August 21, 2024

PH4401-LET.01-REV.01

Cash for Trash Canada 7628 Flewellyn Road Ottawa, Ontario K2S 1B6

Attention: Charbel Bouroufail

Subject: Hydrogeological Report and Terrain Analysis Proposed Commercial Development 7628 Flewellyn Road Ottawa, Ontario

INTRODUCTION

Further to your request, Paterson has conducted a Hydrogeological Report and Terrain Analysis in support of a Zoning By-Law Amendment for the proposed expansion to the existing commercial development located at 7628 Flewellyn Road in Ottawa, Ontario.

The purpose of this work has been to determine the suitability of the water supply aquifer underlying the site to service the expansion of the proposed commercial development.

The subject site consists of a 20.22 ha lot and is currently occupied by a vehicle salvage yard which includes several structures, a gravel surfaced parking lot and stockpiles of scrap metals. The southern portion of the site is generally vacant. The ground surface across the site generally slopes downward toward the south while the local groundwater flow is likely towards the west, towards the adjacent quarry with regional shallow groundwater flow to the south.

The subject site is bordered by residential dwellings and Flewellyn Road to the north, vacant land to the east, and an existing quarry and associated access roads and fill storage areas to the south and west. The northwest portion of the subject site is currently zoned as RG1(21r) which corresponds to Rural General Industrial Zone with a minimum lot area of 8,000 m² and is located in Ward 21. The remainder of the subject site is identified as RU which refers to Rural Countryside Zone.

Toronto

Consulting Engineers

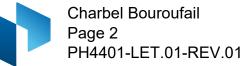
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Geotechnical Engineering Environmental Engineering Hydrogeology Materials Testing Building Science Rural Development Design Temporary Shoring Design Retaining Wall Design Noise and Vibration Studies

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North Bay





A Hydrogeological pre-consultation was completed with a City of Ottawa Hydrogeologist on July 17, 2023. The City Hydrogeologist suggested that additional sampling be completed during the 8-hour pumping test for Polycyclic Aromatic Hydrocarbons (PAHs), Petroleum Hydrocarbons (PHCs) in addition to the standard Subdivision Package suite of parameters, trace metals and Volatile Organic Compounds (VOCs) required by the City of Ottawa Hydrogeological and Terrain Analysis Guidelines (HTAG).

It is understood that two Environmental Activity and Sector Registrations are active at the subject site in accordance with the site usage. Registration Number R-007-467538169, filed November 2, 2016 indicates that the site is registered for the use, operation, enlargement and extension of an end-of-life vehicle waste disposal site. As an active end-of-life vehicle waste disposal site, fluids defined in O. Reg. 85/16 and Reg. 347, such as anti-freeze and fuel, are to be removed over an impermeable surface which has a spill containment system as defined in O. Reg. 85/16.

Further, R-004-71121872151 indicates that the subject site is registered for the use, operation, alteration, engagement or extension or replacement of a waste management system serving the Province of Ontario.

The activities associated with the current site usage as an end-of-life vehicle waste disposal site are provincially regulated and managed by the province of Ontario. Expansion and modifications to the subject site will not result in additional activities detrimental to the underlying aquifer. It is recommended that the client adhere to the current best management practices.

In accordance with Ontario End-of-Life (ELV) Activity Requirements, a Spill Prevention and Management Plan should be developed in support of the Site Plan application and include at a minimum:

- Procedures and materials to be used for spill clean-up.
- □ The location of all floor drains.
- □ The location of materials to be used to seal drains in the event of a spill.
- □ Names of persons to be notified in the event of a spill.
- □ Schedule for inspecting storage areas, containers and spill containment systems.

DESCRIPTION OF SUBJECT SITE

The subject site is an approximately 20.22 ha lot and is currently occupied by a vehicle salvage yard which includes a one-storey office building, a gravel surfaced parking lot, a weigh scale, an automobile fluid drainage station with various sheds, temporary storage buildings and stockpiles of automobiles and scrap metal product.



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The re-zoning application is for the proposed expansion of the commercial development. The subject site will be further developed with new buildings, access lanes, parking areas and designated stockpile areas. Please refer to Figure-1 Key Plan and McRobie - CFT Site Plan – Zoning Amendment Plan, attached, for the proposed site location and site layout.

The subject site is currently serviced by an onsite sewage system and a private drilled well. A new sewage system is proposed to be located within the northeast corner of the site to replace the existing sewage system. Paterson has completed a septic flow calculation and the calculation resulted in a total daily water demand calculation of less than 7,500 L/day. A total daily water demand of 10,000 L/day will be conservatively used to account for future expansions. The calculations are based on Part 8 of the Ontario Building Code (OBC) and are considered to be conservative.

A licensed well contractor (Air Rock Drilling) was retained to install a new drilled well on site on May 18, 2023. The new drilled well, hereby referred to as TW1, was tested in support of the proposed commercial development and was able to provide a sufficient volume of groundwater for the proposed development. Groundwater samples have been collected from the onsite well and submitted to an accredited laboratory for comprehensive testing of bacteriological, chemical and physical water quality parameters consistent with the standard "Subdivision Supply" suite of parameters as well as trace metals, PAHs, PHCs and VOCs.

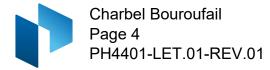
The suitability of the aquifer to supply the subject site was assessed using the methodology provided in City of Ottawa HTAG.

MISSISSIPPI-RIDEAU SOURCE PROTECTION PLAN

The Mississippi-Rideau Source Protection Plan (MRSPP) provides guidance as to which policies apply to a given property, municipality or specific activity and if there are specific designations that apply to the area. The subject site and surrounding areas have been designated as a Highly Vulnerable Aquifer (HVA), and Wellhead Protection Area D (score of 2) within the MRSPP, and are identified as two of four groundwater related vulnerable areas identified within the Clean Water Act (2006). The four vulnerable areas consist of SGRA, HVA, IPZ and wellhead protection area (WHPA).

Based upon the designation of an HVA and WHPA, the MRSPP provides a list of activities that are prohibited, managed or encouraged to change dependent upon the vulnerable area type. The subject site is mapped to be in WHPA D (Source Protection Atlas), however has a score of 2 (MRSPP). There is no prohibition of land uses on the subject site based upon its existing usage.

Therefore, there are no related requirements for an HVA or WHPA D (score of 2) with a score of less than 8 at this location.



FIELDWORK PROGRAM

Well Installation

As a means to demonstrate the adequacy of the aquifer underlying the subject lands, with respect to water quality and quantity, a new drilled well (Tag # A378991) was constructed by Air Rock Drilling (Air Rock) on May 18, 2023. The MECP Water Well Record (WWR) indicates that the well extends to approximately 36.5 m below ground surface (bgs). The 152 mm steel casing is recorded to extend to 12.8 m bgs, with a 0.61 m stick up. Limestone bedrock was encountered at the ground surface. The onsite WWR demonstrates that the well was installed according to the City of Ottawa HTAG. A copy of the WWR can be found attached.

Well Testing

As a means to evaluate the water supply aquifer intercepted by the well, the well was subjected to an 8-hour constant rate pumping test. The pumping test was conducted on June 1, 2023 under the full-time supervision of Paterson personnel. Prior to the pumping test the well was disinfected as per the MECP Disinfection Instruction Sheet (attached), and a data-logger was installed to monitor the background groundwater levels.

A submersible pump was rented from Air Rock for the pumping test. A licensed water well technician (Air Rock) completed the necessary plumbing related activities. 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 and any septic systems in the area. Upon completion of the test, the pump was removed and the well was disinfected by Air Rock.

The pumping test was carried out at a pumping rate of 38 L/min for a duration of 8 hours. During the pumping test, the pumping rate was periodically measured using the timed volume correlation method. The pump rate was maintained within 5% of the selected pump rate. The static water level was recorded manually and an electric datalogger (VanEssen TD-Diver) was installed in the test well prior to the start of the pumping test. The selected rate of 38 L/min provides approximately 1.8 times the maximum total daily design volume for the septic system during the 8-hour pumping test. It should be noted that the actual daily water usage is typically much lower than the theoretical OBC values. 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.



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Recovery data was collected from the well following the completion of the pumping. The well was noted to have achieved 95% recovery approximately 3 minutes after the completion of pumping.

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

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 Eurofins Environmental Testing Canada Inc. laboratory in Ottawa. All samples were received by the laboratory within 24 hours of collection.

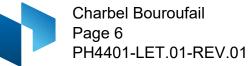
A series of field tests of the pumped water were carried out at the well head during the 8-hour pumping test. The parameters tested at the well head included: pH, total dissolved solids, conductivity, turbidity, true colour, and temperature.

Aquifer Analysis

Water Quantity

Pumping test data from the pumping test performed at TW1 was analyzed using AQTESOLV Pro Version 4.5 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)	914				
Pumping Rate (L/min)	38				
Pre-test Static Water Level (m TOC)	12.6				
Post-test Water Level (m TOC)	12.7				
Available Drawdown (m)	24.1				
%Drawdown During Pump Test (%)	0.6				
Specific Capacity (L/min/m drawdown)	253				



The drawdown data was analyzed using the Theis and Cooper Jacob methods of analysis. Aquifer transmissivity is estimated to be 914 m²/day. Refer to the Theis and Cooper Jacob methods of analysis data sheets attached to this report.

The pumping test results show that TW1 has a high yield to support the water demands that may be required. Overall maximum drawdown, at a constant pumping rate for a period of 8 hours, was approximately 0.15 m (0.6% of the available drawdown). 100% recovery was achieved approximately 3 minutes after the end of pumping.

The total volume of water pumped during the 8-hour pumping event was approximately 18,240 L. This is approximately 1.8 times the maximum total daily design volume of water required to support the proposed commercial development expansion (maximum 10,000 L/day). It should be noted that the actual daily water usage is typically much lower than the theoretical OBC values.

The suitability of the aquifer to supply the proposed site was assessed using the methodology provided in the City of Ottawa HTAG.

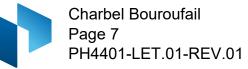
Based on the information summarized in Table 1, it is readily apparent that the water supply well has intercepted an adequately strong water supply aquifer which has sufficient quantity to service the proposed development.

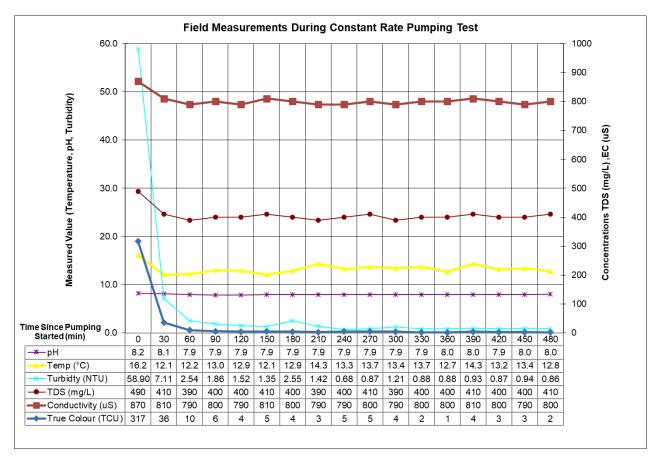
Given the analyses presented and summarized above, it is our opinion that there is an adequate supply of water to support the proposed Re-Zoning Application. Available WWRs of the neighbouring properties on the MECP Well Record mapping website indicated that the wells were screened in limestone bedrock.

Water Quality

Field Data

Turbidity, electrical conductivity, total dissolved solids (TDS), pH, true colour, and temperature were measured at the wellhead during the pumping test performed on TW1. The measurements and time intervals for each of these parameters are summarized on the graphical representation below. In addition, a HACH Pocket Colorimeter II chlorine reader was used to measure the free chlorine residual level. No chlorine residual was detected in the discharge water prior to the collection of the water samples.





Laboratory Data

The Subdivision Package suite of parameters as well as trace metals, PAHs, VOCs, and PHCs laboratory water quality results obtained from the groundwater sample collected from the pumping test of TW1 are provided in Table 2a – 2d below. The laboratory analyses reports can be found attached.



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TABLE 2a: GROUNDWATE		DLOGY & GE	ENERAL GEO	OCHEMISTRY					
		OD	ws	TW1					
PARAMETER	UNITS	LIMIT	TYPE	GW1 (4 hr) 6/1/2022	GW2 (8 hr) 6/1/2022				
Escherichia Coli (E.Coli)	ct/100mL	0	MAC	0	0				
Total Coliforms	ct/100mL	0	MAC	0	0				
GENERAL CHEMICAL - HE	ALTH RELA	TED							
Fluoride (F)	mg/L	1.5	MAC	0.68	0.72				
Ammonia (N-NH ₃)	mg/L	-	-	0.21	0.21				
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	-	-	0.31	0.29				
Turbidity (Field)	NTU	1.0 (5.0)	MAC/AO	0.68	0.86				
Turbidity (Laboratory)	NTU	1.0 (5.0)	MAC/AO	1.0	0.4				
GENERAL CHEMICAL - AE	STHETIC RE	LATED							
Alkalinity (as CaCO3)	mg/L	30-500	OG	278	276				
Chloride (Cl)	mg/L	250	AO	69	72				
Colour (Apparent)	TCU	5	AO	5	5				
Colour (Field - True)	TCU	5	AO	5	2				
Conductivity	uS/cm	-	-	777	769				
Dissolved Organic Carbon	mg/L	5	AO	1.80	1.70				
Hardness (as CaCO3)	mg/L	100	OG	254	261				
Ion Balance	unitless	-	-	0.99	0.99				
рН	unitless	6.5-8.5	AO	8.06	8.1				
Phenols	mg/L	-	-	<0.001	<0.001				
Sulphate (SO ₄)	mg/L	500	AO	53	55				
Sulphide (S_2)	mg/L	0.05	AO	<0.01	<0.01				
Tannin & Lignin	mg/L	-	-	<0.5	<0.5				
Total Dissolved Solids	mg/L	500	AO	505	500				

1. ODWS identifies the following types of parameters

MAC = Maximum Allowable Concentration

AO = Aesthetic Objective

OG = Operational Guideline

2. Shaded Concentration Indicates an Exceedance of the ODWS Objective



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TABLE 2b: GROUNDWATER GEOCHEMISTRY - METALS							
		OD	WS	т	V1		
PARAMETER	UNITS	LIMIT	TYPE	GW1 (4 hr) 2022-06-01	GW2 (8 hr) 2022-06-01		
Metals							
Aluminum (Al)	mg/L	0.1	OG	<0.01	<0.01		
Antimony (Sb)	mg/L	0.006	IMAC	<0.0005	<0.0005		
Arsenic (As)	mg/L	0.01	IMAC	<0.001	<0.001		
Barium (Ba)	mg/L	1.0	MAC	0.05	0.06		
Beryllium (Be)	mg/L	-	-	<0.0005	<0.0005		
Boron (B)	mg/L	5.0	IMAC	0.46	0.44		
Cadmium (Cd)	mg/L	0.005	MAC	<0.0001	<0.0001		
Calcium (Ca)	mg/L	-	-	54	55		
Chromium (Cr)	mg/L	0.05	MAC	<0.001	<0.001		
Cobalt (Co)	mg/L	-	-	<0.0002	<0.0002		
Copper (Cu)	mg/L	1.0	AO	<0.001	<0.001		
Iron (Fe)	mg/L	0.3	AO	0.14	0.14		
Lead (Pb)	mg/L	0.01	MAC	<0.001	<0.001		
Magnesium (Mg)	mg/L	-	-	29	30		
Manganese (Mn)	mg/L	0.05	AO	<0.01	<0.01		
Mercury (Hg)	mg/L	0.001	MAC	<0.0001	<0.0001		
Molybdenum (Mo)	mg/L	-	-	<0.005	<0.005		
Nickel (Ni)	mg/L	-	-	<0.005	<0.005		
Potassium (K)	mg/L	-	-	5	5		
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	77	75		
Strontium (Sr)	mg/L	-	-	4.5	4.56		
Thallium (TI)	mg/L	-	-	<0.0001	<0.0001		
Uranium (U)	mg/L	0.02	MAC	<0.001	<0.001		
Vanadium (V)	mg/L	-	-	<0.001	<0.001		
Zinc (Zn)	mg/L	5.0	AO	<0.01	<0.01		

1. ODWS identifies the following types of parameters

MAC = Maximum Acceptable Concentration

IMAC = Interim Maximum Acceptable Concentration

AO = Aesthetic Objective

OG = Operational Guideline

2. Shaded Concentration Indicates an Exceedance of the ODWS Objective



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TABLE 2c: GROUNDWATER GEC	CHEMISTRY	- VOLATILE	S	_	
		OD	ws	т	V1
PARAMETER	UNITS	LIMIT	TYPE	GW1 (4 hr) 6/1/2022	GW2 (8 hr) 6/1/2022
VOCs Surrogates			•	-	
1,2-dichloroethane-d4	%	-	-	116	119
4-bromofluorobenzene	%	_	-	104	101
Toluene-d8	%	-	-	98	97
Volatiles	70		1		01
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	-	-	<0.4	<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	<0.4	<0.4
1,2-dichloropropane	μg/L μg/L	-	-	<0.2	<0.2
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 μg/L		_	<0.4	<0.4
1,4-dichlorobenzene	μg/L	5.0	MAC	<0.3	<0.3
Acetone	μg/L μg/L	-	IVIAC	<5	<5
Benzene		1.0	MAC	<0.5	<0.5
Bromodichloromethane	μg/L	-	IVIAC	<0.3	<0.3
Bromoform	µg/L	-	-	<0.3	<0.3
Bromomethane	μg/L	-	-	<0.4	<0.4
c-1,2-Dichloroethylene	μg/L	-	-	<0.3	<0.3
	μg/L		-	<0.4	<0.4
c-1,3-Dichloropropylene Carbon Tetrachloride	μg/L	2.0	MAC	<0.2	<0.2
	μg/L	2.0	IVIAC		<0.2
Chloroethane	μg/L	-	-	< 0.2	<0.2
Chloroform Dibromochloromethane	μg/L	-	-	< 0.5	
	μg/L	-	-	< 0.3	< 0.3
Dichlorodifluoromethane	μg/L	-	-	< 0.5	<0.5
Dichloromethane	μg/L	50	MAC	<4.0	<4.0
Ethylbenzene	μg/L	140	MAC	< 0.5	< 0.5
Ethylene Dibromide	μg/L	-	-	<0.2	<0.2
Hexane	μg/L	-	-	<5	<5
m/p-xylene	μg/L	-	-	<0.4	<0.4
Methyl Ethyl Ketone (MEK)	μg/L	-	-	<2	<2
Methyl Isobutyl Ketone (MIBK)	μg/L	-	-	<5	<5
Methyl Tert Butyl Ether (MTBE)	µg/L	15	AO	<2	<2
Vonochlorobenzene	μg/L	80	MAC	< 0.5	<0.5
o-xylene	μg/L	-	-	<0.4	<0.4
Styrene	μg/L	-	-	< 0.5	<0.5
-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

- 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



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TABLE 2d: GROUNDWATER						
		ODWS		TW1		
PARAMETER	UNITS	LIMIT	TYPE	GW1 (4 hr) 6/1/2022	GW2 (8 hr) 6/1/2022	
PHCs Surrogates			•	L.		
Alpha-androstrane	%	-	-	106	105	
Petroleum Hydrocarbons (PH	Cs)					
F1 (C6-C10)	μg/L	-	-	<20	<20	
F1-BTEX (C6-C10)	μg/L	-	-	<20	<20	
F2 (C10-C16)	μg/L	-	-	<20	<20	
F3 (C16-C34)	μg/L	-	-	<20	<20	
F4 (C34-C50)	μg/L	-	-	<20	<20	
Polycyclic Aromatic Hydryoca	rbons (PAHs)				•	
1+2-methylnaphthalene	μg/L	-	-		<0.1	
1-methylnaphthalene	μg/L	-	-		<0.1	
2-methylnaphthalene	μg/L	-	-		<0.1	
Acenaphthene	µg/L	-	-		<0.1	
Acenaphthylene	µg/L	-	-		<0.1	
Benzo(a)anthracene	µg/L	-	-		<0.1	
Benzo(a)pyrene	µg/L	0.0	MAC		<0.01	
Benzo(b)fluoranthene	μg/L	-	-		<0.05	
Benzo(g,h,i)perylene	μg/L	-	-		<0.1	
Chrysene	μg/L	-	-		<0.05	
Dibenzo(a,h)anthracene	μg/L	-	-		< 0.054	
Fluoranthene	μg/L	-	-		<0.1	
Fluorene	µg/L	-	-		<0.1	
Indeno(1,2,3-c,d)pyrene	µg/L	-	-		<0.1	
Naphthalene	µg/L	-	-		<0.1	
Phenanthrene	μg/L	-	-		<0.1	
Pyrene	μg/L	-	-		<0.1	

1. ODWS identifies the following types of parameters

MAC = Maximum Acceptable Concentration

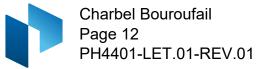
IMAC = Interim Maximum Acceptable Concentration

- AO = Aesthetic Objective
- OG = Operational Guideline
- N/A = not tested
- 2. Shaded Concentration Indicates an Exceedance of the ODWS Objective

The bacteriological test results (Certificate of Analysis – Report No. 1997742) indicated that all samples were non-detect (0 ct/100 mL) for E.Coli and Total Coliforms.

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

- □ Hardness (as CaCO₃)
- Total Dissolved Solids



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

Hardness as CaCO₃

Hardness, expressed as calcium carbonate, is an operational guideline and does not appear in the ODWS. Rather, it appears in the Technical Support Documents for Ontario Drinking Water Standards, Objectives and Guidelines as a parameter with an operational guideline at 100 mg/L. At the measured concentrations of 254 and 261 mg CaCO₃/L at the 4- and 8-hour marks, respectively, the water is considered to be hard, however, it is below the reasonable treatable limit of 500 mg CaCO₃/L specified in Table 3 of the MOECC guidance document Procedure D-5-5 (1996). The hardness concentration can be treated using conventional softening technologies.

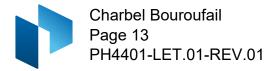
Total Dissolved Solids (TDS)

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. Water with a TDS objective above 500 mg/L of TDS may not be palatable to some users, but taste is subjective. The TDS concentration was 505 and 500 mg/L at the 4- and 8-hour marks, which slightly exceeds the TDS Aesthetic Objective. A point-of-use reverse osmosis unit could be used as a drinking source, if desired. 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 0.7. 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 0.7, a high 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.

Sodium

Sodium (Na), an aesthetic parameter, was detected in the laboratory test samples at concentrations of 77 and 75 mg/L in TW1 which does not exceed the ODWS aesthetic objective of 200 mg/L. Although sodium is not toxic and no maximum acceptable concentration has been set, concentrations above 20 mg/L require that the Medical Officer of Health be notified of the water quality results, so that this information may be passed on to local physicians for use in treatment of those requiring a sodium-restricted diet.



Terrain Analysis

Surficial Geology

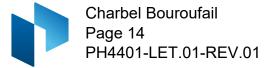
The field program for the investigation was carried out from May 21 to 25, 2021. At the time, a total of six (6) boreholes were advanced to a maximum depth of 10.1 m below existing ground surface (bgs) and were distributed in a manner to provide general coverage of the subject site. Refer to Paterson Drawing PG5783-1 Test Hole Location plan, attached, for test hole locations.

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

Generally, the subsurface profile at the test holes consisted of a thin layer of fill and/or topsoil underlain by glacial till or bedrock. The fill was generally observed to consist of brown silty sand with gravel and rock fragments. The topsoil and/or fill were observed to extend to depths ranging between 0.1 and 0.6 m bgs. Glacial till consisting of brown silty sand with gravel, cobbles, and boulders was observed in select boreholes, specifically BH4-21, BH5-21, and BH6-21. Refusal to augering was encountered in all boreholes at depths between 0.2 and 2.2 m bgs. Bedrock was cored in boreholes BH1-21, BH2-21, and BH3-21 starting at depths of 0.15 to 0.2 m bgs extending to maximum depths of 10.1 m bgs. Groundwater was measured to be 1 - 2 m bgs in BH1-21, BH2-21, and BH3-21,

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. See attached Soil Profile and Data Logs (attached) for more information.

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



Hydrogeological Sensitivity of the Site

The subject area currently consists of a vehicle salvage yard (Cash for Trash) and undeveloped land, with residential properties nearby that are supported by private services. The subject site is serviced by an existing private well and septic and the proposed development to be serviced by a new private well (TW1) and septic system. The ground surface slopes gently in the southern direction with an approximate elevation decline of 1.5 m. An additional 1.5 m slope is located along the southern limits of the salvage yard area.

Based upon our field investigation, overburden thickness was observed to be 0.1 to 2.2 m. The overburden generally consists of fill and/ or topsoil, underlain by bedrock or glacial till underlain by bedrock. Based on available geological mapping, the subject site is underlain by Paleozoic limestone with dolostone and shale of the Gull River formation in the Simcoe Group with a general overburden thickness of 0 to 3 m. General groundwater flow direction is anticipated to be towards the south.

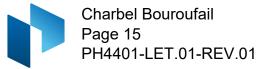
Due to the shallow nature of the bedrock, the site is considered to be hydrogeologically sensitive and, therefore, mitigating measures are recommended. Surrounding well records were reviewed on the MECP website, and the shallowest aquifer intercept in the area is recorded to be 11.3 m bgs. Due to the hydrogeological sensitivity of the Site, any future wells should be installed with double the amount of standard casing, and separation distances between potable supply wells and septic system components should be increased to 30 m. It should be noted that double the amount of standard casing equates to 12 m of casing. Any future wells should be installed in accordance with O.Reg 903. Furthermore, it is recommended that, where possible, new wells to be installed are located upgradient of any proposed or existing septic systems.

Conceptual Lot Development Plan

Finalized building plans and design details were not available at the time of report preparation, however, based on discussions with the design team, the onsite well and septic system will service an office, warehouse, and a mechanic shop. An existing building (ie. Previously a house) is used as an automotive sales office.

Total Daily Design Sewage Flow

The re-zoning application only addresses the total capacity of the site area to attenuate septic effluent applied within the property boundaries. The total daily design sewage flow (TDDSF) volume used for this assessment is 10,000 L/day while the expected design flows, calculated under Part 8 – Ontario Building Code, will be less than 7,500 L/day. Further detail to be included with the site plan application.



Typical developments will have lower actual loading compared to the conservative design loads as per the OBC.

Sewage System Design

It is anticipated that a series of buildings and associated roadways, parking spaces, and storage spaced will be constructed on the subject site in the future (i.e upon approval).

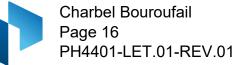
The theoretical design for this review consists of using a TDDSF of 10,000 L/day. Specific information will be provided under the site plan application stage.

In order to minimize the risk of long-term contamination of services, a typical minimum separation distance of 15 m is required between any drilled potable supply well and the closest distribution pipe or septic tank of a sewage system. Due to the hydrogeological sensitivity of the site, it is recommended that the separation distance be increased to 30 m. In addition, a minimum of 100 mm of imported or in-situ soil seal would be required to provide additional isolation due to the shallow overburden (<2 m).

The proposed development has significant development area available to allow appropriate separation between onsite private services and offsite private services. Based on the available space, the minimum regulatory and recommended separation distances can be easily attained on the subject site.

As building plans and design details were not available at the time of report preparation, a representative sewage system has been assigned to the proposed lot for the purpose of completing the study. A Class 4 sewage system with a fully raised absorption trench style leaching bed may be installed to service the proposed expansion. Assuming the aforementioned buildings, water closets, and employee shifts, the design sewage flow according to the Ontario Building Code would be 8,500 L/day with a conservative TDDSF of 10,000 L/day being used for design.

A minimum length of distribution pipe required for the leaching bed is determined by the formula QT/200, as per the OBC, where "Q" is the design sewage flow and "T" is the percolation rate of the leaching bed fill. Based on the design sewage flow of 10,000 L/d, a minimum distribution pipe length of 400 m would be required, assuming a percolation rate of the leaching bed fill used is 8 min/cm. As there is not enough native soil over the bedrock underlying the proposed site to utilize as a dispersal layer, a 100 mm soil seal will be required under the leaching bed/mantle area where less than 2 m of overburden is encountered. The 100 mm soil seal would have an estimated percolation rate of greater than 50 min/cm, therefore an imported sand mantle will be required. The leaching bed area shall be designed such that the loading rate does not exceed 4 L/m²/d. As such, for a daily sewage flow of 10,000 L, the leaching bed area required would be up to 2,500 m². The reader should be aware that numerous other types of Class 4 sewage systems could



potentially be used at the site. A sewage system using tertiary wastewater equipment would require a significantly reduced area, and potentially reduce the height.

A Class 4 sewage system with a conventional absorption trench style leaching bed can be easily accommodated for the proposed expansion due to the size of the subject site (approximately 20.22 ha). The potential leaching bed discussed to service the proposed development requires the greatest footprint of all of the OBC approved styles of beds. This type of bed has been selected for illustration purposes only and the reader should be aware that numerous other types of Class 4 sewage systems could potentially be used for the site.

Predictive Nitrate Impact Assessment

Nitrate is considered to be a critical parameter of concern when assessing impacts to groundwater quality downgradient of an onsite sewage system. MECP Procedure D-5-4 applies for the proposed development. For the purpose of this guideline, the Ontario Drinking Water Objective of 10 mg/L of nitrate is used as an indicator of groundwater impact potential.

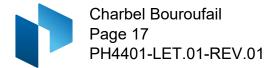
Under this guideline, where the lot size is one hectare or larger, a detailed impact assessment may not be required. It has been the City of Ottawa's policy that where the lot size of 0.8 ha or larger, a detailed assessment is typically not required since it is considered to be a low-risk development. The subject site has an area of 20.22 ha. As such, a detailed nitrate impact assessment (NIA) would not typically be necessary.

An NIA was completed below to corroborate our opinion that the property can adequately support the proposed expansion without having adverse impacts on the underlying bedrock aquifer should the minimum separation distances, well construction, and septic system be completed as per the recommendations and the OBC. The values shown in the Predictive Nitrate Impact Assessment attached to this report are summarized below.

Site area	20.22 ha
Impervious area (%)	57 %
Daily sewage flow	10 m³/d
(Value based on 1m ³ per day flow volume per residential lot)	
 Concentration of nitrate in effluent (Value based on typical effluent concentration) 	40 mg/L
Surplus Water (The surplus water value was estimated based on Environment Canada values with a soil type comprised of silt loam (Urban Lawns/Sha anthropogenic sources.)	

0.40

Combined infiltration factor based on:



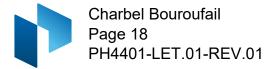
•	Topography infiltration factor	0.20
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- Soil texture infiltration factor 0.10 0.10
- Cover infiltration factor

The topography infiltration factor of 0.20 is based upon a rolling topography with an average slope between 2.8 to 3.8 m/km, taking into account the different topographies of the area. The soil texture infiltration factor was based upon an "tight impervious clay" to represent the bedrock with a value of 0.1 which is a conservative generalization based upon the site investigations and available geological mapping as the bedrock outcroppings were counted as impervious area for the above NIA calculation. The "cover infiltration factor" was calculated at 0.10 based upon the large open areas on site.

The calculation for a conventional septic system results in a predicted nitrate concentration of 9.37 mg/L nitrate for the subject site, using a value of 40 mg /L nitrate concentration within the effluent. This value was based upon a daily sewage flow of 10 m³ per day, as per the conservative assumption for future sewage discharge volumes.

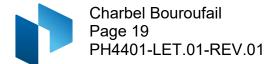
Based on the results of the predicted nitrate impact assessment, it is our opinion that the property can adequately support the current and future proposed additions without having an adverse impact on the underlying bedrock aquifer.



CONCLUSIONS

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

- □ The water supply aquifer intercepted by TW1 is considered to be adequate to support the water quantity demands for the proposed commercial development.
- The preferred water supply intercepted by TW1 contains a water supply that is potable and contains only elevated concentrations of hardness and TDS. The noted parameters can be treated with current readily available water conditioning equipment.
- □ The sodium concentration was measured to be above the 20 mg/L reporting limit and, as such, the Medical Officer of Health for the City of Ottawa should be informed to assist area physicians in the treatment of local residents on sodium reduced diets.
- A residential grade water softener is recommended to facilitate the removal of the hardness concentration if desired. 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.
- □ The results of the water supply assessment have provided satisfactory evidence that the water supply aquifer underlying the subject site can support the proposed development from both a quality and quantity perspective.
- □ The proposed development is sufficient in size to accommodate new sewage systems and meet all the regulatory separation criteria.
- Future wells should be constructed in accordance with O.Reg. 903 and be installed similar to the well construction of TW1. Future wells should be installed with casing lengths of 12 m (double the standard length) and have a minimum of 30 m separation from all potential sources of contamination.



- □ It is recommended that new wells be constructed upgradient of any proposed or existing septic systems on site, where possible.
- The construction of an on-site sewage system should not affect the performance or water quality associated with a drilled well, contingent upon the on-site sewage system being designed in accordance with the Ontario Building Code (i.e properly sized sewage system and conforming to all separation distances) with a **minimum 100 mm soil seal provided beneath the leaching bed/mantle area**. A tertiary treatment system could be used to provide higher quality effluent and a reduced site footprint. A tertiary treatment system would require an annual maintenance contract.
- □ A Sewage System Permit and Building Permit needs to be issued for the site prior to the commencement of construction.
- The results of the Hydrogeological Report and Terrain Analysis have provided satisfactory evidence that the subject site can support the proposed expansion to the existing commercial with respect to water quality, quantity and sewage system placement.

We trust that the current submission satisfies your immediate requirements.

Best Regards,

Paterson Group Inc.

Kevin A Pickard, P.Eng.

Attachments:

- □ Figure 1 Key Plan
- MECP Water Well Records
- Eurofins Certificate of Analysis
- AQTESOLV Pumping Test Analysis Reports
- Nitrate Impact Assessment Calculations
- Langelier Saturation Index (LSI) Calculation
- □ Paterson Drawing PG5783-1 Test Hole Location Plan
- Paterson Soil Profile and Data Sheets
- □ McRobie CFT Site Plan Zoning Amendment Drawing SP-A01

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

Ottawa Laboratory 28 Concourse Gate Ottawa – Ontario – K2E 7T7 Tel: (613) 226-7381

List of Services

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



Aug. 21. 2024 M. S. KILLAM 100221103 HOLMICE OF OMTATIO

Michael Killam, P.Eng.

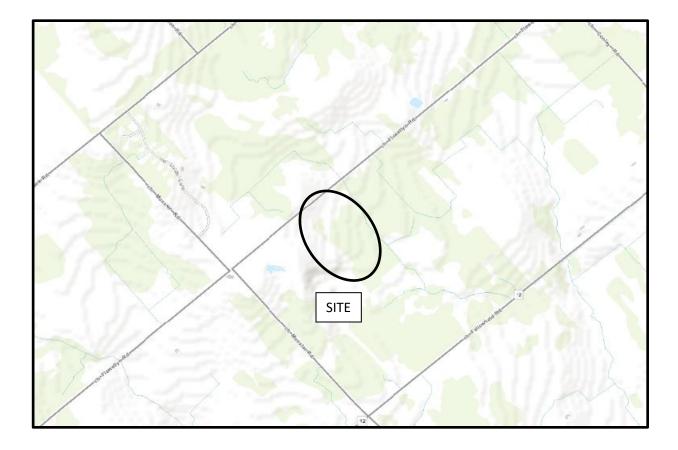


FIGURE 1

KEY PLAN



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Environment Testing

Client:	Paterson Group		Report Number:	1997742
	9 Auriga Dr		Date Submitted:	2023-06-02
	Nepean, ON		Date Reported:	2023-06-14
	K2E 7T9		Project:	PH4401
Attention:	Mr. Alex Schopf		COC #:	908261
PO#:	57632			
Invoice to:	Paterson Group	Page 1 of 15		

Dear Alex Schopf:

🛟 eurofins

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:

Raheleh Zafari RZafari2023.06.1 414:16:42 -04'00'

APPROVAL:

Raheleh Zafari, Environmental Chemist

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

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

Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) is licensed by the Ontario Ministry of the Environment, Conservation, and Parks (MECP) for specific tests in drinking water (license #2318). A copy of the license is available upon request.

Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) is accredited by the Ontario Ministry of Agriculture, Food, and Rural Affairs for specific tests in agricultural soils.

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

Client:	Paterson Group
	9 Auriga Dr
	Nepean, ON
	K2E 7T9
Attention:	Mr. Alex Schopf
PO#:	57632
Invoice to:	Paterson Group

Report Number:	1997742
Date Submitted:	2023-06-02
Date Reported:	2023-06-14
Project:	PH4401
COC #:	908261

Group	Analyte	MRL	Units	Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D. Guideline	1689830 GW 2023-06-01 GW1	1689831 GW 2023-06-01 GW2
Anions	Cl		mg/L	AO 250	69	72
Anions	G	0.10	mg/L	MAC 1.5	0.68	0.72
	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	53	55
General Chemistry	Alkalinity as CaCO3	5	mg/L	OG 30-500	278	276
	Colour (Apparent)	2	TCU	AO 5	5	5
	Conductivity	5	uS/cm	7.00	777	769
	DOC	0.5	mg/L	AO 5	1.8	1.7
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	Phenols	0.001	mg/L		<0.001	<0.001
	\$2-	0.01	mg/L	AO 0.05	<0.01	<0.01
	TDS (COND - CALC)	1	mg/L	AO 500	505*	500
	Turbidity	0.1	NTU	AO 5	1.0	0.4
Hardness	Hardness as CaCO3	1	mg/L	OG 80-100	254*	261*
Hydrocarbons	F1 (C6-C10)	20	ug/L		<20	<20
-	F1-BTEX (C6-C10)	20	ug/L		<20	<20
	F2 (C10-C16)	20	ug/L		<20	<20
	F3 (C16-C34)	50	ug/L		<50	<50
	F4 (C34-C50)	50	ug/L		<50	<50
Indices/Calc	Ion Balance	0.01	-		0.99	0.99
Metals	Ag	0.0001	mg/L		<0.0001	<0.0001
	AI	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	0.46	0.44

Guideline = ODWSOG

* = Guideline Exceedence

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Certificate of Analysis

Environment Testing

Client:	Paterson Group
	9 Auriga Dr
	Nepean, ON
	K2E 7T9
Attention:	Mr. Alex Schopf
PO#:	57632
Invoice to:	Paterson Group

Report Number:	1997742
Date Submitted:	2023-06-02
Date Reported:	2023-06-14
Project:	PH4401
COC #:	908261

Group	A set vís	MDI	Unite	Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D. Guideline	1689830 GW 2023-06-01 GW1	1689831 GW 2023-06-01 GW2
Group	Analyte	MRL	Units			
Metals	Ba	0.01	mg/L	MAC 1.0	0.05	0.06
	Be	0.0005	mg/L		<0.0005	<0.0005
	Са	1	mg/L		54	55
	Cd	0.0001	mg/L	MAC 0.005	<0.0001	<0.0001
	Со	0.0002	mg/L		<0.0002	<0.0002
	Cr	0.001	mg/L	MAC 0.05	<0.001	<0.001
	Cu	0.001	mg/L	AO 1	<0.001	<0.001
	Fe	0.03	mg/L	AO 0.3	0.14	0.14
	Hg	0.0001	mg/L	MAC 0.001	<0.0001	<0.0001
	K	1	mg/L		5	5
	Mg	1	mg/L		29	30
	Mn	0.01	mg/L	AO 0.05	<0.01	0.01
	Мо	0.005	mg/L		<0.005	<0.005
	Na	1	mg/L	AO 200	77	75
	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		4.50	4.56
	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

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Project:	PH4401
COC #:	908261

				r		
				Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.	1689830 GW 2023-06-01 GW1	1689831 GW 2023-06-01 GW2
Group	Analyte	MRL	Units	Guideline		
Nutrients	N-NH3	0.020	mg/L		0.210	0.209
	Total Kjeldahl Nitrogen	0.100	mg/L		0.309	0.286
PAH	1+2-methylnaphthalene	0.1	ug/L			<0.1
	1-methylnaphthalene	0.1	ug/L			<0.1
	2-methylnaphthalene	0.1	ug/L			<0.1
	Acenaphthene	0.1	ug/L			<0.1
	Acenaphthylene	0.1	ug/L			<0.1
	Anthracene	0.1	ug/L			<0.1
	Benzo(a)anthracene	0.1	ug/L			<0.1
	Benzo(a)pyrene	0.01	ug/L	MAC 0.01		<0.01
	Benzo(b)fluoranthene	0.05	ug/L			< 0.05
	Benzo(g,h,i)perylene	0.1	ug/L			<0.1
	Benzo(k)fluoranthene	0.05	ug/L			< 0.05
	Chrysene	0.05	ug/L			< 0.05
	Dibenzo(a,h)anthracene	0.1	ug/L			<0.1
	Fluoranthene	0.1	ug/L			<0.1
	Fluorene	0.1	ug/L			<0.1
	Indeno(1,2,3-c,d)pyrene	0.1	ug/L			<0.1
	Naphthalene	0.1	ug/L			<0.1
	Phenanthrene	0.1	ug/L			<0.1
	Pyrene	0.1	ug/L			<0.1
PHC Surrogate	Alpha-androstrane	0	%		106	105
Subcontract-Inorg	Tannin & Lignin	0.5	mg/L		<0.5	<0.5
VOCs Surrogates	1,2-dichloroethane-d4	0	%		116	119
-	4-bromofluorobenzene	0	%		104	101

Guideline = ODWSOG

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Report Number:	1997742
Date Submitted:	2023-06-02
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Project:	PH4401
COC #:	908261

Group Analyte MRL Units Guideline 2023-06-01 2023-06-01 VOCs Surogates Toluene-d8 0 % 98 97 Volatiles 1,1,1,2-tetrachloroethane 0.5 ug/L <0.4 <0.4 1,1,2-zeterachloroethane 0.4 ug/L <0.4 <0.4 <0.4 1,1,2-dichloroethane 0.5 ug/L MAC 14 <0.5 <0.5 1,1-dichloroethane 0.5 ug/L MAC 200 <0.4 <0.4 1,2-dichloroptongane 0.5 ug/L MAC 20.5 <0.5 <0.5 1,2-dichloroptongane 0.5 ug/L MAC 5 <0.5 <0.5 1,3-bichloroptongylene (cis+trans) 0.5 ug/L <0.4 <0.4 <0.4<							
VOCs Surrogates Toluene-d8 0 % 98 97 Volatiles 1,1,1,2-tetrachloroethane 0.5 ug/L <0.5 <0.5 1,1,1,2-tetrachloroethane 0.4 ug/L <0.4 <0.4 <0.4 1,1,2,2-tetrachloroethane 0.5 ug/L <0.4 <0.4 <0.4 1,1,2-trichloroethane 0.4 ug/L <0.4 <0.4 <0.4 1,1,2-trichloroethane 0.4 ug/L <0.4 <0.4 <0.4 1,1-dichloroethane 0.4 ug/L <0.4 <0.4 <0.4 1,1-dichloroethane 0.5 ug/L MAC 14 <0.5 <0.5 1,2-dichloropropane 0.5 ug/L MAC 200 <0.4 <0.4 1,2-dichloropropane 0.5 ug/L <0.5 <0.5 <0.5 1,3-dichlorobenzene 0.4 ug/L <0.4 <0.4 <0.4 1,3-dichloropenzene 0.4 ug/L <0.4 <0.4 <0.4 1,3-dichloropenzene<					Sample Matrix Sample Type Sampling Date Sample I.D.	GW 2023-06-01	GW 2023-06-01
Volatiles 1,1,2-tetrachloroethane 0.5 ug/L <0.5	•		MRL		Guideline		
1,1,1-trichloroethane0.4ug/L<0.4<0.4<0.41,1,2,2-tetrachloroethane0.5ug/L<0.5	•		-				
1,1,2,2-tetrachloroethane0.5 ug/L <0.5<0.51,1,2-trichloroethane0.4 ug/L <0.4	Volatiles			ug/L			
1,1,2-trichloroethane 0.4 ug/L <0.4 <0.4 1,1-dichloroethane 0.4 ug/L <0.4			0.4	ug/L		<0.4	<0.4
Interference Interference<		1,1,2,2-tetrachloroethane	0.5	ug/L		<0.5	<0.5
1,1-dichloroethylene 0.5 ug/L MAC 14 <0.5 <0.5 1,2-dichlorobenzene 0.4 ug/L MAC 200 <0.4		1,1,2-trichloroethane	0.4	ug/L		<0.4	<0.4
Interview Order		1,1-dichloroethane	0.4	ug/L		<0.4	<0.4
1,2-dichloroethane 0.5 ug/L IMAC 5 <0.5 <0.5 1,2-dichloropropane 0.5 ug/L <0.5		1,1-dichloroethylene	0.5	ug/L	MAC 14	<0.5	<0.5
1,2-dichloropropane 0.5 ug/L <0.5 <0.5 1,3,5-trimethylbenzene 0.3 ug/L <0.3		1,2-dichlorobenzene	0.4	ug/L	MAC 200	<0.4	<0.4
1,3,5-trimetpylbenzene 0.3 ug/L <0.3 0.3 1,3,5-trimetpylbenzene 0.4 ug/L <0.4		1,2-dichloroethane	0.5	ug/L	IMAC 5	<0.5	<0.5
1,3-dichlorobenzene 0.4 ug/L <0.4 <0.4 1,3-dichlorobenzene 0.4 ug/L <0.5		1,2-dichloropropane	0.5	ug/L		<0.5	<0.5
1,3-Dichloropropylene (cis+trans) 0.5 ug/L MAC 5 <0.5 <0.5 1,4-dichlorobenzene 0.4 ug/L MAC 5 <0.4		1,3,5-trimethylbenzene	0.3	ug/L		<0.3	<0.3
1,4-dichlorobenzene 0.4 ug/L MAC 5 <0.4 <0.4 Acetone 5 ug/L MAC 5 <5		1,3-dichlorobenzene	0.4	ug/L		<0.4	<0.4
Acetone 5 ug/L <5 <5 Benzene 0.5 ug/L MAC 1 <0.5		1,3-Dichloropropylene (cis+trans)	0.5	ug/L		<0.5	<0.5
Acetone 5 ug/L <5 <5 Benzene 0.5 ug/L MAC 1 <0.5		1,4-dichlorobenzene	0.4	ug/L	MAC 5	<0.4	<0.4
Bromodichloromethane 0.3 ug/L <0.3 <0.3 <0.3 Bromoform 0.4 ug/L <0.4		Acetone	5			<5	<5
Bromoform 0.4 ug/L <0.4 <0.4 Bromomethane 0.5 ug/L <0.5		Benzene	0.5	ug/L	MAC 1	<0.5	<0.5
Bromomethane 0.5 ug/L <0.5 <0.5 c-1,2-Dichloroethylene 0.4 ug/L <0.4		Bromodichloromethane	0.3	ug/L		<0.3	<0.3
C-1,2-Dichloroethylene 0.4 ug/L <0.4 <0.4 C-1,3-Dichloropropylene 0.5 ug/L <0.5		Bromoform	0.4	ug/L		<0.4	<0.4
c-1,3-Dichloropropylene 0.5 ug/L <0.5 <0.5 Carbon Tetrachloride 0.2 ug/L MAC 2 <0.2		Bromomethane	0.5	ug/L		<0.5	<0.5
Carbon Tetrachloride 0.2 ug/L MAC 2 <0.2 <0.2 Chloroethane 0.5 ug/L <0.5		c-1,2-Dichloroethylene	0.4	ug/L		<0.4	<0.4
Chloroethane 0.5 ug/L <0.5 <0.5 Chloroform 0.5 ug/L <0.5		c-1,3-Dichloropropylene	0.5	ug/L		<0.5	<0.5
Chloroform 0.5 ug/L <0.5 <0.5		Carbon Tetrachloride	0.2	ug/L	MAC 2	<0.2	<0.2
Chloroform 0.5 ug/L <0.5 <0.5		Chloroethane	0.5	ug/L		<0.5	<0.5
Dibromochloromethane 0.3 ug/L <0.3 <0.3		Chloroform	0.5	ug/L		<0.5	<0.5
		Dibromochloromethane	0.3	ug/L		<0.3	<0.3

Guideline = ODWSOG

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Certificate of Analysis

Environment Testing

Client:	Paterson Group
	9 Auriga Dr
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	K2E 7T9
Attention:	Mr. Alex Schopf
PO#:	57632
Invoice to:	Paterson Group

Report Number:	1997742
Date Submitted:	2023-06-02
Date Reported:	2023-06-14
Project:	PH4401
COC #:	908261

				Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.	1689830 GW 2023-06-01 GW1	1689831 GW 2023-06-01 GW2
Group	Analyte	MRL	Units	Guideline		
Volatiles	Dichlorodifluoromethane	0.5	ug/L		<0.5	<0.5
	Dichloromethane	4.0	ug/L	MAC 50	<4.0	<4.0
	Ethylbenzene	0.5	ug/L	MAC 140	<0.5	<0.5
	Ethylene Dibromide	0.2	ug/L		<0.2	<0.2
	Hexane	5	ug/L		<5	<5
	m/p-xylene	0.4	ug/L		<0.4	<0.4
	Methyl Ethyl Ketone (MEK)	2	ug/L		<2	<2
	Methyl Isobutyl Ketone (MIBK)	5	ug/L		<5	<5
	Methyl Tert Butyl Ether (MTBE)	2	ug/L	AO 15	<2	<2
	Monochlorobenzene	0.5	ug/L	MAC 80	<0.5	<0.5
	o-xylene	0.4	ug/L		<0.4	<0.4
	Styrene	0.5	ug/L		<0.5	<0.5
	t-1,2-Dichloroethylene	0.4	ug/L		<0.4	<0.4
	t-1,3-Dichloropropylene	0.5	ug/L		<0.5	<0.5
	Tetrachloroethylene	0.3	ug/L	MAC 10	<0.3	<0.3
	Toluene	0.4	ug/L	MAC 60	<0.4	<0.4
	Trichloroethylene	0.3	ug/L	MAC 5	<0.3	<0.3
	Trichlorofluoromethane	0.5	ug/L		<0.5	<0.5
	Vinyl Chloride	0.2	ug/L	MAC 1	<0.2	<0.2
	Xylene; total	0.5	ug/L	MAC 90	<0.5	<0.5

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Environment Testing

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Report Number:	1997742
Date Submitted:	2023-06-02
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Project:	PH4401
COC #:	908261

QC Summary

Analyte	Blank	QC % Rec	QC Limits
Run No442075Analysis/Extraction Date2023-06-07AnalystMethodP8270			
Methlynaphthalene, 1-	<0.1 ug/L	56	50-140
Methlynaphthalene, 2-	<0.1 ug/L	56	50-140
Acenaphthene	<0.1 ug/L	58	50-140
Acenaphthylene	<0.1 ug/L	58	50-140
Anthracene	<0.1 ug/L	54	50-140
Benz[a]anthracene	<0.1 ug/L	54	50-140
Benzo[a]pyrene	<0.01 ug/L	50	50-140
Benzo[b]fluoranthene	<0.05 ug/L	72	50-140
Benzo[ghi]perylene	<0.1 ug/L	62	50-140
Benzo[k]fluoranthene	<0.05 ug/L	58	50-140
Chrysene	<0.05 ug/L	56	50-140
Dibenz[a h]anthracene	<0.1 ug/L	58	50-140
Fluoranthene	<0.1 ug/L	58	50-140
Fluorene	<0.1 ug/L	56	50-140
Indeno[1 2 3-cd]pyrene	<0.1 ug/L	60	50-140
Naphthalene	<0.1 ug/L	58	50-140

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Environment Testing

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	9 Auriga Dr
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Attention:	Mr. Alex Schopf
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Report Number:	1997742
Date Submitted:	2023-06-02
Date Reported:	2023-06-14
Project:	PH4401
COC #:	908261

QC Summary

Analyte	Blank	QC % Rec	QC Limits
Phenanthrene	<0.1 ug/L	52	50-140
Pyrene	<0.1 ug/L	58	50-140
Run No 442783 Analysis/Extraction Date 20 Method AMBCOLM1)23-06-03 Ana	lyst DRA	
Escherichia Coli			
Total Coliforms			
Run No 442785 Analysis/Extraction Date 20 Method C SM2130B)23-06-02 Ana	lyst ME	
Turbidity	<0.1 NTU	100	70-130
Run No 442824 Analysis/Extraction Date 20 Method C SM2120C)23-06-05 Ana	lyst AaN	
Colour (Apparent)	<2 TCU	105	90-110
Run No442864Analysis/Extraction Date20MethodEPA8260)23-06-04 Ana	lyst PJ	
Tetrachloroethane, 1,1,1,2-	<0.5 ug/L	88	60-130
Trichloroethane, 1,1,1-	<0.4 ug/L	81	60-130
Tetrachloroethane, 1,1,2,2-	<0.5 ug/L	109	60-130
Trichloroethane, 1,1,2-	<0.4 ug/L	87	60-130
Dichloroethane, 1,1-	<0.4 ug/L	102	60-130

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Environment Testing

Paterson Group
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Project:	PH4401
COC #:	908261

		1	1
Analyte	Blank	QC % Rec	QC Limits
Dichloroethylene, 1,1-	<0.5 ug/L	91	60-130
Dichlorobenzene, 1,2-	<0.4 ug/L	104	60-130
Dichloroethane, 1,2-	<0.5 ug/L	82	60-130
Dichloropropane, 1,2-	<0.5 ug/L	82	60-130
1,3,5-trimethylbenzene	<0.3 ug/L	109	60-130
Dichlorobenzene, 1,3-	<0.4 ug/L	100	60-130
Dichloropropene,1,3-			
Dichlorobenzene, 1,4-	<0.4 ug/L	100	60-130
Acetone	<5 ug/L	80	60-130
Benzene	<0.5 ug/L	84	60-130
Bromodichloromethane	<0.3 ug/L	102	60-130
Bromoform	<0.4 ug/L	84	60-130
Bromomethane	<0.5 ug/L	101	60-130
Dichloroethylene, 1,2-cis-	<0.4 ug/L	110	60-130
Dichloropropene,1,3-cis-	<0.5 ug/L	102	60-130
Carbon Tetrachloride	<0.2 ug/L	83	60-130
Chloroethane	<0.5 ug/L	103	60-130
Chloroform	<0.5 ug/L	103	60-130

QC Summary

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Environment Testing

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9 Auriga Dr
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COC #:	908261

Analyte	Blank	QC % Rec	QC Limits
Dibromochloromethane	<0.3 ug/L	83	60-130
Dichlorodifluoromethane	<0.5 ug/L	92	60-130
Methylene Chloride	<4.0 ug/L	107	60-130
Ethylbenzene	<0.5 ug/L	80	60-130
Ethylene dibromide	<0.2 ug/L	89	60-130
Petroleum Hydrocarbons F1	<20 ug/L	92	60-140
Hexane (n)	<5 ug/L	100	60-130
m/p-xylene	<0.4 ug/L	102	60-130
Methyl Ethyl Ketone	<2 ug/L	120	60-130
Methyl Isobutyl Ketone	<5 ug/L	110	60-130
Methyl tert-Butyl Ether (MTBE)	<2 ug/L	100	60-130
Chlorobenzene	<0.5 ug/L	83	60-130
o-xylene	<0.4 ug/L	102	60-130
Styrene	<0.5 ug/L	99	60-130
Dichloroethylene, 1,2-trans-	<0.4 ug/L	103	60-130
Dichloropropene,1,3-trans-	<0.5 ug/L	96	60-130
Tetrachloroethylene	<0.3 ug/L	110	60-130
Toluene	<0.4 ug/L	108	60-130

QC Summary

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Environment Testing

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1997742
2023-06-02
2023-06-14
PH4401
908261

QC Summary

Analyte	Blank	QC % Rec	QC Limits
Trichloroethylene	<0.3 ug/L	99	60-130
Trichlorofluoromethane	<0.5 ug/L	110	60-130
Vinyl Chloride	<0.2 ug/L	99	60-130
Run No 442872 Analysis/Extraction Date 20 Method EPA 8260)23-06-05 Ana	l iyst PJ	
Xylene Mixture			
Run No 442894 Analysis/Extraction Date 20 Method CCME O.Reg 153/04	023-06-05 Ana	lyst PJ	
Petroleum Hydrocarbons F1-BTEX			
Run No 442898 Analysis/Extraction Date 20 Method SM2320,2510,4500H/F)23-06-05 Ana	l yst AsA	
Alkalinity (CaCO3)	<5 mg/L	97	90-110
Conductivity	<5 uS/cm	99	90-110
F	<0.10 mg/L	99	90-110
рН		99	90-110
Run No442900Analysis/Extraction Date20MethodSM 5310B	023-06-05 Ana	l yst AsA	
DOC	<0.5 mg/L	104	80-120

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Environment Testing

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1997742
2023-06-02
2023-06-14
PH4401
908261

QC Summary

Analyte	Blank	QC % Rec	QC Limits
Run No 442945 Analysis/Extraction Date 20 Method SM5530D/EPA420.2)23-06-06 Ana	lyst IP	
Phenols	<0.001 mg/L	103	50-120
Run No442969Analysis/Extraction Date20MethodEPA 351.2	023-06-06 Ana	lyst SKH	
Total Kjeldahl Nitrogen	<0.100 mg/L	110	70-130
Run No 442981 Analysis/Extraction Date 20 Method SM 4110	023-06-06 Ana	lyst AaN	
Chloride	<1 mg/L	120	90-110
N-NO2	<0.10 mg/L	104	90-110
N-NO3	<0.10 mg/L	99	90-110
SO4	<1 mg/L	100	90-110
Run No 442983 Analysis/Extraction Date 2023-06-07 Analyst R Method EPA 350.1			
N-NH3	<0.020 mg/L	110	80-120
Run No442988Analysis/Extraction Date20MethodEPA 200.8	023-06-06 Ana	lyst SD	
Silver	<0.0001 mg/L	85	80-120
Aluminum	<0.01 mg/L	94	80-120

Guideline = ODWSOG

* = Guideline Exceedence

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

Environment Testing

Client:	Paterson Group
	9 Auriga Dr
	Nepean, ON
	K2E 7T9
Attention:	Mr. Alex Schopf
PO#:	57632
Invoice to:	Paterson Group

🛟 eurofins

Report Number:	1997742
Date Submitted:	2023-06-02
Date Reported:	2023-06-14
Project:	PH4401
COC #:	908261

Analyte	Blank	QC % Rec	QC Limits
Arsenic	<0.001 mg/L	89	80-120
Boron (total)	<0.01 mg/L	101	80-120
Barium	<0.01 mg/L	87	80-120
Beryllium	<0.0005 mg/L	104	80-120
Cadmium	<0.0001 mg/L	99	80-120
Cobalt	<0.0002 mg/L	96	80-120
Chromium Total	<0.001 mg/L	95	80-120
Copper	<0.001 mg/L	96	80-120
Iron	<0.03 mg/L	89	80-120
Mercury	<0.0001 mg/L	95	80-120
Manganese	<0.01 mg/L	96	80-120
Molybdenum	<0.005 mg/L	87	80-120
Nickel	<0.005 mg/L	98	80-120
Lead	<0.001 mg/L	96	80-120
Antimony	<0.0005 mg/L	106	80-120
Selenium	<0.001 mg/L	97	80-120
Strontium	<0.001 mg/L	88	80-120
Thallium	<0.0001 mg/L	93	80-120

QC Summary

Guideline = ODWSOG

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Environment Testing

Paterson Group
9 Auriga Dr
Nepean, ON
K2E 7T9
Mr. Alex Schopf
57632
Paterson Group

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Report Number:	1997742
Date Submitted:	2023-06-02
Date Reported:	2023-06-14
Project:	PH4401
COC #:	908261

QC Summary

Analyte	Blank	QC % Rec	QC Limits
Uranium	<0.001 mg/L	88	80-120
Vanadium	<0.001 mg/L	93	80-120
Zinc	<0.01 mg/L	102	80-120
Run No 443014 Analysis/Extraction Date 2023-06-07 Analyst SS Method CCME 0.Reg 153/04 SS			
Petroleum Hydrocarbons F2	<20 ug/L	80	60-140
Petroleum Hydrocarbons F3	<50 ug/L	80	60-140
Petroleum Hydrocarbons F4	<50 ug/L	80	60-140
Run No 443022 Analysis/Extraction Date 20 Method M SM3120B-3500C	123-06-07 Ana	alyst ZS	
Calcium	<1 mg/L	100	90-110
Potassium	<1 mg/L	105	87-113
Magnesium	<1 mg/L	100	76-124
Sodium	<1 mg/L	103	82-118
Run No 443045 Analysis/Extraction Date 20 Method C SM4500-S2-D	123-06-07 Ana	alyst AaN	
S2-	<0.01 mg/L	82	80-120
Run No 443049 Analysis/Extraction Date 20 Method C SM2340B	23-06-07 Ana	alyst SKH	

Guideline = ODWSOG

* = Guideline Exceedence

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

Environment Testing

Client:	Paterson Group
	9 Auriga Dr
	Nepean, ON
	K2E 7T9
Attention:	Mr. Alex Schopf
PO#:	57632
Invoice to:	Paterson Group

🛟 eurofins

Report Number:	1997742
Date Submitted:	2023-06-02
Date Reported:	2023-06-14
Project:	PH4401
COC #:	908261

QC Summary

Analyte	Blank	QC % Rec	QC Limits
Hardness as CaCO3			
Ion Balance			
TDS (COND - CALC)			
Run No 443125 Analysis/Extraction Date 2 Method P 8270	023-06-08 Ana	lyst RG	
1+2-methylnaphthalene			
Run No 443384 Analysis/Extraction Date 2 Method SUBCONTRACT-CA-INORG	023-06-13 Ana	ilyst AET	
Tannin & Lignin			

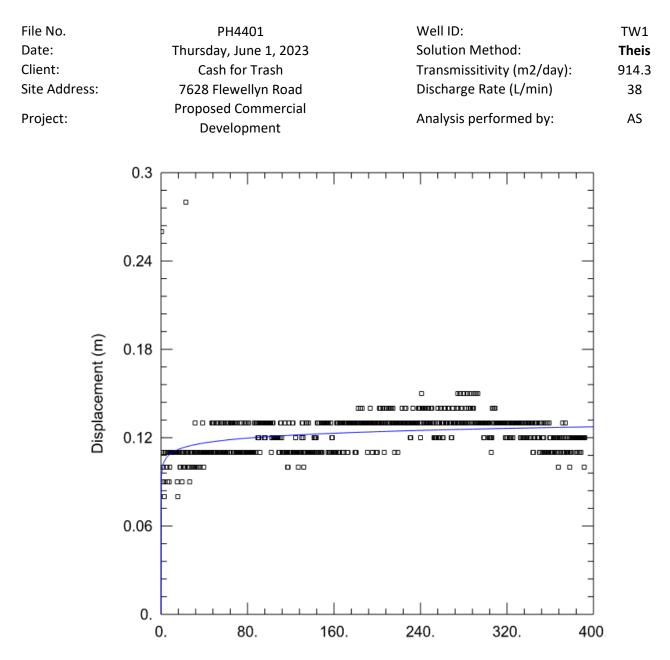
Guideline = ODWSOG

* = Guideline Exceedence

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

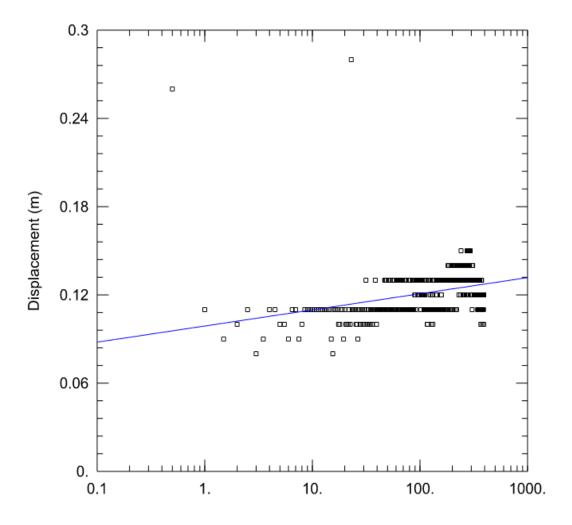
PH4401-LET.01

Pumping Test Analysis Report



Pumping Test Analysis Report

File No.	PH4401	Well ID:	TW1
Date:	Thursday, June 1, 2023	Solution Method:	Cooper-Jacob
Client:	Cash for Trash	Transmissitivity (m2/day):	914.3
Site Address:	7628 Flewellyn Road	Discharge Rate (L/min)	18.75
Project:	Proposed Commercial Development	Analysis performed by:	AS



Pumping Test Analysis Report

File No.	PH4401
Date:	Thursday, June 1, 2023
Client:	Cash for Trash
Site Address:	7628 Flewellyn Road
Project:	Proposed Commercial
Troject.	Development

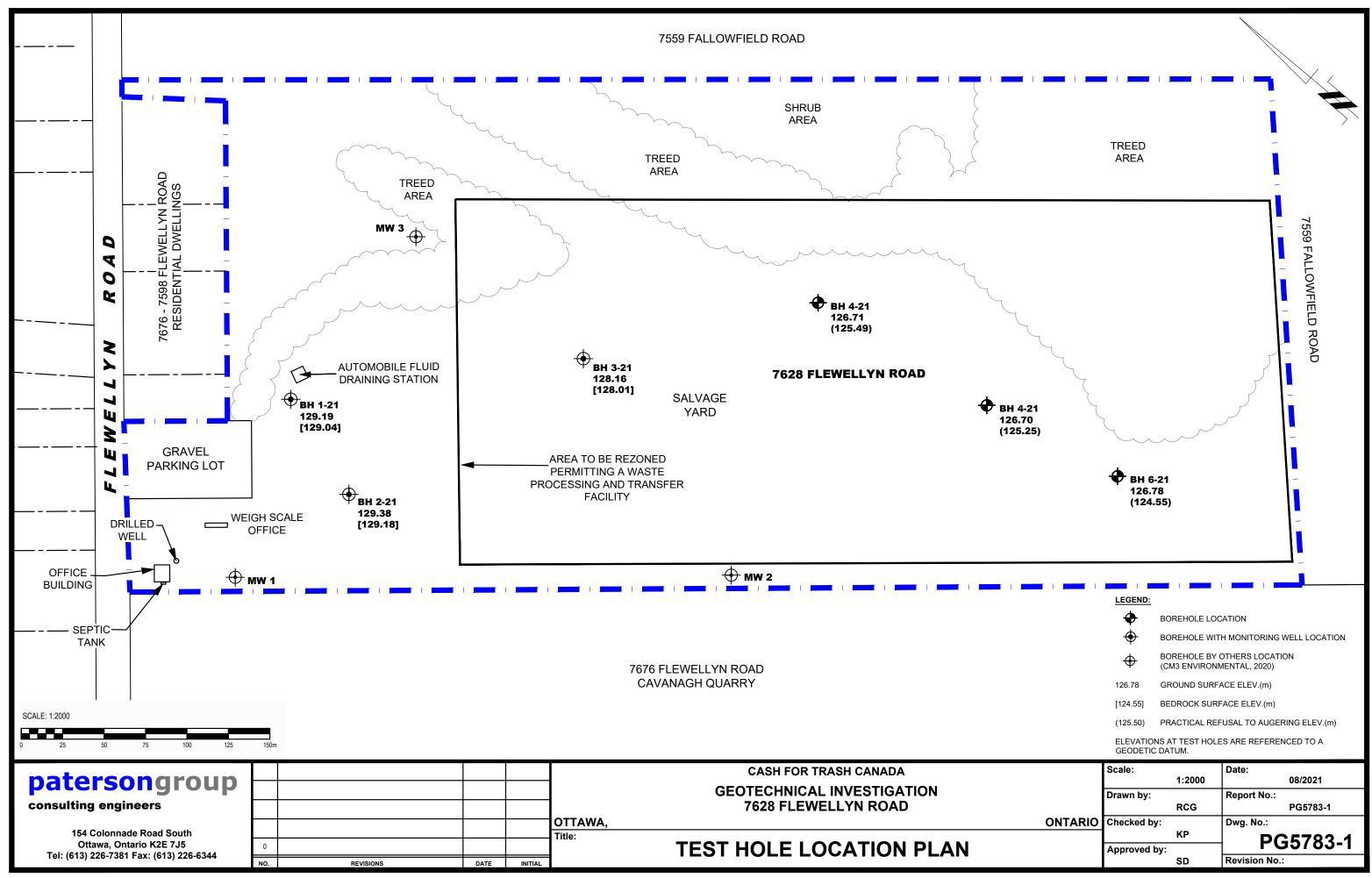
Summary Table:		
Solution Method:	Well ID:	Transmissitivity (m2/day):
Theis	TW1	914.3
Cooper-Jacob	TW1	914.3
Average:		914.30

patersongroup 7628 Flewellyn Road, Stittsville, ON

PREDICTIVE NITRATE IMP	PACT ASSESSI	EMENT
Infiltration Factors		
Topography	0.20	
Soil	0.10	
Cover	0.10	
Total	0.40	
Site Characteristics		
Area of Site :	202234.4	m ²
Assumed Impervious Bedrock Outcropping	18204	m ²
Cash for Trash buildings, park lot PLUS Outdoor Metal Storage	96606	m ²
Bedrock Outcropping plus Cash for Trash site	114810	m²
Impervious Area	114810	m²
Percent Impervious Area =	57	%
Infiltration Area =	87424	m²
Septic Effluent		
Concentration of Effluent (Cs) =	40	mg/L
Daily Sewage Flow (Qs)=	10	m ³
See Notes below.		
Infiltration Calculation		
Nitrate concentration in precipitation $(C_i) =$	0	mg/L
Surplus Water (Environment Canada)	341	mm/yr
Factored Water Surplus =	136	mm/yr
Infiltration % due to stormwater management measures	-	%
Infiltration rate from stormwater management measures =	0	mm/yr
Infiltration Flow Entering the System (Q _i) =	33	m³/day
Mass Balance Model (MOEE, 1995)		
$C_{T} = (Q_{b}C_{b}+Q_{e}C_{e}+Q_{i}C_{i})/(Q_{b}+Q_{e}+Q_{i}) = CU$	mulative Nitrate Concentration	1
Q_b = flow entering the system across the upgradient area	0	m³/day
C _b = background nitrate concentration	0	mg/L
Q_e = flow entering the system from the septic drainfield	10	m³/day
C_{e} = concentration of nitrates in the septic effluent	40	mg/L
Q_i = flow entering the system from infiltration	33	m³/day
C _i = Concentration of nitrates in the infiltrate	0	mg/L
0	C _T = 9.37	mg/L
Notes: Site characteristic values were measured as approximate val volume was calculted by Paterson Group.	ues from the available site plar	n. Daily Sewage Flow

7826 Flewellyn Road PH4401

Alkalinity	276	D	2.44			
Temp.	13	pHs =	7.346631847			
Longe	liar Caturatian Inday /LC	N) Colouistion	(1			
Lange	elier Saturation Index (LS	SI) 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	5 CaCO3] - 0.4			
		D = Log10 [alkalini	ty as CaCO3]			
	_	LS	6l = <u>0.7</u>			
LSI	Effect	L	SI = 0.7			
LSI 0.5 to 2	Effect Water is super saturated and tends to precipi					
-		itate a scale layer of calcium carbonate	(scale forming but non-corrosive)	ve).		
0.5 to 2	Water is super saturated and tends to precipi	itate a scale layer of calcium carbonate	(scale forming but non-corrosive) (slightly scale forming and corrosi			
0.5 to 2 0 to 0.5	Water is super saturated and tends to precipi Water is super saturated and tends to precipi	itate a scale layer of calcium carbonate itate a scale layer of calcium carbonate m carbonate. A scale layer of calcium car	scale forming but non-corrosive) (slightly scale forming and corrosi bonate is neither precipitated non			



			-			
31G/4e	*** **					
$UT_{1} = \frac{1}{8} \begin{bmatrix} 2 & 4 & 2 & 4 & 1 & 1 & -3 & 0 \end{bmatrix} = \begin{bmatrix} 2 & 4 & 2 & 4 & 1 & 1 & -3 & 0 \end{bmatrix} = \begin{bmatrix} 2 & 4 & 2 & 4 & 1 & 1 & -3 & 0 \end{bmatrix} = \begin{bmatrix} 2 & 4 & 2 & 4 & 1 & 1 & -3 & 0 \end{bmatrix} = \begin{bmatrix} 2 & 4 & 2 & 4 & 1 & 1 & -3 & 0 \end{bmatrix}$					<u>15 Nº</u> RECEIV	JE D
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Basin 215 Department of I	Mines, Provin	ice of Oi	ntario		GEOLOGICAL DEPARTMENT (BRANCH
Water V	Vell	Red	cord		DEPANTMENT	
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Construct Territorial District Carlo Tan					loun	
	own		S little tone		lle Car	κ
Date Completed						
(day) (month) (year)			,			
Pipe and Casing Record			Pumping	Test		
Casing diameter (s)	Date		•••••			••••
Casing diameter(s).	Static level.	-				
Type of screen]					
Length of screen	1					
Is well a gravel-wall type?					d level	
W	ater Record					
The second second	·····		Dep	th(s)	Kind of	No. of Feet
Kind (fresh or mineral).	zel		to V	ater ion(s)	Water	Water Rises
Appearance (clear, cloudy, coloured).				1	Push	47'
For what purpose(s) is the water to be used?	use			<	Part	
•						
How far is well from possible source of contamination?	7.5 . ya	• • • • • • • • •				
What is the source of contamination?	de of water	• • • • • • • • • • • • • • • • • • •	•••••		· ·	
Well Log			· · · · ·			
Overburden and Bedrock Record	From	То		Lo	cation of Well	
8 from and 48 of rock	0 ft.	ft.		-	below show dist	
					road and lot lir h by arrow.	ie. In-
	0	0	uica	le nort	n by arrow.	
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				1/2 mil		V
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			IL ILO	Xe		
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Situation: Is well on upland, in valley, or on hillside?	Rillse	de	·	•	· · · · · · · · · · · · · · · · · · ·	
Drilling Firm.	1	•••••••••••••			•••••••••	
Address Stattanlle ant	—			• • • • • •		
Name of Driller Aam		Addres	is an	n.e	291	•••••
Date	•••••	Licence		.].].	•••••
Form 5			-le. s. Je. Sign	ature	of Licensee	
					100	
					C22.23	

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UTM 18 Z 4124114	31 <i>6/4e</i>			GROUND WAT	ER BRANCH Nº 2519		
5 R 500521	10 N		ARIO	AUG 2(1957		
Elev. $4 \times 0 \times 13 \times 0$	The W	ater-well D	rillers Act, 1954		ONTARIO WATER RESOURCES COMMISSION		
asin 2 15		Department			1999-9		
	Wate	r-We	Il Reco	rd			
County or Territorial District,	Carleto	- 	nship, Village, Town o	r City Loul	bourne		
				City) Tillsvill			
			ddress	MMM M	<u>_</u>		
	(month)	(year)					
Pipe and Casin	g Record			Pumping Test			
Casing diameter(s)			Static level	12			
Length(s)	NANE		Pumping rate Pumping level	20 gapt			
Length of screen			Duration of test				
Well Log	,	<u>í</u>		Water Record			
Overburden and Bedrock Record	From ft.	To ft.	Depth (s) at which water (s)	No. of feet water rises	Kind of water (fresh, salty,		
· ·			found		or sulphur)		
shale.	0	5					
limeston GREY	5	57	55	43	sulphur		
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					· ·		
					-		
		_	••••••••				
For what purpose(s) is the water	to be used?						
tor what purpose(s) is the water				ocation of Well			
is water clear or cloudy?				w show distances of e. Indicate north			
is well on upland, in valley, or on <u>uppland</u>							
Drilling firm							
Address							
					- Rd to Muns		
Name of Driller	Marah			T.	144,000 1140.000		
address	<u>II (a vin</u>						
icence Number. <u>H</u> <u>H</u> O				F			
I certify that the f			40	· ····			
statements of fact			- It ighway if	above 1			
Date 1.1.9.17/57	sarks		j J J	Stitteville			
	mature of License						
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UTM 182 41240416E				15.1	Nº 2521
5 R 50051119the Ontario Water R	esources	Commission	Act	mmm 1) an	
Elev. 4 R 0141315 WATER WE		RFC	ORD		
Basinty & Bistrict LIPACETE				Face	Runne
Con	Date co	mpleted	2 T	TULY	66
ŕ			(day D5H	month	year)
		•			
Inside diameter of casing				ng Test	
Total length of casing	1	tic level	14	~ 7	
Type of screen		t-pumping r	ate 3 0	າ. ວ	G.P.M.
Length of screen		nping level	••••••••••••••••••	• • • • • • • • • • • • • • • • • • • •	
Depth to top of screen					
Diameter of finished hole				f test CC	
					G.P.M.
Well Log	wit.				er Record
		From	То	Depth(s) at	Kind of water
Overburden and Bedrock Record		ft	ft.	which water(s) found	(fresh, salty, sulphur)
<u>S4ALE</u>		0	12		
LIME STAL		12	34	72	FRESH
					,
For what purpose(s) is the water to be used?			Location	of Well	<u></u>
HOUSE				distances of we	
Is well on apland, in valley, or on hillside?		road and	lot line. Inc	licate north by	arrow.
Drilling or Boring Firm				1	1
F. C. SJIPAJUS					14
Address 5777SUILLE					
					/
Licence Number				OLD,	15
Name of Driller or Borer CHSPARIS					
Address				<u>_</u>	
Date $1 \in 68/61$				14 M	
(Signature of Licensed Dryling or Boring Contractor)					
Form 7 15M-60-4138					
OWRC COPY					C85.88
			nn.	nsTEA	ار می از می از می این می از معرفی می از معرفی از می

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49 6				15	Nº 2558
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5 R 5004181310 N			1057		24 1201 - E
ev. AR 0450 The Ontario	Water Resou	rces Commis	sion Act, 1957	RESOURCE	at dis fi Normana fi
sin Cars WATE	R WE	LL R	ECORD	in a stand of the second se	A Aristika (†18∰) y N°™Mana sasta (†18∰)
					bourn
unty or District Carleto	E //	Date compl	eted 30	Dec ·	1960
9 Lot	·····	Date comp	Stittsuil	lle Cn	19/90 year) f
Casing and Screen Record				ping Test	
nside diameter of casing		Static leve	el ping rate	121	CPM
Sotal length of casing.		Dumping	laval	15	
Type of screen		Duration	of test pumping	ź h	······
Length of screen		Water cle	ear or cloudy at e	end of test(lear
Diameter of finished hole		Decomm	and a numping r	ate 5	G.P.M.
Jameter of Imistica Releases		with	pumping level of	/ 3 1	
Well Log			Wat	ter Record	
	From	То	Depth(s) at which	No. of feet water rises	Kind of water (fresh, salty,
Overburden and Bedrock Record	ft.	ft.	water(s) found	Walci 11565	sulphur)
h = 0	0	12'			
Red Sand		.4.8	2/5]	36	Prest
aray lime Stone	12'	<u> </u>	73	<u></u>	
				-	_
For what purpose(s) is the water to be used	?			tion of Well	X
house			n diagram below		
s well on upland, in valley, or on hillside)		oad and lot line	e. Indicate nort	n by arrow.
hillside				·	//
Drilling Firm F. F. Sp. ci.	Ks				/
Address 3-:	e Ogte				1
Mulc35					
; Licence Number			1.6		
City Land I	1 Sparke			2.5	
	11. 10 1	- 6	811		y sin
Name of Driller (すれぐ. じつわた				
Name of Driller $(.19.120)$ Address 20.1760	<u>ille Ont</u>		<u></u>		
Name of Driller $(-19, 704)$ Address $5 + 1 + 1 + 5 = 0$ Date $Pec \cdot 39 = 760$	(<u>116. Ont</u>)			15 HWY	
Date Pec. 39 1460]		H	15 HWY	
Name of Driller (1917.04 Address 5 HHSU Date Pec. 39 (96) (Signature of Licensed Drilling Contract]		H	15 HWY	
Date Pec. 39 1460]		H	15 HWY	

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$\begin{array}{c c} & & & & \\ \hline \\ UTM & 18^{Z} & 41213191410 \\ \hline \\ $	urces Commission		GROUND WATER 15 Nº AUG 27	255
Elev, A RH 0141313 WATER WEL	L RECO	DRD	ONTARIO W	
	ownship, Village, To pate completed ess. $R S^{\#}$	own or City 14 Stitteve	august	1963 year)
Casing and Screen Record		Pumping	g Test	
Casing and Screen Record Inside diameter of casing 4" Total length of casing 11' Type of screen — Length of screen — Depth to top of screen 4" Diameter of finished hole 4"	Static level Test-pumping ra Pumping level Duration of test p Water clear or cle Recommended p	ute oumping oudy at end of oumping rate	7.4. ⁴ test	20 G.P.M. 4 20 min
	with pump settir	ng oi		r Record
Well Log Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
Bepmed well from	Ð	52	-	
Black Limestine	52'	80'		
			70'	Thesh
For what purpose(s) is the water to be used? Heas E Is well on upland, in valley, or on hillside? $4plAND$ Drilling or Boring Firm Lemma & Hueston	road and	am below show	of Well w distances of wa adicate north by	ell from arrow.
Address SR#2 Utithville Crt. Licence Number #1017 Name of Driller or Borer Some Address Date Gug 14/1963 Date Jug 14/1963 Uphman & Hueston (Signature of Licensed Drilling or Boring Contractor)		3/20	0/1 /+~ J = 15"	yds=>
Form 7 10M-62-1152			t C	: .38

State 15 No 2500 Set Scientsziczen The Weil Delies Act Set Scientsziczen Department of Mines, Provide of Ontaria Set Scientsziczen Department of Mines, Provide of Ontaria Set Scientsziczen Distance form of Scientsziczen Pipe and Chaing Record Pumping Test Casing discussion of scients of provide of the set of the								
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er. 4 R CI2 4 C The Wall Dillers Act Department of Mines, Province of Ontario Water Well Record Water Well Record Will Carlo Contains and the set of the se	M1/18 2 412 410 3-10 13		X					
ev.	5 R 500512110N				F	RE	CEIVE	D
The Well Driller Act Department of Mines, Province of Ontario Water Well Record C		ONTA	RIÓ			- 1/	N - 4 1952	
Department of MMES Water Well Record Department of MMES Date Completed	The							
Water Well Record P. 1. J. Static Well Record Part Completed Part (1997) Date Completed Construction of Well Control Well Control Well Control Well (1997) Pipe and Casing Record Pumping Test Casing diameter (0) 9.1 Distance from top of screen to ground level Duration of test Distance from top of screen to ground level Duration of test Distance from top of screen to ground level Duration of test Distance from copie of test is ground level Duration of test Mind (fresh or mineral) Master Record Kind (fresh or mineral) Master Record Water Record Value Record Via time down of the water to be used? Master Record If what is the scree of constaniantion? The down of Well In diagram below show distances of water In diagram below show distance of well from read and tot line. Indicate on the yarrow. If the down of the water to be used? The down of the well from read and tot line. Indicate on the yarrow. If the down of the water to be used? The down of Well from read and tot line. Indicate on the yarrow. If the down of the water to be used? The down of Well from read and tot line. Indicate on the yarrow. <td>sin 215 Department of</td> <td>f Mines,</td> <td>Provinc</td> <td>e of Ont</td> <td>ario</td> <td>GEOI</td> <td>OGICAL BRANC</td> <td>NES</td>	sin 215 Department of	f Mines,	Provinc	e of Ont	ario	GEOI	OGICAL BRANC	NES
Outling Tomating Utilized, Tomating Utilized, Tomating Date Completed (no) Mark M. (43) (100 at of Well (Recluding pump). Product Mark M. (43) (100 at of Well (Recluding pump). Pipe and Casing Record Pumping Test Date Completed (no) Static level. (15) Paraphilo of screen (0) 911. Date. Distance from top of screen to ground level. Duration of test. 24. Distance from top of screen to ground level. Duration of test. 24. Distance from top of screen to ground level. Distance from cylinder or borns to ground level. Distance from cylinder or borns to ground level. Water Record Water Record Water Record Water Record Water at is well from possible source of contamination? 10. 10. 10. Mhat is the source of contamination? 10. 10. 10. 10. Mint is well from possible source of contamination? 10. 10. 10. 10. Mint is be source of contamination? 10. 10. 10. 10. 10. 10. Mint is be source of contamination? 10. 10. 10. 10. 10. 10. <td>Water</td> <td>Wo</td> <td>11 I</td> <td>Rec</td> <td></td> <td></td> <td></td> <td>and the state of the</td>	Water	Wo	11 I	Rec				and the state of the
Date Completed State CALLAGE (Construction) State Charles (Construction) State Charles (Construction) Pipe and Casing Record Pumping Test Casing diameter (a) Date Part of access (a) Date Distance from top of access to ground level During rate. Distance from top of access to ground level During rate. Water Record Water Record Water Record Water Record Kind (Iresh or mineral) Mach Nut, etc.) Appearance (class, cloudy, cloudy) State (Construction) Appearance (class, cloudy, cloudy) State (Construction) Water State State (Construction) Water to be used? Access (Construction) Water to be used? Tot Water to be used? Tot Water to be used? Tot Mark is the source of contamination? State (Construction) Water State State (Construction) State State State (Construction) Water State State (Construction) Water State State (Construction) Water State State (Construction) State State State		VV C				. 11		
Date Completed	Par Palan	Towns	hin. Villa	ge, Town	or City	20	ulle	nn
Date Completed			own o	r City)	State	the second	pe n	
Pipe and Casing Record Pumping Test Casing diameter (s)				an	S1820	(y. 5.4. 1)		
Type and cosing recent Length(6) of casing (a). I.S. Static level	Date Completed	t of Well	(excludif	ig pump).	. X. L. L. A. I. T	4		
Length (s) of casing (s)	Pipe and Casing Record				Pumping 7	lest		
Length (s) of casing (s)1.5. Static level	Casing diameter(s) 4 · · ·	Date			•••••			• • • • • • • •
Length of screen Pumping rate. 2.12 g.M.M. Distance from top of screen to ground level. Duration of test. 12.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4	Length (s) of casing (s)	Stati	c level					
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County or District CART 12	Date completed	4 .(day	month	year)
	ress RR #	1 sti	ttsville	Ont.
Casing and Screen Record		Pumping	Test	
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Inside diameter of casing Total length of casing	Test-pumping r Pumping level	ate	281	✓ G.P.M.
Type of screen	Pumping level	· · · · · · · · · · · · · · · · · · ·	30	LL R
Length of screen	Duration of test	pumping	<i>I</i>	n/ EAP
	Water clear or c	loudy at end of	test	CLEAR
Diameter of finished hole	Recommended	pumping rate	<u></u>	5 G.P.M.
	with pump setti	ng of 5		w ground surface
Well Log				r Record Kind of water
Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	(fresh, salty, sulphur)
	0	3'		
<u> </u>				
SHALE	31	5'		
FINE GRAVEL	5'	72		
BLACK LimestonE	22	. 52'	48'	FRESH
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For what purpose(s) is the water to be used?	i in diagr	am below show	v distances of w	ell from
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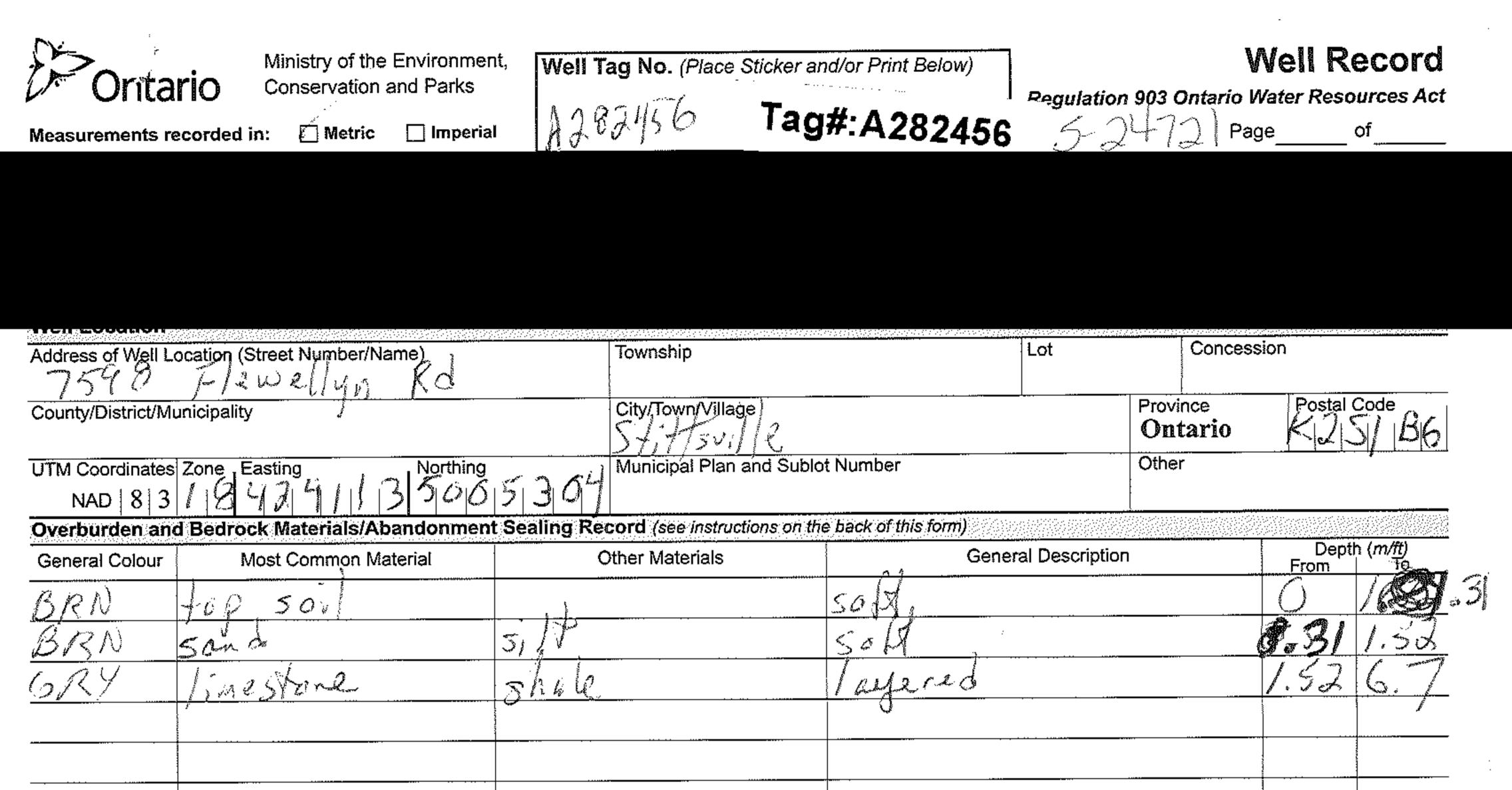
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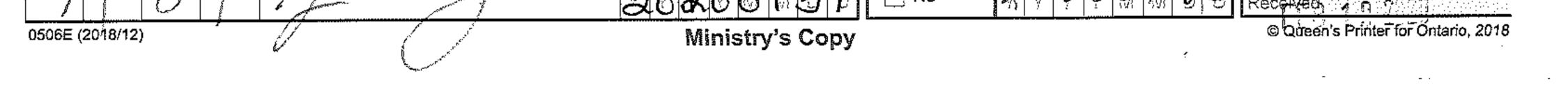
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ER FOUND		NSIDE		E RECOP			OF OPENING NO 1	31-33 DIAMETEI		ENGTH 31
10-13 1 St 371 2		DIAN MATERIAL NCHES MATERIAL	THICKNESS INCHES	FROM	10		HAL AND TYPE	D	INCHES DEPTH TO TOP IF SCREEN	41-44
15-18 1	FRESH 3 D SULPHUR 19	2 GALVANIZED 3 CONCRETE 4 OPEN HOLE	188	0 0	9 20	[61]	PLUGGIN	G & SEALI	NG RECO	RD
20-23 1	FRESH 3 D SULPHUR 24 C SALTY 4 D MINERAL	4		20.4	20-23	DEPTH SI	ET AT - FEET	MATERIAL AND T	YPE (CEME	NT GROUT CKER, ETC →
25-28 1	FRESH 3 SULPHUR 29 SALTY 4 MINERAL	3 CONCRETE 4 XOPEN HOLE 24-25 1 STEEL 26		20 0	0 90	10-	4			
30-33 1 🗌 1	FRESH 3 SULPHUR 34 80	2 🗌 GALVANIZED 3 🗌 CONCRETE			27-30	18-				
PUNPING TEST METHO		1-14 DURATION OF PU	MPING	<u> </u>		L				
STATIC	WATER LEVEL 25	GPM HOUI	6 00 17-1 RS NFN PUMPING				W SHOW DISTANCE			
LEVEL 19-21	END OF WATER LEVELS PUMPING 22-24 15 NINUTES 31	2	RECOVERY 60 MINUTES	4	I LOT LI	NE. INDI	CATE NORTH BY AR	ROW.	OM ROAD AN	4 D
048 FEET		060 ²⁹⁻³¹ FEET 060 ³²⁻³		<u>1</u>	5	ide t	२००० -			
GIVE RATE	GPM	T WATER AT END O	2 CLOUDY	* =	34	1		T		
RECOMMENDED PUMP	necommended	70 43-45 RECOMMENDED PUMPING FEET RATE	00 5 ⁴⁶⁻⁴¹ GPM	11				1		
0-53]				_'l	*	
FINAL STATUS	I B WATER SUPPLY Z OBSERVATION WELL J S TEST HOLE	 S ABANDONED, INSUFF G ABANDONED, POOR (7 UNFINISHED 			UNSTE 1	Ŕ		12		
OF WELL	A C RECHARGE WELL			R 4	οAD.			0)		
WATER 01	2 STOCK B	MUNICIPAL PUBLIC SUPPLY						٩.		
USE VI		COOLING OR AIR CONDIT 9 0 NOT 1				ļ				
	1 CABLE TOOL 2 ROTARY (CONVENTIONAL			11		T				
	3 C ROTARY (REVERSE) 4 ROTARY (AIR) 5 X AIR FERCUSSION	A D JETTING 9 DRIVING								
NAME OF WELL CON	ITRACTOR		NCE NUMBER			58 COM	ITRACTOR 59-62 (14	0.0
Capite	al Water Supp	ly Ltd. 1	558	l z	E OF INSPECT	1	INSPECTOR	DATE R 2'8	11	03
	90; Stittsvil	le Ont KO		ш			S CLOR			
BOX 49	OR BORER		A 3GO	S -	ABKC		<u></u>			
BOX 49	DR BORER			S -	ARKS		<u> </u>	······································		

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(V) Ont	ario l	Vinistry of he Enviror		II Tag Number-(Pla	ace sticker and pri		Regulation 903 Onta	Well R rio Water Reso	
Instructions for	or Completin	a Form		A026096	a "it "the cline of an	And Contraction		page _	of
• For use in t	he Province (of Ontario	only. This do	ocument is a perr	nanent lega	I document. Pl	ease retain for future refe	rence.	
Questions	regarding com	pleting this	application	can be directed t	o the Water		d explanations are available nent Coordinator at 416-2		this form.
	neasurement t clearly in blu			1/10 th of a metre		· · · · · · · · · · · · · · · · · · ·	Ministry Use Only		
					MUN			IOT	
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(
Address of Well L		/District/Mur 5	nicipality)		ownsnip Goulbou	Irn	Lot 12	Concession	9
RR#/Street Numb 7579 F1ew	er/Name				City/Town/Vi		Site/Compartmen	t/Block/Tract etc).
GPS Reading	NAD Zon 813 18	e Easting	⁹ 41 62	Northing 50 1054 199	Unit Make/M	lodel Mode	of Operation: Undifferentiate	الاستدار	iged
Log of Overbu	Irden and Be	edrock Ma	aterials (see	instructions)	- Udimi	L #8			
General Colour	Most common			er Materials		Genera	I Description	Depth From	Metres To
Brown		Soil	S	tones				0	1.8
Brown Gray	Shale Limest	008						3.35	12.19
Green & Red		<u></u>						12.19	35.96
						· · · · · · · · · · · · · · · · · · ·			
								-	
		-							
Hole Dia Depth Metr				Construction Red Wall	Depth	Metres	Test of W Pumping test method Dra	· · · · · · · · · · · · · · · · · · ·	ecovery
From To	Centimetres	Inside diam centimetres	Material	thickness	From	To		Nater Level Time Metres min	Water Level Metres
	40 22.75	Cenumedes		Casing			Pump intake set at - Statio	13.94	1
6.40 35.	96 15.23	15.86	Steel Fibr	eglass .48	+ .45	6.40		14.64 1	13.84
Water R	ecord		Plastic Con	crete			Duration of pumping 2	14.76 2	13.85
	Kind of Water		Steel Fibr	-			2_hrs + min Final water level end 3	14.81 3	13.89
🗌 Gas 🗌 Sa			Plastic Con				or pumping 14me93	14.83 4	13.96
	sh Sulphur		Steel Fibr	-			Shallow Ceep	· · ·	
Gas Sa	Ity Minerals		Galvanized				depth. 22.85 hetres	14.85 5	13.96
Gas Sa	esh 🗌 Sulphur Ity 🗌 Minerals	Outside		Screen				14.87 10 14.89 15	13.96
Other:	·	diam	Steel Fibr	-	_			14.88 20	13.95
Clear and sedir			Galvanized				If pumping discontin- 30	14.90 30	13.95 13.95
Other, specify_				No Casing or Sc		25.06	40 50	14.90 40 14.91 50	13.95 13.95
Chlorinated 🔀 Ye			Open hole		6,40	35.96	60	14,91 60	13,95
Depth set at - Metre	lugging and Se		slurry, neat cemer	ot slumy) etc Volu	Abandonment ime Placed		Location of We		ilding.
From To 6.40 0	Grouted	- Bent	onite Sl		oic metres) 2m3	Indicate north by	y arrow.	t	
						⊅		7579	
								·	
								1	-
Cable Tool	Rotary		Construction	bond	Digging	ह		, oitless	
Rotary (convent	ional) 🔀 Air per		Jettir	ng l	Other			1	·····
Rotary (reverse)	Boring	Wate	Drivit Br Use	ng —		Aunste	Flewellyn Rd.		
Domestic Stock	Industr		Publi 🗌 Not ı		Other	\$			
Irrigation	Munici		Cool tus of Well	ing & air conditioning		Audit No. Z	26062 Date Well	Completed YYYY 2005	MM DD 7 12
Water Supply	Recharge w		Unfir		doned, (Other)	Was the well ov package deliver	wner's information Date Delived?		MM DD [*] 7 13
Observation we Test Hole	Abandoned	, poor quality		acement well			Ministry Use Onl		······
Name of Well Cont	ractor			Well Contractor's	s Licence No.	Data Source	Contracto		· · ·
Capital Wa Business Address	street name, hum	ber, city etc.)		1558		Date Received	YYYY MM DD Date of In	spection YYYY	MM DD
P.O. Box 4 Name of Well Tech		aville,(first name)	Ontario K			Remarks	2 2005 Well Reco	ord Number	L
Miller: St Signature of Jechr	ioian/Contractor			Date Submitted	YY MM DD				
x 5000 0506€ (09/03)	han	Cor	ntractor's Copy	200	5 7 14	vner's Copy 🗌	Cette formul	e est disponible	en français
		001							



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Annular Space		Results of We	ell Yield Testing	
Depth Set at (<i>m/ft</i>) Type of Sealant Used	Volume Placed	After test of well yield, water was:	Draw Down	Recovery
From To (Material and Type)	(m³/ft³)	Clear and sand free Other, specify	(<i>min</i>) (<i>m/ft</i>)	Time Water Level
<u>OB35 bentonite</u>		If pumping discontinued, give reason:	Static Level	
3.35 6.7 4710.5md			1	1
		Pump intake set at (<i>m/ft</i>)		
		i unpinance set at (nong	2	
Method of Construction Well Use		Pumping rate (I/min / GPM)	3	3
Cable Tool Diamond Diamond Commerce			4	4
Rotary (Conventional)		Duration of pumping hrs + min	5	5
Rotary (Reverse) Driving Livestock Test Hole Boring Digging Irrigation Cooling 8	e 📝 Monitoring & Air Conditioning	Final water level end of pumping (m/ft)	10	10
Air percussion	v			
Other, specify Other, specify		If flowing give rate (Vmin / GPM)	15	15
Inside Open Hole OR Material Wall Depth (m/ft)	Status of Well Water Supply	Recommended pump depth (m/ft)	20	20
Diameter (Galvanized, Fibreglass, Thickness (cm/in) Concrete, Plastic, Steel) (cm/in) From To	Replacement Well	Recommended partip depart(mmy	25	25
	Test Hole	Recommended pump rate	30	30
5,20 PUC .390 0 3.66	Dewatering Well	(I/min / GPM)		·····
	Observation and/or Monitoring Hole	Well production (I/min / GPM)	40	40
	Alteration	Disinfected?	50	50
	(Construction)		60	60
Construction Record - Screen	Insufficient Supply	Map of We	ell Location	
Outside Material Depth (m/ft)	Water Quality	Please provide a map below following	ng instructions on t	he back.
Diameter (cm/in) (Plastic, Galvanized, Steel) Slot No. From To	Abandoned, other, specify			
6.03 PVC 10 3.666.7				
	Other, <i>specify</i>	See	plai	\sim
Water Details	ole Diameter		Ŵ	
	h (<i>m/ft</i>) Diameter		hhJ3	
(<i>m/ft</i>) Gas Other, specify From	To (cm/in)		-	
Water found at Depth Kind of Water: Fresh Untested	2. 11-15			
Water found at Depth Kind of Water: Fresh Untested	6.7 8.87			
(<i>m/ft</i>) Gas Other, specify				
Well Contractor and Well Technician Informati	on			
Business Name of Well Contractor / Wel	I Contractor's Licence No.			
Strike Strike Strike Mu Business Address (Street Number/Name) Mu	/ / ↓ └ / nicipality };	Comments:		
110 M N	outry://2	Quinnents.		
Province Postal Code Business E-mail Address				
	ASON. COM	Well owner's Date Package Delivere		itry Use Only
Bus. Telephone No. (inc. area code) Name of Well Technician (Last Name, I FISS FILL AT GUI M M CLAY TAMES	First Name)	package	D D	324267
Well Technician's Licence No. Signature of Technician and/or Contractor Date	te Submitted .	Pate Work Completed		
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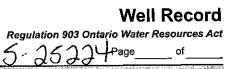


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THE BACKGROUND IMAGE CONTAINS INFORMATION LICENSED UNDER THE OPEN GOVERNMENT LICENSE - CITY OF OTTAWA.		an Cananan (1997) ann a' Frankanan - D'Anard (1997) a' Frankanan Antara ann an Anna ann an Cananan	Horizo	5m 10m DINTAL 1:
		EXPRevioes inc	<u></u>	
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DATE JAN 2020		2002244ELONNEARION		scale 1:500
DRAWN BY	TITLE:			I

7364348



Well Tag No. (Place Sticker and/or Print Below) A 296273



8784884 CANADA INC. C/O

Address of Well Locatio	on (Street Number/Name)		Iownsnip	LOI	0010633	011	
County/District/Municip	609 Flevelly	n Road	City/Town/Village,		Province	Postal	Code
County/District/Manicip	ionty ,		Offacion	(shitsulle)	Ontario		
UTM Coordinates Zone NAD 8 3 1			Municipal Plan and Sublot	Number	Other		
				back of this ferm)			
General Colour	Most Common Material	C	Other Materials		۱ 	-	n (<i>m/ft</i>) <u>To</u>
CAK	Tops 9,1			5.17		\mathcal{Q}	
BRN	Coarge Sand	Ga	avel silt	Soft love_	· ·		0
GRY_	Cimeston			herd		6	20
						<u> </u>	
				·			
					,		<u>. </u>
	Assulation			Results of W	vel Yield Testir		<u> </u>
Depth Set at (m/ft)	Type of Seala	ant Used	Volume Placed	After test of well yield, water was:	Draw Dowr	n Re	covery
From To	(Material and	<u>, , , , , , , , , , , , , , , , , , , </u>	(m³/ft³)	Clear and sand free Other, specify	Time Water L (min) (m/ft,		Water Level (m/ft)
	Monument Ci	<u></u>		If pumping discontinued, give reason	Static Level		
$\frac{1}{9}$	then sold				1	1	
9 20	Pitter Smo			Pump intake set at (m/ft)	2	2	
		and a state of the		Pumping rate (Vmin / GPM)	3	3	
Method of Co	Diamond Diamond		an sa manana an ing kasalangka na kanang na sa		4	4	
Rotary (Conventional)	I) 🗍 Jetting 🛛 🗌 Dom	nestic 🗌 Muni	cipal 🗍 Dewatering	Duration of pumping hrs + min	5	5	
Rotary (Reverse) Boring	Driving Lives	1	ng & Air Conditioning	Final water level end of pumping (m/	10	10	
Air percussion	weet push Othe	strial er, specify		If flowing give rate (I/min / GPM)	15	15	
	Instruction Record - Casi	ng	Status of Well		20	20	
Diameter (Galvaniz	e OR Material Wall	Depth (m/ft)	Water Supply	Recommended pump depth (m/ft)	25	25	
	, Plastic, Šteel) (cm/in)	From To	Test Hole	Recommended pump rate	30	30	
2.67 P	<u>ve</u> ,54	t3 10	Recharge Well Dewatering Well	(I/min / GPM)	40	40	
			Observation and/or Monitoring Hole	Well production (I/min / GPM)	50	50	
			Alteration (Construction)	Disinfected?		60	
			Abandoned, Insufficient Supply	Yes No	60		
Outside	onstruction Record - Scre	en Depth (<i>m/ft</i>)	Abandoned, Poor Water Quality	Map of A Please provide a map below follo			
I IV	Material alvanized, Steel) Slot No.	From To	Abandoned, other, specify		a	`	Å
2.375 P	VC 10	10 29	<u> </u>	10-76-	X CON	>	- R
			Other, specify				. •
	Water Details		Hole Diameter		//		· /
•	Kind of Water: Fresh	Untested D From	Depth (<i>m/ft</i>) Diameter n To (<i>cm/in</i>)		/ /	\frown	\searrow
(m/ft) Gas Water found at Depth	s Other, <i>specify</i>	Untested	4.5		$\left(\right)$	».	$\sum /$
(m/ft) Gas		7	20 3		(\s',10		Paris
•	Kind of Water: Fresh				V X.	/ Nat	
	Vell Contractor and Well	Technician Inform			$\langle \rangle_{a}$	levely?	
Business Name of We	all Contractor?	Solo Ches	Well Contractor's Licence No		-		
Business Address (Str			Municipality	Comments:	1 1	/	
	Rostal Code Business	E-mail Address/	Starticille	EXP Gensor Co	ntactors	On S	site .
ON 6	(191418191 WI	records			2.55 (Mar. 67.6.5	inistry Us	
a Stallow	c. area code) Name of Well To			information package delivered		° z 33	3418
Well Technician's Licence	Ce No. Signature of Technician	n and/or Contractor	Date Submitted	Date Work Complete		`11 °	
110]1/-2		YYYYMMDD			<u> </u>	
0506E (2018/12)			Ministry's Copy	/	େ ପ୍ୟ	ieen simmer te	or Ontario, 2018

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D :			
5	Ministry of the Environment,	Well Tag#:A296272 Below)	Well Record
🖉 Ontario	Conservation and Parks		Regulation 903 Ontario Water Resources Act
Measurements recorded	in: 🗆 Metric 🕅 Imperial	A296272	5-25224 Page of

8784884 CANADA INC. C/O

Address of v	2617 Flewell			ownsnip		LOI	0010000	Jon	
County/Dist	rict/Municipality	<u>pr j - 0-0</u>	с	ity/Town/Village OHau	(Stiffsville)		Province Ontario	Postal	Code
UTM Coordi NAD	inates Zone Easting 8 3 1 8 4 2 3 9	$1 \frac{1}{6} \frac{1}{5} \frac{1}{6} 0 0$	5734	lunicipal Plan and Sublot		·	Other		
	in and Bedrock Materi	als/Abandonment	Sealing Reco		<u> </u>			Dent	h (<i>m/ft</i>)
General Co			Oth-	er Materials	Genera Sof7	al Description		From	<u>10</u> i
 	Tapse Garse		Gou	el S.H.	<u> </u>	1004		1	6
GRY	Clay,		इ.स	Gouel	hard	Serge		6	¥
GRY	Limeste	»nz			hard			3	20
		,							₽
									<u> </u>
									<u> </u>
	et at (<i>m/ft</i>)	Annular Space	and the second secon	Volume Placed	After test of well yield, w	esults of We	Draw Dow	n Re	ecovery
From + 7	To j	(Material and Type	<u>)</u>	(m³/ft³)	Clear and sand fro	ee	(min) (π/f		Water Level (m/ft)
	9 Hole	die die	1		If pumping discontinued	i, give reason:	Static Level		.
9	20 Files	- Sand			Pump intake set at (m/i	7)	1	1	
<u> </u>		<u> </u>					3	2	
North Contraction of the State	nod of Construction	and the second	-Well Us		Pumping rate (I/min / Gh	PM)	4	4	
- ••	Conventional)	Domestic	Comme Municipa	al 🗍 Dewatering	Duration of pumping hrs + m	in	5	5	
Rotary (F Boring		Livestock	Test Hoi	ie 🔀 Monitoring & Air Conditioning	Final water level end of	pumping (m/ft)	10	10	
Air percu	recity du neut profi	_ Industrial	cify		If flowing give rate (Vmir	7/GPM)	15	15	
Inside	Construction R Open Hole OR Material	ecord - Casing	Depth (<i>m/ft</i>)	Status of Well Water Supply	Recommended pump of	lepth (m/ft)	20	20	
Diameter (cm/in)	(Galvanized, Fibreglass, Concrete, Plastic, Steel)	Thickness (cm/in) Fro	m To	Replacement Well	Recommended pump r	rato	25	25	
2,067	puc	.154 +3	P	Recharge Well Dewatering Well	(I/min_/ GPM)	ale	30	30	
				Observation and/or Monitoring Hole	Welt production (Vmin /	GPM)	40 50	40 50	
				Alteration (Construction)	Disinfected?		60	60	
and an an	Construction R	lecord - Screen	Projek 50 de 180 de	Abandoned, Insufficient Supply			L		
Outside Diameter	Material (Plastic, Galvanized, Steei)		Depth (<i>m/ft</i>) m To	Water Quality Abandoned, other,	Please provide a map	below follown	g instructions	on the back	^с 👗
			0 20	specify	N D		~		- T
	4		- 0.0	Other, specify	1 760	<u> </u>			N
	Water De					47	A.B.		/
(п	d at Depth Kind of Wate n/ft) □Gas □Other, sp	ecify	From	th (<i>m/ft</i>) Diameter To (<i>cm/in</i>)			139		
	d at Depth Kind of Wate			20 3		The second secon			ad
Water foun	d at Depth Kind of Wate	r: Fresh Unte	ested	20 3	\	15 reway	1	R.a	
	en en of defense and and an en en en ender a sere and and and an ender	ecity or and Well Techi					lewelly	: /	
Business N	lame of Well Contractor	Filling Group		ell Contractor's Licence No. フース イー/			(le.		
	ddress (Street Number/N			unicipality	Comments:	eneral G	Jaches		त
Province	Postal Code	Business E-ma	il Address	1 1 .010					Sile
ON Bus.Teleph	one No. (inc. area code) N	ame of Well Technic	ds 2 57 41 sian (Last Name,		Well owner's Date P information package	ackage Delivere	Audit	4 5 3	8146
905	940791914 cian's Licence No. Signatyr	MeCor	James	-	delivered , , , , , , , , , , , , , , , , , , ,	/ork Completed		1 4 2020	
<u>ין ר-</u> ר	1071	h7		YYYWMDD	▋┗━━━━━━┥	20 05			or Ontario, 2018
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Ministry of the Environment Conservation and Parks Measurements recorded in:	Well Tag No. (Place Sticker and A 296 136	Vor Print Below) Well Re Regulation 903 Ontario Water Resource S-25532 Page of				
Well Owner's Information First Name Last Name / Organization R1R UQQU	tion Canada Inc.	E-mail Address	Well Constructed by Well Owner			
Mailing Address (Street Number/Name) 7628 Flewellyn Road Well Location	Municipality Stittsville	Province Postal Coc 6N K2S				
Address of Well Location (Street Number/Name) 7613 Flewellyn Kord County/District/Municipality	Township City/Ţown/Village	Lot	Concession Province Postal Code			
UTM Coordinates Zone Easting NAD 8 3 1 9 4 3 9 8 7 5 0 5	Municipal Plan and Sublot R 5 31 4	Number	Ontario Other			
Owerburden and Bedrock Materials/Abandonment General Colour Most Common Material BRN F0D Sev	Other Materials	General Description				
BRN top Sovi BRN clay GRY limestone	<u>~₁/</u>	soft	2.13 6.1			
		0				
	W Medical States - Andrews - States - Andrews	Regulfsof	Well Yield Testing			
Annular Space Depth Set at (m/ft) Type of Sealant Use From To (Material and Type) O .3) C o n cr wfr/mon	ed Volume Placed (m³/ftº)	After test of well yield, water was: Clear and sand free Other, specify	Draw Down Recovery Time Water Level Time (min) (m/t) (min) Static (m/t) (m/t)			
.31 2.79 butonite 2.79 6.1 litter sud		If pumping discontinued, give reasonable Pump intake set at (m/ft)	n: Level			
Method of Construction		Pumping rate (I/min / GPM)				
Cable Tool Diamond Public Rotary (Conventional) Jetting Domestic Rotary (Reverse) Driving Livestock Boping Digging Infigation	Commercial Not used Municipal Oewatering First Hole Cooling & Air Conditioning	Duration of pumping hrs +min Final water level end of pumping (<i>n</i>	5 5			
Construction Record - Casing	Status of Well	If flowing give rate (I/min / GPM)	15 15 20 20			
Inside Open Hole OR Material Wall Calvanized, Fibreglass, Convrete, Plastic, Steel) Convrete, Plastic, Steel) Galvanized, Fibreglass, Convrete, Plastic, Steel) Galvanized, Fibreglass, Converter, Plastic, Steel, Converter, Converter, Plastic, Steel, Converter, Converter, Plastic, Steel, Converter, Conv	Depth (m/ft) Water Supply n To To Replacement Well Test Hole Recharge Well	Recommended pump depth (m/ft) Recommended pump rate (//min / GPM)	25 25 30 30			
	Dewatering Well Observation and/or Monitoring Hole Alteration	Well production (Vmin / GPM)	40 40 50 50			
Construction Record - Screen			60 60 Well Location			
Outside Diameter (onvin) Material (Plastic, Galvanized, Steel) Slot No. E 5.03 PVC CO 3 State	1 6./ specny	Please provide a map below follo				
Water Details		16	t he h			
(m/ft) Gas Other, specify Water found at Depth Kind of Water: Fresh (m/ft) Gas Other, specify (m/ft) Gas Other, specify	From To (cm/in)		10mg writes			
Water found at Depth Kind of Water: Fresh Unter (m/ft) Gas Other, specify	sted	Daine and	flowellyn			
Business Name of Well Contractor Strate Drilling Gcov p Business Address (Street Number/Name)	Well Contractor's Licence, No.	Comments:				
129 Rm word Dr. Province Postal Code Business E-mail ON L9AEG	I Address	Well owner's Date Package Deli				
Bus. Telephone No. (<i>inc. area code</i>) Name of Well Technician 105790780 Well Technician's Licence No. Signature of Technician and/o	TAMES	Date Work Comple	M D D Audit No. Z3 3 8 2 8 8 ted			
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SOIL PROFILE AND TEST DATA

Geotechnical Investigation 7628 Flewellyn Road Ottawa, Ontario

154 Colonnade Road South, Ottawa, Ontario K2E 7J5

DATUM Geodetic

REMARKS	

FILE NO. **PG5783**

HOLE NO. BH 1-21 BORINGS BY Track-Mount Power Auger DATE May 21, 2021 SAMPLE Pen. Resist. Blows/0.3m Monitoring Well Construction STRATA PLOT DEPTH ELEV. SOIL DESCRIPTION 50 mm Dia. Cone (m) (m) RECOVERY VALUE r rod NUMBER TYPE 0/C Water Content % Ο N V OF **GROUND SURFACE** 80 20 40 60 0+129.19100 50+ SS 1 FILL: Brown silty sand with gravel 0.15 and rock fragments RC 1 100 31 1+128.19 2 RC 100 65 2+127.193+126.19 RC 3 100 100 **BEDROCK:** Poor to excellent quality, grey limestone interbedded 4+125.19 with grey dolostone and shale - vertical seams from 6.45 to 6.8m RC 4 100 72 and 7.7 to 8.0m depths 5+124.196+123.19 5 RC 100 57 7+122.19 RC 6 100 68 8+121.19 9+120.19 RC 7 100 88 10.06 10+119.19 End of Borehole 20 40 60 80 100 Shear Strength (kPa) Undisturbed △ Remoulded

SOIL PROFILE AND TEST DATA

Geotechnical Investigation 7628 Flewellyn Road Ottawa, Ontario

154 Colonnade Road South, Ottawa, Ontario K2E 7J5

DATUM REMARKS

Geodetic	

FILE NO. PG5783

BORINGS BY Track-Mount Power Auge	er			D	ATE	May 21, 2	2021		HOLE NO. BH 2-21	
SOIL DESCRIPTION			SAMPLE		DEPTH	ELEV.	Pen. Resist. Blows/0.3m • 50 mm Dia. Cone		Well	
	STRATA PLOT	ТҮРЕ	NUMBER	% RECOVERY	N VALUE or RQD	(m)	(m)	• w	ater Content %	Monitoring Well Construction
GROUND SURFACE			z	RE	z ^o	0-	129.38	20	40 60 80	ĕö
FILL: Brown silty sand with crushed 0.20 stone		ss	1		50+	0	129.00			
		RC -	1	100	35	1-	-128.38			իրինիրինի Միրինինինի
		RC	2	100	40	2-	-127.38			Յոնքերին ուներիներին երերութիներին եներուներին եներին երեներին երեներին երեներին եներին եներին երեներին երեներ ՀԱՆԻՄ ԵՐՈՒՄ ԵՐՈ
		RC	3	100	88	3-	-126.38			<u>երերերերը</u> Երերերերեր
BEDROCK: Poor to excellent quality, grey limestone interbedded with grey dolostone and shale		-	_			4-	-125.38			<u>որորդորի</u> որորդորդոր
		RC -	4	100	92	5-	-124.38			որիներին հերհերհեր
		RC	5	100	66	6-	-123.38			
		-	0	100	05	7-	-122.38			
		RC -	6	100	25	8-	-121.38			
		RC	7	100	72	9-	-120.38			
10.11_ End of Borehole		-				10-	-119.38			
								20 Shea ▲ Undistu	r Strength (kPa)	 00

SOIL PROFILE AND TEST DATA

Geotechnical Investigation 7628 Flewellyn Road Ottawa, Ontario

154 Colonnade Road South, Ottawa, Ontario K2E 7J5

Geodetic

DATUM

FILE NO.	
	PG5783

DEMARKO										PG5783	3
REMARKS				_					HOLE N	^{ю.} BH 3-21	
BORINGS BY Track-Mount Power Auge					ATE	May 25, 2	2021				1
SOIL DESCRIPTION	PLOT		SAN			DEPTH (m)	ELEV. (m)	-		lows/0.3m ia. Cone	g Well
GROUND SURFACE	STRATA	ТҮРЕ	NUMBER	% RECOVERY	N VALUE or ROD			0 W 20	/ater Co	ontent % 60 80	Monitoring Well Construction
FILL: Brown silty sand with gravel 0.15		≤ SS	1	75	50+	0-	-128.16		40		
and rock fragments		RC	1	100	81	1-	-127.16				
		RC	2	100	80	2-	-126.16				
		RC	3	100	80	3-	-125.16				
BEDROCK: Good to excellent quality, grey limestone interbedded with grey dolostone and shale		RC	4	100	63		-124.16 -123.16				ស់ស្តេរីលៅសំលៅលើសំលើសំលើសំលើសំលើសំលើសំលើសំលើសំលើសំលើសំ
		RC	5	100	76		-122.16				
		RC	6	100	89		-121.16 -120.16				
		RC	7	100	97	9-	-119.16				
End of Borehole		-				10-	-118.16				
								20 Shea ▲ Undist	ar Streng	60 80 gth (kPa) △ Remoulded	⊣ 100

SOIL PROFILE AND TEST DATA

Geotechnical Investigation 7628 Flewellyn Road Ottawa, Ontario

154 Colonnade Road South, Ottawa, Ontario K2E 7J5
DATUM Geodetic

FILE NO.	
	PG5783

REMARKS BORINGS BY Track-Mount Power Auge	er			D	ATE I	May 25, 2	2021		HOLE N	^{o.} BH 4-21	
SOIL DESCRIPTION		SAMPLE DEPTH ELE				ELEV.		esist. B 60 mm Di	n Well		
	STRATA PLOT	ТҮРЕ	NUMBER	% RECOVERY	N VALUE or RQD	(m)	(m)		Vater Co		Monitoring Well Construction
GROUND SURFACE	ST	H	ЮN	REC	N V OF			20		60 80	Mon
TOPSOIL 0.10	`^^^?	8 AU	1			0-	-126.71				-
GLACIAL TILL: Brown silty sand with gravel, cobbles and boulders, trace clay		≊ ∑ ss	2		50+	1-	-125.71				
End of Borehole	<u>^_^</u>	-									
Practical refusal to augering at 1.22m depth (BH dry upon completion)											
(BH dry upon completion)											
								20 She ▲ Undis	ar Streng	60 80 1 gth (kPa) △ Remoulded	00

SOIL PROFILE AND TEST DATA

Geotechnical Investigation 7628 Flewellyn Road Ottawa, Ontario

154 Color	nade Road South, Ottawa, Ontario K2E 7J5
DATUM	Geodetic

FILE NO.	
	PG57

										PG	5783	
REMARKS									HOL	ENO. DU	- 01	
BORINGS BY Track-Mount Power Auge	r			D	ATE	May 25, 2	2021			BH)-2 	
SOIL DESCRIPTION	PLOT	SAMPLE			DEPTH		Pen. Resist. Blows/0.3m • 50 mm Dia. Cone				Monitoring Well Construction	
	STRATA	TYPE NUMBER		% RECOVERY	N VALUE or RQD	(m)	(m)	• V	Content %	it %	structio	
GROUND SURFACE	ST	H	ŊŊ	REC	N N			20	40	60 80) Ao	Sol
	`^^^?	S AU	1			0-	126.70					
TOPSOIL 0.10 GLACIAL TILL: Brown silty sand, some gravel, cobbles and boulders, trace clay 1.45 End of Borehole Practical refusal to augering at 1.45m depth (BH dry upon completion) 1.45		SS SS	1	33	9		-125.70					
								20 Shea ▲ Undis		60 80 ength (kPa) △ Remoul)	

SOIL PROFILE AND TEST DATA

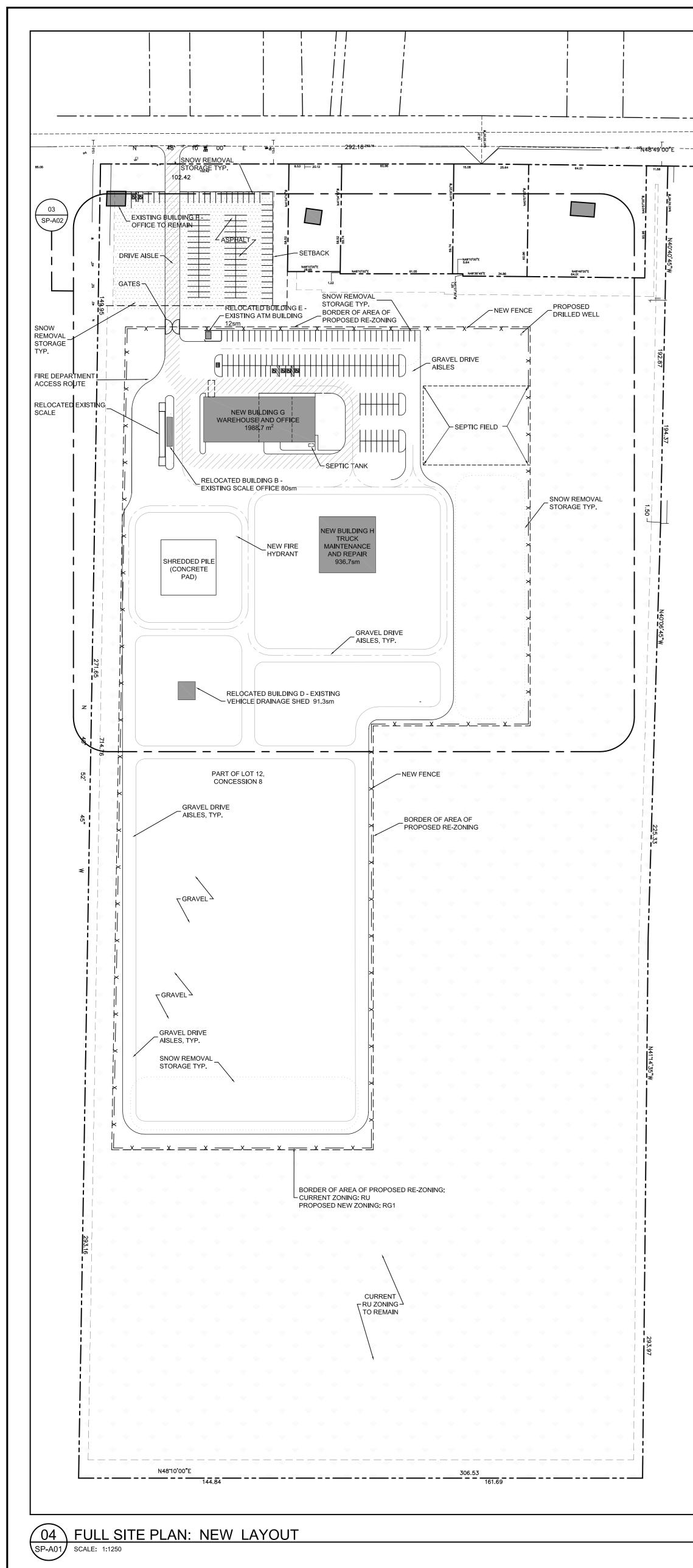
100

Geotechnical Investigation 7628 Flewellyn Road

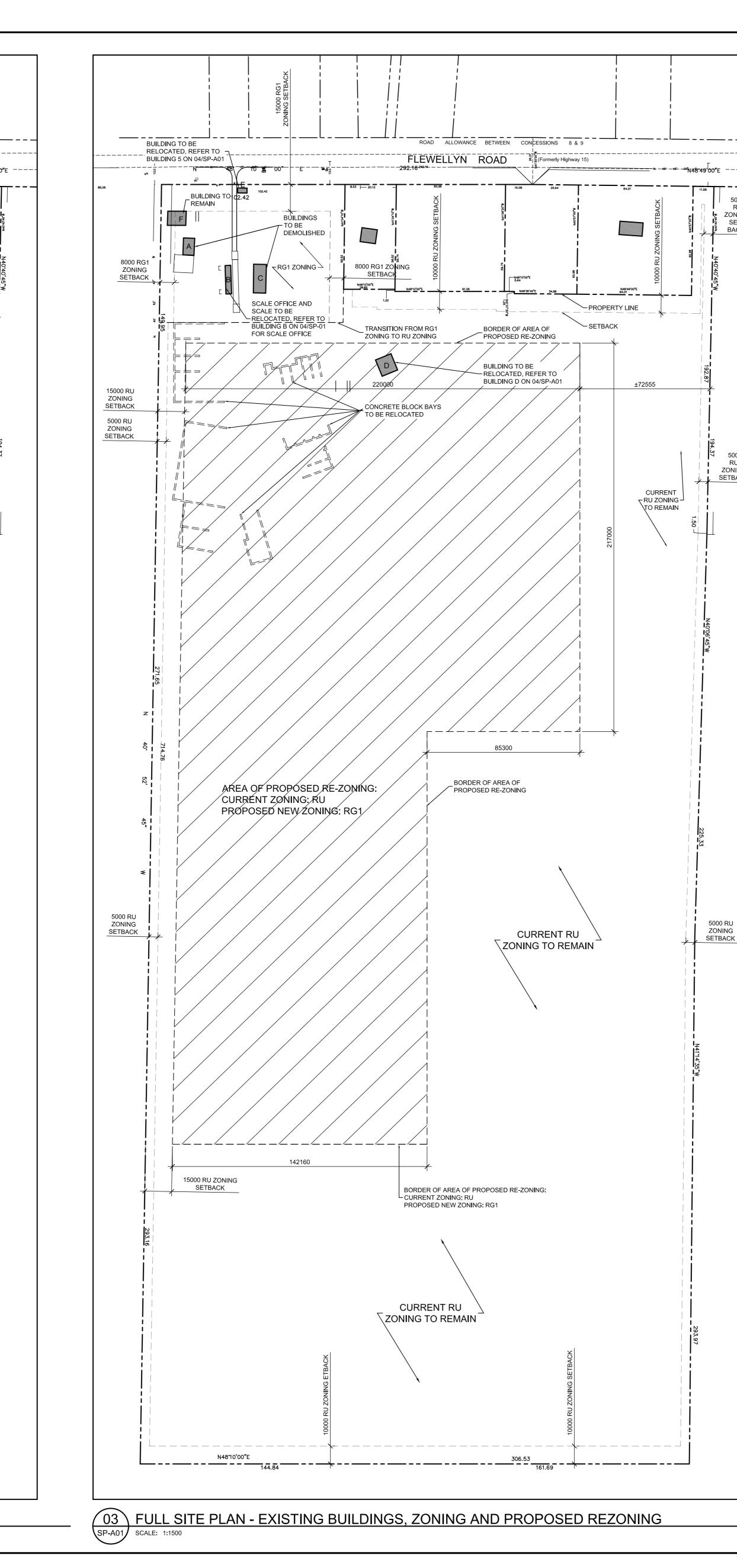
REMARKS

154 Colonnade Road South, Ottawa, Ont		tawa, Or		u .								
DATUM Geodetic						FILE NO. PG5783						
REMARKS HOLE NO. THE OCT												
BORINGS BY Track-Mount Power Auger DATE May 25, 2021 BH 6-21									1			
SOIL DESCRIPTION	РГОТ	SAMPLI				DEPTH	ELEV.	Pen. Resist. Blows/0.3m • 50 mm Dia. Cone			Nell N	
SOIL DESCRIPTION			æ	ХХ	що	(m)	(m)				ctio	
	STRATA	ТҮРЕ	NUMBER	% RECOVERY	N VALUE or RQD			• •	/ater (Conter	nt %	Monitoring W Construction
GROUND SURFACE	S S		Z	RE	z o	0	100 70	20	40	60	80	ĭĭĭ
FILL: Brown silty sand with gravel, 0.25 trace organics		AU AU	1 2				-126.78					
GLACIAL TILL: Brown silty sand, some gravel, cobbles and boulders,		ss	2	58	9	1-	-125.78					
trace clay2.23		ss	3	0	36	2-	-124.78					
End of Borehole												
Practical refusal to augering at 2.23m depth												
(BH dry upon completion)												

trace clay		ss	3	0	36							
2.23	3 <u>\^^^^/</u>	μ				2-	124.78					
End of Borehole												
Practical refusal to augering at 2.23m depth												
(BH dry upon completion)												
								2	0 4	06	50	80
								S ▲ U	Shear S ndisturbe	ed \triangle	th (kF Remo	'a) oulded
				I	I	1	1	1				



28 X 40 - PLOT ISO B1



	SITE AREA: 20.725 hectares / 51.21 acres
	LEGAL DESCRIPTION: PART OF LOT 12, CONCESSION 8 GEOGRAPHIC TOWNSHIP OF GOULBOURN CITY OF OTTAWA PIN: 04438-0006
	BUILDING INFORMATION
	EXISTING BUILDING AREA: BUILDING A - FERROUS METALS 59.0 SM
	BUILDING B -WEIGH SCALE OFFICE49.9 SMBUILDING C -STAFF TRAILERS111.8 SM
	BUILDING D -VEHICLE DRAINAGE SHED91.4 SMBUILDING E -ATM14.5 SM
	BUILDING F -OFFICE81.4 SMTOTAL408.0 SM
	NOTE: BUILDINGS A & C ARE PROPOSED TO BE DEMOLISHED; BUILDINGS B, D & E ARE PROPOSED TO BE RELOCATED
	NEW BUILDING AREA: BUILDING G - WAREHOUSE AND OFFICE (2 STOREYS) 2,008.6 SM
	BUILDING H -TRUCK MAINTENANCE AND REPAIR937.0 SMTOTAL AREA PROPOSED2,945.6 SM
	EXISTING TO REMAIN AND TO BE RELOCATED BUILDING AREA: BUILDING B - WEIGH SCALE OFFICE (RELOCATED) 49.9 SM
	BUILDING D -VEHICLE DRAINAGE SHED (RELOCATED)91.4 SMBUILDING E -ATM (RELOCATED)14.5 SM
	BUILDING F-OFFICE81.4 SMTOTAL TO REMAIN237.2 SM
	ZONING INFORMATION (CITY OF OTTAWA BYLAW 2008 250)
	CURRENT ZONING DESIGNATIONS: RG1[21r] - RURAL GENERAL INDUSTRIAL RU - RURAL COUNTRYSIDE
	RG1 ZONING IS TO REMAIN; A PORTION OF THE AREA CURRENTLY ZONED AS RU IS PROPOSED TO BE ZONED AS RG1
	ZONING BYLAW 2008-250 (Part 11 Sections 219, 220 and 227)
	RG1 PERMITTED USES:RU PERMITTED USES:ANIMAL CARE ESTABLISHMENTAGRICULTURAL USEANIMAL HOSPITALAGRICULTURE-RELATED USE
	ANIMAL HOSPITALAGRICULTURE-RELATED USEAUTOMOBILE BODY SHOPANIMAL CARE ESTABLISHMENTAUTOMOBILE DEALERSHIPANIMAL HOSPITAL
	AUTOMOBILE SERVICE STATION ARTIST STUDIO CANNABIS PRODUCTION FACILITY BED AND BREAKFAST
	DRIVE-THROUGH FACILITYCANNABIS PRODUCTION FACILITYDWELLING UNITCEMETERYGAS BARDETACHED DWELLING
	HEAVY EQUIP. & VEHICLE SALES, RENTAL & SERV. KENNEL ENVIRON. PRESERVE & EDUCATIONAL AREA
	LEAF AND YARD WASTE COMPOSTING FACILITYFORESTRY OPERATIONLIGHT INDUSTRIAL USESGROUP HOMEPARKING LOTHOME-BASED BUSINESS
	PRINTING PLANT HOME-BASED DAY CARE RETAIL STORE (LIMITED TO AGRIC., CONST. & LANDSCAPE EQUIP. & SUPPLIES) KENNEL
	SERVICE AND REPAIR SHOPON-FARM DIVERSIFIED USESTORAGE YARDRETIREMENT HOMETRUCK TRANSPORT TERMINALSECONDARY DWELLING UNIT
	WAREHOUSE WASTE PROCESSING AND TRANSFER FACILITY (NON-PUTRESCIBLE)
	EXCEPTION 21R: A DETACHED DWELLING MUST BE ACCESSORY TO A PRINCIPAL USE.
	ZONING PROVISIONS (TABLE 219 AND 227):
	RG1RUMINIMUM LOT WIDTH:60 M50 M (60 M IF AGRICULTURAL)MINIMUM LOT AREA:8.0 HA0.8 HA (2.0 HA IF AGRICULTURAL)
	MINIMUM SETBACKS: FRONT YARD: 15.0 M 10.0 M
	REAR YARD: 15.0 M 10.0 M INTERIOR SIDE YARD: 8.0 M 5.0 M CORNER SIDE YARD: 12.0 M 10.0 M
	MAXIMUM BUILDING HEIGHT: 15.0 M 12.0 M MAXIMUM LOT COVERAGE: 50% 20%
	PARKING (Part 4, Sections 100-114)
	PARKING DESIGNATION: SCHEDULE 1A: AREA D - RURAL
	PARKING SPACES (TABLE 101, ROWS N49, N59 AND N95): MINIMUM PARKING REQUIRED:
	LIGHT INDUSTRIAL:8 (0.8 PER 100 SM OF GFA)OFFICE24 (2.4 PER 100 SM OF GFA)WAREHOUSE:4 (0.4 PER 100 SM OF GFA)
	TOTAL 36
	PROPOSED PARKING : 224 (INCLUDING 91 FOR "CFT AUTO" STOCK) PARKING AREA LANDSCAPING PROVISIONS (SECTION 110):
	LANDSCAPE BUFFER REQUIRED: 1.5 M FOR PARKING AREAS NOT ABUTTING A STREET PROPOSED: MINIMUM 1.5 M
	BICYCLE PARKING (SECTION 111): 1 PER 1,000 SM REQUIRED FOR BUILDING G: 3 REQUIRED FOR BUILDING H: 1
	PROPOSED FOR BUILDING G: 3 PROPOSED FOR BUILDING H: 1 NOTE THAT BUILDING G AND BUILDING H PROPOSED BICYCLE PARKING WILL BE PROVIDED IN ONE LOCATION CLOSE TO BUILDING G
	MINIMUM WIDTH: 0.6 M MINIMUM LENGTH: 1.8 M
	SEE 03/SP-A02 FOR CONTINUATION OF ZONING INFORMATION
02	SITE, BUILDING AND ZONING INFORMATION
SP-A	
	LEGEND
	PROPERTY LINE SETBACK FOR RU AND RG1 ZONING
	BORDER OF AREA OF PROPOSED RE-ZONING SNOW REMOVAL STORAGE
	X FENCE Image: Area of proposed re-zoning shown in 03/sp-a01
	• • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • •
	ASPHALT FIRE DEPARTMENT ACCESS ZONE
	0 25m 50m 100m

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LOCATION PLAN

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Project
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SITE PLAN
ZONING A
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Drawing
ZONING IN
LOCATION
AND NEW
Scale
AS NOTED
Drawn
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Project No. 21-139

e AUGUST 2021





PROJECT NORTH tion Date R SITE PLAN APPLICATION 31 JAN 2024

OR SITE PLAN APPLICATION	31 JAN 2024
AND ISSUED FOR REVIEW	15 AUG 2024

