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

Prepared for:

Justin Bell
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Submitted by:

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GREER GALLOWAY
CONSULTING ENGINEERS

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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.

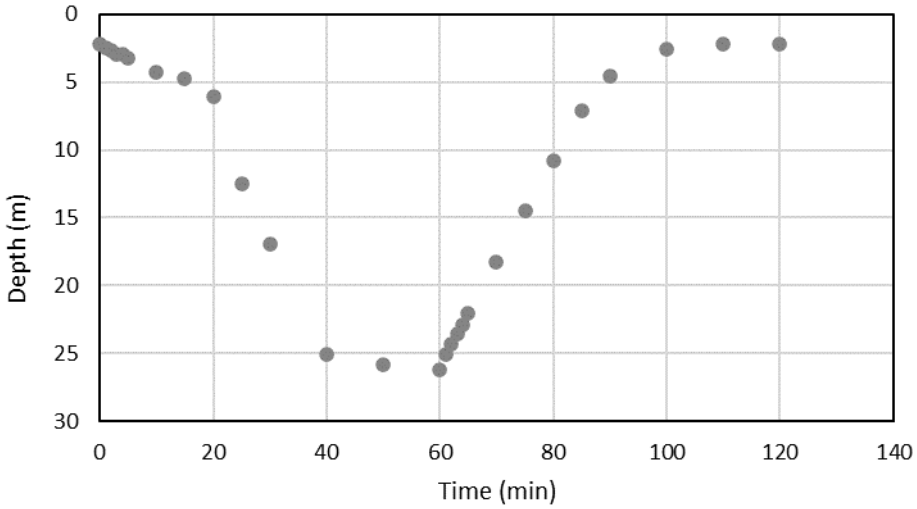

Figure A1 – Graph of driller's yield testing results for Well A321308

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.

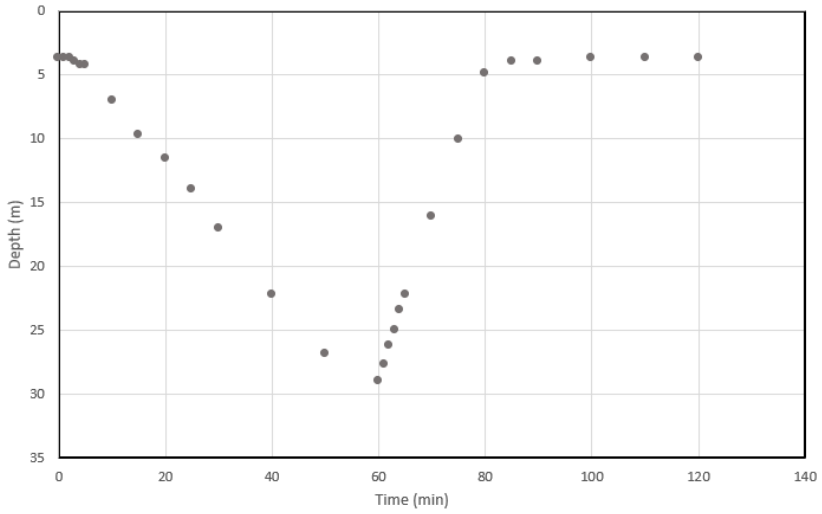

Figure A2 – Graph of driller's yield testing results for Well A320558

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.

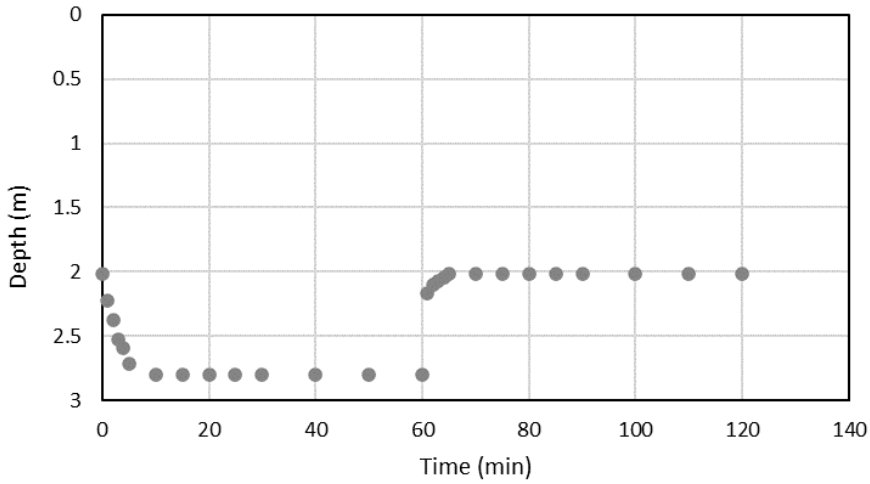

Figure A3 – Graph of drillers yield testing results for Well A321307

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 ^{o}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:

Table 2: Estimated infiltration factors

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**

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.

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

Topography		Runoff Coefficient Based on Soil Type[1]			Percentage of site area[2]
		Sandy Loam	Silt Loam	Tight Clay Loam	
Vegetated lands	Flat (0 to 5%)	0.08	**0.25**	0.35	**50**
	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**

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:

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

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 casing						
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

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.

Table 5: Summary of pumping tests

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

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.

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

	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 Criteria/Operational Guidelines				
Alkalinity(CaCO3) to pH4.5	mg/L	5	266	500[OG]
pH @25°C	pH Units		8.09	6.5 – 8.5[OG]
Colour	TCU	2		5[OG]
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[OG]
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]

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 parameters with Health-related 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/Chemical parameters with Aesthetic Criteria/Operational Guidelines					
Alkalinity(CaCO3) to pH4.5	mg/L	5	254	-	500^{OG}
pH @25°C	pH Units		7.78	-	6.5 – 8.5^{OG}
Colour	TCU	2	4	-	5^{OG}
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^{OG}
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 parameters with Health-related Criteria					
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[OG]
pH @25°C	pH Units		7.94	-	6.5 – 8.5[OG]
Colour	TCU	2	5	-	5[OG]
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[OG]
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:

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

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_O – 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 m^3/day (1,000 L/day).

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

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:

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

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 Clearances 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.
3. 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

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

6. References

Armstrong, D.K. and Carter, T.R. 2006. An updated guide to the subsurface Paleozoic stratigraphy of southern Ontario; Ontario Geological Survey, Open File Report 6191, 214p

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MECP (Ministry of Environment Conservation and Parks) 1996: D-5-4 Individual On-Site Sewage Systems: Water Quality Impact Risk Assessment, updated August 1996.

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NOTES:

1) Base drawing and information: obtained from the Ontario Ministry of Natural Resources and Forestry (MNRF); "Make a Map" Natural Heritage Areas; https://www.gisapplication.lrc.gov.on.ca/, accessed May 31, 2023

2) Limits of the proposed severances are approximate and subject to change

LEGEND:

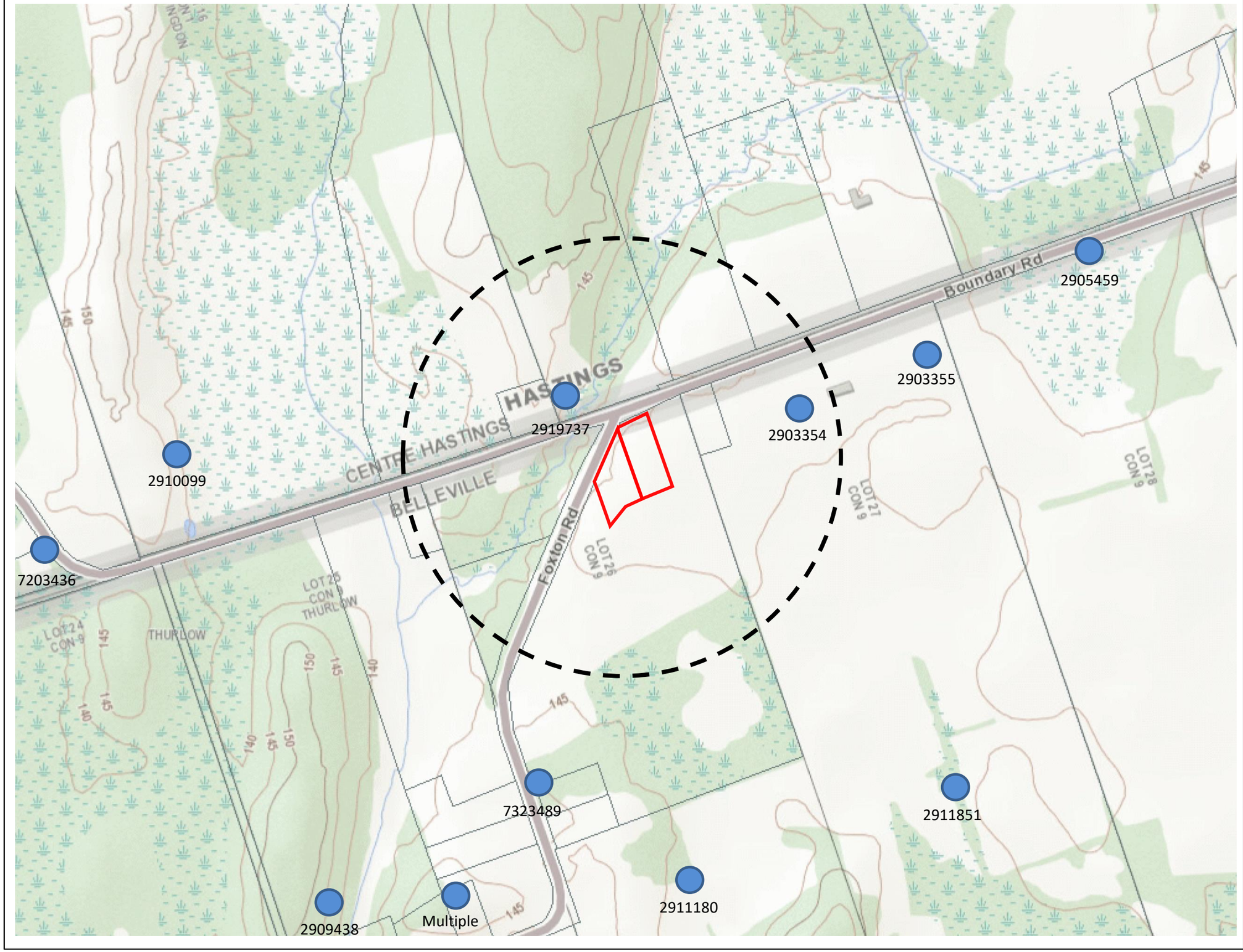
- Proposed severance boundary
- Retained lands
- Test Well
- Observation Well

PROJECT 2338574:

WATER SUPPLY/WELL INTERFERENCE EVALUATION
PROPOSED TWO-LOT SEVERANCE (B 26/22 + B 27/22)
676 FOXTON ROAD, ROSLIN, ONTARIO

DRAWING 1:

SITE PLAN SHOWING TEST WELLS



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NOTES:

1) Base drawing and information: obtained from the Ontario Ministry of Natural Resources and Forestry (MNRF); "Make a Map" Natural Heritage Areas; https://www.gisapplication.lrc.gov.on.ca/, accessed May 31, 2023

2) Limits of the proposed severance are approximate and subject to change

LEGEND:

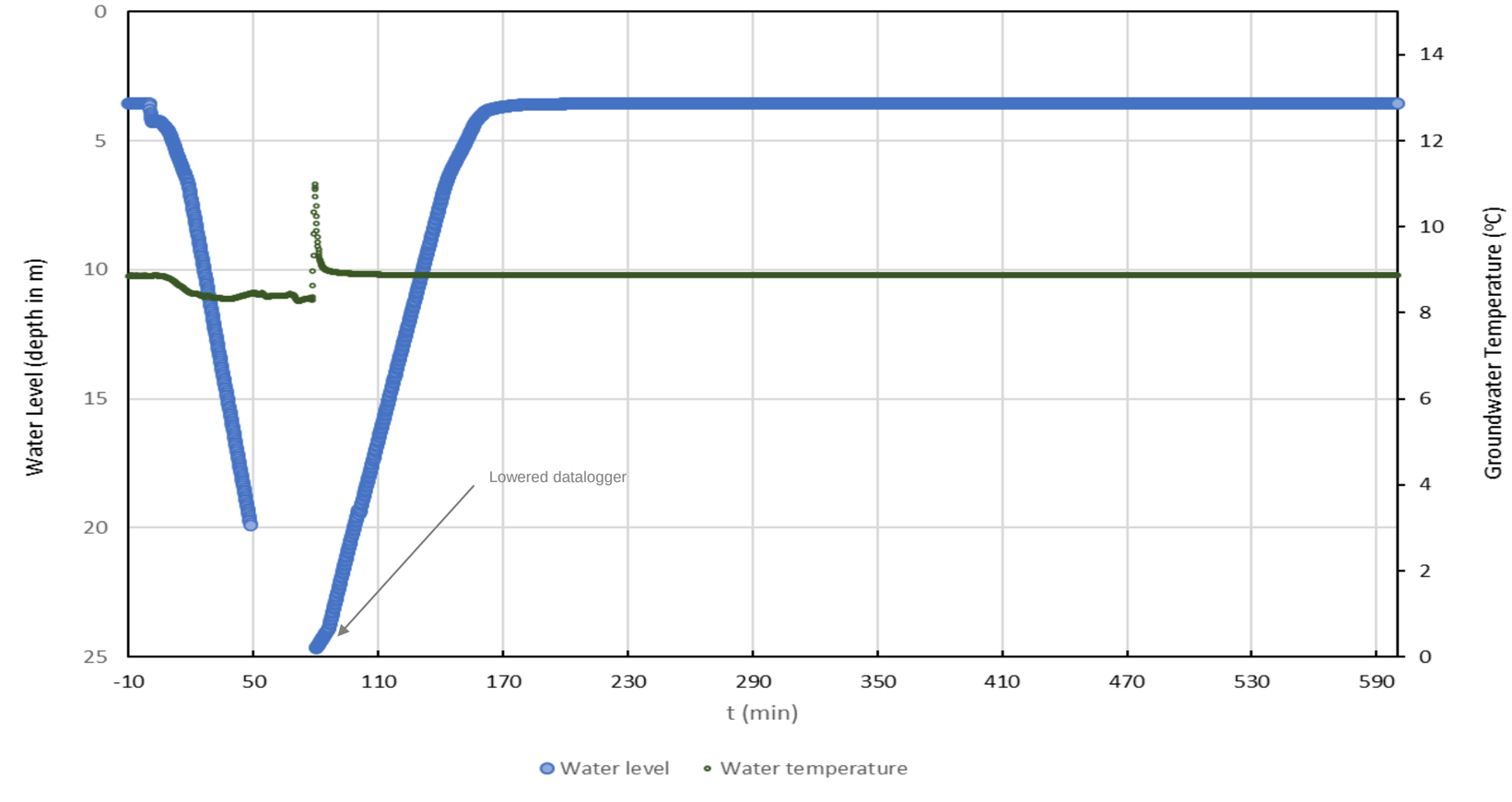
- Proposed severance boundary
- Retained lands
- 300 m radius from limit of severance

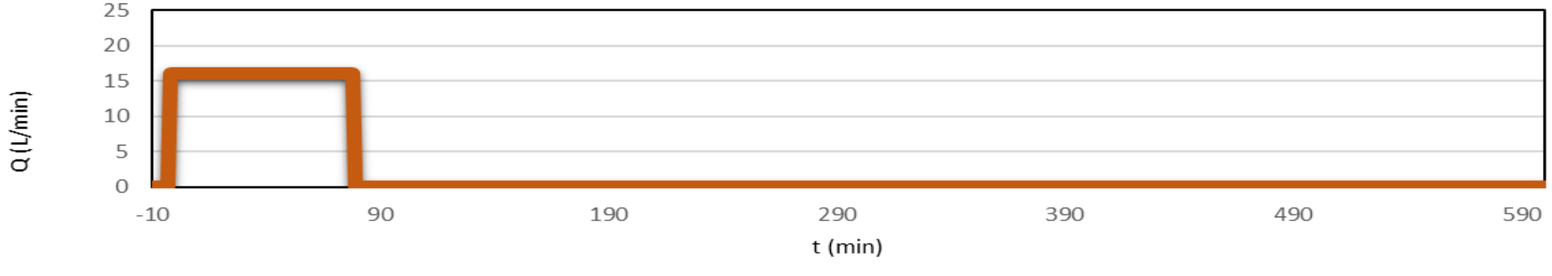
PROJECT 2338574:

WATER SUPPLY/WELL INTERFERENCE EVALUATION
PROPOSED TWO-LOT SEVERANCE (B 26/22 + B 27/22)
676 FOXTON ROAD, ROSLIN, ONTARIO

DRAWING 2:

SITE PLAN SHOWING MECP WATER WELLS





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NOTES:

1) Test completed June 6, 2023
2) On-site pressure and temperature data collected using a Solinst Model 3001 datalogging transducer using 10 s intervals
3) Water level data is not corrected for fluctuations in barometric pressure

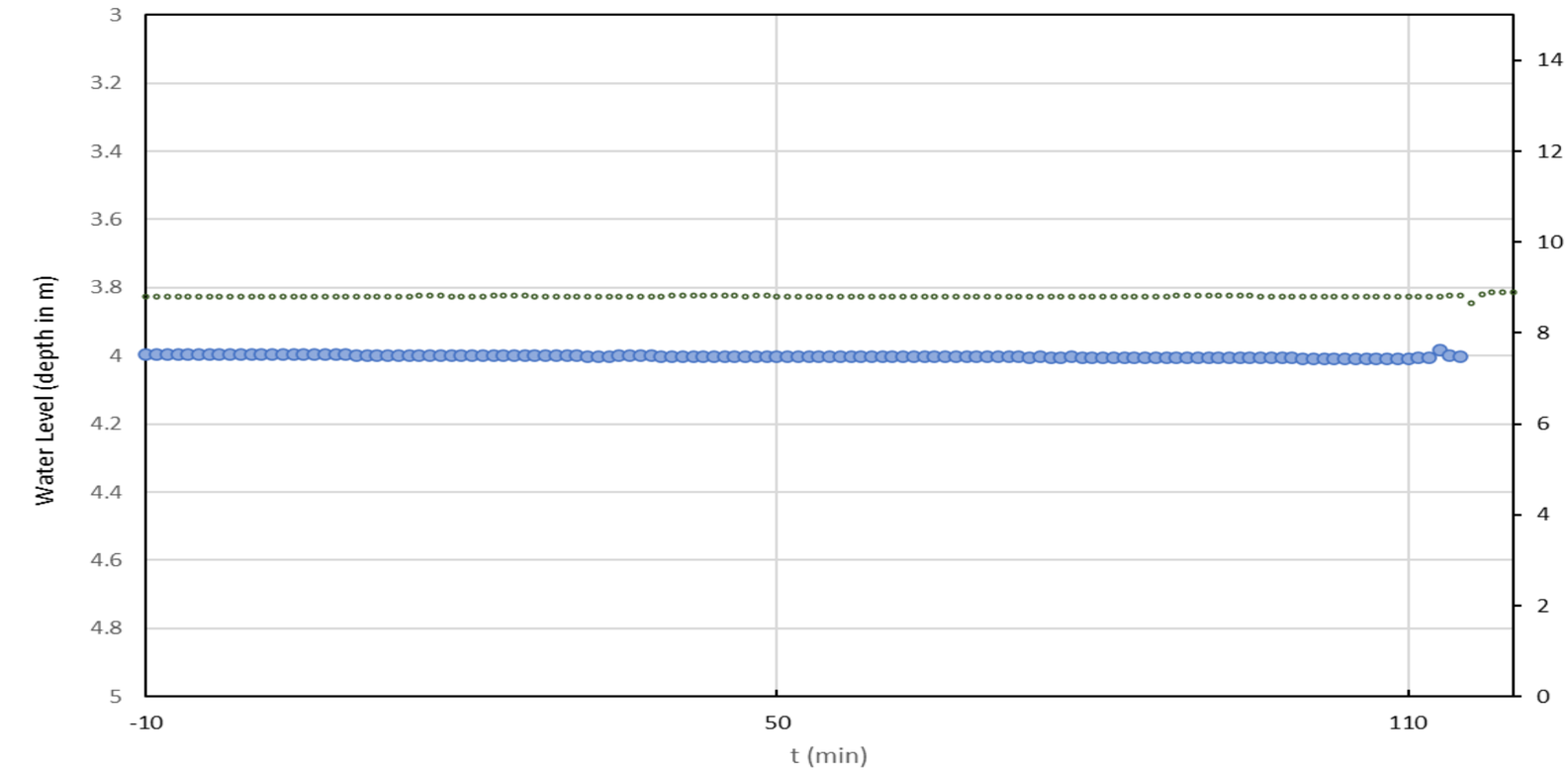
KEY PLAN:

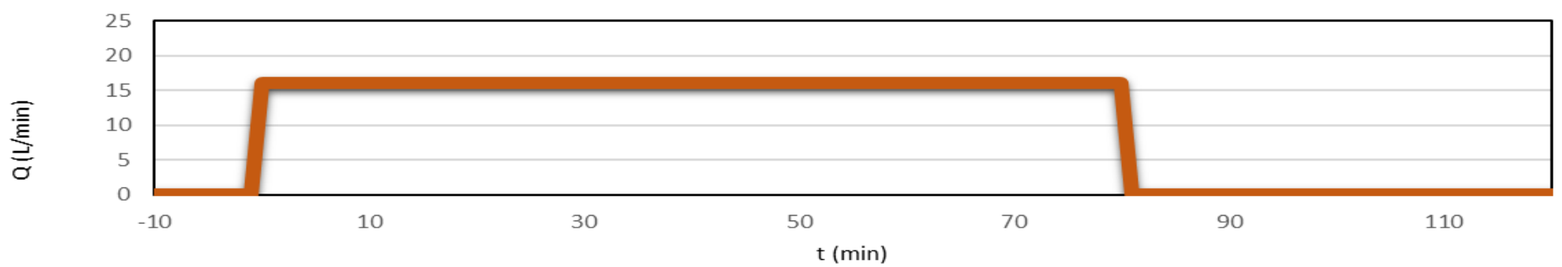
PROJECT 2238574:

WATER SUPPLY/WELL INTERFERENCE EVALUATION
PROPOSED TWO-LOT SEVERANCE (B 26/22 + B 27/22)
676 FOXTON ROAD, ROSLIN, ONTARIO

FIGURE B-1:

WELL HYDROGRAPH – TEST WELL 1 (A321308)





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NOTES:

1) Test completed June 6, 2023
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3) Water level data is not corrected for fluctuations in barometric pressure

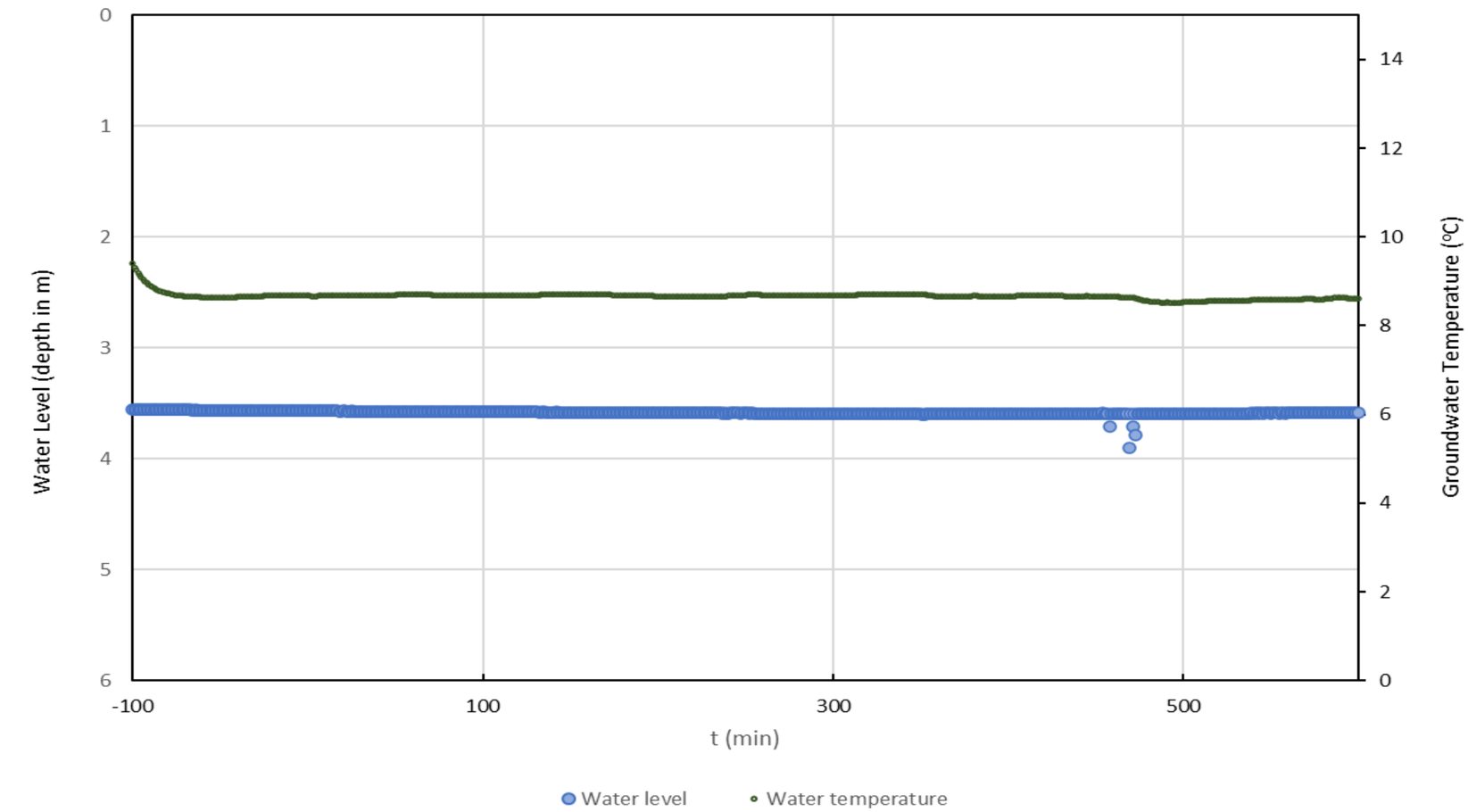
KEY PLAN:

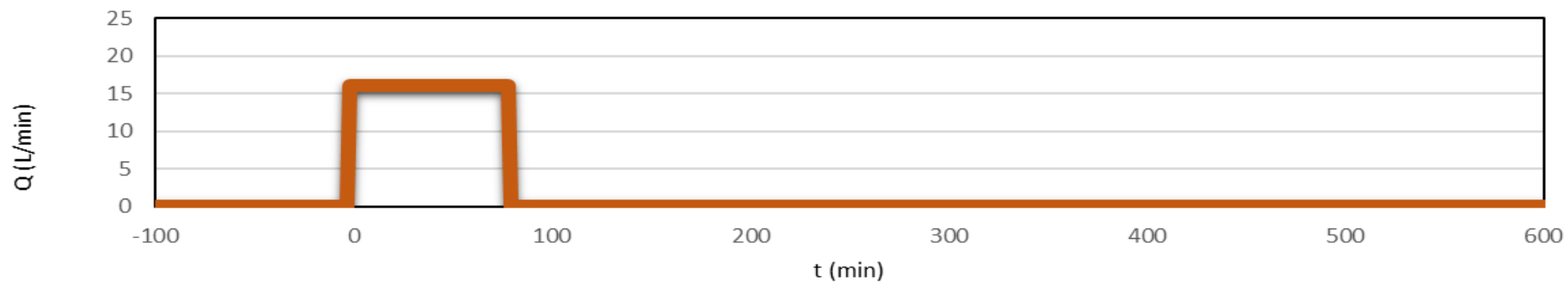
PROJECT 2238574:

WATER SUPPLY/WELL INTERFERENCE EVALUATION
PROPOSED TWO-LOT SEVERANCE (B 26/22 + B 27/22)
676 FOXTON ROAD, ROSLIN, ONTARIO

FIGURE B-2:

WELL HYDROGRAPH –
OBSERVATION WELL 2 (A321307)





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NOTES:

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2) On-site pressure and temperature data collected using a Solinst Model 3001 datalogging transducer using 10 s intervals
3) Water level data is not corrected for fluctuations in barometric pressure

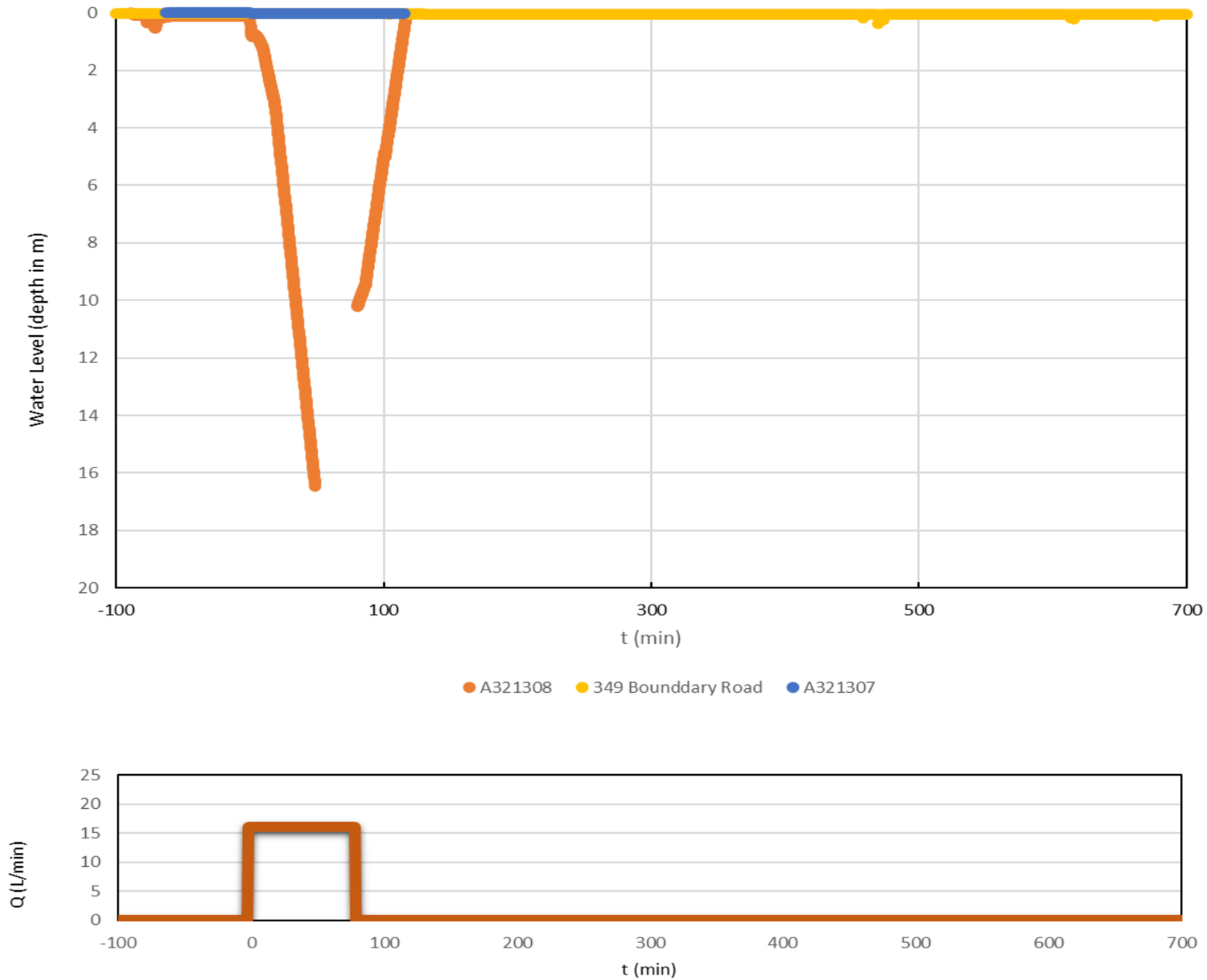
KEY PLAN:

PROJECT 2238574:

WATER SUPPLY/WELL INTERFERENCE EVALUATION
PROPOSED TWO-LOT SEVERANCE (B 26/22 + B 27/22)
676 FOXTON ROAD, ROSLIN, ONTARIO

FIGURE B-3:

WELL HYDROGRAPH – 349 BOUNDARY ROAD



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NOTES:

1) Test completed June 6, 2023
2) On-site pressure and temperature data collected using a Solinst Model 3001 datalogging transducer using 10 s intervals
3) Water level data is not corrected for fluctuations in barometric pressure

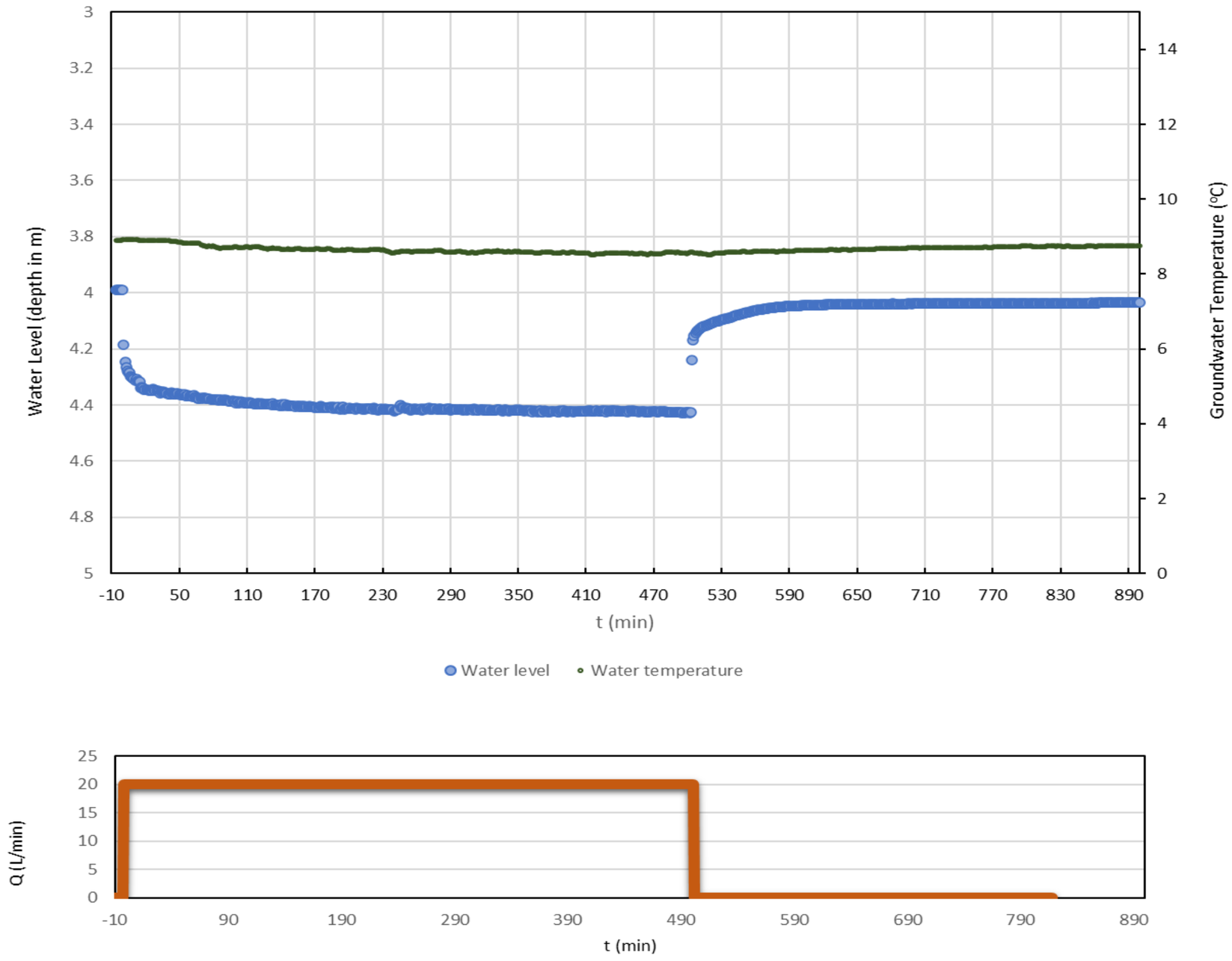
KEY PLAN:

PROJECT 2238574:

WATER SUPPLY/WELL INTERFERENCE EVALUATION
PROPOSED TWO-LOT SEVERANCE (B 26/22 + B 27/22)
676 FOXTON ROAD, ROSLIN, ONTARIO

FIGURE B-4:

OBSERVED DRAWDOWNS DURING TEST PUMPING OF TEST WELL 1 (A321308)



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NOTES:

1) Test completed June 6, 2023
2) On-site pressure and temperature data collected using a Solinst Model 3001 datalogging transducer using 60 s intervals
3) Water level data is not corrected for fluctuations in barometric pressure

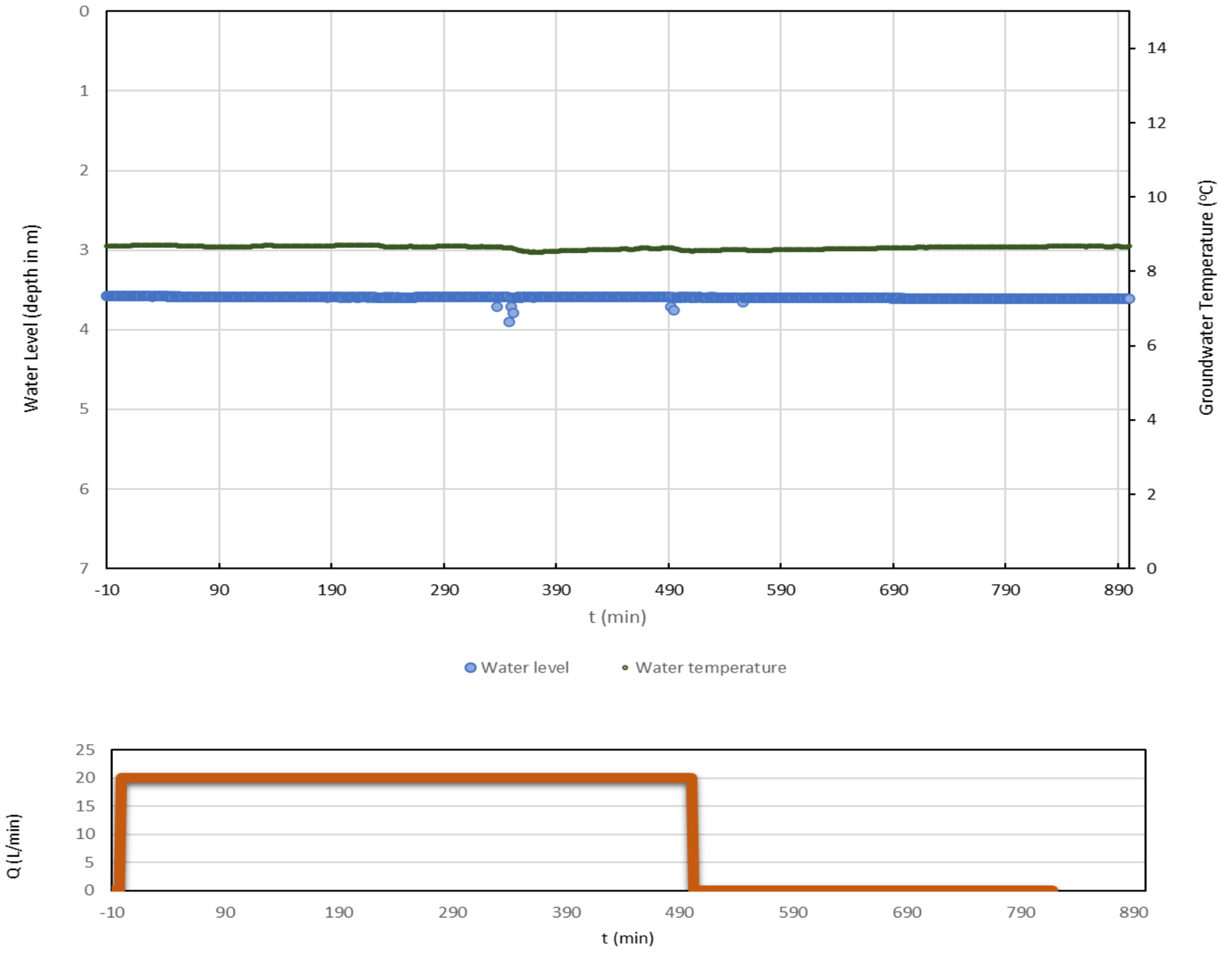
KEY PLAN:

PROJECT 2238574:

WATER SUPPLY/WELL INTERFERENCE EVALUATION
PROPOSED TWO-LOT SEVERANCE (B 26/22 + B 27/22)
676 FOXTON ROAD, ROSLIN, ONTARIO

FIGURE C-1:

WELL HYDROGRAPH – TEST WELL 2 (A21307)



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NOTES:

1) Test completed June 6, 2023
2) On-site pressure and temperature data collected using a Solinst Model 3001 datalogging transducer using 60 s intervals
3) Water level data is not corrected for fluctuations in barometric pressure

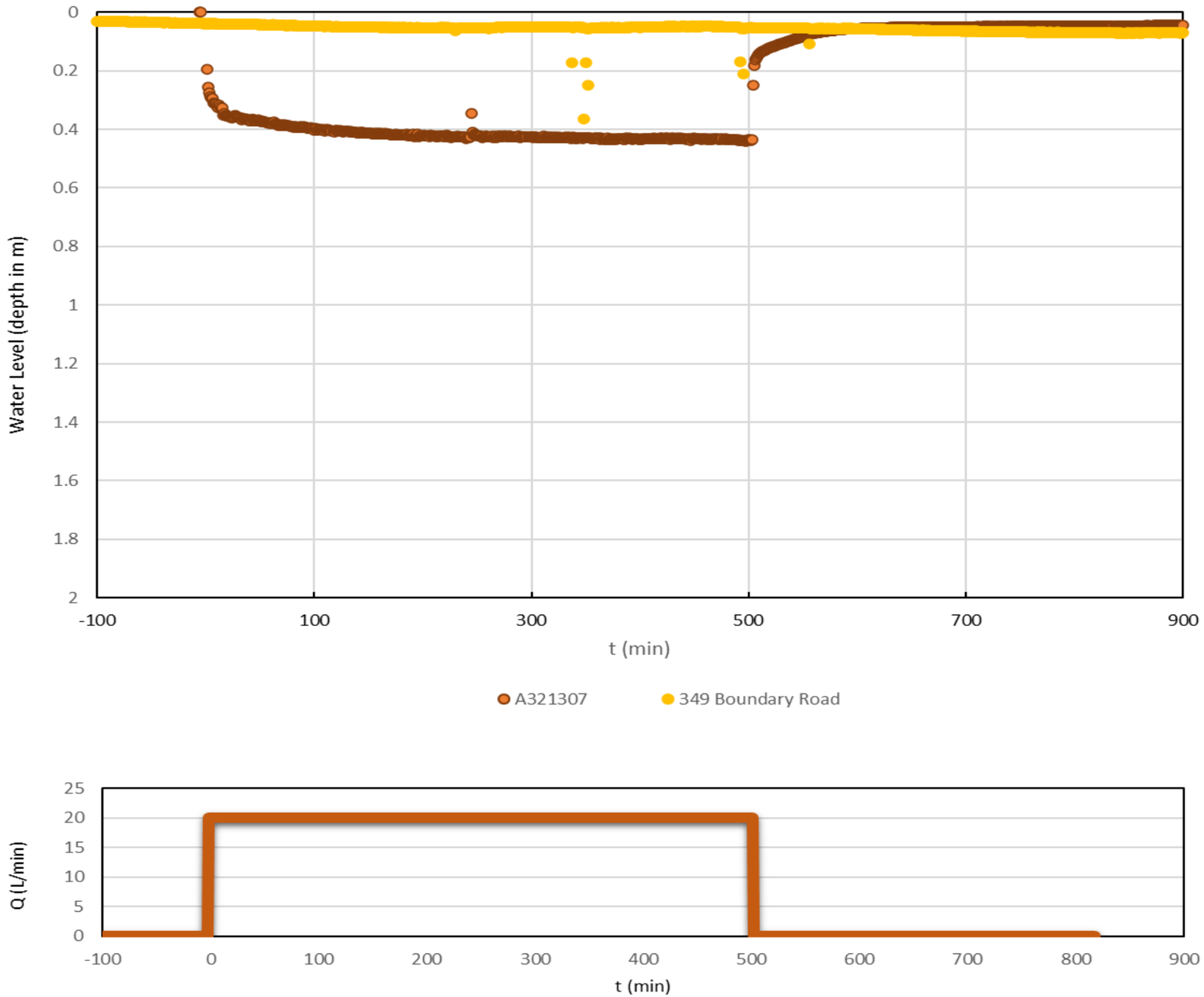
KEY PLAN:

PROJECT 2238574:

WATER SUPPLY/WELL INTERFERENCE EVALUATION
PROPOSED TWO-LOT SEVERANCE (B 26/22 + B 27/22)
676 FOXTON ROAD, ROSLIN, ONTARIO

FIGURE C-2:

WELL HYDROGRAPH – 349 BOUNDARY ROAD



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NOTES:

1) Test completed June 6, 2023
2) On-site pressure and temperature data collected using a Solinst Model 3001 datalogging transducer using 60 s intervals
3) Water level data is not corrected for fluctuations in barometric pressure

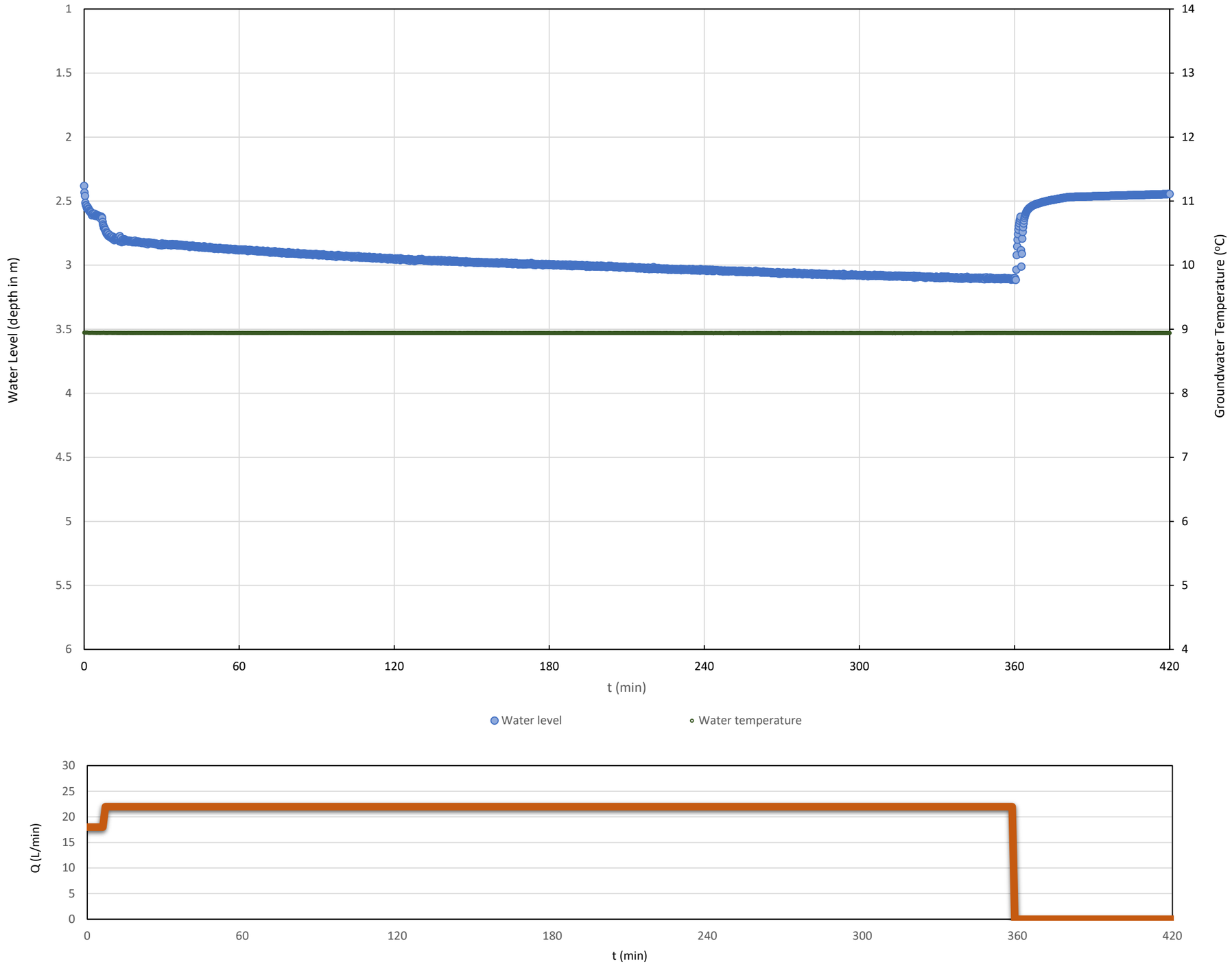
KEY PLAN:

PROJECT 2238574:

WATER SUPPLY/WELL INTERFERENCE EVALUATION
PROPOSED TWO-LOT SEVERANCE (B 26/22 + B 27/22)
676 FOXTON ROAD, ROSLIN, ONTARIO

FIGURE C-3:

OBSERVED DRAWDOWNS DURING TEST PUMPING OF TEST WELL 2 (A321307)



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NOTES:

1) Testing carried out on February 15, 2024
2) On-site pressure and temperature data collected using a Solinst Model 3001 datalogger transducer.
3) Water level data is not corrected for fluctuations in barometric pressure.

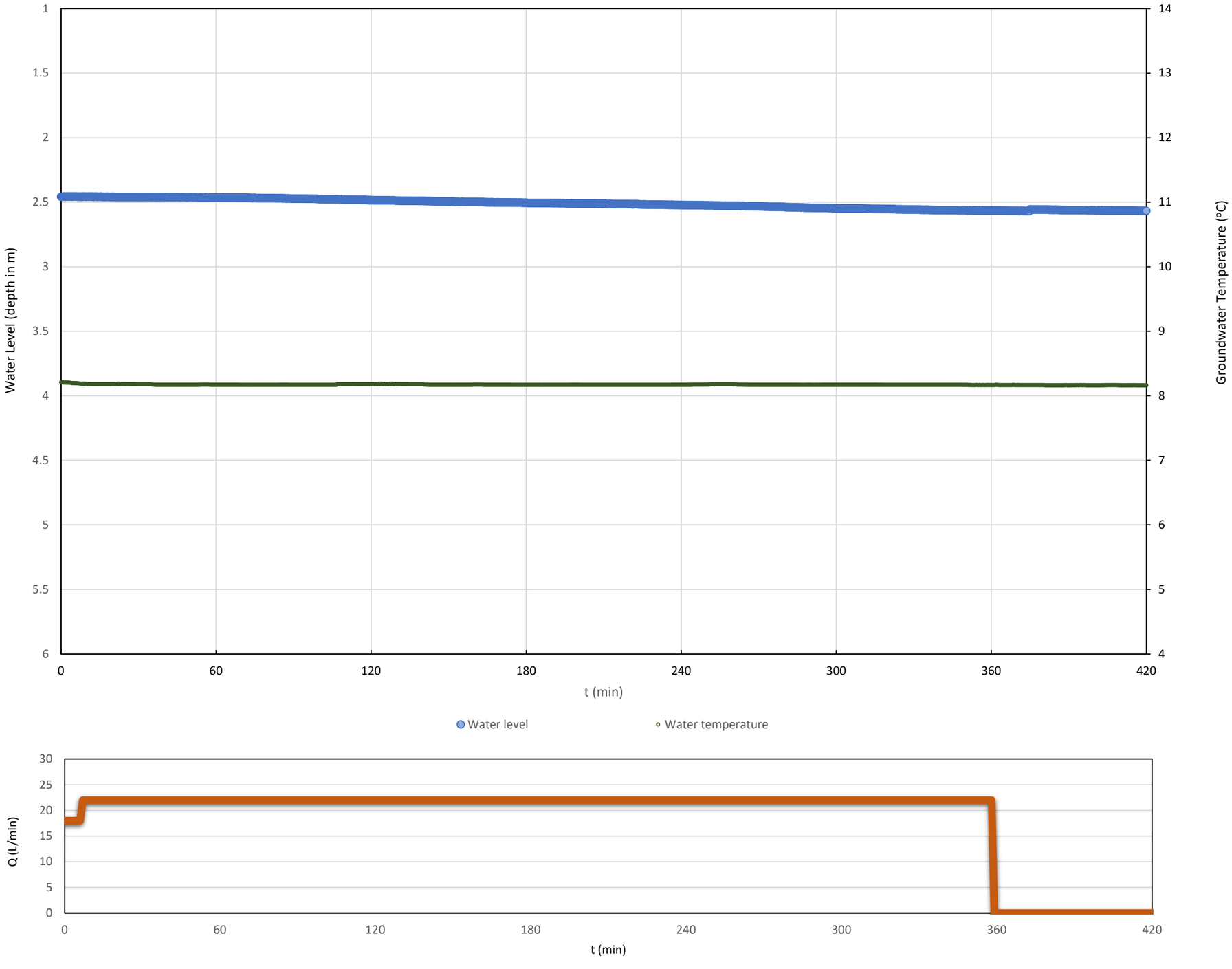
Key Plan:

PROJECT 2338574:

HYDROGEOLOGICAL ASSESSMENT
676 FOXTON ROAD
ROSLIN, ONTARIO

FIGURE 1:

WELL HYDROGRAPH – A320558 (TW)
FEBRUARY 15, 2024



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NOTES:

1) Testing carried out on February 15, 2024
2) On-site pressure and temperature data collected using a Solinst Model 3001 datalogger transducer.
3) Water level data is not corrected for fluctuations in barometric pressure.

Key Plan:

PROJECT 2338574:

HYDROGEOLOGICAL ASSESSMENT
676 FOXTON ROAD
ROSLIN, ONTARIO

FIGURE 2:

WELL HYDROGRAPH – A321307 (MW)
FEBRUARY 15, 2024

Appendix A

MECP Water Well Records

Ontario — Ministry of the Environment, Conservation and Parks

Well Record

Regulation 903 Ontario Water Resources Act

Well Tag No. (Place Sticker and/or Print Below): A320558

Measurements recorded in: ☐ Metric ☑ Imperial

Page 1 of 2

Well Owner's Information

First Name	Last Name/Organization	E-mail Address	☐ Well Constructed by Well Owner
JUSTIN	BELL		

Mailing Address (Street Number/Name)	Municipality	Province	Postal Code	Telephone No. (inc. area code)
676 FOXTON ROAD	ROSLIN	ON	K0K2N0	

Well Location

Address of Well Location (Street Number/Name)	Township	Lot	Concession
676 FOXTON ROAD			

County/District/Municipality	City/Town/Village	Province	Postal Code
HASTINGS	ROSLIN	Ontario	K0K2N0

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 83	18	321077	4911515		

Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on the back of this form)

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	Depth (m/ft) To
BROWN	TOP SOIL		SOFT	0	1
BROWN	SAND, ROCK		SOFT	1	5
BROWN	SAND, GRAVEL		HARD	5	11
GREY	LIMESTONE		HARD	11	100

Annular Space

Depth Set at (m/ft) From	Depth Set at (m/ft) To	Type of Sealant Used (Material and Type)	Volume Placed (m³/yd³)
20	15	3/4 GRAVEL	3.2
15	0	HOLEPLUG	4.8

Method of Construction

☐ Cable Tool ☐ Diamond
☐ Rotary (Conventional) ☐ Jetting
☐ Rotary (Reverse) ☐ Driving
☐ Boring ☐ Digging
☑ Air percussion
☐ Other, specify

Well Use

☐ Public ☐ Commercial ☐ Not used
☑ Domestic ☐ Municipal ☐ Dewatering
☐ Livestock ☐ Test Hole ☐ Monitoring
☐ Irrigation ☐ Cooling & Air Conditioning
☐ Industrial
☐ Other, specify

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft) From	Depth (m/ft) To
6.25	STEEL	.188	-2	20
	SLOTTED		18	20

Construction Record - Screen

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From	Depth (m/ft) To

Status of Well

☑ Water Supply
☐ Replacement Well
☐ Test Hole
☐ Recharge Well
☐ Dewatering Well
☐ Observation and/or Monitoring Hole
☐ Alteration (Construction)
☐ Abandoned, Insufficient Supply
☐ Abandoned, Poor Water Quality
☐ Abandoned, other, specify
☐ Other, specify

Water Details

Water found at Depth (m/ft)	Gas	Kind of Water	Other, specify
16	☐	☐ Fresh ☑ Untested	
25	☐	☐ Fresh ☑ Untested	
35	☐	☐ Fresh ☑ Untested	

Hole Diameter

Depth (m/ft) From	Depth (m/ft) To	Diameter (cm/in)
0	20	10
20	100	6

Results of Well Yield Testing

After test of well yield, water was:
☑ Clear and sand free
☐ Other, specify

If pumping discontinued, give reason:

Pump intake set at (m/ft): 98

Pumping rate (l/min / GPM): 5

Duration of pumping: 1 hrs + ____ min

Final water level end of pumping (m/ft): 95

If flowing give rate (l/min/GPM)

Recommended pump depth (m/ft): 98

Recommended pump rate (l/min/GPM): 5

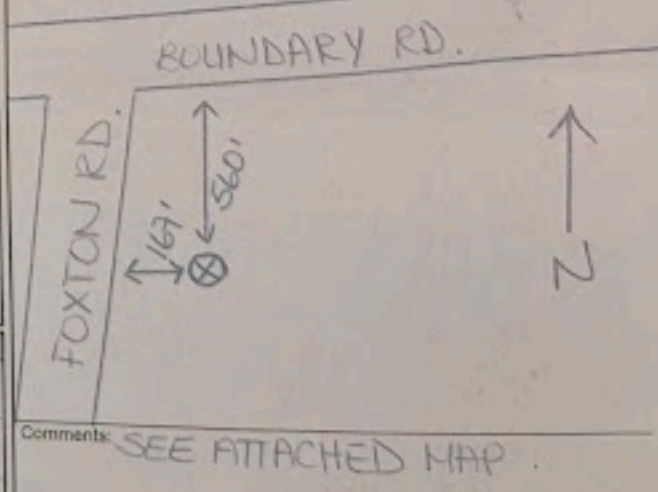
Well production (l/min/GPM): 4

Disinfected? ☑ Yes ☐ No

Draw Down Time (min)	Draw Down Water Level (m/ft)	Recovery Time (min)	Recovery Water Level (m/ft)
Static Level	12		95
1	12	1	91
2	12	2	86
3	13	3	82
4	14	4	77
5	14	5	73
10	23	10	53
15	32	15	33
20	38	20	16
25	46	25	13
30	56	30	13
40	73	40	12
50	88	50	12
60	95	60	12

Map of Well Location

Please provide a map below following instructions on the back.



Comments: SEE ATTACHED MAP.

Well Contractor and Well Technician Information

Business Name of Well Contractor	Well Contractor's Licence No.
MPI DRILLING	6517 11

Business Address (Street Number/Name)	Municipality
COMP 6007	PICTON

Province	Postal Code	Business E-mail Address
ON	K0K2T0	info@mpidrilling.com

Bus. Telephone No. (inc. area code)	Name of Well Technician (Last Name, First Name)
6138980165	SCOTT MUIR

Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted
21104		2024/07/04

Well owner's information package delivered	Date Package Delivered	Ministry Use Only
☑ Yes ☐ No	2024/07/04	Audit No. Z393523
	Date Work Completed: 2024/07/04	Received

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Well Owner's Copy

Ontario — Ministry of the Environment, Conservation and Parks

Well Tag No. (Place Sticker and/or Print Below): A320541

Well Record

Regulation 903 Ontario Water Resources Act

Measurements recorded in: ☐ Metric ☑ Imperial

Well Owner's Information

First Name	Last Name/Organization	E-mail Address	☐ Well Constructed by Well Owner
JUSTIN	BELL		

Mailing Address (Street Number/Name)	Municipality	Province	Postal Code	Telephone No. (inc. area code)
676 FOXTON ROAD	ROSLIN	ON.	K0K2Y0	

Well Location

Address of Well Location (Street Number/Name)	Township	Lot	Concession
676 FOXTON ROAD			

County/District/Municipality	City/Town/Village	Province	Postal Code
HASTINGS	ROSLIN	Ontario	K0K2Y0

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 8 3	18	322024	9912580		

Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on the back of this form)

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	Depth (m/ft) To
BLACK	TOP SOIL		SOFT	0	0.5
BROWN	SAND	GRAVEL	SOFT	0.5	12
GREY	LIMESTONE			12	100
	DRY/ABANDONED - BACK FILLED WITH HYDRATED HOLEPLUG			100	0

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)

Method of Construction

☐ Cable Tool ☐ Diamond ☐ Rotary (Conventional) ☐ Jetting ☐ Rotary (Reverse) ☐ Driving ☐ Boring ☐ Digging ☐ Air percussion ☐ Other, specify

Well Use

☐ Public ☐ Commercial ☐ Not used ☐ Domestic ☐ Municipal ☐ Dewatering ☐ Livestock ☐ Test Hole ☐ Monitoring ☐ Irrigation ☐ Cooling & Air Conditioning ☐ Industrial ☐ Other, specify

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft) From	Depth (m/ft) To

Construction Record - Screen

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From	Depth (m/ft) To

Status of Well

☐ Water Supply ☐ Replacement Well ☐ Test Hole ☐ Recharge Well ☐ Dewatering Well ☐ Observation and/or Monitoring Hole ☐ Alteration (Construction) ☑ Abandoned, Insufficient Supply ☐ Abandoned, Poor Water Quality ☐ Abandoned, other, specify ☐ Other, specify

Water Details

Water found at Depth (m/ft)	☐ Gas	Kind of Water: ☐ Fresh ☐ Untested ☐ Other, specify

Hole Diameter

Depth (m/ft) From	To	Diameter (cm/in)

Results of Well Yield Testing

After test of well yield, water was: ☐ Clear and sand free ☐ Other, specify

If pumping discontinued, give reason:

Pump intake set at (m/ft)

Pumping rate (l/min / GPM)

Duration of pumping ____ hrs + ____ min

Final water level end of pumping (m/ft)

If flowing give rate (l/min/GPM)

Recommended pump depth (m/ft)

Recommended pump rate (l/min/GPM)

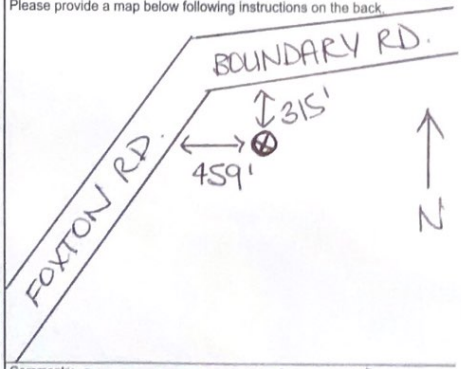
Well production (l/min/GPM)

Disinfected? ☐ Yes ☐ No

	Draw Down Time (min)	Draw Down Water Level (m/ft)	Recovery Time (min)	Recovery Water Level (m/ft)
Static Level				
1			1	
2			2	
3			3	
4			4	
5			5	
10			10	
15			15	
20			20	
25			25	
30			30	
40			40	
50			50	
60			60	

Map of Well Location

Please provide a map below following instructions on the back.



Comments: SEE ATTACHED MAP.

Well Contractor and Well Technician Information

Business Name of Well Contractor	Well Contractor's Licence No.
MPI DRILLING	6571

Business Address (Street Number/Name)	Municipality
COMP 6007	PICTON

Province	Postal Code	Business E-mail Address
ON.	K0K2T0	info@mpidrilling.com

Bus. Telephone No. (inc. area code)	Name of Well Technician (Last Name, First Name)
6139321165	SCOTT, HUGH

Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted
2104		2023 05 16

Well owner's information package delivered	Date Package Delivered	Date Work Completed
☑ Yes ☐ No	2023 05 16	2023 05 01

Ministry Use Only

Audit No. Z393541

Received

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Ministry's Copy

Ontario — Ministry of the Environment, Conservation and Parks

Measurements recorded in: ☐ Metric ☑ Imperial

Well Tag No. (Place Sticker and/or Print Below): A321307

Well Record

Regulation 903 Ontario Water Resources Act

Page 1 of 2

Well Owner's Information

First Name	Last Name/Organization	E-mail Address	☐ Well Constructed by Well Owner
JUSTIN	BELL		

Mailing Address (Street Number/Name)	Municipality	Province	Postal Code	Telephone No. (inc. area code)
676 FOXTON ROAD	ROSLIN	ON	K0K2Y0	

Well Location

Address of Well Location (Street Number/Name)	Township	Lot	Concession
676 FOXTON ROAD			

County/District/Municipality	City/Town/Village	Province	Postal Code
HASTINGS	ROSLIN	Ontario	K0K2Y0

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 8 3	18	321220	4902572		

Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on the back of this form)

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	Depth (m/ft) To
BLACK	TOP SOIL		SOFT	0	0.5
BROWN	SAND	ROCKS	SOFT	0.5	10.5
GREY	LIMESTONE		HARD	10.5	100

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
20	10	STONE	3.2
10	0	HOLEPLUG	3.2

Method of Construction

☐ Cable Tool ☐ Diamond
☐ Rotary (Conventional) ☐ Jetting
☐ Rotary (Reverse) ☐ Driving
☐ Boring ☐ Digging
☑ Air percussion
☐ Other, specify

Well Use

☐ Public ☐ Commercial ☐ Not used
☑ Domestic ☐ Municipal ☐ Dewatering
☐ Livestock ☐ Test Hole ☐ Monitoring
☐ Irrigation ☐ Cooling & Air Conditioning
☐ Industrial
☐ Other, specify

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft) From	Depth (m/ft) To
6 1/4	STEEL	.188	-2	20
	SLOTTED		19	20

Construction Record - Screen

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From	Depth (m/ft) To

Status of Well

☑ Water Supply
☐ Replacement Well
☐ Test Hole
☐ Recharge Well
☐ Dewatering Well
☐ Observation and/or Monitoring Hole
☐ Alteration (Construction)
☐ Abandoned, Insufficient Supply
☐ Abandoned, Poor Water Quality
☐ Abandoned, other, specify
☐ Other, specify

Water Details

Water found at Depth (m/ft)	Kind of Water: ☐ Fresh ☐ Untested ☐ Gas ☐ Other, specify
13	
26	
35	

Hole Diameter

Depth (m/ft) From	Depth (m/ft) To	Diameter (cm/in)
20	100	6
0	20	10

Results of Well Yield Testing

After test of well yield, water was:
☑ Clear and sand free
☐ Other, specify

If pumping discontinued, give reason: /

Pump intake set at (m/ft): 98

Pumping rate (l/min / GPM): 12

Duration of pumping: 1 hrs + ____ min

Final water level end of pumping (m/ft): 9.2

If flowing give rate (l/min/GPM): /

Recommended pump depth (m/ft): 95

Recommended pump rate (l/min/GPM): 10

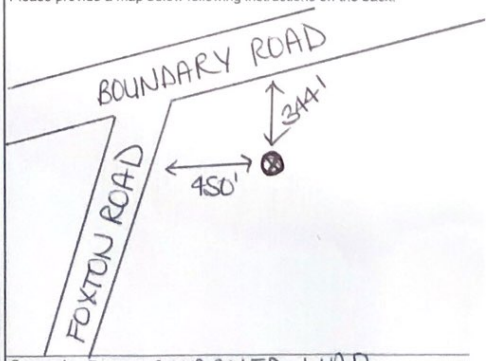
Well production (l/min/GPM): 12+

Disinfected? ☑ Yes ☐ No

Draw Down Time (min)	Draw Down Water Level (m/ft)	Recovery Time (min)	Recovery Water Level (m/ft)
Static Level	6.6		9.2
1	7.3	1	7.1
2	7.8	2	6.9
3	8.3	3	6.8
4	8.5	4	6.7
5	8.9	5	6.6
10	9.2	10	6.6
15	9.2	15	6.6
20	9.2	20	6.6
25	9.2	25	6.6
30	9.2	30	6.6
40	9.2	40	6.6
50	9.2	50	6.6
60	9.2	60	6.6

Map of Well Location

Please provide a map below following instructions on the back.



Comments: SEE ATTACHED MAP

Well Contractor and Well Technician Information

Business Name of Well Contractor	Well Contractor's Licence No.
MPI DRILLING	6571

Business Address (Street Number/Name)	Municipality
COMP 6007	PICTON

Province	Postal Code	Business E-mail Address
ON	K0K2T0	info@mpidrilling.com

Bus. Telephone No. (inc. area code)	Name of Well Technician (Last Name, First Name)
6133932165	SCOTT

Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted
2104		2023/05/16

Well owner's information package delivered	Date Package Delivered	Ministry Use Only
☑ Yes ☐ No	2023/05/16	Audit No. Z393538
	Date Work Completed: 2023/05/04	Received

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Ministry's Copy

Ontario — Ministry of the Environment, Conservation and Parks

Measurements recorded in: ☐ Metric ☑ Imperial

Well Tag No. (Place Sticker and/or Print Below): A321308

Well Record

Regulation 903 Ontario Water Resources Act

Page 1 of 2

Well Owner's Information

First Name	Last Name/Organization	E-mail Address	☐ Well Constructed by Well Owner
JUSTIN	BELL		

Mailing Address (Street Number/Name)	Municipality	Province	Postal Code	Telephone No. (inc. area code)
676 FOXTON ROAD	ROSLIN	ON	K0K2Y0	

Well Location

Address of Well Location (Street Number/Name)	Township	Lot	Concession
676 FOXTON ROAD			

County/District/Municipality	City/Town/Village	Province	Postal Code
HASTINGS	ROSLIN	Ontario	K0K2Y0

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 83	18	321274	9125331		

Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on the back of this form)

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	Depth (m/ft) To
BLACK			SOFT	0	0.5
BROWN	SAND	GRAVEL	SOFT	0.5	10
GREY	GRAVEL		HARD	10	12.5
GREY	LIMESTONE		HARD	12.5	100

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
0	10	HOLEPLUG	3.2
10	20	STONE	3.2

Method of Construction

☐ Cable Tool ☐ Diamond
☐ Rotary (Conventional) ☐ Jetting
☐ Rotary (Reverse) ☐ Driving
☐ Boring ☐ Digging
☑ Air percussion
☐ Other, specify

Well Use

☐ Public ☐ Commercial ☐ Not used
☐ Domestic ☐ Municipal ☐ Dewatering
☐ Livestock ☐ Test Hole ☐ Monitoring
☐ Irrigation ☐ Cooling & Air Conditioning
☐ Industrial
☐ Other, specify

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft) From	Depth (m/ft) To
6 1/4	STEEL	.188	-2	20
	SLOTED		19	20

Construction Record - Screen

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From	Depth (m/ft) To

Status of Well

☑ Water Supply
☐ Replacement Well
☐ Test Hole
☐ Recharge Well
☐ Dewatering Well
☐ Observation and/or Monitoring Hole
☐ Alteration (Construction)
☐ Abandoned, Insufficient Supply
☐ Abandoned, Poor Water Quality
☐ Abandoned, other, specify
☐ Other, specify

Results of Well Yield Testing

After test of well yield, water was:
☐ Clear and sand free
☐ Other, specify

If pumping discontinued, give reason:

Pump intake set at (m/ft): 98

Pumping rate (l/min / GPM): 10

Duration of pumping: 1 hrs + ___ min

Final water level end of pumping (m/ft): 86

If flowing give rate (l/min/GPM): —

Recommended pump depth (m/ft): 95

Recommended pump rate (l/min/GPM): 8

Well production (l/min/GPM): 9

Disinfected? ☑ Yes ☐ No

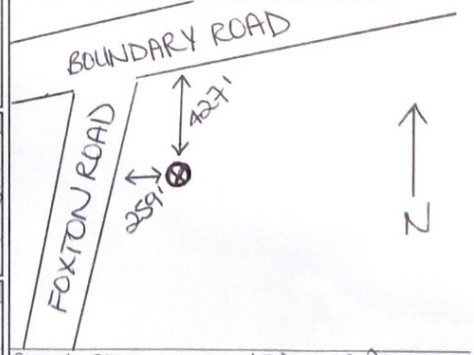
Draw Down Time (min)	Draw Down Water Level (m/ft)	Recovery Time (min)	Recovery Water Level (m/ft)
Static Level	7.1		86
1	8.2	1	82.3
2	8.7	2	79.7
3	9.5	3	77.4
4	9.5	4	75
5	10.7	5	72.4
10	14	10	60
15	15.7	15	47.6
20	20	20	35.5
25	41.1	25	23.3
30	55.5	30	15
40	82.3	40	8.5
50	84.8	50	7.1
60	86	60	7.1

Water Details

Water found at Depth	Kind of Water	Hole Diameter Depth From	Depth To	Diameter (cm/in)
14 (m/ft) ☐ Gas	☐ Fresh ☐ Untested ☐ Other, specify	20	100	6 1/8
36 (m/ft) ☐ Gas	☐ Fresh ☐ Untested ☐ Other, specify	0	20	10
44 (m/ft) ☐ Gas	☐ Fresh ☐ Untested ☐ Other, specify			

Map of Well Location

Please provide a map below following instructions on the back.



Comments: SEE ATTACHED MAP.

Well Contractor and Well Technician Information

Business Name of Well Contractor	Well Contractor's Licence No.
MPI DRILLING	6571

Business Address (Street Number/Name)	Municipality	Province	Postal Code	Business E-mail Address
COMP 6007	PICTON	ON.	K0K2T0	info@mpidrilling.com

Bus. Telephone No. (inc. area code)	Name of Well Technician (Last Name, First Name)	Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted
6139821165	SCOTT, HUGH	2104		20230516

Well owner's information package delivered	Date Package Delivered	Ministry Use Only
☑ Yes ☐ No	20230516	Audit No. Z393539
	Date Work Completed: 20230508	Received

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Ministry's Copy

UTM Z E

R N

Elev. R

Basin

County or District Hastings

Township, Village, Town or City Thurlow

Con. IX Lot 27

Date completed 12 (day) Nov (month) 66 (year)

[redacted]

Address Moira R. #1

29 No. 3354

The Ontario Water Resources Commission Act

WATER WELL RECORD

Casing and Screen Record

Inside diameter of casing 6 1/4"

Total length of casing 15 ft. 4"

Type of screen -

Length of screen -

Depth to top of screen -

Diameter of finished hole 6 1/4"

Pumping Test

Static level 10 ft.

Test-pumping rate 2 G.P.M.

Pumping level - DRY

Duration of test pumping 1 hr.

Water clear or cloudy at end of test clear

Recommended pumping rate up to 2 G.P.M.

with pump setting of 85' feet below ground surface

Well Log

Overburden and Bedrock Record	From ft.	To ft.	Water Record: Depth(s) at which water(s) found	Water Record: Kind of water (fresh, salty, sulphur)
Clay	0	3		
Gravel & Boulders	3	9	50	
Limestone Shale	9	13		fresh
Grey Limestone	13	88	80	

For what purpose(s) is the water to be used? farm

Is well on upland, in valley, or on hillside? upland

Drilling or Boring Firm George H. Chalk Jr.

Address R.R.#6 Napanee

Licence Number 2051

Name of Driller or Borer Keith Sills

Address R.R.#6 Napanee

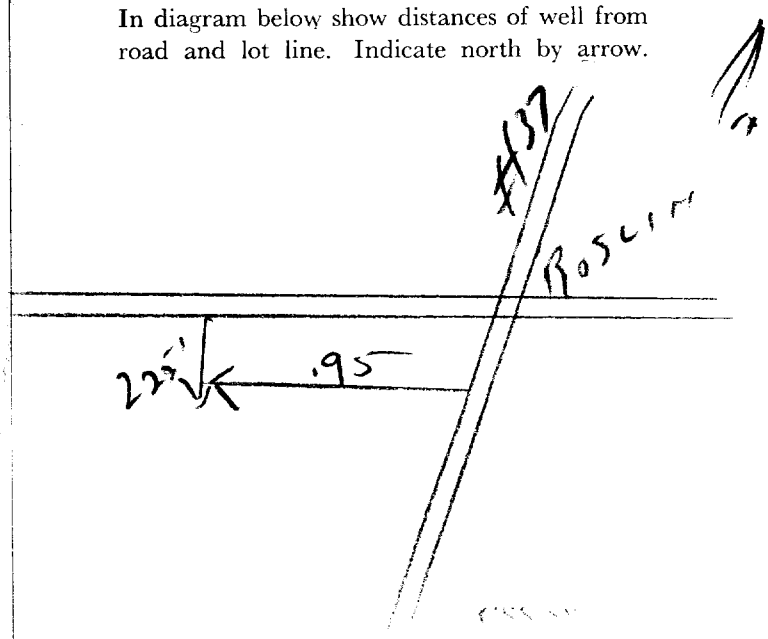
Date Nov. 15/66

George H. Chalk per KJS

(Signature of Licensed Drilling or Boring Contractor)

Location of Well

In diagram below show distances of well from road and lot line. Indicate north by arrow.



Form 7 15M-60-4138

OWRC COPY

C

29 No. 3355

UTM | | Z | | | | | | E

| 5 | R | | | | | | | N

Elev. | 5 | R | 0 | 4 | 7 | 4 |

Basin | 2 | 4 | | |

The Ontario Water Resources Commission Act

WATER WELL RECORD

County or District Hastings Township, Village, Town or City Thurlow

Con. IX Lot 28 Date completed 30 (day) Nov. (month) 1966 (year)

Owner [redacted] Address Rockin

(print in block letters)

Casing and Screen Record

Inside diameter of casing 6 1/4"

Total length of casing 6'-4"

Type of screen —

Length of screen —

Depth to top of screen —

Diameter of finished hole 6 11/8"

Pumping Test

Static level 1'

Test-pumping rate 50 G.P.M.

Pumping level —

Duration of test pumping 2 hrs.

Water clear or cloudy at end of test Clear

Recommended pumping rate — G.P.M.

with pump setting of 128' feet below ground surface

Well Log

Overburden and Bedrock Record	From ft.	To ft.	Water Record: Depth(s) at which water(s) found	Water Record: Kind of water (fresh, salty, sulphur)
Clay	0	2	30	
Limestone shale	2	4		
Hard grey limestone	4	131	90	fresh

For what purpose(s) is the water to be used? Farm

Is well on upland, in valley, or on hillside? upland

Drilling or Boring Firm George A. Clark Jr.

Address RR 6 Napanee

Licence Number 2051

Name of Driller or Borer Keith Sills

Address RR 6 Napanee

Date Nov 30/66

George A. Clark Jr.

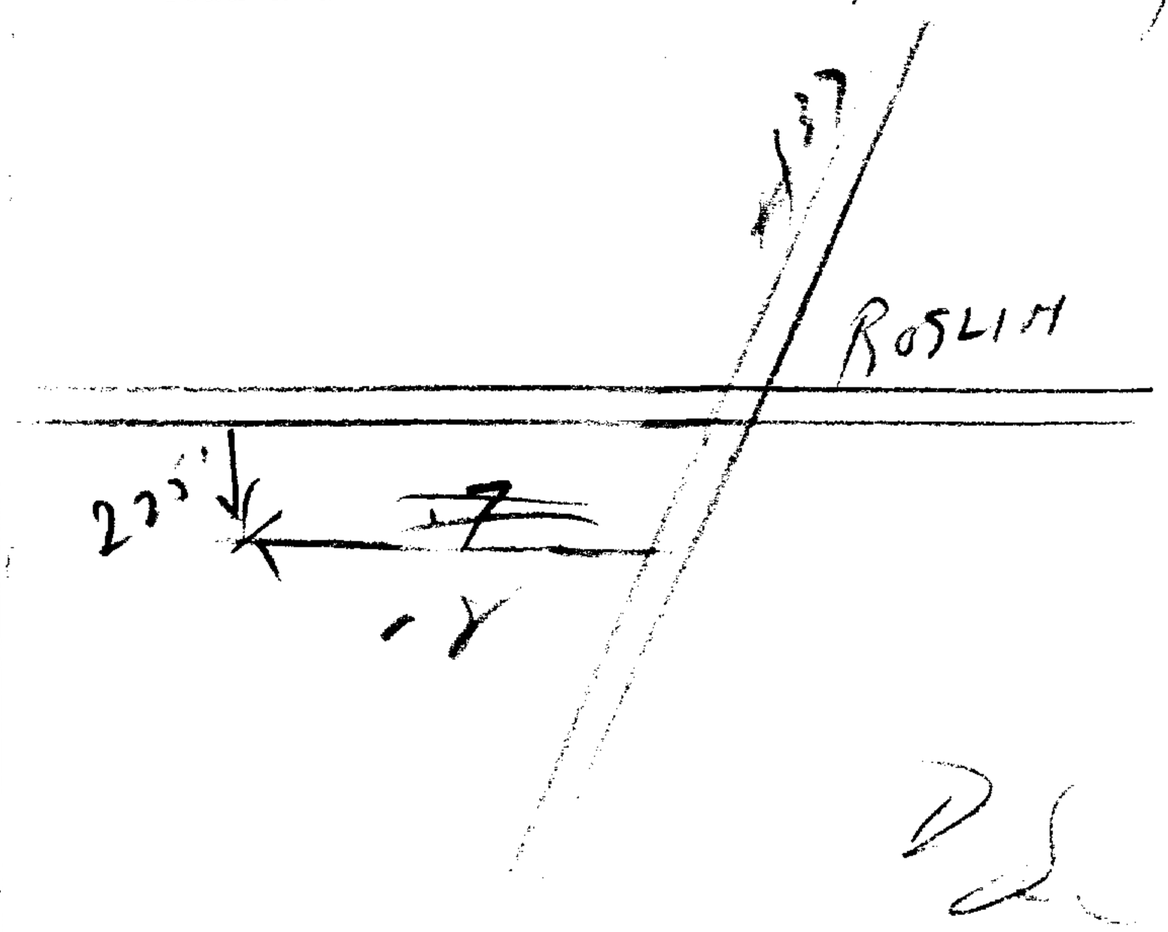
(Signature of Licensed Drilling or Boring Contractor)

Form 7 15M-60-4138

OWRC COPY

Location of Well

In diagram below show distances of well from road and lot line. Indicate north by arrow.



The Ontario Water Resources Commission Act

WATER WELL RECORD

3 1 C 6 W

Water management in Ontario

1. PRINT ONLY IN SPACES PROVIDED
2. CHECK ☒ CORRECT BOX WHERE APPLICABLE

11 | 2905459 | MUNICIP. 29020 | CON. 6 & N | 09

COUNTY OR DISTRICT: HASTINGS | TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: THURLOW | CON., BLOCK, TRACT, SURVEY, ETC.: IX | LOT: 29

OWNER (SURNAME FIRST): [redacted] | ADDRESS: ROSLIN | DATE COMPLETED: DAY 04 MO. 07 YR. 72

RECORD: 9/12/6440 | RC. 4 | ELEVATION 0470 | RC. 5 | BASIN CODE 21A

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH – FEET FROM	DEPTH – FEET TO
BROWN	HARDPAN	SMALL STONE	HARD, PACKED	0	9
GREY	SHALE		LOOSE	9	12½
DARK GREY	LIMESTONE		HARD	12½	61

31: 000916 14 12 | 00 12 21 17 | 00 6 12 15

32:

41 WATER RECORD

WATER FOUND AT – FEET	KIND OF WATER
0058	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH – FEET FROM	DEPTH – FEET TO
06	1 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	.188	0	0014
06	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☒ OPEN HOLE		14	0061
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			

SCREEN

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET
MATERIAL AND TYPE	DEPTH TO TOP OF SCREEN FEET	

61 PLUGGING & SEALING RECORD

DEPTH SET AT – FEET FROM	DEPTH SET AT – FEET TO	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)

71 PUMPING TEST

PUMPING TEST METHOD: ☐ PUMP ☒ BAILER | PUMPING RATE: 0003 GPM. | DURATION OF PUMPING: 01 HOURS 00 MINS.

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING: 1 ☐ PUMPING 2 ☒ RECOVERY	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
025 FEET	061 FEET		037 FEET	027 FEET	025 FEET	025 FEET

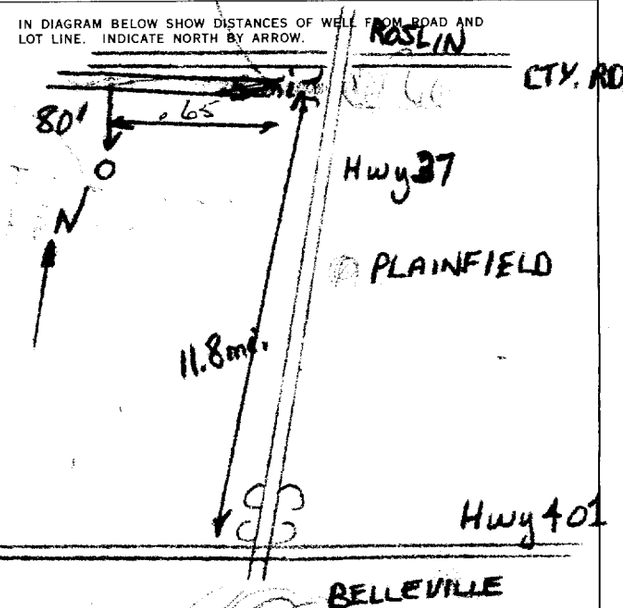
IF FLOWING, GIVE RATE: GPM. | PUMP INTAKE SET AT: FEET | WATER AT END OF TEST: 1 ☒ CLEAR 2 ☐ CLOUDY

RECOMMENDED PUMP TYPE: ☐ SHALLOW ☒ DEEP | RECOMMENDED PUMP SETTING: 058 FEET | RECOMMENDED PUMPING RATE: 0003 GPM.

50-53: 000.1 GPM./FT. SPECIFIC CAPACITY

LOCATION OF WELL

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW.



DRILLERS REMARKS:

FINAL STATUS OF WELL

54: 1 ☒ WATER SUPPLY 2 ☐ OBSERVATION WELL 3 ☐ TEST HOLE 4 ☐ RECHARGE WELL 5 ☐ ABANDONED, INSUFFICIENT SUPPLY 6 ☐ ABANDONED, POOR QUALITY 7 ☐ UNFINISHED

WATER USE

55-56: 01

1 ☒ DOMESTIC 2 ☐ STOCK 3 ☐ IRRIGATION 4 ☐ INDUSTRIAL ☐ OTHER 5 ☐ COMMERCIAL 6 ☐ MUNICIPAL 7 ☐ PUBLIC SUPPLY 8 ☐ COOLING OR AIR CONDITIONING 9 ☐ NOT USED

METHOD OF DRILLING

57: 1 ☒ CABLE TOOL 2 ☐ ROTARY (CONVENTIONAL) 3 ☐ ROTARY (REVERSE) 4 ☐ ROTARY (AIR) 5 ☐ AIR PERCUSSION 6 ☐ BORING 7 ☐ DIAMOND 8 ☐ JETTING 9 ☐ DRIVING

CONTRACTOR

NAME OF WELL CONTRACTOR: CHALK WELL DRILLING LTD. | LICENCE NUMBER: 1507

ADDRESS: R.R. #6 NAPANEE

NAME OF DRILLER OR BORER: OAKLEY MILLS | LICENCE NUMBER:

SIGNATURE OF CONTRACTOR: CHALK WELL DRILLING LTD. per S.R.C. | SUBMISSION DATE: DAY 4 MO. 7 YR. 72

OWRC COPY

OFFICE USE ONLY

58 DATA SOURCE: 1 | 59-62 CONTRACTOR: 1507 | 63-68 DATE RECEIVED: 200972

DATE OF INSPECTION: | INSPECTOR: K

REMARKS: P K WI

Ministry of the Environment

Ontario

The Ontario Water Resources Act

WATER WELL RECORD

31C/16W

1. PRINT ONLY IN SPACES PROVIDED
2. CHECK ☒ CORRECT BOX WHERE APPLICABLE

11 2909438

MUNICIP 29020 CON. CON 09

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON., BLOCK, TRACT, SURVEY, ETC.	LOT
Hastings	Thurlow	9	025

[redacted]

DATE COMPLETED DAY 04 MO 07 YR 79

#1, Roslin, Ont.

RC 5 ELEVATION 0450 RC 5 BASIN CODE 24

9/1699

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	DEPTH - FEET TO
brown	clay	gravel boulders	packed	0	~~00~~
grey	limestone		layered	~~00~~	
				0	15
				15	90

31 00156051113 00902157 4

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0080	1 ☑ FRESH 3 ☐ SULPHUR; 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR; 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR; 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR; 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR; 2 ☐ SALTY 4 ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	DEPTH - FEET TO
06 6"	1 ☑ STEEL; 2 ☐ GALVANIZED; 3 ☐ CONCRETE; 4 ☐ OPEN HOLE	.188	0	0015
06 11	1 ☐ STEEL; 2 ☐ GALVANIZED; 3 ☐ CONCRETE; 4 ☑ OPEN HOLE		15	0090
	1 ☐ STEEL; 2 ☐ GALVANIZED; 3 ☐ CONCRETE; 4 ☐ OPEN HOLE			

SCREEN

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET

MATERIAL AND TYPE | DEPTH TO TOP OF SCREEN FEET

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET FROM	DEPTH SET AT - FEET TO	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)

71 PUMPING TEST

PUMPING TEST METHOD 1 ☒ PUMP 2 ☐ BAILER

PUMPING RATE 0004 GPM | DURATION OF PUMPING 01 HOURS 00 MINS

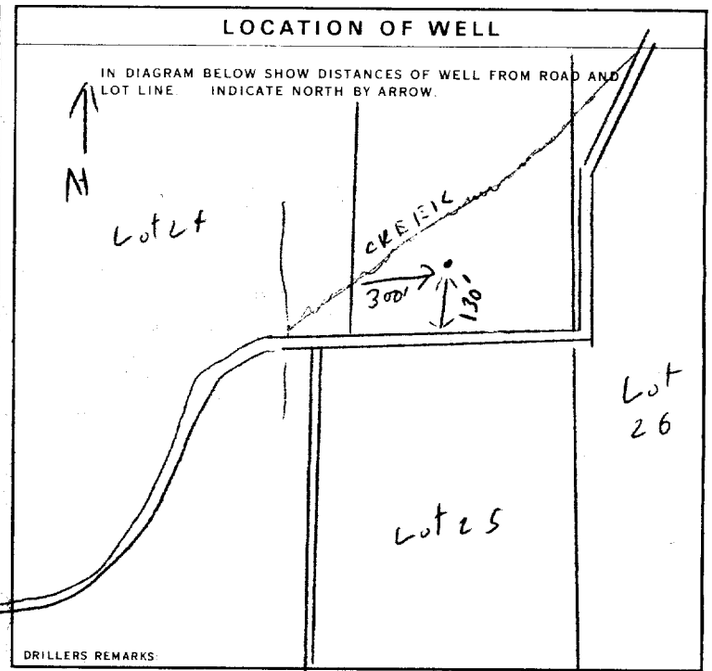
STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING: 1 ☐ PUMPING 2 ☑ RECOVERY			
		15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
008 FEET	090 FEET	060 FEET	030 FEET	010 FEET	008 FEET

IF FLOWING, GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST
GPM	FEET	1 ☑ CLEAR 2 ☐ CLOUDY

RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING	RECOMMENDED PUMPING RATE
☐ SHALLOW ☑ DEEP	087 FEET	0003 GPM

LOCATION OF WELL

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW.



DRILLERS REMARKS:

FINAL STATUS OF WELL 54: 1 ☑ WATER SUPPLY; 2 ☐ OBSERVATION WELL; 3 ☐ TEST HOLE; 4 ☐ RECHARGE WELL; 5 ☐ ABANDONED, INSUFFICIENT SUPPLY; 6 ☐ ABANDONED, POOR QUALITY; 7 ☐ UNFINISHED

WATER USE 55-56 01: 1 ☑ DOMESTIC; 2 ☐ STOCK; 3 ☐ IRRIGATION; 4 ☐ INDUSTRIAL; ☐ OTHER; 5 ☐ COMMERCIAL; 6 ☐ MUNICIPAL; 7 ☐ PUBLIC SUPPLY; 8 ☐ COOLING OR AIR CONDITIONING; 9 ☐ NOT USED

METHOD OF DRILLING 57: 4: 1 ☐ CABLE TOOL; 2 ☐ ROTARY (CONVENTIONAL); 3 ☐ ROTARY (REVERSE); 4 ☑ ROTARY (AIR); 5 ☐ AIR PERCUSSION; 6 ☐ BORING; 7 ☐ DIAMOND; 8 ☐ JETTING; 9 ☐ DRIVING

CONTRACTOR

NAME OF WELL CONTRACTOR: McClennon Drilling Ltd. | LICENCE NUMBER: 3516

ADDRESS: Wellington, Ont.

NAME OF DRILLER OR BORER: Kenneth W. McClennon | LICENCE NUMBER:

SIGNATURE OF CONTRACTOR: Kenneth W McClennon | SUBMISSION DATE DAY ____ MO. ____ YR. ____

OFFICE USE ONLY

DATA SOURCE 58: 1 | CONTRACTOR 59-62: 3516 | DATE RECEIVED 63-68: 150480 | 80

DATE OF INSPECTION | INSPECTOR

REMARKS:

8

CSS.S8

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FORM NO. 0506—4—77

31C6

Ministry of the Environment
Ontario

The Ontario Water Resources Act

WATER WELL RECORD

1. PRINT ONLY IN SPACES PROVIDED
2. CHECK ☒ CORRECT BOX WHERE APPLICABLE

11 2910099 MUNICIP 29.010 CON C6N 01

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON. BLOCK, TRACT, SURVEY, ETC.	LOT 25-27
[redacted]	HUNTINGDON	1	016

[redacted] THOMAS BURG — DATE COMPLETED 48-53: DAY 04 MO 08 YR 82

UTM 12399 RC 5 ELEVATION 0450 RC 5 BASIN CODE 24

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH FEET FROM	DEPTH FEET TO
BROWN	TOP SOIL			0	2
GREY	CLAY	& BOULDERS		2	36
GREY			LIMESTONE	36	150

31 0002 02 0036 20 5 13 01 50 21 5

32 UNTREATED

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0142	1 ☒ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH FEET FROM	DEPTH FEET TO
06 Liv	1 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	188 W	0	0035
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE		35	0150
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			

SCREEN

SIZE OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET

MATERIAL AND TYPE | DEPTH TO TOP OF SCREEN FEET

61 PLUGGING & SEALING RECORD

DEPTH SET AT FEET FROM	TO	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)
10-13	14-17	
18-21	22-25	
26-29	30-33	

71 PUMPING TEST

PUMPING TEST METHOD	PUMPING RATE GPM	DURATION OF PUMPING HOURS MINS
1 ☒ PUMP 2 ☐ BAILER	0005	01 00

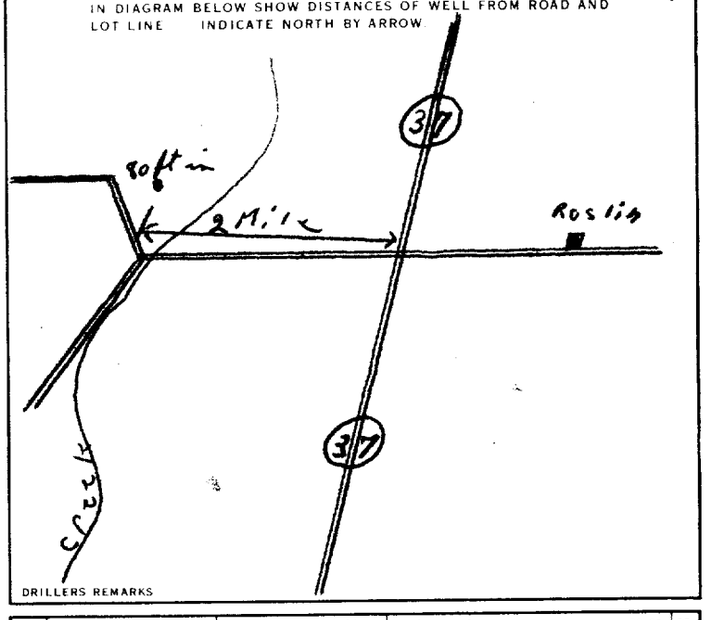
STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING (1 ☐ PUMPING 2 ☐ RECOVERY)	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
025 FEET	140 FEET		FEET	FEET	FEET	FEET

IF FLOWING, GIVE RATE GPM	PUMP INTAKE SET AT FEET	WATER AT END OF TEST 1 ☒ CLEAR 2 ☐ CLOUDY
	140	

RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING FEET	RECOMMENDED PUMPING RATE GPM
☐ SHALLOW ☒ DEEP	140	0005

LOCATION OF WELL

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW.



DRILLERS REMARKS

FINAL STATUS OF WELL 1
1 ☒ WATER SUPPLY 2 ☐ OBSERVATION WELL 3 ☐ TEST HOLE 4 ☐ RECHARGE WELL 5 ☐ ABANDONED, INSUFFICIENT SUPPLY 6 ☐ ABANDONED, POOR QUALITY 7 ☐ UNFINISHED

WATER USE 01
1 ☒ DOMESTIC 2 ☐ STOCK 3 ☐ IRRIGATION 4 ☐ INDUSTRIAL ☐ OTHER 5 ☐ COMMERCIAL 6 ☐ MUNICIPAL 7 ☐ PUBLIC SUPPLY 8 ☐ COOLING OR AIR CONDITIONING 9 ☐ NOT USED

METHOD OF DRILLING 2
1 ☐ CABLE TOOL 2 ☒ ROTARY (CONVENTIONAL) 3 ☐ ROTARY (REVERSE) 4 ☐ ROTARY (AIR) 5 ☐ AIR PERCUSSION 6 ☐ BORING 7 ☐ DIAMOND 8 ☐ JETTING 9 ☐ DRIVING

CONTRACTOR

NAME OF WELL CONTRACTOR: BILL'S WELL DRILLING — LICENCE NUMBER: 1352
ADDRESS: 271 MAIN ST. FOXBORO
NAME OF DRILLER OR BORER: WILLIAM DONALDSON — LICENCE NUMBER: 1352
SIGNATURE OF CONTRACTOR: William Donaldson — SUBMISSION DATE: DAY 4 MO 8 YR 82

OFFICE USE ONLY

DATA SOURCE 1 | CONTRACTOR 1352 | DATE RECEIVED 10 08 82
DATE OF INSPECTION | INSPECTOR
REMARKS

CSS.ES

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FORM NO. [illegible] 7-77 FORM 7

Ministry of the Environment
Ontario

The Ontario Water Resources Act 31 C6W

WATER WELL RECORD

1. PRINT ONLY IN SPACES PROVIDED
2. CHECK ☒ CORRECT BOX WHERE APPLICABLE

11 — 2910865 — MUNICIP. 29020 — CON. CON 09

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON., BLOCK, TRACT, SURVEY, ETC.	LOT
HASTINGS	THURLOW	9	25

[redacted] 2 FRANKFORD

DATE COMPLETED: DAY 17 MO 4 YR 85

HWY — RC — ELEVATION — RC — BASIN CODE

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	DEPTH - FEET TO
BROWN	TOP SOIL			1	2
GREY	CLAY	& BOULDERS		2	6
GREY		GRAVEL		6	12
GREY			LIMESTONE	12	63

31

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
14	1 ☒ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
30	1 ☒ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	DEPTH - FEET TO
6¼	1 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	188 W	0	12
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☒ OPEN HOLE		12	63
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			

SCREEN

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER (INCHES)	LENGTH (FEET)

MATERIAL AND TYPE — DEPTH TO TOP OF SCREEN (FEET)

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET FROM	DEPTH SET AT - FEET TO	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)

71 PUMPING TEST

PUMPING TEST METHOD: 1 ☐ PUMP 2 ☒ BAILER

PUMPING RATE: 5 GPM — DURATION OF PUMPING: 1 HOURS — MINS

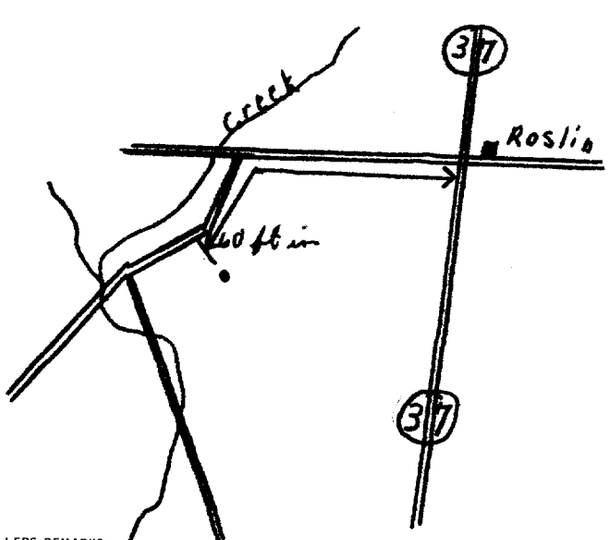
STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING: 1 ☐ PUMPING 2 ☐ RECOVERY	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
8 FEET	58 FEET		FEET	FEET	FEET	FEET

IF FLOWING, GIVE RATE: GPM — PUMP INTAKE SET AT: 60 FEET — WATER AT END OF TEST: 1 ☒ CLEAR 2 ☐ CLOUDY

RECOMMENDED PUMP TYPE: ☐ SHALLOW ☒ DEEP — RECOMMENDED PUMP SETTING: 60 FEET — RECOMMENDED PUMPING RATE: 4 GPM

4013 LOCATION OF WELL

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW.



DRILLERS REMARKS:

FINAL STATUS OF WELL

1 ☒ WATER SUPPLY 2 ☐ OBSERVATION WELL 3 ☐ TEST HOLE 4 ☐ RECHARGE WELL 5 ☐ ABANDONED, INSUFFICIENT SUPPLY 6 ☐ ABANDONED, POOR QUALITY 7 ☐ UNFINISHED

WATER USE

1 ☒ DOMESTIC 2 ☐ STOCK 3 ☐ IRRIGATION 4 ☐ INDUSTRIAL ☐ OTHER 5 ☐ COMMERCIAL 6 ☐ MUNICIPAL 7 ☐ PUBLIC SUPPLY 8 ☐ COOLING OR AIR CONDITIONING 9 ☐ NOT USED

METHOD OF DRILLING

1 ☒ CABLE TOOL 2 ☐ ROTARY (CONVENTIONAL) 3 ☐ ROTARY (REVERSE) 4 ☐ ROTARY (AIR) 5 ☐ AIR PERCUSSION 6 ☐ BORING 7 ☐ DIAMOND 8 ☐ JETTING 9 ☐ DRIVING

CONTRACTOR

NAME OF WELL CONTRACTOR: BILL'S WELL DRILLING — LICENCE NUMBER: 1352

ADDRESS: RR1 FOXBORO

NAME OF DRILLER OR BORER: WILLIAM DONALDSON — LICENCE NUMBER: 1352

SIGNATURE OF CONTRACTOR: William Donaldson — SUBMISSION DATE: DAY 17 MO 4 YR 85

OFFICE USE ONLY

DATA SOURCE — CONTRACTOR: 1352 — DATE RECEIVED: 230585

DATE OF INSPECTION — INSPECTOR

REMARKS

WDE

CSS.ES

MINISTRY OF THE ENVIRONMENT COPY

FORM NO. 0506—4—77 FORM 7

Ministry of the Environment
Ontario

The Ontario Water Resources Act

WATER WELL RECORD

1. PRINT ONLY IN SPACES PROVIDED
2. CHECK ☒ CORRECT BOX WHERE APPLICABLE

11 — 2911016 — MUNICIP 29029 — CON. CON 109

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON	BLOCK, TRACT, SURVEY, ETC	LOT
HASTINGS	THURLOW	9		25

[redacted] RR2 Roslin KOK 2YO

DATE COMPLETED: DAY 16 MO 9 YR 85

MINING — RC. — ELEVATION — RC — BASIN CODE

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	DEPTH - FEET TO
BROWN	TOP SOIL			0	2
GREY	CLAY	BOULDERS		2	6
GREY	GRAVEL			6	10
GREY		SHALE	LIMESTONE	10	12
GREY			LIMESTONE	12	60

31

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
12	1 ☒ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
58	1 ☒ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	DEPTH - FEET TO
6 1/4	1 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	W	0	11
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☒ OPEN HOLE		11	60
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			

SCREEN

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET

MATERIAL AND TYPE — DEPTH TO TOP OF SCREEN FEET

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET FROM	DEPTH SET AT - FEET TO	MATERIAL AND TYPE (CEMENT GROUT LEAD PACKER ETC.)

71 PUMPING TEST

PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
1 ☐ PUMP 2 ☒ BAILER	3 GPM	1 HOURS — MINS

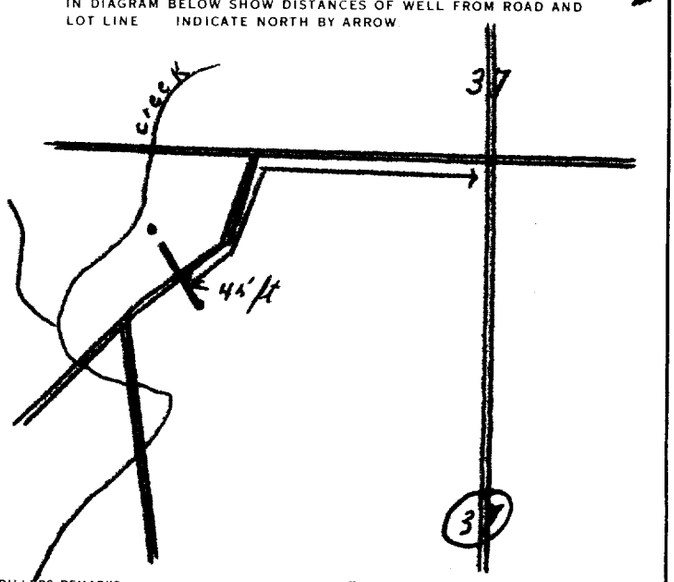
STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
5 FEET	58 FEET	1 ☐ PUMPING 2 ☐ RECOVERY	FEET	FEET	FEET	FEET

IF FLOWING, GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST
GPM	59 FEET	1 ☒ CLEAR 2 ☐ CLOUDY

RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING	RECOMMENDED PUMPING RATE
☐ SHALLOW ☒ DEEP	59 FEET	3 GPM

4006 LOCATION OF WELL

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW



DRILLERS REMARKS

FINAL STATUS OF WELL

1 ☒ WATER SUPPLY 2 ☐ OBSERVATION WELL 3 ☐ TEST HOLE 4 ☐ RECHARGE WELL 5 ☐ ABANDONED, INSUFFICIENT SUPPLY 6 ☐ ABANDONED, POOR QUALITY 7 ☐ UNFINISHED

WATER USE

1 ☒ DOMESTIC 2 ☐ STOCK 3 ☐ IRRIGATION 4 ☐ INDUSTRIAL ☐ OTHER 5 ☐ COMMERCIAL 6 ☐ MUNICIPAL 7 ☐ PUBLIC SUPPLY 8 ☐ COOLING OR AIR CONDITIONING 9 ☐ NOT USED

METHOD OF DRILLING

1 ☒ CABLE TOOL 2 ☐ ROTARY (CONVENTIONAL) 3 ☐ ROTARY (REVERSE) 4 ☐ ROTARY (AIR) 5 ☐ AIR PERCUSSION 6 ☐ BORING 7 ☐ DIAMOND 8 ☐ JETTING 9 ☐ DRIVING

CONTRACTOR

NAME OF WELL CONTRACTOR: BILL'S WELL DRILLING — LICENCE NUMBER: 1352

ADDRESS: RR1 FOXBORO ONT

NAME OF DRILLER OR BORER: WILLIAM DONALDSON — LICENCE NUMBER: 1352

SIGNATURE OF CONTRACTOR: William Donaldson — SUBMISSION DATE: DAY 16 MO 9 YR 85

OFFICE USE ONLY

DATA SOURCE — CONTRACTOR 1352 — DATE RECEIVED 01185

DATE OF INSPECTION — INSPECTOR

REMARKS: CSS.S8

FORM NO. 0506—4—77 FORM 7

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Ministry of the Environment
Ontario

The Ontario Water Resources Act

WATER WELL RECORD

1. PRINT ONLY IN SPACES PROVIDED
2. CHECK ☒ CORRECT BOX WHERE APPLICABLE

2911180

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON., BLOCK, TRACT, SURVEY, ETC.	LOT
HASTINGS	THURLOW	9	26

[redacted] 79 South Foster Ave. Belleville

DATE COMPLETED: DAY 22 MO. 5 YR. 86

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	DEPTH - FEET TO
BROWN	Top Soil			0	1
GREY	CLAY	& Boulders		1	28
GREY			LIMESTONE	28	75

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
30	1 ☒ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
71	1 ☒ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	DEPTH - FEET TO
6 1/4	1 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	.188 U	0	28
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☒ OPEN HOLE		28	75
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			

SCREEN

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET

MATERIAL AND TYPE: | DEPTH TO TOP OF SCREEN FEET:

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET FROM	DEPTH SET AT - FEET TO	MATERIAL AND TYPE (CEMENT GROUT LEAD PACKER, ETC.)

71 PUMPING TEST

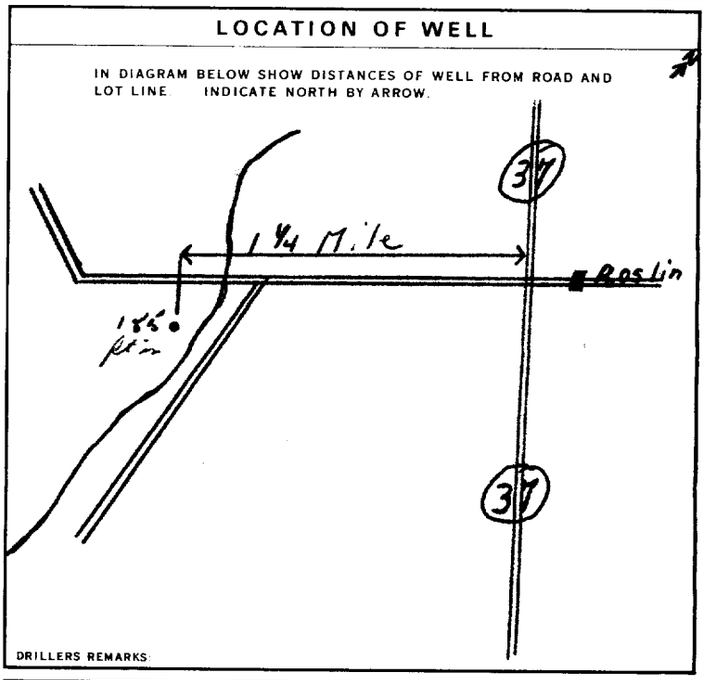
PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
1 ☐ PUMP 2 ☒ BAILER	5 GPM	2 HOURS — MINS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING: 1 ☐ PUMPING 2 ☐ RECOVERY	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
13 FEET	70 FEET		FEET	FEET	FEET	FEET

IF FLOWING, GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST	RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING	RECOMMENDED PUMPING RATE
GPM	73 FEET	1 ☒ CLEAR 2 ☐ CLOUDY	☐ SHALLOW ☒ DEEP	73 FEET	5 GPM

LOCATION OF WELL

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW.



DRILLERS REMARKS:

FINAL STATUS OF WELL
1 ☒ WATER SUPPLY 2 ☐ OBSERVATION WELL 3 ☐ TEST HOLE 4 ☐ RECHARGE WELL 5 ☐ ABANDONED, INSUFFICIENT SUPPLY 6 ☐ ABANDONED, POOR QUALITY 7 ☐ UNFINISHED

WATER USE
1 ☒ DOMESTIC 2 ☐ STOCK 3 ☐ IRRIGATION 4 ☐ INDUSTRIAL ☐ OTHER 5 ☐ COMMERCIAL 6 ☐ MUNICIPAL 7 ☐ PUBLIC SUPPLY 8 ☐ COOLING OR AIR CONDITIONING 9 ☐ NOT USED

METHOD OF DRILLING
1 ☒ CABLE TOOL 2 ☐ ROTARY (CONVENTIONAL) 3 ☐ ROTARY (REVERSE) 4 ☐ ROTARY (AIR) 5 ☐ AIR PERCUSSION 6 ☐ BORING 7 ☐ DIAMOND 8 ☐ JETTING 9 ☐ DRIVING

CONTRACTOR

NAME OF WELL CONTRACTOR	LICENCE NUMBER
BILL'S WELL DRILLING	1352

ADDRESS: RR1 FORBORO ONT

NAME OF DRILLER OR BORER	LICENCE NUMBER
WILLIAM DONALDSON	1352

SIGNATURE OF CONTRACTOR: William Donaldson

SUBMISSION DATE: DAY 22 MO. 5 YR. 86

OFFICE USE ONLY

DATA SOURCE | CONTRACTOR | DATE RECEIVED: 27 06 86

DATE OF INSPECTION | INSPECTOR

REMARKS

CSS.ES

MINISTRY OF THE ENVIRONMENT COPY

FORM NO. 0506—4—77 FORM 7

Ministry of the Environment
Ontario

The Ontario Water Resources Act

WATER WELL RECORD

1. PRINT ONLY IN SPACES PROVIDED
2. CHECK ☒ CORRECT BOX WHERE APPLICABLE

11 — 2911851 — MUNICIP — CON.

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON., BLOCK, TRACT, SURVEY, ETC	LOT
[redacted]	Thurlow	9	27
	R.R.#2 Roslin	DATE COMPLETED DAY 12 MO 3 YR 87	

NG — RC — ELEVATION — RC — BASIN CODE — II — III — IV

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	DEPTH - FEET TO
brown	topsoil		loose	0	3
brown	hardpan	boulders	hard packed	3	14
grey	limestone		hard	14	60
brown	limestone		hard	60	124

31

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
14	1 ☐ FRESH 3 ☐ SULPHUR / 2 ☒ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR / 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR / 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR / 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR / 2 ☐ SALTY 4 ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	DEPTH - FEET TO
6¼	1 ☐ STEEL 2 ☒ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	.188	0	15
6¼	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☒ OPEN HOLE		15	124
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			

SCREEN

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET

MATERIAL AND TYPE	DEPTH TO TOP OF SCREEN FEET

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET FROM	DEPTH SET AT - FEET TO	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)

71 PUMPING TEST

PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
1 ☐ PUMP 2 ☒ BAILER	30 GPM	1 HOURS 15 MINS

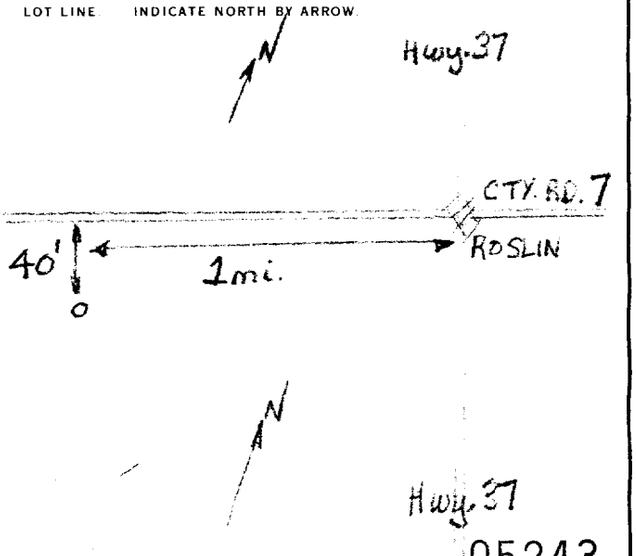
STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
6 FEET	15 FEET	1 ☐ PUMPING 2 ☒ RECOVERY	15 FEET	15 FEET	15 FEET	15 FEET

IF FLOWING, GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST
GPM	FEET	1 ☒ CLEAR 2 ☐ CLOUDY

RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING	RECOMMENDED PUMPING RATE
☐ SHALLOW ☒ DEEP	100 FEET	30 GPM

LOCATION OF WELL

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW.



DRILLERS REMARKS

05243

FINAL STATUS OF WELL

1 ☐ WATER SUPPLY 2 ☒ OBSERVATION WELL 3 ☐ TEST HOLE 4 ☐ RECHARGE WELL 5 ☐ ABANDONED, INSUFFICIENT SUPPLY 6 ☐ ABANDONED, POOR QUALITY 7 ☐ UNFINISHED

WATER USE

1 ☐ DOMESTIC 2 ☒ STOCK 3 ☐ IRRIGATION 4 ☐ INDUSTRIAL ☐ OTHER 5 ☐ COMMERCIAL 6 ☐ MUNICIPAL 7 ☐ PUBLIC SUPPLY 8 ☐ COOLING OR AIR CONDITIONING 9 ☐ NOT USED

METHOD OF DRILLING

1 ☐ CABLE TOOL 2 ☒ ROTARY (CONVENTIONAL) 3 ☐ ROTARY (REVERSE) 4 ☐ ROTARY (AIR) 5 ☐ AIR PERCUSSION 6 ☐ BORING 7 ☐ DIAMOND 8 ☐ JETTING 9 ☐ DRIVING

CONTRACTOR

NAME OF WELL CONTRACTOR	LICENCE NUMBER
CHALK WELL DRILLING LTD.	1507

ADDRESS
R.R.#6 Napanee

NAME OF DRILLER OR BORER	LICENCE NUMBER
Don Davey	T-0025

SIGNATURE OF CONTRACTOR	SUBMISSION DATE
CHALK WELL DRILLING LTD.	DAY 12 MO 3 YR 87

OFFICE USE ONLY

DATA SOURCE — CONTRACTOR — DATE RECEIVED FEB 03 1988

DATE OF INSPECTION — INSPECTOR

REMARKS

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FORM NO. 0506—4—77 FORM 7

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Ontario

The Ontario Water Resources Act

WATER WELL RECORD

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2. CHECK ☒ CORRECT BOX WHERE APPLICABLE

11 — 2911860 — MUNICIP — CON.

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON., BLOCK, TRACT, SURVEY, ETC	LOT
Hastings	Thurlow	IX	Pt.25

[redacted] Roslin, Ontario

DATE COMPLETED: DAY 11 MO 8 YR 87

RC — ELEVATION — RC — BASIN CODE

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	DEPTH - FEET TO
Brown	Clay	Boulders	Packed	0	3
Brown	Shale		Packed	3	6
Brown	Limestone		Hard	6	70

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
10	☐ FRESH ☐ SULPHUR / ☐ SALTY ☐ MINERAL
69	☐ FRESH ☐ SULPHUR / ☐ SALTY ☐ MINERAL
	☐ FRESH ☐ SULPHUR / ☐ SALTY ☐ MINERAL
	☐ FRESH ☐ SULPHUR / ☐ SALTY ☐ MINERAL
	☐ FRESH ☐ SULPHUR / ☐ SALTY ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	DEPTH - FEET TO
6¼	☒ STEEL ☐ GALVANIZED ☐ CONCRETE ☐ OPEN HOLE	.188	0	9
6¼	☐ STEEL ☐ GALVANIZED ☐ CONCRETE ☒ OPEN HOLE		9	70
	☐ STEEL ☐ GALVANIZED ☐ CONCRETE ☐ OPEN HOLE			

SCREEN

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET

MATERIAL AND TYPE — DEPTH TO TOP OF SCREEN FEET

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET FROM	DEPTH SET AT - FEET TO	MATERIAL AND TYPE (CEMENT GROUT LEAD PACKER, ETC.)

71 PUMPING TEST

PUMPING TEST METHOD: ☐ PUMP ☒ BAILER — PUMPING RATE: 1½ GPM — DURATION OF PUMPING: 1 HOURS 0 MINS

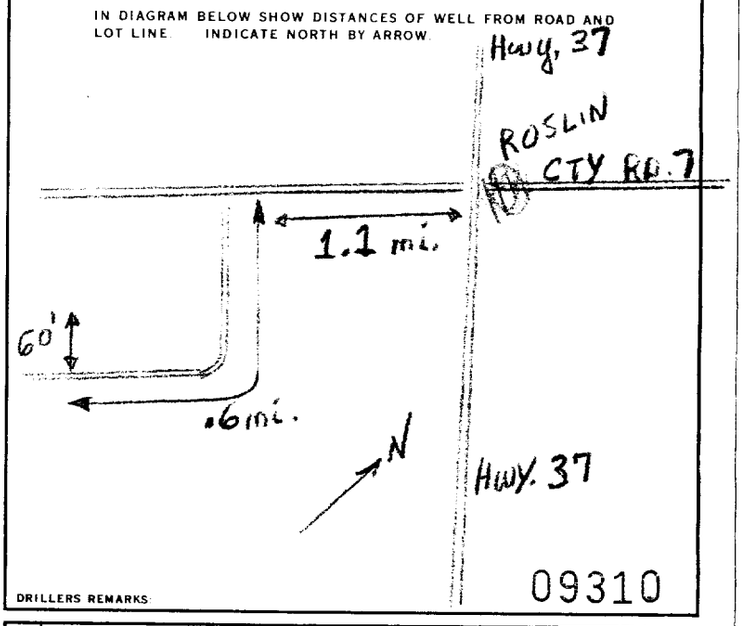
STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING: ☐ PUMPING ☒ RECOVERY	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
6 FEET	70 FEET		53 FEET	36 FEET	21 FEET	12 FEET

IF FLOWING, GIVE RATE — GPM — PUMP INTAKE SET AT — FEET — WATER AT END OF TEST: ☒ CLEAR ☐ CLOUDY

RECOMMENDED PUMP TYPE: ☐ SHALLOW ☒ DEEP — RECOMMENDED PUMP SETTING: 67 FEET — RECOMMENDED PUMPING RATE: 1½ GPM

LOCATION OF WELL

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW.



09310

DRILLERS REMARKS:

54 FINAL STATUS OF WELL

☒ WATER SUPPLY ☐ OBSERVATION WELL ☐ TEST HOLE ☐ RECHARGE WELL ☐ ABANDONED, INSUFFICIENT SUPPLY ☐ ABANDONED, POOR QUALITY ☐ UNFINISHED

55-56 WATER USE

☒ DOMESTIC ☐ STOCK ☐ IRRIGATION ☐ INDUSTRIAL ☐ OTHER ☐ COMMERCIAL ☐ MUNICIPAL ☐ PUBLIC SUPPLY ☐ COOLING OR AIR CONDITIONING ☐ NOT USED

METHOD OF DRILLING

☒ CABLE TOOL ☐ ROTARY (CONVENTIONAL) ☐ ROTARY (REVERSE) ☐ ROTARY (AIR) ☐ AIR PERCUSSION ☐ BORING ☐ DIAMOND ☐ JETTING ☐ DRIVING

CONTRACTOR

NAME OF WELL CONTRACTOR: CHALK WELL DRILLING LTD. — LICENCE NUMBER: 1507

ADDRESS: R. R. # 6, Napanee, Ontario

NAME OF DRILLER OR BORER: Don Davey — LICENCE NUMBER: T-0025

SIGNATURE OF CONTRACTOR: CHALK WELL DRILLING LTD. — SUBMISSION DATE: DAY 11 MO 8 YR 87

OFFICE USE ONLY

DATE RECEIVED: FEB 03 1988

DATE OF INSPECTION — INSPECTED BY — REMARKS

CSS PS

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Ministry of the Environment
Ontario

The Ontario Water Resources Act

WATER WELL RECORD

1. PRINT ONLY IN SPACES PROVIDED
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11 2911861

MUNICIP | CON

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON., BLOCK, TRACT, SURVEY, ETC.	LOT
Hastings	Thurlow	9	Pt. 25

[redacted]

Roslin, Ontario

DATE COMPLETED: DAY 7 MO 8 YR 87

MINING | RC | ELEVATION | RC | BASIN CODE

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	DEPTH - FEET TO
Brown	Clay		Packed	0	4
Grey	Shale		Loose	4	9
Grey	Limestone		Hard	9	73

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
DRY	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	DEPTH - FEET TO
6¼	1 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	.188	0	10
6¼	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☒ OPEN HOLE		10	73
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			

SCREEN

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET

MATERIAL AND TYPE | DEPTH TO TOP OF SCREEN FEET

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET FROM	TO	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)

71 PUMPING TEST

PUMPING TEST METHOD: 1 ☐ PUMP 2 ☐ BAILER

PUMPING RATE: GPM

DURATION OF PUMPING: HOURS MINS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING: 1 ☐ PUMPING 2 ☐ RECOVERY	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
FEET	FEET		FEET	FEET	FEET	FEET

IF FLOWING, GIVE RATE: GPM

PUMP INTAKE SET AT: FEET

WATER AT END OF TEST: 1 ☐ CLEAR 2 ☐ CLOUDY

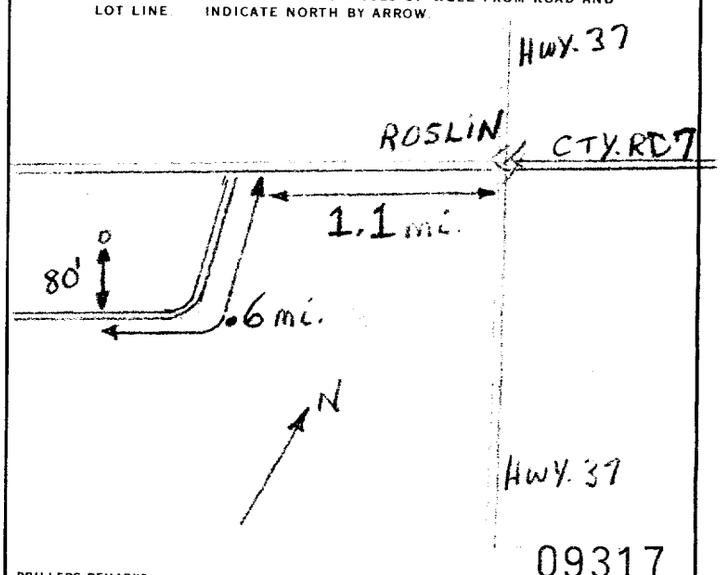
RECOMMENDED PUMP TYPE: ☐ SHALLOW ☐ DEEP

RECOMMENDED PUMP SETTING: FEET

RECOMMENDED PUMPING RATE: GPM

LOCATION OF WELL

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW.



09317

DRILLERS REMARKS:

54 FINAL STATUS OF WELL

1 ☐ WATER SUPPLY 2 ☐ OBSERVATION WELL 3 ☐ TEST HOLE 4 ☐ RECHARGE WELL 5 ☒ ABANDONED, INSUFFICIENT SUPPLY 6 ☐ ABANDONED, POOR QUALITY 7 ☐ UNFINISHED

55 WATER USE

1 ☐ DOMESTIC 2 ☐ STOCK 3 ☐ IRRIGATION 4 ☐ INDUSTRIAL 5 ☐ OTHER 6 ☐ COMMERCIAL 7 ☐ MUNICIPAL 8 ☐ PUBLIC SUPPLY 9 ☐ COOLING OR AIR CONDITIONING 10 ☒ NOT USED

METHOD OF DRILLING

1 ☒ CABLE TOOL 2 ☐ ROTARY (CONVENTIONAL) 3 ☐ ROTARY (REVERSE) 4 ☐ ROTARY (AIR) 5 ☐ AIR PERCUSSION 6 ☐ BORING 7 ☐ DIAMOND 8 ☐ JETTING 9 ☐ DRIVING

CONTRACTOR

NAME OF WELL CONTRACTOR: CHALK WELL DRILLING LTD. | LICENCE NUMBER: 1507

ADDRESS: R. R. # 6, Napanee, Ontario

NAME OF DRILLER OR BORER: Don Davey | LICENCE NUMBER: T-0025

SIGNATURE OF CONTRACTOR: CHALK WELL DRILLING LTD. | SUBMISSION DATE: DAY 7 MO 8 YR 87

FEB 03 1988

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Ministry of the Environment
Ontario

The Ontario Water Resources Act

WATER WELL RECORD

1. PRINT ONLY IN SPACES PROVIDED
2. CHECK ☒ CORRECT BOX WHERE APPLICABLE

11 — 2913095 — MUNICIP 29020 — CON. CON 09

COUNTY OR DISTRICT: HASTINGS
TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: THURLOW
CON., BLOCK, TRACT, SURVEY ETC: CON. 9
LOT: 25
[redacted] PUSLINCH
DATE COMPLETED: DAY 06 MO 09 YR 89
BEARING | RC | ELEVATION | RC | BASIN CODE

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	DEPTH - FEET TO
BROWN	TOPSOIL			0	2
BROWN	CLAY			2	5
GREY	CLAY	GRAUEL		5	7
GREY	LIMESTONE			7	54
3 LOTS					
[redacted]	SOUTH LOT	NORTH EAST SURVEY [redacted] STAKE	30 FT. SOUTH, 41 FT. WEST		
TO THE WELL					

31
32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
6	1 ☒ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	DEPTH - FEET TO
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE 5 ☐ PLASTIC			
	1 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE 5 ☐ PLASTIC			
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE 5 ☐ PLASTIC			

CASING REMOVED

SCREEN

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET
MATERIAL AND TYPE	DEPTH TO TOP OF SCREEN FEET	

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET FROM	DEPTH SET AT - FEET TO	MATERIAL AND TYPE (CEMENT GROUT LEAD PACKER ETC.)
10-13	14-17	
18-21	22-25	
26-29	30-33	

71 PUMPING TEST

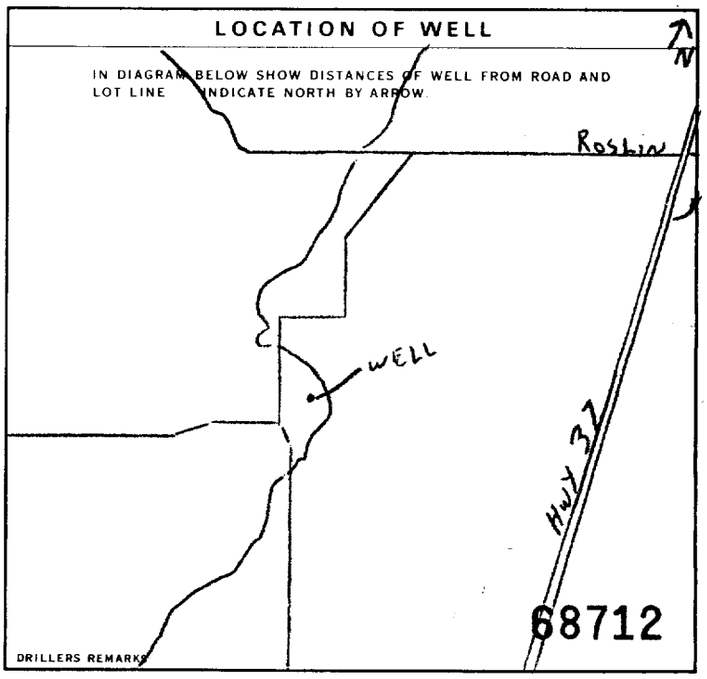
PUMPING TEST METHOD: 1 ☐ PUMP 2 ☐ BAILER
PUMPING RATE: — GPM
DURATION OF PUMPING: — HOURS — MINS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING: 1 ☐ PUMPING 2 ☐ RECOVERY	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
FEET	FEET		FEET	FEET	FEET	FEET

IF FLOWING, GIVE RATE: — GPM
PUMP INTAKE SET AT: — FEET
WATER AT END OF TEST: 1 ☒ CLEAR 2 ☐ CLOUDY
RECOMMENDED PUMP TYPE: ☐ SHALLOW ☐ DEEP
RECOMMENDED PUMP SETTING: — FEET
RECOMMENDED PUMPING RATE: — GPM

LOCATION OF WELL

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW.



68712

DRILLERS REMARKS

FINAL STATUS OF WELL

1 ☐ WATER SUPPLY 2 ☐ OBSERVATION WELL 3 ☐ TEST HOLE 4 ☐ RECHARGE WELL 5 ☒ ABANDONED, INSUFFICIENT SUPPLY 6 ☐ ABANDONED, POOR QUALITY 7 ☐ UNFINISHED ☐ DEWATERING

WATER USE

1 ☐ DOMESTIC 2 ☐ STOCK 3 ☐ IRRIGATION 4 ☐ INDUSTRIAL ☐ OTHER 5 ☐ COMMERCIAL 6 ☐ MUNICIPAL 7 ☐ PUBLIC SUPPLY 8 ☐ COOLING OR AIR CONDITIONING 9 ☒ NOT USED

METHOD OF CONSTRUCTION

1 ☐ CABLE TOOL 2 ☐ ROTARY (CONVENTIONAL) 3 ☐ ROTARY (REVERSE) 4 ☒ ROTARY (AIR) 5 ☒ AIR PERCUSSION 6 ☐ BORING 7 ☐ DIAMOND 8 ☐ JETTING 9 ☐ DRIVING ☐ DIGGING ☐ OTHER

CONTRACTOR

NAME OF WELL CONTRACTOR: MANSE DONALDSON WELL DRILLING
WELL CONTRACTOR'S LICENCE NUMBER: 1805
ADDRESS: RR#5 BELLEVILLE ONT.
NAME OF WELL TECHNICIAN: KEN DONALDSON
WELL TECHNICIAN'S LICENCE NUMBER: T-0019
SIGNATURE OF TECHNICIAN/CONTRACTOR: Ken Donaldson
SUBMISSION DATE: DAY 11 MO 09 YR 89

OFFICE USE ONLY

DATA SOURCE 58 | CONTRACTOR 59-62: 1805 | DATE RECEIVED 63-68: OCT 05 1989
DATE OF INSPECTION | INSPECTOR
REMARKS

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FORM NO. 0506 (11/86) FORM 9

Ministry of the Environment
Ontario

The Ontario Water Resources Act

WATER WELL RECORD

1. PRINT ONLY IN SPACES PROVIDED
2. CHECK ☒ CORRECT BOX WHERE APPLICABLE

11 (1 2) — 2916522 — MUNICIP. 29020 (10 14) — CON. CON I 09 (15 22 23 24)

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON., BLOCK, TRACT, SURVEY, ETC.	LOT (25-27)
Hastings	Thurlow	IX	25

[redacted] R. R. # 2 Roslin, Ontario — DATE COMPLETED (48-53): DAY 11 MO 05 YR 94

(1 2 10 12 17 18 24) RC. (25) ELEVATION (26) RC. (30) BASIN CODE (31) I II III IV (67)

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	DEPTH - FEET TO
Brown	Hardpan	Boulders	Packed	0	11
Grey	Limestone		Hard	11	80

31 (1 2 10 14 15 21 32 43 54 65 75 80)
32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
10-13: DRY	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS (14)
15-18	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS (19)
20-23	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS (24)
25-28	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS (29)
30-33	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS (34) (40)

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	DEPTH - FEET TO
10-11: 9"	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☑ OPEN HOLE 5 ☐ PLASTIC (12)		0	20'6" (13-16)
17-18: 6"	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☑ OPEN HOLE 5 ☐ PLASTIC (19)		20'6"	80 (20-23)
24-25	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE 5 ☐ PLASTIC (26)			(27-30)

SCREEN

SIZE(S) OF OPENING (SLOT NO.) (31-33)	DIAMETER (34-38) INCHES	LENGTH (39-40) FEET
MATERIAL AND TYPE	DEPTH TO TOP OF SCREEN (41-44) FEET	(50)

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET FROM	TO	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)
80 (10-13)	15 (14-17)	Pea Gravel
15 (18-21)	0 (22-25)	Cement
(26-29)	(30-33) (60)	

71 PUMPING TEST

PUMPING TEST METHOD (10): 1 ☐ PUMP 2 ☐ BAILER	PUMPING RATE (11-14): DRY GPM	DURATION OF PUMPING (15-16) HOURS (17-18) MINS

STATIC LEVEL (19-21) FEET	WATER LEVEL END OF PUMPING (22-24) FEET	WATER LEVELS DURING (25): 1 ☐ PUMPING 2 ☐ RECOVERY

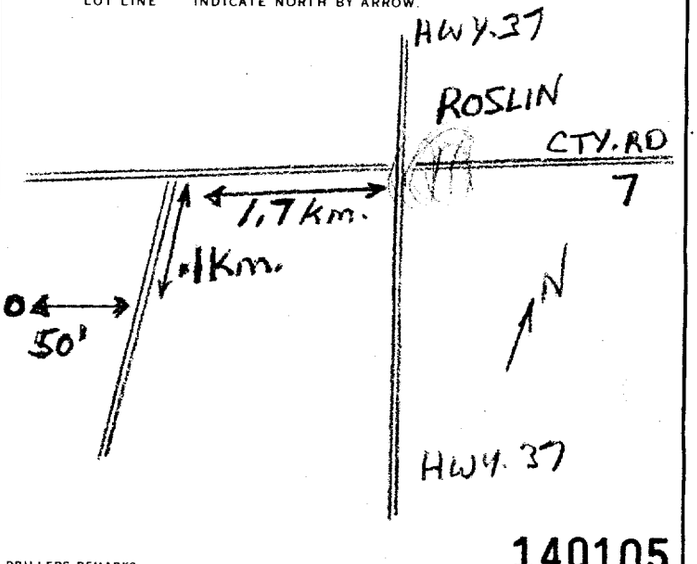
15 MINUTES (26-28) FEET	30 MINUTES (29-31) FEET	45 MINUTES (32-34) FEET	60 MINUTES (35-37) FEET

IF FLOWING, GIVE RATE (38-41) GPM	PUMP INTAKE SET AT FEET	WATER AT END OF TEST (42): 1 ☐ CLEAR 2 ☐ CLOUDY
RECOMMENDED PUMP TYPE: ☐ SHALLOW ☐ DEEP	RECOMMENDED PUMP SETTING (43-45) FEET	RECOMMENDED PUMPING RATE (46-49) GPM

(50-53)

LOCATION OF WELL

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW.



DRILLERS REMARKS: 140105

FINAL STATUS OF WELL (54)

1 ☐ WATER SUPPLY; 2 ☐ OBSERVATION WELL; 3 ☐ TEST HOLE; 4 ☐ RECHARGE WELL; 5 ☑ ABANDONED, INSUFFICIENT SUPPLY; 6 ☐ ABANDONED, POOR QUALITY; 7 ☐ UNFINISHED; ☐ DEWATERING

WATER USE (55-56)

1 ☐ DOMESTIC; 2 ☐ STOCK; 3 ☐ IRRIGATION; 4 ☐ INDUSTRIAL; ☐ OTHER; 5 ☐ COMMERCIAL; 6 ☐ MUNICIPAL; 7 ☐ PUBLIC SUPPLY; 8 ☐ COOLING OR AIR CONDITIONING; 9 ☑ NOT USED

METHOD OF CONSTRUCTION (57)

1 ☑ CABLE TOOL; 2 ☐ ROTARY (CONVENTIONAL); 3 ☐ ROTARY (REVERSE); 4 ☐ ROTARY (AIR); 5 ☐ AIR PERCUSSION; 6 ☐ BORING; 7 ☐ DIAMOND; 8 ☐ JETTING; 9 ☐ DRIVING; ☐ DIGGING; ☐ OTHER

CONTRACTOR

NAME OF WELL CONTRACTOR: CHALK WELL DRILLING LTD.
WELL CONTRACTOR'S LICENCE NUMBER: 1507
ADDRESS: R. R. # 6, Napanee, Ontario
NAME OF WELL TECHNICIAN: K. Chalk
WELL TECHNICIAN'S LICENCE NUMBER: T-0627
SIGNATURE OF TECHNICIAN/CONTRACTOR: CHALK WELL DRILLING LTD.
SUBMISSION DATE: DAY 11 MO 05 YR 94

OFFICE USE ONLY

DATA SOURCE (58) — CONTRACTOR (59-62): 1507 — DATE RECEIVED (63-68): JAN 09 1995 (80)
DATE OF INSPECTION — INSPECTOR
REMARKS
CSS.ES

MINISTRY OF THE ENVIRONMENT COPY

FORM NO. 0506 (11/86) FORM 9

Ontario Ministry of the Environment

The Ontario Water Resources Act
WATER WELL RECORD

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

11

2919737

Municipality 29010 Con. CON 01

County or District	Township/Borough/City/Town/Village	Con block tract survey, etc.	Lot
Hastings	Huntingdon	I	17

Address: R. R. # 2, Roslin, Ont

Date completed: 30 05 02 (day month year)

21 | UTM | Northing | RC | Elevation | RC | Basin Code | ii | iii | iv

LOG OF OVERBURDEN AND BEDROCK MATERIALS (see instructions)

General colour	Most common material	Other materials	General description	Depth - feet From	Depth - feet To
Brown	Hardpan	Small Stone	Hard Packed	0	8
Grey	Limestone		Broken	8	13
Grey	Limestone		Hard	13	48

31

32

41 WATER RECORD

Water found at - feet	Kind of water
40	1 ☐ Fresh 2 ☐ Salty 3 ☐ Sulphur 4 ☐ Minerals 5 ☐ Untested 6 ☐ Gas
	1 ☐ Fresh 2 ☐ Salty 3 ☐ Sulphur 4 ☐ Minerals 6 ☐ Gas
	1 ☐ Fresh 2 ☐ Salty 3 ☐ Sulphur 4 ☐ Minerals 6 ☐ Gas
	1 ☐ Fresh 2 ☐ Salty 3 ☐ Sulphur 4 ☐ Minerals 6 ☐ Gas
	1 ☐ Fresh 2 ☐ Salty 3 ☐ Sulphur 4 ☐ Minerals 6 ☐ Gas

51 CASING & OPEN HOLE RECORD

Inside diam inches	Material	Wall thickness inches	Depth - feet From	Depth - feet To
6¼"	1 ☑ Steel 2 ☐ Galvanized 3 ☐ Concrete 4 ☐ Open hole 5 ☐ Plastic	.188	0	22
6"	1 ☐ Steel 2 ☐ Galvanized 3 ☐ Concrete 4 ☑ Open hole 5 ☐ Plastic		20'6"	48
	1 ☐ Steel 2 ☐ Galvanized 3 ☐ Concrete 4 ☐ Open hole 5 ☐ Plastic			

SCREEN

Sizes of opening (Slot No.)	Diameter inches	Length feet

Material and type | Depth at top of screen feet

61 PLUGGING & SEALING RECORD

☑ Annular space ☐ Abandonment

Depth set at - feet From	Depth set at - feet To	Material and type (Cement grout, bentonite, etc.)
20	0	Cement

71 PUMPING TEST

Pumping test method: 1 ☐ Pump 2 ☑ Bailer

Pumping rate: 6 GPM

Duration of pumping: 1 Hours 0 Mins

Static level	Water level end of pumping	Water levels during: 1 ☐ Pumping 2 ☑ Recovery			
		15 minutes	30 minutes	45 minutes	60 minutes
20 feet	46 feet	23 feet	21 feet	21 feet	21 feet

If flowing give rate: GPM

Pump intake set at: feet

Water at end of test: ☐ Clear ☑ Cloudy

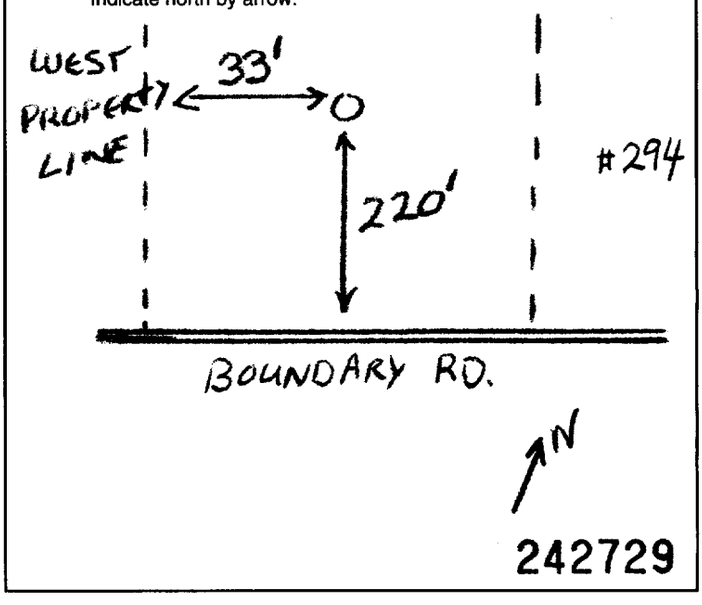
Recommended pump type: ☐ Shallow ☑ Deep

Recommended pump setting: 45 feet

Recommended pump rate: 6 GPM

LOCATION OF WELL

In diagram below show distances of well from road and lot line.
Indicate north by arrow.



242729

FINAL STATUS OF WELL

1 ☑ Water supply 2 ☐ Observation well 3 ☐ Test hole 4 ☐ Recharge well 5 ☐ Abandoned, insufficient supply 6 ☐ Abandoned, poor quality 7 ☐ Abandoned (Other) 8 ☐ Dewatering 9 ☐ Unfinished 10 ☐ Replacement well

WATER USE

1 ☑ Domestic 2 ☐ Stock 3 ☐ Irrigation 4 ☐ Industrial 5 ☐ Commercial 6 ☐ Municipal 7 ☐ Public supply 8 ☐ Cooling & air conditioning 9 ☐ Not use 10 ☐ Other

METHOD OF CONSTRUCTION

1 ☑ Cable tool 2 ☐ Rotary (conventional) 3 ☐ Rotary (reverse) 4 ☐ Rotary (air) 5 ☐ Air percussion 6 ☐ Boring 7 ☐ Diamond 8 ☐ Jetting 9 ☐ Driving 10 ☐ Digging 11 ☐ Other

Name of Well Contractor	Well Contractor's Licence No.
CHALK WELL DRILLING LTD.	1507
Address: R. R. # 6, Napanee, Ontario	
Name of Well Technician: George R. Chalk	Well Technician's Licence No.: T-0024
Signature of Technician/Contractor: CHALK WELL DRILLING LTD.	Submission date: 30 05 02 (day mo yr)

MINISTRY USE ONLY

Data source	Contractor	Date received
	1507	JAN 16 2003
Date of inspection	Inspector	
Remarks		

CSS.ES3

2 - MINISTRY OF THE ENVIRONMENT COPY

Ontario

Ministry of the Environment and Climate Change

Measurements recorded in: ☒ Metric ☐ Imperial

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

Tag#: A247118

Well Record

Regulation 903 Ontario Water Resources Act

Page _____ of _____

Well Owner's Information

First Name	Last Name / Organization	E-mail Address	☐ Well Constructed by Well Owner
	Hilden Homes Ltd.		

Mailing Address (Street Number/Name)	Municipality	Province	Postal Code	Telephone No. *(inc. area code)*
393 Sidney Street	Belleville	ON	K8P3Z9	6139624600

Well Location

Address of Well Location (Street Number/Name)	Township	Lot	Concession
622 Foxton Road	Thurlow	Part lot 26	9

County/District/Municipality	City/Town/Village	Province	Postal Code
Hastings	Roslin	Ontario	K0K2Y0

UTM Coordinates Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 83 18	286311	4882889	Part 1 Plan 21R2664	

Overburden and Bedrock Materials/Abandonment Sealing Record *(see instructions on the back of this form)*

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	Depth (m/ft) To
	Property grade was changed. Added 96" of well casing to accomodate for this change and affixed M.O.E. Well tag.				

Annular Space

Depth Set at (m/ft) From	Depth Set at (m/ft) To	Type of Sealant Used *(Material and Type)*	Volume Placed *(m³/ft³)*

Method of Construction

☐ Cable Tool ☐ Diamond ☐ Rotary (Conventional) ☐ Jetting ☐ Rotary (Reverse) ☐ Driving ☐ Boring ☐ Digging ☐ Air percussion ☐ Other, *specify* _____

Well Use

☐ Public ☐ Commercial ☐ Not used ☐ Domestic ☐ Municipal ☐ Dewatering ☐ Livestock ☐ Test Hole ☐ Monitoring ☐ Irrigation ☐ Cooling & Air Conditioning ☐ Industrial ☐ Other, *specify* _____

Construction Record - Casing

Inside Diameter *(cm/in)*	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness *(cm/in)*	Depth (m/ft) From	Depth (m/ft) To

Construction Record - Screen

Outside Diameter *(cm/in)*	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From	Depth (m/ft) To

Status of Well

☐ Water Supply ☐ Replacement Well ☐ Test Hole ☐ Recharge Well ☐ Dewatering Well ☐ Observation and/or Monitoring Hole ☐ Alteration (Construction) ☐ Abandoned, Insufficient Supply ☐ Abandoned, Poor Water Quality ☐ Abandoned, other, *specify* _____ ☐ Other, *specify* _____

Water Details

Water found at Depth (m/ft)	Kind of Water	Hole Diameter Depth (m/ft) From	Hole Diameter Depth (m/ft) To	Hole Diameter (cm/in)
☐ Gas	☐ Fresh ☐ Untested ☐ Other, *specify*			
☐ Gas	☐ Fresh ☐ Untested ☐ Other, *specify*			
☐ Gas	☐ Fresh ☐ Untested ☐ Other, *specify*			

Results of Well Yield Testing

After test of well yield, water was: ☐ Clear and sand free ☐ Other, *specify* _____

If pumping discontinued, give reason:

Pump intake set at *(m/ft)*

Pumping rate *(l/min / GPM)*

Duration of pumping _____ hrs + _____ min

Final water level end of pumping *(m/ft)*

If flowing give rate *(l/min / GPM)*

Recommended pump depth *(m/ft)*

Recommended pump rate *(l/min / GPM)*

Well production *(l/min / GPM)*

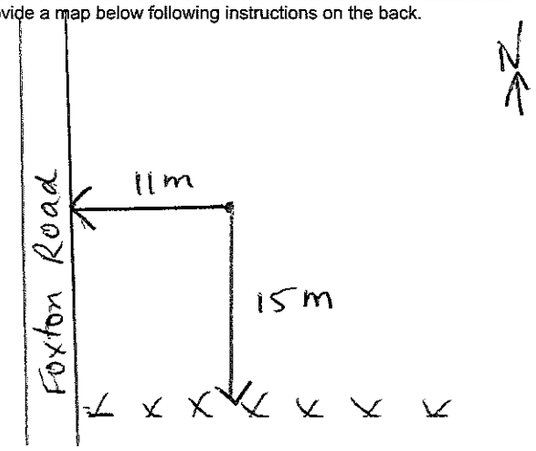
Disinfected? ☒ Yes ☐ No

	Draw Down Time (min)	Draw Down Water Level (m/ft)	Recovery Time (min)	Recovery Water Level (m/ft)
Static Level				
1			1	
2			2	
3			3	
4			4	
5			5	
10			10	
15			15	
20			20	
25			25	
30			30	
40			40	
50			50	
60			60	

Not required

Map of Well Location

Please provide a map below following instructions on the back.



Comments: Well Depth 19.31 m. Static Level 4.43 m.

Well Contractor and Well Technician Information

Business Name of Well Contractor	Well Contractor's Licence No.
Well Busters Canada Inc.	7329

Business Address (Street Number/Name)	Municipality	Province	Postal Code	Business E-mail Address
673 Wallbridge Loyalist Rd	Belleville	ON	K8N4Z5	info@wellbusters.com

Bus. Telephone No. *(inc. area code)*	Name of Well Technician (Last Name, First Name)	Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted
6139681474	Hitchon Stewart	10411		2018 11 23

Well owner's information package delivered	Date Package Delivered	Date Work Completed
☐ Yes ☒ No		2018 11 23

Ministry Use Only

Audit No. Z293865

Received DEC 03 2018

Appendix B

Laboratory Certificates of Analysis

CADUCEON ENVIRONMENTAL LABORATORIES
Client committed. Quality assured. Canadian owned.

CERTIFICATE OF ANALYSIS

Final Report

C.O.C.: Foxton **REPORT No: 24-004566 - Rev. 0**

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

CADUCEON Environmental Laboratories
285 Dalton Ave
Kingston, ON K7K 6Z1

Attention: Kirby Magee-Dittburner

DATE RECEIVED: 2024-Feb-16
DATE REPORTED: 2024-Feb-26
SAMPLE MATRIX: Ground Water

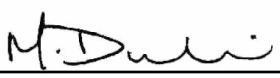
CUSTOMER PROJECT: Foxton Road
P.O. NUMBER: PO#2338574

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/ALK-02	SM 2510B/4500H/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 *

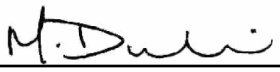
Michelle Dubien
Data Specialist

Parameter	Units	R.L.	Client I.D.: TW Sample I.D.: 24-004566-1 Date Collected: 2024-02-15 -
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

Parameter	Units	R.L.	Client I.D.: TW Sample I.D.: 24-004566-1 Date Collected: 2024-02-15 -
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

CADUCEON ENVIRONMENTAL LABORATORIES
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CERTIFICATE OF ANALYSIS

Final Report

C.O.C.: Foxton **REPORT No: 24-008073 - Rev. 0**

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

CADUCEON Environmental Laboratories
285 Dalton Ave
Kingston, ON K7K 6Z1

Attention: Kirby Magee-Dittburner

DATE RECEIVED: 2024-Mar-26
DATE REPORTED: 2024-Mar-28
SAMPLE MATRIX: Ground Water

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

Analyses	Qty	Site Analyzed	Authorized	Date Analyzed	Lab Method	Reference Method
Coliforms - DC Media (Liquid)	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

CADUCEON ENVIRONMENTAL LABORATORIES
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CERTIFICATE OF ANALYSIS

Final Report

C.O.C.: Foxton

REPORT No: 24-007045 - Rev. 0

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

CADUCEON Environmental Laboratories
285 Dalton Ave
Kingston, ON K7K 6Z1

Attention: Kirby Magee-Dittburner

DATE RECEIVED: 2024-Mar-14
DATE REPORTED: 2024-Mar-18
SAMPLE MATRIX: Ground Water

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

Analyses	Qty	Site Analyzed	Authorized	Date Analyzed	Lab Method	Reference Method
Coliforms - DC Media (Liquid)	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 *

		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

Brandon Burtch
Microbiology Supervisor