

Hydrogeology Study Proposed Two-lot Severance (B 26/22 + B 27/22) 676 Foxton Road, Roslin, Ontario



Prepared for:

Justin Bell 676 Foxton Road Roslin, Ontario K0K 2Y0

Submitted by:

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March 2024





G R E E R GALLOWAY

C O N S U L T I N G E N G I N E E R S

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Belleville, Ontario

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March 31, 2024

Project 23-3-8574

Mr. Justin Bell 676 Foxton Road Roslin, Ontario K0K 2Y0

Hydrogeology Study Proposed two-lot Severance (B 26/22 + B 27/22) 676 Foxton Road, Roslin, Ontario

Dear Justin,

We are pleased to submit this servicing study (water and sewage) report for your proposed two-lot Severance (B 26/22 + B 27/22) at 676 Foxton Road in Roslin, Ontario.

We trust that this report is complete within our terms of reference and sufficient for your requirements. Please call us if you have any questions about the report or any areas that require clarification. Once you have had the chance to review the draft, we will make any edits required and issue a final document.

Yours very truly,

THE GREER GALLOWAY GROUP INC. CONSULTING ENGINEERS

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1. Introduction

The Greer Galloway Group was retained by Mr. Justin Bell to complete a Hydrogeology Study for the proposed severance of two lots from an approximately 14.3 ha property located on the east side of Foxton Road, south of Boundary Road, near Roslin, Ontario. The legal description of the property is: Part of Lot 26, Concession 9, Thurlow Township in the City of Belleville. The property is currently in agricultural use.

Proposed severance B 26/22 is approximately 0.84 ha in area and is bounded by Foxton Road on the west and Boundary Road on the north. Proposed severance B 27/22 is approximately 0.45 ha in area and is bounded by proposed severance B 26/22 on the west and Boundary Road on the north. The Belleville Committee of Adjustment has granted consent for both severances subject to the following hydrogeology-related conditions:

- a properly-completed Water Well Record for the severed parcel, certifying the quantity of the water on this parcel is not less than 3.5 gallons per minute and that the water has passed the Health Unit Bacteriological Test;
- a hydrogeological analysis to demonstrate that an adequate water supply exists and that no adverse impacts will result to the surface and groundwater.

Each of the proposed severances has a well that meets the completed Water Well Record condition, so the purpose of this hydrogeology study is to assess the soil and groundwater conditions at the site to demonstrate that the proposed severances can be supported by groundwater and that the property can accommodate private sewage treatment/ disposal in accordance with applicable Provincial standards.

2. Investigation Methods

The investigation included a review of water well records, available geologic and hydrogeologic information for the area, a door-to-door inventory of water well supplies within a reasonable distance of the proposed development, pumping tests on the proposed lots in general accordance with MECP Guideline D-5-5 (Technical Guideline for Private Wells; Water Supply Assessment) and an analysis of sewage servicing options in accordance with MECP Guideline D-5-4 (Individual On-Site Sewage Systems). The investigation methods are described further in the following subsections:

2.1 Well Records Search and Survey

On June 4, 2023, a door-to-door well survey was carried out for neighbouring wells within an approximately 300 m radius of the proposed severances. Two homes are adjacent to the proposed new lots: The proponent's home at 676 Foxton Road to the south and west of the proposed severances and 349 Boundary Road to the northeast. 349 Boundary Road is supplied by a drilled well which was used as a monitoring location during the pumping tests. This well is located approximately 105 m to the northeast of Well A321307 (the east proposed severance), and 180 m northeast of Well A320558 (the west proposed severance).



The door-to-door well survey was limited to the adjacent properties only. We relied on MECP water well records for more distant residences. MECP Water Well Record sheets for the general area are provided in Appendix A.

2.2 Water Supply Assessment

The water supply assessment was based on pumping tests of the wells A321307 on the proposed eastern severance, A320558 on the proposed western severance, and A321308 which is also on the proposed western severance, but was found to have insufficient yield and will be decomissioned.

The pumping tests were performed using a submersible pump with the discharge routed through a flow restriction valve corresponding to the desired pumping rate. Pumped water was discharged approximately 30 m downgradient of each tested well.

Datalogging pressure transducers (Solinst Model 3001) were installed in the tested wells, the well servicing the residential dwelling located on the proposed retained property, and in wells servicing select neighbouring properties. All dataloggers were synchronized prior to the testing and set to record at 1-minute intervals. The water level observations during the test and the recovery period following the testing are included in the figures appended after the text of this report.

2.2.1 B 26/22 (West Severance)

This proposed lot contains two 30.5 m deep drilled wells, A321308 and A320558.

A321308 sources a bedrock aquifer, which was encountered at a depth of 3.9 m below ground surface. The driller reportedly encountered water at 4.3, 11.0, and 13.4 m depth. The well was completed with a pitless adaptor and a 6 m steel casing which was grout-sealed in the upper 3 m. The driller-reported yield is 40 L/min.

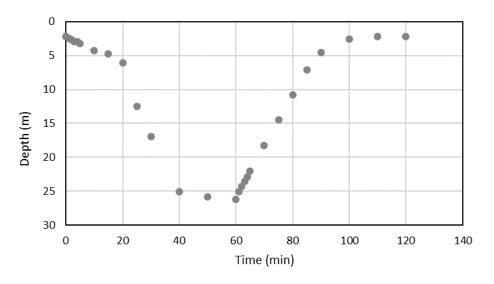


Figure A1 – Graph of driller's yield testing results for Well A321308



A320558 sources a bedrock aquifer, which was encountered at a depth of 3.6 m below ground surface. The driller reportedly encountered water at 4.9, 7.7, and 10.7 m depth. The well was completed with a pitless adaptor and a 6 m steel casing which was grout-sealed in the upper 5 m. Slotted steel casing was installed between depths of 5.5 m and 6.0 m bgs. The driller-reported yield is 23 L/min.

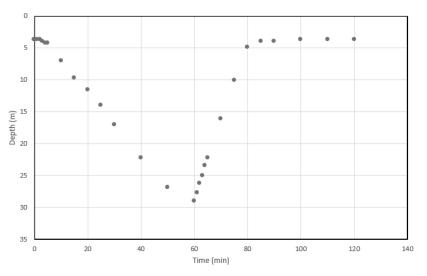
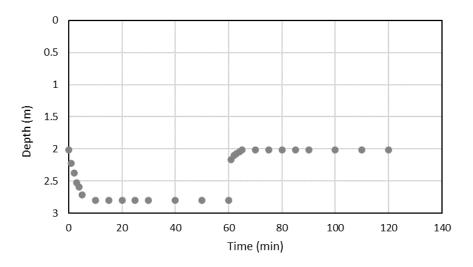


Figure A2 – Graph of driller's yield testing results for Well A320558

2.2.2 B 27/22 (East Severance)

This proposed lot contains a 30.5 m deep drilled well (A321307) which sources the bedrock aquifer which was encountered at a depth of 3.2 m below ground surface. The driller reportedly encountered water at 4.0, 7.9, and 10.7 m depth. The well was completed with a pitless adaptor and a 6 m steel casing which was grout-sealed in the upper 3 m. The driller-reported yield is 55 L/min.







2.3 Water Quality Assessment

A groundwater sample was obtained from each of the test wells during the last hour of the pumping test for Well A321308 and A320558, and after 290 min of pumping for Well A321307. Prior to taking the samples, it was confirmed that there was no residual free chlorine using a handheld free chlorine colorimeter. The sample bottles were placed in a variety of laboratory-prepared sample containers that were sealed, placed into a cooler with ice packs to maintain a temperature of approximately 4 °C, and transported to Caduceon Laboratories in Kingston, Ontario.

Analytical parameters included E. coli and Total Coliform bacteria and a variety of additional parameters including Alkalinity, pH, Conductivity, Colour, Turbidity, Fluoride, Chloride, Nitrite and Nitrate, Sulphate, TKN, Ammonia, Organic Nitrogen, DOC, Hardness, Calcium, Iron, Magnesium, Manganese, Potassium, Silica, Sodium, and Zinc (refer to the Laboratory Certificate of Analysis in Appendix B).

2.4 Karst Hazard Assessment

Karst-related hazards were assessed according to guidelines from Brunton (2013) and included a review of available information for the site and area along with a detailed site inspection to look for indications of potential karst and an assessment of the potential risk and appropriate mitigation measures. Specific geological/hydrogeological characteristics included topography and drainage, surficial geology, bedrock geology, groundwater elevations, groundwater flow patterns, and location of water wells potential recharge and discharge areas (including springs/seepage). Specific risk factors included proximity to bedrock valleys, carbonate rock texture, anomalously high well yields, and sequence stratigraphic breaks occurring at shallow depths.

2.5 Septic System Sizing

Representative total daily design sanitary sewage flows were estimated using the Ontario Building Code (OBC) Table 8.2.1.3.A. The water demand was estimated based on a hypothetical 3-bedroom residence on each of the proposed severances.

3. Summarized Findings

3.1 Site Description

The property covers an area of approximately 14.3 ha property located on the east side of Foxton Road south of Boundary Road near Roslin, Ontario. The legal description of the property is: Part of Lot 26, Concession 9, Thurlow Township in the City of Belleville.

Proposed severance B 26/22 is approximately 0.84 ha in area and is bounded by Foxton Road on the west and Boundary Road on the north. Proposed severance B 27/22 is approximately 0.45 ha in area and is bounded by proposed severance B 26/22 on the west and Boundary Road on the north.

The site itself is about 145 m above mean sea level (mASL). Site drainage is to the north and west, following the local topographic trends. There are no municipal services in the area and all homes are serviced by private water supply wells and private individual septic systems.



3.2 Climate and Water Balance

The area is characterized by mild winters and relatively cool humid summers. Snow typically occurs during 5 months of the year from December to April. Precipitation is approximately 912 mm/a (Canadian Climate Normals for CFB Trenton) with an average annual evapotranspiration (ET) of roughly 500 mm/a based on the site location (Statistics Canada, 2017).

Mapping shows primarily thin surficial soils classified as thin soils over Paleozoic bedrock in the Surficial Geology of Southern Ontario (OGS, 2011). The infiltration for the area was calculated using two methods: infiltration factors as per the Ontario Ministry of the Environment 1995 Hydrogeological Technical Information Requirements for Land Development Applications; and run-off factors as per the Technical and Engineering Guidelines for Stormwater Management Submissions (GRCA, 2014).

The infiltration factors approach is based on three sub-factors which are:

- Topography sub-factor
- Soil sub-factor
- Cover sub-factor

The following table presents infiltration factors based on the details of the ground cover for the area under current conditions:

Site Characteristic	Infiltration Factor
Topography	
Flat Land	0.3
Rolling Land	0.2
Hilly Land	0.1
Soils	
Tight impervious clay	0.1
Medium combinations of clay and loam	0.2
Open Sandy loam	0.4
Cover	
Cultivated Land	0.1
Woodland	0.2
Sum of Infiltration Factors	0.6

Table 2: Estimated infiltration factors

Given an average annual moisture surplus (P-ET) of approximately 400 mm/a, and an infiltration factor of 0.6, we estimate an average infiltration of about 240 mm/a, or roughly 6,575 L/day per hectare.

The runoff coefficient approach is similar except that it provides the amount of the water surplus lost to run-off and it typically yields a higher infiltration in most site settings.



Topography		Runoff Coefficient Based on Soil Type ¹ Sandy Loam Silt Loam Tight Clay Loam			Percentage of site area ²
Vegetated	Flat (0 to 5%)	0.08	0.25	0.35	50
lands	Rolling (5 to 10%)	0.12	0.30	0.42	50
	Hilly (10 to 30%)	0.18	0.35	0.52	0
	Basin (0%)	0.00			0

Table 3: Estimated run-off factors (MTO Drainage Manual)

Weighted Average: 0.275

Given an average annual moisture surplus (P-ET) of approximately 400 mm/a, and a runoff coefficient of 0.275, we estimate an average infiltration of about 290 mm/a, or roughly 7,945 L/day per hectare.

For the purposes of nitrate loading calculations, we have elected to assume an infiltration of 250 mm/a (6,850 L/day per ha) in accordance with the MECP's Design Guidelines for Sewage Works (MECP, 2008).

3.3 Geology

The surface physiography of the area has resulted primarily from glacial activity that took place during the Late Wisconsinan Substage of the Quaternary period (circa 23,000 to 10,000 BP). During this time, there were repeated advances and retreats of glacial ice lobes removing much of any pre-existing overburden and leaving the bedrock surface exposed or covered by a mantle of unconsolidated sandy-loam textured material overlying Paleozoic bedrock (OGS, 2011). Sand and gravel soils are noted in the drillers well logs for the site, but visual inspection of the shallow soils suggests a loam texture.

The bedrock geology consists of shales and limestones of the middle Ordovician age lower Bobcaygeon Formation. The Bobcaygeon Formation is a light grey-brown to blue-grey to grey-brown, fine- to coarse-textured fossiliferous limestone. Thin shale interbeds and partings are encountered within the limestone and these increase in abundance upward while crinoidal grainstones and nodular textures are more common in the lower part of the Formation. Armstrong and Rhéaume (1994) subdivide the Bobcaygeon Formation into an upper, middle, and lower member with the middle member forming the uppermost bedrock beneath the subject property.

Strata in the area are essentially flat-lying with a slight regional dip to the southwest although steeper bedding angles may occur closer to the Paleozoic-Precambrian boundary where the Paleozoic strata drapes over the pre-existing topography in the Precambrian basement.

3.4 Hydrogeology

The fractured limestone bedrock forms the primary source of exploitable groundwater in the area. A search of the Well Record Database from the Ministry of the Environment, Conservation and Parks (MECP) found 17 well records, within an approximately 700 m radius of the subject site. 16 of these records contained useful information regarding aquifer properties, the other being a well alteration record. Wells in the area ranged between 14.6 and 45.7 m depth with an average and median depth



of 25.9 and 21.9 m, respectively. All the wells were completed in the bedrock aquifer. Groundwater was encountered within fractured bedrock or overburden at depths ranging from 8.8 to 53.3 m with static levels occurring 1.5 to 32.6 m below ground surface. Driller-reported well yields ranged from 0 to 136 L/min with average and median yields of 35.8 and 13.6 L/min, respectively. Five dry wells were recorded. Water was generally described as fresh. A summary of the water well data is included on the following table:

Well Number	Water Found (m)	Static Level (m)	Yield (L/min)	Overburden Depth (m)	Hole Depth (m)	Water Type	Aquifer
2919737	12.2	6.1	dry	2.4	14.6	Untested	Bedrock
2903354	Multiple	3.0	9.1	2.7	26.8	Fresh	Bedrock
2903355	Multiple	0.3	227.0	0.6	39.9	Fresh	Bedrock
2905459	17.7	7.6	13.6	2.7	18.6	Fresh	Bedrock
7323489			No	data – raised c	asing		
2911851	4.3	1.8	136.2	4.3	37.8	Fresh	Bedrock
2911180	Multiple	4.0	22.7	8.5	22.9	Fresh	Bedrock
2910865	Multiple	2.4	18.2	3.7	19.2	Fresh	Bedrock
2911016	Multiple	1.5	13.6	3.7	18.3	Fresh	Bedrock
2911860		1.8	6.8	1.8	21.3	Fresh	Bedrock
2911861			dry	1.2	22.3		Bedrock
2913095			dry	2.1	16.5		Bedrock
2916522			dry	3.4	24.4		
2909438	24.4	2.4	13.6	4.6	27.4	Fresh	Bedrock
2910099	43.3	7.6	22.7	11.0	45.7	Fresh	Bedrock
7203436		3.1	20.4	8.5	30.5	Fresh	Bedrock
A320541		0.0	dry	3.7	30.5		Bedrock
A321308	Multiple	2.2	40.9	3.9	30.5	Untested	Bedrock
A321307	Multiple	2.0	54.5	3.2	30.5	Untested	Bedrock
A320558	Multiple	3.7	22.7	3.4	30.5	Untested	Bedrock

Table 4: Summary of well depths and yields within an approximately 700 m radius of the property

Based on the recorded static levels and the topographic setting, the dominant shallow groundwater flow direction is predicted to be in a western direction toward a wetland area and small creek. Deep groundwater will flow in a southeasterly direction toward the Moira River.

3.5 Water Availability

Pumping tests on Wells A321307 and A321308 were performed on June 6, 2023, following 7 days with no precipitation. The pumping test on Well A320558 was performed on February 15, 2024. The pumping tests are summarized in Table 5, and hydrographs are provided after the text of this report.

Well Number	A321307	A321308	A320558	349 Boundary Road
Purpose	Test Well	Test Well	Test Well	Observation Well
Static water level (m bgs)	3.49	3.11	2.36	3.01

Table 5: Summary of pumping tests

Well Number	A321307	A321308	A320558	349 Boundary Road
Test date	June 6, 2023	June 6, 2023	February 15, 2024	June 6, 2023
Test type	Pump	Pump	Pump	-
Test rate (L/min)	20.0	15.6	22	-
Duration (min)	503	80	360	-
Max drawdown (m)	0.42	21.5	0.75	0
Recovery	Rapid	Rapid	Rapid	-

Well A321308 was found to have low yield dominated by inflows from shallow bedrock horizons. It was considered unsuitable as a source of potable water for the proposed severance. It was replaced on the West Severance with A320558, which was tested on February 15, 2024.

3.6 Water Quality

A groundwater sample was obtained from each tested well and was analyzed at Caduceon Laboratories Ltd. in Kingston, Ontario for selected parameters. Key results of this testing are summarized in Tables 6-8, with the full Laboratory Certificates of Analysis in Appendix B.

	Units	RL	June 6, 2023	Criteria
Bacteriological Parameters				
Total Coliform	cfu/100mL	1	NDOGT	5
E coli	cfu/100mL	1	NDOGT ²	0
Background	cfu/100mL	1	NDOGT	
Physical/Chemical parameters	with Health-related	Criteria		
Turbidity	NTU	0.1	18.4	5
Nitrite (N)	mg/L	0.1	0.06	1
Nitrate (N)	mg/L	0.1	1.17	10
Fluoride	mg/L	0.1	<0.1	2.4
Physical/Chemical parameters	with Aesthetic Crite	eria/Oper	rational Guidelines	
Alkalinity(CaCO3) to pH4.5	mg/L	5	266	500 ^{0G}
pH @25°C	pH Units		8.09	6.5 – 8.5 ^{0G}
Colour	TCU	2		5 ^{0G}
Chloride	mg/L	0.5	10.9	250 ^{AO}
Sulphate	mg/L	1	5	500 ^{AO}
Dissolved Organic Carbon	mg/L	0.2	2.1	5 ^{AO}
Sulphide	mg/L	0.01	NP ³	0.05 ^{AO}
Hardness (as CaCO3)	mg/L	1	260	100 ^{0G}
Iron	mg/L	0.005	0.237	0.3 ^{AO}
Manganese	mg/L	0.001		0.05 ^{AO}
Sodium	mg/L	0.2	9.5	200 ^{AO}

Table 6: Summary of Water Quality Analyses (Well A321308, West Severance)

1) Criteria taken from Ontario Drinking Water Standards except for total coliform bacteria for which the Guideline D-5-5 criterion is used.

2) Reported E. coli reflect the overgrown plate and actual E. coli bacteria may or may not be present.

3) Based on odour

Table 7: Summary of Water Quality Analyses (Well A320558, West Severance)

	Units	RL	February 15, 2024	March 14, 2024	Criteria	
Bacteriological Parameters						
Total Coliform	cfu/100mL	1	6		0 (5)	
E coli	cfu/100mL	1	0		0	
Background	cfu/100mL	1	65			
Physical	/Chemical parar	neters v	vith Health-related	d Criteria		
Turbidity	NTU	0.1	0.8	-	5	
Nitrite (N)	mg/L	0.1	<0.05	-	1	
Nitrate (N)	mg/L	0.1	1.21	-	10	
Fluoride	mg/L	0.1	<0.1	-	2.4	
Physical/Chemica	l parameters wit	t <mark>h Aest</mark> h	etic Criteria/Oper	ational Guide	lines	
Alkalinity(CaCO3) to pH4.5	mg/L	5	254	-	500 ^{0G}	
pH @25°C	pH Units		7.78	-	6.5 – 8.5 ^{0G}	
Colour	TCU	2	4	-	5 ^{0G}	
Chloride	mg/L	0.5	13.7	-	250 ^{AO}	
Sulphate	mg/L	1	7	-	500 ^{AO}	
Dissolved Organic Carbon	mg/L	0.2	4.0	-	5 ^{AO}	
Sulphide	mg/L	0.01	<0.01	-	0.05 ^{AO}	
Hardness (as CaCO3)	mg/L	1	268	-	100 ^{0G}	
Iron	mg/L	0.005	0.042	-	0.3 ^{AO}	
Manganese	mg/L	0.001	0.003	-	0.05 ^{AO}	
Sodium	mg/L	0.2	7.7	-	200 ^{AO}	

1) Criteria taken from Ontario Drinking Water Standards except for total coliform bacteria for which the Guideline D-5-5 criterion is used.

Table 8: Summary of Water Quality Analyses (Well A321307, East Severance)

	Units	RL	June 6, 2023	March 25, 2024	Criteria
Bacteriological Parameters					
Total Coliform	cfu/100mL	1	10	1	0 (5)
E coli	cfu/100mL	1	0	0	0
Background	cfu/100mL	1	>200	>200	
Physical/Chemical paramete	rs with Healt	h-related	<u>Criteria</u>		
Turbidity	NTU	0.1	0.8	-	5
Nitrite (N)	mg/L	0.1	<0.05	-	1
Nitrate (N)	mg/L	0.1	0.45	-	10
Fluoride	mg/L	0.1	<0.1	-	2.4
Physical/Chemical parameters with Aesthetic Criteria/Operational Guidelines					



	Units	RL	June 6, 2023	March 25, 2024	Criteria
Alkalinity(CaCO3) to pH4.5	mg/L	5	291	-	500 ^{0G}
pH @25°C	pH Units		7.94	-	6.5 – 8.5 ^{0G}
Colour	TCU	2	5	-	5 ^{0G}
Chloride	mg/L	0.5	18.3	-	250 ^{AO}
Sulphate	mg/L	1	5	-	500 ^{AO}
Dissolved Organic Carbon	mg/L	0.2	2.2	-	5 ^{AO}
Sulphide	mg/L	0.01	NP	-	0.05 ^{AO}
Hardness (as CaCO3)	mg/L	1	285	-	100 ^{0G}
Iron	mg/L	0.005	0.149	-	0.3 ^{AO}
Sodium	mg/L	0.2	12.6	-	200 ^{AO}

1) Criteria taken from Ontario Drinking Water Standards except for total coliform bacteria for which the Guideline D-5-5 criterion is used.

4. Discussion

4.1 Servicing Options

Neither municipal water supply nor sewage servicing is available at the property, nor will municipal services be available in this area for the foreseeable future. As such, servicing for the proposed severances will be from private groundwater water supplies and private individual septic systems.

4.2 Water Availability

4.2.1 B 26/22 (West Severance)

Well A321308

Due to concerns about the well's yield being representative long-term, well A321308 could not be recommended as a potable water supply on the proposed severance. The well is pending decommissioning and was replaced with A320558.

Well A320558

The pumping test on well A320558 was started at 10:00 AM on February 15, 2024 at an initial rate of 18 L/min. Minimal drawdown was observed at this flow rate, with the water level stabilizing in under five minutes. At 10:05, the flow rate was increased to 22 L/min for the remainder of the test. The test was stopped at 4:00 PM, after six hours of pumping. A volume of approximately 7,900 L was pumped from the well during the test. Recovery was rapid, with 70% recovery of the initial water column occurring within five minutes, and 95% recovery within 60 minutes of the end of the test.

According to MECP Guideline D-5-5, the per-person water requirement is 450 L/day (though recent data shows that actual per-person usage in Ontario is approximately 225 L/day), with peak demand occurring for a period of 120 minutes each day. Based on a 3-bedroom household with an occupancy



of 4 persons, this is equivalent to a peak demand of 15 L/min. The tested well was able to sustain 6 hours of continuous pumping at a rate exceeding the estimated peak demand.

Given the sustainable pumping rate observed and the rapid recovery of the water column, we conclude that there is sufficient water availability to support the proposed severance. The tested yield is considered to be representative, and the well is expected to be able to meet normal residential water demand during the dry summer months.

4.2.2 B 27/22 (East Severance)

The pumping test on well A321307 was started at 2:29 PM on June 6, 2023 at a rate of 20 L/min. The well sustained this rate until termination of the test after 503 minutes (and a total of 9,890 L had been pumped from the well). The total drawdown in the well was 0.43 m and recovery was rapid, suggesting that this well has a yield in excess of 20 L/min.

According to MECP Guideline D-5-5, the per-person water requirement is 450 L/day (though recent data shows that actual per-person usage in Ontario is approximately 225 L/day), with peak demand occurring for a period of 120 minutes each day. Based on a 3-bedroom household with an occupancy of 4 persons, this is equivalent to a peak demand of 15 L/min. The tested well was able to sustain 6 hours of continuous pumping at a rate exceeding the estimated peak demand.

Given the sustainable pumping rate observed and the rapid recovery of the water column, we conclude that there is sufficient water availability to support the proposed severance. The tested yield is considered to be representative, and the well is expected to be able to meet normal residential water demand during the dry summer months.

4.3 Water Quality

4.3.1 B 26/22 (West Severance)

For well A321308, an adverse bacterial result was noted. Total Coliform and E. Coli results could not be counted due to overgrowth of the petri dish. Turbidity was also elevated, at 18.4 NTU. The elevated Turbidity is believed to be the result of incomplete well development (related to the low yield) and not reflective of the bedrock aquifer. Follow-up resamples were not taken because a new well was drilled for this proposed severance.

For well A320558, a Total Coliform exceedance of 6 CFU was observed. The well was chlorinated to a free chlorine residual of approximately 40 mg/L and was resampled after the concentration of free chlorine was confirmed to be below the detection limit of our free chlorine colorimeter. The result of the resample was acceptable.

No other water quality concerns were identified based on our sampling. According to the results of the neighbour survey, the groundwater is of generally good quality, with no objectionable taste, odour, or colour. Ultraviolet sterilization would still be recommended as a minimum level of in-home water treatment for the proposed severance.



4.3.2 B 26/22 (East Severance)

For well A321307, a Total Coliform exceedance of 10 CFU was observed. The well was chlorinated to a free chlorine residual of approximately 40 mg/L and was resampled after the concentration of free chlorine was confirmed to be below the detection limit of our free chlorine colorimeter. The result of the resample was acceptable.

No other water quality concerns were identified based on our sampling. According to the results of the neighbour survey, the groundwater is of generally good quality, with no objectionable taste, odour, or colour. Ultraviolet sterilization would still be recommended as a minimum level of in-home water treatment for the proposed severance.

4.4 Potential for Well Interference

The radius of influence (r, metres) between a pumped well and the neighbouring properties may be estimated using the estimated value for Q (i.e., the average amount pumped per day in litres) and the average recharge (R, mm per year) to the aquifer according to:

$$Q = \frac{R\pi r^2}{365}$$
[1]

This calculation using Equation 1 yields a zone of influence distance of less than 30 m based on a shallow bedrock well, pumping at a rate of 1,000 L/day over the course of a year.

We note that the fractured bedrock aquifer does not behave in the same way as an ideal porous media. Localized zones of higher permeability will be associated with a locally greater radius of influence, while lower permeability zones will have a correspondingly reduced radius of influence.

During each of the pumping tests, the other test well was monitored for well interference, along with the residential well at 349 Boundary Road. No response was noted in any of the wells for any of the pumping tests. Given the high yield and limited drawdown in Well A321307 and A320558, no well interference issues are expected under normal residential use.

4.5 Onsite Sewage Treatment

Under MECP Guideline D-5-4, nitrate loading is to be assessed for the full development parcel (i.e., the combined area of the two proposed lots) rather than for individual lots. However, practice within Hastings County has been to apply D-5-4 to individual severances and this is the approach we have followed. The concentration of nitrate at the property boundary of the smaller proposed severance (i.e., B 27/22, or the east severance) was calculated in accordance with MECP Guideline D-5-4 for individual onsite sewage systems:

$$C_T = \frac{(Q_e \times C_O) + (Q_R \times C_R)}{Q_R + Q_O}$$

Where:

 C_T = Nitrate concentration at property boundary (mg/L as N)

Q_e = Sewage Effluent Volume (L/day)



- C_e = Nitrate concentration of sewage effluent (mg/L as N)
- Q_R = Groundwater recharge or precipitation infiltration (L/day)
- C_R = Nitrate concentration of groundwater recharge (mg/L as N)

Each of these parameters are discussed as follows:

 Q_0 – Daily sewage flows will be dependent on the number of persons at each residence. Based on a 4 to 5 person household, the daily flow per lot is 1 m³/day (1,000 L/day).

 C_0 – For conventional sewage systems for residential developments, an effluent nitrate of 40 mg/L per building lot is typically assumed for residential developments.

 \mathbf{Q}_{R} - A groundwater recharge rate of 250 mm/year and an area of 0.448 ha yields a groundwater recharge of 3,068 L/day.

 C_R – Nitrate levels in groundwater recharge are ignored since precipitation does not typically contain detectable levels of nitrate.

 C_T - The calculated groundwater nitrate at the property boundary.

These quantities yield a nitrate concentration of less than 10 mg/L in groundwater leaving the property:

$$C_T = \frac{(1,000L \times 40 \ mg/L) + (3,068 \times 0 \ mg/L)}{3,068 + 1,000} = 9.8 \ mg/L$$

Because the smaller of the two severances meets D-5-4 criteria with respect to nitrate loading, the larger proposed severance must also meet nitrate loading criteria.

Site conditions are considered suitable for the construction of a private septic system. Such systems must be constructed in accordance with Section 8 of the Ontario Building Code and must meet the following setback distances:

Table 9: Minimum Clearance	s for Distribution Piping
----------------------------	---------------------------

Object	Minimum Setback (m)
Structure	5
Well with a watertight casing to a depth of 6 m	15
Any other well	30
Pond	15
Stream	15
Property Line	3

We note that the casing sealing records for the new wells on the proposed severances indicate that the casings are grout-sealed only to 3 m depth: **therefore, a minimum 30 m separation is required between the wells and any future septic system**.

4.6 Karst

Brunton and Dodge (2008) published a karst map for southern Ontario and Manitoulin Island that breaks down karst potential into four categories:



- areas of known karst (red)
- areas of inferred karst that are a natural extrapolation of the known karst areas (orange)
- areas of potential karst (yellow)
- areas of unknown or no observed karst

The proposed severance is mapped as an area of potential karst.

Karst forms a continuum from minimally enhanced fracture permeability to interconnected caves systems where voids represent the majority of the rock mass. Just as karst forms a continuum, so does the associated hazard (Fleury, 2009). Groundwater contamination is typically the dominant source of karst-related risk in immature karst terrains while risk to the structural integrity of buildings and infrastructure becomes an increasing component of karst-related risk in more mature terrains. Risks to groundwater supplies are the main concern in Ontario and this is the main concern for the southern proposed severance at the subject site.

No evidence of karst features was noted at the subject site. The thickness of overburden (> 3 m) is sufficient to reduce any karst-related risk to groundwater.

5. Summary

The purpose of the work was to determine soil and groundwater conditions at the site and to demonstrate that the property can accommodate private sewage treatment/disposal systems in accordance with Provincial standards without affecting surrounding private water sources.

Our assessment found the following:

B 26/22 (West Severance)

- 1. The old drilled well (A321308) on the west proposed severance (B 26/22) did not produce enough yield to meet MECP Guideline D-5-5 requirements. It was replaced with well A320558, which was found to produce adequate yield to meet D-5-5 requirements and support the proposed severance.
- 2. The yield test is considered to be representative, and the well is expected to meet the needs of the proposed severance during the dry summer months.
- Water quality results showed that the sample had a marginal exceedance for Total Coliform, but was otherwise of good quality. After chlorination and resampling, the water was found to be within ODWS limits.
- 4. Well testing did not demonstrate any adverse impacts with the surrounding neighbouring wells or natural ecological features. Well interference is not anticipated to be a concern based on the results of this assessment.
- 5. The proposed severed lot is large enough to accommodate a Class 4 septic system to meet projected design flows for a 3- or 4-bedroom home. Nitrate dilution calculations demonstrate that the severance is large enough to meet reasonable use criteria with respect to nitrate in groundwater leaving the property.
- 6.

B 27/22 (East Severance)

- 7. The drilled well (A321307) on the east proposed severance (B 27/22) has sufficient yield to support a residential dwelling.
- 8. Water quality results showed acceptable water quality during the 6-hour pumping test, and laboratory analysis showed no health-related exceedances. The well is considered suitable as a potable water supply, though ultraviolet sterilization and water softening are recommended.
- 9. Well testing did not demonstrate any adverse impacts with the surrounding neighbouring wells or natural ecological features. Well interference is not anticipated to be a concern based on the results of this assessment.
- 10. The proposed severed lot is large enough to accommodate a Class 4 septic system to meet projected design flows for a 3- or 4-bedroom home. Nitrate dilution calculations demonstrate that the severance is large enough to meet reasonable use criteria with respect to nitrate in groundwater leaving the property.

We note that Well A321308 is not suitable for potable water supply, and this well must be abandoned in accordance with O.Reg. 903.

All of which is respectfully submitted.

THE GREER GALLOWAY GROUP INC. CONSULTING ENGINEERS

Kirby Magee-Dittburner, E.I.T. Junior Hydrogeologist



Charles Mitz, M.Eng., Ph.D., P.Geo Senior Project Manager



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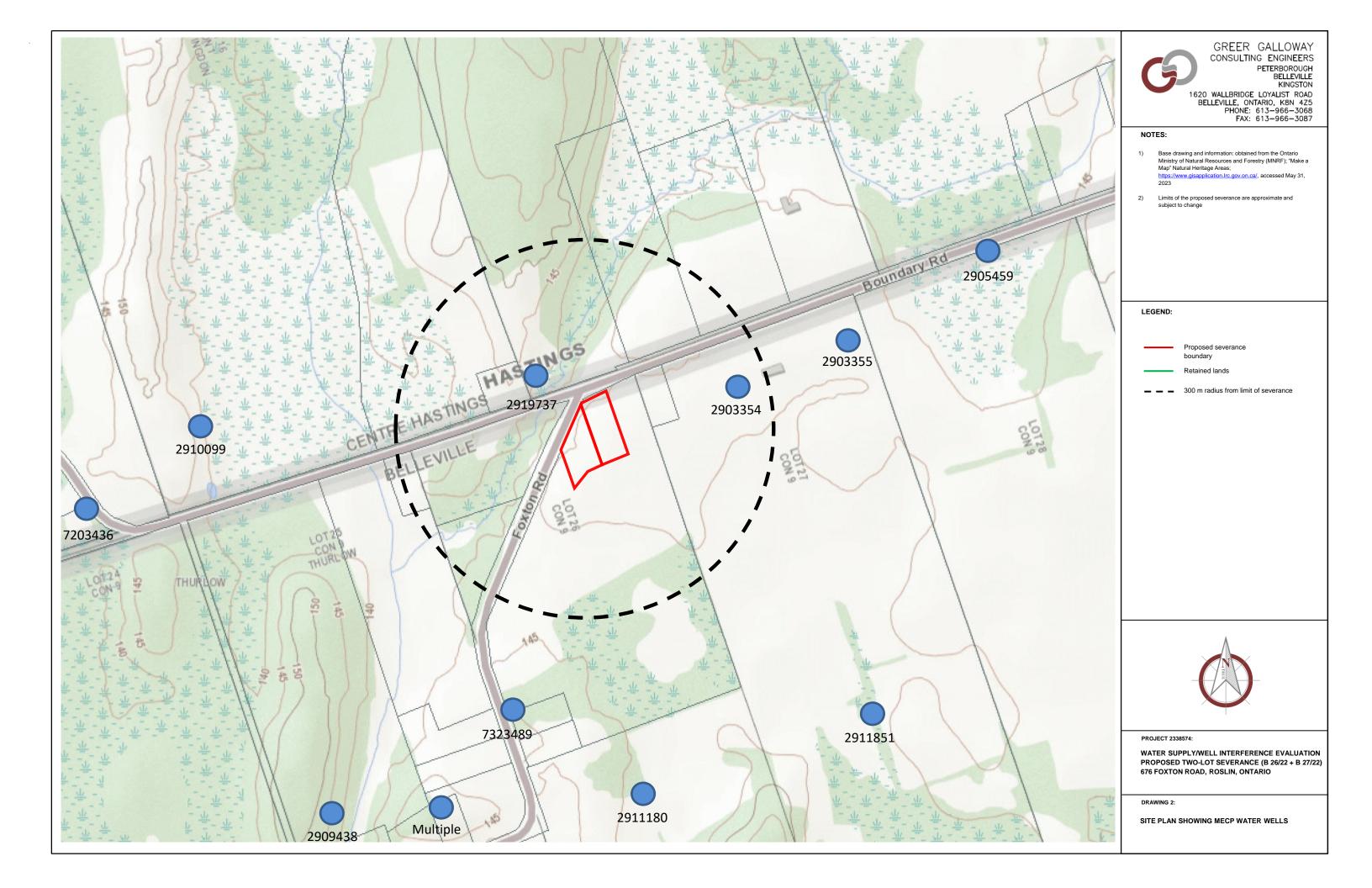
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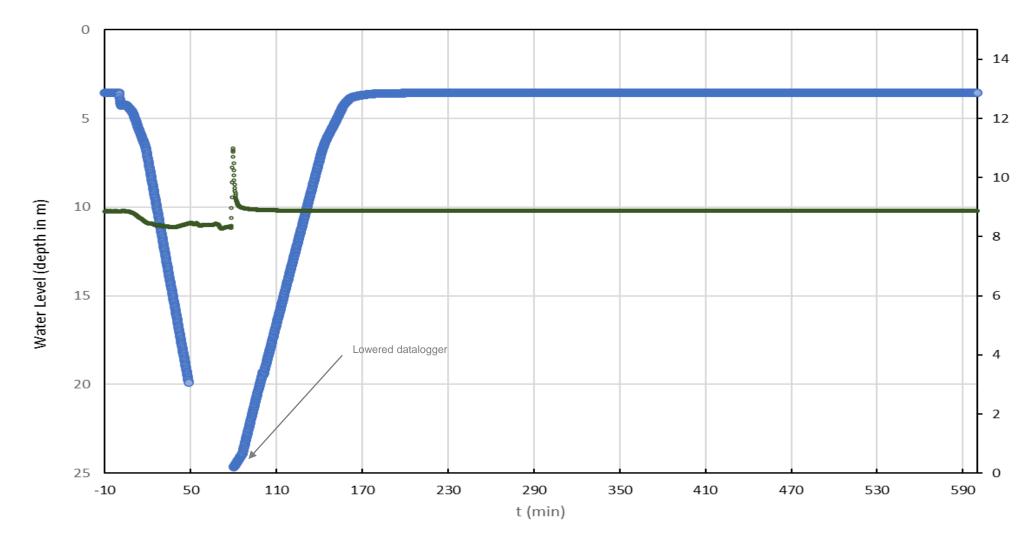
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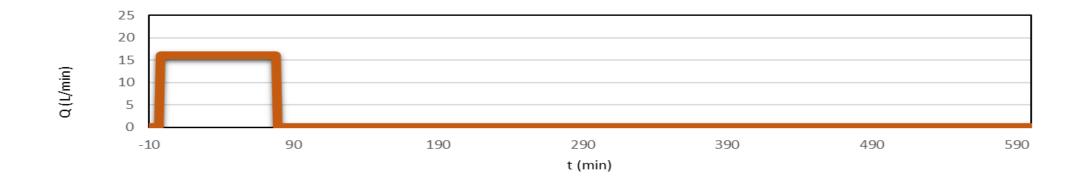


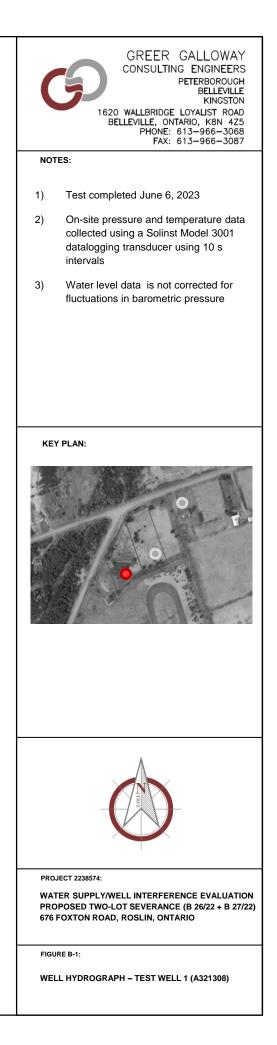


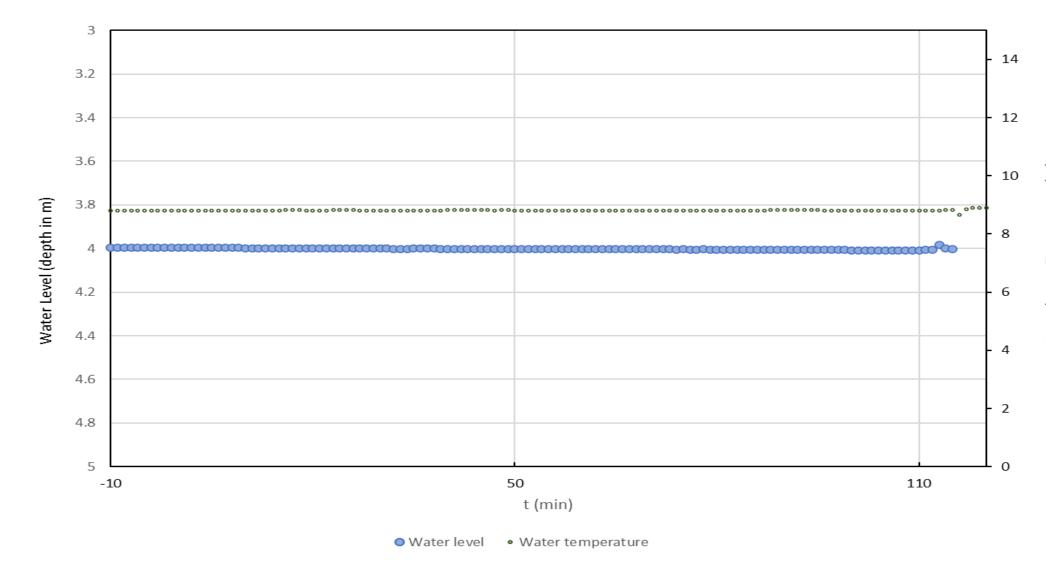


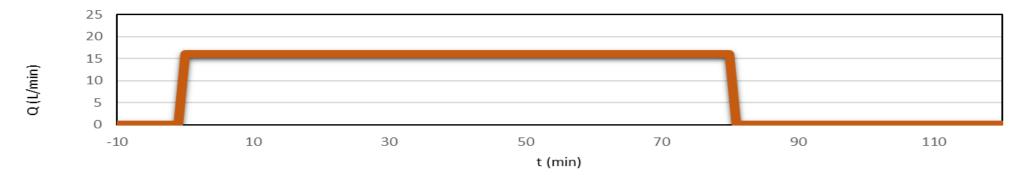


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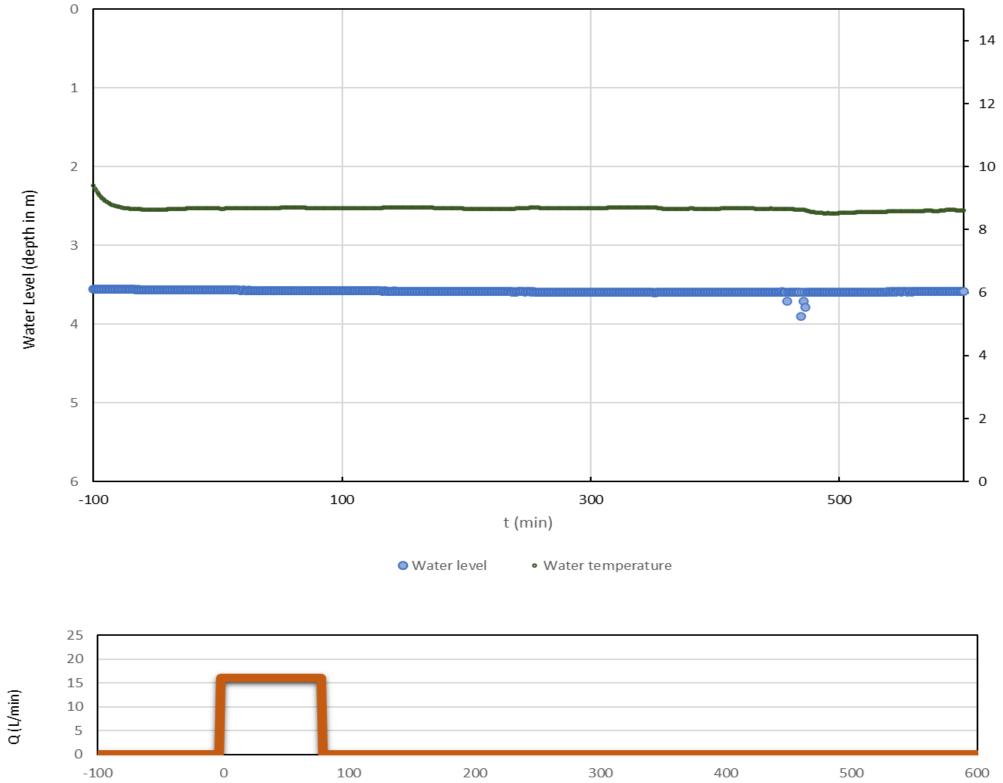






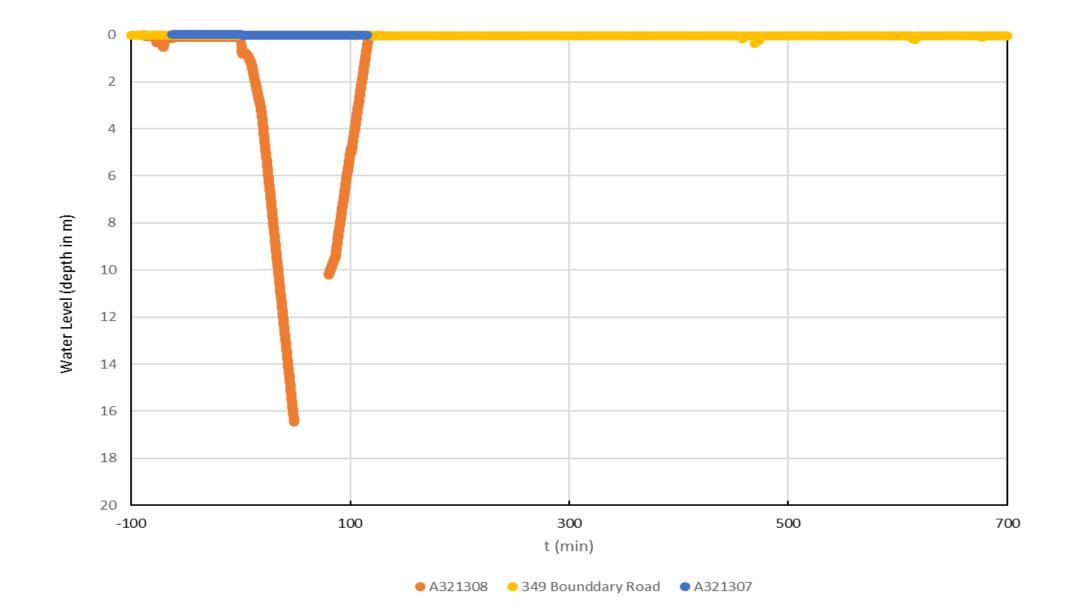


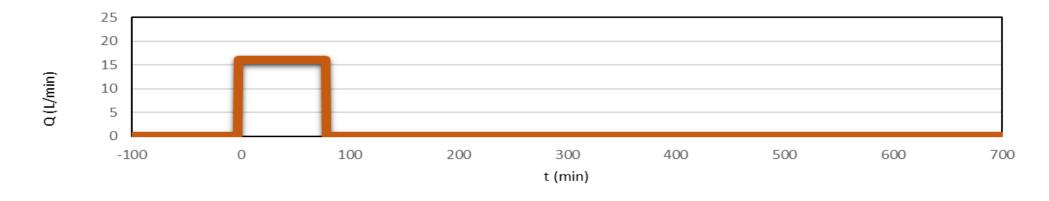


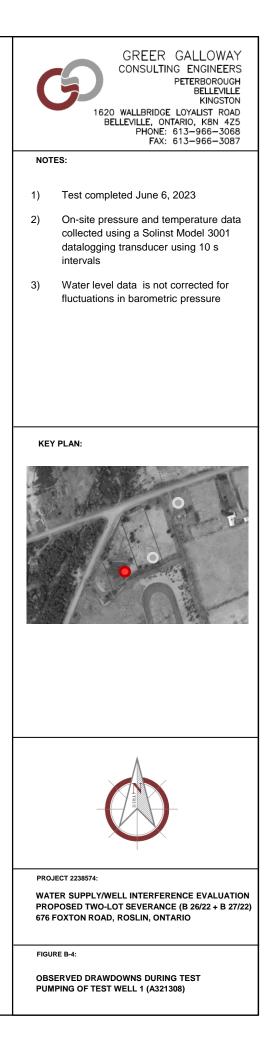


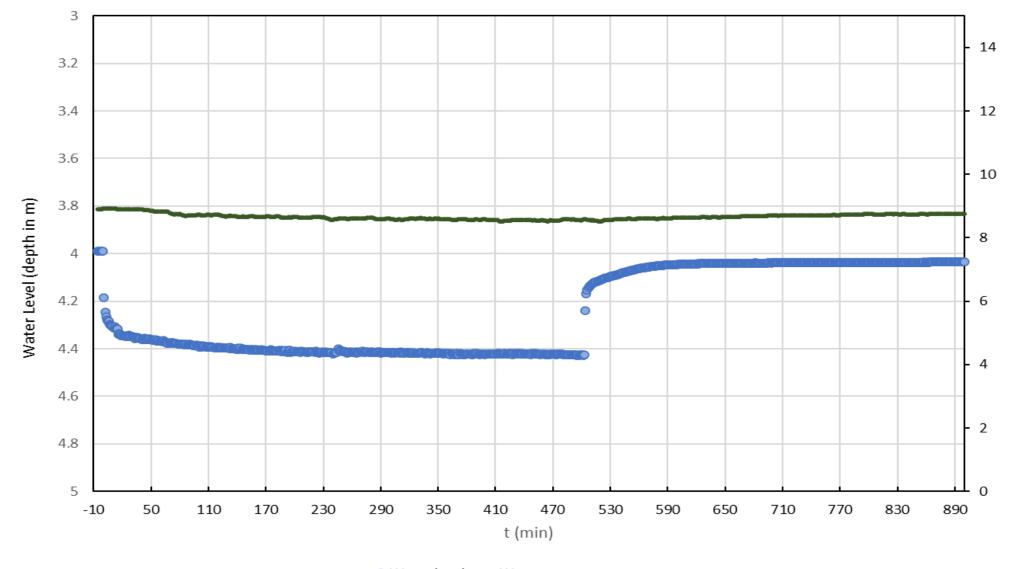
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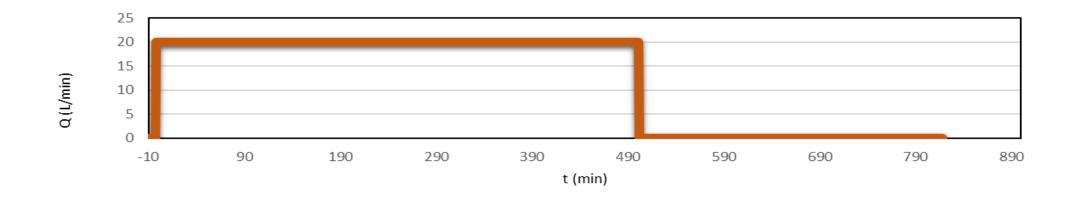






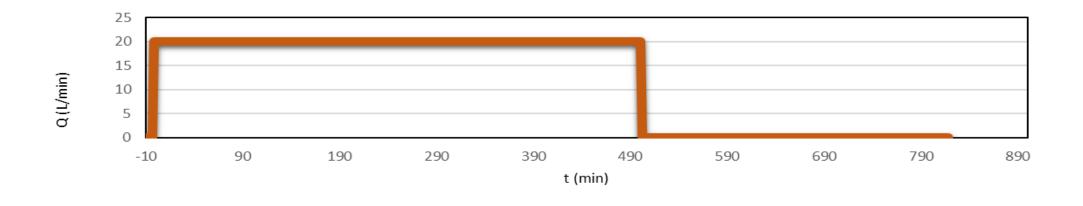


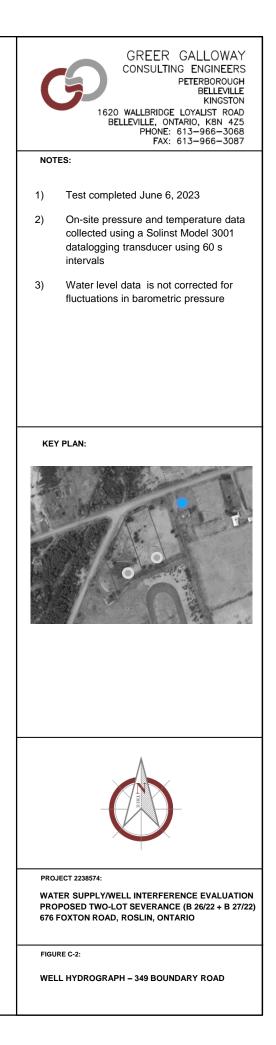
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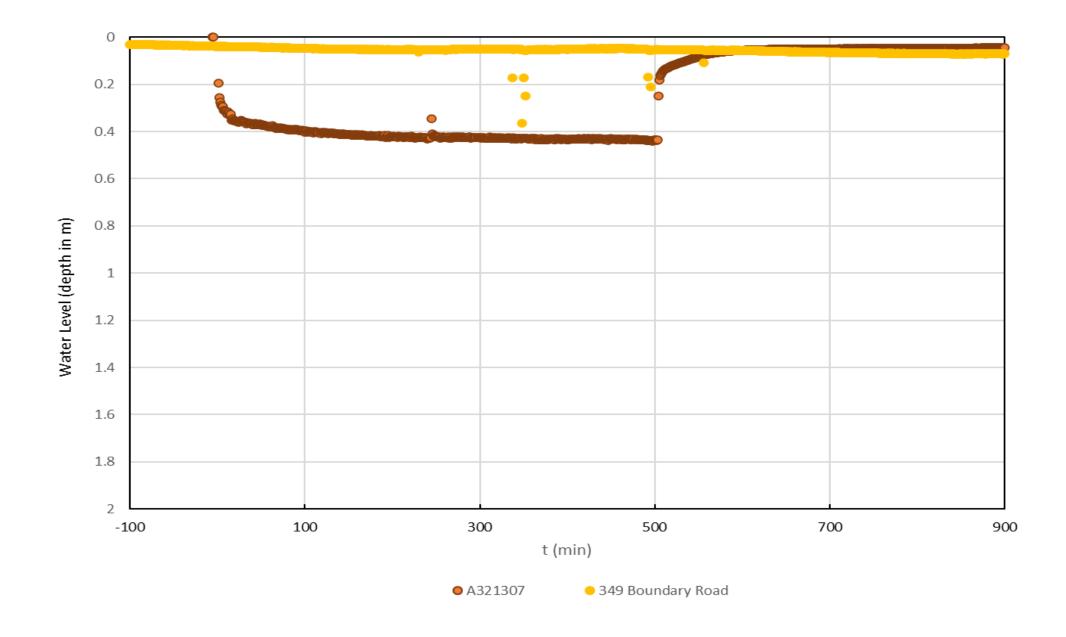


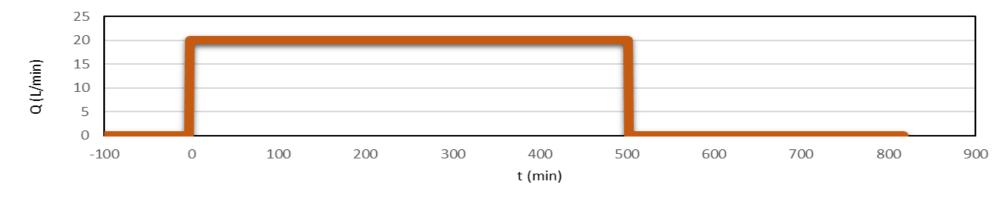


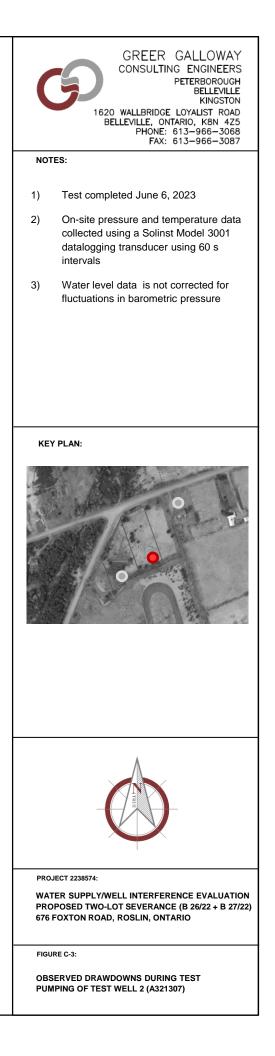
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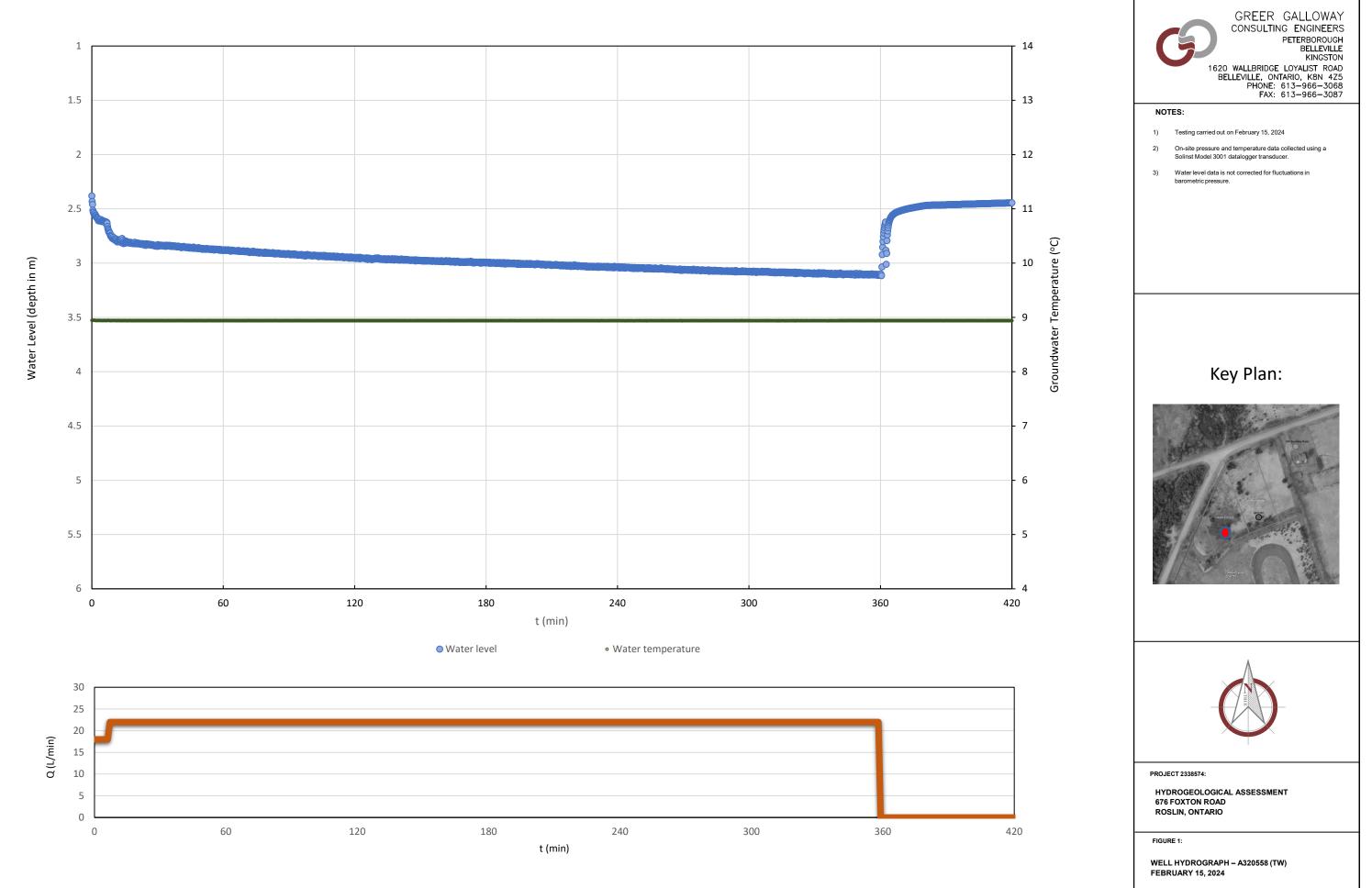


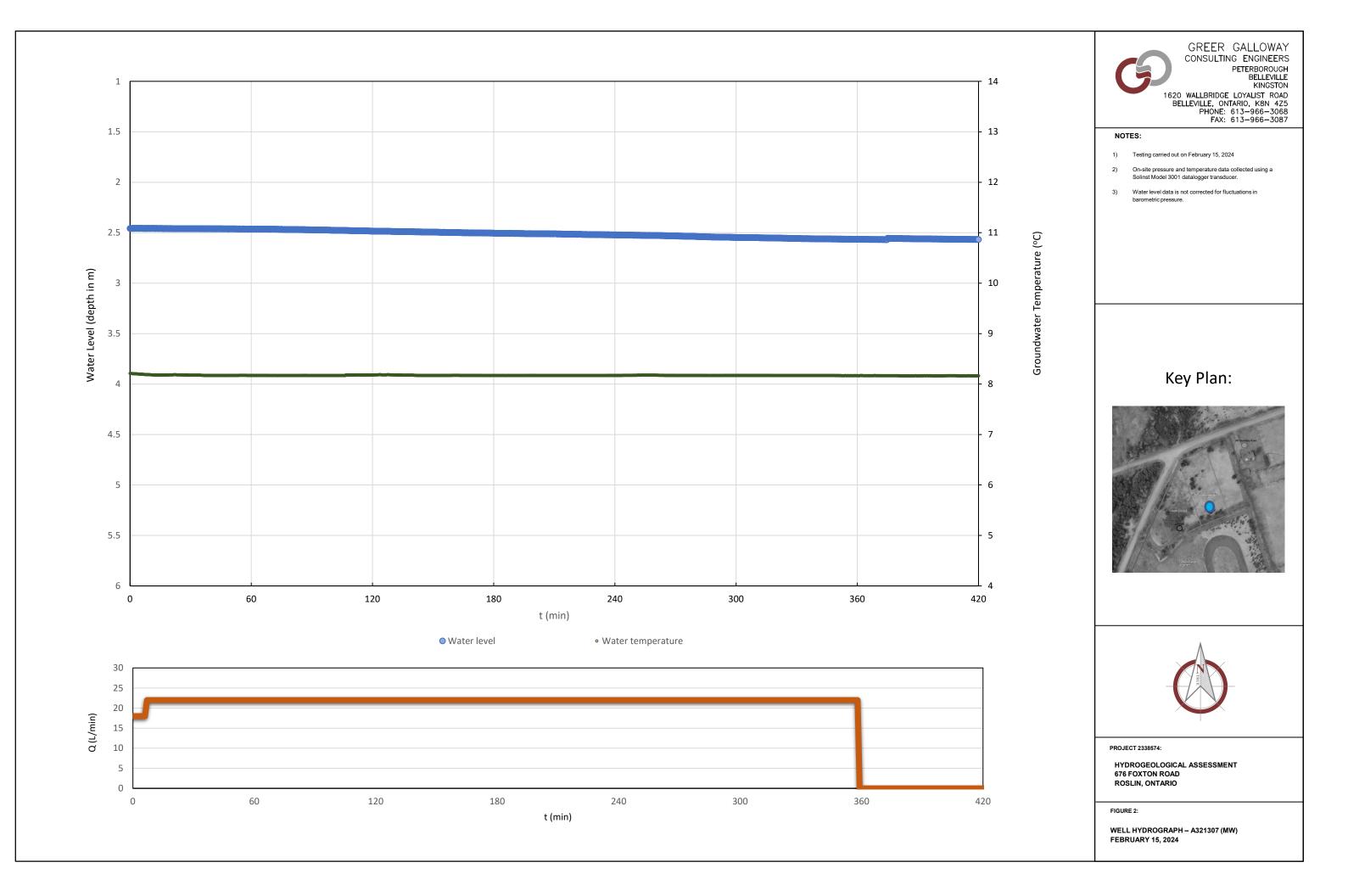












Appendix A MECP Water Well Records

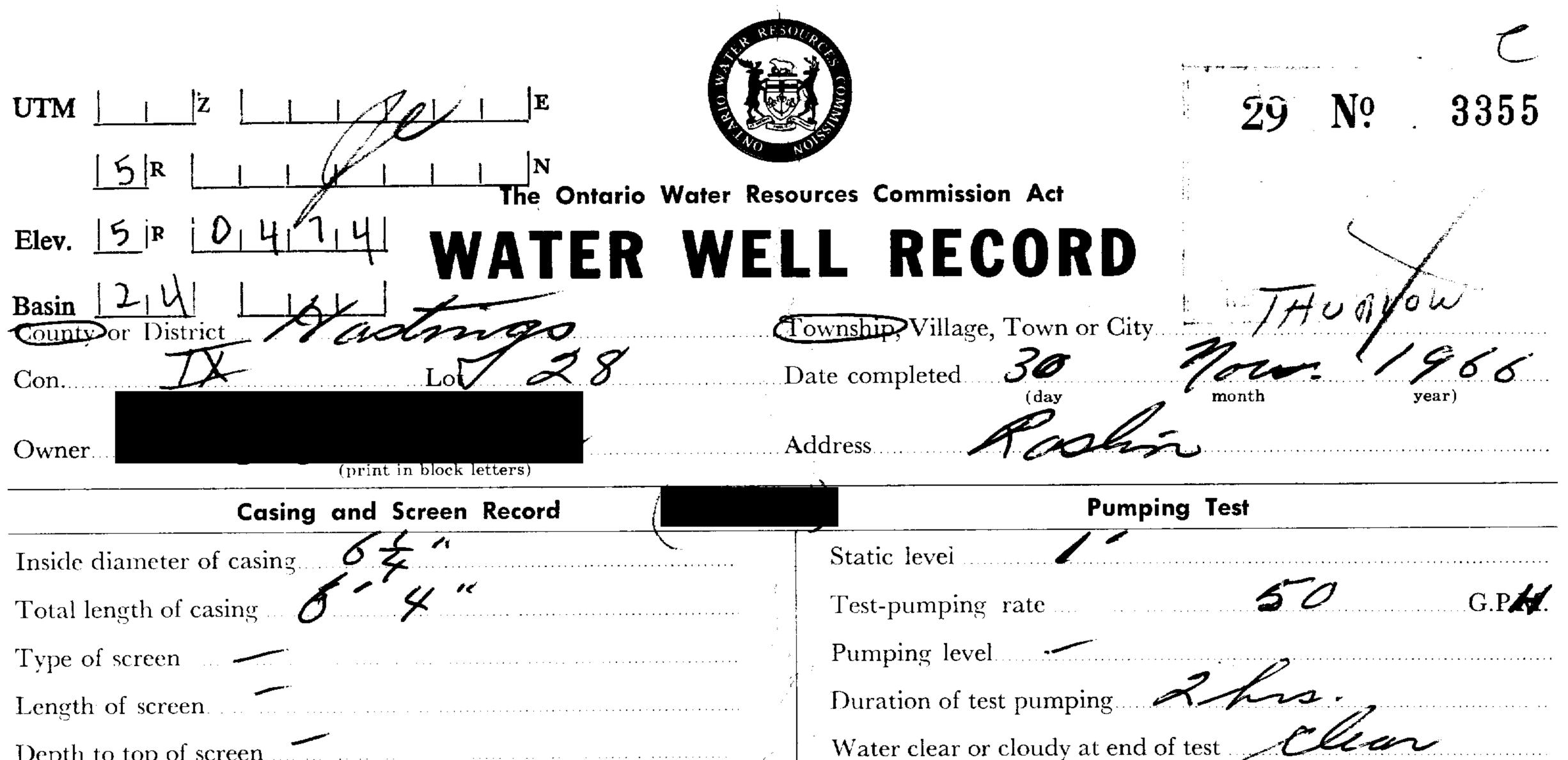
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Measureme Well Own			etric 🖸 Im	perial	F	100/100]	Pa	ge_/	of A
First Name			ist Name/Org	anization			E-mail Address				Constructed
Mailing Addr	ress (Stree	Number/Name	BELL		M	unicipality	Province	Postal Code	Telephor	ne No. (inc. i	II Owner area code)
676 Well Loca	FO)	TON	ROA	D	1	ROSLIN	ON	KOKA	YOL		
Address of V	Nell Locatio	on (Street Numb	per/Name)		To	ownship		Lot	Concess	sion	
County/Dist	5 FC	XTON	ROF	DF	C	ity/Town/Village			Province	Postal	Code
HAS	TIN	2-31			F	ROSLIN			Ontario	KO	Kayo
NAD	inates Zon	Easting		hing		unicipal Plan and Subl	ot Number		Other		
Overburde General Co			Is/Abandon	ment Seal	ing Recor	rd (see instructions on t		eral Description		Dept	h (m/ft) To
RIDC	1.	Most Commo	on Material		Othe	er Materials	Gene	and Description		From	NC
RPN.	1 1	OP SOI	L	DI	XXX		SOFT			0.5	ins
GRE	VI	INEST	DNE	N	the	>	HARD			IDIS	100
							1.111-52			10.0	
			Annular S				and the second s		ell Yield Testir		
Depth Se From	t at (m/tt) To		Type of Seala (Material and			Volume Placed	After test of well yield,		Draw Down Time Water L (min) (m/ft	evel Time	Water Level (m/ft)
20	10	STON	-			3,2	Other, specify	ed, give reason:	Static Level 6.6) (((((((((((((((((((((((((((((((((((((9.2
10	0	HOLE	PLUG	5		3.2	/		1 7 -	2 1	71
							Pump intake set at (m	Ð	27.8	3 2	6.9
Math	ad at Ca	nstruction			Well Use	0	Pumping rate (Vmin / C	GPM)	3 8 2	3	6.8
Cable Too	bl	Diamond	Publi		Commen	cial Not used	Duration of pumping		4 85	4	6.7
Rotary (C		Jetting	Dom Lives	tock [Municipa Test Hole	Monitoring	hrs +	min	5 8,0	5	6.6
Air percus	ssion	Digging	Irriga	striał	Cooling 8	& Air Conditioning	Final water level end	of pumping (m/fl	10 9.0	2 10	6.6
Other, spe		nstruction Re	Othe			Status of Well	If flowing give rate (Vm	nin/GPM)	15 9.2	2 15	6.6
Inside	Open Hol	e OR Material	Wall	Depth (m/ŋ)	Water Supply	Recommended pump	o depth (m/ft)	20 9.0	2 20	6.6
Diameter (cm/in)		Plastic, Steel)	Thickness (cm/in)	From	То	Replacement Well Test Hole	Recommended pump	o rate	25 9.2	25	6.6
614	STE	EL	.188	-2	20	Recharge Well Dewatering Well	(l/min/GPM)		30 9.2 40 9.2	2 30 2 40	6.6
	SLOT	TED		19	20	Observation and/or Monitoring Hole	Well production (Vmin	(CPM)	50 0	2 40	6.b
						Alteration (Construction)	Disinfected?		60 9	2 60	6.6
	Co	nstruction Re	cord - Scree	n		Abandoned, Insufficient Supply	Gres [] No	Map of V	Vell Location	2 00	6.6
Outside Diameter	M	aterial	Slot No.	Depth (Water Quality	Please provide a ma			on the bac	k.
(cm/in)	(Plastic, Ga	vanized, Steel)		From	То	specify			RDAL		
						Other, specify	801	NAAR	Y ROAL	1	
		Water Deta	ile		н	ole Diameter		1	34		
		Kind of Water:		Untested	Dept	h (m/(i)) Diamete To (cm/n)		2/	$\rightarrow \infty$		
13 (m) Water found	at Depth	Other, speci Kind of Water:		Untested	From	100 6	1 /5	=/ 4S	0'		
		Other, speci Kind of Water:		-	D	20 10	CROAL	/			
25	at Depth	Conternation Conte		Untested	0	10	1 /5/				
Business Na		ell Contractor	and Well To	echnician			HOXIO				
MPI	DR	ILLIN	6		F	Il Contractor's Licence N	11 / /				
Business Ad	dress (Stre	Number/Nam	ne)		Mu	nicipality	Comments: SEE	ATTAC	HED N	1AP	
	r bl	ostal Code	Business B	E-mail Addre	355	ICTON					
Province		NYDTT	JINTO	emp	10/11	First Name	Information	Package Delive	Audit	No. 72 (e Only
Province ON Bus. Telephor	ne No. (inc.	area code) Nan	ne of Well Teo	crinician (La	DI NUITE, I						
Province ON Bus. Telephon 6132	ne No. (inc.	1655	SCRIF		Bat	te Submitted		Work Complete		233	12020

measurem	ents recorde	d in: 🔲 M	Netric 🗗	Imperial		A32130	8			Page	-	of_0
	ner's Infor											
First Name			ast Name/O	rganization			E-mail Address					Constructe ell Owner
Mailing Add	dress (Street		16) P. P. C. C	10		Municipality	Province	Postal Code	Te	lephone M	No. (inc.	area code
676 Well Loci	ation	101	ROF	+D		KODLIN	ON	roka	40			
	Well Location		-	~		Township		Lot	C	oncession	1	
County/Dis	FOX		ROA	D		City/Town/Village			Province		Postal	
HAS	dinates Zone	Easting	N	orthing		ROSLIN Municipal Plan and Sub	ot Number		Ontar	10	K0	(27)
	0315	SID	1274	912	531							
General C			als/Abando			ord (see instructions on t ther Materials		eral Description	1		Dep	th (m/ft) To
BLAC	K						SOFT				D	0.5
	UNS	AND		C	RAV	EL	SOFT			(2,5	10
GRE	YG	RAVE	EL		10110	0	HARD				10	12.
GRE			TONE	Ξ			HARD			1	2.5	100
							-					
	-		Annular	and the second sec		1		Results of W				
Depth S From	Set at (m/(t))		Type of Sea (Material an			Volume Placed	After test of well yield,		Time W		Time	ecovery Water Leve
0	10	HOLE	PLU	G		3.2	Other, specify	ed nive reason:	(min) Static	(m(t))	(min)	(m/f))
10	20	STO	VE			3.2		od, give reducin.	Level 1 (1.F	1	06
										Dick		Dod is
							Pump intake set at (m	n (D)	2	07	2	70 -
							98	0	2	8.7 a c	2	79.7
	thod of Con			iblic	Well U		Pump intake set at (m 98 Pumping rate (Vmin /	0		8.7 9.5		79,7
Cable To	ool Conventional)	Diamond Jetting	Do	mestic	Comm	percial Not used	Pumping rate (Vmin /	0	3 (8.7 9.5 9.5	3	79.7
Cable To Rotary (I Rotary (I Boring	ool Conventional) Reverse)	Diamono	Do Liv	omestic vestock gation	Comm Munici	percial Not used	Pumping rate (Vmin /	GPM) min	3 (8.7 9.5 9.5 0.7	3 4	79.7 77.9 75 72.9
Cable To Rotary (I	ool (Conventional) (Reverse) ussion	Diamond Jetting	Do Liv	omestic vestock gation	Comm Munici	ercial Not used pal Dewatering ole Monitoring	Pumping rate (Vmin / C Duration of pumping	min of pumping (mg	3 (14	3 4 5	79.7 77.9 75 72.9 60
Cable To Rotary (I Rotary (I Boring Air percu	col (Conventional) Reverse) ussion pecify Con	Diamono	Do Liv Irri Ott	omestic vestock gation dustrial her, specify sing	Comm Munici Test H	ercial Not used pal Dewatering ole Monitoring g & Air Conditioning	Pumping rate (Vmin / Duration of pumping hrs + Final water level end of If flowing give rate (Vm	min of pumping (n/)	3 (4 5 10 15	14 15,7	3 4 5 10	79.7 77.9 75 72.9 47.0 25
Cable To Rotary (I Boring Air percu Other, sp Inside Diameter	col Conventional) Reverse) ussion pecify Con Open Hole (Galvanized	Diamono Jetting Driving Digging struction R OR Material	ecord - Cas	omestic vestock gation dustrial her, specify sing	Comm Munici	ercial Not used pal Dewatering ole Monitoring g & Air Conditioning	Pumping rate (Imin / Duration of pumping hrs + Final water level end of 8.6	min of pumping (n/)	3 (4 5 10 15 20	14 15,7 20	3 4 5 10 15	79.7 77.9 72.6 60 47.1 35.1
Cable To Rotary (1 Rotary (1 Boring Var perce Other, sy Inside Diamster (cm/m)	col Conventional) Reverse) ussion pecify Con Open Hole (Galvanized Concrete, F	Diamonc Jetting Driving Digging struction R OR Material I, Fibroglass, lastic, Steel)	Do Liv Ind Oth Control	omestic vestock gation dustrial her, specify sing Dept	Comm Munici Test H Coolin h (m/t) To	ercial Not used pal Dewatering ole Monitoring g & Air Conditioning Status of Well Water Supply Replacement Well Test Hole Recharge Well	Pumping rate (Vmin / Duration of pumping <u>hnrs +</u> Final water level and o Bb If flowing give rate (Vm Recommended pump Recommended pump	GPM) min of pumping (n() nin/GPM) p depth (n())	3 (4) 5 (10) 15) 20 (25)	14 15,7 20 41.1	3 4 5 10 15 20 25	79.7 77.9 72.6 60 47.0 35.0 23.7
Cable To Rotary (1 Rotary (1 Boring Var perce Other, sy Inside Diamster (cm/m)	ool (Conventional) Reverse) ussion pecify Con Open Hole (Galvanizer Concrete, F	Diamonc Jetting Driving Digging struction R OR Material (Fibroglass, tastic, Steel)	ecord - Cas	ormestic restock gation tustrial her, specify sing Depti From	h (m(ft)) To	ercial Not used pal Dewatering ole Monitoring g & Air Conditioning Status of Well Water Supply Replacement Well Test Hole Recharge Well Dewatering Well	Pumping rate (Vmin / Duration of pumping hrs + Final water level end of B & If flowing give rate (Vm Recommended pump (Vmin GPM)	min of pumping (n() nin/GPM) p depth (n()) p rate	3 (4) 5 (10) 15) 20 (25)	14 15,7 20	3 4 5 10 15 20 25	79.7 77.6 72.6 60 47.0 35.9 15 85
Cable To Rotary (1 Rotary (1 Boring Var perce Other, sy Inside Diamster (cm/m)	col Conventional) Reverse) ussion pecify Con Open Hole (Galvanized Concrete, F	Diamonc Jetting Driving Digging struction R OR Material (Fibroglass, tastic, Steel)	Do Liv Ind Oth Control	omestic vestock gation dustrial her, specify sing Dept	Comm Munici Test H Coolin h (m/t) To	ercial Not used pal Dewatering ole Monitoring g & Air Conditioning Status of Well Water Supply Replacement Well Test Hole Recharge Well	Pumping rate (Vmin / Duration of pumping <u>hrs +</u> Final water level and o B If flowing give rate (Vm Recommended pump (Vmin GPM) Well production (Vmin	min of pumping (n() nin/GPM) p depth (n()) p rate	3 4 4 5 10 15 20 25 30 6	14 15,7 20 41.1	3 4 5 10 15 20 25 30	79.7 77.7 72.6 60 47.0 35.0 15 8.5 7.1
Cable To Rotary (1 Rotary (1 Boring Var perce Other, sy Inside Diamster (cm/m)	ool (Conventional) Reverse) ussion pecify Con Open Hole (Galvanizer Concrete, F	Diamonc Jetting Driving Digging struction R OR Material (Fibroglass, tastic, Steel)	Do Liv Ind Oth Control	ormestic restock gation tustrial her, specify sing Depti From	h (m(ft)) To	ercial Not used pal Dewatering ole Monitoring 8 Air Conditioning Status of Well Water Supply Replacement Well Dewatering Well Observation and/or Monitoring Hole	Pumping rate (Vmin / Duration of pumping hrs + Final water level end of B & If flowing give rate (Vm Recommended pump (Vmin GPM)	min of pumping (n() nin/GPM) p depth (n()) p rate	3 4 5 10 15 20 25 30 40 40	14 15,7 20 41.1	3 4 5 10 15 20 25 30 40	79.7 77.7 72.4 60 47.1 35.1 8.5 7.1 7
Cable To Rotary (1 Rotary (1 Boring Var perce Other, sy Inside Diamster (cm/m)	conventional) Raverse) ussion pecify Open Hole (Galvanice Concrete, F STE SLOT	Diamonc Jetting Driving Driving Drigging Struction R Material Fibroglass, fastic, Steel)	Do Liv Ind Oth Control	mestic restock gation Justnal her, specify Sing Depli From	h (m(ft)) To	ercial Not used pal Dewatering ole Monitoring g & Air Conditioning Status of Well Water Supply Replacement Well Dewatering Well Observation and/or Monitoring Hole Alteration (Construction)	Pumping rate (Vmin / Pumping rate (Vmin / Duration of pumping hrs + Final water level end of Bb If flowing give rate (Vm Recommended pump (Vmin (PM)) Well production (Vmin Disinfected? Vres No	GPM) min of pumping (n(f ini/GPM) p depth (m(f)) p rate GPM) Map of V	3 (4) 5 10) 15 , 20 , 25 , 30 , 40 , 50 , 60) Vell Local	14 15,7 20 41,1 55,5 82,3 84,8 84,8 84,8	3 4 5 10 15 20 25 30 40 50 60	79.7 71.4 72.4 73.4 74.4 75.4 74.4 74.4 74.4 74.4 74.4 74.4 74.4
Cable Tc Rotary (I Rotary (I Rotary (I Rotary (I Rotary (I Other, sj Inside Diamseer (cm/h) 6.1/4	ool Conventional) Reverse) ussion pecify Open Hole Concrete, F STE SLOT Concrete, F	Diamonc Diamonc Jotting Driving Driving Digging Struction R Artherial Fibroglass, lastic, Steel) EL TED struction R erial	ecord - Cas Wall Thickness (cn/fr)	xmestic restock gation futrial her, specify From - 2 - 19 - 19 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	Comm Munici Test H Coolin To ZO ZO A (m/ft)	ercial Not used pal Dewatering ole Monitoring g & Air Conditioning Water Supply Replacement Well Dewatering Well Observation and/or Monitoring Hole Alteration (Construction) Abandoned, Insufficient Supply	Pumping rate (Vmin / Duration of pumping In rs + Final water level end of B b If flowing give rate (Vm Recommended pump (Vmin GPM) Well production (Vmin Disinfected? Vros No	CPM) min of pumping (n() inn/GPM) p depth (m()) p rate PM) Map of V ap below follow	3 4 4 5 10 10 15 1 20 2 30 4 50 60 Vell Location	14 15,7 20 41,1 55,5 82,3 84,8 84,8 86 86	3 4 5 10 15 20 25 30 40 50 60	79.7 71.4 72.4
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Cable Tc Rotary (I Rotary (I Rotary (I Rotary (I Rotary (I Other, sj Inside Diamseer (cm/h) 6.1/4	ool Conventional) Reverse) ussion pecify Open Hole Concrete, F STE SLOT Concrete, F	Diamonc Diamonc Jotting Driving Driving Digging Struction R Artherial Fibroglass, lastic, Steel) EL TED struction R erial	ecord - Scr Slot No.	xmestic restock gation futrial her, specify From - 2 - 19 - 19 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	Comm Munici Munici Test H Coolin To ZO ZO A (m/ft) To To To To To To To To	ercial Not used pal Dewatering ole Monitoring g & Air Conditioning Status of Well Water Supply Replacement Well Dewatering Well Dewatering Well Dewatering Well Dewatering Well Alteration (Construction) Abandoned, Insufficient Supply Abandoned, other, specify	Pumping rate (Vmin / Duration of pumping In this + Final water level end of B b If flowing give rate (Vm Recommended pump (Vmin GPM) Well production (Vmin Disinfected? Ves No Please provide a ma BOUNT	CPM) min of pumping (n() inn/GPM) p depth (m()) p rate PM) Map of V ap below follow	3 4 4 5 10 10 15 1 20 2 30 4 50 60 Vell Location	14 15,7 20 41,1 55,5 82,3 84,8 84,8 86 86	3 4 5 10 15 20 25 30 40 50 60	₹9.5 ₹1.4 ₹2.4 60 47.4 32.5 8.5 ₹1.1 ₹1.1 ₹1.1
Cable Tc Rotary (I Rotary (I Rotary (I Doffer Stary) Control C	ool Conventional) Reverse) ussion pecify Con Concrete, F STCE SLO7 Con Reverse Concrete, F Concrete, F	Diamonc Diamonc Distring Driving Drigging Struction R OR Maternal Fabroglass, fastic, Steel) EL TED struction R erial anized, Steel) Water Det Gind of Water	ecord - Scr Slot No.	xmestic restock gation fustrial her, specify From Depti From Depti	Comm Munici Munici Test H Coolin To Q Q Q Q Q D	ercial Not used pal Dewatering ole Monitoring g & Air Conditioning Status of Well Water Supply Replacement Well Dewatering Well Dewatering Well Observation and/or Monitoring Hole Alteration (Construction) Abandoned, other, specify Other, specify Hole Diameter pth (m(t)) Diameter	Pumping rate (Vmin / Duration of pumping In this + Final water level end of B b If flowing give rate (Vm Recommended pump (Vmin GPM) Well production (Vmin Disinfected? Ves No Please provide a ma BOUNT	CPM) min of pumping (n() inn/GPM) p depth (m()) p rate PM) Map of V ap below follow	3 4 4 5 10 10 15 1 20 2 30 4 50 60 Vell Location	14 15,7 20 41,1 55,5 82,3 84,8 84,8 86 86	3 4 5 10 15 20 25 30 40 50 60	79.7 77.4 72.4 42.4 60 47.1 23.5 7.1 7.1 7.1
Cable Tc Rotary (I Rotary (I Rotary (I Borjeg Pr/fr perc. Other, sj Inside Diameder Cable Tc Inside Diameder Cottside Diameter (cm/h) Cottside Diameter (cm/h) Water foun	ool Corventional) Reverse) ussion pecify Open Hole (Calvanzec Concrete, F STC SLO7 Con Mai (Plastic, Galv	Diamonc Diamonc Diamonc Diving Driving Drigging struction R Material Fibroglass, lastic, Steel) EL struction R orial anized, Steel) Water Det Gother, spe	ecord - Scr Slot No.	mestic restock gaton justrial her, specify From Ceen Depti From	Comm Munici Munici Test H Coolin To Q Q Q Q Q C	ercial Not used pal Dewatering ole Monitoring g & Air Conditioning Status of Well Water Supply Replacement Well Dewatering Well Dewatering Well Observation and/or Monitoring Hole Alteration (Construction) Abandoned, other, specify Abandoned, other, specify Hole Diameter pth (m(t)) Diameter	Pumping rate (Vmin / Duration of pumping In hrs + Final water level end of Bb Recommended pump (Vmin GPM) Well production (Vmin Disinfected? Vres No Please provide a ma BDUNT	CPM) min of pumping (n() inn/GPM) p depth (m()) p rate PM) Map of V ap below follow	3 4 4 5 10 10 15 1 20 2 30 4 50 60 Vell Location	14 15,7 20 41,1 55,5 82,3 84,8 84,8 86 86	3 4 5 10 15 20 25 30 40 50 60	₹9.5 ₹1.4 ₹2.4 60 47.4 35.4 15 8.5 ₹.1 ₹.1 ₹.1 ₹.1 ₹.1 ₹.1 ₹.1 ₹.1
Cable Tr. Cable Tr. Cable Tr. Rotary (I Borjeg Vor perc. Other, sj Inside Diameter (cm(6)) G 1/4 Outside Diameter (cm/n) Water foun J4 (m Water foun 36 (m)	ool Corventional) Reverse) ussion Open Hole (Galvanizec Concrete, F SLO7 Con Mai (Plastic, Galv	Diamonc Diamonc Diamonc Disting Driving Drigging Struction R OR Material Fibreglass, iastic, Steel) EL TED struction R erial anized, Steel) Water Det dind of Water Other, spe Other, spe	ecord - Scr Slot No.	mestic restock gation fustrial her, specify From Ceen Depti From Depti From	Comm Munici Test H Coolin To 20 20 20 20 Coolin from To De From 20 20 Coolin	ercial Not used pal Dewatering ole Monitoring g & Air Conditioning Status of Well Status of Well Monitoring Test Hole Recharge Well Dewatering Well Observation and/or Monitoring Hole Alteration (Construction) Abandoned, Poor Water Quality Abandoned, other, specify Other, specify Other, specify Hole Diameter Diameter pth (m(ft)) Diameter (COC) 6	Pumping rate (Vmin / Duration of pumping In hrs + Final water level end of Bb Recommended pump (Vmin GPM) Well production (Vmin Disinfected? Vres No Please provide a ma BDUNT	CPM) min of pumping (n() inn/GPM) p depth (m()) p rate PM) Map of V ap below follow	3 4 4 5 10 10 15 1 20 2 30 4 50 60 Vell Location	14 15,7 20 41,1 55,5 82,3 84,8 84,8 86 86	3 4 5 10 15 20 25 30 40 50 60	79.7 72.4 72.4 60.4 7.5 7.1 7.1 7.1 7.1 7.1 7.1
Cable Tr Cable Tr Cable Tr Rotary (I Rotary (I Rotary (I Coher, sj Inside Diamser (cm(6)) 6/1/4 Outside Diameter (cm/n) Water foun /4 (rr Water foun 3/6 (rr) Water foun	ool Corventional) Reverse) ussion Open Hole (Galvanizer Concrete, F SLO7 SLO7 Con Mai (Plastic, Galv	Diamonc Diamonc Diamonc Disting Driving Drigging Struction R OR Material Fibreglass, iastic, Steel) EL TED struction R erial anized, Steel) Water Det dind of Water Other, spe Other, spe	ecord - Scr Slot No.	mestic restock gation fustrial her, specify From Ceen Depti From Depti From	Comm Munici Test H Coolin To 20 20 20 20 Coolin from To De From 20 20 Coolin	ercial Not used pal Dewatering ole Monitoring g & Air Conditioning Status of Well Water Supply Replacement Well Dewatering Well Dewatering Well Observation and/or Monitoring Hole Alteration (Construction) Abandoned, other, specify Abandoned, other, specify Hole Diameter pth (m(t)) Diameter	Pumping rate (Vmin / Duration of pumping In hrs + Final water level end of Bb Recommended pump (Vmin GPM) Well production (Vmin Disinfected? Vres No Please provide a ma BDUNT	CPM) min of pumping (n() inn/GPM) p depth (m()) p rate PM) Map of V ap below follow	3 4 4 5 10 10 15 1 20 2 30 4 50 60 Vell Location	14 15,7 20 41,1 55,5 82,3 84,8 84,8 86 86	3 4 5 10 15 20 25 30 40 50 60	79.7 77.4 72.4 60 47.3 8.5 7.1 7.1 7.1
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Cable Tr Rotary (I Rotary	ool Conventional) Raverse) ussion pecify Com Com Converter, F STE SLOT Converter, F SLOT Converter, F Converter, F SLOT Converter, SLOT Converter, SLOT C	Diamonc Diamonc Distruction R Digging Struction R OR Material Fibroglass fastic Steel) EL Struction R rela anized, Steel) Water Det Gind of Water Other, spe ind of Water Oth	ecord - Scr slot No. a. [88] cord - Scr slot No. cord - Scr	mestic restock gation futrial her, specify From - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2	Comm Munici Test H Coolin To Q Q Q Q Q C From Q Q O To To Dee From Q O To Dee From Q O To	ercial Not used pal Dewatering ole Monitoring Status of Well Monitoring Status of Well Recharge Well Test Hole Recharge Well Dewatering Well Observation and/or Monitoring Hole Alteration (Construction) Abandoned, Poor Water Quality Abandoned, Poor Water Quality Abandoned, Poor Water Quality Diameter ph (m(ft)) Diameter ph (ft) Diameter ph (ft	Pumping rate (Vmin / Duration of pumping In hrs + Final water level end of Recommended pump (Mini GPM) Well production (Umin Disinfegted? Ves No Please provide a ma BDUNT	GPM) min of pumping (n() p depth (n()) p rate GPM) Map of V ap below follow DARY R DARY R	3 4 5 1 10 10 15 20 25 30 40 40 50 60 Vell Local ORD	14 15,7 20 41,1 55,5 82,3 84,8 84,8 86 84,8	3 4 5 10 15 20 25 30 40 50 60	79.7 72.7 72.6 77.7 72.6 7 7.1 7 7.1 7 7 7 7 7 7 7 7 7 7 7 7 7 7
Cable Tr Cable Tr Rotary (I Rotary (I Ro	correctional) Reverse) ussion Corr Open Held (Galvanizec Concrete, F SLOT Concrete, F SLOT Mar (Pastic, Galv Mar (Pastic, Galv d at Depth Mar (Concrete, F) Concrete, F SLOT Concrete, F State State (Pastic, Galv d at Depth Mar Mar <td>Diamonc Diamonc Distruction R Digging Struction R OR Material Fibroglass fastic Steel) EL Struction R rela anized, Steel) Water Det Gind of Water Other, spe ind of Water Oth</td> <td>ecord - Cas Wall Thickness (cm/6) a (88 ecord - Scr Slot No. calls Fresh (cify cif</td> <td>mestic restock gation futrial her, specify From - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2</td> <td>Coolin Munici Test H Coolin Coolin (m(ft)) To Q</td> <td>ercial Not used pal Dewatering ole Monitoring g & Air Conditioning Status of Well Status of Well Monitoring Press Replacement Well Dewatering Well Dewatering Well Dewatering Well Observation and/or Monitoring Hole Abandoned, Poor Water Guality Abandoned, Other, specify Other, specify Other, specify Hole Diameter Diameter pth (m(ft)) Diameter pth (m(ft)) Diameter pth (mCorractor's Licence Note) Abandoned, Strengen Note)</td> <td>Pumping rate (Vmin / Duration of pumping In firs + Final water level end of Recommended pump Recommended pump (Vmin GPM) Well production (Vmin Disinfected? Vres No Please provide a ma</td> <td>GPM) min of pumping (n() p depth (n()) p rate GPM) Map of V ap below follow DARY R DARY R</td> <td>3 4 5 1 10 10 15 20 25 30 40 40 50 60 Vell Local ORD</td> <td>14 15,7 20 41,1 55,5 82,3 84,8 84,8 86 84,8</td> <td>3 4 5 10 15 20 25 30 40 50 60</td> <td>79.7 77.4 72.4 60 435.4 8.5 7.1 7.1</td>	Diamonc Diamonc Distruction R Digging Struction R OR Material Fibroglass fastic Steel) EL Struction R rela anized, Steel) Water Det Gind of Water Other, spe ind of Water Oth	ecord - Cas Wall Thickness (cm/6) a (88 ecord - Scr Slot No. calls Fresh (cify cif	mestic restock gation futrial her, specify From - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2	Coolin Munici Test H Coolin Coolin (m(ft)) To Q	ercial Not used pal Dewatering ole Monitoring g & Air Conditioning Status of Well Status of Well Monitoring Press Replacement Well Dewatering Well Dewatering Well Dewatering Well Observation and/or Monitoring Hole Abandoned, Poor Water Guality Abandoned, Other, specify Other, specify Other, specify Hole Diameter Diameter pth (m(ft)) Diameter pth (m(ft)) Diameter pth (mCorractor's Licence Note) Abandoned, Strengen Note)	Pumping rate (Vmin / Duration of pumping In firs + Final water level end of Recommended pump Recommended pump (Vmin GPM) Well production (Vmin Disinfected? Vres No Please provide a ma	GPM) min of pumping (n() p depth (n()) p rate GPM) Map of V ap below follow DARY R DARY R	3 4 5 1 10 10 15 20 25 30 40 40 50 60 Vell Local ORD	14 15,7 20 41,1 55,5 82,3 84,8 84,8 86 84,8	3 4 5 10 15 20 25 30 40 50 60	79.7 77.4 72.4 60 435.4 8.5 7.1 7.1
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3354 No UTM Z 29 R **Ontario Water Resources Commission Act** Elev. SIR RECORD L Basin Township, Village, Town or City Count 12 Con Date completed month vear # 1 dress **Casing and Screen Record Pumping Test** 11 10 ŧ, 6 Static level Inside diameter of casing G.P.M. Test-pumping rate Total length of casing Pumping level Type of screen w. Duration of test pumping. Length of screen Alim Water clear or cloudy at end of test Depth to top of screen up to Z .G.P.M. Recommended pumping rate Diameter of finished hole 85 with pump setting of. feet below ground surface Water Record Well Log Kind of water Depth(s) at To ft. From which water(s) (fresh, salty, Overburden and Bedrock Record ft. found sulphur) \mathcal{O} 50 3 9 80 13 Location of Well For what purpose(s) is the water to be used?... In diagram below show distances of well from road and lot line. Indicate north by arrow. Is well on upland, in valley, or on hillside? Drilling or Boring Firm 130501 X. X. # 6 N Address Licence Number 205 Name of Driller or Address Date.... (Signature of Licensed Drilling or Boring Contrac Form 7 15M-60-4138 12.3 OWRC COPY



Diameter of finished hole 53	R	ecommended	pumping rate	28' feet belo	G.P.M.
Well Log			··	Water	r Record
Overburden and Bedrock Record		From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
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Is well on upland, in valley, or on hillside?	· · ·			w distances of we ndicate north by	///

VIANA AN STALL UNDI 7**73** Drilling or Boring Firm RR6 11. Address.. SLIM Licence Number... Name of Driller or Borer. Address Date Licensed Drilling or Foring Contractor) (Sign Form 7 15M-60-4138 OWRC COPY

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100022		s	0 n +		DATE COMPLETED	48-53 77
		$\frac{\#1}{2}$ Roslin,		BASIN CODE		YR, 22
	LC	OG OF OVERBURDEN AND BED	ROCK MATERIALS	30 31		47
GENERAL COLOUR		OTHER MATERIALS		GENERAL DESCRIPTION	DEPT	H - FEET
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32						
WATER FOUND	KIND OF WATER	51 CASING & OPEN HOLE		(SLOT NO)		LENGTH 39-40
AT - FEET	FRESH ³ [] SULPHUR ¹⁴ SALTY ⁴ [] MINERAL	DIAM MATERIAL THICKNESS	FROM TO U	MATERIAL AND TYPE	INCHES DEPTH TO TOP OF SCREEN	FEET 41-44 30
15-18 1		26 2 " CONCRETE . 188	0 0015		& SEALING RECO	
20.23 1	FRESH ³ [] SULPHUR ²⁴	4 □ OPEN HOLE 17-18 1 □ STEEL 19 1 1 □ GALVANIZED		DEPTH SET AT - FEET	ERIAL AND TYPE CEN	ENT GROUT, ACKER, ETC.)
25-28 1	FRESH ³ SULPHUR	3 □ CONCRETE 4 12/OPEN HOLE 24-25 1 □ STEEL 26	1.5 0090	10-13 14-17		
30-33 1] SALTY 4 [] MINERAL] FRESH 3 [] SULPHUR 34 80	² GALVANIZED ³ CONCRETE		18-21 22-25 26-29 30-33 80		
PUMPING TEST NE		4 OPEN HOLE	<u> </u>			
T PUMA STATIC	WATER LEVEL 25		5	BELOW SHOW DISTANCES (1	
	PUMPING 22-24 15 MINUTES	30 MINUTES 45 MINUTES 60 MINUTES		INDICATE NORTH BY ARRC	W.	
	1090 FEET 060 FEET 38-41 PUMP INTAKE SE				/	
	GPM.	FEET 1 CLEAR 2 CLOUDY	Lot L	+	El Commercia	
SHALLOW	PUMP	43-45 RECOMMENDED 46-49 PUMPING RATE 0003 GPM			7.	
50-53	54			300'	1.20	
FINAL STATUS OF WELL	1 WATER SUPPLY 2 D OBSERVATION WELL 3 D TEST HOLE	5 🗌 ABANDONED, INSUFFICIENT SUPPLY 6 🗋 ABANDONED, POOR QUALITY 7 🗍 UNFINISHED				Lot
OF WELL	5-56 1 DCMESTIC	5 COMMERCIAL				26
WATER	2 STOCK 3 IRRIGATION	6 🗌 MUNICIPAL 7 🔲 PUBLIC SUPPLY				
USE (4 D INDUSTRIAL D OTHER	COOLING OR AIR CONDITIONING			stes	-
METHOD	2 CABLE TOOL 2 ROTARY (CONVENTION					
OF DRULING	 3 D ROTARY (REVERSE) 4 D ROTARY (AIR) 5 D AIR PERCUSSION 	8 🔲 JETTING 9 🗍 DRIVING				
NAME OF WELL	CONTRACTOR		DRILLERS REMARKS	58 CONTRACTOR 59-62 DAT 3514	15048	0 ⁶³⁻⁶⁸ 80
151	non Drilling	Ltd. 3516	DATE OF INSPECTION	INSPECTOR	ih	
NAME OF DRILLE	ngton, Ont. ER OR BORER	LICENCE NUMBER			R	
Signature of c	CONTRACTOR	SUBMISSION DATE	OFFICE		CSS.S8	
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COUNTY OR DISTRICT	1. PRINT ONLY IN 2. CHECK 🔀 CORR	SPACES PROVIDED				BLOCK TRACT SURVE		LOT 25-21
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	L	OG OF OVERBURDEN AND E	BEDROC	K MATERIAL	S (SEE	INSTRUCTIONS		DEPTH FEET
GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS				RAL DESCRIPTION		FROM TO
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GREY					<u> [] /</u>	UNE		
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32				43		54		
	TER RECORD	51 CASING & OPEN		ECORD		(SEQFOPENING DT NO 1	31-33 D-AMETER	34-38 LENGTH 39.
WATER FOUND AT - FEET	KIND OF WATER	DIAM MATERIAL THICKNE INCHES INCHES		M TO 13-16		ERIAL AND TYPE	DEP OF	TH TO TOP 41-44 SCREEN FEET
0142 20] SALTY ⁴ [] MINERAL] FRESH ³ [] SULPHUR ¹³	06 10-13 T EXSTEEL 12 2 1) GALVANIZED 18 1 4 4 1 1 CONCRETE	× 0	0035	61	PLUGGIN	IG & SEALIN	
2] SALTY $\stackrel{\circ}{\leftarrow}$ MINERAL] FRESH 3] SULPHUR 24	4 L] OPEN HOLE 4		20-23	ILLE.	SET AT FEET	MATERIAL AND TYP	CEMENT GROUT
2] SALTY ⁴ [] MINERAL [] FRESH ³ [] SULPHUR ²⁹	2 [] GALVANIZED 3 [] CONCRETE 4 [] OPEN HOLE	3	50150		10-13 14-17		
2 [[] SALTY 4 [] MINERAL	24-25 1 [] STEEL 26 2 [] GALVANIZED		27-30		18-21 22-25 26-29 30-33 80	1	
1 1	[] FRESH 3 [] SULPHUR ³⁴ [] SALTY 4 [] MINERAL	3 CONCRETE 4 COPEN HOLE						
71 JUMPING TEST MI	ETHOD 10 PUMPING RAT		0017-18 MUNS			LOCATION		
STATIC LEVEL	WATER LEVEL 25	LEVELS DURING 2 C RECOVER		IN DIA LOT LI		LOW SHOW DISTANC NDICATE NORTH BY	CES OF WELL FRO ARROW.	M ROAD AND
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	ET FEET F 38-41 PUMP INTAKS		FEET. 42)	3D	
U IF FLOWING GIVE RATE	UMP TYPE RECOMMEND	HO FEET 1 SCLEAR 2 ED 43-45 RECOMMENDED PUMPING	45-49		oftin	. /		
D. SHALLO 50-53	W DEEP SETTING	140 FEET RATE0005	GPM		k/	2Min		Roslig
FINAL	54 1 CK WATER SUPPLY	S] ABANDONED. INSUFFICIENT					1	
STATUS OF WELL	2 COBSERVATION WI 3 C TEST HOLE 4 C RECHARGE WELL	7 🗍 UNFINISHED						
	55-56 1 COMESTIC 2. STOCK	5 COMMERCIAL COMMERCIAL						*
WATER USE	DI 3 I IRRIGATION 4 INDUSTRIAL	7 D PUBLIC SUPPLY 8 D COOLING OR AIR CONDITIONING				(III)		
	C OTHER	9 [] NOT USED		4	4			
METHOD	CABLE TOOL CABLE TOOL CONVE			S S				
OF DRILLING		9 DRIVING		DRILLERS REMARK	KS_	//		
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A FRAME Image: Constraint of the second of	COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON BLOCK TRACT, SURVEY ET	15 22 23 C LOT 25-3:
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22 All WATER RECORD Image: All of the second s				
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1 1 Skill + 1 Markak 1	AT - FEET RIND OF WATER	UR 14 DIAM MATERIAL THICKNESS F	ROM TO O MATERIAL AND TYPE	DEPTH TO TOP
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Image: State FEEL FEEL <td>LEVEL END OF</td> <td>VATER LEVELS DURING 1 D PUMPING 2 D RECOVERY</td> <td>IN DIAGRAM BELOW SHOW DISTANCES OF LOT LINE INDICATE NORTH BY ARROW.</td> <td>WELL FROM ROAD AND</td>	LEVEL END OF	VATER LEVELS DURING 1 D PUMPING 2 D RECOVERY	IN DIAGRAM BELOW SHOW DISTANCES OF LOT LINE INDICATE NORTH BY ARROW.	WELL FROM ROAD AND
If Advance 38-4 POWP INTACCEST AT WATER AT END OF TEST 4 If Advance 60 reconnended Image: Advance Advance 4 If Advance end BCOMMENDED 43-45 RECONNENDED 44-44 If Advance If Advance If Advance If Advance 44-44 If Advance If Advance If Advance If Advance 44-44 If Advance If Advance If Advance If Advance If Advance If Advance If Advance If Advance If Advance If Advance If Advance If Advance If Advance If Advance If Advance If Advance If Advance If Advance If Advance If Advance If Advance If Advance If Advance If Advance If If If Advance If If If Advance If If If Advance If I	8 FFFT 58 15	26-26 29-31 32-34 35-37	/	
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STATUS : G OBSERVATION WELL : G ABANDONED POOR QUALITY STATUS : TEST HOLE ; UNFINISHED OF WELL : TEST HOLE ; UNFINISHED 33:54 : RECHARGE WELL USE : INDUSTRIAL 0 THER : COOLING OR AIR CONDITIONING 0 THER : OTHER 0 THER : OTHER 0 THER : DINUSTRIAL 0 THER : DINUMCIPAL 1 RECHARY (CONVENTIONAL) : DONARD 2 ROTARY (REVENSE) : DISTING DRILLERS REMARKS : DRIVING DRILLERS REMARKS : DRIVING NAME OF WELL CONTRACTOR : DRIVING BEALL 'S : DRIVING NAME OF WELL CONTRACTOR : DRIVING NAME OF WELL CONTRACTOR : DRIVING NAME OF DENEL CONTRACTOR : DRIVING NAME OF DENEL : DROAL NAME OF DENEL : DROAL NAME OF DENEL : DROAL : S	SHALLOW 🖉 DEEP SETTI			
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METHOD I & CAELE TOOL I BORING 2 ROTARY (CONVENTIONAL) 7 DIAMOND 0F 3 ROTARY (CONVENTIONAL) 7 DIAMOND 3 ROTARY (CONVENTIONAL) 8 JETTING 8 JETTING DRILLING I ROTARY (REVERSE) 8 JETTING 9 DRIVING NAME OF WELL CONTRACTOR AIR PERCUSSION 10 DRIVING DATA 54 CONTAALTOS 35-62 DATE 205 850 ADDRESS REA JETAL 'S DESLETING 1352 DATE 50 05 850 1352 NAME OF DRILLER OR BORER Dong / JSON LICENCE NUMBER 1352 INSPECTOR INSPECTOR NAME OF DRILLER OF BORER Dong / JSON LICENCE NUMBER 1352 U U INSPECTOR INSPECTOR SIGNATURE OF CONTRACTOR SUBMISSION DATE SUBMISSION DATE SUBMISSION DATE U U U U U U E CSS.ES	WATER 2 DOWESTIC 2 DOTOCK 3 DIREGATION USE 4 DINDUSTRIA 0 OTHE	MUNICIPAL J DUBLIC SUPPLY OCOLING OR AIR CONDITIONING OCOLING OR AIR CONDITIONING OCOLING OR AIR CONDITIONING OCOLING OR AIR CONDITIONING		ØÐ
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RRI FORBORO NAME OF DRILLER OR BORER WDE SIGNATURE OF CONTRACTOR SIGNATURE OF CONTRACTOR 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		DELLIZIO 1352	DATA 58 CONTRACTOR 59-62 DATE SOURCE DATE OF INSPECTION INSPECTOR	-30585 ···
WDE CSS.ES	NAME OF DRILLER OR BORER	LICENCE NUMBER	В.	
	SIGNATURE OF CONTRACTOR		WDF	وبالارار المحاولة والمحور
	William Non			CSS.ES

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COUNTY OR DISTRIC			TOWNSHIP.	BOROUGH. CITY		GE		CON	BLOCK. TR	ACT. SURVEY.	ts ETC		22 23 24 LOT 25-27
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	10	12	17	HING 1 1 1		RC.	ELEVATION						
	-	L	OG OF OVE	RBURDEN	AND BED	ROCK	MATER	IALS (SEE)	NSTRUCTIO	DNSI	·		
Berwa		MATERIAL		OTHER MAT	ERIALS			GENER	AL DESCRI	PTION		FROM	TO
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31 <u>1</u> 32 <u>1</u>	<u>, , ,</u>												
	TER RECO		51 C/		PEN HOL	E RECO	DRD		54	3 31-1	3 DIAMETE	R 34-38	75 40 LENGTH 39-40
WATER FOUND AT - FEET 10-13	KIND OF W		INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH FROM	· FEET TO		RIAL AND TY	PE		INCHES PEPTH TO TOP OF SCREEN	FEET
12 '	SALTY 4	MINERAL	61, 20	GALVANIZED CONCRETE	188	~	13-1						FEET
58 20	SALTY 4	MINERAL	17-18 1 ⊡	OPEN HOLE	<i>v</i>	0	20-2		ET AT - FEE		RIAL AND T	VDE CEME	NT GROUT
2 [MINERAL	1	GALVANIZED CONCRETE OPEN HOLE		11	60	FROM	-13 TO	14-17		LEAD PA	CKER. ETC)
2 [_ SALTY 4 _	MINERAL		STEEL 26 GALVANIZED CONCRETE			27.30			2-25			
	SALTY 4		• 0	OPEN HOLE				26-1		0-33 80			
71 1 □ PUMP	Z K BAILER	25	3 GPN	IS-16 HOUR	17-1 5 Min	-	400			ON OF			
STATIC LEVEL	WATER LEVEL END OF PUMPING 22-2	WATER L	EVELS DURING		UMPING ECOVERY			IAGRAM BELO LINE INDI		TH BY ARRON		OM ROAD A	ND
			T FEET	32-3 FEE	4 35-: T FE	IT I		yt-	~			37	
IF FLOWING. GIVE RATE RECOMMENDED PU	38-4 		FEET	T CLEAR		2		5/		1			
SHALLOW	WP TYPE	RECOMMENDED PUMP SETTING	<i>c</i> ~	RECOMMENDED PUMPING RATE	3 GPI			}				*	
50-53	54								J				
FINAL STATUS	2 🗆 08 3 🗌 TE			DONED, INSUFF IDONED POOR Q INISHED			\langle	A	41' ft				
OF WELL	5-56 1 DX DO		5 🔲 COMMERC			-	X	1					
WATER USE	2 🗌 ST 3 🗍 iRi 4 🗍 iNi	RIGATION	6 D MUNICIPA 7 D PUBLIC 5 8 D COOLING	UPPLY	ONING			\mathbf{D}					3
	57	OTHER		9 🗆 NOTU				X					
METHOD OF		BLE TOOL TARY (CONVENT TARY (REVERSE	IONAL) 7	 BORING DIAMOND JETTING 							E (D	
DRILLING	4 🗖 RO	TARY (AIR) PERCUSSION				DRIL	LERS REMAR	iks		<u>*</u> .		11	
BALL	1 1)RILLI.		NCE NUMBER] <u>[</u>]	DATA SOURCE	58 CO	NTRACTOR	。 ""0	RELIVED	18	5 10
ADDRESS	<u>г</u>		<u> </u>	<i>zu</i> /	<u></u>	SE ONLY	DATE OF INSP	ECTION	INSP	ECTOR		- 0	•
NAME OF DRILL	ER OR BORER	BORD	Ldson		NCE NUMBER		REMARKS					c c e (
Signature of		1		SSION DATE	9 , 85	OFFICE					CS	S.S8 \	~3
MINISTR		ENVIRO	MENT CO	· · · · · · · · · · · · · · · · · · ·		╴╴					FO	RM NO. 0506-	4-77 FORM 7

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Ontario Env	Vironment	N SPACES PROVIDED		2911			
COUNTY OR DISTRICT	2. СНЕСК 🗵 СОН	RRECT BOX WHERE APPLICABL	E 11 CITY, TOWN, VILLAGE		CON. BLOCK, TRACT	SURVEY, ETC.	
HAC-	TTUES	- TILL RA	ow			P DATE COMPLETED	26
		7	9 South	Foster	Au. Belle.	ille DAY 22 MC	5 yr 86
[10 M	17 28 - too au	4	26 - 1 26		alle de la sec	
GENERAL COLOUR	MOST	1	·····	OCK MATERI	ALS (SEE INSTRUCTIONS		DEPTH - FEET
BROWN	COMMON MATERIAL		MATERIALS		GENERAL DESCRIPTI	FR	ом то
GREY	Top Sozz CLAY	* Boulder:	<u>ر</u>) / 1 28
GREY			•	L.	IMESTONE	28	
					10-11		
31				<u> </u>			___
WATER FOUND	KIND OF WATER	INSIDE		RECORD	SIZE(S) OF OPENING (SLOT NO.)	1	4-38 LENGTH 39-40
	FRESH ³ SULPHUR ¹⁴ SALTY ⁴ MINERAL	10-11 1 DY STEEL	THICKNESS INCHES FI	ROM TO 13-16		DEPTH TO OF SCREE	N
15-18 1	FRESH ³ SULPHUR ¹⁹ SALTY ⁴ MINERAL	61/1 2 GALVANIZE 3 CONCRETE 4 OPEN HOL		0 28	61 PLUG	GING & SEALING R	ECORD
20-23 ^t []	FRESH 3 SULPHUR 24 SALTY 4 NINERAL	17-18 [] STEEL 2 GALVANIZE	19 .D	20-23	DEPTH SET AT - FEET FROM TO		(CEMENT GROUT EAD PACKER, ETC.)
25-28 1	FRESH 3 SULPHUR 29 SALTY 4 MINERAL	3 CONCRETE 4 COPEN HOLI 24-25 1 STEEL		28 75 27-30	10-13 14-17 18-21 22-25		
30-33 1 🗌	FRESH 3 SULPHUR 34 30 SALTY 4 MINERAL	2 🗌 GALVANIZE 3 🗍 CONCRETE			26-29 30-33	80	
71 PUMPING TEST METH	HOD IO PUNPING RATE					N OF WELL	
T D PUMP	WATER LEVEL 25	GPM	15-16 17-18 HOURS MINS		AGRAM BELOW SHOW DIST	ANCES OF WELL FROM RC	DAD AND
LEVEL 19-21	PUMPING 22-24 15 MINUTES	2 30 MINUTES 45 MINUT	RECOVERY (ES) 60 MINUTES 32-34 35-37	LOT L	INE. INDICATE NORTH	BY ARROW.	
	70 FEET FEE 38-61 PUMP INTAKE S	T FEET	FEET FEET		$\left(\right)$	(3)	$\overline{\mathcal{I}}$
S FEET IF FLOWING. GIVE RATE RECOMMENDED PUN	GPM 7.	3 FEET I A CLE 43-45 RECOMMENDI			141	ile.	
C SHALLOW	DEEP SETTING	73 FEET RATE	5 _{gpm}				<u>Roslin</u>
FINAL	1 X WATER SUPPLY	S ABANDONED, IN	SUFFICIENT SUPPLY	11			4
STATUS OF WELL	2 OBSERVATION WEL 3 D TEST HOLE 4 D RECHARGE WELL	L 👂 🗋 ABANDONED, PO 7 🗋 UNFINISHED	OR QUALITY				
55-		5 COMMERCIAL 5 MUNICIPAL					
WATER USE	3 📑 IRRIGATION 4 📋 INDUSTRIAL	7 D PUBLIC SUPPLY 8 D COOLING OR AIR CO				(317)	
	57 ' K CABLE TOOL	9 🗌 N 	OT USED			Ť	
METHOD OF	2 ROTARY (CONVENT 3 ROTARY (REVERSE)	IONAL) 7 🗌 DIAMON 8 🛄 JETTING	D				
DRILLING	4 C ROTARY (AIR) 5 AIR PERCUSSION	9 🗍 DRIVING		DRILLERS REMARK	S:		
BILL'S	WELL D	RILLTAIG	LICENCE NUMBER	DATA SOURCE DATE OF INSPEC	58 CONTRACTOR 5	·** 27006	86
VRR /	FORBORD C	JNT		L L L L L L L L L L L L L L L L L L L			
WILLER	A OR BORER Am DONARY		LICENCE NUMBER		<u>}</u>		
SIGNATURE OF CO	INTRACTOR AND	SUBMISSION DATE	5	OFFICE			CSS.ES
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Ontario		SPACES PROVIDED		9118			
COUNTY OR DISTRICT	2. CHECK 🖄 CORRI	TOWNSHIP, BOROUGH, CITY, TOWN, VILLA	IGE		CON., BLOCK, TRACT. SURVEY.	15 ETC	22 73 74 LOT 25-27
l Waatinga		Thurlow				DATE COMPLETED	27 3 87
		R.R.#2 Ro		ELEVATION	RC BASIN CODE	а с <u>12</u> момо	YR
1 2	M 10 12	17 18 24	25	26	30 31		47
	LC	OG OF OVERBURDEN AND BEI	JROCK			Di	EPTH - FEET
GENERAL COLOUR	COMMON MATERIAL	OTHER MATERIALS			GENERAL DESCRIPTION	FROM	
brown	topsoil				loose	0	
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grey brown	limestone				hard	6	
DICONT							
				· · · ·			
		·.					
31							
					54 SIZE(S) OF OPENING 31	-33 DIAMETER 34-	-38 LENGTH 39-40
41 WAT	KIND OF WATER	51 CASING & OPEN HO	DEPI	TH - FEET	C (SLOT NO)	INCH DEPTH TO	
10-13 1	FRESH 3 [] SULPHUR 14	10-11 1 STEEL 12	FROM	TO 13-16	S MATERIAL AND TIPE	OF SCREEN	
1 4 15-18 1	FRESH 3 [] SULPHUR ¹⁹ SALTY 4 [] MINERAL	2 □ GALVANIZED 6¼ □ CONCRETE 4 □ OPEN HOLE •188	0	15	61 PLUGGING	& SEALING RE	ECORD
20-23 1	FRESH 3 [] SULPHUR ²⁴ SALTY 4 [] MINERAL	17-18] STEEL 19 2 GALVANIZED	45	20-23	FROM TO	TERIAL AND TYPE	(CEMENT GROUT
25-28 1	FRESH 3 [] SULPHUR 29	5% 3 □ CONCRETE 4 □ OPEN HOLE 24-25 1 □ STEEL 26	15	124	10-13 I4-17 18-21 22-25		
30-33 · 🗆	SALTY 4 [] MINERAL FRESH 3 [] SULPHUR 34 10	2 🔲 GALVANIZED 3 🔲 CONCRETE			26-29 30-33 80		
2	SALTY 4 [] MINERAL	A DOPEN HOLE			LOCATION OF		
71 : D PUMP	2 BAILER WATER LEVEL 25	3 GPM	17-18		GRAM BELOW SHOW DISTANCES		
STATIC LEVEL 19-21	END OF PUNPING 22-24 15 MINUTES	EVELS DURING 1 PUMPING 2 RECOVERY 30 MINUTES 45 MINUTES 60 MINUT	ES	LOT LI		ow.	
	15 FEET 15 FEE	ET 15 FEET 15 FEET 15	5-37 FEET		1~	Hwy-2	*1
U FEET IF FLOWING, GIVE RATE C RECOMMENDED PUN	SB _A AT PUMP INTAKE : GPM.	SET AT WATER AT END OF TEST	42 JDY		/		
	NP TYPE RECOMMENDED PUMP		5-43			بر #	CTY. RD.7
0.53	*				4	X.Y	ROSLIN
FINAL STATUS	34 7 D, WATER SUPPLY 2 D OBSERVATION WEL		'LY	40	1 mi.		())) () () () () () () () ()
OF WELL	3 🗍 TEST HOLE 4 🗍 RECHARGE WELL	, 🗌 UNFINISHED		•	0		
WATER "	-56 I DOMESTIC 2 2 5 STOCK 3 DIRRIGATION	s COMMERCIAL s MUNICIPAL 7 PUBLIC SUPPLY			./		
USE		COOLING OR AIR CONDITIONING			Â	8 	
METHOD	CABLE TOOL	5 BORING				Hwy.	37
OF	2 CROTARY (CONVENT 3 CROTARY (REVERSE 4 ROTARY (AIR))5243
				DRILLERS REMARK		ATE RECEIVED	43 68 AC
CBALK	WELL DRILLING	LTD. 1507		DATE OF INSPEC		FEB 0 3	
CBALK ADDRESS R.R.#6	Napanee				CTION INSPECTOR		
	ER OR BORER	LICENCE NUMBER	11.		*		
	WELL DRILLING	SUBMISSION DATE	87				Ccc
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COUNTY OR	DISTRICT	2. CHECK 🗵 COR	RECT BOX WHERE APPLICA	BLE 11 H. CITY, TOWN, VILLAG		- L,	0 14		22 73 74
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Ministry of the

Environment

Print only in spaces provided. Mark correct box with a checkmark, where applicable.

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The Ontario Water Resources Act WATER WELL RECORD

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County or District Hasting		Township/Borough/City/ Huntin	-	Con bloc	k tract survey, etc. Lot 25-2 I 17
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	ER RECORD 51			54 Sizes of opening	31-33 Diameter 34-38 Length 39-4
Water found at - feet	Kind of water diam inches	Wall Material thickness inches	Depth - feet From To	X (Slot No.) Material and type	inches feel
40 ¹⁰⁻¹³ 1 [2 [Fresh ³ Sulphur ¹⁴ Sant est undrals	1 Steel 12 2 Galvanized	13-16	Material and type	Depth at top of screen
15-18 1 [☐ Fresh 3 ☐ Sulphur 19 ☐ Salty 4 ☐ Minerals	3 □ Concrete 4 □ Open hole 5 □ Plastic • 188	0 22		G & SEALING RECORD
20-23 1 [□ Fresh 3 □ Sulphur 24	2 🖸 Galvanized	20-23	Depth set at - feet	e 🗌 Abandonment
25.20	Saity 6 Gas 6	3 Concrete 4 Open hole 5 Plastic	20'6" 48	From To Ma	terial and type (Cement grout, bentonite, etc.)
2 [3 Salty 6 Gas 24-25	1 🖸 Steel 26 2 🗋 Galvanized	27-30	20 0 0 18-21 22-25	Cement
1,1	☐ Fresh 4 ☐ Minerals ☐ Salty 6 ☐ Gas	3 Concrete 4 Open hole 5 Plastic		26-29 30-33 80	
Pumping test n				LOCATION OF	F WELL
Static level	Alatar laval 25	M <u>1</u> <u>15-16</u> <u>0</u> <u>17-18</u> 1 D Pumping 2 Recovery	In diagra		of well from road and lot line.
	22-24 15 minutes 30 minutes 26-28 30 minutes 29	45 minutes 32-34 60 minutes 35-37	1	-	
19-21 20 feet If flowing give r	20.44	eet 21 feet 21 feet feet 42	WEST PROPERTY LINE	33'	
If flowing give r	GPM from from from from from from from from	water at end of test Deet Clear D Cloudy 45 Recommended 46-49	PROPERT		3
Recommended p	pump setting 45	pump rate 6 GPM	LINE	T	#294
50-53				2	20
FINAL STATU ¹ Water sup ² Observati	pply 5 🗌 Abandoned, insufficien		*		1
 ³ Test hole ⁴ Recharge 	7 Abandoned (Other)		i i	¥	1
	55-56 5 🗌 Commercial	9 🗔 Not use		BOUNDAR	Y RD.
2 Stock 3 Irrigation	6 🔲 Municipal 7 🔲 Public supply	10 🔲 Other			,
4 🗌 Industrial	-	ng 			1 ^N
1 Cable too		⁹ Driving			/
² ☐ Rotary (ce ³ ☐ Rotary (re ⁴ ☐ Rotary (a	everse) 7 🗋 Diamond	¹⁰ Digging ¹¹ Other			242729
		Woll Contractoria Lineare Martin	. Data	58 Contractor	59-62 Date received 63-68
Name of Well Contr CHALK W	TELL DRILLING LTD	• Well Contractor's Licence No. 1507	Data source	58 Contractor 1507	JAN 1 6 2003
Address R.R.#	6, Napanee, Ont	ario	Date of inspection	Inspector	
Name of Well Tech George	R. Chalk	Well Technician's Licence No. T-0024	Remarks	<u> </u>	
Signature of Techn	ician/Contractor	Submission date			CSS.ES3
L	TELL DRILLING LTD	day no yi	Σ		0506 (07/00) Front Form
2 - MINIS	TRY OF THE ENVIRONM	IENT COPY			

	Ministry of the Environment and Climate Change	Well Tag No. (Place Sticker a	and/or Print Below)			ell Record
Measurements recorded	_	Tag#: A2471	18	Regulation	903 Ontario Wa Page	of
Well Owner's Inform	nation					
First Name	Last Name / Organizatio		E-mail Address			Well Constructed
Mailing Address (Street N		Mes Lta. Municipality	Province	Postal Code	Talanhana	by Well Owner No. (inc. area code)
	ned Street	Beleville	ON	K8P3		7624600
Well Location						
Address of Well Location		Township		Part lot?	Concessio	n
County/District/Municipali		City/Town/Village			Province	Postal Code
Hastings UTM Coordinated Zone ,	Easting , Northing	Municipal Plan, and Subl	of Number		Ontario Other	KOKRYD
NAD 8 3			21R2664		Outer	
Overburden and Bedro	ock Materials/Abandonment Se	ealing Record (see instructions on th		1		
General Colour	Most Common Material	Other Materials	Gene	eral Description		Depth (<i>m/ft</i>) From To
		**************************************			-	
Pro	perty grade y	vas changed.		16"of	wello	rsing
	accomodate to	or this char	ige and	_affix (od	
m.	.U.E. Well tae	•	Υ			
	_)				
	A41414/0000944141410014-eenter-tel-1-tel-			********		
Dopth Sat at (m/ft)	Annular Space Type of Sealant Used	Volume Placed	After test of well yield,		Il Yield Testing Draw Down	Recovery
Depth Set at (<i>m/ft</i>) From To	(Material and Type)	(m³/ft³)	Clear and sand		Time Water Lev	el Time Water Level
			Other, specify		(min) (m/ft) Static	(min) (m/ft)
			- If pumping discontinu	ea, give reason:	Level	
					1	1
			- Pump intake set at (n	<i>vi</i> y	2	7
Method of Cons	truction	Well Use	Pumping rate (1/min / 0	GPM)	3	3
	Diamond Public	Commercial Not used	Duration of pumping		4	4
Rotary (Conventional) Rotary (Reverse)	Jetting Domestic Driving Livestock	Municipal Dewatering Test Hole Monitoring	- 11 · · · · · ·	min	-5	5
Boring Air percussion	Digging Irrigation	Cooling & Air Conditioning	Final water level end	of pumping (m/ft)	10	10
Other, specify	Other, specify		If flowing give rate (I/m	nin / GPM	V ₁₅	15
	truction Record - Casing	Status of Well			20	20
Inside Open Hole O Diameter (Galvanized, (cm/in) Concrete, Pla	Fibreglass, Thickness	th (<i>m/ft</i>)	Recommended pump		25	25
(Grizin) Concrete, Pia	astic, Steel) (cm/in) From	Test Hole	Recommended purp	rate	30	30
		Dewatering Well	(l/min / GPM)		40	40
		Observation and/or Monitoring Hole	Well production (I/min	/ GPM)		
		Alteration (Construction)	Disinfected?		50	50
		Abandoned, Insufficient Supply	Yes No		60	60
Cons Outside	struction Record - Screen	Abandoned, Poor	Please provide a ma		Il Location	the back
Diameter (cm/in) (Plastic, Galva		To Abandoned, other,	r lease provide a file		g manuclions on	The back.
(0.001)		specify				
		Other, specify				1
	Water Details	Hole Diameter				
 Interpretation of the state of	ind of Water: Fresh Unteste	d Depth (<i>m/ft</i>) Diameter	aa	<u>, 11m</u>		
	Other, specify	From To (cm/in)	80%	N		
	ind of Water. Fresh Unteste	d				
	ind of Water: Fresh Unteste	- d	6		15m	
(<i>m/ft</i>) 🗍 Gas 🗌	Other, specify	_	exton			
Well Business Name of Well C	I Contractor and Well Technici	an Information Well Contractor's Licence No		-/ ~ ~	V/V	
	Sarada Inc.	7 3 2 9			. X X	Jan. Jahan
Business Address (Street	t Number/Name)	Municipality	Comments:	4 10		Sel a sel stato
Province Post	tal Code Ususiness E-mail Ac	Idress Belleville	1 Well Dept	n 14.31	M. STAT	richevel 4.43
ON KS	8N4ZIS infraw	cilhusters, com		Package Delivere	200200000000000000000000000000000000000	stry Use Only
Bus. Telephone No. (inc. are	ea code) Name of Well Technician	(Last Name, First Name)	│ information package ↓ ↓ delivered	YYMM	D D Audit No.	Z293865
Well Technician's Licence No.	Signature of Technician and/or of	STEWAT	Yes Date '	Work Completed		
1041	Hatthon	2018112		18443		<u>G 3 2018</u>
0506E (2014/11)		Ministry's Copy			© Queen	's Printer for Ontario, 2014

Appendix B Laboratory Certificates of Analysis

CERTIFICATE OF ANALYSIS

C A D U C E ENVIRONMENTAL LABORATORIES Client committed. Quality assured. Canadian owned.

C.O.C.: Foxton

DATE RECEIVED: DATE REPORTED:

Report To:

The Greer Galloway Group 1620 Wallbridge-Loyalist Road, RR #5 Belleville, ON K8N 4Z5

Attention: Kirby Magee-Dittburner

REPORT No: 24-004566 - Rev. 0

Final Report

CADUCEON Environmental Laboratories

285 Dalton Ave Kingston, ON K7K 6Z1

CUSTOMER PROJECT:	Foxton Road
P.O. NUMBER:	PO#2338574

Analyses	Qty	Site Analyzed	Authorized	Date Analyzed	Lab Method	Reference Method
Anions (Liquid)	1	OTTAWA	PCURIEL	2024-Feb-20	A-IC-01	SM 4110B
Colour (Liquid)	1	OTTAWA	AWILSON	2024-Feb-21	A-COL-01	SM 2120C
Cond/pH/Alk Auto (Liquid)	1	OTTAWA	SBOUDREAU	2024-Feb-20	COND-02/PH-02/A	SM 2510B/4500H/
					LK-02	2320B
Coliforms - DC Media (Liquid)	1	KINGSTON	BBURTCH	2024-Feb-16	ECTC-001	MECP E3407
DOC/DIC (Liquid)	1	OTTAWA	VKASYAN	2024-Feb-21	C-OC-01	EPA 415.2
Fecal Coliforms (Liquid)	1	KINGSTON	BBURTCH	2024-Feb-16	FC-001	SM 9222D
ICP/MS (Liquid)	1	OTTAWA	AOZKAYMAK	2024-Feb-21	D-ICPMS-01	EPA 200.8
ICP/OES (Liquid)	1	OTTAWA	APRUDYVUS	2024-Feb-20	D-ICP-01	SM 3120B
Sulphide (Liquid)	1	KINGSTON	EHINCH	2024-Feb-20	H2S-001	SM 4500-S2
Tannins (Liquid)	1	KINGSTON	EHINCH	2024-Feb-21	TAN-001	SM 5550
TP & TKN (Liquid)	1	KINGSTON	KDIBBITS	2024-Feb-23	TPTKN-001	MECP E3516.2
Turbidity (Liquid)	1	OTTAWA	AWILSON	2024-Feb-21	A-TURB-01	SM 2130B

R.L. = Reporting Limit

NC = Not Calculated

Test methods may be modified from specified reference method unless indicated by an $\,^*$

2024-Feb-16

2024-Feb-26

Michelle Dubien Data Specialist

	Clie	ent I.D.	TW
	Sam	ple I.D.	24-004566-1
	Date Co		2024-02-15
Parameter	Units	R.L.	-
Total Coliform (DC Media)	CFU/100mL	1	6
E coli (DC Media)	CFU/100mL	1	0
Background (DC Media)	CFU/100mL	1	65
Fecal Coliform	CFU/100mL	1	0
Alkalinity(CaCO3) to pH4.5	mg/L	5	254
Conductivity @25°C	uS/cm	1	540
pH @25°C	pH units	-	7.78
Colour	TCU	2	4
Turbidity	NTU	0.1	0.8
Fluoride	mg/L	0.1	<0.1
Chloride	mg/L	0.5	13.7
Nitrate (N)	mg/L	0.05	1.21
Nitrite (N)	mg/L	0.05	<0.05
Sulphate	mg/L	1	7
Phosphorus (Total)	mg/L	0.01	0.01
Total Kjeldahl Nitrogen	mg/L	0.1	0.3
Dissolved Organic Carbon	mg/L	0.2	4.0
Tannin & Lignin	mg/L	0.5	<0.5
Sulphide	mg/L	0.01	<0.01
Hardness (as CaCO3)	mg/L	0.02	268
Calcium	mg/L	0.02	100

Michelle Dubien Data Specialist

The analytical results reported herein refer to the samples as received and relate only to the items tested. Reproduction of this analytical report in full or in part is prohibited without prior consent from Caduceon Environmental Laboratories.

	Cli	ent I.D.	TW		
	Sam	ple I.D.	24-004566-1		
	Date Co	llected	2024-02-15		
Parameter	Units	R.L.	-		
Iron	mg/L	0.005	0.042		
Magnesium	mg/L	0.02	4.48		
Manganese	mg/L	0.001	0.003		
Sodium	mg/L	0.2	7.7		
Lead	mg/L	0.00002	<0.00002		

Michelle Dubien Data Specialist

CERTIFICATE OF ANALYSIS

CADUCEZ ENVIRONMENTAL LABORATOR Client committed. Quality assured. Canadian owned.

C.O.C.: Foxton

Report To:

The Greer Galloway Group 1620 Wallbridge-Loyalist Road, RR #5 Belleville, ON K8N 4Z5

Attention: Kirby Magee-Dittburner

DATE RECEIVED: DATE REPORTED: SAMPLE MATRIX:	2024-Mar-26 2024-Mar-28 Ground Water				STOMER PROJECT). NUMBER:	: Foxton Road 2338574	
Analyses		Qty	Site Analyzed	Authorized	Date Analyzed	Lab Method	Reference Method
Coliforms - DC Media (Lie	quid)	1	KINGSTON	BBURTCH	2024-Mar-26	ECTC-001	MECP E3407
Fecal Coliforms (Liquid)		1	KINGSTON	BBURTCH	2024-Mar-26	FC-001	SM 9222D

R.L. = Reporting Limit

NC = Not Calculated

Test methods may be modified from specified reference method unless indicated by an $\,^{*}$

		Parameter	Total Coliform (DC Media)	E coli (DC Media)	Background (DC Media)	Fecal Coliform
		Units	CFU/100mL	CFU/100mL	CFU/100mL	CFU/100mL
		R.L.	1	1	1	1
Client I.D.	Sample I.D.	Date Collected	-	-	-	-
Resample	24-008073-1	2024-Mar-26	1	0	>200	0

Brandon Burtch Microbiology Supervisor

The analytical results reported herein refer to the samples as received and relate only to the items tested. Reproduction of this analytical report in full or in part is prohibited without prior consent from Caduceon Environmental Laboratories.

Final Report

REPORT No: 24-008073 - Rev. 0

CADUCEON Environmental Laboratories 285 Dalton Ave

Kingston, ON K7K 6Z1

CERTIFICATE OF ANALYSIS

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C.O.C.: Foxton

Report To:

The Greer Galloway Group 1620 Wallbridge-Loyalist Road, RR #5 Belleville, ON K8N 4Z5

Attention: Kirby Magee-Dittburner

DATE RECEIVED: DATE REPORTED: SAMPLE MATRIX:	2024-Mar-14 2024-Mar-18 Ground Water				ISTOMER PROJECT D. NUMBER:	: Foxton Road 2338574	
Analyses		Qty	Site Analyzed	Authorized	Date Analyzed	Lab Method	Reference Method
Coliforms - DC Media (L	.iquid)	1	KINGSTON	BBURTCH	2024-Mar-14	ECTC-001	MECP E3407
Fecal Coliforms (Liquid)		1	KINGSTON	BBURTCH	2024-Mar-14	FC-001	SM 9222D

R.L. = Reporting Limit

NC = Not Calculated

Test methods may be modified from specified reference method unless indicated by an $\,^{\star}$

		Parameter	Total Coliform (DC Media)	E coli (DC Media)	Background (DC Media)	Fecal Coliform
		Units	CFU/100mL	CFU/100mL	CFU/100mL	CFU/100mL
		R.L.	1	1	1	1
Client I.D.	Sample I.D.	Date Collected	-	-	-	-
Resample	24-007045-1	2024-Mar-14	0	0	>200	0

Bl Buth

Brandon Burtch Microbiology Supervisor

Final Report

REPORT No: 24-007045 - Rev. 0

CADUCEON Environmental Laboratories 285 Dalton Ave

Kingston, ON K7K 6Z1

ad, RR #5