dd) Date Insp	ected (yyyy/mm/dd)
£2 .	of Well Technician (First Name, Last Name)			Well Technici	an's Licence No. Da	te Submitted (v	yyy/mm/dd) 	Signature	of Technician			Audit No. Remarks	-,7EQP
1991 (1	1/2006)	~~~~~	3	B, 129		f (nistrvis :	l		4			Printer for Ontario, 2006

pg 3 of 3





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Ontario Ministry of the Environment	Well T A 0959	Delow)	Well Record
\ \ \	mperial AD95	Regulation 9	903 Ontario Water Resources Act Page of
Well Owner's Information			
Mailing Address (Street Number/Name) Well Location Address of Well Location (Street Number/Name) County/District/Municipality UTM Coordinates Zone Easting No	Beach Blud Beach Blud City/Town/Village Orthing Municipal Plan and Suble O 12313	cely of Number 4M-1265	Concession Province Ontario Depth (m(t))
General Colour Most Common Material Sord, Gray Gray Lines Gray Lines Gray Lines	other Materials vel + Soulder store 18 tre store + Soulstor ite Soulstore	General Description	0 (45 b) 45 /2 145 (145 215 (215 248) 248 301
Method of Construction Cable Tool Diamond Pu Rotary (Conventional) Jetting Rotary (Reverse) Driving Boring Digging Irri Air percussion	Well Use Wolume Placed (m/#) Dewatering Well Use Well Dewatering Well Depth (m/#) Replacement Well Test Hole Recharge Well Dewatering Well	After test of well yield, water was: Clear and sand free Other, specific If pumping discontinued, give reason: Pump intake set at (n(fi)) Pumping rate (l/min (GPM))	
Outside Diameter (cmvin) Water Details Water found at Depth Kind of Water: Fresh	Depth (m/ft) Frem To Water Quality Abandoned, other, specify Other, specify Hole Diameter	Please provide a map below following	50525" 50 60 60 60 Finistructions on the back.
Water found at Depth Gas Other, specify	From To (cm/in) Dintested	South Beach Blva Comments:	Ministry Use Only Audit No.
Bus Telephone No. (inc. area code) Name of Well Well Technician's Licence No. Signature of Technicia 0506E (12/2007)	AHAM KYAN	Ves Date Work Completed	z 108300

A 095990 Ministry of Well Ta Below) Well Record the Environment Regulation 903 Ontario Water Resources Act Measurements recorded in: Metric mperial of Page # 1385 Sevel County District/Municipality Postal Code Province Ontario Municipal Plan a Other JTM Coordinates Easting 201234 NAD | 8 3 Overburden and Bedrock Materials/Abandonment Sealing Record (see instruction) Depth (not) General Colour Other Materials General Description From bouldars OFT 172' Results of Well Yield Testing Annular Space Depth Set at (mont) Recovery Type of Sealant Used (Material and Type) Volume Placed After test of well yield, water was: Draw Down Time Water Level Time Water Level (min) John Sediff 7,8 Static 35% 36'6 pumping discontinued, give reason 18,90 135'6" Pump intake set at (nvit) 2 3 3 Pumping rate (I/min GPM) Method of Construction Well Use 4.364" 4 Not used Cable Tool Commercial □ Diamond Public on of pumping Domestic Rotary (Conventional) Jetting Municipal Municipal Dewatering hrs + min 5 Test Hole Livestock Rotary (Reverse) Driving ☐ Monitoring Final water level end of pumping (m/ft) Boring Digging ☐ Irrigation □ Cooling & Air Conditioning 10 10 36'6 Rir percussion Industrial Other, specify Other, specifi 15 15 If flowing give rate (I/min / GPM) Construction Record - Casing Status of Well 20 20 365" Recommended pump depth (m/ft) Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel) Depth (m/ft) Inside Wall Water Supply Diamete (cm/in) Replacement Well 25 From (cm/in) Test Hole Recommended pump rate -188 30 30 12 50' Recharge Well Dewatering Well 40 40 Observation and/or Monitoring Hole 50 ☐ Alteration (Construction) 60 60 Abandoned, Insufficient Supply Construction Record - Screen Map of Well Location Abandoned, Poor Outside Please provide a map below following instructions on the back Water Quality Depth (m/ft) Material Slot No. Diameter Abandoned, other, (Plastic, Galvanized, Steel) specify Other, specify Water Details Hole Diameter Water found at Depth Kind of Water: Fresh Untested From (m(ft) Gas Other, specify 01 64 Water found at Depth Kind of Water: Fresh Huntested 0 294 (mg) Gas Other, specify 00 found at Depth Kind of Water: Fresh Untested (m/ft) Gas Other, specify Well Contractor and Well Technician Information (Street Number/Name) KEC Comments Business E-mail Address 720 Ministry Use Only Well owner's information 20100AD z 108320 Yes JUN 0 1 2010 No 010040 010050 Ministry's Copy

Ontario

Ministry of the Environment

Well Tag No. (*Place* A 095851

Well Record

A095851

egulation 903 Ontario Water Resources Act

Well Loc												3277/237/2437/0301000
Material April 1987 to a reference (Service of the Servic	ation (Street Nur	nber/Name)	To	ownship		Lot	7_	Concession	,	
		eld Street				Osgoo		Part	62,	6	76	4
County/Dis		arleton				ity/Town/Villa Greel \	-	,	Proving Onta		Posta	Code
UTM Coord	inates Z	one Easting	I N	orthing	м	unicipal Pla	n and Subic	t Number	Other		<u> </u>	
	8 3	18 4547 ledrock Materia		501170		4M-35			<u>P</u> T	BLK 5	RP4	<u>R054 a</u> 7
General C	····	Most Comm		1		er Materials	cuons on me	General Description	*		Dep From	ith (m(1))
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SECOND STATE OF STATE	volto par HA (AVA) (33)		A Salara Angel			AS OFFICE AND A STATE OF THE ST		Results of Wo	SIEVIOI			
Depth S	et at (m/st))		alant Used		Volume		After test of well yield, water was:	Dr	aw Down		ecovery
60 ⁽	50 '	Neat ce	(Material a	nd Type)		(m³/ 7.8	/	☐ Clear and sand free ☐ Other, specify Not tester		Water Level	Time (min)	Water Level
50 '	0 /					25.2		If pumping discontinued, give reason:	Static Level	4		41.7
30	<u> </u>	Detiron	te slurry			20.2			1	12.8	1	23.5
								Pump intake set at (m(t))	2	17.2	2	15.5
							\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Pumping rate (I/min / PPM)	3	20.2	3	10.3
Met ☐ Cable T		onstruction Diamond	ПР	ublic	Well Us		Not used	20	4	22.5	4	6.7
Rotary (Conventio	nal) 🔲 Jetting	5Z 0	omestic	Municipa	al 🔲	Dewatering	Duration of pumping hrs + n min	5	24	5	5.1
☐ Rotary (☐ Boring	(Reverse)	Driving Digging		vestock rigation	☐ Test Hol	e	Monitoring ning	Final water level end of pumping (m/fi)			10	
Air perc				dustrial ther, specify				41.7 **	15	29.7	15	4
		onstruction R				Status	of Well	If flowing give rate (I/min / GPM)	l	32.6		4
Inside Diameter	Open I	Hole OR Material nized, Fibreglass,	Wall Thickness		1 (m @)	Water S		Recommended pump depth (m(fi))	20	35	20	4
(cm/in)		te, Plastic, Steel)	(cmfn)	From	То	Replace Test Ho		Recorded pump rate	25	36.8	25	4
6"	Stee		.188"	+2 ′	60 ′	☐ Recharg	·	(I/min FGPM)	30	38.2	30	4
515 / 16	Орег	n Hole		60′	120 ′	Observa Monitorir	tion and/or	Well production (I/min (GPM))	40	40.2	40	4
						☐ Alteration	on n	20 Disinfected?	50	40.2	50	4
						(Constru Abando	ned,	Yes No	60	41.7	60	4
		Construction R	ecord -Scr		1	☐ Abando		Map of W			anale	
Outside Diameter <i>(cm/in)</i>	(Plastic,	Material Galvanized, Steel)	Slot No.	Depti From	n (<i>m/ft)</i> │ To	Water C Abando specify		Please provide a map below following	instruci	ons on the t	раск.	
						Other, s	- Aioon					
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		Water De				ole Diamet	T-	W.	Ħ,	1344		Streat
		ith Kind of Wate as ☐ Other, <i>sp</i> e		Untested	From	th (<i>m/ft</i>) To	Diameter (cm/in)			3art	iela	Streas
Water fou		th Kind of Wate		Untested)) — 60	8	,	٠	•		
Water fou	nd at Dep	as Other, <i>spe</i> oth Kind of Wate as Other, <i>spe</i>	r: 🗌 Fresh	Untested	60	,	515/16	O.M.				
		Well Contracto		II Technicia				U				
		Vell Contractor			+	II Contractor's	Licence No.	_ mc/	(e	nm l	71	
Business	Address (ling Co. Ltd. Street Number/Na wn Road, Ri	ime)		Mu	inicipality		Comments:				
	rankto			nn E"!! A '		Richmond	<u> </u>					
Province ON		Postal Code KOA 2ZO	Busines	ss E-mail Add air-roc i	dress k @sympa	atico.ca		Well owner's Date Package Deliver	ed			e Only
	1	nc. area code) Na		Technician (Last Name,			information package Y 2010 M	0 17 0	Audit No.	10	agn
61383 Well Techn T348	B2 170 ician's Lice 3<i>4</i> i	nce No. Signature	Graha of Technic	am, Ryan sian and/or C	ontractor Da	te Submitted	P1 29	Date Work Completed		A 444 (444 (444 (444 (444 (444 (444 (44		9 2010
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Well Record

A096007

negulation 903 Ontario Water Resources Act

Well Location Township Concession Address of Well Location (Street Number/Name) 6906 McKeown Drive Osgoode County/District/Municipality City/Town/Village Province Postal Code Greely Ontario Ottawa Carleton
UTM Coordinates | Zone | Eastin Other Northina 4M-351 Block NAD | 8 | 3 18 455093 5011835 Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on the back of this form) to 9 Depth (neft) Most Common Material General Colour Other Materials General Description From Sand Gravel & Clay 0 56 Limestone 180 Results of Well Yield Testing Annular Space Type of Sealant Used Depth Set at (m/ft) Volume Placed After test of well yield, water was: Draw Down Recovery (Material and Type) From То (m³/ft³) Clear and sand free Time Water Level Time | Water Level Other, specify Not tester (min) (m/ft) (m/ft) (min) 82 52 ' Neat cement 9.36 Static If pumping discontinued, give reason 8.3 22.1 52 [′] Bentonite slurry n 42 Leve 16.6 1 10.8 Pump intake set at (m@) 2 2 19.3 8.3 160 ′ 3 20.4 3 8.3 Pumping rate (I/min /GRM) Well Use Method of Construction 20 4 4 20.9 8.3 Cable Tool ☐ Not used ☐ Diamond ☐ Public Commercial Duration of pumping Jetting Domestic Rotary (Conventional) Municipal Dewatering 5 5 1 hrs + 0 min 21.4 8.3 ☐ Driving Rotary (Reverse) Livestock __ Test Hole Monitoring Final water level end of pumping (m/ft) Boring
Air percussion
Other, specify Digging Irrigation Cooling & Air Conditioning 10 21.4 10 8.3 22.1 Industrial Other, specify 15 If flowing give rate (I/min / GPM) 21.5 8.3 Construction Record - Casing Status of Well 20 20 8.3 21.6 Water Supply Replacement Well Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel) Depth (m@) Inside Wall Recommended pump depth (n(ft)) $1\infty'$ 25 25 21.6 8.3 (cm/n) (cm(n) From Τo Recon Inded pump rate ☐ Test Hole 30 30 62 [′] Recharge Well 21.7 8.3 .188 +2 Steel ☐ Dewatering Well 40 21.9 40 8.3 Observation and/or 515/18 Open Hole 62 180 Well production (I/min/GPMD) Monitoring Hole 50 20 22 8.3 ☐ Alteration Disinfected? (Construction) 60 60 Yes No 22.1 8.3 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 Slot No Abandoned, other, (Plastic Galvanized (cm/in) specify Other, specify Water Details Hole Diameter Water found at Depth Kind of Water: Fresh 🍇 Untested Depth (n/ft) Diamete From (cm/in) (mft) Gas Other, specify Cokerstreet Water found at Depth Kind of Water: Fresh Wuntested 62 6 (m/t) Gas Other, specify 515/18 Water found at Depth Kind of Water: Fresh Muntested <u> 180</u> ☐ Gas ☐ Other, *specify* Well Contractor and Well Technician Information # 6906 mcKeown Well Contractor's Licence No Business Name of Well Contractor Air Rock Drilling Co. Ltd 11/19 Business Address (Street Number/Name) 6659 Franktown Road, RR#1 lunicipality Richmond Comments Postal Code Business E-mail Address air-rock@sympatico.ca ON K0A 2Z0 Ministry Use Only Well owner's Date Package Delivered Audit No. z 119918 Bus, Telephone No. (inc. area code) Name of Well Technician (Last Name, First Name) package delivered | Y2010 | M ₩ 225 6138382170 Hogan, Dan Technician and/or Contractor Date Submitted Date Work Completed Y Yes Signature of 2010 11 29 LAN 17 2011 T3058 ☐ No

Ministry's Conv

A106100

Well Record

Regulation 903 Ontario Water Resources Act

Well Location Address of Well Location (Street Number/Name)	Township	Lot Sub lo	75 Concession
1333 South Blach Bauley	and (1+4 U	Hawa 4	Province Postal Code
	()320	∞	Ontario KOA 2WO
NAD 8 3 / 8 4 5 4 5 1 5 6 1 2 1 8	Municipal Plan and Sublo	265	Other
Overburden and Bedrock Materials/Abandonment Sealin	g Record (see instructions on the Other Materials	back of this form) General Description	Depth (m/ft)
	/	Soft	From To
Brown Sand Course 90	ave/Stone		acked 3.1 12.5
Grey grove/ s	tone, Boulder	packed	12.5 14.6
Grey Timestone	<u></u>	lawered	14.6 25.35
3		7	
Annular Space Depth Set at (m/ft) Type of Sealant Used	Volume Placed	Results of Well yield, water was:	ell Yield Testing
From To (Material and Type)	(m³/ft³)	☐ Clear and sand free☐ Other, <i>specify</i>	Time Water Level Time Water Level (min) (m/tt) (min) (m/tt)
0 /6.6 cimenterout	7Bag	If pumping discontinued, give reason:	Static 13,24 3.32
			1 3.25 1 3.26
		Pump intake set at (m/ft)	2 3,27 2 3,24
Method of Construction \	Well Use	Pumping rate (I/min / GPM)	3 3.28 3 7
	Commercial Not used Municipal Dewatering	Duration of pumping	4 3, 28 4
☐ Rotary (Reverse) ☐ Driving ☐ Livestock ☐	Test Hole Monitoring Cooling & Air Conditioning	hrs + min Final water level end of pumping (m/ft)	5 2.29 5
Air percussion Air Rotary Industrial Other, specify		3.32	10 3.30 10
Construction Record - Casing	Status of Well	If flowing give rate (I/min / GPM)	20 3.31 20
Inside Open Hole OR Material Wall Depth (m Diameter (Galvanized, Fibreglass, Thickness (cm/in) Concrete, Plastic, Steel) (cm/in) From	√ft)	Recommended pump depth (m/ft)	25 3 3 1 25
1 // (2)	Test Hole Recharge Well	Recommended pump rate (I/min / GPM)	30 3,32 30
	Dewatering Well Observation and/or	Well production (I/min / GPM)	40 3,32 40
15.55 Open Hole 16.6 2	☐ Alteration	Disinfected?	50 3.52 50
	(Construction) Abandoned, Insufficient Supply	Yes No	60 3.32 60 -
Construction Record - Screen Outside Material Depth (m	Abandoned, Poor	Map of W Please provide a map below following	/ell Location g instructions on the back.
Diameter (cm/in) Material Slot No. From From	To Abandoned, other, specify		N
	Other, specify	South willness	L. Dr.
Water Details Water found at Depth Kind of Water: Fresh Tontested	Hole Diameter Depth (m/ft) Diameter		
24 (m/ft) Gas Other, specify Water found at Depth Kind of Water: Fresh Untested	From To (cm/in)	Lake	Lekelo
(m/ft) Gas Other, specify	0 16.6 21.23		
Water found at Depth Kind of Water: Fresh Untested (m/fit) Gas Other, specify	6.6 25.9 15.55	:	well
Well Contractor and Well Technician I	South Bank P	30	
Business Name of Well Contractor Dout agois Well Drilling h	Deschi	250M-	
Business Address (Street Number/Name) 1	Comments:	<i></i>	
Province Postal Code Business E-mail Addres	Nation		red Ministry Use Only
Bus. Telephone No. (inc. area code) Name of Well Technician (Las	t Name, First Name)	information package	Audit No.
Well Technician's Licence No. Signature of Technician and/or Contr	Yichael actor Date Submitted	delivered Date Work Completed	
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£>0	ntario Ministr	y of vironment	Well Ta	g No. (Place Sticker a		Well Record ion 903 Ontario Water Resources Act
Measurem	ents recorded in:	letric Imperial		NIT		Page of
Well Own	ner's Information	ast Name / Organiza	ion 1		E-mail Address	□ Well Constructed
1	SEN GO	RDON	10	LDING	35	Well Constructed by Well Owner
0	dress (Street Number/Nam	ne)	1	Municipality	Province A Postal Co	de Telephone No. (inc. area code)
100	X 210			Manoti	CF ON K	AMILITA
Well Loca	ation Well Logation (Street Num	nhat/Nama)	HHHHH	Township	Lot	Concession
Address	ar K way	Road		0891	orde 6	3
County/Dis	trict/Municipality	2 / 1	(City/Town/Village	1	Province Postal Code
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	inates Zone Easting	Northing	1135	Municipal Plan and Subl	ot Number	Other
NAD		MAIDOI	1691	5 7 7 7 7 7 7		
General Co	en and Bedrock Materia			ner Materials	General Descript	ion Depth (n(ft)
General Ci	, -	of Material	1.100	A A I	Ocheral Descript	From 10
	6"0	rilled	Mer	1 4 por	donnerd	0' 137'
TW	#5-Tag	A004	362	- Audi	+204877-	teb 17, 2004
	1					
		Annular Space			Paculte of	Well Yield Testing
Depth Se	et at (m/N)	Type of Sealant Use	1	Volume Placed	After test of well yield, water was:	Draw Down Recovery
From	То	(Material and Type)		(m³/ft³)	Clear and sand free	Time Water Level Time Water Level
137	6' Hato	Plua			Other, specify	(min) (m/ft) (min) (m/ft) Static
11	01 800	C. Pillo			If pumping discontinued, give reason	n: Level
6	0 lare	reficio				1 1
					Pump intake set at (m/ft)	2
Meth	nod of Construction		Well Us	se	Pumping rate (Mmin / GPM)	3 3
Cable To		Public	Comme			4 4
-	Conventional)	☐ Domestic	Municip		Duration of pumping	5 5
Boring	Reverse) Driving	Livestock	Cooling	ole Monitoring	Final water level end of pumping (n	0.090
Air peccu	열시 성도 하면 이번 시간으로 가장 사람이 되었다. 그 그 나는	Industrial	ocomig	a var conditioning	I was noted and as being a la	10 10
Other,	pecify	Other, speci	ly		If flowing give rate (I/min / GRM)	15 15
	Construction Re	The second secon		Status of Well		20 20
Inside Diameter	Open Hole OR Material (Galvanized, Fibreglass,	Thickness	pth (m/ft)	☐ Water Supply ☐ Replacement Well	Recommended pump depth (m)	
(cmvin)	Concrete, Plastic, Steel)	(cm/in) From	То	Test Hole	December and a summer sets	25 25
				Recharge Well	Recommended pump rate (l/min / GPM)	30 30
				Dewatering Well Observation and/or	14/-11 1 1/- 1/- 1/- 1/- 1/- 1/- 1/-	40 40
				Monitoring Hole	Well production (l/min / GPM)	50 50
				Alteration (Construction)	Dishfected?	
				Abandoned, /	Yes No	60 60
RESIDER	Construction Re	ecord - Screen		Insufficient Supply Abandoned, Poor		Well Location
Outside Diameter	Material Octob	Slot No.	pth (m/ft)	Water Quality Abandoned, other,	Please provide a map below follow	ing instructions on the back.
(cm/in)	(Plastic, Galvanized, Steel)	From	То	Construction		1 8
						1 2
			1	New Subdivi	Day Day	12018
-	Water Det	alle	-	Hole Diameter	TOUR KW	ayfood b
Water foun	nd at Depth Kind of Water		_	oth (m/ft) Diameter	1	2000
	n/ft) Gas Other, spe		From	To (cm/in)	SKW F	- others IDO
Water foun	nd at Depth Kind of Water	r: Fresh Untest	ed		JAN F	180
the state of the s	n/ft) ☐ Gas ☐ Other, spe				W	185
	nd at Depth Kind of Water		ed		(x)	123
(n	n/ft) Gas Other, spe				4	1 *
Business N		r and Well Technic		ell Contractor's Licence No.		
Business Name of Well Contractor Well Contractor's Licence No.						
Business Address (Street Number/Name) Municipality Comments:						
000						
Province Postal Code Business E-mail Address						N004000
information						
Bus.Telepho	CIRREDITO POSSILIZIONE KOM DE VIVIVIMIMIDIDI 7119939					
Well Technic	ign's Licence No. Signature	of Technician and/or	Contractor Da	ate Submitted	Yes Date Work Complet	ted
TIL	+ Ka	-S	A STATE OF THE PARTY OF THE PAR	1011 10131	XNO DOLLANI	(8) Received 1 0 2011
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Ministry of the Environment

Well Tag No.

A113265

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Well Record

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JTM Coordin		Easting	Nort	hing	Medical Const	Greely Municipal Plan	and Sublot	t Number		Other			
NAD 3			63 Is/Abandon	50122 ment Seal		4M-12 ord (see instruct		back of this form)	1201003998	S/L	115	100	^
General Col	-	Most Comm				her Materials			al Description		F	Dep	th (m(ft))
			Sand	& Gravel	4	> E	Boulders	la construction with a construction of the con	Const.			0 '	42
Grey	nterger र समें नि	AMM TONS - 1909	908.4		New York In New York	nist unique descript		TO SEE THE PROPERTY AND ASSOCIATION OF THE PARTY ASSOCIATION OF THE PARTY AND ASSOCIATION OF THE PARTY AND ASSOCIATION OF THE PARTY	District Control	Platers in		42	94
Grey	Control Control	TOWN TO REPORT WORLD	Limes	1365 12 LA G	encimparte							55 °	100
diey													
Depth Set	t at (m/ft)		Annular S Type of Seals			Volume F	Placed	After test of well yield, v	esults of We vater was:		d Testing aw Down	F	lecovery
From	То		(Material and	Type)		(m ^e /f	7	Clear and sand fre	90	(major)	Water Level	Name and Address of the Owner, where	_
50 '	40		ement S	imed	er onto a si	9.36		If pumping discontinued	Not teste d, give reason:	Static Level	8.6	4	12.9
40 '	0'	Benton	ite slurry			29.4	4	X		1	10.5	1	10.8
								Pump intake set at (nt	A)	2	10.8	2	9.6
34-41-	-1 -10				10/-11/11			80 ' Pumping rate (Vmin (0	GPM)	3	11	3	8.6
Cable Too		□ Diamond			Well U		Not used	20		4	11.2	4	8.6
Rotary (C		Jetting Driving	Dom		Munici	The second secon	Dewatering Monitoring	Duration of pumping	in	5	11.3	5	8.6
Boring Air percus	ssion	Digging	Irriga Indu	ation		g & Air Condition		Final water level end of	pumping (not)	10	11.7	10	8.6
Other, sp				er, specify				12.9 '/ If flowing give rate (I/m	in / GPM)	15	11.9	15	8.6
Inside		oR Material	ecord - Casi	ng Depth	(m/ti)	Status of Water Su		Recommended pump	donth (m/ft)	20	12.1	20	8.6
Diameter (cr(n/in)	(Galvanize	d, Fibreglass, Plastic, Steel)	Thickness (cm/in)	From	То	Replacen	ment Well	- 8	D'	25	12.2	25	8.6
6"	Steel	on Philosophia	.188	+2'	50	Test Hole	e Well	Recommended pump	rate	30	12.3	30	8.6
57B"	Open	Hole	TO Secure Control	50 ′	100	Dewaterii Observati		Well production (l/min	(GPM)	40	12.5	40	8.6
					40000	Monitoring Alteration		20 Disinfected?	0	50	12.8	50	8.6
						(Construc	ed,	Yes No		60	12.9	60	8.6
SHARR	Co	onstruction Re	ecord - Scree		<u>mm</u>	Abandon	The state of the s		Map of W				
Outside Diameter (cm/in)		aterial vanized, Steel)	Slot No.	Depth From	(m/it) To	Water Qu Abandoni specify Other, sp	ed, other,	Please provide a map I	selow following	#ISU GCD	ons on the be	1	Con
55 (m) Water found 94 (m) Water found	Gas d at Depth Gas d at Depth d at Depth	Water Det. Kind of Water Other, specified Other, specified of Water Other, specified Other,	cify Fresh Fresh Fresh Fresh Fresh	X	De From	Hole Diameter To	Diameter (cn(in))	Soul	# 135 & Be Boul			/	out Willoock
Business Na		ell Contractor	r and Well 1	echnician		ation /ell Contractor's L	inance No		10-1	1	-11	LM	- /
		ng Co. Ltd.			V	1119	Joence No.		190,	V			
Business Ad	Idress (Stre	et Number/Na n Road, R	me) R#1	Certification	M	lunicipality Richmond	1	Comments:		0			
Province	Pe	ostal Code	Business	E-mail Addr		patico.ca		Well owner's Date Pa	ackage Delivere	nd	Ministr	ry He	e Only
	ne No. (inc. a	area code) Na	me of Well Te					information package	what is let	DIA	Audit No.		
613888 Well Technicia T305	an's Licence	No. Signature	Hogan of Technician	Dan and/or Cor	ntractor Da	ate Submitted	7 39	delivered Date W	011 06 ork Completed	23	z1:	T 9	22 20

Po	ntario Ministr	y of vironment	Tag#: <i>A</i> 7 A128	\128067 3067	Print Below)	Regulation	903 Ontario W	ater Res	
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227001000000000000000000000000000000000	ner's Information				E-mail Address			_	
First Name	L	ast Name / Organization	onstruction C	`nm	E-IIIaii Addiess			_	Constructed ell Owner
Mailing Add	dress (Street Number/Nan		Municipality		Province	Postal Code	· · · · · · · · · · · · · · · · · · ·	No. (inc.	area code)
The second secon	Concourse Gate	<u>: #200</u>	Otta	awa	ON	L K2E	<u> 788 </u>		
Well Loca	ation Well Location (Street Nun	nher/Name)	Township			Lot	Concession	on .	
	5 McKeown Roa			goode	odovana osak ministrasinan		and the second		
	trict/Municipality	19	City/Town/\			4	Province	Postal	Code
Qtt	awa-Carleton	Northing	Gre	ely Play and Sublo	t Number	i i i eyerteriyeti	Ontario Other		
NAD					it Number	annia Milanan makana arawata	P/I 6		
	en and Bedrock Materia	als/Abandonment Seal	ing Record (see ins		back of this form)	100	ASSOCIATION CO.		
General Co	olour Most Comm	non Material	Other Materia	als	Gene	ral Description		Depi From	th (m) th
		Sand & Gravel		pk/tubble-complete		(1879) sambin keh	Netter Report Forest Control	o ′	5 ′
Brown		Clav	(1917) (1917) (1917) (1917) (1917) The Thirt (1917) (1917) (1917) (1917) (1917)		aning AST (protection of the State in the			5 [']	21
		Sand & Gravel	a de la composition della comp	Boulders				21 ′	60 ′
	1			Elizabeth Committee Commit		and the first state of the stat		60′	114'
@re	Carron and another species on this religious	Limestone					No control of the second	114	179
1	& White	Sandstone	21.8	A Section 1				179	185
	& White	Sandstone	and the second property of the second propert					185	
Grey	& White	Sandstone						100	. 201

15.00.00		Annular Space			After test of well yield,		Il Yield Testin		ecovery
Depth Se From	et at (<i>m/ft)</i> To	Type of Sealant Used (Material and Type)	F	me Placed (m³/ft³)	Clear and sand f		Time Water Le		Water Level
66	56 Neat o	ement	(in the second	10.9		Not teste	(min) (m/ft)	(min)	(m/ft)
56		ite slurry		37.8	If pumping discontinue	ed, give reason:	Level 16	7	54.3
	U DEIIOII	ite sitary	***	\$81. * 185			1 24.	3 1	39
			and the second s		Pump intake set at (r		2 27	8 2	30.7
				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	180		3 30		27.8
Meth	nod of Construction		Well Use		Pumping rate (I/min 🕻	OF BY	Santa de la constante de la co		
Cable To	posent	1. =		☐ Not used ☐ Dewatering	Duration of pumping		J&		25
Rotary (F				☐ Monitoring	hrs + out		5 34	5 5	23.6
Boring	☐ Digging	☐ Irrigation ☐ Industrial	Cooling & Air Cond	ditioning	Final water level end of	of pumping (m/ft)	¹⁰ 40	5 10	19.6
Air percu		Other, specify			If flowing give rate (I/I	min / GPM)	15 43	15	16.7
Editorial Control	Construction R	ecord - Casing	State	us of Well	X	o di sur diferenti e com	20 45	a 20	16.7
Inside Diameter	Open Hole OR Material (Galvanized, Fibreglass,	Wall Depth Thickness		er Supply acement Well	Recommended pump	o depth (n(ft))	05	. 05	
(cm/in)	Concrete, Plastic, Steel)	(cm/in) From	Test		Recommended pum	<u> †0' </u>	***		16.7
6"	Steel	.188 +2		narge Well atering Well	(Vmin NGPM)	Allering and the second	30 47	8 30	18.7
S 15/1	⁴ Open Hole	66	201 🐪 🔲 Obse	ervation and/or	12 Well production (I/mir	T (SEM)	⁴⁰ 50	2 40	16.7
J 110			— Moni □ Alter	itoring Hole ation			50 52	2 50	16.7
**			(Con	struction)	Disinfected?		60 54	3 60	18.7"
Danish Branch Branch		umana Fra Armania	Insuf	fficient Supply	7	Man of W	ell Location		
Outside	Construction R	ecord - Screen Depth		ndoned, Poor er Quality	Please provide a map	helow following	instructions on the	e back.	
Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No. From		ndoned, other,			PIVE		
							DRIV		
			Othe	er, specify	1.0	AM =			
					KIL				
Water four	Water De nd at Depth Kind of Wate		Hole Dian Depth (m/ft)	neter Diameter	I VA	2-4	an_		
	(ft) ☐ Gas ☐ Other, spe	please and the property of the set with the first of the set of th	From To	(cm/in)		J50 (4) ,		
	nd at Depth Kind of Wate		and the second second	ig . <u>0</u> .		X	175		
	m∰ Gas Other, spe		88 70	17515/	4	\		,	
	nd at Depth Kind of Wate			110 /1C		A X	1015) \	
		or and Well Technician	Information		Accommon to the common of the	AK.	6815	DM	441
Business N	Name of Well Contractor			or's Lice.ice No.	Contraction of the Contraction o	1	CVED	_ 	AD
Air R	ock Drilling Co. Ltd.		1119				V	Ko	1/0
	Address (Street Number/Na Franktown Road, R		Municipality Richm	ond	Comments:	COM /			
Province	Postal Code	Business E-mail Add		The state of the second	1/2 HP - 10	OFM SET (
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Ministry of the Environment

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Well Record

Regulation	903	Ontario	Water	Resources	A

n	903	Ontario	Water	Resources	Act

Page_____ of___

		n (Street Numbe			Township		Lot 4		Concession 4	1	
	South \ strict/Municip	<u>/illage Driv</u>	e		Osgoode City/Town/Village			Provin		Posta	I Code
•	wa-Carl inales Zone				Greely Municipal Pan and Su		1	Onta	ario		
		1	Northin			olot Number		Other			
NAD	8 3 12	A54832	501 ∕Abandonme	2327	AM-1265 cord (see instructions on t	he back of this form)		S/L	17		
General C		Most Common			ther Materials		ral Description	555000000000000000000000000000000000000		Dep From	oth (<i>m(ti)</i>
Brown			Sand						(27
PD1 624.11			Sand & Gra	avel					2	27 (38
Grey			<u>Cano a on</u> Limestone		, 111				3	38 ′	110 (
			Limestone							110 (124
Grey			Sandstone		**************************************					124 '	175
		Takan Takan Takan	Sandstone Sandstone							175 ′	181
Grey &	AANIE	etripolegia et esperante de la fi	Samustonie					1			
		-									-
The same of the sa			Annular Spa	CE			Results of We	ll Yiel	d Testing		
•	et at (m @)	Ту	pe of Sealant	Used	Volume Placed	After test of well yield,	water was:	Dr	aw Down Water Leve	F	Recovery Water Level
From	To		Material and Typ	pe)	(m¾D) 9.36	☐ Clear and sand f☐ Other, specify		(min)	(m/ft)	(min)	(m/ft)
48 '	38	Neat ceme		TWO IS NOT THE REAL PROPERTY.		If pumping discontinue		Static Level	31	Inggreen	74.9
38 ′	0	Bentonite s	slurry		16.8			1	38.7	. 1	67.8
	- Constitution of the Cons					Pump intake set at (r	m @	2	42.8	2	50
100000000000000000000000000000000000000					*	160 '		ļ		3	
Met	hod of Co	nstruction		Well	Jse	Pumping rate (I/min /		3	45.8		41.6
Cable T		Diamond	Public	Comr		20 Duration of pumping		4	48,5	4	36.9
☐ Rotary (Conventional Reverse)	Jetting Driving	Domesti		·	hrs + 0	min	5	50.b	5	33.8
Boring	,	Digging	☐ Irrigation	·	ng & Air Conditioning	Final water level end of 74.9	of pumping <i>(m/ft)</i>	10	57.7	10	31.
Air perc			☐ Industria			If flowing give rate (I//	min / GPM)	15	62,2	15	1
	Cor	struction Rec	ord - Casing		Status of Well		•	20	65,2	20	
Inside Diameter		OR Material d, Fibreglass, T	Wall Thickness _	Depth (m/ft)	Water Supply Replacement Wel	Recommended pum	depth (m/H)	25	66,9	25	1.
(cm/@)	Concrete,	Plastic, Steel)	(cm/in)	rom To	Test Hole	Recommended pum	sig (m)	100000000000000000000000000000000000000		30	
6''	Steel		188 + 2	2′ 48′	Recharge Well Dewatering Well	(I/min / EPA) 20	et just	30	68.6		
8 ''	Open H	ole	48	3 181	Observation and/or		1/ SEM)	40	71.2	40	
					── Monitoring Hole☐ Alteration	20 Disinfected?		50	73.1	50	1 17
					(Construction) Abandoned,	Yes No		60	74.9	60	A
	C	onstruction Rec	ord - Screen		Insufficient Supply		Map of W		cation		
Outside	I M	atorial		Depth (m/ft)	Abandoned, Poor Water Quality	Please provide a map	below following	instruc	tions on the	back.	
Diameter (cm/in)		Ivanized, Steel)	Slot No.	To To	Abandoned, other specify	11 V W	1200				0,
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- 00g - 1000		Water Detai	ls		Hole Diameter				1	Jo	60/26 2017-
Water fou	nd at Depth	Kind of Water: [ntested D	epth (<i>m/ft</i>) Diamete				101	$X_{\alpha'}^{'}$	B9\ K
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		Other, specif	^	nestea	0 181 6	1		/	Y"	٧ ،	~X) `
		Kind of Water:		ntested		1/4		A			_
(/		Other, specif						$/ \Gamma$	•		
Business	W Name of Wel	ell Contractor : L Contractor	and Well Tec	hnician Inforr	nation Well Contractor's Licence N	0.		13	35'		
Air Ro	ck Drilling	Co. Ltd.	500 LL 19		1119			-			
Business A	Address (Stre	et Number/Name Road, RR#1	e)		Municipality Richmond	Comments:		a mm			
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Well Tag No. (Place Sticker and/or Print Below

Well Record

A119641 on 903 Ontario Water Resources Act the Environment A119641 Page X Metric Imperial Well Owner's Information Last Name / Organization E-mail Address ☐ Well Constructed by Well Owner M. Scapillati Flooring Inc. Mailing Address (Street Number/Name) Postal Code Telephone No. (inc. area code) Province Municipality 613 839 3462 K2K 1X3 Kanata Ontario P.O. Box 13090 Well Location Concession Address of Well Location (Street Number/Name) Township 5 6786 Hiram Drive Osgoode Postal Code City/Town/Village Province County/District/Municipality Ontario Greely Ottawa Carleton Municipal Plan and Sublot Number Other Northing UTM Coordinates Zone | Easting NAD | 8 | 3 | 1 | 8 454621 5011602 Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on the back of this form) Depth (m/ft, General Description General Colour Most Common Material Other Materials From 2.43 Packed Clay Brown 2.43 4.87 Sticky Clay Grey 4.87 17.67 Loose Sand Boulders Grey 17.67 29.86 Grey Limestone Results of Well Yield Testing **Annular Space** After test of well vield, water was: Draw Down Recovery ype of Sealant Used Volume Placed Depth Set at (m/ft) Time Time Water Level Water Level (m^3/ft^3) From To (Material and Type) (m/ft) (min) (m/ft) Other, specify <u>.92</u>m³ 0 19.50 Grouted Bentonite Slurry Statio If pumping discontinued, give reason: 1.73 Level 1 1 2.74 4.81 Pump intake set at (m/ft) 2 2 2.70 3.11 22.85 2.23 4.25 Pumping rate (I/min / GPM) **Method of Construction** Well Use 45.5 4 4 4.62 1.90 ☐ Not used Public ☐ Commercial Cable Tool Diamond Duration of pumping X Domestic Rotary (Conv**Muid**nal) Municipal ☐ Dewatering Jettina 5 5 7 hrs + 28 min 4.88 1.83 ☐ Monitoring Driving Livestock ☐ Test Hole Rotary (Reverse) Final water level end of pumping (m/ft) ☐ Irrigation Cooling & Air Conditioning Boring □ Digging 10 5.49 1.81 X Air percussion Industrial 6.31 Other, specify 15 Other, specify 15 5.68 If flowing give rate (I/min / GPM) **Construction Record - Casing** Status of Well 20 20 5.78 Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel) Depth (m/ft) X Water Supply Recommended pump depth (m/ft) Inside Wall Diameter Thickness Replacement Well 25 22.85 5.82 (cm/in) (cm/in) Test Hole Recommended pump rate 30 30 Recharge Well 5.85 (I/min / GPM) 19.50 .48 +.45 15.86 Stee1 Dewatering Well 45.5 40 40 5.88 Observation and/or Well production (I/min / GPM) Monitorina Hole 50 5.92 ☐ Alteration Disinfected? (Construction) 60 5.95 X 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. M Abandoned, other, (Plastic, Galvanized, Steel) From То specify Other, specify · PITLESS **Water Details** Hole Diameter Diameter (cm/in) Depth (m/ft) Water found at Depth Kind of Water: Fresh X Untested From $\begin{array}{c|c} 21.33_{\textit{(m/ft)}} \ _\text{Gas} & \boxed{\quad} \text{Other, } \textit{specify} \\ \hline \text{Water found at Depth | Kind of Water: } \ _\text{Fresh } \ \boxed{X} \text{Untested} \\ \end{array}$ 0 19.50 15.86 $28.95_{(m/ft)}$ Gas Other, specify INDUSTRIAL 29.86 19.50 15.23 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. Business Name of Well Contractor Capital Water Supply Ltd. 5 Comments Municipality Business Address (Street Number/Name) Box 490 Stittsville Province Postal Code Business E-mail Address Ministry Use Only Well owner's information Date Package Delivered K2\$ 1A6 office ∂ capitalwater.ca Ontario Audit No Bus.Telephone No. (inc. area code) Name of Well Technician (Last Name, First Name) package delivered 2 0 1 2 0 1 2 139740 | 613 836 1766 | Miller, Stephen | Well Technician's Licence No. | Signature of Technician and/or Contractor Date Submitted Date Work Completed SEP 2 0 2012 X Yes 2 | 0 | 1 | 2 | 0 | 1 | 2 | 4 ☐ No 9 | 7 20120131

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Tag#: A127925 We int Below) Well Record Ministry of the Environment Regulation 903 Ontario Water Resources Act A127925 Imperial Metric Page Measurements recorded in: Well Owner's Information Last Name / Organization E-mail Address First Name ☐ Well Constructed Slavko Concrete Finishing by Well Owner Mailing Address (Street Number/Name) Municipality Province Postal Code Telephone No. (inc. area code) K4P 1M6 6789 Sunset Blvd Greely ON **Well Location** Lot Concession Address of Well Location (Street Number/Name) Township P/L 4 Osgoode 6828 McKeown Drive Postal Code County/District/Municipality City/Town/Village Province Ontario Greely
Municipal Plan and Sublot Number Ottawa-Carleton
UTM Coordinates Zone , Easting Other Northing SIL NAD 8 3 18 4M-351 454766 5011616 Block 6 Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on the back of this form) Depth (m(ft) Other Materials General Description Most Common Material From 0 Sand & Gravel a Boulders 19 57 Limestone Grey 23 119 Grev Limestone IΔN Limestone 123 Grey uly **Results of Well Yield Testing** Annular Space Type of Sealant Used Volume Placed After test of well yield, water was: Draw Down Recovery Depth Set at (m/fb) Time (m³**(ft**)) Clear and sand free Time Water Level From To (Material and Type) Water Level Other, specify Not tested (min) (m/ft) (m/ft) (min) 64 54 10.9 Neat cement 17.9" Static If pumping discontinued, give reason: 10.4 n 33 6 54 Bentonite slurry 1 12.4 1 11.8 Pump intake set at (mft) 2 12.4 10.4 100 3 .3 12.7 10.4 Pumping rate (I/min / QEM) Method of Construction Well Use 20 4 4 13.4 10.4 Cable Tool ☐ Not used Diamond Public Commercial Duration of pumping Domestic ☐ Municipal ☐ Dewatering Rotary (Conventional) Jetting 1 hrs + 0 min 5 5 13.8 10 4 Rotary (Reverse) Test Hole ☐ Monitoring Driving Livestock Boring
Air percussion Final water level end of pumping (m/ft) ☐ Irrigation Cooling & Air Conditioning ☐ Diagina 10 10 10.4 14.4 17.9 " ☐ Industrial Other, specify Other, specify 15 15 If flowing give rate (I/min / GPM) 14.9 10.4 **Construction Record - Casing** Status of Well 20 15.7 20 10.4 Water Supply Open Hole OR Material Depth (mf) Wall Recommended pump depth (n/#) Diameter Thickne (Galvanized, Fibreglass, Concrete, Plastic, Steel) Replacement Well 25 16.3 10.4 From To recommended pump rate (cm/fn) ☐ Test Hole 30 30 Recharge Well 16.6 10.4 .188 +2 64 614" Steel Dewatering Well 20 40 40 10.4 17. Observation and/or Open Hole 64 140 Well production (I/min / GPM) Monitoring Hole 20 **#** 50 50 17.4 10.4 ☐ Alteration cted? (Construction) 60 60 Yes 🗌 No 17.9 10.4 Abandoned. Insufficient Supply Map of Well Location Construction Record - Screen Abandoned, Poor Water Quality Please provide a map below following instructions on the back. Material (Plastic, Galvanized, Steel) Depth (m/ft) #6828 MCKEDWN Slot No. Diameter Abandoned, other, From (cm/in) specify Other, specify Water Details **Hole Diameter** Water found at Depth Kind of Water: Fresh Depth (m/tt) Diamete Untested (cm/n) (m(fi) Gas Other, specify 93/4 Water found at Depth Kind of Water: Fresh Untested Π (m/ft) Gas Other, specify 64 140 Water found at Depth Kind of Water: Fresh Untested Other, specify Well Contractor and Well Technician Information Business Name of Well Contractor Well Contractor's Licence No 1119 Air Rock Drilling Co. Ltd. Business Address (Street Number/Name) 6859 Franktown Road, RR#1 Municipality Richmond 3/4 HP - 15 GPM - SET AT 100 FEET Postal Code Business E-mail Address ON KOA 220 air-rock@sympatico.ca Well owner's Date Package Delivered Ministry Use Only information Audit No. Bus. Telephone No. (inc. area code) Name of Well Technician (Last Name, First Name) package delivered 2013 0 1 28 **Z**144877 6138382170 Graham, Ryan an's Licence No. Signature of Technician and/or Contractor Date Submitted Work Completed Yes No 2013 6 1 17 EEB 1 9 2013 Kons 0506E (2007/12) © Queen's Printer for Ontario, 2007 Ministry's Copy

Ontario Well Record Ministry of the Environment Regulation 903 Ontario Water Resources Act A135268 asurements recorded in: **Well Owner's Information** Last Name / Organization E-mail Address ☐ Well Constructed 1850563 Ontario Ltd Municipality by Well Owner Mailing Address (Street Number/Name) Province Postal Code Telephone No. (inc. area code) Ottawa K2J 3X2 146 Tartan Drive ON Well Location Address of Well Location (Street Number/Name) Township Lot Concession Osgoode City/Town/Village 1358 Coker Street Province Postal Code Ontario Municipal Man and Sublot Number RP4-R-54-97 UTM Coordinates Carleton Othe 8 Northina NAD 8 3 P/B 4 NAD 8 3 12 454059 5011845 AM 35.

Overburden and Bedrock Materials/Abandonment Sealing Record (see instru tions on the back of this form) Depth (m/tt) General Colour Most Common Material Other Materials General Description From 9 Sand & Gravel Boulders Π 45 Limestone 45 138 Grey My 138 154 Sandstone Grey & White Mx 154 182 Sandstone Grey & White 182 ′ Mix 200 Grey & White Sandstone Results of Well Yield Testing **Annular Space** Type of Sealant Used After test of well yield, water was: Volume Placed Draw Down Recovery Depth Set at (neft) (mQfE) Time From (Material and Type) Clear and sand free Water Level Time | Water Level Other, specify Not tested (m/ft) 42 ′ (m/ft) 52 10.9 Neat cement Static If pumping discontinued, give reason 15'9" 0 ' 21 42 Bentonite slurry 1 25,6 take set at (n(/ft) 1801 3 32,5 Pumping rate (I/min / GPM) **Method of Construction** Well Use 4 349 4 Diamond ☐ Commercial ☐ Not used Public Cable Tool ☐ Rotary (Conventional) Domestic Livestock Municipal Jetting Dewatering (hrs + O min 5 5 ☐ Test Hole ☐ Monitoring Rotary (Reverse) Driving Final water level end of pumping (m/ft) ☐ Irrigation ☐ Cooling & Air Conditioning Boring Digaina 10 10 3411 Air percussion
Other, specify ☐ Industrial If flowing give rate (I/min / GPM) Other, specify 15 15 Status of Well **Construction Record - Casing** 20 20 Recommended pump depth (nf/ft) Water Supply Open Hole OR Material Depth (m/ft) Inside Wall Diameter (cm/m) Thickness 100' (Galvanized, Fibreglass, Concrete, Plastic, Steel) Replacement Well 25 From То (cm/in) ☐ Test Hole Recommended pump rate (I/min (GPM)) 30 30 Recharge Well 188 52 Steel Dewatering Well 40 40 <u>52</u> ′ Observation and/or Well production (I/min GPM) Open Hole 200 Monitorina Hole 20 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 Material (Plastic, Galvaniz Depth (m/ft) Diameter Abandoned, other, From (cm/in) specify Other, specify Water Details Hole Diameter Water found at Depth Kind of Water: Fresl Depth (mxtt) From (m) Gas Other, specify MCKEOWN Water found at Depth Kind of Water: Fresh Untested 93/4" (m(ft) ☐ Gas ☐ Other, specify 200 Water found at Depth Kind of Water: Fresh 52 (m/ft) Gas Other, specify Well Contractor and Well Technician Information Business Name of Well Contractor Air Rock Drilling Co. Ltd. Business Address (Street Number/Name) 1119 Municipality 6659 Franktown Road, RR#1 Richmond Postal Code Business E-mail Address Ministry Use Only Well owner's ON KOA 220 air-rock@sympatico.ca information Audit No Bus. Telephone No. (inc. area code) Name of Well Technician (Last Name, First Name) 70 | | Graham, Ryan | Signature of Technician and/or Contractor Date Submitted | 2013 | A 3 29 z 155046 Yes No 2013 0 3 11 HARRY 1 F 2012 0506E (2007/12) © Queen's Printer for Ontario, 2007 Ministry's Copy

Ministry of the Environment

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Regulation 903 Ontario	W	/a	te	r	R	es	O	ır	С	es	A	

the Environment	A128140	Reg	ulation 903 Ontario		_
Measurements recorded in: Metric mperial Well Owner's Information			Pa	ge	_ of
First Name Last Name / Organiza		E-mail Address		☐ Well	Constructed
Mailing Address (Street Number/Name)	Ontario Limited (c/o Ca	,这是大家的大家,是有的智慧的特殊,但是有效的对象,这种的人,但是是这个人的,这是这种的最好的。	al Code Telepho	-	ell Owner area code)
9094 Cavanagh Road	Ashton		KOA 1 BO		area code)
Well Location		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Transition of the state of the		
Address of Well Location (Street Number/Name) 1240 Old Prescott Road	Township Osqoode	Lot	P/L 4 Conces		
County/District/Municipality	City/Town/Village	<u>eta elektrik mili pempiantapa appterape etki. (jeuena kita</u> 1997-1997	Province		I Code
Ottawa-Carleton UTM Coordinates Zone , Easting , Northing	Greely Municipal Plan and Subl	ot Number	Ontario		
	2245		TEST	JELL #	- 1 -
Overburden and Bedrock Materials/Abandonment	Sealing Record (see instructions on the	back of this form)		District Dec. 13	u. (260)
General Colour Most Common Material	Other Materials	General Des	cription	From	oth (n
Sand	Banders para la		Marine production and a second	0'	11 '
Grey Sand y	Silt Silt		i i de la company de la co	11 '	34 ′
Sand - Cou	se +6 royal at Boulders		Andreas de la Caracteria de la companya de la comp	34 (60 ′
			talings on providental rappeges over growth	60 ′	125 ′
White Sandstone	Magnetiere Berkelberg bei er betreit er in der	Paragraphic and the second street and second stree	edrige Lewis (British a Libertina)	125 ′	136
Grey Limestone			Pipe programme Million opposition on period	136	161
Grey & White Sandstone	4 Limestor	14.57		161	292
Grey & White Sandstone	4 Limestor	le mix	estate (1966) de la companya de Maria (1966) de la companya de la companya de la companya de la companya de la La companya de la co	292	300 (
		N. Harriston and Control of Contr		(4.5.00mg)	***************************************
Annular Space Depth Set at (m(t)) Type of Sealant Use	d Volume Placed	Results After test of well yield, water wa	of Well Yield Testinas: Draw Down		ecovery
From To (Material and Type)	(m Æ)_	Clear and sand free	Time Water L. (min) (m/ft	1 !	Water Level
70 60 Neat cement	10.9	Other, specify Not t	Static 24	2	85.4"
60 ' 0 ' Bentonite slurry	25.2		Level 34		74.5
		Pump intake set at (mat)	2 44		63.4
	www.	290			<u> </u>
Method of Construction	Well Use	Pumping rate (I/min GPM)	3 47		55.4
☐ Cable Tool ☐ Diamond ☐ Public ☐ Rotary (Conventional) ☐ Jetting ☐ Diamond	☐ Commercial ☐ Not used ☐ Municipal ☐ Dewatering	12 Duration of pumping	4 49	.3 4	50.4
☐ Rotary (Reverse) ☐ Driving ☐ Livestock	☐ Test Hole ☐ Monitoring	1 hrs +0 min	5 53	. 6 5	47.5
☐ Boring ☐ Digging ☐ Irrigation Air percussion ☐ Industrial	Cooling & Air Conditioning	Final water level end of pumpin 85.4 "	9 ^(m/ft) 10 57	.4 10	38.6
Other, specify Other, speci	<u> </u>	If flowing give rate (I/min / GPI	<i>n</i>) 15 68	.4 15	34.2
	pth (m/ft) Status of Well Water Supply	Recommended numb depth (20 71	.8 20	34.2
Diameter (Galvanized, Fibreglass, Thickness (cm/m) Concrete, Plastic, Steel) (cm/in) From	To Replacement Well	Recommended pump depth (1 1 4 1 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1	. 8 25	34.2
	Test Hole Recharge Well	Recommended pump rate	30 78	.7 30	34.2
and the state of t	L_ Dewatering Well	12	40 80	2 40	34.2
6 8" Open Hole 70	Monitoring Hole	Well production (I/min / PM)	50 82		34.2
	Alteration (Construction)	Disinfected?	60 85		34.2
	Abandoned, Insufficient Supply	Yes No		.4 00	34.2
Outside Material OLLIN De	☐ Abandoned, Poor pth (<i>m/ft</i>) Water Quality	Please provide a map below fo	of Well Location Ilowing instructions on th	e back.	
Diameter (cm/in) (Plastic, Galvanized, Steel) Slot No. From	To Abandoned, other, specify		1		
	Other, specify				
Water Details	Hole Diameter		# 124 PRE	000	P
Water found at Depth Kind of Water: ☐ Fresh ☐Untest	ed Depth (<i>m/ft</i>) Diameter From To (<i>cm/in</i>)	360	- # OA	_ ~~	T
292 (m(t)) Gas Other, specify Water found at Depth Kind of Water: Fresh Untest	_	Toked 1	7 / PRE		D
(m/ft) Gas Other, specify	U 10 171	NA.	4	por	
Water found at Depth Kind of Water: Fresh Untest	70 300 6 18"	Ø -\\\	1 1	•	
(m/ft) Gas Other, specify Well Contractor and Well Technic	an Information	_	7		
Business Name of Well Contractor	Well Contractor's Licence No.	Navanu	on 1		
Air Rock Drilling Co. Ltd. Business Address (Street Number/Name)	1119 Municipality	Comments:	xive/		
6859 Franktown Road, RR#1	Richmond				
Province Postal Code Business E-mail A		LEST	WELL # 1		ng manakan an
ON KDA 270 air-ro Bus Telephone No. (inc. area code) Name of Well Technician	ck@sympatico.ca	Well owner's Date Package Dinformation	Audit No		
		package delivered Date Work Com	16/5 29 Z	: 1.55	095
B188882170 Graham, Rya Well Technician's Licence No. Signature of Technician and/or T3484 Lucy	Contractor Date Submitted 05 31		65 27 JU	L 16	2013
0506E (2007/12) © Queen's Printer for Ontario, 2007	Ministry's Copy		4 M D D Received		

Tag#: A128132 Print Below) Well Record Ministry of Regulation 903 Ontario Water Resources Act the Environment A128132 Page Metric Mmperial easurements recorded in: **Well Owner's Information** Last Name / Organization E-mail Address ☐ Well Constructed 1384341 Ontario Limited (c/o Cavanagh Const) by Well Owner Postal Code Mailing Address (Street Number/Name) Municipality Province Telephone No. (inc. area code) 9094 Cavanagh Road **Ashton** KOA 1BO On **Well Location** Concession Address of Well Location (Street Number/Name) Township P/L 4 **4S** 1240 Old Prescott Road Osgoode Postal Code City/Town/Village Province County/District/Municipality Ontario Ottawa-Carleton
UTM Coordinates | Zone . Easting Greely al Plan and Sublot Number Other Northing NAD | 8 | 3 454826 5012227 **TEST WELL** #2 Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on the back of this form) Depth (m/ft) Most Common Material General Description General Colour Other Materials From 14 0 Sand Sandy Silt 14 38 Grey 47 38 Gravel Boulders 9-47 132 Limestone Grey Sand 132 158 Grey & White Limestone 4 189 Grey & White 158 Limestone Sondatore q-Grey & White Limestone 189 200 Sandstive Results of Well Yield Testing **Annular Space** Draw Down Recovery Depth Set at (mft) Volume Pla (m) After test of well yield, water was: Type of Sealant Used Water Level From To (Material and Type) ☐ Clear and sand free Time Time Water Level Other, specify Not tested (min) (m/ft) (m/ft) (min) 10.9 58 48 Neat cement 98.7<u>″</u> Static If pumping discontinued, give reason: 34'3 Level 25.2 48 Bentonite slurry 42.8 79 1 Pump intake set at (mft) 2 48 71.7 190 3 52.3 3 65.4 Pumping rate (I/min / PM) Method of Construction Well Use 12 4 55.9 4 59.8 Cable Tool Diamond Public ☐ Commercial ☐ Not used Duration of pumping Rotary (Conventional)
Rotary (Reverse) Domestic Jettina ☐ Municipal Dewatering 5 59.2 55.1 **1** hrs + **0** min Driving ☐ Monitoring Test Hole Livestock Final water level end of pumping (m/ft) Boring ☐ Digging ☐ Irrigation Cooling & Air Conditioning 10 10 71.1 40.1 98.7 " Industrial Air percussion Other, specify Other, specify If flowing give rate (I/min / GPM) 15 77.2 15 36 **Construction Record - Casing** Status of Well 20 83.2 20 34.3 Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel) Inside Wall Depth (m/ft) Water Supply Recommended pump depth (not) Thickness (cm(n) Diameter (cm/a) Replacement Well 1 25 86 25 34.3 То 190 Test Hole Recommended pump rate Recharge Well 30 88.9 30 34.3 .188″ 1/4" +2 58 Steel 12 ☐ Dewatering Well 40 40 92 34.3 61/8" 58 ' 200 Observation and/or Well production (I/min GPM) Open Hole Monitoring Hole 12 Disinfected? 50 50 34.3 95.5 Alteration (Construction) 34.34 98.5 60 60 Abandoned, Insufficient Supply 🄀 es 🗌 No Map of Well Location Construction Record - Screen Abandoned, Poor Please provide a map below following instructions on the back. Outside Depth (m/ft) Water Quality Material Slot No Abandoned, other, (Plastic, Galvanized, Steel) From To specify (TREE LINE) Other, specify Water Details Hole Diameter Water found at Depth Kind of Water: Fresh Untested Depth From (cm/in) 93/4" 58 189 (m(fi) Gas Other, specify 200 58 Water found at Depth Kind of Water: Fresh Untested (m/ft) Gas Other, specify Mackeous Well Contractor and Well Technician Information Business Name of Well Contractor Well Contractor's Licence No Air Rock Drilling Co. Ltd. 1119 Comments: Business Address (Street Number/Name) 6659 Franktown Road, RR#1 Municipality Richmond 3/4 HP - 10 GPM SET AT 190 FT TETWOLTED Postal Code Business E-mail Address Province Well owner's information |KQA|2Z0 ON air-rock@sympatico.ca Date Package Delivered Ministry Use Only Bus.Telephone No. (inc. area code) Name of Well Technician (Last Name, First Name) package delivered 2013 66 04 z155104 61\$8382170 Graham, Ryan n's Licence No. Signature of Technician and/or Contractor Date Submitted 6 28 Yves 05 µµ∟...¹ 6 2013 T3484 | Kows 0506E (2007/12) © Queen's Printer for Ontario, 2007 No

Follow the <u>COVID-19 restrictions and public health measures (https://covid-19.ontario.ca/public-health-measures)</u> and <u>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>).

Go Back to Map ()

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

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 Numb	er
Other	

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
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 From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
50 ft	0 ft	BENTONITE SLURRY	
60 ft	50 ft	CONCRETE	

Method of Construction & Well Use

/ell Use
omestic

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	To

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 reas	son
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?	Υ

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

/23/22, 9:13 AM	мар: vveii 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 Fou	nd 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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Ministry of the Environment

Tag#: A135367

Print Below)

Well Record

A135367

Regulation 903 Ontario Water Resources Act

Measurer	nents recorded	tin: ∐ ľ	Metric 🙏	Imperial						Page_		of
Well Ov First Name	vner's Inforn e		ast Name /			Limited (clo.C	E-mail Address					Constructe
•	ddress (Street N 194 Cavar		me)			Municipality Ashton	Province On	Postal Code		Telephone N		
Well Loc		<u> </u>	JUM			/ (UIIIO))		- IZMA	11774			
Address o	f Well Location 40 Old Pr	•)	-	Township		Lot F/L	À	Concessior 4S)	
	strict/Municipal		Nuau			City/Town/Village			Provi	nce	Posta	l Code
UTM Coor	trawa - Car dinates Zone	Easting		orthing		Greely Municipal Plan and Subl	lot Number		Other	ario		
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From	et at (m/m) To		Type of Sea (Material ar			Volume Placed (m³(ft²)	After test of well yield, w	e	Time	aw Down Water Level		Recovery Water Level
58 ′	48	Neato	ement			12.5	Other, specify If pumping discontinued,		(min) Static	(m/ft)	(min)	(m/ft)
48	0 '	Bentor	iite slurry			29.4	The partipling discontinued,	give reason.	Level	12	4	14.8
				-			Pump intake set at (ma	<i>ī)</i>)	2	12.9 13.2	2	12
		41,					170		3	13.3	3	12
	hod of Const	Maria de Carlos		- 0-	Well Us		Pumping rate (I/min / G	∃M)⊅	4	13.5	4	12
	Conventional)	☐ Diamond ☐ Jetting	*Do	mestic	Comme Municipa	al Dewatering	Duration of pumping		5	- 11 - 12 - 12 - 12 - 12 - 12 - 12 - 12	5	12
☐ Rotary (l ☐ Boring		Driving Digging	Live		Test Ho	le	hrs + mir Final water level end of p		10	13.7	10000000	12
Air percu Other, s			☐ Ind	ustrial ier, <i>specify</i> _			14.8		A385 A8	14.4	10	12
		ruction Re	cord - Cas			Status of Well	If flowing give rate (I/mir	r/GPM)	15	14.8	15	12
Inside Diameter	Open Hole OF (Galvanized, F	ibreglass,	Wall Thickness		n (<i>m/ft</i>)	Water Supply Replacement Well	Recommended pump of		20	14.8	20	12
(cm/in)	Concrete, Plas	stic, Steel)	(cm/in)	From	То	Test Hole		4HP- 159pm) ate	25 30	14.8	25	12
614"	Steel		.188 ′	+2′	58	Recharge Well Dewatering Well	(Vmin / CEM) 20		40	14.8	30	12
618	Open Ho	ole		58	180	Observation and/or Monitoring Hole	Well production (l/mie∕	GPM).	50	14.8	40	12
~~~						☐ Alteration (Construction)	Disinfected?		60	14.8	50 60	12 12
	Const	truction Re	cord - Scre	en		☐ Abandoned, Insufficient Supply	Yes No	Map of We		14.8 ation	60	12
Outside Diameter (cm/in)	Materia (Plastic, Galvani	al	Slot No.		n ( <i>m/ft</i> )	Abandoned, Poor Water Quality Abandoned, other, specify	Please provide a map be				ick.	
						Other, specify		, 24 X	√W.		124	م,
Vater foun	d at Depth Kind	Vater Deta		Untested		ole Diameter	,	8		Z\ P	OVI	Day,
69 (m	Ø ☐ Gas ☐	Other, spec	ify	Х	From	To (cm/in)	1	XXY	CK		PRE	SMO
	d at Depth Kind			ntested		58/ 93/4"					, E	101
Vater_foun	d at Depth Kind		Fresh	Vintested	55	180 648"	"Itw/			\		
(m		Other, spec	and Well				***				\	
	ame of Well Cor	ntractor	anu vveli	ecunicial	Well	Contractor's Licence No.					1	
usiness Ac	ock Drilling Idress (Street N Franktown F	umber/Nam	ne)	·w	Mur	1119   nicipality	Comments: 3/4 HP - 15 GI	one and a superior of the supe	n 400			
rovince ON		Code DALZEGI	3	E-mail Add	ress k@sympa	olina no			-			
us.Telepho	ne No. (inc. area	code) Nam	ne of Well Te	echnician (L	ast Name, F	irst Name)	information	age Delivered		Ministr Audit No.	-	-
613831 /ell Technicia	B2170   an's Licence No.	Signature o	Hanna of Technician	, Jeremy Land/or Col	ntractor Date	Submitted 8 30 Y Y M M D D	delivered Date Work	13 O B	124 23			202
506E (2007/1	<u> </u>	inter for Ontari	io, 2007		Y   Y	Ministry's Copy	No Y Y			OCT	• U	cu13

₩ ·	Tag#: A14487	73 Print Below)			W	all R	ecord
Ontario Ministry of the Environment	A144873	in Bolon)	Regulation	n 903 C			
Measurements recorded in:	A STATE OF THE STA				Page_	200091212121111	of
Well Owner's Information  First Name  Last Name / Organization  Last Name / Organization	i. liib. 1/2/2 (2-	E-mail Address				Well C	onstructed
Mailing Address (Street Number/Name)	rio Limited (c/o Ca   Municipality	and a give the first the first transfer of the second of t	Postal Code		Telephone N		II Owner area code)
9094 Cavanagh Road	Ashton	On	KOA	180			
Well Location Address of Well Location (Street Number/Name)	Township		Lot		Concession		
1240 Old Prescott Road  County/District/Municipality	Osgoode City/Town/Village		P/L	4 Provin	49	Postal	Code
Ottawa-Carleton	Greely			Onta		July	
UTM Coordinates         Zone         Easting         Northing           NAD   8   3           1   8   454433     5012012	Municipal Plan and Sublo	t Number	u un an en	Other	STWE	LL#	,
Overburden and Bedrock Materials/Abandonment Sealing Re							h ( <b>/ਿ/ft)^)</b>
General Colour Most Common Material General Colour Sand	Other Materials	Genera	Description			From	447
	+ Boulders	\$				44'	481
Grey Limestone						48 🖊	127/
Grey Limestone			:			127:1	170
Grey Limestone 4		one Mix				170	238
Grey Limestone 4	Sandet	one Mix				236 1	250
	•					1	<u> </u>
				**********			:
Annular Space		Re	sults of We	II Yield	d Testing		
Depth Set at (mft) Type of Sealant Used From To (Material and Type)	Volume Placed (m³(ft³))	After test of well yield, wa	ter was:	Dra	aw Down Water Level		covery Vater Level
58 48 Neat cement	12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (12.5 (	☐ Other, specify	<u>lot teste</u>		(m <b>(ft))</b> 15.6	(min)	(m <b>(ft)</b> 57'7 "
48 0 Bentonite slurry	37.8	If pumping discontinued,	give reason:	Level	22.6		49.6
		Pump intake set at (mft		2	27.5	2	41.8
		240		3	31.4	3	37.5
Method of Construction     Well       □ Cable Tool     □ Diamond     □ Public     □ Comr		Pumping rate (I/min /GF 14	M)	4	34.2	4	34.2
☐ Rotary (Conventional) ☐ Jetting ☐ Domestic ☐ Munic	cipal Dewatering	Duration of pumping  1hrs + 0 min		5	35.6	5	31.8
☐ Boring ☐ Digging ☐ Irrigation ☐ Cooli	Hole	Final water level end of p	umping (m/ft)	10	40.5	10	24.5
Air percussion Industrial Other, specify Other, specify		57.7 If flowing give rate (I/min	/ GPM)	15	45.4	15	18.2
Construction Record - Casing	Status of Well  Water Supply	><		20	47.3	20	15.6
Diameter (Galvanized, Fibreglass, Com/in) Concrete, Plastic, Steel) (cm/in) From To	Replacement Well	Recommended pump de	epin ( <i>menu)</i>	25	48.7	25	15.6
6"4" Steel .188" +2 58	Recharge Well	Recommended pump ra	te	30	50.1	30	15.8
6/8" Openhole 58° 250	Dewatering Well Observation and/or	Well production (I/min /	PM)	40	52.7	40	15.6
	Monitoring Hole  Alteration  (Construction)	14 Disinfected?		50	55.3	50	15.6
	(Construction)  Abandoned, Insufficient Supply	Yes No		60	57.71	60	15.6
Construction Record - Screen  Outside Material Depth (m/ft)	Abandoned, Poor	Please provide a map bele	Map of We			ck.	
Diameter (Plastic, Galvanized, Steel) Slot No. From To	Abandoned, other, specify	120	d	1			
	Other, specify	Please provide a map bel			سلا		tali yalin M
	Other, specify	w secon			世12 PRE	400	OLD -
	Hole Diameter  pth (m/th) Diameter	THE THE PERSON NO.	- f	4	PRE	5 <i>C</i> 07	TRD
170 (m/tt) Gas Other, specify From	To (cm(n))	R. ++	KT.	7	$\lambda$		
Water found at Depth Kind of Water: Fresh Untested  (mft) Gas Other, specify	2110		SKW	J			
Water found at Depth Kind of Water: Fresh Untested  (m/ft) Gas Other, specify	58 ² 250 <i>6/8</i>	0	, 0				
Well Contractor and Well Technician Information							
Business Name of Well Contractor Air Rock Drilling Co. Ltd.	Vell Contractor's Licence No.		Mck	IEO,	h \		
Business Address (Street Number/Neme)	lunicipality (	Comments:			1		
Province Postal Code Business E-mail Address	, []	1 HP - 10 gpm	@ 150'				
- Control of the cont	···· H.;	Well owner's Date Packa	ge Delivered		Ministr	y Use O	inly
6138382170       Grant, Andrew	, FIRST Name)	package y y 201			Nudit No.	55	193
Well Technician's Licence No. Signature of Technician and/or Contractor Da	ate Sübmitted (/8 30	Yes Date Work 201	3 08	14			
0506E (2007/12) © Queen's Printer for Ontario, 2007	Y   Y   Y   M   M   D   D   [ : Ministry's Copy	<u> </u>	Y   M   M   D	<u>lo e</u>	<u>-067-1</u>	<u>U 20</u>	13

Ministry of the Environment

Tag#: A144822

W

rint Below)

Well Record

A144822

Regulation 903 Ontario Water Resources Act

☐ Metric Measurements recorded in: mperial Page Well Owner's Information Last Name / Organization E-mail Address Direct Bore Inc. by Well Owner Mailing Address (Street Number/Name) Municipality Province Postal Code Telephone No. (inc. area code) 5689 Power Road ON K1|G|3N4 Gloucester Well Location Address of Well Location (Street Number/Name) Township Lot Concession P/L 5 6834 Hiram Drive Osqoode County/District/Municipality City/Town/Village Province Postal Code Ontario Greely Municipal Plan and Sublot Number Ottawa-Carleton
UTM Coordinates Zone Easting Northing Other NAD | 8 | 3 119 454568 5011739 4m-351 P/L 6 Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on the back of this form) Depth (m/ft) General Colour Most Common Material Other Materials General Description F<u>rom</u> 1 0 10 Sand Clay Grey 10 21 9 Gravel 21 60 Gravel Boulders 9 Grey 60 77 Limestone 77.1 83 Limestone Grey 83 94 Limestone Grev Grey Limestone 101 Results of Well Yield Testing **Annular Space** After test of well yield, water was: Depth Set at (m(ft) Draw Down Volume Placed Recovery Type of Sealant Used (Material and Type) (m³/12) ☐ Clear and sand free Time Water Level Time Water Level Other, specify Not teste (min) (m/ft) (min) (m/ft) 56 66 9.36 Neat cement Statio If pumping discontinued, give reason: 8.9 11 0 1 56 29.4 Bentonite slurry Leve 10.9 8.9 1 1 Pump intake set at (m/t/t) 2 10.9 2 8.9 an 3 3 10.9 8 9 Pumping rate (I/min / GPM) Method of Construction Well Use 20 4 1n a Commercial 4 8.9 Diamond Public ☐ Not used Duration of pumping ☐ Rotary (Conventional) ☐ Jetting Domestic ☐ Municipal Dewatering 1 hrs + 0 min 5 10.9 5 8.9 Rotary (Reverse) Livestock ☐ Monitoring ☐ Driving Test Hole Boring □ Digging ☐ Irrigation ☐ Cooling & Air Conditioning Final water level end of pumping (m/ft) 10 11 10 8.9 Air percussion

Other, specify ☐ Industrial 11 Other, specifi If flowing give rate (I/min / GPM) 15 11 15 8.9 **Construction Record - Casing** Status of Well X 20 11 20 89 Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel) Wall Thickness Depth (mft) Inside ₩ater Supply Recommended pump depth (m/tt) Diamete (cnt/in) Replacement Well 25 25 From To 80° 11 8.9 (cm/in) ☐ Test Hole Recommended pump rate (I/min / GPM) 5/4" Recharge Well 30 11 30 188 66 9.9 Steel +2 ☐ Dewatering Well 20 66 ' 40 11 101 11 40 8 9 Open Hole Observation and/or Well production (I/min (GPM)) Monitoring Hole 20+ 50 11 50 8.9 Alteration Disinfected? (Construction) 8'9*"* 111 NYes No 60 60 Abandoned. Insufficient Supply Construction Record - Screen Map of Well Location Abandoned, Poor Outside Water Quality Please provide a map below following instructions on the back Depth (m/ft) Diamete (cm/in) Slot No. Abandoned, other, From specify Other, specify Water Details Hole Diameter Water found at Depth Kind of Water: Fresh Juntested Depth (m/ft) Diamete From (cm/in) 77 (m(ft) Gas Other, specify Water found at Depth Kind of Water: Fresh untested 66 93/41 83 (mft) Gas Other, specify 6" Water found at Depth Kind of Water: Fresh Intested 66 101 PARKWAY Well Contractor and Well Technician Information Business Name of Well Contractor Well Contractor's Licence No. Air Rock Drilling Co. Ltd. 1119 Business Address (Street Number/Name) 6659 Franktown Road, RR# Municipality Richmond Comments: 1/2 HP - 10 GPM - SET @ 90 FT Postal Code Business E-mail Address | KPA|270 | ON air-rock@sympatico.ca Well owner's Date Package Delivered Ministry Use Only information Bus.Telephone No. (inc. area code) Name of Well Technician (Last Name, First Name) Audit No package delivered 2013 0868 z 155176 |61B8\$82170| Furcell, Shannon Well Technician's Licence No. Signature of Technician and/or Contractor Date Supmitted Date Work Completed X Yes 30 2013 0808 © Queen's Printer for Ontario, 2007 No OCT 10 2012 0506E (2007/12) Ministry's Copy

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



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Menu

(/page/government-ontario)

## 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>).

Go Back to Map ()

#### 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 Numbe	er
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	

## **Annular Space/Abandonment Sealing Record**

Depth Depth Type of Sealant Used Volume From To (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

# **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?	Υ

### **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

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

Audit Number: Z166988

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/well-records/resource/3031344e-e3f2-48d5-888c-c1deadfd2f77)

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

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Ontari	Ministry of	_₩ Tag#: A1448	76 Print Below)	V	Vell R	ecord
	the Environment	A144876	Regulat	ion 903 Ontario V		
Measurements reco				Pag	je	of
Well Owner's In	Tormation  Last Name / Organiza	ition	E-mail Address		□ Well C	onstructed
	1384341	Ontario Limited (c/o Ca		<u> </u>	by We	Il Owner
Mailing Address (Str	, , , , , , , , , , , , , , , , , , ,	Municipality	Province Postal Co	de Telephon	e No. (inc. a	area code)
Well Location	anagh Road	Ashton	On KOA	IBU		
	ation (Street Number/Name)	Township	Lot	Concess		
1240 ()IQ County/District/Muni	Prescott Road	Osgoode City/Town/Village	P/L	4 4S	Postal	Code
UTM Cottains C	arieton	Graphy Municipal Play and Suble		Ontario		
NAD 0 2			ot Number	Other		_
	18 455162 5012 Sedrock Materials/Abandonment	266 Sealing Record (see instructions on the	back of this form)	TEST WI	ELL#E	<del>)</del>
General Colour	Most Common Material	Other Materials	General Descripti	on	Dept From	h (m(t)) To
	Sand				0'	30′
	Gravel	4 Sand		n de la companya de	30 ′	58 ′
Grey	Limestone			gag afersetteret, en als	58	141
Grey	Limestone	9 Grey Sandste	re		141	158
Grey	Sandstone	<u> </u>			158 ′	291
Grey	Sandstone		en entremental ent		291 ′	297
		00 # 5				
	<u>lest W</u>	WX TO				
Depth Set at (m(ft)	Annular Space Type of Sealant Used	d Volume Placed	Results of ' After test of well yield, water was:	Well Yield Testin  Draw Down		coverv
From To	(Material and Type)	(m³FD)	☐ Clear and sand free	Time Water Le	evel Time	Water Level
132 1221	Neat cement	9.36	Other, specify  If pumping discontinued, give reaso	Static 33	284	(m/ft)
122 '   0 '	Bentonite slurry	37.8	in parriang discontantage, give reason	Level		166
			Pump intake set at (m##)			152. <u>3</u>
		2000	280	2 49.		1453
Method of C	onstruction	Well Use	Pumping rate (Ilmin (GPM))	3 55.	2 3	139.5
Cable Tool Rotary (Convention	☐ Diamond ☐ Public nal) ☐ Jetting ☐ Domestic	☐ Commercial ☐ Not used ☐ Municipal ☐ Dewatering	12 Duration of pumping	4 60.	8 4	1335
Rotary (Reverse)	☐ Driving ☐ Livestock	☐ Test Hole ☐ Monitoring	hrs + min	5 66.4	4 5	128.0
Boring Air percussion	☐ Digging ☐ Irrigation ☐ Industrial	Cooling & Air Conditioning	Final water level end of pumping (m	10 89.	3 10	104.7
Other, specify	Other, specif		If flowing give rate (Ilmin / GPM)	15 107	.3 15	85.8
	onstruction Record - Casing  lole OR Material Wall De	Status of Well  epth (m/ft) X Water Supply	Recommended pump depth (mlft)	20 121	.8 20	70.9
	ized, Fibreglass, Thickness e, Plastic, Steel) (cm/in) From	To Replacement Well	250	25 133	.3 25	59
614 Steel	.188 +2 '	/   = = = = = = = = = = = = = = = = = =	Recommended pump rate (Ilmin(GPM))	30 143	30	50
ん" Open		Dewatering Well	12 Well production (//min√GPMD	40 155	i.8 ⁴⁰	38
O Open	Title   134	Monitoring Hole		50 162		33.8
		(Construction)	Disinfected?  Yes No	60 166		33.8 ′′
	Construction Record - Screen	Insufficient Supply  Abandoned, Poor		Well Location		33.0
Outside Diameter	Material Slot No De	epth (m/ft) Water Quality	Please provide a map below followi		e back.	
(cmlin) (Plastic, G	Galvanized, Steel) Slot No. From	To Abandoned, other, specify	Test			
		Other, specify	( 00 mg	155	林	1240
			#5/	100	7/	iD .
Natar faund at Dani	Water Details th Kind of Water: Fresh Untest	Hole Diameter  Depth (m/ft) Diameter		DET	-10	Moth
Annual Control of the	s Other, specify	From To (cm/in)		ne XXX	× 194	40
	h Kind of Water: Fresh Untest	ed 0 132 9 3/4"	VXX Fence	· · · · · · · · · · · · · · · · · · ·	~ · 1 ·	ROAD
	s Other, specify		MA	· IN	1.	•
-	os Other, specify			1	· \	
V	Well Contractor and Well Technic		Test NOO #5	The state of the s		
Business Name of W		Well Contractor's Licence No.	MOVE	OW NDA	NEI	
Air Rock Drilli Business Address (St	treet Number/Name)	1119 Municipality	Comments:			
	Poetal Codo Resinose E mail A	Richmond	1 HP - 10 GPM SET @	250 FT	W#	5
Province	Postal Code Business E-mail A KOA 2ZO air-ro	Address ock@sympatico.ca	Well owner's Date Package Delive	ered Mir	nistry Use	Only
Bus Telephone No. (inc	c area code) Name of Well Technician	n (Last Name, First Name)	information package	Audit No		
61383B2170	Hanna, Jerem Ce No. Signature of Technician and/or	NY Contractor Data Submitted	delivered Date Work Complete	ed Z:	1670	24
T363	2 Signature of reclinician and/or	Contractor Date Submitted	□ No Y 2014 0	■ W035405954050	A	9 2016
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Date Package Delivered

2015 0 2 11

Date 2015 Completed 0 6

Well owner's

package delivered

X Yes

No

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Bus Telephone No. (inc. area code) Name of Well Technician (Last Name, First Name)

enen

Wall Bell Fab 's Lice

Signature of Technician and/or Contractor Date 300 hitted 2

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APR 2 4 2015

Audit No.Z

Onta	Ario Ministry of the Environm	~		<b>a g # : A 1777</b> A177769	69 int Below)	Regulatio	n 903 C	Ontario Wai	ter Res	ecord
Measurements		Imperial						Page_		of
Well Owner's		ne / Organizat	ion		E-mail Address				1 Mall C	Constructed
1 ii 3t Name	Edot Har	Maratho	n Drillin	ig Co. Ltd.	Z man / tdareee			L	•	ell Owner
-	(Street Number/Name)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Municipality	Province	Postal Cod		Telephone N	lo. (inc.	area code)
	liram Road			Greely	ON	K4F	1A2			
Well Location Address of Well	l Location (Street Number/Na	ame)		Township		Lot .		Concession		
	liram Road			Osgoode		PLL	4	2	45	
County/District/N				City/Town/Village			Provin		Postal	Code
UTM Coordinates	ta waniwayii	, Northing	Angles and a second	Greely Municipal Plan and Suble	ot Number		Other	ario		
NAD 8 3			1876	Managar Fall and Sast	o. ( ( a. ( ) a					
Name and Address of the Control of t	nd Bedrock Materials/Aba			cord (see instructions on the	back of this form)					
General Colour	Most Common Mat	erial	C	ther Materials	Gene	ral Descriptio	n		From	th (m/stt) To
	Same Same	and	q.	Clay					0 '	28
		and & Gra	vel	<b>਼</b> Boulder	<b>5</b>				28 ′	54 ′
Grey	To the state of th	imestone		11/11			***************************************		54 ′	143
Grey	5	andstone							143	161
		andstone					1100		161	232′
Grey									232	247
Grey	<u> </u>	andstone							247	280′
Grey		andstone				stillinger om engelskieffe			£41,	EUU.
										Name and American
	Ann	ular Space				Results of W	ell Yiel	d Testing		100
Depth Set at (n		f Sealant Used al and Type)	l	Volume Placed	After test of well yield, v		-	aw Down Water Level		ecovery Water Level
	i4 Neat cemen			21.8	Other, specify			(m/ft)	(min)	(m/ft)
54 / 0	) / Bentonite si	Mark I		16.8	If pumping discontinue			26'6"		86.6 ″
J4 L	Dentonite 30	arry		10.0			1	35.5		60
					Pump intake set at <i>(n</i>	M)	2	41.3	2	50.8
					200'					
Method o	of Construction		Well U	Jse	Pumping rate (I/min / 9	GPM)	3	45.6	3	45.6
Cable Tool		Public	☐ Comn		Duration of pumping		_ 4	49.2	4	42.2
☐ Rotary (Conver☐ Rotary (Revers		Comestic Livestock	☐ Munic		hrs + O n	nin	5	52.1	5	39.5
Boring		Irrigation		ng & Air Conditioning	Final water level end of	f pumping (m/ft	10	61.3	10	33
Other, specify		] Industrial ] Other, <i>specif</i> y	,		86.6.			66.6		27
Other, epeciny _	Construction Record -			Status of Well	If flowing give rate (I/m	nin / GPM)	15			
	en Hole OR Material Wal		oth (m/#)	Water Supply	Recommended pump	depth (rb/ft)	20	69.9	20	26.6
	lvanized, Fibreglass, Thicknincrete, Plastic, Steel) (cm/iii	From	То	Replacement Well	2001		25	72.3	25	26.6
6/4" SI	teel .18	8' +2	64'	☐ Test Hole ☐ Recharge Well	Recommended pump	rate	30	74.5	30	26.6
	li de la companya de	64		Dewatering Well	dot	•	40	78.7	40	26.6
6" 0	pen Hole	04	260	Observation and/or Monitoring Hole	Well production (I/min					
				Alteration (Construction)	Disinfected?	Γ	50	82.7	50	26.6
				Abandoned,	∑Yes □ No		60	86.6	60	26.6
	Construction Record -	Screen		Insufficient Supply Abandoned, Poor		Map of W				
Outside Diameter (DII	Material Slot N	o.	oth ( <i>m/ft</i> )	Water Quality Abandoned, other,	Please provide a map I	below following	instructi	ions on the b	ack.	
(cm/in) (Flast	tic, Galvanized, Steel)	<u>From</u>	To To	specify						
		<b>T</b>								
				Other, specify						
I	Water Details		1	Hole Diameter			. ^			
Water found at D	epth Kind of Water: Fre	sh 🔍 Vnteste	d De	pth (m/ft) Diameter	( £	)	KIN			
	Gas Other, specify	$\sim$	From	To (cm/in)	\( \sqrt{1}	,		7		
232	Depth Kind of Water: Fre	sh nteste	d	0' 64 9/4"	,	1	17	1/2	2	
	Gas Other, specify Depth Kind of Water: Fre	sh Unteste	-d	64 <b>260</b> 6"	300	1.8	4-1	/ "	3	
247 (m.C)	į.	7				at Co	M.	_ \	3	<b>~</b>
	Well Contractor and V	Vell Technici				108 HI PA	€, J€		18,3	
Business Name of			V	Vell Contractor's Licence No.	(	THE SHAPE	Married I.		15	<u> </u>
	Orilling Co. Ltd.		(A.	1119	Comments:					
6659 Fran	Ktown Road, RR#1		iv.	lunicipality Richmond	Comments.					
Province		ness E-mail Ac				***************************************		·		
ON	K0A 2Z0			patico.ca	Well owner's Date Pa	ckage Delivere			ry Use	Only
3us.Telephone No.	. (inc. area code) Name of W	ell Technician Inna, Jeren		, First Name)		015   16	106	Audit No.Z	200	2618
	cence No. Signature of Tech			ate Submitted 40 00	Date Wo	ork Completed				
T363	a Ken	UCN		ate <b>Sp@mitt</b> ed 10 30	No VIV	015 10 Y Y M M		Reddived*	172	015
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Ministry of the Environment and Climate Change

Tag#: A 229022 Print Below)

Well Record

Regulation 903	Ontario Water	Resources Ac
	Page	of

A229022 Page

Address of	Well Locati	on (Street Number/Na	ime)		Township Osgoode		Lot P/L	A	Concession	***************************************	
County/Dist	trict/Munici	pality a <b>rleton</b>	, Northing		City/Town/Village  Greely  Viunicipal Plan and Sublo	t Number	£ & L	Provi	nce ario	Postal	Code
NAD	8   3	18 454770	501	1553	4M-351				irt Block	6	
General C		Most Common Ma			ord (see instructions on the ner Materials		ral Description	<b>1</b>		Dept From	h ( <i>m∰)</i> To
			lay							0′	10′
Grey			iravel imestone	<b>a</b> +	Boulders					10′ 58′	58′ 151′
Grey			imescone Sandstone							35 151 ⁷	209′
Grey		5	andstone							2097	213′
Grey		<u> </u>	andstone		1111		A744.8.49.48.48498.89			213′	220′
						· ·	Results of W	ioll Vio	ld Torting	654450000000000000000000000000000000000	
	et at ( <i>m/</i> 60)	Type o	nular Space of Sealant Us	ed	Volume Placed	After test of well yield, v	water was:	D	raw Down  Water Level		ecovery
From 667	56 <b>′</b>	Neat cemen	rial and Type, È	<u> </u>	(m³/ <b>©</b> 10.9	Clear and sand fr	Not teste	(min,	) (m/ft)	(min)	(m/ft)
- <b>58</b> '	<del>  0</del>	Bentonite si	urry		15.8	If pumping discontinue	d, give reason		23'5" 30		32.5
						Pump intake set at (ma	M	1	33.1	2	28.9
						180		3	35.4	3	27.3
Met	-	onstruction Dismosd	☐ Public	Well Us		Pumping rate (Vmin KG 20	PMD	4	37	4	28.7
	Conventiona	il) 🗌 Jetting	Somestic  Livestock	☐ Municip	pal Dewatering	Duration of pumping for the hrs + 0 m	nin	5	38.3	5	26.4
☐ Boring	,	Digging	☐ Irrigation ☐ Industrial	_	& Air Conditioning	Final water level end o	f pumping (m/f	7) 10	41.5	10	25.2
Other, sp		t '	Other, spec	zify		If flowing give rate (1/mi	in / GPM)	15	43.1	15	24.2
Inside		onstruction Record ble OR Material Wa		Depth ( <i>m@</i> )	Status of Well  Water Supply	Recommended pump	depth (m/b)	20	44.2	20	23.5
Diameter (cm/m	Concrete		èD   Froi		Replacement Well	140 Recommended pump	roto	25	45.2 46.1	25	23.5 23.5
6/4"				2/ 56/	Recharge Well  Dewatering Well	(I/min / GRM)		30	47.8	30	23.5
_6"	Oper	n Hole		3′ 220′	Observation and/or Monitoring Hole	Well production (Vmin)	GPM)	40	49.4	50	23.5
					Alteration (Construction)	Dieinfected?		60	51.1	60	23.5%
0.0000000000000000000000000000000000000	C	onstruction Record	-Screen		Abandoned, Insufficient Supply	Yes No	Map of V				
Outside Diameter (cm/in)	1	Material	**************************************	Depth (m/ft) m To	☐ Abandoned, Poor Water Quality ☐ Abandoned, other, specify	Please provide a ma	p below follow	ving ins	tructions on t		
					Other, specify		#6	80	TO DY		
		105 c Ph 2 'S					WC	YE	2001 001/E		
209 _{(r}	nd at Depth m <b>∕()</b> ∐Ga	s Other, specify	-7 <u>`</u>	sted Dep	Hole Diameter oth (m/ft) Diameter To (cm/in)	12	1	J	2000 NEOWNE		
- Brands	nd at Depth <i>m∕</i> ∂ ⊟Ga		resh Mante	sted	0 / 66 / 9 3/4 5 86 / 220 6 "	KIN L	_		~	)50	(
Water four	nd at Depth m/ft) □ Ga		resh Unte	sted	7- 220 6	1 x -			7 \0	+	
9/15/2/95/19		Nell Contractor and	Well Techr			0 /2	0.14	M			
Business N Air R	Name of We Rock Drill	ell Contractor ing Co. Ltd.	:	W	/ell Contractor's Licence No.						
Bus <b>ings</b>	A #74 199 14 (1831	NAMES NEWS HOST		. ,	untelealinond	Comments: 1/2 HP - 10	GPM SET	@ 14	IO FT		**************************************
Province		Postal Code KUA 270 Bu	ısiness E-mai	Address rock@sym	patico.ca		ackage Delive	ered	Minis	try Use	Only
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136	32	ZNO. Signalure of Tec		) OSITIVACIONES	ate <b>Suphi</b> fted <b>O9 29</b>	11 '	Y Y M M		Received	<b>U</b>	3 2017

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# 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>).

Go Back to Map ()

#### Well ID

Well ID Number: 7310034 Well Audit Number: *Z262192* Well Tag Number: *A229069* 

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

#### **Well Location**

**Address of Well Location** 

1314 SOUTH BEACH BLVD

Township	OSGOODE TOWNSHIP
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 Numb	er
Other	

### Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
	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 To (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	Depth To
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

# **Results of Well Yield Testing**

#### After test of well yield, water was

If pumping discontinued, give reas	on
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)	Draw Down Water 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

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/well-records/resource/3031344e-e3f2-48d5-888c-c1deadfd2f77)

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

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Ontario

Measurements recorded in:

Ministry of the Environment, Conservation and Parks

[] Imperial

Well Tag No (Place Sticker and/or Print Below)

Tag#:A277265

Well Record

Regulation 903 Ontario Water Resources Act
Page ______ of _____

Address of Well Location (Street Number/Name)  Address of Well Location (Street Number/Name)  Onive Township  Township	Lot Concession \( \sqrt{A}
County/District/Municipality  City/Town/Village	Province Postal Code Ontario
UTM Coordinates Zone Easting Northing Nunicipal Plan and Sublot NAD   8   3	Number Other
Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on the General Colour   Most Common Material Other Materials	General Description Depth (m/ft)
	From To
1005ed Casing	<u>usove</u>
Grade in ac	Mince Off
raulation 90	3
-Xwell was	nitized X
Annular Space	Results of Well Yield Testing
Depth Set at (m/ft) Type of Sealant Used Volume Placed From To (Material and Type) (m³/ft³)	After test of well yield, water was:  Clear and sand free  Other, specify  Draw Down Recovery  Time Water Level Time Water Level  (min) (m/ft) (min) (m/ft)
	If pumping discontinued, give reason: Level Static
	Pump intake set at (m/ft)  1 2
Method of Construction Well Use	Pumping rate (I/min / GPM) 3
Cable Tool Diamond □ Public □ Commercial □ Not used □ Rotary (Conventional) □ Jetting □ Domestic □ Municipal □ Dewatering	Duration of pumping 4 4
☐ Rotary (Reverse) ☐ Driving ☐ Livestock ☐ Test/Hole ☐ Monitoring ☐ Boring ☐ Digging ☐ Irrigation ☐ Cooling & Air Condition is	hrs + min Final water level end of pumping (m/ft) 10  10
Air percussion   Industrial   Other, specify	If flowing give rate (I/min / GPM) 15 15
Construction Record - Casing  Inside Open Hole OR Material Wall Depth (m/ft) Water Supply Diameter (Galvanized, Fibreglass, Thickness Replacement Well	Recommended pump depth (m/ft) 20 20
(cm/in) Concrete, Plastic, Steel) (cm/in) From To Test Hole	Recommended pump rate (I/min / GPM) 25 30
Dewatering Well    Dewatering Well     Monitoring Hole	Well production (I/min / GPM)  40  40
	50   50   Disinfected?   60   60   60
☐ Abandoned, Insufficient Supply Construction Record - Screen ☐ Abandoned, Insufficient Supply ☐ Abandoned, Poor	Map of Well Location
Outside Diameter (cm/in) Material (Plastic, Galvanized, Steel) Slot No. To Specify Water Quality  Trom To Water Quality    Material   Water Quality   Water Quality   Water Quality   Water Quality   Water Quality   Water Quality   Slot No. Trom   To   Specify	Please provide a map below following instructions on the back.
Other, specify	tlouse
Water Details / Hole Diameter	
Water found at Depth Kind of Water: Fresh Untested Depth (m/ft) Diameter  (m/ft) Gas Other, specify From To (cm/in)	to C43tt
Water found at Depth Kind of Water: Fresh Untested  (m/ft) Gas Other, specify	48EH 10Cation 1 2 1
Water found at Depth Kind of Water: Fresh Untested (m/ft) Gas Other, specify	
Well Contractor and Well Technician Information  Business Name of Well Contractor  Well-Contractor Well-Contractor Well-Contractor's Licence No.	Johnston Drive
Business Address (Street Number/Name)  Business Address (Street Number/Name)	Comments:
Province Postal Code Business E-mail Address  Of Code  Province Co	Mollowania Data Data Data Data da Data
Bus. Telephone No. (inc. area code) Name of Well Technician (Last Name, First Name)	Well owner's   Date Package Delivered   Ministry Use Only
Well Technician's Licence No. Signature of Technician and or Contractor Date Submitted	Yes Date Work Completed SEP 0 6 2019
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## Map: Well records

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Go Back to Map ()

#### Well ID

Well ID Number: 7372157 Well Audit Number: *Z344080* Well Tag Number: *A305154* 

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

#### **Well Location**

**Address of Well Location** 

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 Numb	er		
Other			

### Overburden and Bedrock Materials Interval

General	<b>Most Common</b>	Other	General	Depth	Depth
Colour	Material	Materials	Description	From	То

### **Annular Space/Abandonment Sealing Record**

Depth Depth Type of Sealant Used Volume From To (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	То

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

## **Water Details**

Water Found at Depth	Kind

## **Hole Diameter**

Depth From	=	Diameter

**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)

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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 Page 1 of 13

Report Number: 1971215

Date Submitted: 2022-02-04

Date Reported: 2022-02-10

Project: PH4407

COC #: 885852

#### **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:

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

APPROVAL:

Addrine Thomas, Inorganics Supervisor

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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.



## **Environment Testing**

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154 Colonnade Rd. South

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Attention: Mr. Kirby Magee-Dittburner

PO#: 33729

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Date Reported: 2022-02-10

Project: PH4407

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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	1	mg/L	AO 250	97	96
	F	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
	pН	1.00	-	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
	Са	1	mg/L		101	101
	Cd	0.0001	mg/L	MAC 0.005	<0.0001	<0.0001

#### Guideline = ODWSOG

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^{* =} Guideline Exceedence



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PO#: 33729

Invoice to: Paterson Group

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
Metals	Co	0.0002	mg/L	Guidelille	<0.0002	<0.0002
IVICIAIS	Cr	0.0002	mg/L	MAC 0.05	<0.0002	<0.002
	Cu	0.001	mg/L	AO 1	0.008	0.003
	Fe	0.001	mg/L	AO 0.3	0.58*	0.46*
	Hg	0.0001	mg/L	MAC 0.001	<0.0001	<0.0001
	K	1	mg/L	WAC 0.001	2	2
	Mg	1	mg/L		32	31
	Mn	0.01	mg/L	AO 0.05	0.03	0.03
	Mo	0.005	mg/L	7.0 0.00	<0.005	<0.005
	Na 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

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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

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
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

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**Environment Testing** 

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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

Group	Analyta	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
Volatiles	Analyte  Dibromochloromethane	0.3		Guideline	<0.3	<0.3
voiatiles	Dichlorodifluoromethane		ug/L		<0.5	<0.5
		0.5	ug/L	MAO 50	<4.0	<4.0
	Dichloromethane	4.0	ug/L	MAC 50		-
	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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## **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

#### **QC Summary**

An	alyte	Blank		QC % Rec	QC Limits
Run No 416630 Method AMBCOLM1	Analysis/Extraction Date 20	)22-02-05 <b>A</b>	Analyst	DRA	
Escherichia Coli					
Total Coliforms					
Run No 416636 Method C SM2130B	Analysis/Extraction Date 20	022-02-04 <b>A</b>	Analyst	AaN	
Turbidity		<0.1 NTU		99	70-130
Run No 416668 Method C SM2120C	Analysis/Extraction Date 20	)22-02-07 <b>A</b>	Analyst	AsA	
Colour (Apparent)		<2 TCU		109	90-110
Run No 416675 Method EPA 350.1	Analysis/Extraction Date 20	)22-02-07 <b>A</b>	Analyst	SKH	
N-NH3		<0.010 mg/L		104	80-120
Run No 416691 Method EPA 351.2	Analysis/Extraction Date 20	022-02-07 <b>A</b>	Analyst	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 <b>A</b>	Analyst	AsA	
S2-		<0.01 mg/L		92	80-120

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Attention: Mr. Kirby Magee-Dittburner

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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
Run No 416703 Analysis/Extraction Date 20 Method M SM3120B-3500C	22-02-07 <b>A</b> na	ılyst ZS	
Calcium	<1 mg/L	99	90-110
Potassium	<1 mg/L	90	87-113
Magnesium	<1 mg/L	76-124	
Sodium	<1 mg/L	97	82-118
Run No 416719 Analysis/Extraction Date 20 Method SM 4110	122-02-08 <b>A</b> na	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 <b>A</b> na	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
рН		99	90-110

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#### **QC Summary**

Analyte	Blank	QC % Rec	QC Limits	
Run No 416780 Analysis/Extraction Date 20 Method EPA 8260	22-02-08 <b>A</b> na	ılyst 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	0.5 ug/L 88		
Bromodichloromethane	<0.3 ug/L	92	60-130	

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#### **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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#### **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	)22-02-08 <b>A</b> na	alyst YH				
Xylene Mixture						
Run No 416791 Analysis/Extraction Date 20 Method SM5530D/EPA420.2	022-02-08 <b>A</b> na	alyst IP				
Phenols	<0.001 mg/L	57	50-120			
Run No 416797 Analysis/Extraction Date 20 Method C SM2340B	022-02-08 <b>A</b> na	alyst AET				
Hardness as CaCO3						
Ion Balance						

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#### **QC Summary**

Analyte	Blank		QC % Rec	QC Limits
TDS (COND - CALC)				
Run No 416800 Analysis/Extractio Method SM 5310B	n Date 2022-02-08	Ana	lyst AsA	
DOC	<0.5 mg/L		92	80-120
Run No 416836 Analysis/Extractio Method EPA 200.8	n Date 2022-02-08	Ana	lyst 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

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#### **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	)22-02-07 <b>A</b> na	ilyst AET	
Tannin & Lignin	<0.10 mg/L	108	
Run No 416883 Analysis/Extraction Date 20 Method EPA 200.8	022-02-09 <b>A</b> na	ilyst SD	
Mercury	<0.0001 mg/L	119	80-120

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#### 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.

154 Colonnade Road South, Ottawa, Ontario K2E 7J5

**SOIL PROFILE AND TEST DATA** 

▲ Undisturbed

△ Remoulded

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

**DATUM** Geodetic FILE NO. **PG6052 REMARKS** HOLE NO. TP 1-21 **BORINGS BY** Backhoe DATE December 17, 2021 **SAMPLE** Pen. Resist. Blows/0.3m Piezometer Construction STRATA PLOT **DEPTH** ELEV. **SOIL DESCRIPTION**  50 mm Dia. Cone (m) (m) N VALUE or RQD RECOVERY NUMBER Water Content % **GROUND SURFACE** 80 0+100.05Asphaltic concrete 0.20 FILL: Brown silty sand with gravel G 1 and crushed stone 0.60  $\nabla$ Compact, brown SILTY SAND 1+99.05G 2 1.35 Very stiff to stiff, grey SILTY CLAY 3 - silt content increasing with depth 2+98.052.50 Stiff, grey **CLAYEY SILT** 3 + 97.054 End of Test Pit (Groundwater infiltration at 1.0m depth) 40 60 100 Shear Strength (kPa)

**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						itarra, O.	itai io		FII E NO		
									FILE NO	PG6052	
REMARKS									HOLE N	o. <b>TP 2-21</b>	
BORINGS BY Backhoe					ATE	Decembe 	er 17, 202				
SOIL DESCRIPTION	PLOT			IPLE H		DEPTH (m)	ELEV. (m)			lows/0.3m a. Cone	Piezometer Construction
	STRATA	TYPE	NUMBER	% RECOVERY	N VALUE or RQD			0 W	lator Co	ntent %	zom
GROUND SURFACE	STE	£	N	RECO	N O K			20		60 80	i <u>#</u> 8
anesis sem ner						0-	100.06				
FILL: Crushed stone with sand											
0.47											₽
FILL: Brown silty sand with gravel		∏ G	1								
Very stiff to stiff, grey <b>SILTY CLAY</b>		∑ G	2								
End of Test Pit	122										
(Groundwater infiltration at 0.4m depth)											
								20 Shea ▲ Undist	ır Strenç	60 80 1/gth (kPa)	000

154 Colonnade Road South, Ottawa, Ontario K2E 7J5

**SOIL PROFILE AND TEST DATA** 

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

<b>DATUM</b> Geodetic									FILE N	o. PG	6052	
REMARKS									HOLE	NO	3-21	
BORINGS BY Backhoe					ATE	Decembe	er 17, 202		<u></u>			
SOIL DESCRIPTION				MPLE	ы	DEPTH (m)	ELEV. (m)			Blows/0. Dia. Cond		Piezometer Construction
	STRATA	TYPE	NUMBER	RECOVERY	N VALUE or RQD			0 <b>V</b>		Piezon Constr		
GROUND SURFACE	XXX			<b>K</b>	4	0-	100.26	20	40	60 8	30	
FILL: Crushed stone with sand												
FILL: Brown silty sand with gravel, 0.6 trace organics	2 4 	∑ G	1									
Compact, brown <b>SILTY SAND</b>		∑ G	2			1.	-99.26					Δ
							-99.26					
Very stiff to stiff, grey SILTY CLAY												
- silt content increasing with depth												
2.2'		G	3			2-	98.26					
2.2												
Stiff, grey <b>CLAYEY SILT</b>												
<u>3</u> .0	0	∑ G	4			3-	-97.26		<b></b>			
End of Test Pit							07.20					
(Groundwater infiltration at 0.9m depth)												
								20 Shea ▲ Undist		60 € ngth (kPa △ Remou	a)	<b>00</b>

Geotechnical Investigation

154 Colonnade Road South, Ottawa, Ontario K2E 7J5

Proposed Build

Proposed Building Addition - 1353 Coker Street
Ottawa, Ontario

**SOIL PROFILE AND TEST DATA** 

DATUM	Geodetic		FILE NO. <b>PG6052</b>
REMARKS			
BORINGS BY	Backhoe DA	TE December 17, 2021	HOLE NO. TP 4-21

BORINGS BY Backhoe				D	ATE	Decembe	r 17, 202	21			H	OLE	E NO	). T	P	4-2 ⁻	1	
SOIL DESCRIPTION	PLOT		SAN	IPLE		DEPTH (m)	ELEV. (m)		Per	n. R			Blo Dia					ter
	STRATA	TYPE	NUMBER	% RECOVERY	N VALUE or RQD	(111)	(III)						Con					Piezometer
GROUND SURFACE				24	4	0-	-100.14	ļ	2	0	4	0	6	0 	8	0		
FILL: Crushed stone with sand																		
FILL: Brown silty sand with gravel		∑ G	1															Ż
O.82 Compact, brown <b>SILTY SAND</b>		G	2			1-	-99.14											
Very stiff, grey SILTY CLAY		X G	3						:			:						<b>.</b>
End of Test Pit	YVAZ								<u> </u>									
(Groundwater infiltration at 0.6m depth)																		
									S	0 Shea ndist	40 ar S	tre	6 engt	th (	kΡέ	8 <b>0</b> a) ilded	10	0

#### **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	nsistency Undrained Shear Strength (kPa)	
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% - Natural moisture content or water content of sample, %

Liquid Limit, % (water content above which soil behaves as a liquid)
 PL - Plastic limit, % (water content above which soil behaves plastically)

PI - Plasticity index, % (difference between LL and PL)

Dxx - Grain size 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 > 4 Well-graded sands have: 1 < Cc < 3 and Cu > 6

Sands 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)
Cc - Compression index (in effect at pressures above p'c)

OC Ratio Overconsolidaton ratio =  $p'_c/p'_o$ 

Void Ratio Initial sample void ratio = volume of voids / volume of solids

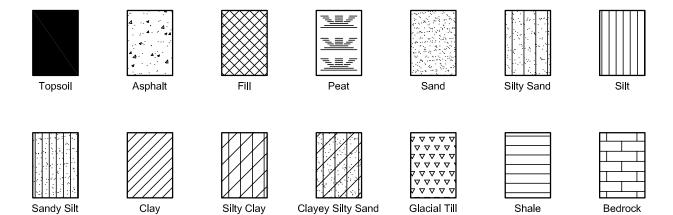
Wo - Initial water content (at start of consolidation test)

#### PERMEABILITY TEST

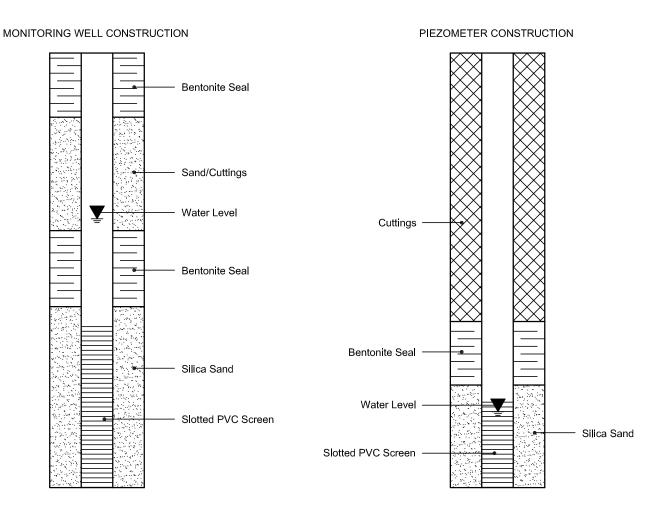
Coefficient of permeability or hydraulic conductivity is a measure of the ability of water to flow through the sample. The value of k is measured at a specified unit weight for (remoulded) cohesionless soil samples, because its value will vary with the unit weight or density of the sample during the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

### SYMBOLS AND TERMS (continued)

#### STRATA PLOT

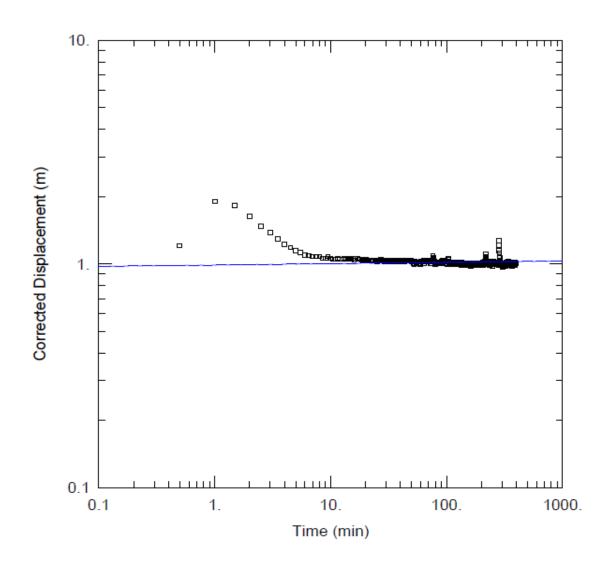


#### MONITORING WELL AND PIEZOMETER CONSTRUCTION



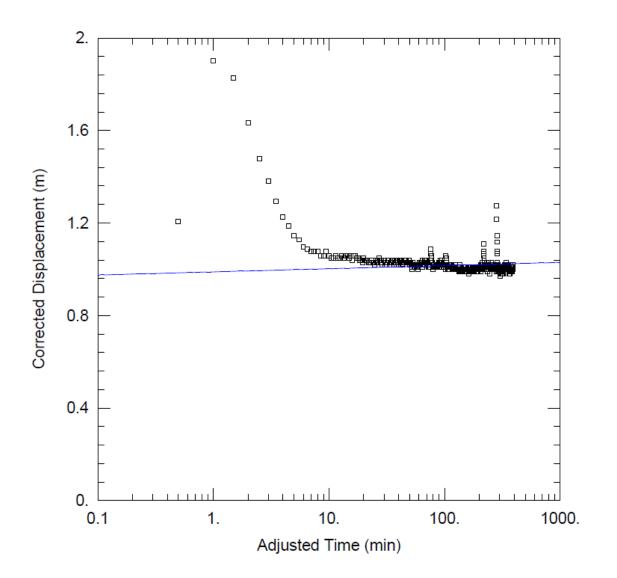
### **Pumping Test Analysis Report**

File No.	PH4407	Well ID:	TW1
Date:	February 22, 2022	Solution Method:	Theis
Client:	Dymech Engineering Inc.	Transmissitivity (m2/day):	367.2
Site Address:	1353 Coker Street, Ottawa, ON	Discharge Rate (L/min)	19
Project:	Site Plan Application	Analysis performed by:	EA



### **Pumping Test Analysis Report**

File No.	PH4407	Well ID:	TW1
Date:	February 22, 2022	Solution Method:	Cooper-Jacob
Client:	Dymech Engineering Inc.	Transmissitivity (m2/day):	367.2
Site Address:	1353 Coker Street, Ottawa, ON	Discharge Rate (L/min)	19
Project:	Site Plan Application	Analysis performed by:	EA



### **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

volume was calculted by Paterson Group as a preliminary design flow.

PREDICTIVE NITRATE IMPACT ASSESSEMENT				
Infiltration Factors				
Topography		0.30		
Soil		0.30		
Cover		0.10		
Total		0.70		
Site Characteristics				
Area of Site :		2675	$m^2$	
Total of roof areas:		729	$m^2$	
Total area of paved driveway areas:		1327	$m^2$	
Roof + paved driveway areas		2056	$m^2$	
Impervious Area		2056	$m^2$	
Percent Impervious Area =		77	%	
Infiltration Area =		619	$m^2$	
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	m³/day	
Mass Balance Model (MOEE, 1995) $C_T = (Q_bC_b + Q_eC_e + Q_iC_i)/(Q_b + Q_e + Q_i) = 0$	Cumulative 1	Nitrate Concentrat	iion	
Q _b = flow entering the system across the upgradient area		0	m ³ /day	
C _b = background nitrate concentration		0	mg/L	
Q _e = flow entering the system from the septic drainfield		3.6	m ³ /day	
C _e = concentration of nitrates in the septic effluent		4	mg/L	
Q _i = flow entering the system from infiltration		0	m ³ /day	
C _i = Concentration of nitrates in the infiltrate		0	mg/L	
	C _T =	3.56	mg/L	
Estimate Number of Lots		1	lots	

# patersongroup

# 1353 Coker Street, Ottawa PH4407

TW1	inputs		
рН	8.07	A	0.17
TDS	546	В	2.40
Hardness	380	С	2.18
Alkalinity	244	D	2.39
Temp.	9.3		
		pHs =	7.30321912

Langel	Langelier Saturation Index (LSI) Calculation (Langelier, 1936)						
	LSI = pH - pHs	A = (Log10 [TDS] - 1) /	10				
	pHs = (9.3 + A + B) - (C + D)	B = -13.12 x Log10 (oC	+ 273) + 34.55				
	Where:	C = Log10 [Ca2+ as Ca0	CO3] - 0.4				
		D = Log10 [alkalinity as	s 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 (scale	forming but non-corrosive)				
0 to 0.5	Water is super saturated and tends to precipitate a scale layer of calcium carbonate (slightly scale forming and corrosive).						
0	Water is saturated (in equilibrium) with calcium carbonate. A scale layer of calcium carbonate is neither precipitated nor dissolved.						
0 to -0.5	Water is under saturated and tends to dissolve solid calcium carbonate (slightly corrosivebut non-scale forming).						
-0.5 to -2	Water is under saturated and tends to dissolve solid calcium carbonate (seriously corrosive).						



## 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.

Table 1 - Period A Results for the WaterNOx-LS

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%

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.

Table 2 – Period B Results for the WaterNOx-LS

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}	1	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:

## ARCHITECTURAL

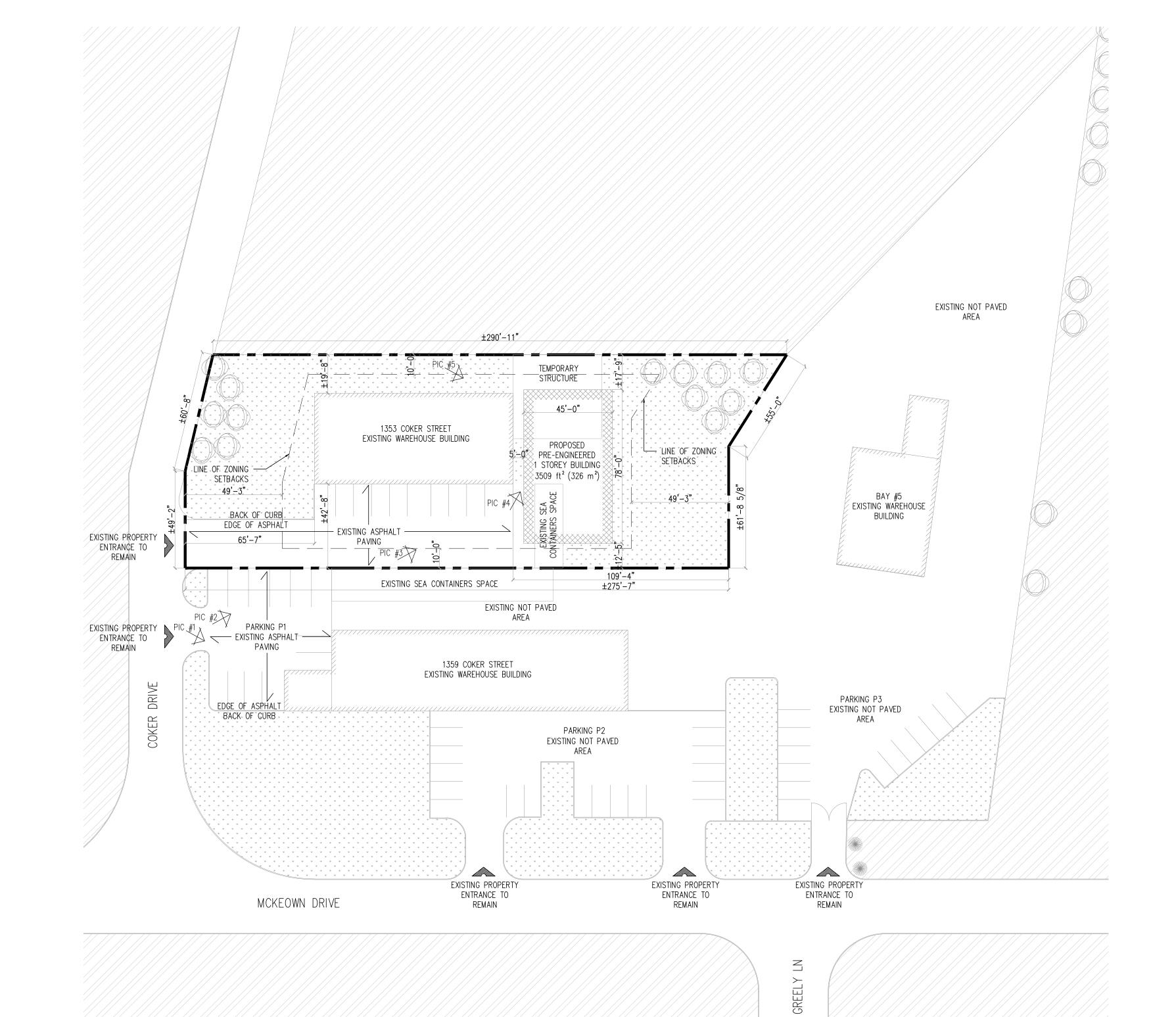
A000 – COVER PAGE A002 – DRAWING LIST, LEGEND + NEW SITE PLAN + ZONING COMPLIANCE + O.B.C MATRIX

A050 - EXCAVATION PLAN + NOTES A100 - NEW FLOOR PLAN + NOTES A200 - EXTERIOR ELEVATIONS + NOTES

# LEGEND:

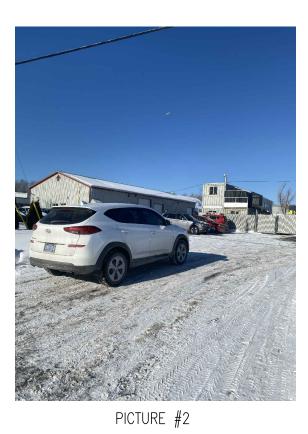
NOT INCLUDED IN CONTRACT (N.I.C.)

EXISTING GRASS



1 NEW SITE PLAN
1/32" - 1'-0"



















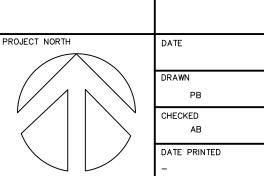
LOCATION PLAN: GROUND FLOOR



CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND REPORT ANY OMISSIONS OR DISCREPANCIES TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.

DO NOT SCALE DRAWN

REVISIONS		
NO.	DESCRIPTION	DATE
1	Issued for Class D estimate	Feb 22,202



NOT TO BE USED FOR CONSTRUCTION PURPOSES UNTIL SIGNED BY THE ARCHITECT

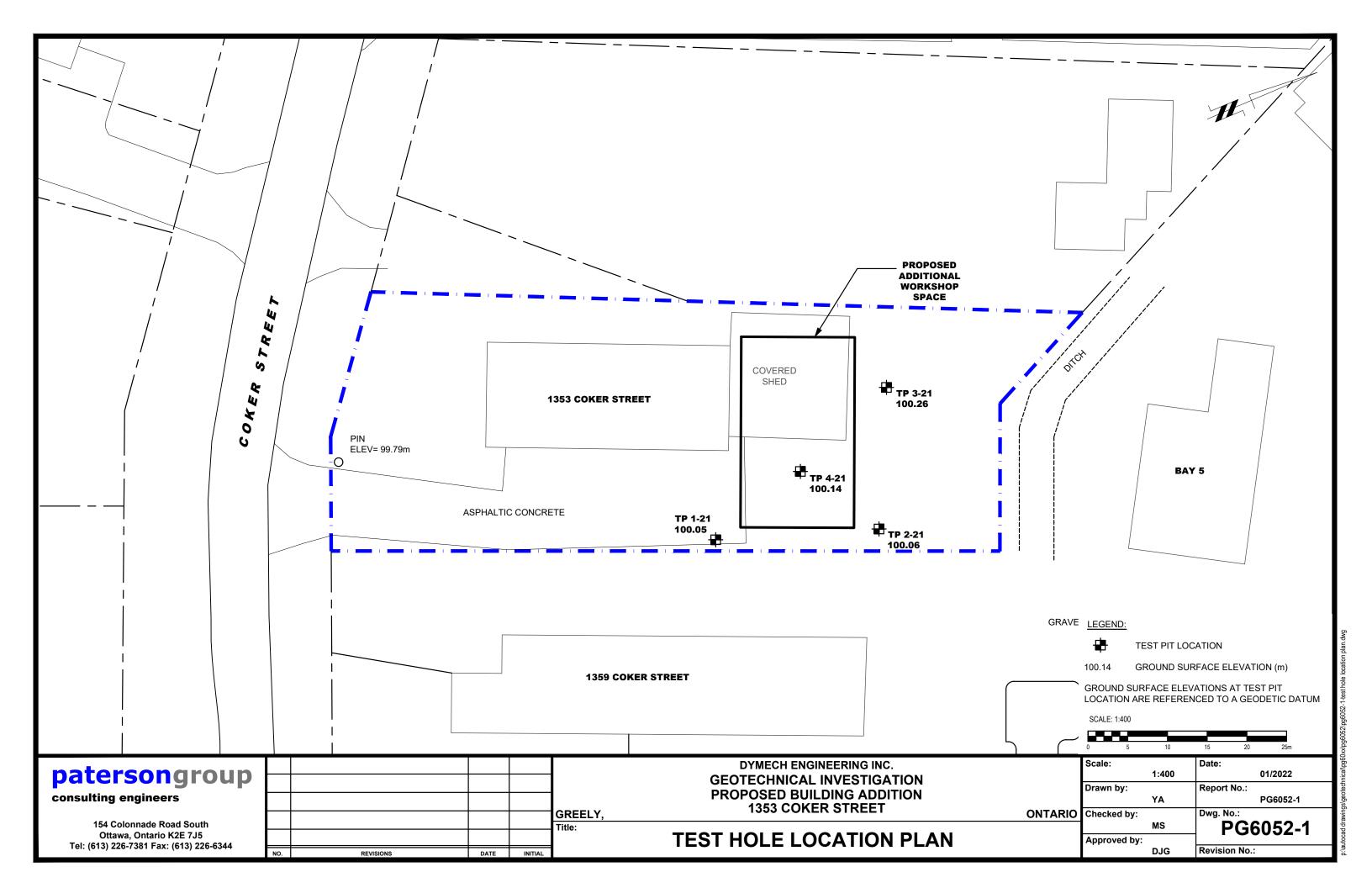
DYMECH WAREHOUSE ADDITION

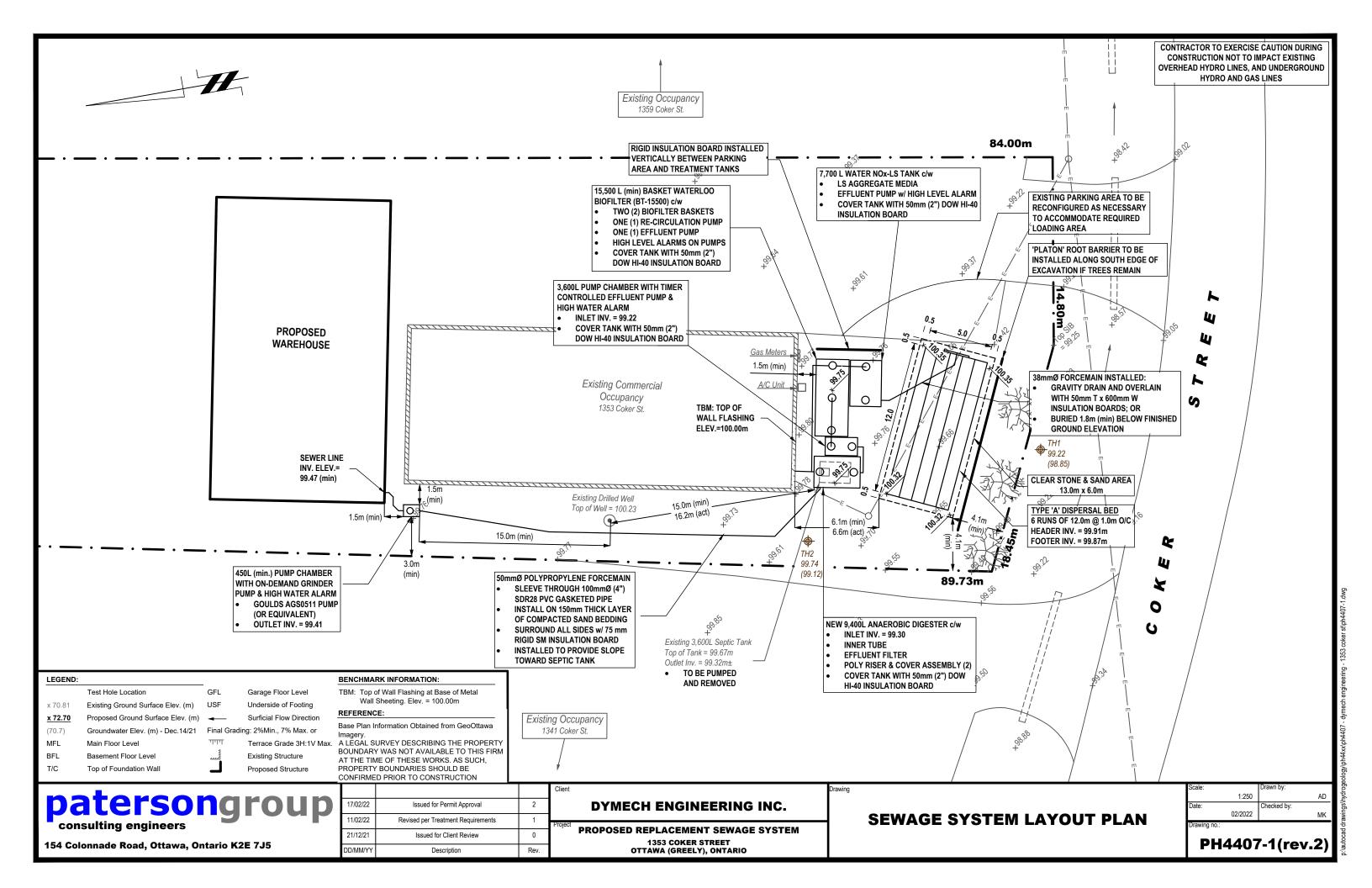
ADDRESS: 1359 COKER STREET,
DRAWING TITLE

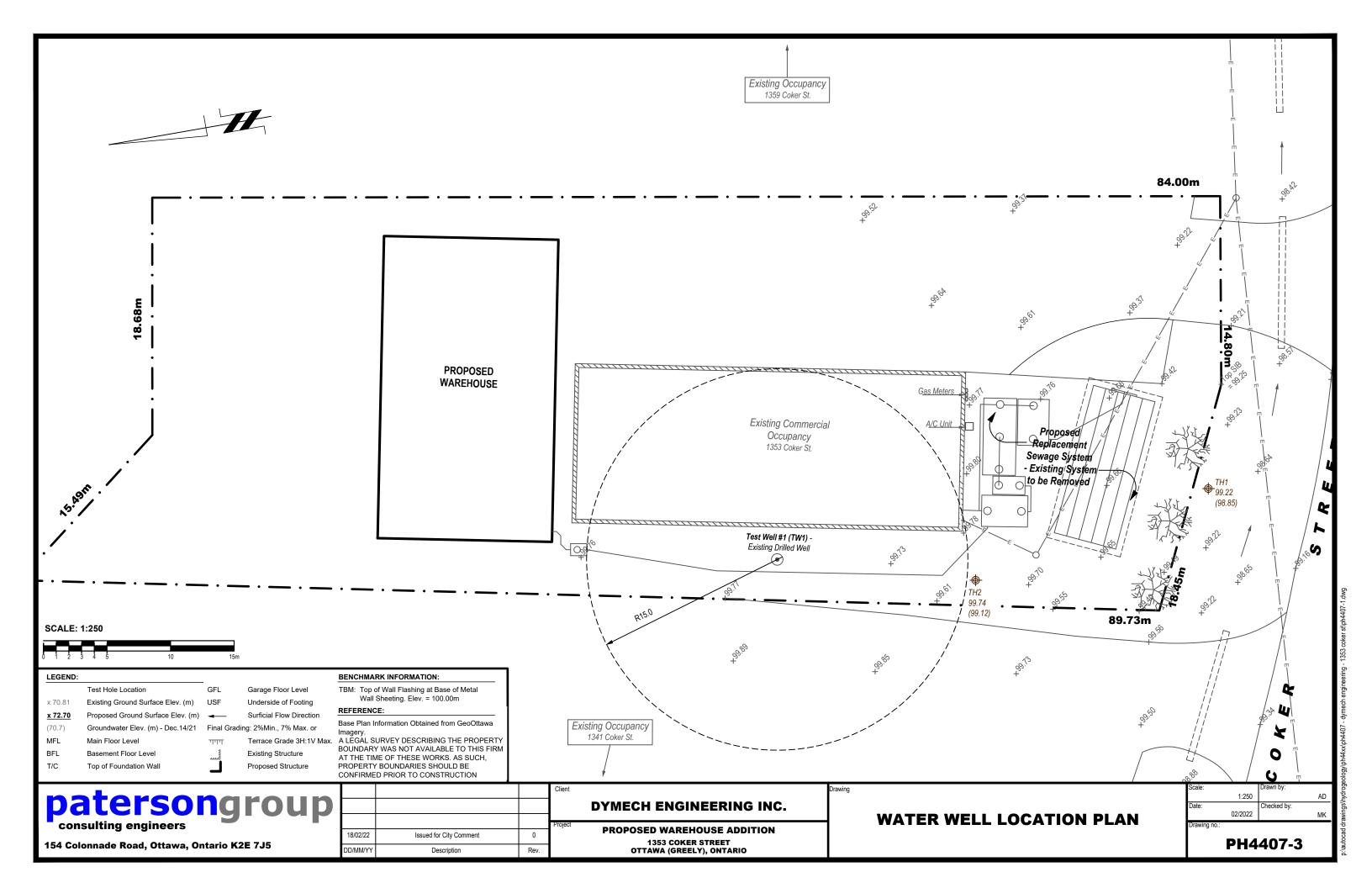
NEW SITE PLAN + NOTES

SCALE
AS SHOWN
PROJECT NO:
059-20

A-002







STREET/CIVIC INITIAL	
**EMAIL ONLY*	

tawa Septic Bureau des systèmes System Office septiques d'Óttawa

### SEPTIC FILE # 22-059

3889 Rideau Valley Drive Box 599 Manotick, ON K4M 1A5

OTTAWA
Phone: 613-692-3571 PRESS "4" for septic office 1-800-267-3504 Fax: 613-692-1507 Email: septic@rvca.ca

SITE ADDRESS: 1353 Colker St

Township OS HUN-GLO-FIT-CUM-NEP-GOU-RID-KAN-TOR

CONTACT: 1. Ke Pater so n INFORMATION FOR OWNER/APPLICANT

Attached is your Sewage System Permit. A minimum of two inspections are required before your proposed sewage

system can be approved for use (additional inspections may be required for clay soils/bedrock and/or reinspections). 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.

#### Special Note

- A permit is valid for 12 months from the original date of issuance noted in "permit date". If lapsed, it 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

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.

2. 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

3. 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:

a) The leaching bed and septic tank must be covered with sand fill and topsoil and graded accordingly

b) All conditions of the Sewage System Permit & comments on the installation inspection report must be met

c) The depth of cover & material type must be identified by inspection pipes or holes placed over trenches at 4

d) The 4 corners of the bed must be staked

**JULY 2020** 

Location: 2:Administration templates\CoverPart8page

Application for a Permit to Construct or Demolish
This form is authorized under subsection 8(1.1) of the Building Code Act, 1992

		For use by	Principa	Authority		IC EII					
Application number:	REFER TO:		Permit r	number (if differe	ent): 2	2-050					
Date received:			Permit number (if different):  Roll number:  OTTAWA								
Application submitted to: _				SYSTEM ard of health or co							
A. Project information	1					<b>第四个元素的是不是的形式</b>					
Building number, street nar		the state of the state of			Unit number	Lot/con.					
1353 Coker St.											
Municipality		Postal code		Plan number/o	ther description	scription					
Ottawa (Osgoode)		K4P 1A1			and decempation	9					
Project value est. \$				Area of work (r	m²)						
od .					,	= =					
B. Purpose of applica	tion										
New construction	Addition existing		Altera	ntion/repair	Demolition	Conditional Permit					
Proposed use of building	- Januari 19		rent use of	building		—— i citiiit					
Commercial											
Description of proposed wo	ork				1100 ac 1000						
Construction of new building						onal warehouse					
C. Applicant	Applicant is:	Owner or		Authorized ago							
Last name		First name		Corporation or							
Dillon		Adam		Paterson G							
Street address 154 Colonnade Rd.	S				Unit number	Lot/con.					
Municipality		Postal code		Province	E-mail						
Ottawa (Nepean)		K2E 7J5		ON		atersongroup.ca					
Telephone number		Fax			Cell number						
(613) 226-7381		( )			( )						
D. Owner (if different	from applicant)										
Last name		First name		Corporation or							
				Dymech	Engineering In-	C.					
Street address					Unit number	Lot/con.					
1359 Coker St.											
Municipality		Postal code		Province	E-mail						
Ottawa (Osgoode)		K4P 1A1		ON		nmain@dymech.ca					
Telephone number		Fax			Cell number						
⁽ 613 ⁾ 327-4867		( )			( )	)					

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	-				Name	100	2.40
		ALC: U		1		-	75

	RVCA RECEIV	FD		
E. Builder (optional)				22-159
Last name	First namer 0 4 202	2 Corporation or pa	rtnership (if applicab	,
Street address	REFER TO:	and the second s	Unit number	Lot/con.
Municipality	Postal code	Province	E-mail	
Telephone number ( )	Fax ( )		Cell number	vi .
F. Tarion Warranty Corporation (O	ntario New Home Warran	ty Program)		
<ul> <li>i. Is proposed construction for a new Plan Act? If no, go to section G.</li> </ul>	w home as defined in the Onta	ario New Home War	ranties Yes	No 🗸
ii. Is registration required under the	Ontario New Home Warrantie	s Plan Act?	Yes	No 🗸
iii. If yes to (ii) provide registration no	umber(s):			;
G. Required Schedules				
i) Attach Schedule 1 for each individual w     ii) Attach Schedule 2 where application is t				
H. Completeness and compliance	with annlicable law		estimate yes the w	
<ul> <li>This application meets all the requirement Building Code (the application is made applicable fields have been completed schedules are submitted).</li> <li>Payment has been made of all fees that regulation made under clause 7(1)(c) or</li> </ul>	in the correct form and by the on the application and require t are required, under the appl	owner or authorized d schedules, and all icable by-law, resolu	d agent, all required	No No
application is made.  ii) This application is accompanied by the resolution or regulation made under cla			able by-law, Yes	No No
iii) This application is accompanied by the law, resolution or regulation made under the chief building official to determine we contravene any applicable law.	information and documents per clause 7(1)(b) of the <i>Buildin</i>	rescribed by the app	olicable by- hich enable	
iv) The proposed building, construction or	demolition will not contravene	any applicable law.	Yes	No No
I. Declaration of applicant				
, Adam Dillon - Paterson	Group Inc.			declare that:
(print name)				
The information contained in this documentation is true to the best     If the owner is a corporation or pa	of my knowledge.			nd other attached
Date 2/17/22	Signature o	f applicant	John	

Personal information contained in this form and schedules is collected under the authority of subsection 8(1.1) of the *Building Code Act, 1992*, and will be used in the administration and enforcement of the *Building Code Act, 1992*. Questions about the collection of personal information may be addressed to: a) the Chief Building Official of the municipality or upper-tier municipality to which this application is being made, or, b) the inspector having the powers and duties of a chief building official in relation to sewage systems or plumbing for an upper-tier municipality, board of health or conservation authority to whom this application is made, or, c) Director, Building and Development Branch, Ministry of Municipal Affairs and Housing 777 Bay St., 2nd Floor. Toronto, M5G 2E5 (416) 585-6666.

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

RVCA RECEIVED

MAR 0 4 2022 Schedule 1: Designer Information

Use one form for each individual who revie	ws and takes re	sponsibility for design ac	livities with respect to	the project.				
A Project Information			SEPTIC FILE					
Building number, street name 1353 Cok	er St.	STATES ALLEY	Unit no.	Lot/con.				
Municipality Ottawa (Osgoode)	Postal code K4P 1A1	Plan number/ other des		22-059				
B. Individual who reviews and takes	s responsibil	ity for design activitie	s	OTTAWA				
Name Adam Dillon		Firm Paterson Gr	oup Inc.					
Street address 154 Colonnade Rd.	S.		Unit no.	Lot/con.				
Municipality Ottawa (Nepean)	Postal code K2E 7J5	Province ON	E-mail adillon(	illon@patersongroup.ca				
Telephone number (613) 226-7381	Fax number							
C. Design activities undertaken by Division C]	individual ide	entified in Section B.	Building Code Ta	ble 3.5.2.1. of				
House	HVAC	- House	Building S	Structural				
Small Buildings		g Services	Plumbing	- House				
Large Buildings		on, Lighting and Power		<ul> <li>All Buildings</li> </ul>				
Complex Buildings Description of designer's work	Fire Pr	otection	X On-site Se	ewage Systems				
New sew	age system	- Waterloo Biofilter	with WaterNOx	-I S System and				
	Dispersal Be		······································	Lo oyotom and				
1,00 / 1	Diopordal De	, a						
		*	0 =					
D. Declaration of Designer								
D. Declaration of Designer  Adam Dillon - Paterson Group Inc.			declare that (choos	e one as appropriate):				
	e)		_ declare that (choos	e one as appropriate):				
Adam Dillon - Paterson Group Inc. (print nam	,							
Adam Dillon - Paterson Group Inc.  (print nam  I review and take responsibilit	y for the design	work on behalf of a firm i	registered under subs	ection 3.2.4.of Division				
Adam Dillon - Paterson Group Inc.  (print nam  I review and take responsibilit C, of the Building Code. I am	y for the design	work on behalf of a firm in the firm is registered, in the	registered under subs	ection 3.2.4.of Division				
Adam Dillon - Paterson Group Inc.  (print nam  I review and take responsibilit	y for the design	work on behalf of a firm in the firm is registered, in the	registered under subs	ection 3.2.4.of Division				
Adam Dillon - Paterson Group Inc.  (print nam  I review and take responsibilit C, of the Building Code. I am	y for the design	work on behalf of a firm in the firm is registered, in the	registered under subs	ection 3.2.4.of Division				
Adam Dillon - Paterson Group Inc.  (print nam  I review and take responsibilit C, of the Building Code. I am  Individual BCIN: 19879	y for the design	work on behalf of a firm in the second control of the second contr	registered under subs	ection 3.2.4.of Division				
Adam Dillon - Paterson Group Inc.  (print nam  I review and take responsibilit C, of the Building Code. I am	y for the design qualified, and th	ne firm is registered, in the	registered under subse e appropriate classes/	ection 3.2.4.of Division categories.				
Adam Dillon - Paterson Group Inc.  (print nam  I review and take responsibilit C, of the Building Code. I am	y for the design qualified, and th y for the design ision C, of the E	ne firm is registered, in the	registered under subse e appropriate classes/	ection 3.2.4.of Division categories.				
Adam Dillon - Paterson Group Inc.  (print nam  I review and take responsibilit C, of the Building Code. I am	y for the design qualified, and the y for the design ision C, of the E	and am qualified in the a	registered under subse e appropriate classes/ ppropriate category as	ection 3.2.4.of Division categories. s an "other designer"				
Adam Dillon - Paterson Group Inc.  (print nam  I review and take responsibilit C, of the Building Code. I am	y for the design qualified, and the y for the design ision C, of the E registration:	and am qualified in the a suilding Code.	registered under subse e appropriate classes/ ppropriate category as	ection 3.2.4.of Division categories. s an "other designer"				
Adam Dillon - Paterson Group Inc.  (print nam  I review and take responsibilit C, of the Building Code. I am	y for the design qualified, and the y for the design ision C, of the E registration:	and am qualified in the a suilding Code.	registered under subse e appropriate classes/ ppropriate category as	ection 3.2.4.of Division categories. s an "other designer"				
Adam Dillon - Paterson Group Inc.  (print nam  I review and take responsibilit C, of the Building Code. I am	y for the design qualified, and the y for the design ision C, of the E registration:	and am qualified in the a suilding Code.  on and qualification requid qualification:	registered under subset appropriate classes/	ection 3.2.4.of Division categories. s an "other designer"				
Adam Dillon - Paterson Group Inc.  (print nam  I review and take responsibilit C, of the Building Code. I am	y for the design qualified, and the design is ion C, of the E registration: om the registration and schedule is true	and am qualified in the abuilding Code.  on and qualification requid qualification:  to the best of my knowled	registered under substance appropriate classes/ ppropriate category as rements of the Buildin	ection 3.2.4.of Division categories. s an "other designer"				

#### NOTE:

- 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

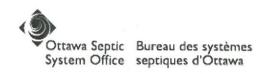
Schedule 2FSewage System Installer Information **Project Information** Building number, street name 1353 Coker St. MAR 0 4 2022 Unit number Municipality Ottawa (Osgoode) Postal code K4P 1A1 Plan number/ other description Sewage system installer Is the installer of the sewage system engaged in the business of constructing on-site, installing, repairing, servicing, cleaning or emptying sewage systems, in accordance with Building Code Article 3.3.1.1, Division C? Yes (Continue to Section C) No (Continue to Section E) Installer unknown at time of application (Continue to Section E) Registered installer information (where answer to B is "Yes") Name BCIN Street address Unit number Lot/con. Municipality Postal code Province E-mail Telephone number Fax Cell number Qualified supervisor information (where answer to section B is "Yes") Name of qualified supervisor(s) **Building Code Identification Number (BCIN) Declaration of Applicant:** Adam Dillon - Paterson Group Inc. declare that: I am the applicant for the permit to construct the sewage system. If the installer is unknown at time of application, I shall submit a new Schedule 2 prior to construction when the installer is known; OR I am the holder of the permit to construct the sewage system, and am submitting a new Schedule 2, now that the installer is known. I certify that:

2/17/22 Date

1. The information contained in this schedule is true to the best of my knowledge.

2. If the owner is a corporation or partnership, I have the authority to bind the corporation or partnership.

Signature of applicant



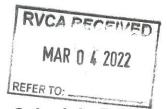
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Date	
	OTTAWA

### Proposed Services Complete Sections 1 thru 7

1. Engineered	2. Water supply
Yes	Proposed
□ No	Existing
3. Type of work proposed  New Installation Replacement Alteration  5. Residential Sewage Design Flow Info. Bedrooms House (floor area) m² People	4. Type of Well  Dug/bored/Sandpoint well  Drilled well  Municipal  Other  6. Sewage Design Flow Other Occupancies Design Flow 3,600  L/day Detailed sewage flow calculations: Refer to Drawing No. PH4407-2(rev.2)
Total Fixture Units (Schedule 8) Residential Flow L/day	Class 4 – BMEC Area Bed (Schedule 11)
7. Type of System  Treatment Unit Class 2 – Leaching Pit Class 3 – Cesspool Class 4 – Shallow Buried Trench  Class 4 – Trench (schedule 9) Fully raised Partially raised In-ground Class 4 – Filter Media (schedule 10) Fully raised Partially raised Partially raised	Fully raised  Partially raised  In-ground  Class 4 – "Type A" Dispersal (schedule 13)  Fully raised  Partially raised  In-ground  Class 4 – "Type B" Dispersal (schedule 14)  Fully raised  Partially raised  In-ground  Class 5 – Holding Tank (9000L min)
☐ In-ground	☐ Class 5 – Holding Tank (9000L min) ☐ Tank/TreatmentUnit/PumpChamber ONLY ☐ Effluent Filter/Risers ONLY





# Do Not Complete Permit # EPTIC FILE # Revision # 22 - 0 5 9 OTTAWA

### Schedule 5 Sewage System Details

Type of System Class 4 - Type A Disper	sal Bed		(	Schedule
Septic/Holding Tank Size: 9,400 Lit			Make: Boyd Bros.	
Septic Tank Effluent Filter Make: Tuf-Tite	)	M	odel: EF6 (or equivalent)	)
Treatment Unit - Make & Model Waterle	oo Biofilter	r B	Γ-15,500 + WaterNOx-L	S
Number of Units: 1			Other:	
Refer to Typical Drawing # PH4407-1&-2(r	ev.2)		Pump(s) required yes	
Mantle Information:			Pump Rate	L/15mi
Native or imported =15m ind	irection(s)		Note: Alarm required	for all
			pumping systems	
Slope subgrade	% slope			
	direction	n(s)		
Site to be Scarified (If clay)	YES / NO	) - N	lo	
Clay Seal Required (If bedrock)	YES / NO	1 - C	No	
□ Trench				
Distribution Pipe Length	m		<b>Shallow Buried Trench</b>	
Loading Area	$m^2$		Pipe Length	m
Type of Chamber	_			
Length of Chamber	m		Filter Media Bed	
☐ BMEC Area Bed			Stone	m²
Type A			Extended Base	m²
□ Туре В			Pipe	m
	$n^2$		Weight of Filter Media	Kg
Sand 78.0	m²		Loading Area	m ²
Pipe 72.0m (6 @ 12.0m)	n			
0	$m^2$			
☐ Tank/Treatment Unit/Pump Chan	nber Repla	ace	ment ONLY	
☐ Effluent Filter & Riser ONLY Construction Notes:				
		_		





OTTAWA

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

Name of Applicant/Agent: Paterson Group Inc. Inspector: HOO Date: December 14, 2021 Time: Date: Time: Ah Sate Applicant/Agent Signature: Inspector Signature: EG (.....) Soil Description T EG (.....) Soil Description Refer to .5m .5m Drawing No. PH4407-2 (rev.2) 1.0 m 1.0 m Test pits not available for inspection. Engineer assumes all liability for soil 1.5m 1.5m and HGWT info/elv's 2.0 m 2.0 m EG (.....) Soil Description T EG (.....) Soil Description T .5m .5m 1.0 m 1.0 m 1.5m 1.5m 2.0 m 2.0 m LEGEND BR = Bedrock HGWT = High ground water table EG = Existing grade GWT = Ground water table M = metresT = percolation rate

### DICA PECEIVED

Ottawa Septic Bureau des systèmes System Office septiques d'Ottawa

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Permit #	
Revision #	22-059
Date	
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Schedule 7 Scale: 1Block = _ **Layout Section** 

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Exact Location see plan															X ₁													





Do Not Com Permit # _S Revision #		#
Date	22-059	

OTTAWA

Fixtures	# Existing	+#	Proposed	X	unit count	=	<b>Fixture Count</b>
Bathroom Bathroom group (toilet, sink and tub					7		
or shower) installed in the same room		+		X	6	=	
Bathtub with/without overhead shower		+		X	1.5	=	
Shower stall		+		X	1.5	=	
Wash basin (SINK) (11/2inch 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	6	+		X	1.5	=	
Other							
Domestic washing machine		+		X	1.5	=	
Combination sink and laundry tray single or double (Installed on 1½ trap)		+		X	1.5	=	

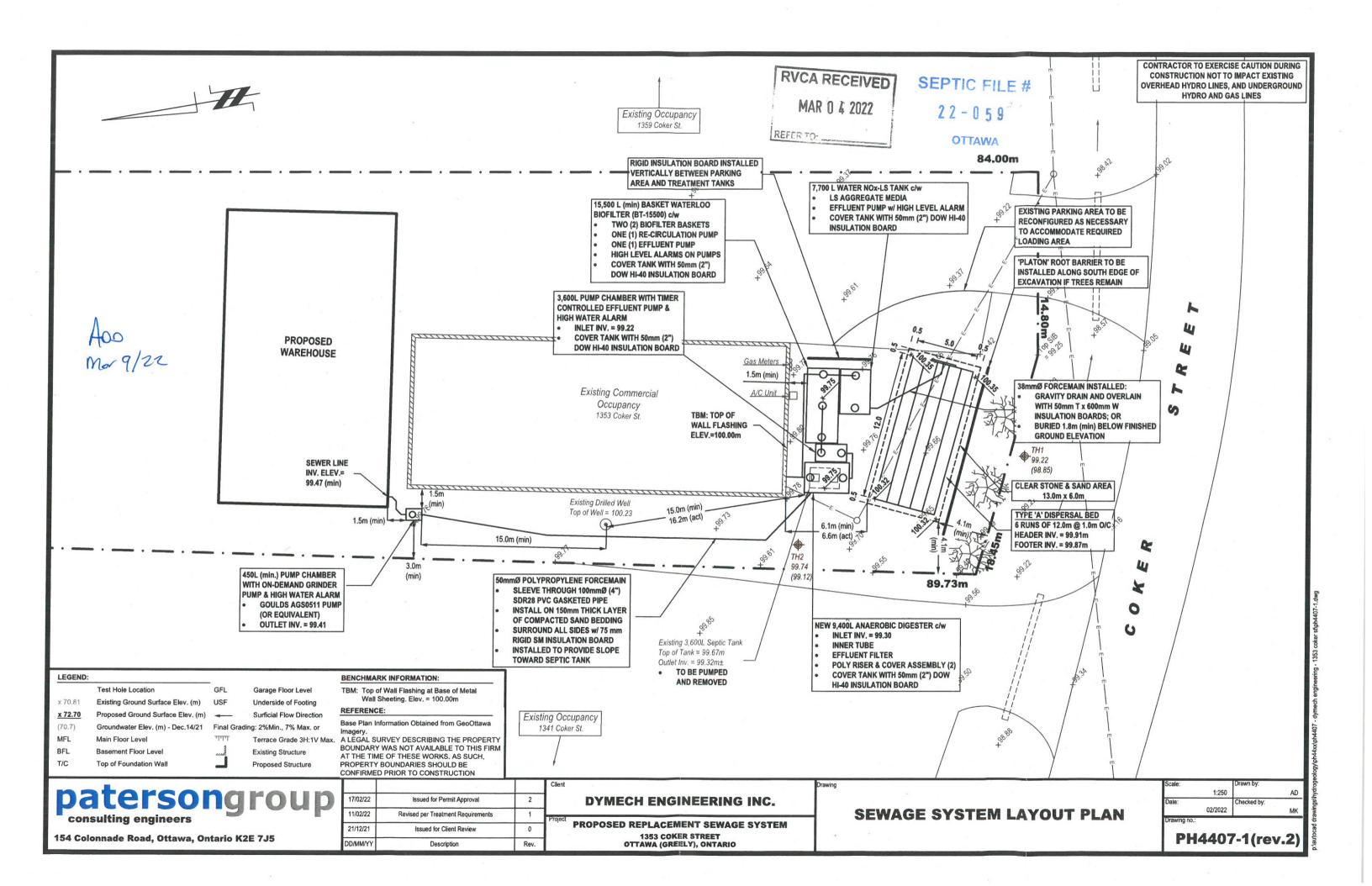
*Insert the TOTAL in section 5 of Schedule 4 (0.Reg 151/13 Table 7.4.9.3)

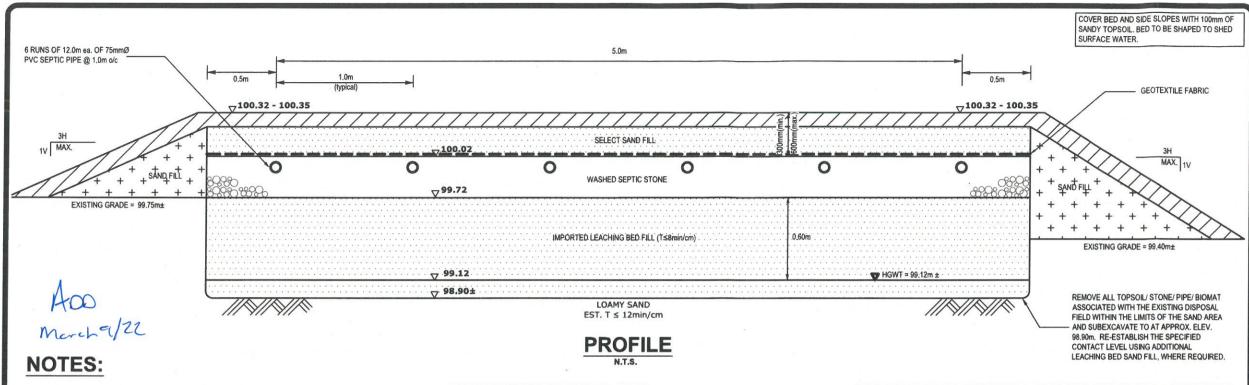
1. Sump pumps and floor drains are not to be connected to the sewage system. Connection of such fixtures to a sewage system may lead to a hydraulic failure of the said system. The above mentioned fixtures should be discharged separately to an approved Class 2 (leaching pit) sewage system.

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)).

- Alle	February 17, 2022	
Agent/Owner signature	Date	

*Total: 16.5





#### 1) ESTIMATE OF DAILY SEWAGE FLOW (Q)

- FACTORY (NO SHOWERS) w/ 6 EMPLOYEES = 6 X 76 L/DAY = 450 L/DAY; OR
- NO, OF WATER CLOSETS = 2 X 950 L/DAY = 1,900 L/DAY

TH 1 FI EV 99 22m

- WAREHOUSE w/ 5 BAY DOORS = 5 X150 L/DAY = 750 L/DAY; AND
- NO. OF WATER CLOSETS = 1 X 950 L/DAY = 950 L/DAY

DESIGN SEWAGE FLOW RATE = 1.900 (EXISTING) + 1.700 (PROPOSED) = 3.600 L/DAY

#### 2) SOIL CONDITIONS

SOILS INFORMATION GATHERED BY PATERSON GROUP INC. ON DECEMBER 14, 2021 TUO ELEV 00 74-

TITT, ELLY.	33.22111	III Z, LLLV.	33.14111
0-0.13	TOPSOIL	0-0.13	TOPSOIL
0.13-0.29	MIXED FILL	0.13-0.68	MIXED FILL
0.29-0.37	TOPSOIL	0.68-0.82	TOPSOIL
0.37-050	LOAMY SAND	0.82-1.22	LOAMY SAND
0.50-0.65	SAND w/ PEBBLES & GRAVEL	1.22-1.35	GR. SANDY CLAY
0.50-0.65	SAND W/ PEBBLES & GRAVEL	1.22-1.35	GR. SANDY CLA

-WATER @ 0.37m B/G

- WATER @ 0.62m B/G

#### 3) SEPTIC TANK / ANAEROBIC DIGESTER

- PUMP AND REMOVE EXISTING SEPTIC TANK
- MINIMUM WORKING CAPACITY OF NEW ANAEROBIC DIGESTER TANK = 9,400L (min.)
- TANK TO CONTAIN A MINIMUM 720L INNER TUBE OF 305mmØ
- AN OBC APPROVED EFFLUENT FILTER (I.E. POLYLOK PL-122 EFFLUENT FILTER, OR EQUIVALENT) SHALL BE INSTALLED ON THE OUTLET PIPE OF ANAEROBIC DIGESTER TANK.
- THE ACCESS LIDS TO THE TANK OPENINGS SHALL BE EXTENDED TO THE GROUND SURFACE. INSTALL RISERS AND COVERS TO SUIT.

#### 4) PUMP CHAMBER (IN TREATMENT PROCESS)

- INSTALL A NEW 3,600L (min) PUMP CHAMBER
- EQUIP WITH OPERATIONAL AND HIGH-LEVEL ALARM FLOATS SET TO MANUFACTURER
- ACCESS LID TO TANK OPENING SHALL BE EXTENDED TO THE GROUND SURFACE. INSTALL RISER AND COVER TO SUIT

#### WATERLOO BIOFILTER BASKET TANK

- INSTALL A NEW MINIMUM CAPACITY 15,500L CONCRETE TREATMENT TANK c/w TWO (2) **BIOFILTER BASKETS**
- HELICAL SPRAY NOZZLES TO BE INSTALLED DIRECTLY OVER BIOFILTER BASKETS
- INSTALL ONE (1) HP LITTLE GIANT WSV50 (OR EQUIVALENT) EFFLUENT PUMP PLUMBED TO RECIRCULATE EFFLUENT TO INLET OF ANAEROBIC DIGESTER TANK
- INSTALL ONE (1) HP LITTLE GIANT WSV50 (OR EQUIVALENT) EFFLUENT PUMP PLUMBED TO

- DISCHARGE FEELLIENT INTO WATER NOVALS TANK
- EQUIP WITH OPERATIONAL AND HIGH-LEVEL ALARM FLOATS SET TO MANUFACTURER
- ACCESS LID TO TANK OPENING SHALL BE EXTENDED TO THE GROUND SURFACE. INSTALL RISER AND COVER TO SUIT

#### 6) WATER NOx-LS TANK

- INSTALL A NEW 7,700L CONCRETE, TWO-COMPARTMENT WATER NOx-LS TANK
- FIRST COMPARTMENT TO CONTAIN LIME-SULPHUR AGGREGATE MEDIA
- SECOND COMPARTMENT TO BE EQUIPPED WITH ONE (1) 1/2 HP LITTLE GIANT WSV50 (OR EQUIVALENT) EFFLUENT PUMP AND OPERATIONAL AND HIGH-LEVEL ALARM FLOATS SET TO MANUFACTURER SPECIFICATIONS
- ACCESS LID TO TANK OPENING SHALL BE EXTENDED TO THE GROUND SURFACE. INSTALL RISER AND COVER TO SUIT

#### 7) FORCEMAIN (TO TYPE A DISPERSAL BED)

- A 38mmØ FORCEMAIN SHALL BE USED TO CARRY THE EFFLUENT FROM THE WATER NOx-LS TANK TO THE SECONDARY HEADER OF THE TYPE A DISPERSAL BED.
- FORCEMAIN SHALL BE INSTALLED TO FITHER GRAVITY DRAIN BACK TO THE PUMP CHAMBER OR BURIED MIN. 1.8m BELOW GROUND SURFACE TO FROST PROTECT THE CHARGED LINE.
- THE FORCEMAIN SHALL BE INSTALLED ON A 150mm THICK LAYER OF COMPACTED SAND OVERLAIN WITH 50mm T x 600mm W RIGID INSULATION BOARD IF NOT INSTALLED 1.8m B/G.
- OPERATIONAL FLOAT TETHER LENGTH SHALL BE SET SO TO MANUFACTURER SPECIFICATIONS
- PUMP CHAMBER SHALL BE EQUIPPED WITH A HIGH-LEVEL ALARM FLOAT SET SO TO ALLOW RESPONSE TIME IN THE EVENT OF PUMP FAILURE.

#### **TYPE 'A' DISPERSAL BED**

- STONE AREA REQUIRED = Q/50 = 3.600/50 = 72.0m2
- USE 6 RUNS OF 12.0m EACH @ 1.0m o/c STONE AREA PROVIDED = 6.0m x 13.0 = 78.0m²
- SAND AREA REQUIRED = 3,600(12)/850 = 50.8m²
- SAND AREA PROVIDED = 6.0m x 13.0m = 78.0m² HYDRAULIC LOADING RATE = 46.2 L/m2/DAY

#### 9) TYPE 'A' DISPERSAL BED CONSTRUCTION GUIDELINES

- REMOVE ALL TOPSOIL/ PIPE/ STONE/ BIOMAT/ CONTAMINATED MATERIAL ASSOCIATED WITH EXISTING DISPOSAL FIELD AND SUBEXCAVATE TO AT LEAST ELEVATION 98,90m
- A MINIMUM THICKNESS OF 0,30m OF LEACHING BED SAND FILL, HAVING A PERCOLATION RATE OF NOT GREATER THAN 8 min/cm, SHALL BE INSTALLED BELOW OVER THE EXTENDED
- LEACHING BED SAND FILL SHALL CONSIST OF UNIFORM SAND WITH GRADING LIMITS SIMILAR TO 100% PASSING 13,2mm SIEVE, LESS THAN 5% PASSING 0.075mm SIEVE AND 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

- 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
- 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 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 RANGE OF 0.3m TO 0.6m.
- THE SIDES OF THE BED SHOULD BE SLOPED IN THE RANGE OF 3H:1V OR SHALLOWER.

#### 10) MINIMUM CLEARANCE DISTANCE FROM LEACHING BED

- 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

#### 11) 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

#### 12) GENERAL

- 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 AND REGULATIONS.
- CONTRACTOR SHALL REVIEW DRAWINGS IN DETAIL AND SHALL INFORM THE CONSULTANT OF ANY ERRORS AND/OR OMISSIONS ON DESIGN DRAWINGS IMMEDIATELY.
- CONTRACTOR SHALL BE RESPONSIBLE TO LOCATE AND PROTECT ALL EXISTING UNDERGROUND SERVICES CONTRACTOR SHALL VISIT THE SITE AND REVIEW ALL DOCUMENTATION TO BECOME
- FAMILIAR WITH THE SITE AND SUBSURFACE SOIL CONDITIONS TO DETERMINE SUITABLE METHODS OF CONSTRUCTION.
- THE FIRM OF PATERSON GROUP INC. HAS PROVIDED DESIGN SERVICES ONLY FOR THE SUBJECT SEWAGE SYSTEM, THE DESIGN HAS BEEN CARRIED OUT IN ACCORDANCE WITH THE MANUFACTURER'S GUIDELINES AND OUR INTERPRETATION OF PART 8 OF THE ONTARIO BUILDING CODE.
- THIS FIRM IS TO COMPLETE ANY CONSTRUCTION INSPECTION(S), ADDITIONAL FEES MAY BE
- APPLIED, CONFIRMATION OF PAYMENT WILL BE REQUIRED PRIOR TO THE INSPECTION.
  THE TEST HOLE INFORMATION PROVIDED, IS INTENDED TO BE USED FOR DESIGN PURPOSES ONLY, AND SHOULD NOT BE RELIED UPON FOR CONSTRUCTION PURPOSES. IF DISCREPANCIES ARE FOUND DURING THE CONSTRUCTION PROCESS, IT IS THE CLIENT'S RESPONSIBILITY TO CONTACT THIS FIRM TO MAKE ANY NECESSARY COMMENTS OR REVISIONS. ADDITIONAL REVISIONS ARE NOT CONSIDERED PART OF THE DESIGN WORKS AND WILL BE CONSIDERED AS AN



17/02/22	Issued for Permit Approval	2
11/02/22	Revised per Treatment Requirements	1
12/12/21	Issued for Preliminary Review	0
DD/MM/YY	DESCRIPTION	REV.

Consultant

### patersongroup

consulting engineers

Client:

**DYMECH ENGINEERING INC.** 

#### PROPOSED SEWAGE SYSTEM REPLACEMENT

1353 COKER ST. **OTTAWA (GREELY), ONTARIO** 

SEWAGE SYSTEM **DETAIL & NOTES** 

Scale:	Drawn by:
N.T.S.	AD
Date:	Checked by:
02/2022	HV

PH4407-2(rev.2)

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#### **Permit**

# Part 8 – Sewage System Ontario Building Code

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

A copy of this permit must be posted on the property at all time during construction. OBC, Division C — Part 1, Section 1.3.2.1 This permit verifies that the on-site sewage system was reviewed and approved for construction under the Ontario Building Code and O.Reg. 323/12 as amended by O.Reg. 151/13. **ALEX DEKLEINE** Inspected & Recommended by: ____ DYMECH ENGINEERING INC Owner: _ MARCH 9, 2022 Inspection Date & Time: SUNNY Weather: _ 1353 COKER ST Civic Address: Osgoode: CUMBERLAND: Gloucester: number of bedrooms: _ fixture units: ___ finished floor area: _ 3600 L/day pretreatment tank 9400 weigh bills for yes N/A effluent filter __ grain size analysis required yes no AS PER WATERLOO BIOFILTER L/15 MIN site to be scarified yes treatment unit Waterloo Biofilter BT-15,500 clay seal inspection yes no number of units ___ mantle required yes no sub-grade inspection yes □ no **ELEVATION** ☐ In Ground Partially Raised Fully Raised TYPE OF SYSTEM □ Trench ☐ Shallow Buried Trench OPipe and Stone or OChambers pipe length ___ type of chamber ___ orifice spacing ____ loading area ___ ☐ Filter Media Bed total trench length _ stone __ trench configuration _ extended base _____ Dispersal Bed ○ BMEC Type A Type B weight of filter media _____ stone _ loading area ___ 78 sand □ Class 5 Holding Tank 6 RUNS OF 12M @ 1M O/C □ Septic Tank Only weight of sand _ Permit Date: PARCH 17 Manager, Septic System Approvals: Comments: _ maintenance/pumping required ■ ESA permit # required engineer to verify subgrade squirt height Class 5 Holding Tank approval only valid for three years from date of issue Manager, Septic System Approvals: Revision Date: _