

Staveley Farm Severance

Scoped Hydrogeology Study

82 Eatonville Road

September 12, 2025

Project # 25-6112A





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Author and Review Panel

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1 Introduction

Greer Galloway, a division of Jp2g Consultants Inc. (Jp2g) was retained by Mr. Keith Watson to complete a Scoped Hydrogeology Study supporting the proposed single-lot severance on Eatonville Road, part of Lot 78, Concession 2, in the Township of Ameliasburgh, Ontario. Mr. Watson's home is located on the proposed severance.

The purpose of the work was to assess the soil and groundwater conditions at the site to determine if the dwelling on the proposed severance property is adequately supported by the existing well in accordance with Provincial standards, and if the reduced lot size of the severed property will allow for adequate nitrate dilution at the property boundary.

2 Investigation Methods

The assessment was carried out in general accordance with the Ministry of the Environment, Conservation, and Parks (MECP) procedures D-5-4 (Individual On-Site Sewage Systems) and D-5-5 (Private Well: Well Assessment).

The investigation included a review of water well records, a review of available geologic and hydrogeologic information for the area, a two-week monitoring period of the existing well located on the proposed severance property, and chemical and bacteriological analysis. The investigation methods are described further in the following subsections.

2.1 Well Records Review

Information about nearby wells was obtained from available MECP water well records on the MECP wells database using a search radius of 300 m from the subject property. MECP Water Well Record sheets for the searched area are provided in Appendix A.

2.2 Water Supply Assessment

The water supply assessment was based on a passive yield test of the existing dug well (Tag ID # A143975) located at the southwestern corner of the proposed severance, approximately 80 m south of the existing dwelling on the property.

The well is a 0.9 m diameter dug well with a measured depth of 6.86 m below ground surface (bgs), a measured stick-up height of 0.64 m, and a measured static water level of 3.24 m bgs on May 27, 2025. We note that the well record for this well indicates a driller-reported depth of 8.2 m, which is inconsistent with our measured 6.86 m, though the well tag matches the ID on the well record. One possible explanation for the inconsistency is that clearstone was added after excavation, though this is speculation.

A data-logging pressure transducer (Solinst Model 3001) was installed in the tested well. The datalogger was set to record at one-minute intervals, and recorded readings for two weeks. The hydrograph is provided in Appendix B.

2.3 Water Quality Assessment

A grab sample of the raw groundwater was collected immediately prior to installing the data-logger. The sample was placed into a variety of laboratory-prepared sample containers that were sealed, placed into a cooler with ice packs to maintain a temperature of approximately 4 °C, and transported to Caduceon Laboratories in Kingston, Ontario. Analytical parameters included *E. coli* and Total Coliform bacteria and a variety of additional



parameters including Alkalinity, pH, Conductivity, Colour, Turbidity, Fluoride, Chloride, Nitrite and Nitrate, Sulphate, TKN, Ammonia, Organic Nitrogen, DOC, Hardness, Calcium, Iron, Magnesium, Manganese, Potassium, Silica, Sodium, and Zinc (refer to the Laboratory Certificate of Analysis in Appendix C).

3 Summarized Findings

3.1 Site Description

The subject property covers an area of approximately 28.5 ha. The client wishes to sever a parcel of approximately 1.2 ha on the part of the land currently occupied by the client's home dwelling. The property is primarily active agricultural land, though the area corresponding to the proposed severance is covered by manicured grass and mature trees. Local land use is Agricultural. Maps of the property and its surroundings are provided in Drawings 1 and 2 (appended after text).

Topography within the proposed severance is slightly raised at the location of the existing dwelling, sloping downward away from the house in both northern and southern directions. The ground surface elevation near the house is approximately 86 metres above sea level (mASL); the elevation is approximately 82 mASL at the northern edge and approximately 80 mASL at the southern edge.

The only notable surface water body in the area is a creek running northeast to southwest that forms the northern boundary of the retained lands. This creek is located approximately 330 m from the proposed severance property. Municipal servicing is not available in the area, so drinking water and sewage servicing must be handled by individual water supply wells and septic systems.

3.2 Climate and Water Balance

The area is characterized by cool winters and relatively warm humid summers. Snow typically occurs during 5 months of the year from December to April. Annual precipitation is 948 mm at the Mountainview weather station (Environment Canada, 2020) with an average annual evapotranspiration (ET) of roughly 500 mm based on the site location (Statistics Canada, 2017).

Mapping shows primarily surficial soils classified as silty sand to sand-textured till on Precambrian terrain in the Surficial Geology of Southern Ontario (OGS, 2011). Infiltration factors for the area were calculated as per the Ontario Ministry of the Environment 1995 Hydrogeological Technical Information Requirements for Land Development Applications.

It is based on three sub-factors which are:

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

Table 1 presents infiltration factors based on the details of the ground cover factors for the subject property under current conditions.



Table 1: Estimated infiltration factors

Site Characteristics	Infiltration Factor
<u>Topography</u>	
Flat Land	0.3
Rolling Land	0.2
Hilly Land	0.1
<u>Soils</u>	
Tight Impervious Clay	0.1
Medium Combinations of Clay and Loam	0.2
Open Sandy Loam	0.4
<u>Cover</u>	
Cultivated Land	0.1
Woodland	0.2
Sum of Infiltration Factors	0.5

Given an average annual moisture surplus (P-ET) of approximately 448 mm, we estimate an average annual infiltration of 224 mm for the subject property.

3.3 Geology

The Ontario Soil Report No.10 classifies soils in this area as Elmbrook clay loam. This soil type is described as brown to grey silty clay loam with few stones. A horizon soils are stone-free, slightly acidic, and have a crumb or nuciform texture. B and C horizon soils have a blocky or massive texture, are somewhat alkaline, are calcareous, and have a grey-brown or mottled appearance. The MECP Water Well Record for A143975 describes the overburden as “clay”.

The Ontario Geological Survey (2011) has described the bedrock as interbedded limestone and shale belonging to the Verulam Formation of the Simcoe Group.

3.4 Hydrogeology

A search of the Ministry of Environment, Conservation and Parks (MECP) Well Record Database returned 6 well records within a 500 m radius of the proposed severance (see Drawing 2, appended). Of these 6 records, one was a record of decommissioning; the remaining records are summarized in Table 2.

The records indicate that bedrock in the area is encountered between 6.9 m to 15.2 m bgs, with a median depth to bedrock of 9.1 m bgs. The median driller-reported well yield is 9.1 L/min. Subject lands are located outside any mapped WHPA.



Table 2: Summary of MECP well records

Well Number	Water Found (m)	Static Level (m)	Yield (L/min)	Overburden Depth (m)	Hole Depth (m)	Water Type	Aquifer
A143975 (TW)	3.5	2.1	90+	>8.2	8.2	Fresh	Overburden
5303961	13.7	1.8	9.1	13.7	23.8	Fresh	Bedrock
5303986	9.8	3.0	23.2	9.1	9.8	Fresh	Bedrock
5306439	25.9	2.5	9.1	15.2	33.2	Fresh	Bedrock
5306773	8.2, 25.0	2.4	Low	6.9	25.9	Untested	Bedrock

Based on the recorded static levels and the topographic setting, the dominant regional groundwater flow direction is towards the creek at the northern edge of the subject property.

3.5 Water Availability

Well A143975 was monitored for a period of two weeks (14 days) during normal in-home water usage. The static water level at the time of the installation of our logger was 3.24 m bgs. The hydrograph for this monitoring is included in Appendix B.

Over the course of the monitoring period, water was pumped from the well a total of four times to refill the reservoir and pressure tank inside the house. Pumping durations were all between 20-25 minutes, and the intervals between the takings indicate that enough water was taken to supply the house for over two days each time.

Each time the pump refilled the pressure tank, the well was drawn down by an average of 0.5 m and recovered fully after about 36 hours. The lowest recorded water level (when the pump turned off on day 6 of monitoring) was 3.70 m bgs, leaving an additional 3.16 m of available water column in the well.

Based on the well's depth and its observed response to typical in-home water usage, we conclude that the well can support the proposed severance. The well is expected to provide adequate water for normal residential use during the dryer summer months. We note that this monitoring was conducted during an unseasonably dry period that is considered representative of an unusually dry summer.

3.6 Water Quality

A groundwater sample was collected from well A143975 at the beginning of the monitoring period. The samples were analyzed for parameters outlined under MECP Guideline D-5-5 at Caduceon Laboratories in Kingston, Ontario. Key results are summarized in Table 3, with exceedances being formatted in bold. The full results of this testing are included with the Laboratory Certificates of Analysis in Appendix C.

Table 3: Summary of key analytical results

Parameter	Units	RL	A143975 (Aug 28, 2025)	MECP D-5-5
Bacteriological Parameters				
Total Coliform	cfu/100mL	1	1	0 (5)
E coli	cfu/100mL	1	0	0
Background	cfu/100mL	1	>200	N/A



Physical/Chemical parameters with Health-related Criteria

Turbidity (Laboratory)	NTU	0.1	0.7	5
Nitrite (N)	mg/L	0.1	<0.05	1
Nitrate (N)	mg/L	0.1	<0.05	10
Fluoride	mg/L	0.1	0.1	2.4

Physical/Chemical parameters with Aesthetic Criteria/Operational Guidelines

Alkalinity (as CaCO ₃)	mg/L	5	295	500 ^{OG}
pH @25°C	pH Units	-	7.99	6.5 – 8.5 ^{OG}
Colour	TCU	2	<2	5 ^{OG}
Chloride	mg/L	0.5	23.4	250 ^{AO}
Sulphate	mg/L	1	83	500 ^{AO}
Dissolved Organic Carbon	mg/L	0.2	4.1	5 ^{AO}
Sulphide	mg/L	0.01	<0.01	0.05 ^{AO}
Hardness (as CaCO ₃)	mg/L	1	367	100 ^{OG}
Iron	mg/L	0.005	0.008	0.3 ^{AO}
Magnesium	mg/L	0.02	42.6	-
Manganese	mg/L	0.001	0.002	0.05 ^{AO}
Sodium	mg/L	0.2	14.6	200 ^{AO}
Lead	mg/L	0.00002	0.00002	-

The sample taken from well A143975 was found to meet all D-5-5 criteria. The water is moderately hard as is typical for groundwater in the County.

3.7 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:

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

For an annual infiltration value of 250 mm and a 4-bedroom house with an occupancy of 5 persons, this calculation yields a radius of influence of 32 m based on a shallow dug well pumping at a rate of 2,250 L/day (5 people x 450 L/day) over the course of a year for A143975.

Drawdown during regular use was found to be modest, with ample available water column remaining, and the nearest well is about 250 m away. Interference is not expected to be a problem for the proposed severance. As an existing water taking, well interference (if any) would not be governed by MECP Guideline D-5-5.

3.8 Onsite Sewage Treatment

The area of the proposed severance is greater than 1 ha, and as such, the risk of contamination of neighbouring properties via nitrate-rich sewage effluent is considered to be low under MECP Guideline D-5-4.

Despite not being required, the predicted concentration at the property boundary can be calculated using the following formula:



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

Where:

- C_T = Nitrate concentration at property boundary (mg/L as N)
- Q_O = Sewage Effluent Volume (L/day)
- C_O = Nitrate concentration of sewage effluent (mg/L as N)
- C_{bk} = Nitrate concentration in background groundwater (mg/L as N)
- Q_R = Groundwater recharge or precipitation infiltration (L/day)
- C_R = Nitrate concentration of groundwater recharge (mg/L as N)

These parameters are discussed as follows:

Q_O – A daily flow of 1 m³/day (1,000 L/day) has been assumed for a typical 3-4 bedroom residential dwelling.

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

C_{bk} – No nitrate was detected in the water quality sample taken from the tested well, so a background concentration of 0.0 mg/L has been assumed.

Q_R – An annual groundwater recharge rate of 250 mm, recommended in Chapter 22 of the 2008 Design Guidelines for Sewage Works (MECP, 2008), and an area of 1.2 ha yields a groundwater recharge of 8,220 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 values yield the following predicted nitrate concentration:

$$C_T = \frac{(1,000 L \times 40 mg/L) + (1,000 L \times 0.0 mg/L) + (8,220 L \times 0 mg/L)}{8,220 + 1,000 L} = 4.3 mg/L$$

The predicted nitrate concentration is below the 10 mg/L limit outlined in MECP Guideline D-5-4.

4 Summary

The purpose of the work was to assess the soil and groundwater conditions at the site to determine if the dwelling on the proposed severance property is adequately supported by the existing well in accordance with Provincial standards, and if the reduced lot size of the severed property will allow for adequate nitrate dilution at the new property boundary

Our assessment found the following:

1. Our monitoring of the existing well (A143975) during two weeks of regular usage showed that the well has sufficient yield and storage to support the proposed severance. The well is deep enough to ensure water availability for normal residential needs during dry summer months.
2. Based on our calculations and the proximity of the nearest wells, well interference is not anticipated for the proposed severance. Water usage is not expected to change as a result of the proposed severance.



3. Water quality results from the sample taken at the start of the monitoring period showed generally good water quality. Ultraviolet sterilization is still recommended as a minimum for in-home water treatment at the discretion of the homeowner.
4. The proposed severance has an area greater than 1 ha, so the risk of contaminating neighbouring water supplies with nitrate-rich sewage effluent is considered low under MECP Guideline D-5-4.



5 References

Environment and Climate Change Canada 2025: Historical Climate Data - Mountain View (Prince Edward), Ontario.

MECP (Ministry of Environment Conservation and Parks) 1996: D-5-5 Private Wells: Water Supply Assessment, updated March 15, 2016.

MECP (Ministry of Environment Conservation and Parks) 1996: D-5-4 Individual On-Site Sewage Systems: Water Quality Impact Risk Assessment, updated April 14, 2016.

MECP (Ministry of Environment Conservation and Parks) 2008: Design Guidelines for Sewage Works, updated September 4, 2024.

Ontario Geological Survey 2011. Bedrock geology of Southern Ontario; Ontario Geological Survey, Miscellaneous Release--Data 126-REV

Ontario Geological Survey 2011. Surficial geology of Southern Ontario; Ontario Geological Survey, Miscellaneous Release--Data 128-REV

Ontario Agricultural College, 1962: Soil Survey of Prince Edward County. Report No. 10 of the Ontario Soil Survey, Scale 1:63 360.

End of report.



GREER GALLOWAY
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BELLEVILLE, ONTARIO, K8N 4Z5
PHONE: 613-966-3068
FAX: 613-966-3087

NOTES:

- 1) Base drawing and information obtained from Google Earth.

LEGEND:

- Property Location



PROJECT 25-6112A:

SCOPED HYDROGEOLOGY STUDY
82 EATONVILLE ROAD
AMELIASBURGH, ON

DRAWING 1:

SITE PLAN SHOWING PROPERTY LOCATION



GREER GALLOWAY
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KINGSTON
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FAX: 613-966-3087

NOTES:

- 1) Base drawing and information obtained from Google Earth.
- 2) Locations and property boundaries are approximate.

LEGEND:

- Proposed Severance
- Retained Lands
- Test Well Location
- ⊙ MECP Well Record



PROJECT 25-6112A:

SCOPED HYDROGEOLOGY STUDY
82 EATONVILLE ROAD
AMELIASBURGH, ON

DRAWING 2:

SITE PLAN SHOWING WELL LOCATION



Appendix A: MECP Water Well Records



Ministry of the Environment

Measurements recorded in: Metric Imperial

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

A143975

Well Record

Regulation 903 Ontario Water Resources Act

Page _____ of _____

Address of Well Location (Street Number/Name) **82 Eatonville Road RR#1** Township **Ameliasburgh** Lot **78** Concession **2**
 County/District/Municipality **Prince Edward County** City/Town/Village **Rednersville (south of)** Province **Ontario** Postal Code **K18N1421**
 UTM Coordinates Zone **18** Easting **304927** Northing **4884452** Municipal Plan and Sublot Number

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)
Brown	Clay	Stones		From 0 To 8.2

Annular Space		Volume Placed (m ³ /ft ³)
Depth Set at (m/ft) From 0 To 2.5	Type of Sealant Used (Material and Type) Clay	20

Method of Construction	Well Use	Status of Well
<input type="checkbox"/> Cable Tool <input type="checkbox"/> Rotary (Conventional) <input type="checkbox"/> Rotary (Reverse) <input type="checkbox"/> Boring <input type="checkbox"/> Air percussion <input type="checkbox"/> Other, specify	<input type="checkbox"/> Public <input checked="" type="checkbox"/> Domestic <input type="checkbox"/> Livestock <input type="checkbox"/> Irrigation <input type="checkbox"/> Industrial <input type="checkbox"/> Other, specify	<input type="checkbox"/> Not used <input type="checkbox"/> Dewatering <input type="checkbox"/> Monitoring <input type="checkbox"/> Cooling & Air Conditioning

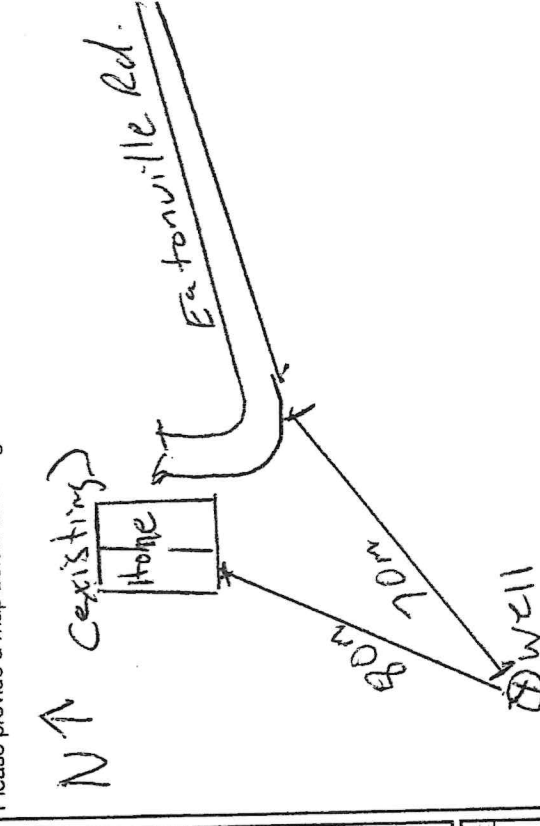
Construction Record - Casing		Construction Record - Screen	
Inside Diameter (cm/in) 90	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel) Concrete	Wall Thickness (cm/in) 3	Depth (m/ft) From 0 To 8.2
Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From To

Water Details		Hole Diameter	
Water found at Depth (m/ft) 3.5	Kind of Water: <input checked="" type="checkbox"/> Fresh <input type="checkbox"/> Other, specify	Depth (m/ft) From To	Diameter (cm/in)
Water found at Depth (m/ft)	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Other, specify		
Water found at Depth (m/ft)	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Other, specify		

Well Contractor and Well Technician Information
 Business Name of Well Contractor **Franks Drilling & Blasting Ltd.** Well Contractor's Licence No. **078811**
 Business Address (Street Number/Name) **Box 100** Municipality **Newburgh**
 Province **Ontario** Postal Code **K0K2S0** Business E-mail Address **info@fabi.com**
 Bus. Telephone No. (inc. area code) **6133782178** Name of Well Technician (Last Name, First Name) **Paul**
 Well Technician's Licence No. **2603** Signature of Well Contractor **[Signature]** Date Submitted **2015 01 18**

Results of Well Yield Testing			
After test of well yield, water was:	Draw Down	Recovery	
<input type="checkbox"/> Clear and sand free <input type="checkbox"/> Other, specify	Time (min)	Water Level (m/ft)	Time (min)
If pumping discontinued, give reason: Pump intake set at (m/ft) 8.2 Pumping rate (l/min / GPM) 585 Duration of pumping hrs + 30 min Final water level end of pumping (m/ft) 4.2 If flowing give rate (l/min / GPM) Recommended pump depth (m/ft) Recommended pump rate (l/min / GPM) Well production (l/min / GPM) Disinfected? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Static Level	2.1	4.2
	1		1
	2	DUG	2
	3		3
	4	RESERVE	
	5	8865	GALS
10		10	
15	RECOVERY		
20	20T	20	GPM
25		25	
30	4.2	30	
40		40	
50		50	
60	2.1	60	3.3

Map of Well Location
Please provide a map below following instructions on the back.



Comments:
 Well owner's information package delivered Yes No
 Date Package Delivered **2014 12 09**
 Date Work Completed **2014 12 09**
 Ministry Use Only
 Audit No. **Z194693**
FEB 09 2015

31c/30d

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

COUNTY OR DISTRICT: **Prince Edward** TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: **Ameliasburgh**

MUNICIPALITY: **5303961** CON. BLOCK, TRACT, SURVEY, ETC.: **2**

DATE COMPLETED: DAY **09** MO. **05** YEAR **80**

LOT: **077**

GENERAL COLOUR: **B.R.1 Belleville**

ELEVATION: **845.42** NORTH CODE: **24**

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET
				FROM TO
	Clay			0 44
	Gravel			44 45
	Limestone			45 78

WATER FOUND AT - FEET	KIND OF WATER	10-15	16-21	22-27	28-33	34-39	40-45	46-51	52-57	58-63	64-69	70-75	76-81	82-87	88-93	94-99	100-105
0045	FRESH 3 <input checked="" type="checkbox"/> SULPHUR 14 SALTY 4 <input type="checkbox"/> MINERAL 19																
	FRESH 3 <input type="checkbox"/> SULPHUR 24 SALTY 4 <input type="checkbox"/> MINERAL 29																
	FRESH 3 <input type="checkbox"/> SULPHUR 29 SALTY 4 <input type="checkbox"/> MINERAL 34																
	FRESH 3 <input type="checkbox"/> SULPHUR 34 SALTY 4 <input type="checkbox"/> MINERAL 39																

WATER RECORD	10	15-16	17-18
PUMPING TEST METHOD: 1 PUMP 2 BAILER	0002	01	00
STATIC WATER LEVEL PUMPING: 19-21	006	074	040
IF FLOWING: GIVE RATE			
RECOMMENDED PUMP TYPE: <input type="checkbox"/> SHALLOW <input checked="" type="checkbox"/> DEEP	075	036	033
RECOMMENDED PUMPING RATE: FEET/45-49	075	036	033
SETTING: FEET/45-49	075	036	033

WATER RECORD	10-11	12	13-16
INSIDE DIAMETER INCHES: 6.4	6.4	6.4	6.4
WALL THICKNESS INCHES: 0.6	0.6	0.6	0.6
MATERIAL: 1 STEEL 2 GALVANIZED 3 CONCRETE 4 OPEN HOLE	1 STEEL	2 GALVANIZED	3 CONCRETE
DEPTH - FEET: FROM TO	17-18 TO 24-25	25-26 TO 26-27	27-28 TO 28-29

WATER RECORD	10	15-16	17-18
PUMPING TEST METHOD: 1 PUMP 2 BAILER	0002	01	00
STATIC WATER LEVEL PUMPING: 19-21	006	074	040
IF FLOWING: GIVE RATE			
RECOMMENDED PUMP TYPE: <input type="checkbox"/> SHALLOW <input checked="" type="checkbox"/> DEEP	075	036	033
RECOMMENDED PUMPING RATE: FEET/45-49	075	036	033
SETTING: FEET/45-49	075	036	033

PLUGGING & SEALING RECORD	10-13	14-17	18-21	22-25	26-29	30-33	34-37	38-41	42-45
DEPTH SET AT - FEET FROM TO									
MATERIAL AND TYPE									
(CEMENT GROUT LEAD PACKER ETC.)									

71 PUMPING TEST

STATIC WATER LEVEL PUMPING: 19-21 **006** 22-24 **074** 25-28 **047** 29-31 **040** 32-34 **036** 35-37 **033**

IF FLOWING: GIVE RATE

RECOMMENDED PUMP TYPE: SHALLOW DEEP

RECOMMENDED PUMPING RATE: FEET/45-49 **075**

SETTING: FEET/45-49 **075**

WATER INTAKE SET AT: FEET **036** WATER AT END OF TEST: FEET **42**

DURATION OF PUMPING: 11-14 HOURS **01** 15-16 HOURS **00** 17-18 HOURS **00**

1 CLEAR 2 CLOUDY

3 PUMPING 4 RECOVERY

5 45 MINUTES 6 30-34 FEET 7 60 MINUTES 8 35-37 FEET

FINAL STATUS OF WELL: **1** WATER SUPPLY 5 ABANDONED, INSUFFICIENT SUPPLY 9 OBSERVATION WELL 6 ABANDONED, POOR QUALITY 10 TEST HOLE 7 UNFINISHED 11 RECHARGE WELL

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

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

LOCATION OF WELL

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

DRILLERS REMARKS: **ROBLIN LAKE**

CONTRACTOR: **1831** DATA SOURCE: **1** DATE OF INSPECTION: **1831** INSPECTOR: **Ph P/P**

OFFICE USE ONLY

DATE: **290580**



Ministry
of the
Environment

Ontario

The Ontario Water Resources Act

WATER WELL RECORD

31C 3d

5303986

11

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

MUNICIPALITY **53001** CPM

LOT **076**

COUNTY OR DISTRICT **BRUCE COUNTY** TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE **LIASBURG** CON., BLOCK, TRACT, SURVEY ETC **2**

DATE COMPLETED DAY **24** MONTH **06** YEAR **80**

LOCALITY **BELLEVILLE ONT.** ELEVATION IN FEET **10280** SECTION **44** TOWNSHIP **24** RANGE **4**

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	3
GREY	CLAY			3	20
GREY	CLAY	GRAVEL		20	30
GREY	GRAVEL			30	32

31 00031602 0020205 0030205 0030205 0030205

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER	10 PUMPING RATE	11-14 DURATION OF PUMPING	15-16 GPM	17-18 HOURS	19-20 PUMPING	21-24 WATER LEVELS DURING	25 PUMPING	26-28 FEET	29-31 FEET	32-34 FEET	35-37 FEET	38-41 PUMP INTAKE SET AT	42 WATER AT END OF TEST	43-45 RECOMMENDED PUMP SETTING	46-49 GPM
032	FRESH <input checked="" type="checkbox"/> SALTY <input type="checkbox"/> SULPHUR <input type="checkbox"/> MINERAL <input type="checkbox"/>	0004	02	00	00	00	29-31 29-31	02	29	29	32-34	35-37	38-41 29	42	43-45	46-49

71 PUMPING TEST

STATIC LEVEL	19-21 FEET	22-24 FEET	25 PUMPING	26-28 FEET	29-31 FEET	32-34 FEET	35-37 FEET	38-41 PUMP INTAKE SET AT	42 WATER AT END OF TEST	43-45 RECOMMENDED PUMP SETTING	46-49 GPM
010	028	29	0004	29	29	32-34	35-37	38-41 29	42	43-45	46-49

FINAL STATUS OF WELL

1 WATER SUPPLY
 2 OBSERVATION WELL
 3 TEST HOLE
 4 RECHARGE WELL

WATER USE

1 DOMESTIC
 2 STOCK
 3 IRRIGATION
 4 INDUSTRIAL
 5 OTHER

METHOD OF DRILLING

1 CABLE TOOL
 2 ROTARY (CONVENTIONAL)
 3 ROTARY (REVERSE)
 4 ROTARY (AIR)
 5 AIR PERCUSSION

CONTRACTOR **MANISE DONALDSON DRILLING** LICENCE NUMBER **1805**

ADDRESS **274 MAIN ST FOXBORO ONT.**

NAME OF DRILLER OR BORER **BRUCE DONALDSON** LICENCE NUMBER **1846**

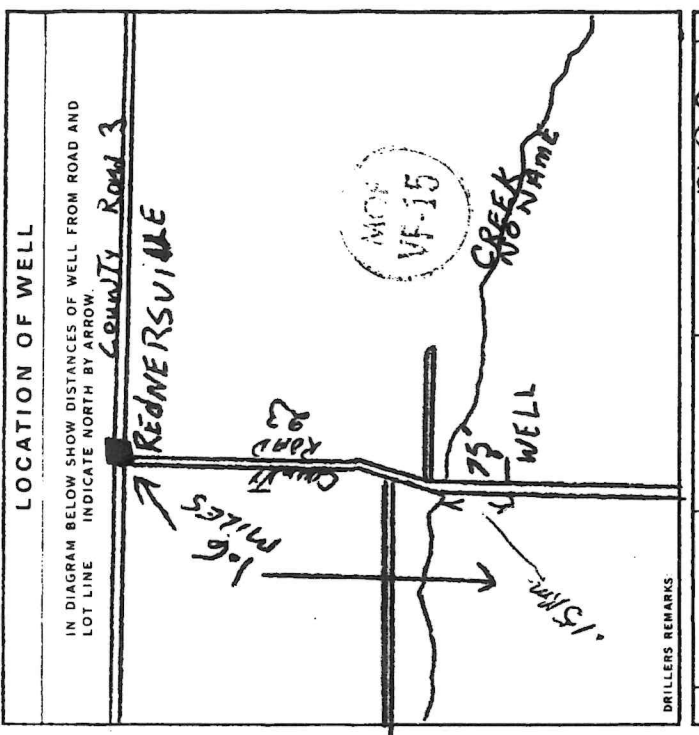
SIGNATURE OF CONTRACTOR *Ken Donaldson* SUBMISSION DATE **24** NO. **6** YEAR **80**

51 CASING & OPEN HOLE RECORD

DEPTH - FEET FROM	DEPTH - FEET TO	WALL THICKNESS INCHES	MATERIAL
0	13-16	188	STEEL
13-16	20-23		GALVANIZED
20-23	27-30		STEEL

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		
28-29	30-33		

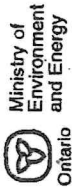


DRILLERS REMARKS

DATE SOURCE **1** CONTRACTOR **1805** DATE RECEIVED **070780**

DATE OF INSPECTION **K** INSPECTOR

REMARKS



The Ontario Water Resources Act
WATER WELL RECORD

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

11

5306439

Municipality
53001 CON
Con. block tract survey, etc. Lot 77

County or District
Township/Borough/City/Town/Village
Address
AMELIASBURG
BRIBELVILLE KEN 421
Date completed 24 May 1998

LOG OF OVERBURDEN AND BEDROCK MATERIALS (see instructions)

General colour	Most common material	Other materials	General description	Depth - feet
				From To
BROWN	TOP SOIL		SOFT	0 2
BROWN	CLAY	SAND STONES	SOFT	2 5
GREY	CLAY		EXTREMELY HARD	5 50
GREY	HARD LIMESTONE		HARD.	50 109

WATER RECORD

Water found at - feet	Kind of water
85	<input checked="" type="checkbox"/> Fresh <input type="checkbox"/> Salty <input type="checkbox"/> Sulphur <input type="checkbox"/> Minerals <input type="checkbox"/> Gas
15-16	<input type="checkbox"/> Fresh <input type="checkbox"/> Salty <input type="checkbox"/> Sulphur <input type="checkbox"/> Minerals <input type="checkbox"/> Gas
20-25	<input type="checkbox"/> Fresh <input type="checkbox"/> Salty <input type="checkbox"/> Sulphur <input type="checkbox"/> Minerals <input type="checkbox"/> Gas
25-28	<input type="checkbox"/> Fresh <input type="checkbox"/> Salty <input type="checkbox"/> Sulphur <input type="checkbox"/> Minerals <input type="checkbox"/> Gas
30-33	<input type="checkbox"/> Fresh <input type="checkbox"/> Salty <input type="checkbox"/> Sulphur <input type="checkbox"/> Minerals <input type="checkbox"/> Gas

CASING & OPEN HOLE RECORD

Material	Well thickness inches	Depth - feet
		From To
<input type="checkbox"/> Steel <input type="checkbox"/> Galvanized <input type="checkbox"/> Concrete <input type="checkbox"/> Open hole <input type="checkbox"/> Plastic		0 21
<input checked="" type="checkbox"/> Galvanized <input type="checkbox"/> Concrete <input type="checkbox"/> Open hole <input type="checkbox"/> Plastic	188	0 28
<input type="checkbox"/> Steel <input type="checkbox"/> Galvanized <input type="checkbox"/> Concrete <input type="checkbox"/> Open hole <input type="checkbox"/> Plastic		28 109

PUMPING TEST

71 Pumping test method Pump Bailler

11-14 Pumping rate 2 GPM

15-16 Water level during Pumping Recovery

Static level	Water level	Recovery
8 feet	31 feet	45 minutes
87 feet	62 feet	60 minutes

19-21 If flowing give rate 31-41 GPM

22-24 Pump intake set at 100 feet

25-26 Recommended pump setting 100 feet

27-28 Recommended pump rate 200 GPM

29-31 Water at end of test 31 feet

32-34 Pumping rate 2.0 Min

35-37 Recovery 60 minutes

38-41 Water at end of test Cloudy

42-46 Recommended pump rate 200 GPM

FINAL STATUS OF WELL

Water supply Abandoned, insufficient supply Unfinished

Observation well Abandoned, poor quality Replacement well

Test hole Abandoned (Other)

Recharge well Dewatering

WATER USE

Domestic Commercial Not used

Stock Municipal Other

Irrigation Public supply Other

Industrial Cooling & air conditioning

METHOD OF CONSTRUCTION

Cable tool Air percussion

Rotary (conventional) Boring

Rotary (reverse) Diamond

Rotary (air) Jetting

Name of Well Contractor PRINCE EDWARD ORILLERS

Address AR3 PICTON KOKATO

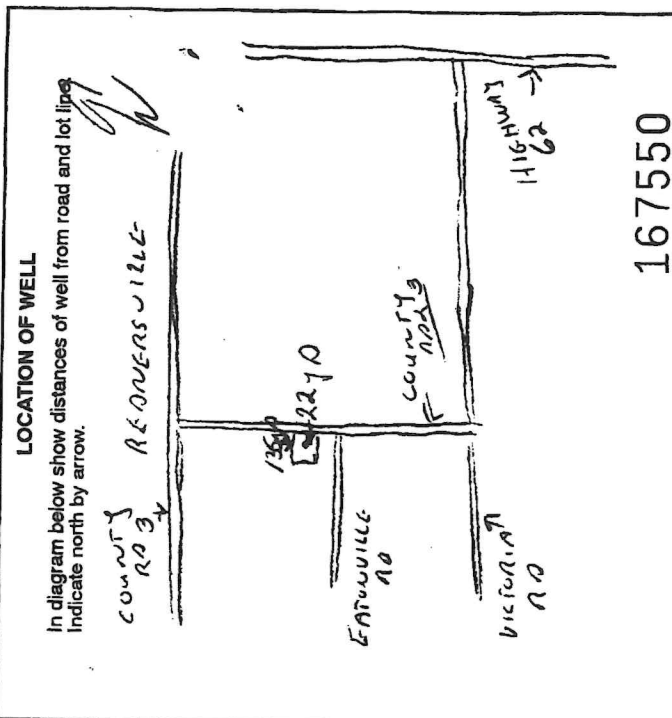
Name of Well Technician ROSS BRANSON

Signature of Technician/Contractor Ross Branson

Well Contractor's Licence No. 6005

Well Technician's Licence No. 621

Submission date 24 May 1998



MINISTRY USE ONLY

Data source 6005

Date of inspection APR 17 1998

Inspector

Remarks



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 2

5306773

Municipality 53001 Con 001

County or District: **Pelee Islands**
 Township/Borough/City/Town/Village: **City of Amherstburg**
 Address: **RR # 7 Belleisle**
 block tract survey, etc.: **2**
 Lot: **PH 1**
 Date completed: **26 day 89 month 09 year**

LOG OF OVERBURDEN AND BEDROCK MATERIALS (see instructions)

General colour	Most common material	Other materials	Depth - feet	
			From	To
Black	Topsoil		0	1'
Brown	Clay + Stones		1'	15'
GREY	Clay + Stones		15'	22 1/2"
GREY	Limestone		22 1/2"	85'
		- WELL WATER IS NOT SEDIMENT FREE		

31
32

WATER RECORD

Water found at - feet: 27	Kind of water: <input checked="" type="checkbox"/> Fresh <input type="checkbox"/> Sulphur <input type="checkbox"/> Minerals <input type="checkbox"/> Gas	Water level at end of pumping: 77'	Water level during: 74 feet	Pumping rate: 75 GPM
82	<input type="checkbox"/> Fresh <input type="checkbox"/> Sulphur <input type="checkbox"/> Minerals <input type="checkbox"/> Gas	84.1 feet	67.8 feet	15 minutes: 30 minutes: 32.34
	<input type="checkbox"/> Fresh <input type="checkbox"/> Sulphur <input type="checkbox"/> Minerals <input type="checkbox"/> Gas			Recovery: 60 minutes: 35.37
	<input type="checkbox"/> Fresh <input type="checkbox"/> Sulphur <input type="checkbox"/> Minerals <input type="checkbox"/> Gas			Water at end of test: 62.16 feet
	<input type="checkbox"/> Fresh <input type="checkbox"/> Sulphur <input type="checkbox"/> Minerals <input type="checkbox"/> Gas			Recommended pump setting: 82' feet
	<input type="checkbox"/> Fresh <input type="checkbox"/> Sulphur <input type="checkbox"/> Minerals <input type="checkbox"/> Gas			Recommended pump rate: Est GPM

CASING & OPEN HOLE RECORD

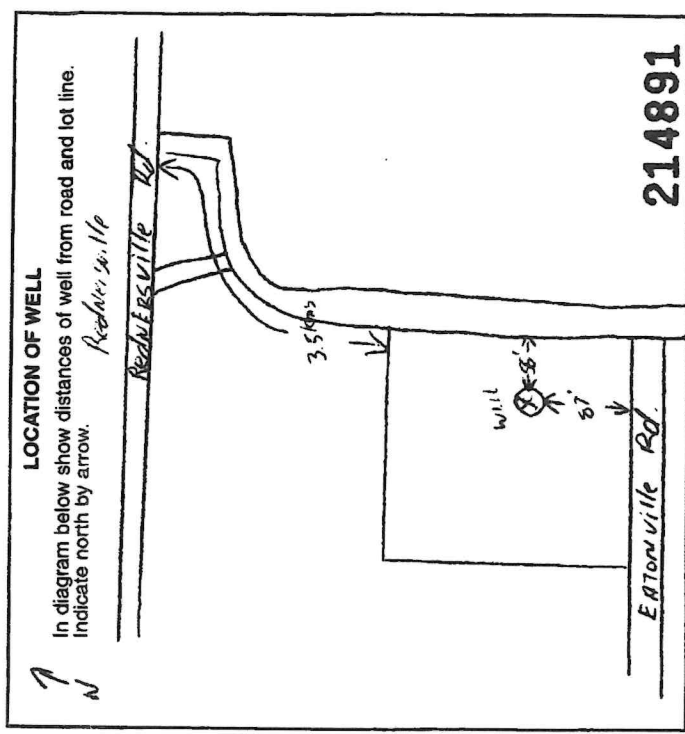
Material: 1 Steel	Thickness: .188 inches	Depth - feet: From 30' To 13.16'
2 Galvanized		above ground 22 1/2"
3 Concrete		
4 Open hole		
5 Plastic		
1 Steel		Depth - feet: From 22 1/2" To 27.30'
2 Galvanized		85'
3 Concrete		
4 Open hole		
5 Plastic		
1 Steel		Depth - feet: From 27.30' To 37.30'
2 Galvanized		
3 Concrete		
4 Open hole		
5 Plastic		

SCREEN

Sizes of opening (Slot No.): 31-33	Diameter: 34-36 inches	Length: 75 feet
Material and type: CONCRETE	Depth at top of screen: 41-44 feet	

PLUGGING & SEALING RECORD

Annular space: <input type="checkbox"/>	Abandonment: <input type="checkbox"/>
Depth set at - feet: From 0 To 10 1/2	Material and type (Cement grout, bentonite, etc.): CONCRETE
15-17	
18-21	
22-25	
26-29	
30-33	



PUMPING TEST

Pumping test method: <input checked="" type="checkbox"/> Pump <input type="checkbox"/> Bailor	Water level at end of pumping: 77'	Water level during: 74 feet	Pumping rate: 75 GPM
Static level: 77'	84.1 feet	67.8 feet	15 minutes: 30 minutes: 32.34
If flowing give rate: 30.01	Water at end of test: 62.16 feet	Recommended pump setting: 82' feet	Recovery: 60 minutes: 35.37
Recommended pump type: <input type="checkbox"/> Shallow <input checked="" type="checkbox"/> Deep	Recommended pump rate: Est GPM	Recommended pump setting: 82' feet	Water at end of test: 62.16 feet

FINAL STATUS OF WELL

Water supply
 Observation well
 Test hole
 Recharge well

Abandoned, insufficient supply
 Abandoned, poor quality
 Abandoned (Other)
 Dewatering

WATER USE

Domestic
 Stock
 Irrigation
 Industrial

METHOD OF CONSTRUCTION

Cable tool
 Rotary (conventional)
 Rotary (reverse)
 Rotary (air)

Air percussion
 Boring
 Diamond
 Jetting

MINISTRY USE ONLY

Name of Well Contractor: **ALEXANDER WELL DRILLING**
 Address: **RR # 2 Carrying Place**
 Name of Well Technician: **DAVE ALEXANDER**
 Signature of Technician/Contractor: *[Signature]*

Well Contractor's Licence No.: **6663**
 Well Technician's Licence No.: **T-0532**
 Submission date: **27 mo 02 yr 01**

Data source: **6663**
 Date of inspection: **MAR 28 2001**
 Date received: **MAR 28 2001**

Remarks: **CSS.ES1**



Measurements recorded in: Metric Imperial

Page _____ of _____

Address of Well Location (Street Number/Name) **7775 HART J.** Lot _____ Concession _____
 Township **Amherstburg** Province **Ontario** Postal Code _____
 City/Town/Village _____ Other _____
 County/District/Municipality _____
 Municipal Plan and Sublot Number _____
 JTM Coordinates Zone **18** Easting **305101** Northing **4884682**

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	To			From To
15	9	SEA Stone		
9	8	ISOLATING		
8	0	EXPOSING CLAY		
			Well Decommission	

Annular Space

Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m ³ /ft ³)
From	To	
15	9	2 YDS.
9	8	1/2 YD
8	0	3 YDS.

Method of Construction

Cable Tool Diamond Public Commercial Not used
 Rotary (Conventional) Jetting Domestic Municipal Dewatering
 Rotary (Reverse) Driving Livestock Test Hole Monitoring
 Boring Digging Irrigation Cooling & Air Conditioning
 Air percussion Industrial Other, specify _____
 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)	Status of Well
			From To	
36	CONCRETE	4	0 15	<input type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input type="checkbox"/> Observation and/or Monitoring Hole <input type="checkbox"/> Alteration (Construction) <input checked="" type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input type="checkbox"/> Abandoned, other, specify _____ <input type="checkbox"/> Other, specify _____

Construction Record - Screen

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

Water Details

Water found at Depth (m/ft)	Kind of Water:	Depth (m/ft)	Hole Diameter (cm/in)
	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	From To	

Well Contractor and Well Technician Information

Business Name of Well Contractor **Logic Water Solutions** Well Contractor's Licence No. **6524**
 Business Address (Street Number/Name) **352 Marsh Rd** Municipality **Belleville**
 Province **Ont** Postal Code **K8M4Z7** Business E-mail Address _____
 Name of Well Technician (Last Name, First Name) **Quigley, Kim**
 Well Technician's Licence No. **118150** Signature of Technician and/or Contractor *[Signature]* Date Submitted **2015/06/18**

Results of Well Yield Testing

After test of well yield, water was:	Draw/Down	Recovery
<input type="checkbox"/> Clear and sand free <input type="checkbox"/> Other, specify _____	Time (min) Water Level (m/ft)	Time (min) Water Level (m/ft)
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? <input type="checkbox"/> Yes <input type="checkbox"/> No	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.

CITY RD 23

FAUVILLE ROAD

30' - 45' -

← - 2

Comments:

Well owner's information package delivered Yes No

Date Package Delivered _____

Date Work Completed **2015/06/13**

Ministry Use Only

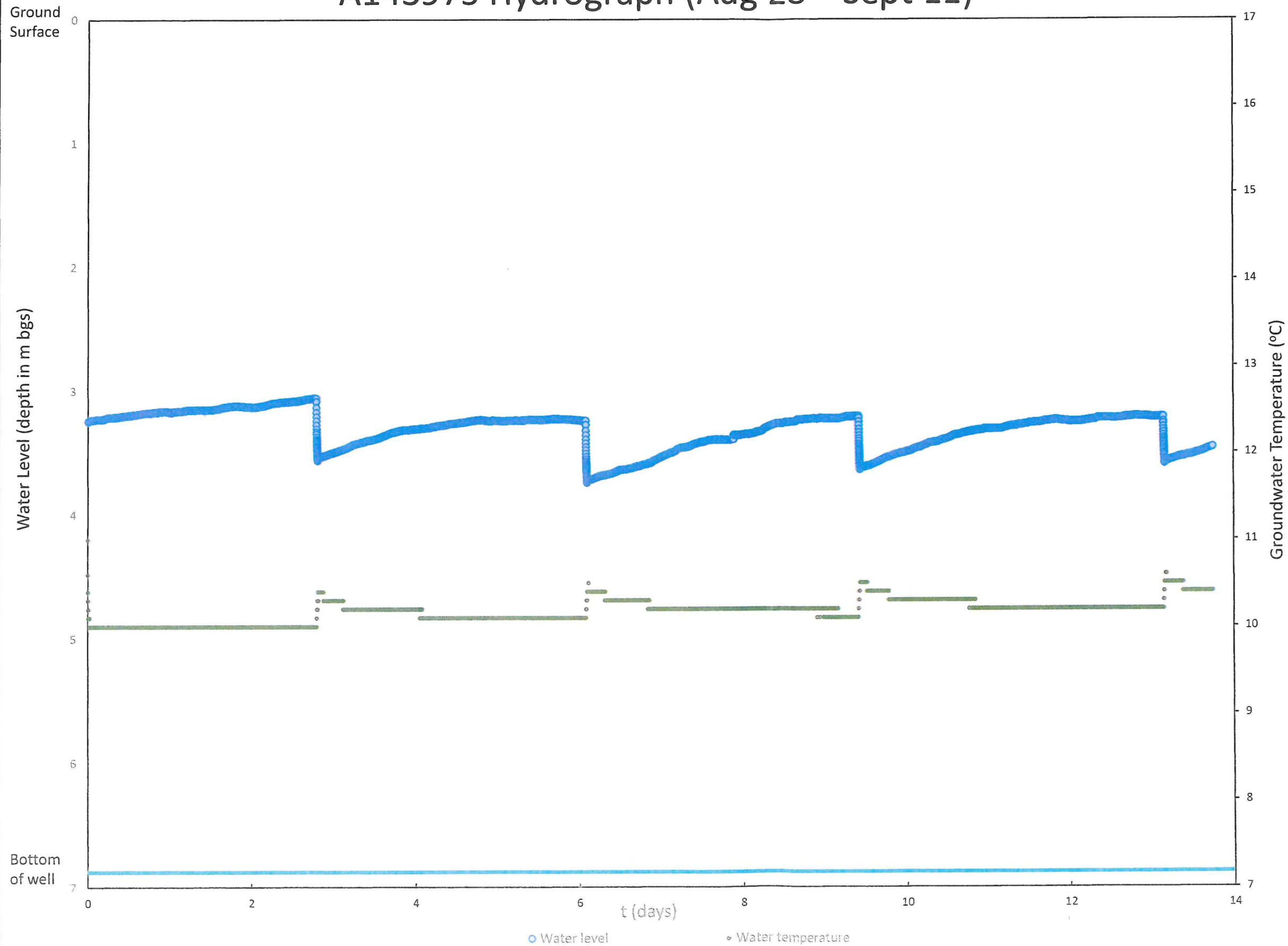
Audit No: **Z 209149**

Received **JUN 23 2015**



Appendix B: Hydrograph

A143975 Hydrograph (Aug 28 – Sept 11)

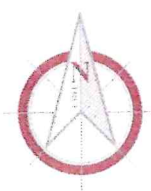


GREER GALLOWAY
CONSULTING ENGINEERS
PETERBOROUGH
BELLEVILLE
KINGSTON
1620 WALLBRIDGE LOYALIST ROAD
BELLEVILLE, ONTARIO, K8N 4Z5
PHONE: 613-966-3068
FAX: 613-966-3087

NOTES:

- 1) Testing carried out between August 28, 2025 and September 11, 2025
- 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 25-6112A:

SCOPED HYDROGEOLOGY STUDY
82 EATONVILLE ROAD
AMELIASBURGH, ON

HYDROGRAPH (A143975)
AUG 18, 2025 – SEPT 11, 2025



Appendix C: Laboratory Certificate of Analysis

C.O.C.: Wilson

REPORT No: 25-026326 - Rev. 0

Report To:

Greer Galloway, a division of Jp2g Consultants Inc.
 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: 2025-Aug-29
 DATE REPORTED: 2025-Sep-08
 SAMPLE MATRIX: Ground Water

CUSTOMER PROJECT: Wilson
 P.O. NUMBER: PO#25-6112A

Analyses	Qty	Site Analyzed	Authorized	Date Analyzed	Lab Method	Reference Method
Anions (Liquid)	1	OTTAWA	PCURIEL	2025-Sep-03	A-IC-01	SM 4110B
Colour (Liquid)	1	OTTAWA	AGRAF	2025-Sep-02	A-COL-01	SM 2120C
Cond/pH/Alk Auto (Liquid)	1	OTTAWA	SBOUDREAU	2025-Sep-03	COND-02/PH-02/A LK-02	SM 2510B/4500H/ 2320B
Coliforms - DC Media (Liquid)	1	KINGSTON	BBURTCH	2025-Aug-29	ECTC-001	MECP E3407
DOC (Liquid)	1	OTTAWA	LMACGREGOR	2025-Sep-03	C-OC-01	EPA 415.2
ICP/MS (Liquid)	1	OTTAWA	GFENTON	2025-Sep-03	D-ICPMS-01	EPA 200.8
ICP/OES (Liquid)	1	OTTAWA	SGORMAN	2025-Sep-03	D-ICP-01	SM 3120B
Sulphide (Liquid)	1	KINGSTON	MWILSON	2025-Sep-04	H2S-001	SM 4500-S2
TP & TKN (Liquid)	1	KINGSTON	YLIEN	2025-Sep-04	TPTKN-001	MECP E3516.2
Turbidity (Liquid)	1	OTTAWA	LMACGREGOR	2025-Sep-03	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

CADUCEON Environmental Laboratories Certificate of Analysis

Final Report
REPORT No: 25-026326 - Rev. 0

Parameter	Units	R.L.	Limits	DWG	Client I.D.
					TW
					Sample I.D.
					25-026326-1
					Date Collected
					2025-Aug-28
Total Coliform (DC Media)	CFU/100mL	1	0	MAC	1
E coli (DC Media)	CFU/100mL	1	0	MAC	0
Background (DC Media)	CFU/100mL	1			>200
Alkalinity(CaCO3) to pH4.5	mg/L	5	500	OG	295
Conductivity @25°C	uS/cm	1			761
pH @25°C	pH units	-	8.5	OG	7.99
Colour	TCU	2	5	AO	<2
Turbidity	NTU	0.1	5	AO	0.7
Fluoride	mg/L	0.1	1.5	MAC	0.1
Chloride	mg/L	0.5	250	AO	23.4
Nitrate (N)	mg/L	0.05	10.0	MAC	<0.05
Nitrite (N)	mg/L	0.05	1.0	MAC	<0.05
Sulphate	mg/L	1	500	AO	83
Phosphorus (Total)	mg/L	0.01			0.02
Total Kjeldahl Nitrogen	mg/L	0.1			0.2
Dissolved Organic Carbon	mg/L	0.8	5	AO	4.1
Sulphide	mg/L	0.01	0.05	AO	<0.01
Hardness (as CaCO3)	mg/L as CaCO3	0.02	100	OG	367
Calcium	mg/L	0.02			77.0
Iron	mg/L	0.005	0.3	AO	0.008
Magnesium	mg/L	0.02			42.6



Michelle Dubien
Data Specialist

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

CADUCEON Environmental Laboratories Certificate of Analysis

Final Report
REPORT No: 25-026326 - Rev. 0

				Client I.D.	TW
				Sample I.D.	25-026326-1
				Date Collected	2025-Aug-28
Parameter	Units	R.L.	Limits	DWG	
Manganese	mg/L	0.001	0.05	AO	0.002
Sodium	mg/L	0.2	200, 20, 20	AO, WL, MAC	14.6
Lead	mg/L	0.00002	0.010	MAC	0.00002

DWG - Drinking Water Guidelines

ODWS - Ontario Drinking Water Standards
 AO - Aesthetic Objectives
 IMAC - Interim Maximum Acceptable Concentration
 MAC - Maximum Acceptable Concentration
 ODWO - D-5-5 Objective
 OG - Operational Guidelines
 WL - Warning Level - Sodium Restricted Diets

Summary of Exceedances		
Maximum Acceptable Concentration		
TW	Found Value	Limit
Total Coliform (DC Media)	1	0
Operational Guidelines		
TW	Found Value	Limit
Hardness (as CaCO3)	367	100



Michelle Dubien
Data Specialist

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