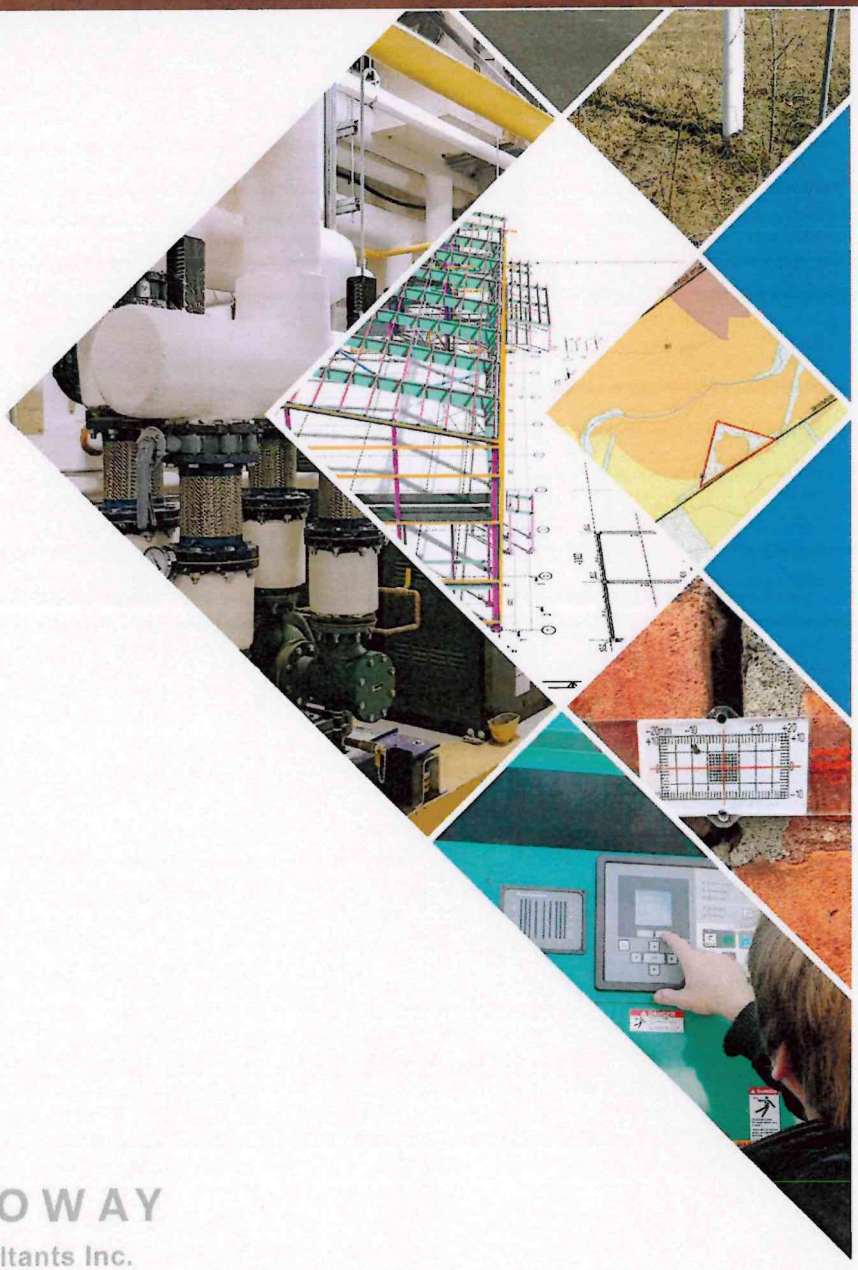
Hydrogeological assessment for proposed single lot severance
2544 County Road 13
Milford, Prince Edward County, Ontario



Prepared for:
Gillian and Todd Taylor
2545 County Road 13, Milford,
Prince Edward County, ON
K0K 2P0

Submitted by:
The Greer Galloway Group
a division of Jp2g Consultants Inc
1620 Wallbridge Loyalist Road
Belleville, Ontario
K8N 4Z5

August 2026

Jp2g Project 25-6083A

GREER GALLOWAY
a division of Jp2g Consultants Inc.

Author and Review Panel

Issue Code	Revision					Revision Details
	No.	By	Rev'd.	App.	Date	
RR	0	DD	JP	JP	July 13, 2026	Draft for review and comment
RR	1	DD	JP	JP	Aug 11, 2026	Methane Screening added
RI	2	DD	JP	JP	Aug 12, 2026	Issued to client

Issue Codes: RR = Released for Review and Comments, RI = Released for Information

Signatures

John Porritt, P. Geo.
Senior Hydrogeologist

Danielle Davidson
Environmental Technologist

Table of Contents

Author and Review Panel i

Signatures i

1 Introduction 1
1.1 Objective of this Assessment 1

2 Investigation Methods 1
2.1 Site Investigation 1
2.2 Well Records Search and Survey 2
2.3 Water Supply Assessment 2
2.3.1 Step Test 2
2.3.2 Constant Rate Flow Test 2
2.4 Water Quality Assessment 3

3 Findings 3
3.1 Property Description 3
3.2 Topography and Drainage 3
3.3 Geology 4
3.4 Hydrogeology 4
3.5 Well Testing 5
3.5.1 Step Test 5
3.5.2 6-hour Constant Rate pumping test 5
3.6 Water Quality 6
3.7 Potential for Well Interference 6
3.8 Sewage Servicing 7
3.9 Methane Screening 7

4 Conclusions 7

5 Recommendations 8

6 References 9

7 Tables 10

Tables (appended after text)

Table 1: Summary of well depths and yields within a 500 m radius of the property

Table 2: Summary of Analytical Results

Drawings (appended after text)

Drawing 1: Site Plan Showing Project Location

Drawing 2: Neighbour wells and septic systems

Appendices

APPENDIX A Well Records

APPENDIX B Hydrographs

APPENDIX C Laboratory Certificate of Analysis

APPENDIX D Grain Size Analysis

APPENDIX E Fluoride Information Sheet

1 Introduction

Greer Galloway, a division of Jp2g Consultants Inc. (Jp2g) was retained by Gillian and Todd Taylor to conduct a Hydrogeological assessment of a property located at 2544 County Road 13, Milford, Prince Edward County, Ontario.

The subject property, located at Lot 9, West Bay Concession, Marysburgh Township, covers an area of approximately 30 hectares. The property is zoned Rural (RU), and is primarily abandoned agricultural fields with approximately 2.5ha adjacent to County Road 13 at the north covered by shrubs and field grasses.

The client wishes to sever a 15ha parcel, retaining the other 15ha, through division of the existing property in the longitudinal direction into two more or less equally sized portions.

1.1 Objective of this Assessment

The purpose of this work was to assess the soil and groundwater conditions at the site to provide information to assist regulatory agencies in determining whether the proposed severance can support a single family dwelling with private water and wastewater servicing.

2 Investigation Methods

This assessment 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 subject property, and an analysis of sewage servicing options in general accordance with Ministry of the Environment Conservation and Parks (MECP) Guideline D-5-4 (Individual On-Site Sewage Systems) and with MECP Guideline D-5-5 (Private Well: Well Assessment), and included the following investigations.

A step test was performed on the newly installed well #A433451 during low-recharge autumn conditions and a 6-hour pumping test was performed on the same well during low-recharge summer conditions after the well casing was extended. Water samples were collected for analysis during both pumping tests along with monitoring water level responses in the test well and observation wells prior, during, and after the pumping tests.

The investigation methods are described further in the following subsections:

2.1 Site Investigation

The proposed drinking water supply for the severance is Well #A433451. The well was constructed on October 21, 2025, the reported casing depth was shallower than is required under O.Reg. 903. The well casing was extended and the Well Record amended on June 2, 2026.

On August 8, 2025 a representative of Jp2g visited the property to assess the topography, drainage, identify shallow soil conditions and independently confirm the presence of physical features shown on available mapping. Test pitting was completed at key locations on the proposed severance.

2.2 Well Records Search and Survey

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

On November 20, 2025, Jp2g staff conducted a neighbouring well survey and asked permission to monitor the wells of nearby homeowners for the purpose of this study. Four homeowners responded to the survey, and letters were delivered to all homeowners who did not respond. Homeowners at 2475, 2535, 2562, and 2568 County Road 13 all provided responses to the survey. Automated level loggers were installed at 2562 County Road 13 and 2535 County Road 13 for monitoring of potential well interference before, during and after the step test and reinstalled for monitoring of potential well interference before, during and after the 6-hour test.

2.3 Water Supply Assessment

The water supply assessment was based on two pumping tests of the drilled well #A433451 constructed October 21, 2025 at 2544 County Road 13. The well is in the north-west portion of the lot, approximately 74 metres from County Road 13. The well is a 150mm diameter drilled well with a depth of 23.06 metres below ground surface (BGS) and a driller reported yield of 22.7 litres per minute.

2.3.1 Step Test

A Step test was performed on November 20, 2025 using a submersible pump that was set at a depth of approximately 0.6m from the bottom of the well, with the discharge routed through a valve that was manually adjusted to control the pumping rate. The test was designed with three sequential flow rates chosen at steps of 6L/min, 12L/min and 18L/min with no recovery between steps. The discharge water was directed away from the pumped well, a distance of approximately 30m downgradient of the well. Wellhead turbidity measurements were taken approximately every 30 minutes during the first step and approximately every hour during the second and third step and at the beginning and end of each step of the test using a Hach 2100Q Portable Turbidimeter.

2.3.2 Constant Rate Flow Test

A 6-hour Constant Rate flow test was performed on June 16, 2026 using a submersible pump that was set at a depth of approximately two metres from the bottom of the well, and the discharge was routed through a valve that was manually adjusted to the pumping rate of 16L/min. The pumping rate was checked periodically throughout the test using time-volume measurements. The discharge water was directed away from the pumped well, a distance of approximately 30m downgradient of the well.

Data-logging pressure transducers (Solinst Model 3001) were installed in the tested well and neighbouring wells at 2562 County Road 13 and 2535 County Road 13. The datalogger in the test well was set to record at 10-second intervals. Hydrographs are provided in Appendix B.

2.4 Water Quality Assessment

The test well was shock chlorinated on June 15, 2026 prior to flow testing. Wellhead turbidity measurements were taken at approximately 1hr, 2hrs, 3hrs, 4hrs, 4.5hrs and 5.5hrs into the test. A discharge sample was obtained during the last hour of the pumping test after confirming that the free chlorine residual was below the detection limit of a handheld free chlorine Hach Pocket Colorimeter. An additional sample was collected from Well A433451 in order to determine if there had been a change in groundwater chemistry over the course of the test. All samples were placed into laboratory-prepared sample containers that were sealed, placed into a cooler with ice packs to maintain a temperature of approximately 4° Celsius, and transported to Caduceon Laboratories in Kingston, Ontario under chain-of-custody.

Analytical parameters sampled for during the 6-hour Constant Rate test performed on June 16, 2026 included E. coli and Total Coliform bacteria as well as Alkalinity, pH, Conductivity, Colour, Turbidity, Fluoride, Chloride, Nitrite and Nitrate, Sulphate, TKN, Total Phosphorus, DOC, Hardness, Calcium, Iron, Magnesium, Manganese, Sulphide, Sodium, and Lead.

Analytical parameters sampled for during the step test performed on November 20, 2025 included Alkalinity, pH, Colour, Turbidity, Fluoride, Chloride, Nitrite and Nitrate, Sulphate, Hardness, Iron, Magnesium, Manganese, Sodium, and Lead. (refer to the Laboratory Certificate of Analysis in Appendix C).

3 Findings

3.1 Property Description

The subject property, located at Lot 9, West Bay Concession, Marysburgh Township, Prince Edward County, covers an area of approximately 30 hectares. The property is zoned Rural (RU), and is abandoned agricultural land. A 2.5ha portion of the property adjacent to County Road 13 cleared of trees, is covered by shrubs and field grasses. Approximately 0.4ha of this area has recently been ploughed for an archeological study.

The property is bounded to the north by County Road 13, to the east by rural residential properties, to the south by undeveloped land, and to the west by agricultural land.

3.2 Topography and Drainage

Topography of the property is generally flat, sloping gradually towards the south, except for a slight drop at the north end of the property towards Prince Edward Bay to the northwest. The ground surface elevation at the border of County Road 13 is approximately 79 metres above mean sea level

(mASL). A 30 metre diameter pond is located on the proposed severance property, 150m southeast of County Road 13. At the time of this field investigation, the water level of this pond was about 2m below the local ground surface.

Notable surface water bodies in the area are the small natural pond on the proposed severance, and Prince Edward Bay part of Lake Ontario, located 150m northwest of the proposed severance. Municipal servicing is not available in the area; drinking water and sewage servicing are provided by individual water supply wells and septic systems.

3.3 Geology

The Ontario Soil Report No.10 (1947) classifies soils in this area as primarily Farmington loam on the undeveloped part of the property, with some South Bay clay loam mapped on the area planned for development. Farmington loam is described as a thin layer (approximately 10cm) of dark brown loam with limestone fragments, underlain by 10-15cm of grey-brown stony loam with some clay, with soil cover thin and tending to dry out in periods of low rainfall.

South Bay clay loam, in its A horizons, is described as a dark-brown to yellow-brown clay loam, free of stones, with a soft consistency, a crumb structure, and some organics. Some mottling may be present, and a thin grey bleached layer occurs above the B horizon. B horizon soils are described as dark brown stone-free clay with a blocky structure and firm consistency. C horizon soils are described as a calcareous grey-brown silt and clay mixture (Ontario Soils Report No. 10, 1947).

Soils in the northern portion of the proposed severance were evaluated through backhoe test pits. Four holes were constructed to 1.6m depth or refusal at bedrock, at the locations shown on Figure 2: Neighbour Wells and Septic Systems, and their profiles logged and representative samples taken. The excavations remained open for at least one hour to observe any water inflow, before being backfilled. All holes remained dry during the testing. The soil had recently been ploughed, and there was no identifiable topsoil layer. In general, the soil profile observed consists of 0.25m of silty-loam with abundant gravel overlying limestone bedrock. Clay loam was not found in any of our test pits. Grain size analysis of a soils sample from Test Pit 3 showed USC classification of SM (medium to low permeability).

The Ontario Geological Survey (2011) has described the bedrock as nodular to black-laminated limestone belonging to the Lindsay Formation of the Simcoe Group.

3.4 Hydrogeology

A search of the Ministry of the Environment, Conservation and Parks (MECP) Well Record Database returned nine well records within a 300 metre radius of the proposed severance. These records are summarized in Table 1 (appended after text).

The records indicate that bedrock in the area is encountered between 0.9m to 5.5mBGS, with a median depth to bedrock of 1.4mBGS. The median driller-reported well yield is 22.7L/min.

Based on the recorded static levels and the topographic setting, the dominant property groundwater flow direction is to the south but with a local gradient in the area of the newly constructed well is towards Prince Edward Bay (Lake Ontario) to the northwest.

The site does not lie within a mapped provincial Well Head Protection Area (WHPA).

3.5 Well Testing

The client engaged Chalk Well Drilling of Napanee, Ontario to construct a drilled well on the property. Greer Galloway was provided the client copy of the proposed drinking water supply Well #A433451 constructed on October 21, 2025.

3.5.1 Step Test

At 10:30 on November 20, 2025, the static water level of the well was measured and found to be 3.42mBGS. The depth of the well was measured and was found to be 24.60mBGS. The pump was set at a depth of 24.0mBGS. Pumped water was discharged a distance of about 30m downgradient, towards a depression to the southeast.

At 10:41, the pump was turned on and was set to a pumping rate of 6L/min for Step 1. This rate was maintained for 122 minutes, discharging a total of 732 litres from the well. Over the duration of the step the water level dropped to 5.76mBGS, at which point the water level was decreasing by only 0.01-0.02 metres every five minutes. The wellhead turbidity was found to be 224NTU at 10:55 and had decreased to 19.6NTU by 12:40.

At 12:43, the flow rate of the pump was increased to 12L/min (Step 2). This rate was maintained for 137 minutes, though an issue occurred with the equipment at 13:45 causing the flow rate to temporarily drop to 8L/min and the water level to rise. This issue was resolved within 10 minutes, and the flow rate was restored to 12L/min, where it remained constant for the remainder of the step. Approximately 1,600 litres were discharged from the well during this step. The water level was 5.76mBGS at the beginning of this 12L/min step, and over the duration of the step the water level dropped to 10.24mBGS. Wellhead turbidity decreased to 5.5NTU during this step but briefly increased to 7.42NTU immediately after the equipment issue was resolved, then decreased to 6.51NTU.

At 15:00, the flow rate of the pump was increased to 18 L/min (Step 3). This rate was maintained for 95 minutes, discharging 1,710 litres from the well during this step. The water level at the beginning of this step was 10.24mBGS, and over the duration of pumping, it dropped to 17.40mBGS. Turbidity increased to 16.5NTU after increasing the flow rate to 18L/min at the start of the step. The final wellhead turbidity reading was 19.1NTU, taken at 16:30, when the water quality sample was taken.

A total of 4086 litres of water were removed from the well during the three steps of this testing.

The pump was stopped at 16:35, and the recovery was monitored in five-minute intervals until 17:30. The water level recovered from 17.4mBGS to 5.35mBGS during this interval. This represents an 87% recovery of the initial static water level.

3.5.2 6-hour Constant Rate pumping test

On analysis of the results of the step testing carried out in November 2025, it was determined that the well casing depth did not comply with Regulation 903 of the Ontario Water Resources Act, as only 9ft (2.74 metres) of continuous casing was present in the well whereas the first water-found

horizon was reported at 19ft (5.79 metres) depth. This may have contributed to the elevated and persistent wellhead turbidity observed during the step testing. The well owner was advised of the situation, and the driller returned and extended the continuous steel casing to 17ft (5.18 metres) below ground surface on June 2, 2026. The updated well record is attached.

A 6-hour Constant Rate pumping test was performed on the upgraded drilled water supply well A433451 located at 2544 County Road 13 on June 16, 2026 during low recharge summer conditions. The static level was measured as 3.22mBGS prior to commencing the pumping test.

Pumping was carried out over a 6-hour and 6 minute period, with a design flow rate of 16 litres per minute based on the results of the step testing performed earlier. The test began at 09:30 and ended at 15:36 on the same day. The pumping test was commenced at a flow rate of 52L/min and remained at this rate for the first 6 minutes of the pumping test until the flow was manually adjusted to 18L/min for 14 minutes. At 20 minutes into the test the design rate of 16L/min was achieved and this pumping rate remained constant until the end of the 6-hour test. At the end of the test the water level was 8.87mBGS, with a total drawdown of approximately 5.65m from the beginning of the pumping test. A volume of 6068 litres was pumped from the well over the course of the test, with a residual available drawdown of 14.19 metres or 55% remaining at the end of pumping. Following the termination of pumping test, 62% recovery occurred in the first 20 minutes and was followed by slower gradual recovery. Recovery greater than 95% occurred in under 3 hours following the cessation of pumping. Hydrographs of the data for this pumping test is included in Appendix B.

3.6 Water Quality

During the step testing on November 20, 2025 a water sample was taken within the last 5 minutes of drawdown and analysed for Alkalinity, pH, Colour, Turbidity, Fluoride, Chloride, Nitrite and Nitrate, Sulphate, Hardness, Iron, Magnesium, Manganese, Sodium, and Lead. Results showed elevated Turbidity and Sodium. As this step testing was focussed on exploring the hydraulic characteristics of the well, bacteriological testing was not carried out.

The analytical results from the groundwater samples for Well A433451, collected within the last hour of flow testing showed no detectable E.coli or Total Coliform bacteria. In terms of physical and chemical parameters, the groundwater is high in Fluoride.

Wellhead turbidity measurements, collected during the Constant Rate flow test, showed a general decrease in turbidity from 76.6NTU to 3.63NTU at the end of the test. This demonstrates an improvement in water quality for this well from the extension of the continuous casing from 9ft (2.74m) to 17ft (5.18m) which is just above the reported water-found horizon at 19ft (5.79m).

Analytical results are included as Table 2 (appended after text).

3.7 Potential for Well Interference

During the pumping test, water supply wells at 2562 County Road 13 and 2535 County Road 13 were monitored for well interference, and no observable interference was noted during the 6-hour pumping test in the well at 2562 County Road 13. An observable response was noticed in the drilled

well at 2535 County Road 13 (approximately 125 m away) where a maximum drawdown of 0.58 metres was observed equivalent to 5% of the available drawdown in the well.

3.8 Sewage Servicing

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.

The site conditions are considered suitable for a private sewage treatment system. Any system must be constructed in accordance with Section 8 of the Ontario Building Code.

3.9 Methane Screening

Methane screening was completed using a calibrated RKI GX-2012 gas monitor equipped with a remote sampling hose. A temporary headspace chamber was created by sealing a polyethylene bag around the well casing. The sampling hose was inserted through the chamber, and air from the enclosed wellhead space was continuously drawn through the instrument. Methane concentrations were measured after instrument readings stabilized, with measurement made over a 5 minute sampling. This method was used as a qualitative to semi-quantitative screening technique to evaluate the presence of methane within the wellhead. The measurements represent field screening data and are not equivalent to laboratory-analyzed gas samples. Methane concentrations were recorded in percent lower explosive limit (%LEL), a reading of 0%LEL CH4 was observed. The instrument also recorded a reading of 21%vol oxygen (O2), 0ppm Carbon Monoxide (CO) , and 0.0ppm Dihydrogen Sulfide (H2S).

4 Conclusions

Water Supply:

1. Well A433451 meets the construction requirements of Regulation 903 of the Ontario Water Resources Act.
2. The construction of this well with less than six metres of continuous casing will require a minimum separation distance of 30 metres to septic system distribution piping.
3. Constant Rate testing of Well A433451 over six hours demonstrated this well as meeting the flow requirements of 13.5L/min for instantaneous peak demand for a residence without supplementary storage.
4. Water as tested during the Constant Rate test meets the bacteriological requirements for safe drinking water.
5. Fluoride content as measured during the Constant Rate testing of Well A433451 exceeds the Ontario Safe Drinking Water objective of 1.5mg/L. This water will require treatment before direct human consumption.

6. Interference was reported in a neighbouring drilled well at 125m distance, suggesting a piezometric link to the proposed supply well. The attributed drawdown observed in this neighbouring well was 0.58m or 5% of available drawdown.

Wastewater Disposal:

1. The proposed severance has sufficient area to comply with separation distances specified in the Ontario Water Resources Act and the Ontario Building Code Part 8.
2. Soil depth is insufficient to allow in-ground septic system distribution bed construction.
3. A fully raised septic system distribution bed will be required, to be constructed of imported material.
4. A minimum 30 metre separation between septic system distribution bed and the drinking water supply well will be required.

5 Recommendations

Water Supply:

1. All water drawn from this well must be treated by staged filtration to less than 1 micron (nominal) followed by ultraviolet or equivalent sterilization to ensure biologically safe drinking water.
2. Water to be directly consumed must be treated by reverse osmosis or equivalent to reduce fluoride content before consumption, to within the limit of 1.5mg/L at the Point of Use. This can be provided by localized treatment at the PoU (kitchen sink).
3. Treated water samples should be analysed for fluoride annually.
4. Treated water samples should be analysed semi-annually for bacteriological parameters through the local health unit service.

Wastewater Disposal:

1. A fully raised OBC Class IV septic system will be required to service this severance.
2. An imported distribution bed mantle is recommended.
3. Minimum distance of septic system distribution bed to well must be 30 metres due to the less than 6 metre continuous well casing depth.

6 References

Experimental Farms Service, 1947: Soil Map of Prince Edward County, Ontario. Soil Survey Report No. 10, Scale 1:63 360.

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.

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

7 Tables

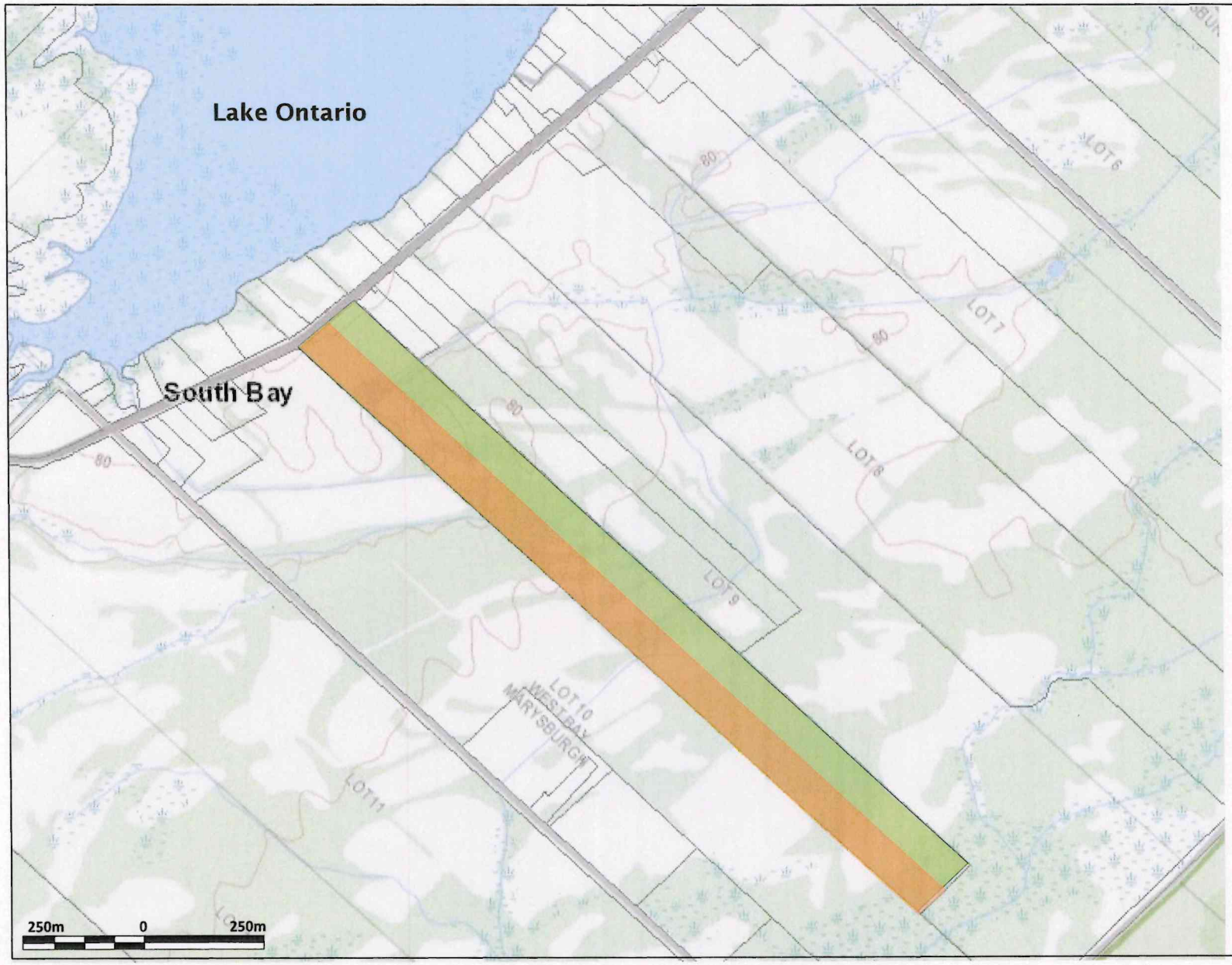
Table 1: Summary of well depths and yields within a 300 m radius of the property

Well Number	Water Found (m)	Static Level (m)	Yield (L/min)	Overburden Depth (m)	Hole Depth (m)	Water Type	Aquifer
A433451	5.7, 21.3	4.5	22.7	0.9	22.8	Untested	Bedrock
5302495	17.6	3.0	22.7	2.7	19.8	Fresh	Bedrock
5301793	9.1	3.7	22.7	5.5	10.7	Fresh	Bedrock
5301794	12.2	3.7	V. Low	1.8	13.7	Fresh	Bedrock
5301985	10.1	3.7	7.0	3.7	11.6	Fresh	Bedrock
5302934	20.1	4.3	27.2	1.2	21.3	Fresh	Bedrock
5305661	4.3, 5.8	3.0	90+	1.4	7.6	Fresh	Bedrock
5306495	4.3	3.7	15.0	1.2	13.4	Fresh	Bedrock
A003696	-	2.7	45.0	2.7	5.2	Untested	Overburden
A081962	10.7	4.9	22.7	0.9	15.2	Untested	Bedrock

Table 2: Summary of Analytical Results

Parameter	Units	RL	Nov. 20, 2025 16:30	June 16, 2026 15:00	June 16, 2026 15:30	MECP D-5-5 Limit
Total Coliform (DC Media)	CFU/100mL	1	-	-	0	5
E coli (DC Media)	CFU/100mL	1	-	-	0	0
Background (DC Media)	CFU/100mL	1	-	-	>200	-
Turbidity (Wellhead)	NTU	0.1	19.2	3.63	-	5
Turbidity (Laboratory)	NTU	0.1	9.2	1.5	3.5	5
Nitrite (N)	mg/L	0.1	<0.05	<0.05	<0.05	1
Nitrate (N)	mg/L	0.1	0.35	<0.05	0.11	10
Fluoride	mg/L	0.1	1.3	**3.2**	**2.8**	2.4
Alkalinity (as $CaCO_3$)	mg/L	5	413	395	406	500^{OG}
pH @25°C	pH Units	-	8.41	8.38	8.32	$6.5 - 8.5^{OG}$
Colour	TCU	2	<2	<2	<2	5^{OG}
Chloride	mg/L	0.5	33.5	20.4	19.9	250^{AO}
Sulphate	mg/L	1	41	37	37	500^{AO}
Dissolved Organic Carbon	mg/L	0.2	4.1	-	3.2	5^{AO}
Sulphide	Mg/L	0.08	-	-	<0.08	0.05^{AO}
Hardness (as $CaCO_3$)	mg/L	1	42.4	-	40.5	100^{OG}
Iron	mg/L	0.005	0.169	-	0.092	0.3^{AO}
Magnesium	mg/L	0.02	5.28	-	5.06	-
Manganese	mg/L	0.001	0.002	-	0.002	0.05^{AO}
Sodium	mg/L	0.2	**206**	-	190	200^{AO}
Lead	mg/L	0.00002	0.00056	-	0.00011	0.01

OG – Operational Guidelines AO – Aesthetic Objectives



GREER GALLOWAY
a division of Jp2g Consultants Inc.
PETERBOROUGH
BELLEVILLE
KINGSTON
1620 WALLBRIDGE LOYALIST ROAD
BELLEVILLE, ONTARIO, K8N 4Z5
PHONE: 613-966-3068
FAX: 613-966-3067

NOTES:

1) Base drawing and information: obtained from Ontario.ca – Make A Topographic Map

Key Plan:

LEGEND:

- Proposed Retained lot
- Proposed Severed lot

25-6083A – 2544 CR 13 MILFORD HYDRO G
HYDROGEOLOGICAL ASSESSMENT
2544 COUNTY ROAD 13
MILFORD, ONTARIO

FIGURE 1:

SITE PLAN SHOWING PROJECT LOCATION

GREER GALLOWAY
a division of Jp2g Consultants Inc.
PETERBOROUGH
BELLEVILLE
KINGSTON
1620 WALLBRIDGE LOYALIST ROAD
BELLEVILLE, ONTARIO, K8N 4Z5
PHONE: 613-966-3068
FAX: 613-966-3087

NOTES:

1) Base drawing and information: obtained from Ontario.ca –Make A Topographic Map
2) Approximate location of neighbouring wells and septic beds collected during neighbour questionnaire

LEGEND:

- Property boundary
- Test Well
- Monitoring Well
- Surveyed/ Not monitored
- Class 4 Septic Bed
- MECP Database Well Record
- Test Pit

25-6083A – 2544 CR 13 MILFORD HYDRO G
HYDROGEOLOGICAL ASSESSMENT
2544 COUNTY ROAD 13
MILFORD, ONTARIO

FIGURE 2:

NEIGHBOUR WELLS AND SEPTIC SYSTEMS

Appendix A

Well Records

Ontario — Ministry of the Environment, Conservation and Parks

Well Tag No. (Place Sticker and/or Print Below) A433451 Tag#:A433451

Well Record

Regulation 903 Ontario Water Resources Act

Measurements recorded in: ☐ Metric ☐ Imperial

Page _____ of _____

Well Owner's Information

First Name	Last Name/Organization	E-mail Address	☐ Well Constructed by Well Owner
Todd & Gillian	Taylor		

Mailing Address (Street Number/Name)	Municipality	Province	Postal Code	Telephone No. (inc. area code)
2535 County RD. 13	Picton	Ontario	K0K 2T0	

Well Location

Address of Well Location (Street Number/Name)	Township	Lot	Concession
2544 County RD. 13	South Marysburg	Pt. 9	R.P.E.B.

County/District/Municipality	City/Town/Village	Province	Postal Code
Prince Edward	Prince Edward	Ontario	

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD	8 3	18 336665	4863994		

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	Loam		Loose	0	1
Grey	Limestone		Broken	1	5
Grey	Limestone		Hard	5	75

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m^3/ft^3)
0	9	Bentonite	4.0

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	9

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	Gas	Other, specify
19	☐ Fresh ☒ Untested	☐	
70	☐ Fresh ☐ Untested	☐	
	☐ Fresh ☐ Untested	☐	

Hole Diameter

Depth (m/ft) From	Depth (m/ft) To	Diameter (cm/in)
0	9	10"
9	75	6"

Well Contractor and Well Technician Information

Business Name of Well Contractor	Well Contractor's Licence No.
Chalk Well Drilling Ltd.	1507

Business Address (Street Number/Name)	Municipality
31 Johnsons Side Rd.	Napanee

Province	Postal Code	Business E-mail Address
Ontario	K7R 3L1	chalkwel@kos.net

Bus Telephone No. (inc. area code)	Name of Well Technician (Last Name, First Name)
613-388-2809	Chalk, Kevin

Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted
06277		2025/10/27

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): 72

Pumping rate (l/min / GPM): 4 gpm

Duration of pumping: 1 hrs + 0 min

Final water level end of pumping (m/ft): 62.0

If flowing give rate (l/min/GPM)

Recommended pump depth (m/ft): 72

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

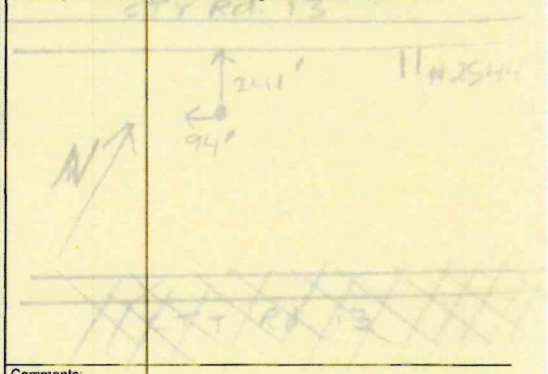
Well production (l/min/GPM): 5 gpm

Disinfected? ☒ Yes ☐ No

	Draw Down Time (min)	Draw Down Water Level (m/ft)	Recovery Time (min)	Recovery Water Level (m/ft)
Static Level		14.8		
1	1	20.0	1	59.0
2	2	20.3	2	57.0
3	3	20.3	3	55.0
4	4	21.3	4	52.4
5	5	22.3	5	51.0
10	10	25.8	10	44.5
15	15	29.3	15	39.0
20	20	32.8	20	34.5
25	25	37.0	25	29.0
30	30	41.0	30	25.6
40	40	48.0	40	21.3
50	50	61.0	50	20.3
60	60	62.0	60	19.8

Map of Well Location

Please provide a map below following instructions on the back.



Comments:

Well owner's information package delivered	Date Package Delivered	Ministry Use Only
☐ Yes ☐ No		Audit No. Z454341
	Date Work Completed: 2025/10/21	Received

 © King's Printer for Ontario, 2023

Contractor's Copy

Ontario — Ministry of the Environment, Conservation and Parks

Well Tag No. (Place Sticker and/or Print Below) A433451

Well Record

Regulation 903 Ontario Water Resources Act

Measurements recorded in: ☐ Metric ☐ Imperial

Page _____ of _____

Well Owner's Information

First Name	Last Name/Organization	E-mail Address	☐ Well Constructed by Well Owner
Todd & Gillian	Taylor		

Mailing Address (Street Number/Name)	Municipality	Province	Postal Code	Telephone No. (inc. area code)
2535 County Rd. 13	Picton	Ontario	K0K 2T0	

Well Location

Address of Well Location (Street Number/Name)	Township	Lot	Concession
2544 County Rd. 13	South Marysburg	Pt. 9	P.P.E.R.

County/District/Municipality	City/Town/Village	Province	Postal Code
Prince Edward	Prince Edward	Ontario	

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD	8 3	32[illegible]65	4853094		

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
			Well Recased		

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m^3/ft^3)
17	0	Bentonite	7.0

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	17

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

Hole Diameter

Depth (m/ft) From	To	Diameter (cm/in)
0	17	10"
17	75	6"

Well Contractor and Well Technician Information

Business Name of Well Contractor	Well Contractor's Licence No.
Chalk Well Drilling Ltd.	15017

Business Address (Street Number/Name)	Municipality
31 Johnsons Side Rd.	Napanee

Province	Postal Code	Business E-mail Address
Ontario	K7R 3L4	chalkwel kos.net

Bus. Telephone No. (inc. area code)	Name of Well Technician (Last Name, First Name)
613 388-2409	Chalk, Kevin

Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted
[illegible]	[signature]	2026/06/02

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)

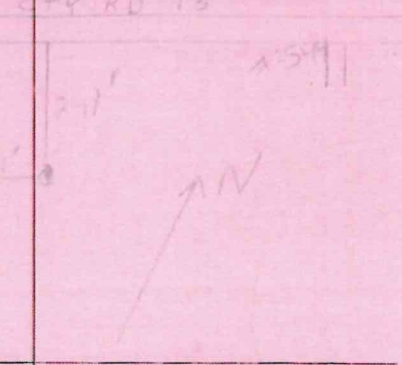
Well production (l/min/GPM) 5 gpm

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:

Well owner's information package delivered ☐ Yes ☐ No

Date Package Delivered

Date Work Completed

Ministry Use Only

Audit No. Z 462060

Received

0506E (2023/09) © King's Printer for Ontario, 2023

Well Owner's Copy

Ontario (https://www.ontario.ca/page/government-ontario)

Map: Well records

This map allows you to search and view well record information from reported wells in Ontario.

Full dataset is available in the Open Data catalogue (https://data.ontario.ca/dataset/well-records) .

Go Back to Map

Well ID

Well ID Number: 5302495
Well Audit Number:
Well Tag Number:
This table contains information from the original well record and any subsequent updates.

Well Location

Address of Well Location	
Township	SOUTH MARYSBURGH TOWNSHIP

Lot	010
Concession	RPEB
County/District/Municipality	PRINCE EDWARD
City/Town/Village	
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 18 Easting: 336439.90 Northing: 4863981.00
Municipal Plan and Sublot Number	
Other	

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
BRWN	CLAY	GRVL	STNS	0 ft	9 ft

GREY	LMSN			9 ft	65 ft

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed

Method of Construction & Well Use

Method of Construction	Well Use
Rotary (Air)	
	Domestic

Status of Well

Water Supply

Construction Record - Casing

Inside Diameter	Open Hole or material	Depth From	Depth To

8 inch	STEEL		10 ft
8 inch	OPEN HOLE		65 ft

Construction Record - Screen

Outside Diameter	Material	Depth From	Depth To

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 3516

Results of Well Yield Testing

After test of well yield, water was	CLEAR
If pumping discontinued, give reason	
Pump intake set at	
Pumping Rate	15 GPM
Duration of Pumping	0 h:30 m

Final water level	55 ft
If flowing give rate	
Recommended pump depth	62 ft
Recommended pump rate	5 GPM
Well Production	PUMP
Disinfected?	

Draw Down & Recovery

Draw Down Time(min)	Draw Down Water level	Recovery Time(min)	Recovery Water level
SWL	10 ft		
1		1	
2		2	
3		3	
4		4	
5		5	
10		10	
15		15	10 ft
20		20	
25		25	
30		30	10 ft
40		40	
45		45	10 ft
50		50	
60		60	10 ft

Water Details

Water Found at Depth	Kind
58 ft	Fresh

Hole Diameter

Depth From	Depth To	Diameter

Audit Number:

Date Well Completed: July 29, 1972

Date Well Record Received by MOE: September 26, 1972

Related

How to use a Ministry of the Environment map (https://www.ontario.ca/page/how-use-ministry-environment-map#wells)

Technical documentation: Metadata record (https://data.ontario.ca/dataset/well-records/resource/3031344e-e3f2-48d5-888c-c1deadfd2f77)

Updated: January 10, 2024
Published: March 20, 2014

25

UTM 18 313675 E
Prince Edward Bay Road
18 4864033 N

Elev. 5[illegible] R 0250

Basin 24 Prince Ed.

County or District ... Township, Village, Town or City S. Marys Burg

Con. Road Pr. Ed. Bay Lot 9 Date completed 9 (day) Aug (month) 61 (year)

[redacted] Address Picton

30 N 14th

GROUND WATER BRANCH
OCT 30 1961
No. 793
ONTARIO WATER RESOURCES COMMISSION

The Ontario Water Resources Commission Act

WATER WELL RECORD

Casing and Screen Record

Inside diameter of casing: 6"
Total length of casing: 18'
Type of screen: —
Length of screen: —
Depth to top of screen: —
Diameter of finished hole: 6"

Pumping Test

Static level: 12
Test-pumping rate: 30 G.P.M.
Pumping level: 18
Duration of test pumping: 1/2 HR
Water clear or cloudy at end of test: CLEAR
Recommended pumping rate: 5 G.P.M.
with pump setting of: 33 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	18		
GREY LIMESTONE	18	35	30	FRESH

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

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

Drilling or Boring Firm: A & R Bolston

Address: Bloomfield

Licence Number: 298

Name of Driller or Borer: Basil Bolston

Address:

Date: Sept 27/61

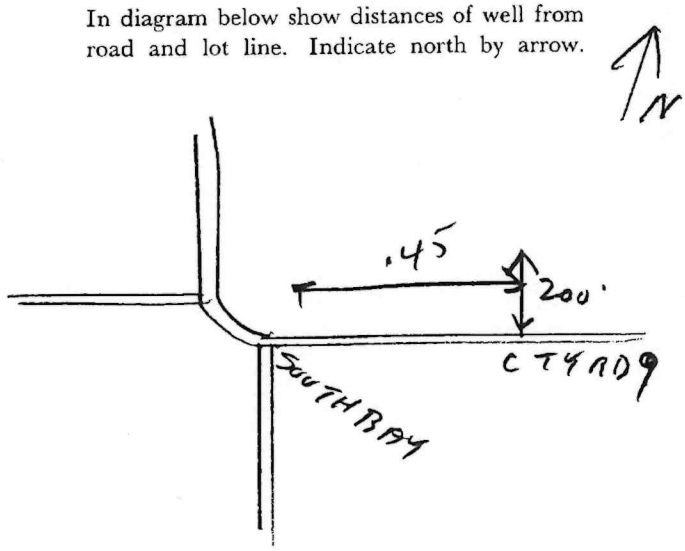
(Signature of Licensed Drilling or Boring Contractor)

Form 7 15M Sets 60-5930

OWRC COPY

Location of Well

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



UTM [illegible] E
Lot 15 R 4816316812 N
Elev. 514 R 012611

30N 14h

GROUND WATER BRANCH
53 No. 1794
OCT 29 1962
ONTARIO WATER RESOURCES COMMISSION

The Ontario Water Resources Commission Act

WATER WELL RECORD

Basin 29 | PRINCE ED
County or District

Township, Village, Town or City S. MARYSBURG

Con. ROAD P.E.BAY Lot 10

Date completed 16 (day) JULY (month) 62 (year)

[redacted] dress SYRACUSE N.Y.

Casing and Screen Record

Inside diameter of casing	6 1/4
Total length of casing	11
Type of screen	—
Length of screen	—
Depth to top of screen	—
Diameter of finished hole	6

Pumping Test

Static level	12
Test-pumping rate	1 G.P.M.
Pumping level	DRY
Duration of test pumping	1/2 HR
Water clear or cloudy at end of test	CLEAR
Recommended pumping rate	V G.P.M.
with pump setting of	43 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	6		
LIMESTONE	6	45	40	FRESH

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

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

Drilling or Boring Firm H & R ROLSTON

Address BLOOMFIELD

Licence Number 470

Name of Driller or Borer SIMME

Address

Date OCT 16/62

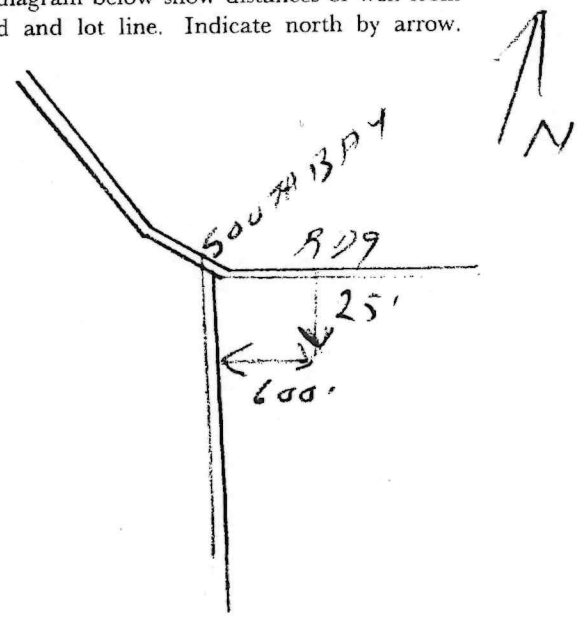
(Signature of Licensed Drilling or Boring Contractor)

Form 7 10M-62-1152

OWRC COPY

Location of Well

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



R.P.E.B Lot 9

CODED

5301985

DIVISION OF WATER RESOURCES
DEC 3 1968
ONTARIO WATER RESOURCES COMMISSION

Water management in Ontario

The Ontario Water Resources Commission Act

WATER WELL RECORD

County or District PRINCE EDWARD Township, ~~Village, Town or City~~ SOUTH MARKSBURG

Con. R.P.E.B. Lot 9 Date completed 22 (day) 9 (month) 68 (year)

[redacted] Address RR3 PICTON

Casing and Screen Record

Inside diameter of casing [redacted]

Total length of casing 12½'

Type of screen

Length of screen

Depth to top of screen

Diameter of finished hole 6¼"

Pumping Test

Static level 12'

Test-pumping rate 5 G.P.M.

Pumping level 28'

Duration of test pumping 30 MIN

Water clear or cloudy at end of test CLEAR

Recommended pumping rate 1½ G.P.M.

with pump setting of 35' 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	12	33'	FRESH
LIMESTONE	12	38		

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

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

Drilling or Boring Firm RALPH POLSTON

Address BLOOMFIELD ONT

Licence Number 2955

Name of Driller or Borer SAME

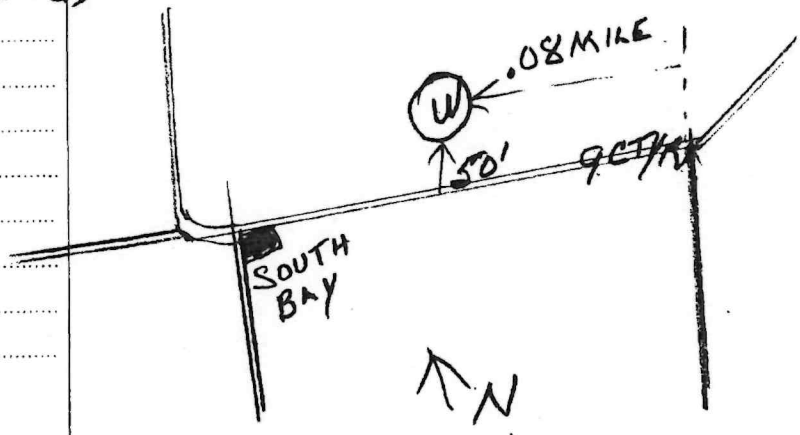
Address

Date 5/11/68

Ralph Polston
(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
OWRC COPY

MINISTRY OF THE ENVIRONMENT

The Ontario Water Resources Act

WATER WELL RECORD

30N/14E

Ontario

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

11 | 5302934 | MUNICIP 53006 | CON. R. 1 EB

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON., BLOCK, TRACT, SURVEY, ETC.	LOT
PRINCE EDWARD	S Marysburgh	Round Prince Edward Bay RPEB	010

[redacted] DYSON RD. PICKERING ONT

DATE COMPLETED: DAY 24 MO. 05 YR. 74

UTM: 363700 | RC. 4 | ELEVATION 0262 | RC. 4 | 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	clay	gravel	packed	0	4
Grey	limestone		layered	4	70

31 | 0004600511179 | 0070211574

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0066	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
08"	1 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	.188	0	0010
08"	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☒ OPEN HOLE		10	0070
	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 GPM.	DURATION OF PUMPING HOURS	MINS.
1 ☒ PUMP 2 ☐ BAILER	0006	01	00

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
014 FEET	070 FEET	1 ☐ PUMPING 2 ☑ RECOVERY	040 FEET	018 FEET	014 FEET	014 FEET

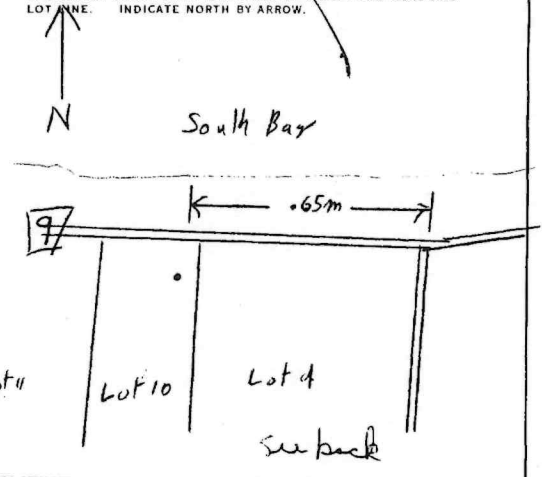
IF FLOWING GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST
GPM	FEET	1 ☑ CLEAR 2 ☐ CLOUDY

RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING	RECOMMENDED PUMPING RATE
☐ SHALLOW ☑ DEEP	067 FEET	0006 GPM.

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 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 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 McClennon | LICENCE NUMBER:

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

OWRC

OFFICE USE ONLY

DATA SOURCE 1 | CONTRACTOR 3516 | DATE RECEIVED 280175

DATE OF INSPECTION | INSPECTOR

REMARKS: P Th. WI

MINISTRY OF THE ENVIRONMENT COPY

FORM 7 07-091

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 — 5305661 — MUNICIP 53006 — CON. RPEB

COUNTY OR DISTRICT: PRINCE EDWARD
TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: SOUTH MARYSBURG
CON., BLOCK, TRACT, SURVEY, ETC: RPEB
LOT: PART 9
[redacted] R. #3 PICTON K0K2T0
DATE COMPLETED: DAY 12 MO 09 YR 91

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	STONES	SOFT	0	4.5
BROWN	SHALE		DENSE	4.5	6
GREY	LIMESTONE		HARD	4.5	25

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
14	1 ☒ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS
19	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
8	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☒ OPEN HOLE 5 ☐ PLASTIC	1	0	12
6 1/4	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE 5 ☐ PLASTIC	.188	0	12
6 1/8	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☒ OPEN HOLE 5 ☐ PLASTIC		12	25

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.)
0	12	CEMENT GROUT

71 PUMPING TEST

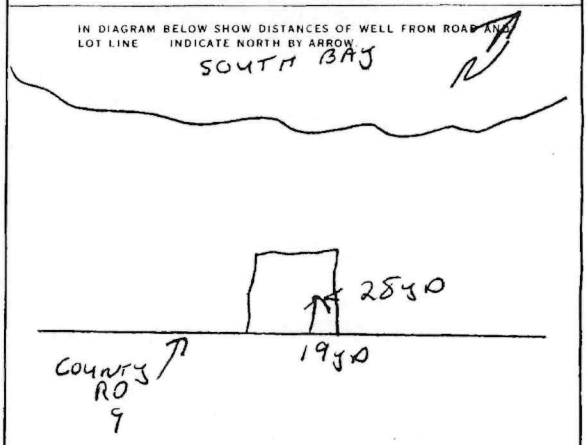
PUMPING TEST METHOD: 1 ☐ PUMP 2 ☒ BAILER
PUMPING RATE: 20 GPM
DURATION OF PUMPING: 1 HOURS 20 MINS
STATIC LEVEL: 10 FEET
WATER LEVEL END OF PUMPING: 10 FEET
WATER LEVELS DURING: 1 ☒ PUMPING 2 ☐ RECOVERY

15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
10 FEET	10 FEET	10 FEET	10 FEET

IF FLOWING GIVE RATE: GPM
PUMP INTAKE SET AT: 20 FEET
WATER AT END OF TEST: 1 ☐ CLEAR 2 ☒ CLOUDY
RECOMMENDED PUMP TYPE: ☒ SHALLOW ☐ DEEP
RECOMMENDED PUMP SETTING: 20 FEET
RECOMMENDED PUMPING RATE: 20 GPM

LOCATION OF WELL

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



DRILLERS REMARKS: 101877

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: Glenden McKee — PRINCE EDWARD — WELL CONTRACTOR'S LICENCE NUMBER: WELL DRILLERS 6005
ADDRESS: BOX 3 Milford Ont K0K2P0
NAME OF WELL TECHNICIAN: Ross Branson — WELL TECHNICIAN'S LICENCE NUMBER: 621
SIGNATURE OF TECHNICIAN/CONTRACTOR: Ross Branson
SUBMISSION DATE: DAY 16 MO 09 YR 91

OFFICE USE ONLY

DATA SOURCE | CONTRACTOR: 6005 | DATE RECEIVED: OCT 23 1991
DATE OF INSPECTION | INSPECTOR
REMARKS

CSS.RS

MINISTRY OF THE ENVIRONMENT COPY

FORM NO. 0506 (11/86) FORM 9

Ministry of Environment and Energy
Ontario

The Ontario Water Resources Act
WATER WELL RECORD

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

11 — 5306495 — Municipality: 53006 — Con.: RPEB

County or District: PRINCE EDWARD
Township/Borough/City/Town/Village: SOUTH MARYSBURG
Con block tract survey, etc.: RPEB
Lot: PART 9
Address: 149 NORTH CLIFFE BLVD TORONTO ONT M6E 3K5
Date completed: 25 day 09 month 98 year 98
Northing / 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	SAND	SHALE STONES	DENSE	0	4
BROWN	SHALE		LAYERED	4	6
GREY	LIMESTONE		HARD	6	47

41 WATER RECORD

Water found at – feet	Kind of water
14	1 [X] 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
8	1 [ ] Steel 2 [ ] Galvanized 3 [ ] Concrete 4 [X] Open hole 5 [ ] Plastic		0	10
6 1/4	1 [X] Steel 2 [ ] Galvanized 3 [ ] Concrete 4 [ ] Open hole 5 [ ] Plastic	188	0	10
6 5/8	1 [ ] Steel 2 [ ] Galvanized 3 [ ] Concrete 4 [X] Open hole 5 [ ] Plastic		10	47

SCREEN

Sizes of opening (Slot No.)	Diameter inches	Length feet	Material and type	Depth at top of screen feet

61 PLUGGING & SEALING RECORD

[X] Annular space [ ] Abandonment

Depth set at – feet From	Depth set at – feet To	Material and type (Cement grout, bentonite, etc.)
0	10	CEMENT GROUT

71 PUMPING TEST

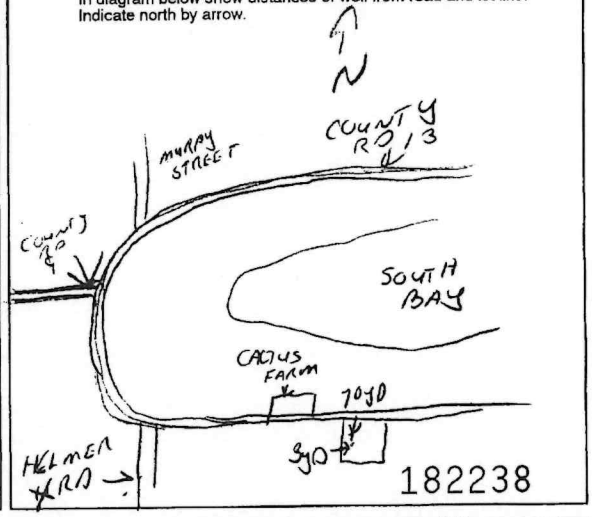
Pumping test method: 1 [ ] Pump 2 [X] Bailer
Pumping rate: 3.5 GPM
Duration of pumping: Hours ..... Mins

Static level	Water level end of pumping	Water levels during: 1 [X] Pumping 2 [ ] Recovery			
		15 minutes	30 minutes	45 minutes	60 minutes
12 feet	12 feet	16 feet	12 feet	12 feet	12 feet

If flowing give rate: GPM
Pump intake set at: 42 feet
Water at end of test: [ ] Clear [X] Cloudy
Recommended pump type: [ ] Shallow [X] Deep
Recommended pump setting: 42 feet
Recommended pump rate: 3.5 GPM

LOCATION OF WELL

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



FINAL STATUS OF WELL

1 [X] 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 [X] Domestic 2 [ ] Stock 3 [ ] Irrigation 4 [ ] Industrial
5 [ ] Commercial 6 [ ] Municipal 7 [ ] Public supply 8 [ ] Cooling & air conditioning
9 [ ] Not used 10 [ ] Other .....

METHOD OF CONSTRUCTION

1 [X] 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: PRINCE EDWARD WELL DRILLERS
Well Contractor's Licence No.: 6005
Address: RR3 PICTON K0K2T0
Name of Well Technician: Ron Bronson
Well Technician's Licence No.: 611
Signature of Technician/Contractor: Ron Bronson
Submission date: day 28 mo 09 yr 98

MINISTRY USE ONLY

Data source: 58
Contractor: 6005
Date received: NOV 0 2 1998
Date of Inspection:
Inspector:
Remarks: CSS. ES9

0506 (07/94) Front Form 9

2 - MINISTRY OF ENVIRONMENT & ENERGY COPY

Ontario Ministry of the Environment

Well Tag No. (Sticker or Plate Number below) A 003696

A003696

Well Record

Regulation 903 Ontario Water Resources Act

page ___ of ___

Instructions for Completing Form

- For use in the **Province of Ontario** only. This document is a permanent **legal** document. Please retain for future reference.
- All Sections **must** be completed in full to avoid delays in processing. Further instructions and explanations are available on the back of this form.
- Questions regarding completing this application can be directed to the Water Well Management Coordinator at 416-235-6203.
- **All metre measurements shall be reported to 1/10th of a metre.**
- Please print clearly in blue or black ink only.

Ministry Use Only

MUN 53006 CON LOT

Well Owner's Information and Location of Well Information

[redacted]

PRINCE EDWARD COUNTY — SOUTH MARYSBURGH — 10 — COUNTY RD. 13

RR#/Street Number/Name: COUNTY ROAD 13 — City/Town/Village — Site/Compartment/Block/Tract etc.

GPS Reading: NAD 8 3 — Zone 18 — Easting 0336447 — Northing 4864059 — Unit Make/Model: Garmin/Etrex — Mode of Operation: ☐ Undifferentiated ☐ Differentiated, specify ☑ Averaged — ATM

Log of Overburden and Bedrock Materials (see instructions)

General Colour	Most common material	Other Materials	General Description	Depth From	Depth To
Brown	Top Soil		Soft	0	.5
Brown	Clay	Stones	Dense	.5	2.7
Grey	Limestone		Layered	2.7	5.2

Hole Diameter

Depth From	Depth To (Metres)	Diameter (Centimetres)

Water Record

Water found at ___ Metres / Kind of Water

- ___ m: ☐ Fresh ☐ Sulphur ☐ Gas ☐ Salty ☐ Minerals ☐ Other:
- ___ m: ☐ Fresh ☐ Sulphur ☐ Gas ☐ Salty ☐ Minerals ☐ Other:
- ___ m: ☐ Fresh ☐ Sulphur ☐ Gas ☐ Salty ☐ Minerals ☐ Other:

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

Chlorinated ☑ Yes ☐ No

Construction Record

Inside diam centimetres	Material	Wall thickness centimetres	Depth From	Depth To (Metres)
Casing				
91.4	☐ Steel ☐ Fibreglass ☐ Plastic ☑ Concrete ☐ Galvanized	10.1		
	☐ Steel ☐ Fibreglass ☐ Plastic ☐ Concrete ☐ Galvanized			
	☐ Steel ☐ Fibreglass ☐ Plastic ☐ Concrete ☐ Galvanized			
Screen				
Outside diam	☐ Steel ☐ Fibreglass ☐ Plastic ☐ Concrete ☐ Galvanized	Slot No.		
No Casing or Screen				
	☐ Open hole			

Test of Well Yield

Pumping test method: Solo.

	Draw Down Time min	Draw Down Water Level Metres	Recovery Time min	Recovery Water Level Metres
Pump intake set at - (metres) 5.2	Static Level	2.7		
Pumping rate - (litres/min) 136	1	2.8	1	4.3
Duration of pumping 1 hrs + ___ min	2	2.8	2	4.2
Final water level end of pumping 4.3 metres	3	2.9	3	4.1
Recommended pump type: ☑ Shallow ☐ Deep	4	3	4	4
Recommended pump depth. 5 metres	5	3	5	4
Recommended pump rate. 15 (litres/min)	10	3.2	10	3.5
	15	3.5	15	3.0
If flowing give rate - (litres/min)	20	3.6	20	3.0
	25	3.6	25	3.0
If pumping discontinued, give reason.	30	3.7	30	2.7
	40	4	40	2.7
	50	4.2	50	2.7
	60	4.3	60	2.7

Plugging and Sealing Record ☐ Annular space ☐ Abandonment

Depth set at - From	To	Material and type (bentonite slurry, neat cement slurry) etc.	Volume Placed (cubic metres)

Method of Construction

☐ Cable Tool ☐ Rotary (air) ☐ Diamond ☑ Digging
☐ Rotary (conventional) ☐ Air percussion ☐ Jetting ☐ Other
☐ Rotary (reverse) ☐ Boring ☐ Driving

Water Use

☑ Domestic ☐ Industrial ☐ Public Supply ☐ Other
☐ Stock ☐ Commercial ☐ Not used
☐ Irrigation ☐ Municipal ☐ Cooling & air conditioning

Final Status of Well

☑ Water Supply ☐ Recharge well ☐ Unfinished ☐ Abandoned, (Other)
☐ Observation well ☐ Abandoned, insufficient supply ☐ Dewatering
☐ Test Hole ☐ Abandoned, poor quality ☐ Replacement well

Well Contractor/Technician Information

Name of Well Contractor: RIVERSIDE PLUMBING CO LTD — Well Contractor's Licence No. 6463

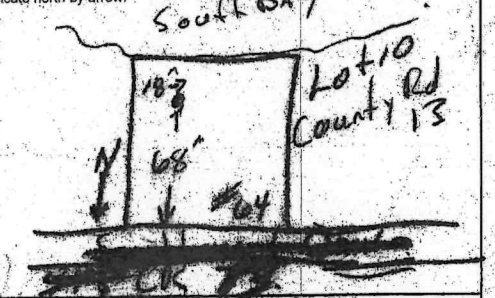
Business Address (street name, number, city etc.): 8125 HWY 62 R.R.#1 FOXBORO ONT K0K 2B0

Name of Well Technician (last name, first name): BEAUDRIE, RICK — Well Technician's Licence No. T-681

Signature of Technician/Contractor: X [signature] — Date Submitted YYYY MM DD: 2004 11 30

Location of Well

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



Audit No. Z 03790 — Date Well Completed YYYY MM DD: 2004 11 19

Was the well owner's information package delivered? ☑ Yes ☐ No — Date Delivered YYYY MM DD: 2004 11 30

Ministry Use Only

Data Source — Contractor: 6463

Date Received YYYY MM DD: DEC 09 2004 — Date of Inspection YYYY MM DD

Remarks — Well Record Number: 5307347

0506E (09/03) Contractor's Copy ☐ Ministry's Copy ☐ Well Owner's Copy ☐

Cette formule est disponible en français

Ontario Ministry of the Environment

Measurements recorded in: ☐ Metric ☑ Imperial

W A 081962 (Print Below)

A081962

Well Record

Regulation 903 Ontario Water Resources Act

Page ___ of ___

[redacted]

Well Location

Address of Well Location (Street Number/Name)	Township	Lot	Concession
CTY RD 13	SOUTH MARYSBURG	9	RP&B

County/District/Municipality	City/Town/Village	Province	Postal Code
PRINCE EDWARD		Ontario	K0K 2T0

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 83	18	336582	4916582		

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	STONES	SOFT	0	3
BROWN	SHALE		LOOSE	3	6
BROWN	SHALE		POROUS	6	10
GREY	LIMESTONE			10	50

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
0	20	QUIK GROUT	7FT3

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 1/8	STEEL	.188	0	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: Fresh	Untested	Other, specify
35	☐	☐	☑	
	☐	☐	☐	
	☐	☐	☐	

Hole Diameter

Depth (m/ft) From	To	Diameter (cm/in)
0	20	8 5/8
20	50	6 1/8

Well Contractor and Well Technician Information

Business Name of Well Contractor	Well Contractor's Licence No.
PRINCE EDWARD WELL DRILLERS	6005

Business Address (Street Number/Name)	Municipality
RR3 PICTON K0K2T0	

Province	Postal Code	Business E-mail Address
ONT	K0K2T0	

Bus. Telephone No. (inc. area code)	Name of Well Technician (Last Name, First Name)
6134765457	MCKEE GLENDON

Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted
2826	Glendon McKee	2009 09 02

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): 45'

Pumping rate (l/min / GPM): 5 GPM

Duration of pumping: 1 hrs + ___ min

Final water level end of pumping (m/ft)

If flowing give rate (l/min / GPM)

Recommended pump depth (m/ft): 45'

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

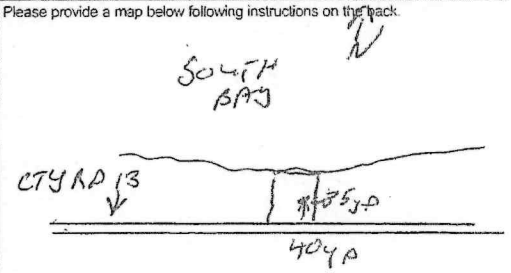
Well production (l/min / GPM): 5

Disinfected? ☑ Yes ☐ No

	Draw Down Time (min)	Draw Down Water Level (m/ft)	Recovery Time (min)	Recovery Water Level (m/ft)
Static Level		10'		24'2"
1	1	14'	1	21'2"
2	2	15'9"	2	20'3"
3	3	16'8"	3	19'
4	4	17'6"	4	18'
5	5	18'	5	17'6"
10	10	20'2"	10	16'5"
15	15	21'8"	15	15'9"
20	20	22'9"	20	15'4"
25	25	23'10"	25	15'1"
30	30	24'1"	30	14'9"
40	40	24'2"	40	14'6"
50	50	24'2"	50	14'3"
60	60	24'2"	60	14'1"

Map of Well Location

Please provide a map below following instructions on the back.



Comments:

Well owner's information package delivered	Date Package Delivered	Date Work Completed
☑ Yes ☐ No	2009 08 30	2009 09 02

Ministry Use Only

Audit No. Z 94027

SEP 22 2009

Received

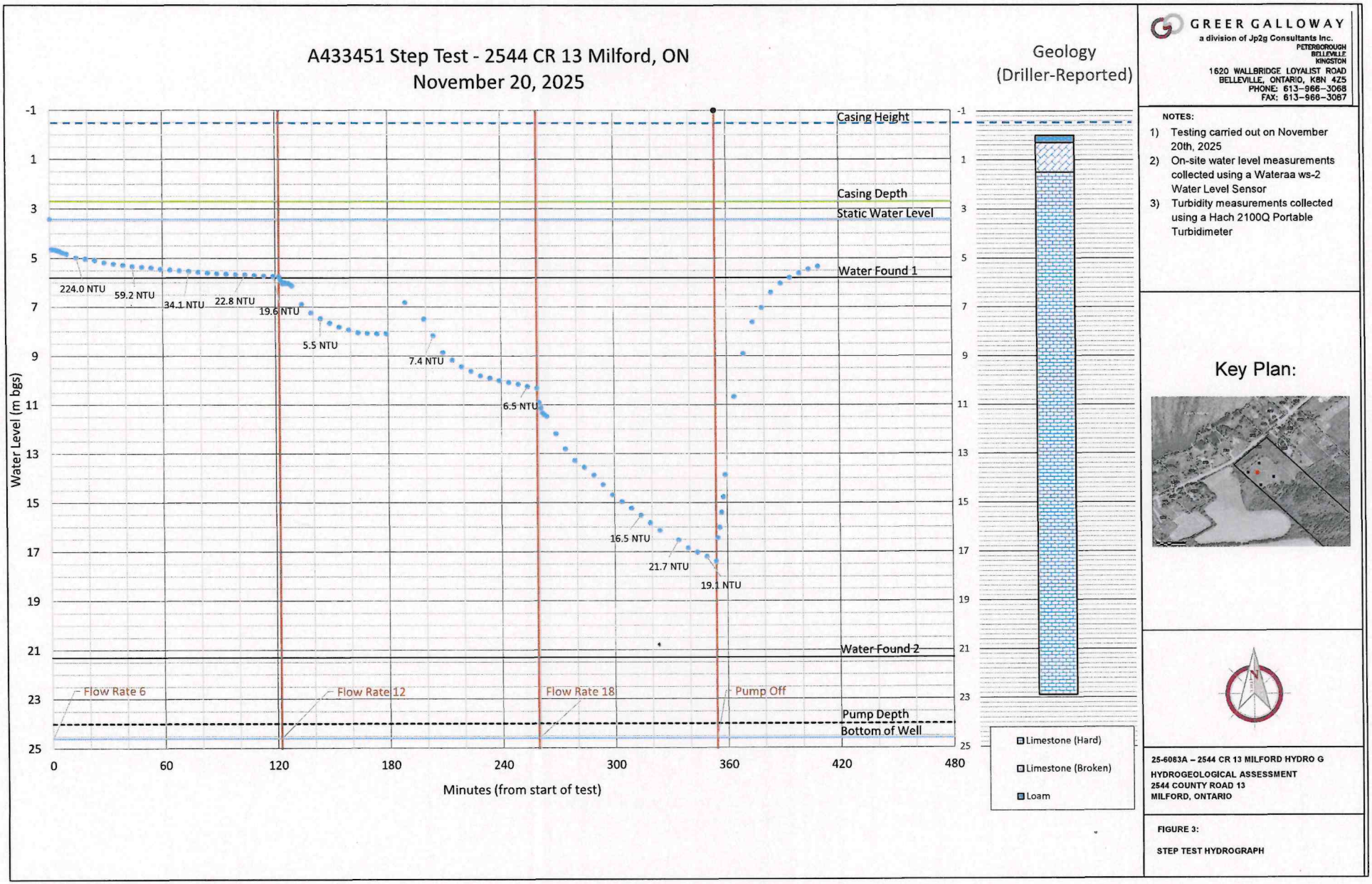
0506E (12/2007)

Ministry's Copy

© Queen's Printer for Ontario, 2007

Appendix B

Hydrographs



GREER GALLOWAY
a division of Jp2g Consultants Inc.
PETERBOROUGH
BELLEVILLE
KINGSTON
1620 WALLBRIDGE LOYALIST ROAD
BELLEVILLE, ONTARIO, K8N 4Z5
PHONE: 613-966-3068
FAX: 613-966-3067

NOTES:

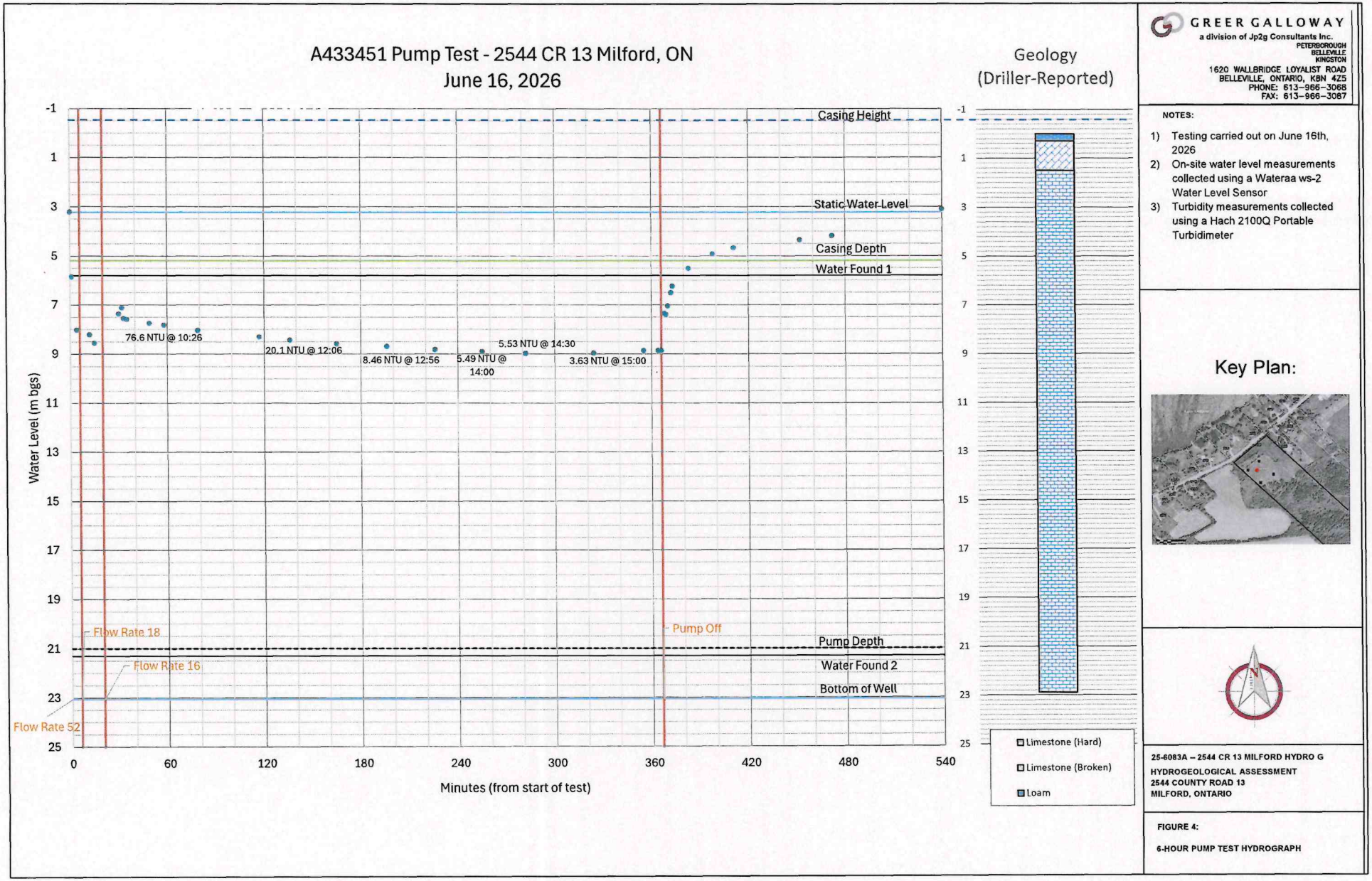
1) Testing carried out on November 20th, 2025
2) On-site water level measurements collected using a Wateraa ws-2 Water Level Sensor
3) Turbidity measurements collected using a Hach 2100Q Portable Turbidimeter

Key Plan:

25-6083A – 2544 CR 13 MILFORD HYDRO G
HYDROGEOLOGICAL ASSESSMENT
2544 COUNTY ROAD 13
MILFORD, ONTARIO

FIGURE 3:

STEP TEST HYDROGRAPH



GREER GALLOWAY
a division of Jp2g Consultants Inc.
PETERBOROUGH
BELLEVILLE
KINGSTON
1620 WALLBRIDGE LOYALIST ROAD
BELLEVILLE, ONTARIO, K8N 4Z5
PHONE: 613-966-3068
FAX: 613-966-3087

NOTES:

1) Testing carried out on June 16th, 2026
2) On-site water level measurements collected using a Wateraa ws-2 Water Level Sensor
3) Turbidity measurements collected using a Hach 2100Q Portable Turbidimeter

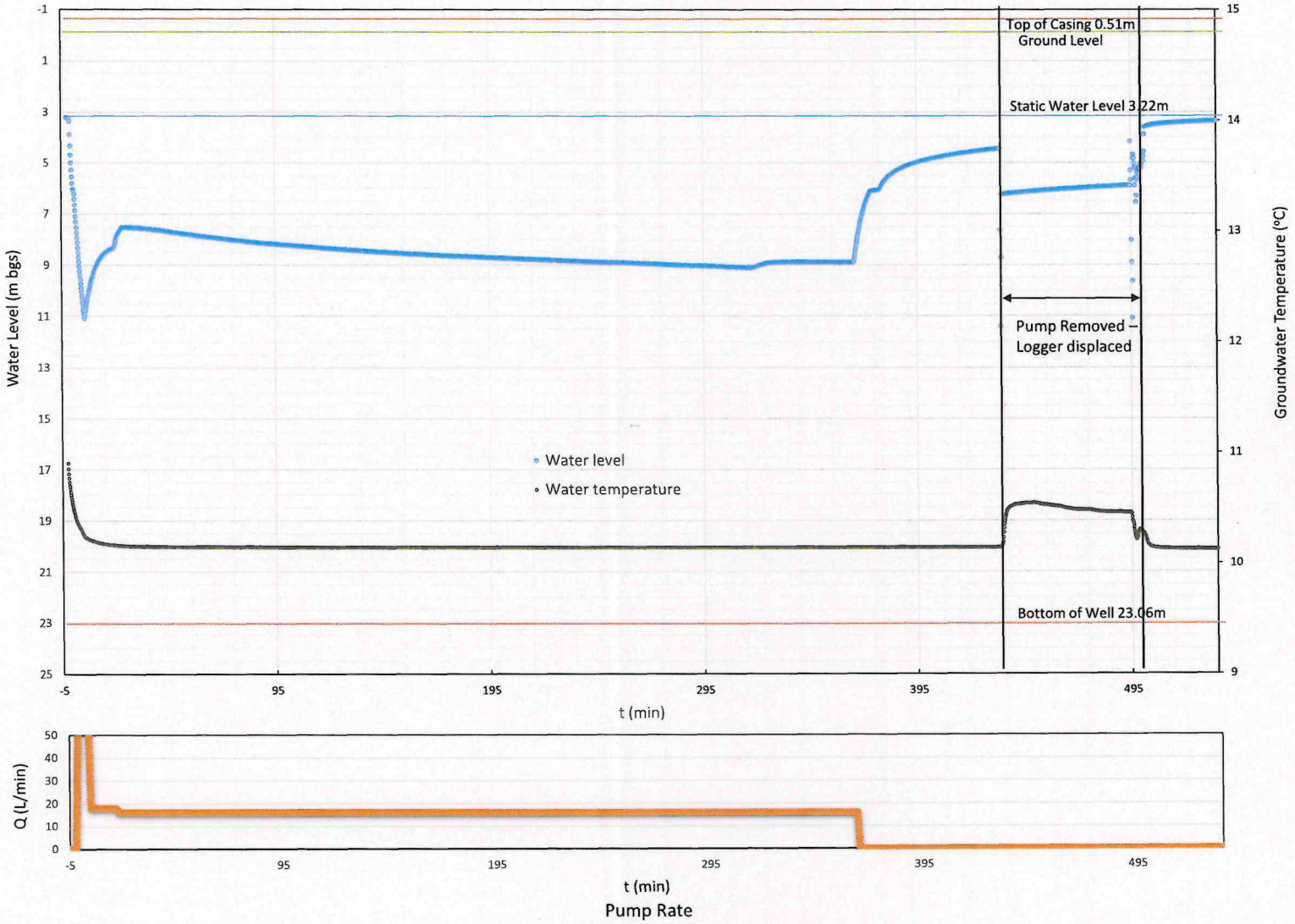
Key Plan:

25-6083A – 2544 CR 13 MILFORD HYDRO G
HYDROGEOLOGICAL ASSESSMENT
2544 COUNTY ROAD 13
MILFORD, ONTARIO

FIGURE 4:

6-HOUR PUMP TEST HYDROGRAPH

Test Well A433451 at 2544 County Road 13 June 16, 2026



GREER GALLOWAY
a division of Jp2g Consultants Inc.
PETERBOROUGH
BELLEVILLE
KINGSTON
1620 WALLBRIDGE LOYALIST ROAD
BELLEVILLE, ONTARIO, K8N 4Z5
PHONE: 613-966-3068
FAX: 613-966-3087

NOTES:

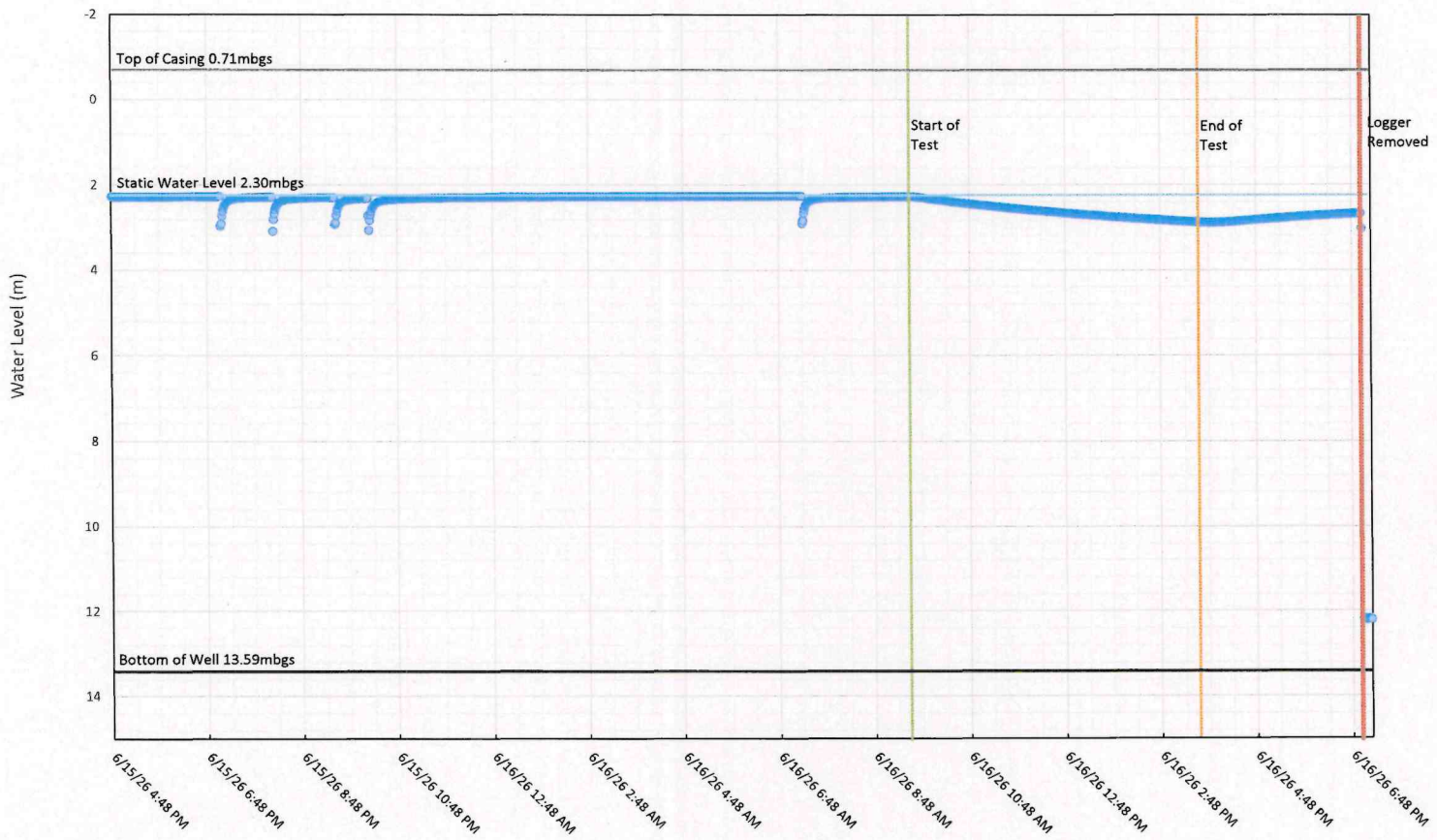
1) Testing carried out on June 16th, 2026
2) On-site pressure and temperature data collected using a Solinst Model 3001 datalogger transducer.
3) Water level data is not corrected for fluctuations in barometric pressure.

Key Plan:

25-6083A – 2544 CR 13 MILFORD HYDRO G
HYDROGEOLOGICAL ASSESSMENT
2544 COUNTY ROAD 13
MILFORD, ONTARIO

FIGURE 5:
TEST WELL – A433451 HYDROGRAPH
Logger Data

Monitoring Well 1 Water Levels from June 15th-17th, 2026



GREER GALLOWAY
a division of Jp2g Consultants Inc.
PETERBOROUGH
BELLEVILLE
KINGSTON
1620 WALLBRIDGE LOYALIST ROAD
BELLEVILLE, ONTARIO, K8N 4Z5
PHONE: 613-966-3068
FAX: 613-966-3087

NOTES:

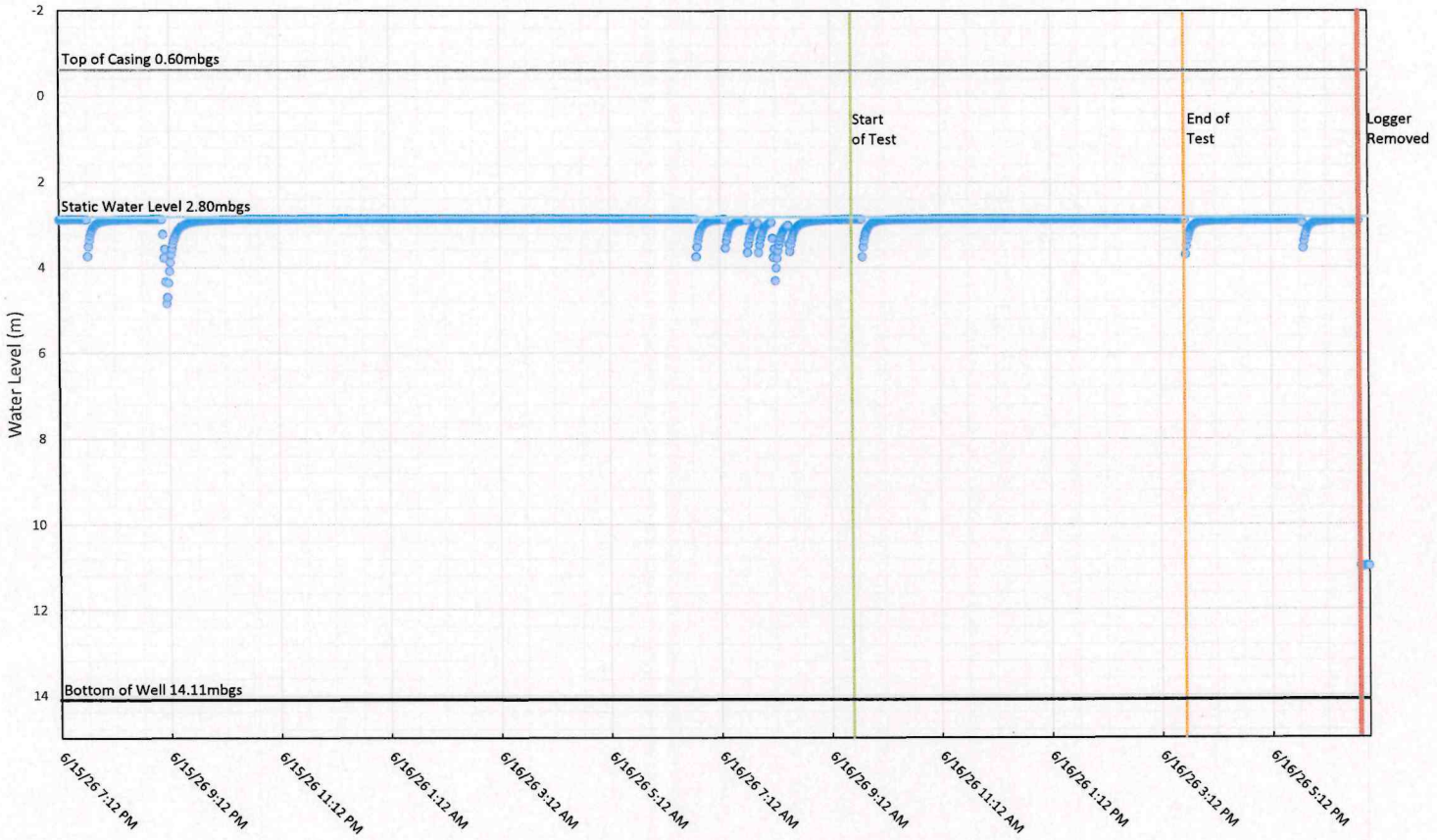
1) Testing carried out on June 16th, 2026
2) On-site pressure and temperature data collected using a Solinst Model 3001 datalogger transducer.
3) Water level data is not corrected for fluctuations in barometric pressure.

Key Plan:

25-6083A – 2544 CR 13 MILFORD HYDRO G
HYDROGEOLOGICAL ASSESSMENT
2544 COUNTY ROAD 13
MILFORD, ONTARIO

FIGURE 6:
MW1 – 2535 COUNTY ROAD 13, MILFORD
June 15 – June 16, 2026

Monitoring Well 2 Water Levels from June 15th-17th, 2026



GREER GALLOWAY
a division of Jp2g Consultants Inc.
PETERBOROUGH
BELLEVILLE
KINGSTON
1620 WALLBRIDGE LOYALIST ROAD
BELLEVILLE, ONTARIO, K8N 4Z5
PHONE: 613-966-3068
FAX: 613-966-3087

NOTES:

1) Testing carried out on June 16th, 2026
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:

25-6083A – 2544 CR 13 MILFORD HYDRO G
HYDROGEOLOGICAL ASSESSMENT
2544 COUNTY ROAD 13
MILFORD, ONTARIO

FIGURE 7:
MW2 – 2562 COUNTY ROAD 13, MILFORD
June 15 – June 16, 2026

Appendix C

Laboratory Certificate of Analysis

CADUCEON™
ENVIRONMENTAL LABORATORIES
Client committed. Quality assured. Proudly Canadian.

CERTIFICATE OF ANALYSIS

Final Report

C.O.C.: G2544CR13milford

REPORT No: 26-018314 - 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: Danielle Davidson

DATE RECEIVED: 2026-Jun-17
DATE REPORTED: 2026-Jul-02
SAMPLE MATRIX: Ground Water

CUSTOMER PROJECT: 2544 County Rd 13
P.O. NUMBER: PO#25-6083A

Analyses	Qty	Site Analyzed	Authorized	Date Analyzed	Lab Method	Reference Method
Anions (Liquid)	2	OTTAWA	LMACGREGOR	2026-Jun-22	A-IC-01	SM 4110B
Colour (Liquid)	2	OTTAWA	STAILLON	2026-Jun-22	A-COL-01	SM 2120C
Cond/pH/Alk Auto (Liquid)	2	OTTAWA	SBOUDREAU	2026-Jun-19	COND-02/PH-02/A LK-02	SM 2510B/4500H/ 2320B
Coliforms - DC Media (Liquid)	1	KINGSTON	BBURTCH	2026-Jun-18	ECTC-001	MECP E3407
DOC (Liquid)	1	OTTAWA	MMACMILLAN	2026-Jun-30	C-OC-01	EPA 415.2
ICP/MS (Liquid)	1	OTTAWA	AOZKAYMAK	2026-Jun-22	D-ICPMS-01	EPA 200.8
ICP/OES (Liquid)	1	OTTAWA	SGORMAN	2026-Jun-22	D-ICP-01	SM 3120B
Sulphide (Liquid)	1	KINGSTON	EHINCH	2026-Jun-19	H2S-001	SM 4500-S2
TP & TKN (Liquid)	1	KINGSTON	YLIEN	2026-Jun-24	TPTKN-001	MECP E3516.2
Turbidity (Liquid)	2	OTTAWA	AGRAF	2026-Jun-19	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

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.

Parameter	Units	R.L.	Client I.D.	Gen Sample	A433451
			Sample I.D.	26-018314-1	26-018314-2
			Date Collected	2026-06-16	2026-06-16
				-	-
Total Coliform (DC Media)	CFU/100mL	1			0
E coli (DC Media)	CFU/100mL	1			0
Background (DC Media)	CFU/100mL	1			>200
Alkalinity(CaCO3) to pH4.5	mg/L	5		395	406
Conductivity @25°C	uS/cm	1		903	912
pH @25°C	pH units	-		8.38	8.32
Colour	TCU	2		<2	<2
Turbidity	NTU	0.1		1.5	3.5
Fluoride	mg/L	0.1		3.2	2.8
Chloride	mg/L	0.5		20.4	19.9
Nitrate (N)	mg/L	0.05		<0.05	0.11
Nitrite (N)	mg/L	0.05		<0.05	<0.05
Sulphate	mg/L	1		37	37
Phosphorus (Total)	mg/L	0.01			0.02
Total Kjeldahl Nitrogen	mg/L	0.1			1.2
Dissolved Organic Carbon	mg/L	0.8			3.2
Sulphide	mg/L	0.01			<0.08 (3.)
Hardness (as CaCO3)	mg/L	0.02			40.5
Calcium	mg/L	0.02			7.89
Iron	mg/L	0.005			0.092
Magnesium	mg/L	0.02			5.06

M. Dubien

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.

			Client I.D.	Gen Sample	A433451
			Sample I.D.	26-018314-1	26-018314-2
			Date Collected	2026-06-16	2026-06-16
Parameter	Units	R.L.	-	-	
Manganese	mg/L	0.001		0.002	
Sodium	mg/L	0.2		190	
Lead	mg/L	0.00002		0.00011	

Comments:

3. Elevated RL due to sample matrix interferences/dilution

M. Dubien

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.

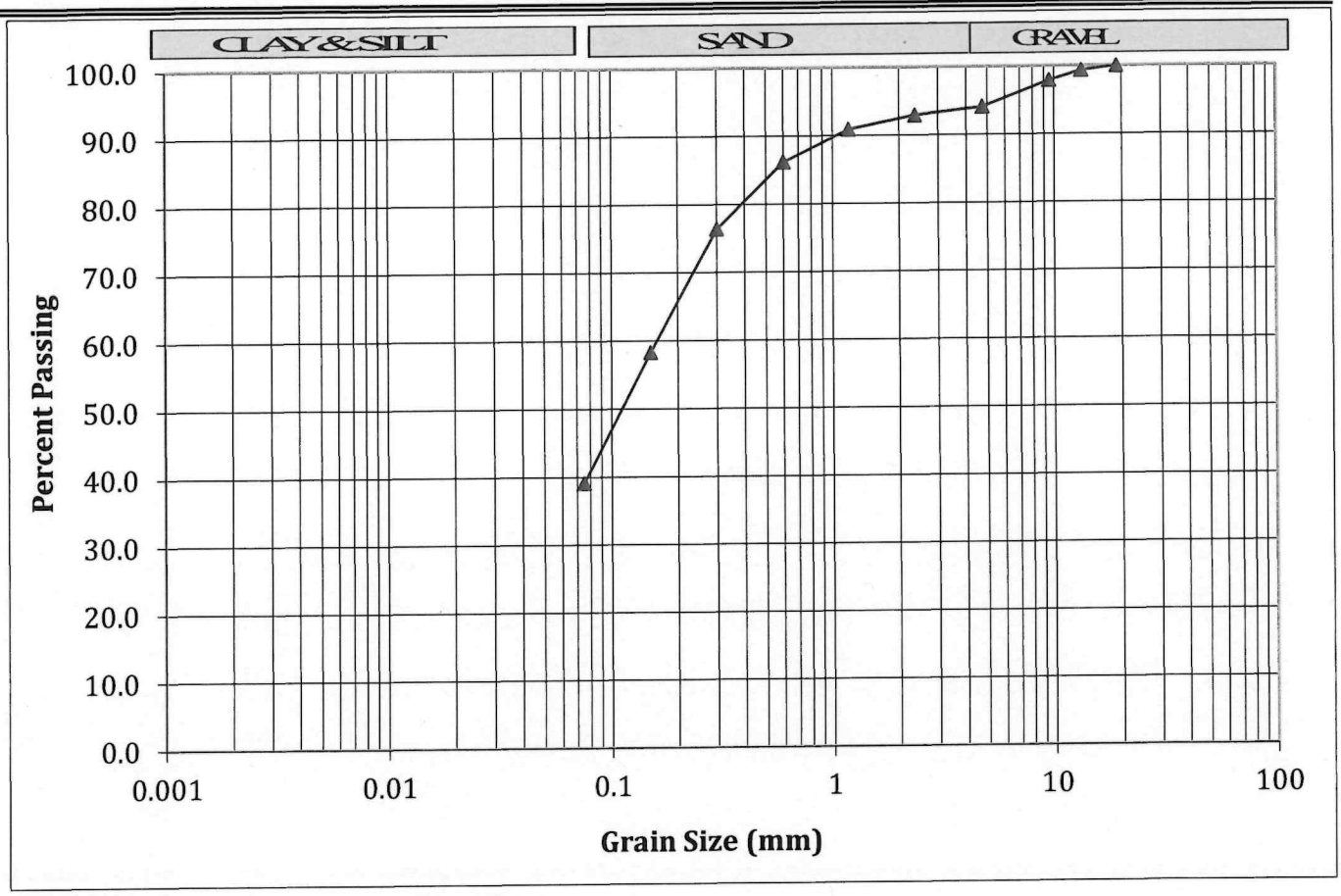
Appendix D

Grain Size Analysis

GRAIN SIZE DISTRIBUTION

CLIENT: Taylor - 2544 CR 13
DATE: 8-Aug-25
PROJECT No. 25-6083A

GREER GALLOWAY
CONSULTING ENGINEERS
Phone: 613-966-3068 Fax: 613-966-3087



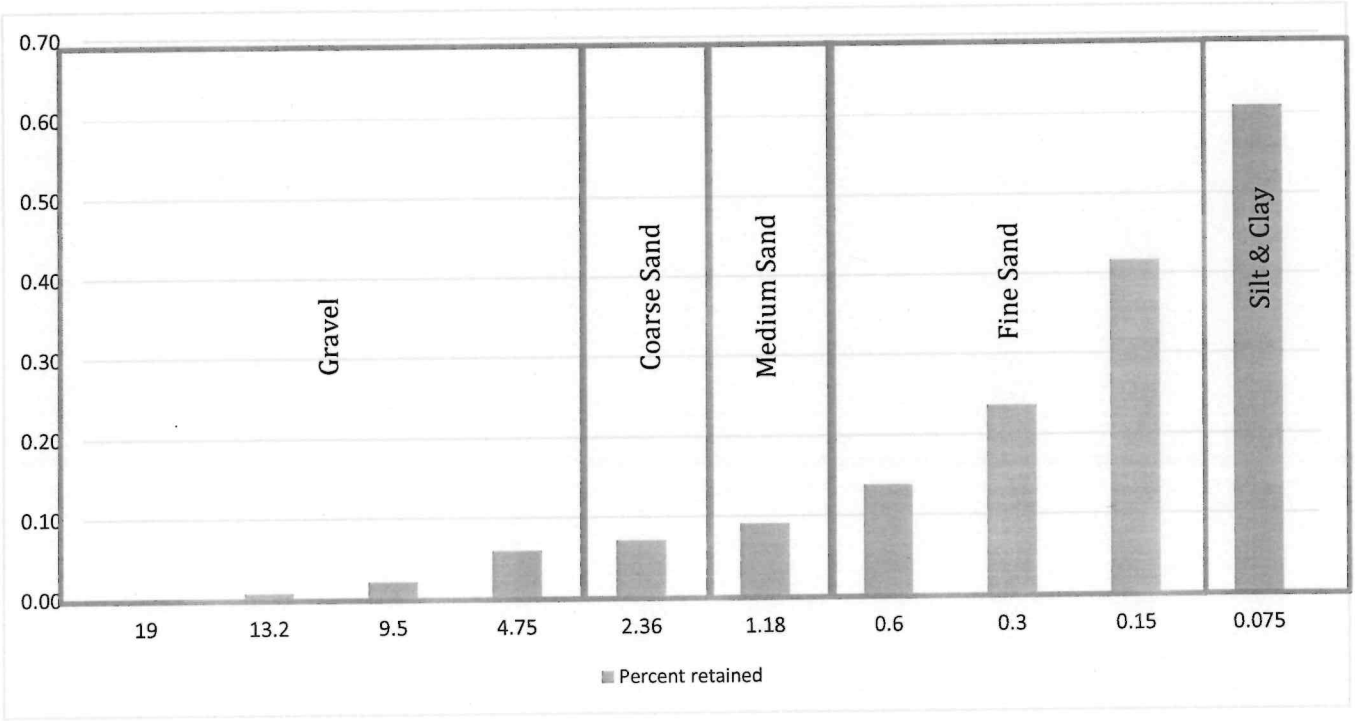
SAMPLE SITE: 2544 CR 13
SUPPLIED BY: Kirby Magee-Dittburner
SAMPLE MATRIX: Brown Silty Loam w/ Gravel
DEPTH (m): 0.25
SAMPLE No. TP3
MASS OF DRY SAMPLE (g): 100

SIEVE #	Screen Opening		Weight Recorded	Percent Passed	Percent Retained
				Sample	*Sample*
0	26.5			100	0.00
1	19		0.0	100.0	0.00
2	13.2		0.7	99.3	0.01
3	9.5		1.4	97.9	0.02
4	4.75		3.8	94.1	0.06
8	2.36		1.2	92.9	0.07
16	1.18		2.0	90.9	0.09
30	0.6		4.7	86.2	0.14
50	0.3		9.8	76.4	0.24
100	0.15		18.1	58.3	0.42
200	0.075		19.2	39.1	0.61
PAN			39.1		

GRAIN SIZE DISTRIBUTION

CLIENT: Taylor - 2544 CR 13
DATE: 8-Aug-25
PROJECT No. 25-6083A

GREER GALLOWAY
CONSULTING ENGINEERS
Phone: 613-966-3068 Fax: 613-966-3087



terraspec engineering
a division of Jp2g Consultants Inc.

973 Crawford Drive
Peterborough, Ontario
K9J 3X1

Phone: (705) 743-7880

SITE REPORT

To: Greer Galloway

1 Page

From: Shane Galloway

Re: **Grain Size Analysis**
25-6083A

Date: August 19, 2025

Test pit soil sample from August 8, 2025

	TP3	
Sieve	**% Passing**	
19.0mm	100	grain size
13.2mm	99.3	
9.50mm	97.9	
4.75mm	94.1	
2.36mm	92.9	
1.18mm	90.9	
600um	86.2	
300um	76.4	
150um	58.3	
75um	39.1	
ASTM	SM	
frost suscept:	Low	
T min/cm	23	

Appendix E

Fluoride Information Sheet

Drinking Water Safety

High levels of fluoride in drinking water

All sources of water have a natural amount of fluoride. The right amount of fluoride in drinking water helps protect against tooth decay. Drinking water includes all water used to drink or prepare drinks (including infant formula) and the water we use for cooking.

What is the standard for levels of fluoride in drinking water?

For good dental health, Health Canada recommends that drinking water has 0.7 mg/L (milligrams per litre) of fluoride. However, drinking water with too much fluoride can affect your health.

There are guidelines that set the highest level of fluoride in water that is safe for us to drink. This is called the maximum recommended level. These guidelines help protect us against possible health effects caused by too much fluoride.

- The Guidelines for Canadian Drinking Water Quality maximum recommended level for fluoride is **1.5 mg/L**. Fluoride levels higher than 1.5 mg/L may cause white spots to form on tooth enamel (called dental fluorosis) in children up to the age of 8.
- The Alberta Health Drinking Water Guideline maximum recommended level for fluoride is **2.4 mg/L**. Fluoride levels of 2.5 mg/L or higher may increase the risk of skeletal fluorosis (a condition that causes bones to break easily and causes calcium to build up in ligaments and tendons).

Depending on your age, it may be safe to drink water that has fluoride levels higher than the maximum recommended level.

Anyone can use water with fluoride levels above 1.5 mg/L for washing dishes, laundry, handwashing, and bathing since fluoride can't get through your skin.

What should I do if there are high levels of fluoride in my drinking water?

Drinking water that comes from a well may have fluoride levels that are too high. Depending on who is using the water, if your drinking water has more than 1.5 mg/L of fluoride, you may need to take steps to protect your health. Learn more about testing your drinking water in Alberta.

Level of fluoride in drinking water	For children 8 years old and younger	For people 9 years old and older
Lower than 1.5 mg/L	No action needed	No action needed
Between 1.5 mg/L and 2.4 mg/L	• Use drinking water from another source. • Lower the level of fluoride in your water to 1.5 mg/L or less.	No action needed
More than 2.4 mg/L	• Use drinking water from another source. • Lower the level of fluoride in your water to 1.5 mg/L or less.	• Use drinking water from another source. • Lower the level of fluoride in your water to 1.5 mg/L or less.

If your drinking water has too much fluoride, use drinking water from another source such as treated public water or bottled water. These water sources have fluoride levels of 1.5 mg/L or less.

You can lower the level of fluoride in your drinking water supply with:

- reverse osmosis (forcing water through a membrane that filters out minerals like fluoride)
- distillation (a system that boils water, catches the steam, and condenses it to liquid while leaving the fluoride out)

Choose equipment that is certified by NSF or the American National Standards Institute (ANSI). Follow the manufacturer's directions. Don't use pour-through or pitcher-type filters as they don't remove fluoride.

You can also combine your water supply with water from another source to lower the level of fluoride in your drinking water.

Where can I learn more?

For more information and help to lower the level of fluoride in your drinking water, contact Alberta Health Services Environmental Public Health.

Current as of: April 22, 2022

Author: Environmental Public Health, Alberta Health Services

This material is not a substitute for the advice of a qualified health professional. This material is intended for general information only and is provided on an "as is", "where is" basis. Although reasonable efforts were made to confirm the accuracy of the information, Alberta Health Services does not make any representation or warranty, express, implied or statutory, as to the accuracy, reliability, completeness, applicability or fitness for a particular purpose of such information. Alberta Health Services expressly disclaims all liability for the use of these materials, and for any claims, actions, demands or suits arising from such use.