Hydrogeological Assessment
2188 County Road 1,
Prince Edward County, ON

Prepared for:
Mr. Chris Walcott
2188 County Road 1,
Prince Edward County, ON
K0K 1G0

Prepared by:
ASC Environmental Inc.
1305 Princess St,
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File: ASC-1080 100r
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1.0 INTRODUCTION

1.1 Initiation and Objective

ASC Environmental Inc. (ASC) was retained by *Chris Walcott* (Client) to conduct a scoped hydrogeological assessment in support of a Zoning By-Law Amendment (ZBA) application to expand permitted uses to include a veterinary clinic which is to be confined to the principal building on-site at the subject property located at 2188 County Road 1, Prince Edward County, ON.

The subject property is located east of the intersection of Highway 62 and County Road 1 and encompasses an area of approximately 0.76 hectares with 140 metres of frontage along the north side of County Road 1. The property is currently improved with commercial operations consisting of Veenstra and Lloyds Plumbing Heating Cooling and Alota Tile (tiling sales), including associated storage buildings as shown on Drawing No. 1 in Appendix A.

The purpose of the scoped hydrogeological study was to assess the viability of one (1) existing dug well (TW1) to support the proposed Zoning By-Law Amendment application. The study evaluated whether groundwater quality and quantity are sufficient to support the development without adversely impacting upon existing neighbouring wells, and whether design flows would increase from the proposed veterinary clinic.

One (1) existing dug well (MECP Tag #A045715) was originally advanced on July 26, 2007, on the subject property by Drew Harrison Haulage Ltd. (Well Contractor's Licence # 7188). The existing dug well "TW1" was utilized in support of the proposed development.

1.2 Scope of Work

The agreed scope of work included the following efforts:

- Reviewing available Ministry of Environment, Conservation and Parks (MECP) well water records and historical data for the local area.
- Undertake one (1) pumping test (with recovery) on the existing dug well located on the subject property.
- Monitor water levels in available neighbouring adjacent wells during pumping.
- Collect a well water sample following zero chlorine residual and in the final hour of the pumping test.
- Submit well water samples to a certified laboratory for the required suite of parameters, as indicated in the MECP D-5-5 Procedure.
- Prepare a hydrogeological assessment, in reference with the MECP D-5-5 Guideline and The County of Prince Edward's Comprehensive Zoning By-law, as amended, including assessment of water quality, water quantity, and potential well interference in support of the proposed Zoning By-Law Amendment application.

2.0 BACKGROUND

2.1 Site Information

The subject property is an approximate 0.82-hectare parcel of land with approximately 166 metres of frontage along the north side of County Road 1 in Prince Edward County. The property is located approximately 5.0 kilometres northwest of the Village of Bloomfield. A site layout plan may be found in Drawing No. 2 in Appendix A.

The subject property is presently improved with the following buildingss:

- 1.5 storey retail commercial building (ground floor - 402.7 square metres / second floor - 94.4 square metres). This building contains two (2) commercial businesses.

- Frame shed (25.6 square metres).

- 1 storey garage (145.2 square metres).

We understand for purposes of this scoped hydrogeological study that the Zoning By-Law application is for an amendment of the existing Special Highway Commercial (CH-50) zone on the 0.82 hectare parcel to permit an Animal Hospital as a permitted main use. The Animal Hospital would be located within the principal building on-site.

At present this principal building is being used as a Tile business (West unit) and an HVAC / Plumbing business (East unit). The tile store is vacating the building and the HVAC / Plumbing business will relocate to the West unit. The proposed Animal Hospital would move into the East unit. The HVAC / Plumbing business will continue to use the detached building.

The existing water treatment distribution system servicing the existing commercial on-site operations includes disinfection (UV), reverse osmosis and water softening. The sewage system presently consists of a septic tank and in ground leaching bed, located north of the existing on-site office building.

Ground cover generally consists of parking and drive space and manicured lawn with scattered trees / shrubs across the property. Surrounding land use within a 500-metre radius consists of a mixture of commercial, rural residential, and agricultural activity.

2.2 Surficial Soil Conditions

The physiographic area is described as Limestone plains. The surficial geology consists of Paleozoic bedrock. [1]

Review of local well records showed an overburden thickness of 0.9 to 3.0 m, overlying limestone bedrock. Records reported the local overburden consisted of topsoil, clay,

[1] Chapman, L.J. and Putnam, D.F. 1972. Physiography of Southern Ontario. Map 2227.

gravel, loam, and shale.

2.3 Background Geology

Bedrock geology in the study area consists of a stratigraphic sequence of Paleozoic bedrock comprised of limestone, dolostone, shale, arkose, sandstone from the Ottawa Group; Simcoe group and Shadow Lake Formations. [2]

2.4 Local Hydrogeology

Fifteen (15) water well summary records of local wells (within a 500-metre radius of the subject property) were available for review from the MECP online database (see Appendix C). Review of the well records identified nine (9) abandoned drilled wells, five (5) drilled wells intended for domestic water supply, and one (1) drilled well intended for commercial water supply. Reported abandoned wells were due to insufficient water supply and poor quality. The completed drilled wells were advanced to depths of approximately 6.1 to 15.2 metres below ground surface (mbgs). Water was encountered at depths ranging from 3.0 to 10.7 mbgs. Copies of the well records identified in the MECP database can be seen in Appendix C.

Groundwater flow is typically through fractures and joints within the limestone bedrock. Water is typically encountered in fractures and bedding planes in the bedrock formation.

[2] Ontario Geological Survey. 1991: Bedrock Geology of Ontario, Southern Sheet. Map. 2544.

3.0 WELL CONSTRUCTION

Drew Harrison Haulage Ltd. (Well Contractor's Licence # 7188) advanced TW1 on July 26, 2007. Through correspondence with the previous property owner, ASC understands TW1 was dug for the purpose of domestic water supply in support of a historic land severance. The well location is shown in Drawing No. 2 in Appendix A and the well record is included in Appendix B.

The well record for TW1 does not include information regarding the annular space between the concrete casing and native materials. The well record for TW1 shows that the concrete casing extends to a depth of approximately 6.5 m. The well casing extends above ground surface approximately 0.54 m.

The well record for TW1 indicated topsoil from surface to 0.6 m, overlying limestone bedrock. The record further indicated TW1 was completed in the limestone bedrock at a depth of approximately 6.5 mbgs. Water was reportedly encountered at a depth of approximately 2 m in the limestone bedrock. The well record is in Appendix B.

Visual observations during field work indicated that the well was constructed and maintained to prevent surface water and other foreign materials from entering the well. The height of the casing above grade meets Ontario's Revised Regulation (RRO) 903, Wells, amended to Ontario Regulation (O Reg) 372/07, under the *Ontario Water Resources Act*. The test well location is shown on Drawing No. 2 in Appendix A.

No sources of potential contamination were evident during the site work on the subject property.

We understand that water will be supplied using either upgraded or existing submersible pump equipment. Pump installation shall be undertaken in accordance with RRO 903 (Section 17).

Copy of the test well record is attached in Appendix B.

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4.0 WATER QUANTITY

4.1 Background

ASC understands that, based on correspondence with the Client/Client representative, that for purpose of the Zoning By-Law Amendment application, that the anticipated daily flow requirements estimated using Section 8 of the Ontario Building Code (OBC) as shown in Table 1 are expected for the ZBA:

Table 1 – OBC Design Flows

Existing Building Uses	Capacity	Unit	OBC Reference	Flow Per Unit [L/day]	Total Flow per Unit (L/day)
Existing HVAC Shop and Tile Shop	4	N/A	Table 8.2.1.3.B(22)(b)	1230	4920
Existing 2nd floor HVAC offices	10	9.3 m^2	Table 8.2.1.3.B(15)(b)	75	750
Existing 1 storey storage building	1	N/A	Table 8.2.1.3.B(26)(a)	950	950
					6,620 L/day
Proposed Building Uses	**Capacity**	**Unit**	**OBC Reference**	**Flow Per Unit [L/day]**	**Total Flow per Unit (L/day)**
Proposed 1.5 storey Veterinary shop	2	N/A	Table 8.2.1.3.B(25)(a)	275	550
	6	N/A	Table 8.2.1.3.B(25)(b)	75	450
	20	N/A	Table 8.2.1.3.B(25)(c)	75	1500
Proposed 2nd floor Vet offices	10	9.3 m^2	Table 8.2.1.3.B(15)(b)	75	750
Existing 1 storey storage building	1	N/A	Table 8.2.1.3.B(26)(a)	950	950
HVAC shop moving to Tile shop (Tile shop vacating)	2	N/A	Table 8.2.1.3.B(22)(b)	1230	2460
					6,660 L/day

The quantity of groundwater available for the test well was investigated through one (1) scheduled pumping test with a target groundwater yield of approximately 16,885 Litres based on flows calculated from the proposed full commercial re-development as supplied by the Client. The pumping test was conducted in reference to MECP Procedure D-5-5 and The County of Prince Edward's Comprehensive Zoning By-law, as amended.

The pumping test for TW1 was conducted on December 9, 2025, and was undertaken for a total period of 360 minutes to assess long term well yield.

Referencing Government of Canada precipitation data (Belleville weather station), in the fourteen (14) days leading up to the pumping test, the area received approximately 16.8 mm of rainfall. On this basis, the pumping test was not undertaken during a period of heavy precipitation. Precipitation data can be found in Appendix F.

Referencing MECP D-5-5 guidelines, and the inferred design flow required for the ZBA commercial development, the test well was pumped at a stepped rate of approximately 46 lpm to 56 lpm for purposes of assessing peak demand and long term well yield.

Bedrock hydrogeological values of transmissivity were calculated from the pumping data by the Jacob method, which assumes the heterogeneous limestone bedrock aquifer is analogous to a homogeneous, confined, porous media aquifer of infinite horizontal extent. Recognizing that the limestone bedrock water bearing unit is likely unconfined, the Jacob method sufficiently estimates the aquifer parameters to assess well hydrogeological conditions.

4.2 Test Well TW1

Test well TW1 is approximately 7.09 metres deep (from top of casing). Prior to the initiation of pumping the static water level was manually measured to be approximately 2.06 metres from the top of the casing. The water in the well was pumped at a rate of 48 litres/min for a total of 90 minutes, yielding approximately 4,320 litres of water. An equipment malfunction occurred after approximately 90 minutes of continuous pumping. During equipment repair (approximately 115 minutes) well recovery of approximately 70% was noted. Following repairs, pumping was re-initiated at a rate of 56 L/min for 270 minutes, yielding approximately 15,120 litres of water. The total groundwater yield for TW1 over the duration of pumping was 19,440 litres.

Maximum drawdown was manually measured at approximately 0.66 metres over the duration of the test. At the completion of the pumping test, approximately 87% of the total well supply was remaining. Specific capacity calculated over the final 60 minutes of the pumping test was found to be approximately 466 litres/minute/metre. A plot of drawdown versus time shows a logarithmic relationship (see Figure 1 in Appendix D).

Section 4.3.1 of the Ministry of Environment, Conservation and Parks (MECP*) (previously known as the Ministry of Environment)* D-5-5 Procedure, Technical Guideline for Private Wells: Water Supply Assessment requires that water level recovery must be monitored in the test well for the lesser of 95% recovery or 24 hours. Total drawdown over the period of pumping was manually measured at approximately 0.66 m. Maximum observed recovery within the 24-hour period following pump shutdown was 83%. The test well presently supplies water to the on-site commercial structure. Following completion of the pumping test, TW1 was in-use and skewed the recovery data. Based on the minimal measured drawdown (0.66 m), well supply remaining following pump shut down (87%), and TW1's ability to recover to 83% while in-use following pump shutdown, the well is determined to be sufficiently able to meet the peak usage periods, recover and meet the daily requirement design flows for the proposed Zoning By-Law Amendment application and proposed future commercial development.

The transmissivity (T) after approximately 100 minutes of pumping was calculated to be 1.35×10^{-4} m^2/s. Hydraulic Conductivity (K = T/b), where b = 5.03 m (represents approximate aquifer thickness at time of pumping), was determined to be $K= 2.68 \times 10^{-5}$ m/s. The test well recovery and transmissivity data may be found in Appendix D.

Based on the observations from the drawdown versus time relationship, it is concluded that the long-term yield of TW1 is sufficient to meet the design flow requirements for the proposed Zoning By-Law Amendment application in reference with the MECP Procedure

D-5-5 and The County of Prince Edward's Comprehensive Zoning By-law, as amended.

Drawdown and recovery measurements obtained during the pumping test are presented in Appendix D.

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5.0 INTERFERENCE

The effects of interference were monitored during pumping of test well TW1. Neighbouring observation wells were utilized during pumping to assess potential interference. Observation well locations are shown on Drawing No. 2.

5.1 Test Well TW1

Three (3) observation wells located at 1533 Highway 62 (OW1), 2149 County Road 1 (OW2), and 1540 Highway 62 (OW3), were utilized to assess potential interference during the TW1 pumping test. The observation wells were located approximately 170, 210, and 130 metres horizontal distance from the subject test well. See Table 2 below, for observation well information.

Water levels measured in the observation wells during the TW1 pumping test did not show a significant positive response during pumping of the test well on December 9, 2025.

Table 2. Test Well – TW1 Neighbouring wells involved in hydrogeological assessment at the subject property.

Observation Well ID	Well type	Observation Well Address	Distance from Test Well (m)
OW1	Drilled	1533 Highway 62	170
OW2	Drilled	2149 County Road 1	210
OW3	Dug (Stone)	1540 Highway 62	130

5.2 Discussion of Results

No positive response was observed in the observation wells. A maximum drawdown of 0.49 m was measured in observation well OW2, located approximately 210 metres horizontal distance from the test well. ASC field staff consistently measured water level fluctuations during pumping in OW2. On this basis, ASC attributes the drawdown and recovery to homeowner water usage during pumping and potential water quantity problems resulting from mutual well interference are not expected for the test well TW1.

ASC is of the opinion that the associated measured drawdown is an appropriate estimation of the influence. Based on the observation well measurements during pumping, the adjacent domestic water supply wells will not be significantly influenced by the proposed ZBA amendment application. Copies of the residential water level measurements recorded during the pumping test are presented in Appendix D.

6.0 WATER QUALITY

A well water sample was collected from the test well on December 9, 2025, during the final hour of the pumping test and stored in a cooler with ice and transported to a Canadian Association of Laboratory Accreditation (CALA) certified laboratory in Kingston, Ontario. Chemical and bacteriological parameter analyses were undertaken in accordance with the MECP Procedure D-5-5 and compared to the Ontario Drinking Water Quality Objectives (ODWO).

Results of analyses for the test well (TW1) are presented in the following section.

6.1 Test Well TW1

Bacteriological parameter analyses exceeded the MECP Procedure D-5-5 and ODWO for Total Coliform (9 cfu/100ml) in the sample collected on December 9, 2025. ASC revisited the site on December 22, 2025, to resample TW1. Bacteriological parameters met the MECP Procedure D-5-5 and ODWO for Fecal coliform (0cfu/100ml), E. Coli (0 cfu/100ml), and Total Coliform (0 cfu/100ml) in the sample collected on December 22, 2025.

Elevated health parameter sodium was detected in the groundwater sample collected on December 9, 2025. The health-related limit for sodium is 20 mg/L and the aesthetic objective is 200 mg/L. The sample result for TW1 showed a sodium concentration of 172 mg/L. The health-related limit for sodium is a “warning level” and where this level is exceeded the local Medical Health Officer shall be notified in order to alert individuals with relevant medical conditions. The measured sodium concentration in the test well is within the aesthetic objective of 200 mg/L.

Remaining health related parameters (nitrate, nitrite and turbidity) met the MECP Procedure D-5-5 and ODWO.

The operational guideline for hardness is 80-100 mg/L and the ODWO level is 500 mg/L. Sample analyses for TW1 identified hardness of 395 mg/L. The ODWO level for Total Dissolved Solids (TDS) is 500 mg/L. The level for TDS was measured at 923 mg/L. Hardness and TDS in water usually occur when elevated concentrations of calcium, magnesium, and chlorides are present in water. Elevated concentrations of hardness and TDS may result in scale build-up and mineral deposits on hot water heaters and plumbing fixtures, corrosion or encrustation of metal fixtures or appliances. Hard water can be readily treated through ion exchange water softening.

Elevated aesthetic parameter Chloride was detected in the original sample; 384 mg/L. ASC recognizes the limit considered reasonably treatable in the D-5-5 Guideline is 250 mg/L. However, ASC understands, based on correspondence with water treatment specialists, that chloride concentrations approaching 500 mg/L may be readily treated using modern reverse osmosis systems.

To ensure safe drinking water is maintained for the existing and proposed commercial development, we recommend contracting a professional water quality specialist to review the existing drinking water treatment system (UV, softener and reverse osmosis) to confirm performance regarding treatment of health related and aesthetic parameters.

Results of laboratory sample analyses are presented in Appendix E.

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7.0 SEWAGE SYSTEM SERVICES

Referencing the letter provided by Ms. Overholt, MCIP, RPP (The County) dated November 10, 2025 indicating that if the scoped Hydrogeological Study indicates that the design flow will increase, a pump test should be completed to verify that the higher flow rate can be supported.

Based on the existing site operations, existing design flow was calculated to be 6,620 L/day. The proposed daily design flow for the proposed ZBA is calculated to be 6,660 L/day which is < 1% higher than the existing daily flow operations (see Table 1, Section 4.1). Therefore, on this basis, considering the minimal increase in design flow, nitrate attenuation calculation was not undertaken.

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8.0 CONCLUSIONS AND RECOMMENDATIONS

- Based on the results of the pumping test the unconfined limestone bedrock aquifer is able to support a sustained pumping rate of 56 liters per minute. Pumping test results and favourable recovery time following pumping of 6 hours, indicated sufficient aquifer storage and demonstrated yield is available to supply the well to meet the demand for the proposed ZBA and potential future commercial development; without adversely impacting upon neighbouring resident water supply.

- Following additional well development, bacteriological parameter analyses met the MECP Procedure D-5-5 and ODWO for Fecal Coliform (0 cfu/100ml), E. Coli (0 cfu/100ml), and Total Coliform (4 cfu/100ml) in the sample collected on December 22, 2025.

- Elevated health parameter sodium was detected in the groundwater sample collected on December 9, 2025. The health-related limit for sodium is 20 mg/L and the aesthetic objective is 200 mg/L. The sample result for TW1 showed a sodium concentration of 172 mg/L. The health-related limit for sodium is a “warning level” and where this level is exceeded the local Medical Health Officer shall be notified in order to alert individuals with relevant medical conditions. The measured sodium concentration in the test well is within the aesthetic objective of 200 mg/L.

- Remaining health related parameters (nitrate, nitrite, and turbidity) met the MECP Procedure D-5-5 and ODWO.

- Results of the groundwater sample analyses identified elevated aesthetic parameter Total Dissolved Solids (TDS) concentration of 923 mg/L. TDS is readily treatable.

- To ensure safe drinking water is maintained for the ZBA development, we recommend contracting a professional water quality specialist to review the existing drinking water treatment system (UV, softener and reverse osmosis) to confirm performance regarding treatment of health related and aesthetic parameters

- Based on results of the pumping tests and monitoring results of neighbouring residential well water supplies, water quantity problems resulting from mutual well interference is not expected.

- Based on field observation and visual inspection by ASC personnel, TW1 appears to meet the present requirements of O. Reg 903 in order to ensure continued good quality groundwater for consumption purposes.

- Surrounding land use within a 500-metre radius consists primarily of rural residential, agricultural, and commercial activity.

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- Referencing the Prince Edward County Official Plan, Commercial uses shall be permitted subject to the following criteria - ***The activity is limited to low water and low effluent producing uses and the size is capable of accommodating the use on private water and on-site private sanitary sewage treatment systems and does not have an adverse effect on neighbouring private wells.***

  Based on the minimal <1% increase in design total daily water taking, the existing well and septic system would be considered adequate to service the proposed ZBA to accommodate the proposed Animal Hospital (as a permitted use within the existing principal building) meeting the intent of the above statement .

9.0 LIMITATIONS

ASC Environmental (ASC) was retained by *Mr. Chris Walcott* (Client) to undertake a Hydrogeological Assessment in support of a Zoning By Law Amendment (ZBA) at the subject property, located at 2188 County Road 1, Prince Edward County, Ontario.

The scope of work for this hydrogeological assessment included:

- Undertaking a minimum six-hour pumping test, with recovery on the test well to assess potential long term water supply for the proposed commercial development.
- Monitoring adjacent neighbouring wells during pumping, to assess potential interference.
- Collection of well water sample, following field confirmation of zero residual chlorine and within the last hour of the pumping test.
- Submission of sample to a certified laboratory for the required suite of parameters.
- Additional well development and associated water sampling for bacteriological parameters.
- Preparation of a hydrogeological assessment report, assessing well construction, water quality and quantity, and potential interference for the proposed ZBA.

The findings reported in this document are based on the tasks completed by ASC under the mutually agreed upon scope of work. Professional judgement, experience with similar investigations, and available data collected within the scope of work form the basis for this report. ASC has prepared this report using information understood to be factual and correct and shall not be responsible for conditions arising from information or facts that were inaccurate, concealed, or not fully disclosed at the time of investigation.

ASC Environmental Inc. makes no other representations whatsoever, including those concerning the legal significance of its findings, or as to other legal matters touched on in this report, including, but not limited to, ownership of any property, or the application of any law to the facts set forth herein. With respect to regulatory compliance issues, regulatory statutes are subject to interpretation and these interpretations may change over time.

The nature of the investigation makes it possible that contrary conditions may be identified due to seasonal or meteorological changes that are beyond the control of ASC. Groundwater sampling results are current at the time of sampling only, seasonal conditions and future changes to the property may influence groundwater quality. The passage of time affects the information provided in the report. Environmental conditions of a Site can change. Opinions relating to the Site conditions are based upon information that existed at the time that the conclusions were formulated. ASC does not certify or warrant the future environmental/hydrogeological status of the property.

This document has been prepared by ASC Environmental Inc. for the sole use of *Mr. Chris Walcott* and *assignees* to assess hydrogeological conditions related to the subject

property. Unauthorized reuse of this document for other purposes, or by any other party, or any reliance on or decisions to be made based on it, are the responsibility of the third parties. If additional parties require reliance on this report, written authorization from ASC Environmental Inc. will be required. Such reliance will only be provided by ASC Environmental Inc. following written authorization from the Client. ASC Environmental Inc. disclaims responsibility of consequential financial effects on transactions or property values, or requirements for follow-up actions and costs. No other warranties are implied or expressed.

ASC Environmental Inc. will not be responsible for any consequential or indirect damages. ASC Environmental Inc. will only be liable for damages resulting from negligence of ASC Environmental Inc. ASC Environmental Inc. will not be liable for any losses or damage if the Client has failed, within a period of two years following the date upon which the claim is discovered (Claim Period), to commence legal proceedings against ASC Environmental Inc. to recover such losses or damage unless the laws of the jurisdiction which govern the Claim Period which is applicable to such claim provides that the application Claim Period is greater than two years and cannot be abridged by the contract between the Client and ASC Environmental Inc., in which case the Claim Period shall be deemed to be extended by the shortest additional period which results in this provision being legally enforceable.

Yours truly,
ASC Environmental Inc.

Reviewed by:

Tanner Cook, B.A.
Environmental Technical Specialist

Paul Johnston, M.Sc., P. Eng. QP_{ESA}
Project Engineer

APPENDIX A
Drawing No. 1 - 3

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LEGEND

SUBJECT PROPERTY LOCATION

APPROXIMATE LOCATION OF SUBJECT PROPERTY

DRAWING TITLE
Site Location Plan

FIGURE NO.	DRAWN BY
01	T. Cook

PROJECT
Hydrogeological Assessment

CLIENT
Chris Walcott

LOCATION
2188 County Road 1, Prince Edward County, ON

PROJECT NO.	SCALE:
ASC-1080	0 METRES 1,560
DATE	
06-Jan-2026	

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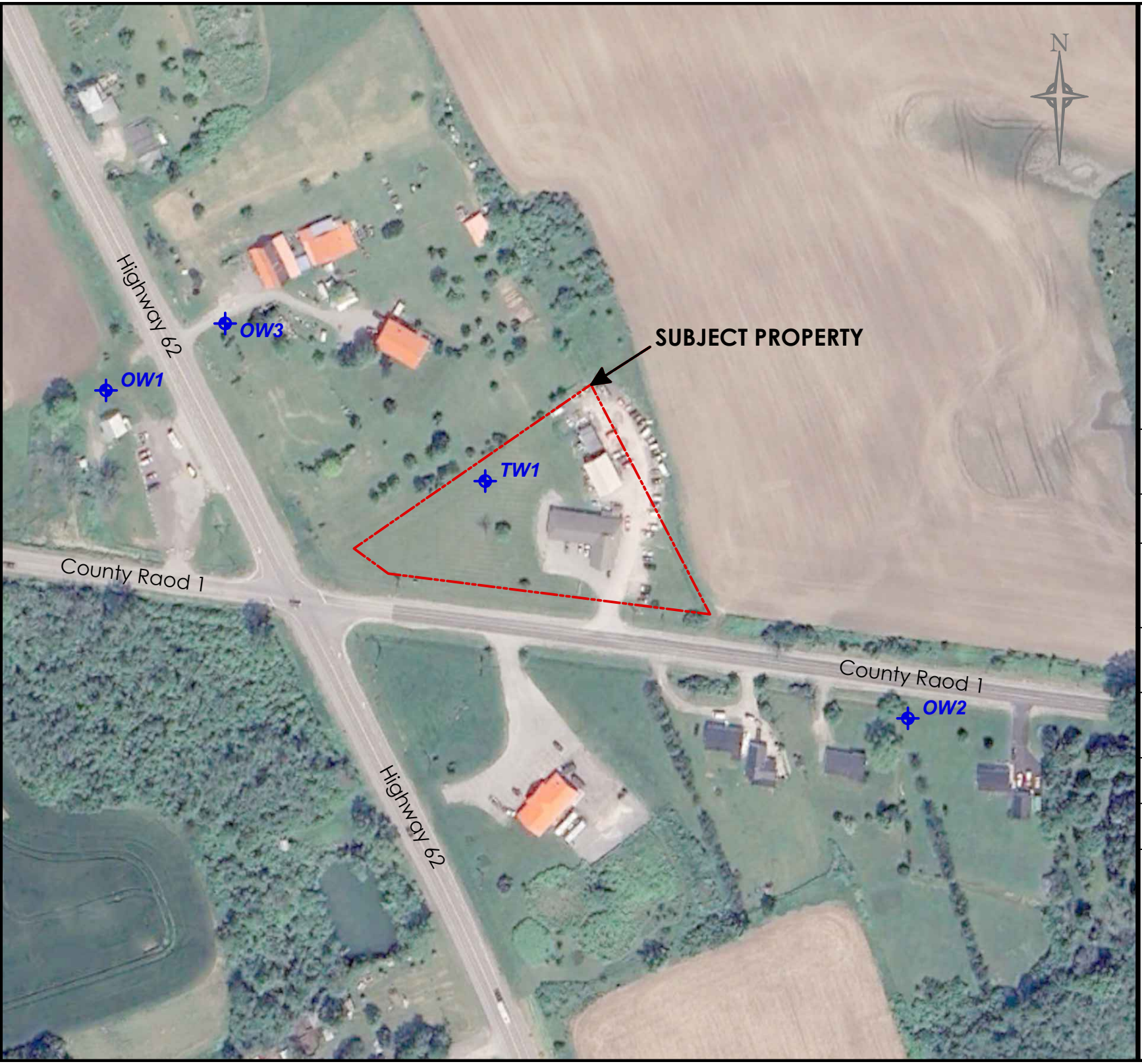

LEGEND

- APPROXIMATE LOCATION OF SUBJECT PROPERTY
- TW1 — APPROXIMATE LOCATION OF TEST WELL
- OW1 — APPROXIMATE LOCATION OF OBSERVATION WELL

DRAWING TITLE
Site Layout Plan

FIGURE NO.	DRAWN BY
02	T. Cook

PROJECT
Hydrogeological Assessment

CLIENT
Chris Walcott

LOCATION
2188 County Road 1, Prince Edward County, ON

PROJECT NO.	SCALE:
ASC-1080	0 METRES 45
DATE	
06-Jan-2026	

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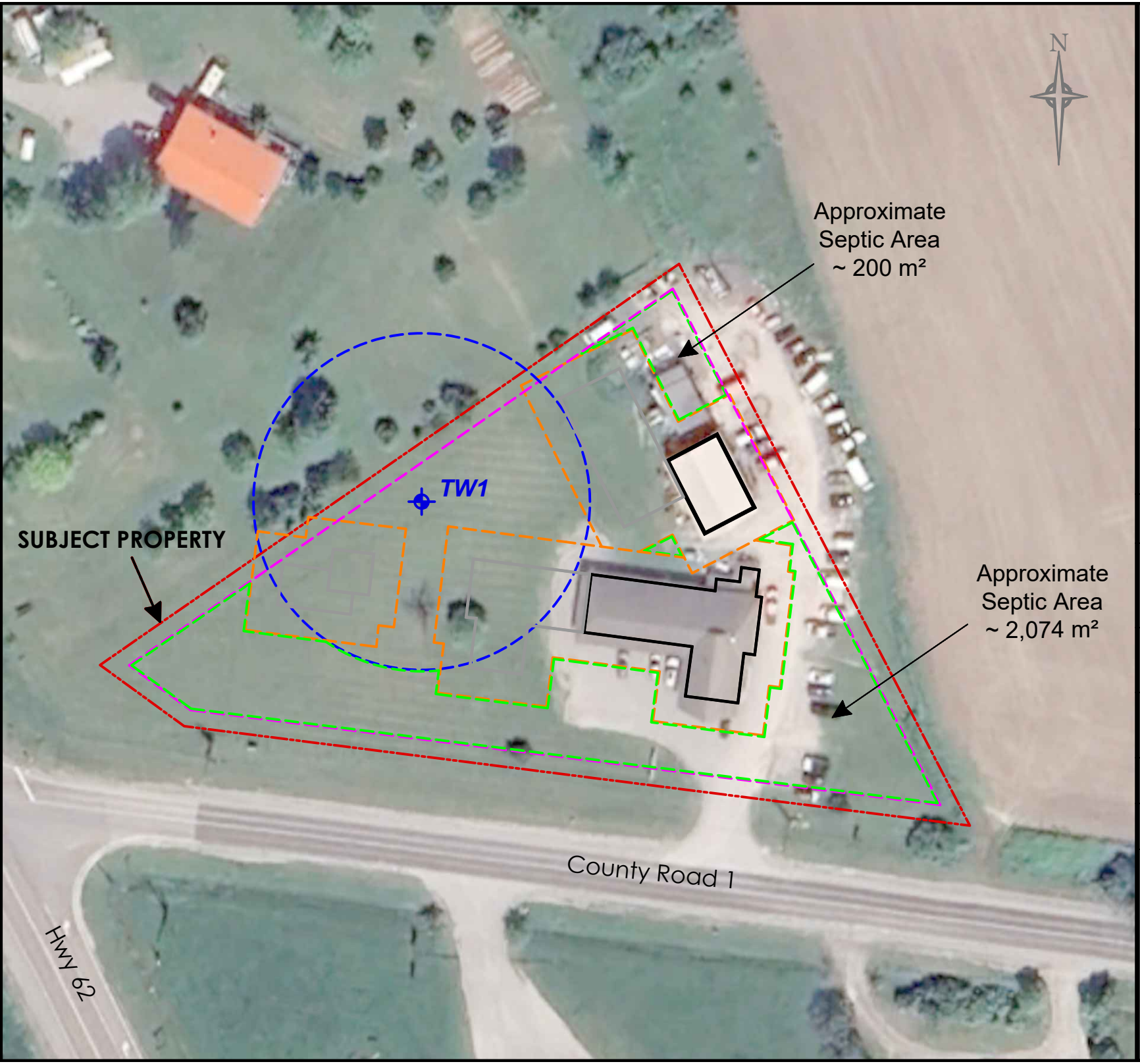

LEGEND

- APPROXIMATE SUBJECT PROPERTY BOUNDARY
- APPROXIMATE 3 METRE PROPERTY LINE SETBACK PER OBC
- APPROXIMATE 30 METRE DUG WELL SETBACK PER OBC
- APPROXIMATE 5 METRE STRUCTURE SETBACK PER OBC
- APPROXIMATE AREA AVAILABLE FOR CLASS 4 SEWAGE SYSTEM
- APPROXIMATE BUILDING FOOTPRINT
- APPROXIMATE PROPOSED BUILDING FOOTPRINT
- TW1 APPROXIMATE LOCATION OF TEST WELL

DRAWING TITLE
Wastewater System Concept Plan

FIGURE NO.	DRAWN BY
03	T. Cook

PROJECT
Hydrogeological Assessment

CLIENT
Chris Walcott

LOCATION
2188 County Road 1, Prince Edward County, ON

PROJECT NO.	SCALE:
ASC-1080	0 METRES 18
DATE	
06-Jan-2026	

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APPENDIX B
Test Well Record

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Ontario Ministry of the Environment

Well Tag Number: A045715 / A045715

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

[redacted]

Address of Well Location (County/District/Municipality)	Township	Lot	Concession
PRINCE EDWARD COUNTY	HALLOWELL	PART LOT 1	LRCP 29

RR#/Street Number/Name	City/Town/Village	Site/Compartment/Block/Tract etc.
1540 HWY 62	BLOOMFIELD	

GPS Reading	NAD	Zone	Easting	Northing	Unit Make/Model	Mode of Operation
	83	18	0316929	4875819	GARMIN	☐ Undifferentiated ☑ Averaged ☐ Differentiated, specify

Log of Overburden and Bedrock Materials (see instructions)

General Colour	Most common material	Other Materials	General Description	Depth From	Depth To
BROWN	TOPSOIL		LOOSE	0	.6
GREY	LIMESTONE		DENSE	.6	6.5

Hole Diameter

Depth From	Depth To	Diameter Centimetres
0	6.5	400

Water Record

Water found at ___ Metres	Kind of Water
2 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
Casing				
91.44	☐ Steel ☐ Fibreglass ☐ Plastic ☑ Concrete ☐ Galvanized	6.44	.40 ABOVE GRADE	6.5 (TOTAL CASING LENGTH 6.9m)
	☐ 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: PUMP OUT

	Draw Down Time min	Draw Down Water Level Metres	Recovery Time min	Recovery Water Level Metres
Pump intake set at - (metres)	Static Level	2.30		
Pumping rate - (litres/min)	1	2.45	1	5.60
Duration of pumping 1 hrs + ___ min	2	2.60	2	5.50
Final water level end of pumping 3.7 metres	3	2.70	3	5.40
Recommended pump type. ☑ Shallow ☐ Deep	4	2.75	4	5.30
Recommended pump depth. 6.0 metres	5	2.80	5	5.20
Recommended pump rate. 35 (litres/min)	10	2.90	10	5.12
If flowing give rate - (litres/min)	15	3.10	15	5.05
	20	3.25	20	5.00
	25	3.45	25	4.95
If pumping discontinued, give reason.	30	3.60	30	4.90
	40	3.90	40	4.80
	50	4.60	50	4.70
	60	5.70	60	4.60

Plugging and Sealing Record

☐ Annular space ☐ Abandonment

Depth set at - Metres From	Depth set at - Metres 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	Well Contractor's Licence No.
DREN HARRISON HAULAGE LTD	7188

Business Address (street name, number, city etc.): 44 CAPTAINS DRIVE, RR4 PICTON ON K0K 2T0

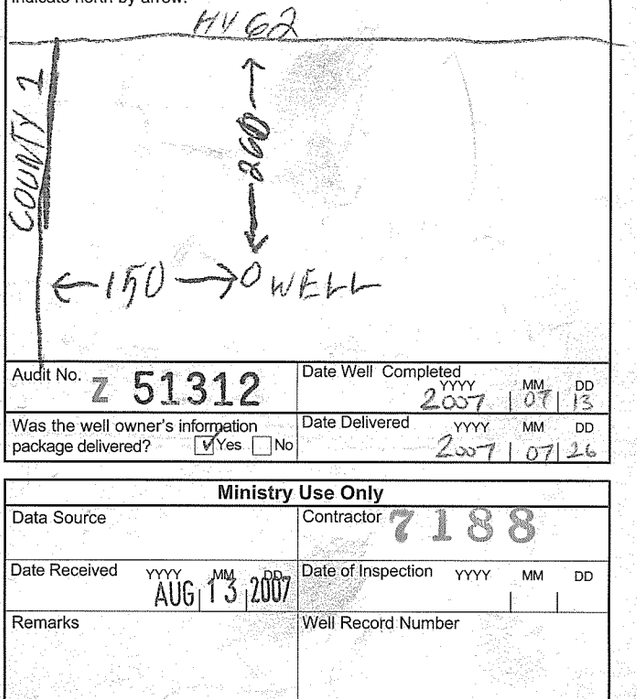
Name of Well Technician (last name, first name)	Well Technician's Licence No.
DREN HARRISON	T2968

Signature of Technician/Contractor: X [signature]

Date Submitted: YYYY 2007 MM 07 DD 26

Location of Well

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



Audit No. Z 51312

Date Well Completed: YYYY 2007 MM 07 DD 13

Was the well owner's information package delivered? ☑ Yes ☐ No

Date Delivered: YYYY 2007 MM 07 DD 26

Ministry Use Only

Data Source	Contractor 7188
Date Received: YYYY AUG MM 13 DD 2007	Date of Inspection: YYYY MM DD
Remarks	Well Record Number

0506E (09/03) Contractor's Copy ☐ Ministry's Copy ☑ Well Owner's Copy ☐ *Cette formule est disponible en français*

APPENDIX C
MECP Water Well Summary Records

ASC Environmental Inc.
1305 Princess Street,
Kingston, ON K7M 3E3
Tel: (613) 634-5596

MINISTRY OF THE ENVIRONMENT

The Ontario Water Resources Act

WATER WELL RECORD

Ontario

31C/3C

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

11 | 5303063 | MUNICIP. 53003 | CON. HL NW | 02

COUNTY OR DISTRICT: PRINCE EDWARD | TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: Hallowell | CON., BLOCK, TRACT, SURVEY, ETC.: 2 N.W of West Lake | LOT: 017

[redacted] PICTON | DATE COMPLETED: DA 04 MO. 12 YR. 76

RC.	ELEVATION	RC.	BASIN CODE	II	III	IV
4	345	4	24	MAR 03, 1977	264	

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	6
Grey	limestone		layered	6	20

31 | 0006605111 | 0020215

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0016'	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	0020
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			

SCREEN

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

MATERIAL AND TYPE | DEPTH TO TOP OF SCREEN FEET

61 PLUGGING & SEALING RECORD

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

71 PUMPING TEST

PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
1 ☒ PUMP AIR 2 ☐ BAILER	0010 GPM.	01 HOURS 00 MINS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING: 1 ☐ PUMPING 2 ☑ RECOVERY	15 MINUTES	20 MINUTES	25 MINUTES	30 MINUTES
002' FEET	020 FEET		002 2 FEET	002 2 FEET	002 2 FEET	002 2 FEET

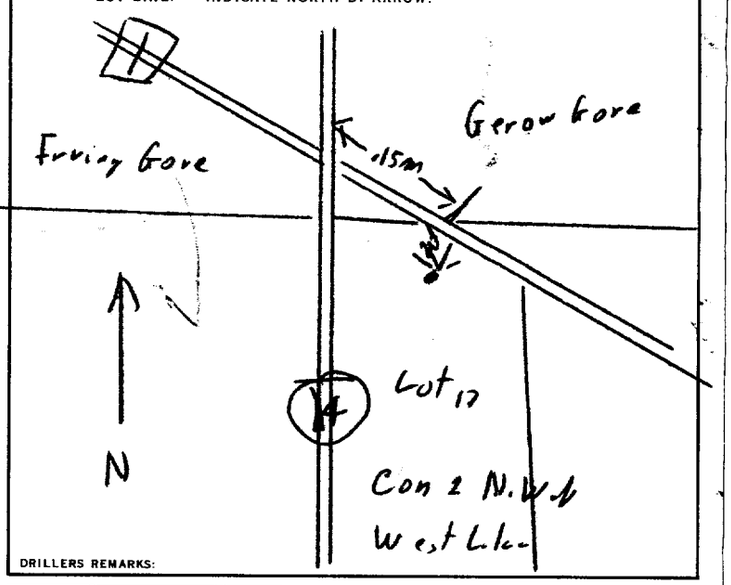
IF FLOWING, GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST
GPM.	FEET	1 ☑ CLEAR 2 ☐ CLOUDY

RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING	RECOMMENDED PUMPING RATE
☐ SHALLOW ☑ DEEP	018 FEET	0008 GPM

GPM./FT. SPECIFIC CAPACITY

LOCATION OF WELL 1775

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: McKENNON DRILLING LTD | LICENCE NUMBER: 3516

ADDRESS: WELLINGTON ONT.

NAME OF DRILLER OR BORER: Lew McKennon | LICENCE NUMBER:

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

OFFICE USE ONLY

DATA SOURCE 1 | CONTRACTOR 3516 | DATE RECEIVED 250375

DATE OF INSPECTION | INSPECTOR

REMARKS:

P WI

MINISTRY OF THE ENVIRONMENT COPY

FORM 7 MOE 07-091

Ministry of the Environment
Ontario

The Ontario Water Resources Act

WATER WELL RECORD

1. PRINT ONLY IN SPACES PROVIDED
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11 **5304493** MUNICIP CON.

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON., BLOCK, TRACT, SURVEY, ETC.	LOT
[redacted]	Hallowell	Irvine gore	65
	R.R.# 1 Bloomfield	DATE COMPLETED DAY 17 MO 4 YR 85	

NG RC ELEVATION RC BASIN CODE II III IV

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	DEPTH - FEET TO
brown	topsoil		loose	0	1
brown	clay	shale	loose	1	5
grey	shale		loose	5	6
grey	limestone		hard	6	40

31

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
23	1 ☒ FRESH 3 ☐ SULPHUR / 2 ☐ SALTY 4 ☐ MINERAL
28	1 ☒ FRESH 3 ☐ SULPHUR / 2 ☐ SALTY 4 ☐ MINERAL
33	1 ☒ FRESH 3 ☐ SULPHUR / 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR / 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR / 2 ☐ SALTY 4 ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	DEPTH - FEET TO
6¼	1 ☒ STEEL / 2 ☐ GALVANIZED / 3 ☐ CONCRETE / 4 ☐ OPEN HOLE	.188	0	20'6"
6¼	1 ☐ STEEL / 2 ☐ GALVANIZED / 3 ☐ CONCRETE / 4 ☒ OPEN HOLE		20'6"	40
	1 ☐ STEEL / 2 ☐ GALVANIZED / 3 ☐ CONCRETE / 4 ☐ OPEN HOLE			

SCREEN

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

61 PLUGGING & SEALING RECORD

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

71 PUMPING TEST

PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
1 ☐ PUMP 2 ☒ BAILER	20 GPM	1 HOURS 10 MINS

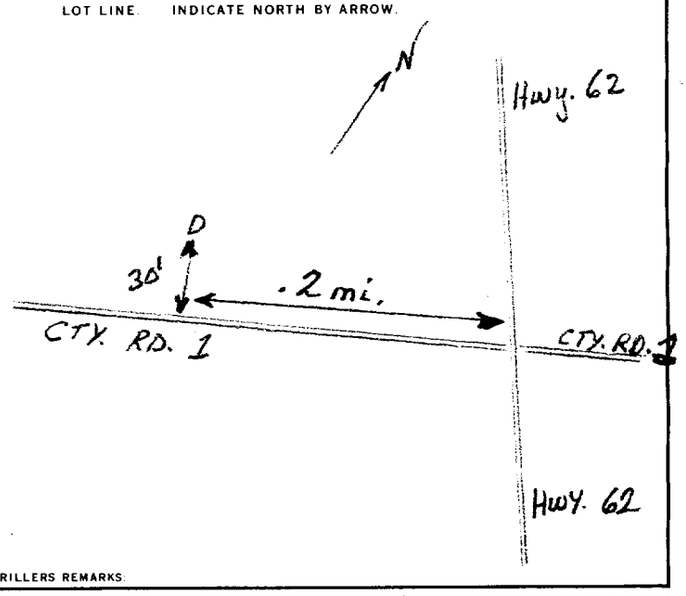
STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING (1 ☐ PUMPING 2 ☒ RECOVERY)	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
22 FEET	25 FEET		22 FEET	22 FEET	22 FEET	22 FEET

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	37 FEET	20 GPM

LOCATION OF WELL

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



DRILLERS REMARKS:

FINAL STATUS OF WELL

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

WATER USE

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

METHOD OF DRILLING

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

CONTRACTOR

NAME OF WELL CONTRACTOR	LICENCE NUMBER
CHALK WELL DRILLING LTD.	1507
ADDRESS: R.R.#6 Napanee	
NAME OF DRILLER OR BORER	LICENCE NUMBER
R. Ian Chalk	1576
SIGNATURE OF CONTRACTOR: CHALK WELL DRILLING LTD.	SUBMISSION DATE: DAY 17 MO. 4 YR. 85

OFFICE USE ONLY

DATA SOURCE | CONTRACTOR | DATE RECEIVED: 220186

DATE OF INSPECTION | INSPECTOR

REMARKS

CSS.ES

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Ministry of the Environment
Ontario

The Ontario Water Resources Act

WATER WELL RECORD

5304572

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COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON., BLOCK, TRACT, SURVEY, ETC.	LOT
[redacted]	Hallowell	II N.W.W.L.	17
	R.R. 1 Bloomfield	DATE COMPLETED DAY 16 MO 5 YR 86	

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	DEPTH - FEET TO
brown	clay		packed	0	4
grey	shale		loose	4	8
grey	limestone		hard	8	63

31
32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
10-13: dry	1 ☐ FRESH 3 ☐ SULPHUR 14; 2 ☐ SALTY 4 ☐ MINERAL
15-18	1 ☐ FRESH 3 ☐ SULPHUR 19; 2 ☐ SALTY 4 ☐ MINERAL
20-23	1 ☐ FRESH 3 ☐ SULPHUR 24; 2 ☐ SALTY 4 ☐ MINERAL
25-28	1 ☐ FRESH 3 ☐ SULPHUR 29; 2 ☐ SALTY 4 ☐ MINERAL
30-33	1 ☐ FRESH 3 ☐ SULPHUR 34; 2 ☐ SALTY 4 ☐ MINERAL 80

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	DEPTH - FEET TO
10-11: 6"	1 ☒ STEEL 12; 2 ☐ GALVANIZED; 3 ☐ CONCRETE; 4 ☐ OPEN HOLE	.188	0	10 13-16
17-18: 6"	1 ☐ STEEL 19; 2 ☐ GALVANIZED; 3 ☐ CONCRETE; 4 ☒ OPEN HOLE		10	63 20-23
24-25	1 ☐ STEEL 26; 2 ☐ GALVANIZED; 3 ☐ CONCRETE; 4 ☐ OPEN HOLE			27-30

SCREEN

SIZE(S) OF OPENING (SLOT NO.) 31-33	DIAMETER 34-38 INCHES	LENGTH 39-40 FEET
MATERIAL AND TYPE	DEPTH TO TOP OF SCREEN 41-44 FEET	80

61 PLUGGING & SEALING RECORD

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

71 PUMPING TEST

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

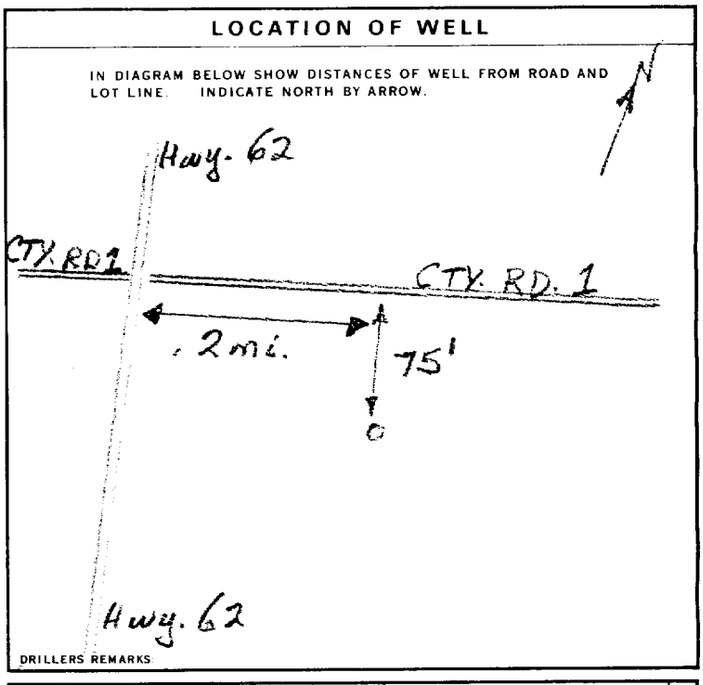
STATIC LEVEL	WATER LEVEL END OF PUMPING	25 WATER LEVELS DURING 1 ☐ PUMPING 2 ☐ RECOVERY			
		15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
19-21 FEET	22-24 FEET	26-28 FEET	29-31 FEET	32-34 FEET	35-37 FEET

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

50-53

LOCATION OF WELL

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



DRILLERS REMARKS:

FINAL STATUS OF WELL 54

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

WATER USE 55-56

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

METHOD OF DRILLING 57

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

CONTRACTOR

NAME OF WELL CONTRACTOR	LICENCE NUMBER
CHALK WELL DRILLING LTD.	1507
ADDRESS: R.R. 6 Napanee	
NAME OF DRILLER OR BORER	LICENCE NUMBER
George A. Chalk	1559
SIGNATURE OF CONTRACTOR: CHALK WELL DRILLING LTD.	SUBMISSION DATE DAY 16 MO 5 YR 86

OFFICE USE ONLY

DATA SOURCE 58	CONTRACTOR 59-62	DATE RECEIVED 63-68	80
DATE OF INSPECTION	INSPECTOR	300187	
REMARKS			

CSS-ES

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Ministry of the Environment
Ontario

The Ontario Water Resources Act

WATER WELL RECORD

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

11 5304759 MUNICIP CON

COUNTY OR DISTRICT: [redacted]
TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: Hallowell
CON., BLOCK, TRACT, SURVEY, ETC: G. G.
LOT: 65
ADDRESS OF WELL LOCATION: [redacted]. # 1, Bloomfield, Ontario
DATE COMPLETED: DAY 5 MO 10 YR 87

RC ELEVATION RC BASIN CODE

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	DEPTH - FEET TO
Brown	Topsoil		Loose	0	1
Brown	Loam	Gravel	Packed	1	5
Brown	Shale, Limestone		Packed	5	9
Grey	Limestone		Hard	9	25

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
12	1 ☒ FRESH 2 ☐ SALTY; 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS
	1 ☐ FRESH 2 ☐ SALTY; 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS
	1 ☐ FRESH 2 ☐ SALTY; 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS
	1 ☐ FRESH 2 ☐ SALTY; 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS
	1 ☐ FRESH 2 ☐ SALTY; 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	DEPTH - FEET TO
6¼"	1 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE 5 ☐ PLASTIC	.188	0	11ft. 6"
6¼"	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☒ OPEN HOLE 5 ☐ PLASTIC	11'	11'6"	25
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE 5 ☐ PLASTIC			

SCREEN

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

61 PLUGGING & SEALING RECORD

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

71 PUMPING TEST

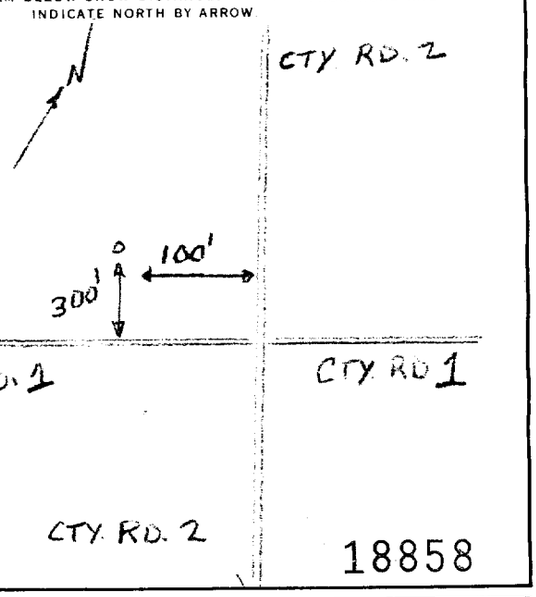
PUMPING TEST METHOD: 1 ☐ PUMP 2 ☒ BAILER
PUMPING RATE: 20 GPM
DURATION OF PUMPING: 2 HOURS 2 0 MINS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING: 1 ☐ PUMPING 2 ☒ RECOVERY			
		15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
9 FEET	20 FEET	9 FEET	9 FEET	9 FEET	9 FEET

IF FLOWING, GIVE RATE: GPM
PUMP INTAKE SET AT: FEET
WATER AT END OF TEST: 1 ☒ CLEAR 2 ☐ CLOUDY
RECOMMENDED PUMP TYPE: ☐ SHALLOW ☒ DEEP
RECOMMENDED PUMP SETTING: 22 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: 18858

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 9 ☐ 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: CHALK WELL DRILLING LTD.
WELL CONTRACTOR'S LICENCE NUMBER: 1507
ADDRESS: R.R. # 6, Napanee, Ontario
NAME OF WELL TECHNICIAN: KEVIN CHALK
WELL TECHNICIAN'S LICENCE NUMBER: 87-004
SIGNATURE OF TECHNICIAN/CONTRACTOR: CHALK WELL DRILLING LTD.
SUBMISSION DATE: DAY 5 MO 10 YR 87

OFFICE USE ONLY

DATA SOURCE | CONTRACTOR | DATE RECEIVED: FEB 03 1988
DATE OF INSPECTION | INSPECTOR
REMARKS: CSS.ES

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Ministry of the Environment
Ontario

The Ontario Water Resources Act

WATER WELL RECORD

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11 — 5304760 — MUNICIP. — CON.

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON., BLOCK, TRACT, SURVEY, ETC.	LOT
[redacted]	Hallowell	G.G.	65

[redacted]. R. # 1, Bloomfield, Ontario

DATE COMPLETED: DAY 1 MO 10 YR 87

RC — ELEVATION — RC — BASIN CODE

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	DEPTH - FEET TO
Brown	Top Soil		Loose	0	2
Brown	Shale		Loos e	2	7
Grey	Limestone		Hard	7	67

31

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
66	1 ☐ FRESH 3 ☐ SULPHUR; 2 ☒ SALTY 4 ☐ MINERALS 6 ☐ GAS
	1 ☐ FRESH 3 ☐ SULPHUR; 2 ☐ SALTY 4 ☐ MINERALS 6 ☐ GAS
	1 ☐ FRESH 3 ☐ SULPHUR; 2 ☐ SALTY 4 ☐ MINERALS 6 ☐ GAS
	1 ☐ FRESH 3 ☐ SULPHUR; 2 ☐ SALTY 4 ☐ MINERALS 6 ☐ GAS
	1 ☐ FRESH 3 ☐ SULPHUR; 2 ☐ SALTY 4 ☐ MINERALS 6 ☐ GAS

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	DEPTH - FEET TO
6¼	1 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE 5 ☐ PLASTIC	.188	0	7
6¼	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☒ OPEN HOLE 5 ☐ PLASTIC		7	67
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE 5 ☐ PLASTIC			

SCREEN

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

MATERIAL AND TYPE — DEPTH TO TOP OF SCREEN FEET

61 PLUGGING & SEALING RECORD

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

71 PUMPING TEST

PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
1 ☐ PUMP 2 ☒ BAILER	3 GPM	1 HOURS 0 MINS

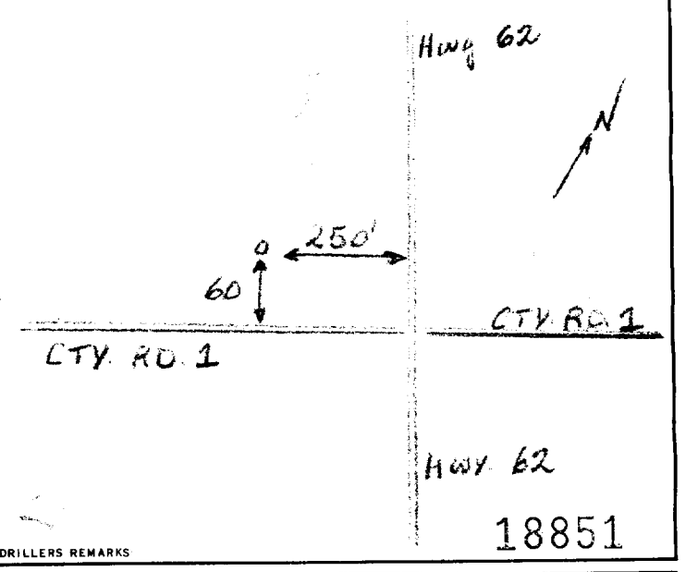
STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
7 FEET	66 FEET	1 ☐ PUMPING 2 ☒ RECOVERY	35 FEET	15 FEET	7 FEET	7 FEET

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	64 FEET	3 GPM

LOCATION OF WELL

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



18851

DRILLERS REMARKS

FINAL STATUS OF WELL

1 ☐ WATER SUPPLY; 2 ☐ OBSERVATION WELL; 3 ☐ TEST HOLE; 4 ☐ RECHARGE WELL; 5 ☐ ABANDONED, INSUFFICIENT SUPPLY; 6 ☒ ABANDONED, POOR QUALITY; 7 ☐ UNFINISHED; 9 ☐ 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	WELL CONTRACTOR'S LICENCE NUMBER
CHALK WELL DRILLING LTD.	1507

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

NAME OF WELL TECHNICIAN	WELL TECHNICIAN'S LICENCE NUMBER
Don Davey	T-0025

SIGNATURE OF TECHNICIAN/CONTRACTOR: CHALK WELL DRILLING LTD.

SUBMISSION DATE: DAY 1 MO. 10 YR. 87

OFFICE USE ONLY

DATA SOURCE — CONTRACTOR — DATE RECEIVED: FEB 03 1988

DATE OF INSPECTION — INSPECTOR

REMARKS: CSS.ES

MINISTRY OF THE ENVIRONMENT COPY

FORM NO. 0506 (11/86) FORM 9

Ministry of the Environment
Ontario

The Ontario Water Resources Act

WATER WELL RECORD

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

11 | 5304979 | MUNICIP 53093 | CON. WL, NW | 02

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON. BLOCK, TRACT, SURVEY, ETC.	LOT
[redacted]	Hallowell	II N.W.W.L.	17

[redacted] R.R. # 1, Bloomfield

DATE COMPLETED: DAY 24 MO 08 YR 88

ELEVATION | BASIN CODE

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	DEPTH - FEET TO
Brown	Topsoil		Loose	0	3
Brown	Limestone		Hard	3	45

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
10	1 ☒ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	DEPTH - FEET TO
6¼"	1 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE 5 ☐ PLASTIC	.188	0	12
6"	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☒ OPEN HOLE 5 ☐ PLASTIC		12	45
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE 5 ☐ PLASTIC			

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.)
4	9	cement

PUMPING TEST

PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
1 ☐ PUMP 2 ☒ BAILER	3 GPM	1 HOURS 0 MINS

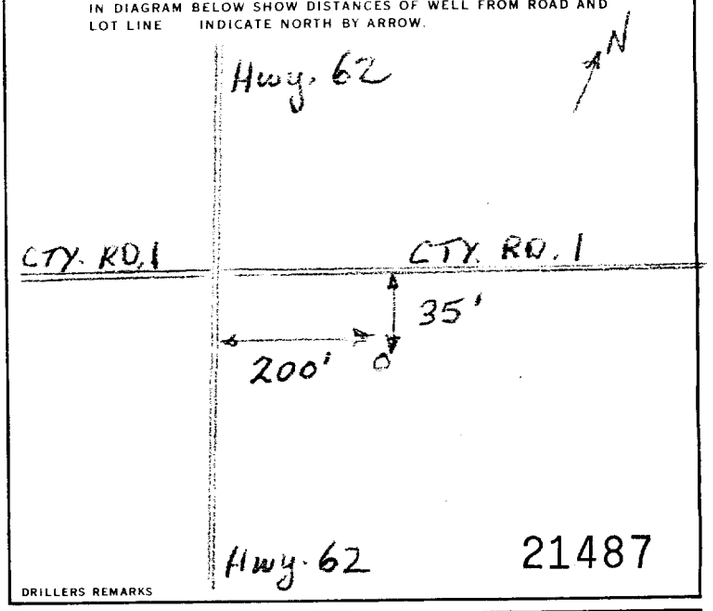
STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING (1 ☐ PUMPING 2 ☒ RECOVERY)	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
7 FEET	48 FEET		12 FEET	7 FEET	7 FEET	7 FEET

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	42 FEET	3 GPM

LOCATION OF WELL

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



21487

DRILLERS REMARKS

FINAL STATUS OF WELL	
	1 ☒ WATER SUPPLY 2 ☐ OBSERVATION WELL 3 ☐ TEST HOLE 4 ☐ RECHARGE WELL 5 ☐ ABANDONED, INSUFFICIENT SUPPLY 6 ☐ ABANDONED, POOR QUALITY 7 ☐ UNFINISHED 9 ☐ 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: CHALK WELL DRILLING LTD.
WELL CONTRACTOR'S LICENCE NUMBER: 1507
ADDRESS: R.R. # 6, Napanee
NAME OF WELL TECHNICIAN: Donald Davey
WELL TECHNICIAN'S LICENCE NUMBER: T-0025
SIGNATURE OF TECHNICIAN/CONTRACTOR: CHALK WELL DRILLING LTD.
SUBMISSION DATE: DAY 24 MO 08 YR 88

OFFICE USE ONLY

DATA SOURCE | CONTRACTOR 1507 | DATE RECEIVED FEB 22 1989
DATE OF INSPECTION | INSPECTOR
REMARKS
WDE
CSS-ES

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Ministry of the Environment
Ontario

The Ontario Water Resources Act

WATER WELL RECORD

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

11 — 5304980 — MUNICIP 53003 — CON. WL NW — LOT 17

COUNTY OR DISTRICT: [redacted]
TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: Hallowell
CON. BLOCK, TRACT, SURVEY, ETC: II N.W.W.L.
LOT: 17
DATE COMPLETED: DAY 22 MO 08 YR 88
ADDRESS OF WELL: R. # 1, Bloomfield
RC — ELEVATION — RC — BASIN CODE

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	DEPTH - FEET TO
Brown	Topsoil		Loose	0	2
Brown	Shale		Broken	2	5
Grey	Limestone		Hard	5	53

31
32

41 WATER RECORD

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

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	DEPTH - FEET TO
6¼"	1 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE 5 ☐ PLASTIC	.188	0	8
6"	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☒ OPEN HOLE 5 ☐ PLASTIC		8	53
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE 5 ☐ PLASTIC			

SCREEN

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

61 PLUGGING & SEALING RECORD

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

71 PUMPING TEST

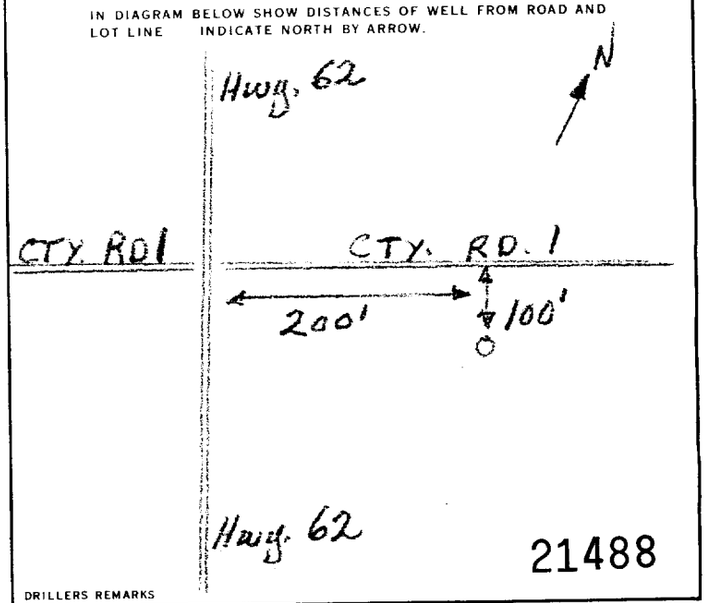
PUMPING TEST METHOD: 1 ☐ PUMP 2 ☐ BAILER
PUMPING RATE: GPM
DURATION OF PUMPING: HOURS MINS

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

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

LOCATION OF WELL

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



DRILLERS REMARKS: 21488

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 9 ☐ 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: CHALK WELL DRILLING LTD.
WELL CONTRACTOR'S LICENCE NUMBER: 1507
ADDRESS: R.R. # 6, Napanee
NAME OF WELL TECHNICIAN: Donald Davey
WELL TECHNICIAN'S LICENCE NUMBER: T-0025
SIGNATURE OF TECHNICIAN/CONTRACTOR: CHALK WELL DRILLING LTD.
SUBMISSION DATE: DAY 22 MO 08 YR 88

OFFICE USE ONLY

DATA SOURCE
CONTRACTOR: 1507
DATE RECEIVED: FEB 22 1989
DATE OF INSPECTION
INSPECTOR
REMARKS: WDE
CSS-ES

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FORM NO. 0506 (11/86) FORM 9

Ministry of the Environment
Ontario

The Ontario Water Resources Act

WATER WELL RECORD

5305494

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11

MUNICIP 53003 CON. WL NW LOT 02

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON. BLOCK, TRACT, SURVEY, ETC.	LOT
[redacted]	Hallowell	II N.W.W.L.	17

DATE COMPLETED: DAY 15 MO 06 YR 90

ADDRESS OF WELL: R. R # 1, Bloomfield, Ontario

ELEVATION RC: BASIN CODE:

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	DEPTH - FEET TO
Brown	Topsoil		Loose	0	1
Grey	Shale		Loose	1	4
Grey	Limestone		Hard	4	42

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
18	1 ☒ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS
35	1 ☒ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	DEPTH - FEET TO
6¼"	1 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE 5 ☐ PLASTIC	.188	0	7
6¼"	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☒ OPEN HOLE 5 ☐ PLASTIC		7	42
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE 5 ☐ PLASTIC			

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.)
6	2	Cement
2	0	Cuttings

71 PUMPING TEST

PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
1 ☐ PUMP 2 ☒ BAILER	30 GPM	1 HOURS 0 MINS

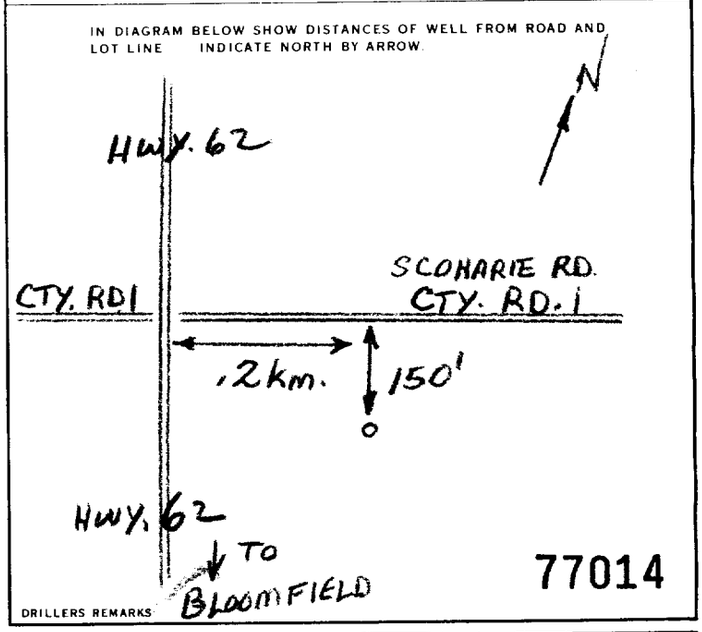
STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
8 FEET	18 FEET	1 ☐ PUMPING 2 ☒ RECOVERY	8 FEET	8 FEET	8 FEET	8 FEET

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	38 FEET	8 GPM

LOCATION OF WELL

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



DRILLERS REMARKS: 77014

FINAL STATUS OF WELL	WATER USE	METHOD OF CONSTRUCTION
1 ☒ WATER SUPPLY	1 ☒ DOMESTIC	1 ☒ CABLE TOOL
2 ☐ OBSERVATION WELL	2 ☐ STOCK	2 ☐ ROTARY (CONVENTIONAL)
3 ☐ TEST HOLE	3 ☐ IRRIGATION	3 ☐ ROTARY (REVERSE)
4 ☐ RECHARGE WELL	4 ☐ INDUSTRIAL	4 ☐ ROTARY (AIR)
5 ☐ ABANDONED, INSUFFICIENT SUPPLY	☐ OTHER	5 ☐ AIR PERCUSSION
6 ☐ ABANDONED, POOR QUALITY	5 ☐ COMMERCIAL	6 ☐ BORING
7 ☐ UNFINISHED	6 ☐ MUNICIPAL	7 ☐ DIAMOND
☐ DEWATERING	7 ☐ PUBLIC SUPPLY	8 ☐ JETTING
	8 ☐ COOLING OR AIR CONDITIONING	9 ☐ DRIVING
	9 ☐ NOT USED	☐ DIGGING ☐ OTHER

CONTRACTOR

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

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

NAME OF WELL TECHNICIAN: Tim Trickey — WELL TECHNICIAN'S LICENCE NUMBER: 89-395

SIGNATURE OF TECHNICIAN/CONTRACTOR: CHALK WELL DRILLING LTD. — SUBMISSION DATE: DAY 16 MO 06 YR 90

OFFICE USE ONLY

DATA SOURCE | CONTRACTOR 1507 | DATE RECEIVED FEB 07 1991

DATE OF INSPECTION | INSPECTOR

REMARKS: CSS-ES

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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

5306263

Municipality 53003 Con. WL NW 02

County or District [redacted]

Township/Borough/City/Town/Village: HALLOWELL

Con block tract survey, etc.: 2 N-W OF WESTLAKE

Lot: 16

Address: R.R # 4 PICTON

Date completed: 14 day 05 month 96 year

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

LOG OF OVERBURDEN AND BEDROCK MATERIALS (see instructions)

General colour	Most common material	Other materials	General description	Depth – feet From	Depth – feet To
BROWN	CLAY	STONES		0	10
GREY	LIMESTONE			10	71½

41 WATER RECORD

Water found at – feet	Kind of water
22	1 ☑ Fresh 2 ☐ Salty; 3 ☐ Sulphur 4 ☐ Minerals 5 ☐ Gas
47	1 ☐ Fresh 2 ☐ Salty; 3 ☐ Sulphur 4 ☐ Minerals 5 ☑ Gas
	1 ☐ Fresh 2 ☐ Salty; 3 ☐ Sulphur 4 ☐ Minerals 5 ☐ Gas
	1 ☐ Fresh 2 ☐ Salty; 3 ☐ Sulphur 4 ☐ Minerals 5 ☐ Gas
	1 ☐ Fresh 2 ☐ Salty; 3 ☐ Sulphur 4 ☐ Minerals 5 ☐ Gas

51 CASING & OPEN HOLE RECORD

Inside diam inches	Material	Wall thickness inches	Depth – feet From	Depth – feet To
6¼	1 ☑ Steel 2 ☐ Galvanized 3 ☐ Concrete 4 ☐ Open hole 5 ☐ Plastic	.188	0	20'6"
5⅞	1 ☐ Steel 2 ☐ Galvanized 3 ☐ Concrete 4 ☑ Open hole 5 ☐ Plastic		20'6"	71½
	1 ☐ Steel 2 ☐ Galvanized 3 ☐ Concrete 4 ☐ Open hole 5 ☐ Plastic			

ABANDONED

SCREEN

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

61 PLUGGING & SEALING RECORD

☐ Annular space ☑ Abandonment

Depth set at – feet From	To	Material and type (Cement grout, bentonite, etc.)
8	10	BENTONITE CLAY
10	70	CLAY SLURRY, CUTTINGS
70	71½	CONCRETE.

71 PUMPING TEST

Pumping test method: 1 ☐ Pump 2 ☐ Bailer

Pumping rate: GPM

Duration of pumping: Hours Mins

Static level: feet

Water level end of pumping: feet

Water levels during: 1 ☐ Pumping 2 ☐ Recovery

15 minutes	30 minutes	45 minutes	60 minutes
DRY feet	feet	feet	feet

If flowing give rate: GPM

Pump intake set at: feet

Water at end of test: ☐ Clear ☐ Cloudy

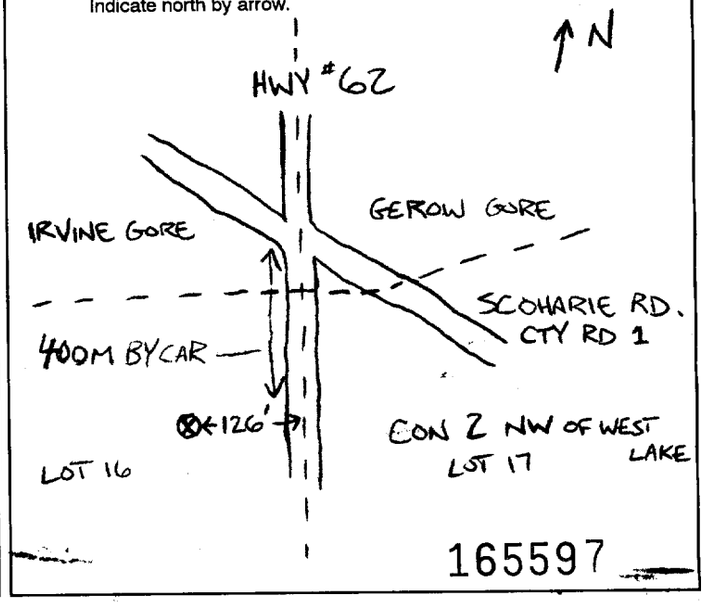
Recommended pump type: ☐ Shallow ☐ Deep

Recommended pump setting: feet

Recommended pump rate: GPM

LOCATION OF WELL

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



165597

FINAL STATUS OF WELL

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

WATER USE

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

METHOD OF CONSTRUCTION

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

Name of Well Contractor: TRENT VALLEY DRILLING
Well Contractor's Licence No.: 5021

Address: RR# 1 WOOLER, ONT. K0K 3M0

Name of Well Technician: JOHN CROWE
Well Technician's Licence No.: T-2388

Signature of Technician/Contractor: John Crowe
Submission date: day 18 mo 05 yr 95

MINISTRY USE ONLY

Data source | Contractor: 5021 | Date received: JUN 10 1996

Date of inspection | Inspector

Remarks: GSS-ES

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Ontario Ministry of the Environment

The Ontario Water Resources Act
WATER WELL RECORD

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

11 — 5306832 — Municipality 53003 — Con. GG

County or District	Township/Borough/City/Town/Village	Con block tract survey, etc.	Lot
PRINCE EDWARD	HALLOWELL	GENOU GORE PART	1 RCP29 63

[redacted] Address: RR1 BLOOMFIELD K0K 1G0 — Date completed 30 day 07 month 01 year

21 — 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	To
BROWN	TOP SOIL	STONES	DENSE	0	3
BROWN	SHALE		LOOSE	3	6
GREY	LIMESTONE		HARD	6	65

31
32

41 WATER RECORD

Water found at - feet	Kind of water
	☐ Fresh ☐ Salty ☐ Sulphur ☐ Minerals ☐ Gas
	☐ Fresh ☐ Salty ☐ Sulphur ☐ Minerals ☐ Gas
	☐ Fresh ☐ Salty ☐ Sulphur ☐ Minerals ☐ Gas
	☐ Fresh ☐ Salty ☐ Sulphur ☐ Minerals ☐ Gas
	☐ Fresh ☐ Salty ☐ Sulphur ☐ Minerals ☐ Gas

51 CASING & OPEN HOLE RECORD

Inside diam inches	Material	Wall thickness inches	Depth - feet From	To
6	☐ Steel ☐ Galvanized ☐ Concrete ☐ Open hole ☐ Plastic		0	65
	☐ Steel ☐ Galvanized ☐ Concrete ☐ Open hole ☐ Plastic			
	☐ Steel ☐ Galvanized ☐ Concrete ☐ Open hole ☐ Plastic			

SCREEN

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

61 PLUGGING & SEALING RECORD

☐ Annular space ☑ Abandonment

Depth set at - feet From	To	Material and type (Cement grout, bentonite, etc.)
65	0	CEMENT

71 PUMPING TEST

Pumping test method ☐ Pump ☐ Bailer — Pumping rate GPM — Duration of pumping Hours Mins

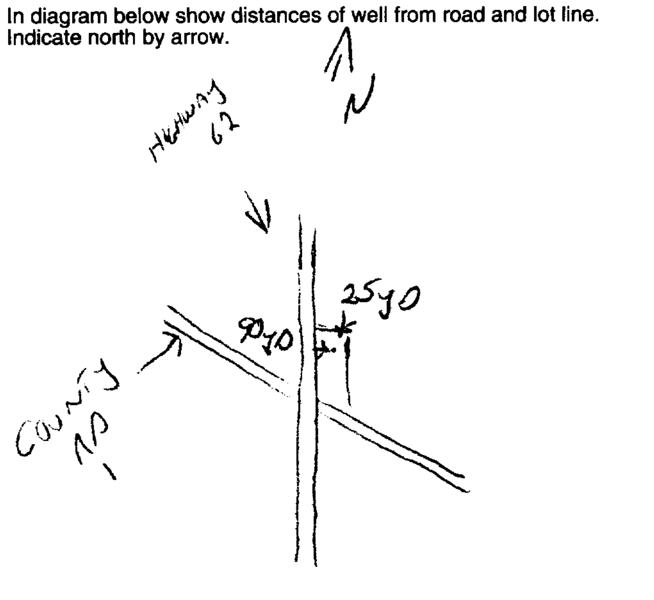
Static level feet — Water level end of pumping feet — Water levels during ☐ Pumping ☐ Recovery: 15 minutes feet, 30 minutes feet, 45 minutes feet, 60 minutes feet

If flowing give rate GPM — Pump intake set at feet — Water at end of test ☐ Clear ☐ Cloudy

Recommended pump type ☐ Shallow ☐ Deep — Recommended pump setting feet — Recommended pump rate GPM

LOCATION OF WELL

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



227228

FINAL STATUS OF WELL

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

WATER USE

☐ Domestic ☐ Stock ☐ Irrigation ☐ Industrial
☐ Commercial ☐ Municipal ☐ Public supply ☐ Cooling & air conditioning
☐ Not use ☐ Other

METHOD OF CONSTRUCTION

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

Name of Well Contractor: PRINCE EDWARD WELL DRILLERS — Well Contractor's Licence No. 6005
Address: RR3 PICTON K0K 2T0
Name of Well Technician: GLENDON McKEE — Well Technician's Licence No. T2826
Signature of Technician/Contractor: Glendon McKee — Submission date day 30 mo 07 yr 01

MINISTRY USE ONLY

Data source — Contractor 6005 — Date received AUG 24 2001
Date of inspection — Inspector
Remarks

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0506 (07/00) Front Form 9

Ontario Ministry of the Environment

The Ontario Water Resources Act
WATER WELL RECORD

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

11 | 5306833 | Municipality 53003 | Con. GG

County or District	Township/Borough/City/Town/Village	Con block tract survey, etc.	Lot
PRINCE EDWARD	HALLOWELL	GEROW GORE PART 1 RP29	63
[redacted]	Address RR1 BLOOMFEILD K0K 1G0	Date completed 3 day 08 month 01 year	

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

LOG OF OVERBURDEN AND BEDROCK MATERIALS (see instructions)

General colour	Most common material	Other materials	General description	Depth - feet From	Depth - feet To
BROWN	TOP SOIL	STONES	DENSE	0	5
GREY	LIMESTONE		HARD	5	50

31

32

41 WATER RECORD

Water found at - feet	Kind of water
11	☑ Fresh ☐ Salty ☐ Sulphur ☐ Minerals ☐ Gas
	☐ Fresh ☐ Salty ☐ Sulphur ☐ Minerals ☐ Gas
	☐ Fresh ☐ Salty ☐ Sulphur ☐ Minerals ☐ Gas
	☐ Fresh ☐ Salty ☐ Sulphur ☐ Minerals ☐ Gas
	☐ Fresh ☐ Salty ☐ Sulphur ☐ Minerals ☐ Gas

51 CASING & OPEN HOLE RECORD

Inside diam inches	Material	Wall thickness inches	Depth - feet From	Depth - feet To
8	☑ Open hole		0	10
6 1/4	☑ Steel	.188	0	10
6 1/8			10	50

SCREEN

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

61 PLUGGING & SEALING RECORD

☑ Annular space ☐ Abandonment

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

71 PUMPING TEST

Pumping test method: ☐ Pump ☑ Bailer | Pumping rate: 10 GAL PER HOUR | Duration of pumping: 1 Hours ... Mins

Water levels during: ☐ Pumping ☑ Recovery

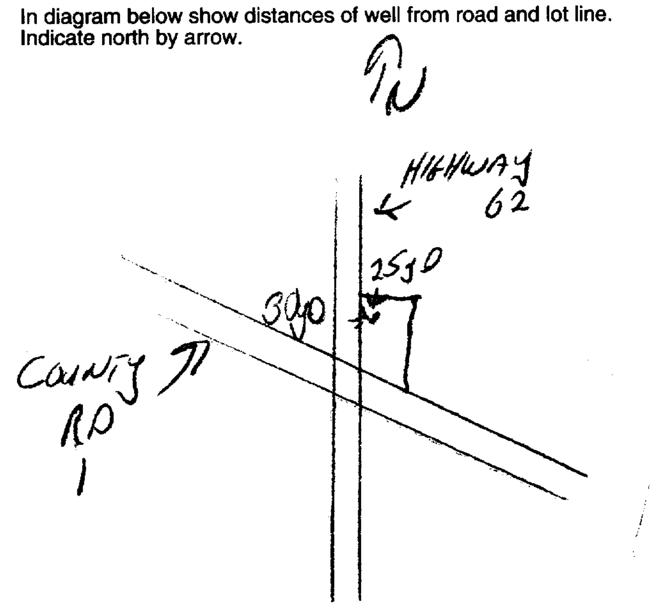
Static level	Water level end of pumping	15 minutes	30 minutes	45 minutes	60 minutes
8 feet	42 feet	48 feet	46 feet	44 feet	42 feet

If flowing give rate ... GPM | Pump intake set at 45 feet | Water at end of test ☐ Clear ☑ Cloudy

Recommended pump type ☐ Shallow ☑ Deep | Recommended pump setting 45 feet | Recommended pump rate RNP SYSTEM GPM

LOCATION OF WELL

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



227226

FINAL STATUS OF WELL

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

WATER USE

☑ Domestic ☐ Stock ☐ Irrigation ☐ Industrial ☐ Commercial ☐ Municipal ☐ Public supply ☐ Cooling & air conditioning ☐ Not use ☐ Other

METHOD OF CONSTRUCTION

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

Name of Well Contractor	Well Contractor's Licence No.
PRINCE EDWARD WELL DRILLERS	6005
Address: RR3 PICTON K0K 2T0	
Name of Well Technician: GLENDON McKEE	Well Technician's Licence No. T2826
Signature of Technician/Contractor: [signature]	Submission date day 03 mo 08 yr 01

MINISTRY USE ONLY

Data source | Contractor 6005 | Date received AUG 24 2001
Date of inspection | Inspector
Remarks

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Ontario Ministry of the Environment

The Ontario Water Resources Act
WATER WELL RECORD

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

11 | 5306976 | Municipality 53003 | Con. GORE

County or District	Township/Borough/City/Town/Village	Con block tract survey etc.	Lot
PRINCE EDWARD	HALLOWELL	GORE	
[redacted]	Address RR1 BLOOMFIELD K0K 1G0	Date completed 29 day 06 month 02 year	

21 | 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	To
BROWN	CLAY	STONES		0	4
GREY				4	60

31

32

WATER RECORD (41)

Water found at - feet	Kind of water
5	☑ Fresh ☐ Salty ☐ Sulphur ☐ Minerals ☐ Gas
	☐ Fresh ☐ Salty ☐ Sulphur ☐ Minerals ☐ Gas
	☐ Fresh ☐ Salty ☐ Sulphur ☐ Minerals ☐ Gas
	☐ Fresh ☐ Salty ☐ Sulphur ☐ Minerals ☐ Gas
	☐ Fresh ☐ Salty ☐ Sulphur ☐ Minerals ☐ Gas

CASING & OPEN HOLE RECORD (51)

Inside diam inches	Material	Wall thickness inches	Depth - feet From	To
6 1/8	☐ Steel ☐ Galvanized ☐ Concrete ☑ Open hole ☐ Plastic		0	60
	☐ Steel ☐ Galvanized ☐ Concrete ☐ Open hole ☐ Plastic			
	☐ Steel ☐ Galvanized ☐ Concrete ☐ Open hole ☐ Plastic			

SCREEN

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

PLUGGING & SEALING RECORD (61)

☐ Annular space ☑ Abandonment

Depth set at - feet From	To	Material and type (Cement grout, bentonite, etc.)
60	0	CONCRETE

PUMPING TEST (71)

Pumping test method ☐ Pump ☐ Bailer | Pumping rate GPM | Duration of pumping Hours Mins

Static level feet | Water level end of pumping feet | Water levels during ☐ Pumping ☐ Recovery: 15 minutes feet, 30 minutes feet, 45 minutes feet, 60 minutes feet

If flowing give rate GPM | Pump intake set at feet | Water at end of test ☐ Clear ☐ Cloudy

Recommended pump type ☐ Shallow ☐ Deep | Recommended pump setting feet | Recommended pump rate GPM

ABANDONED PLUGGED BY OWNER

FINAL STATUS OF WELL

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

WATER USE

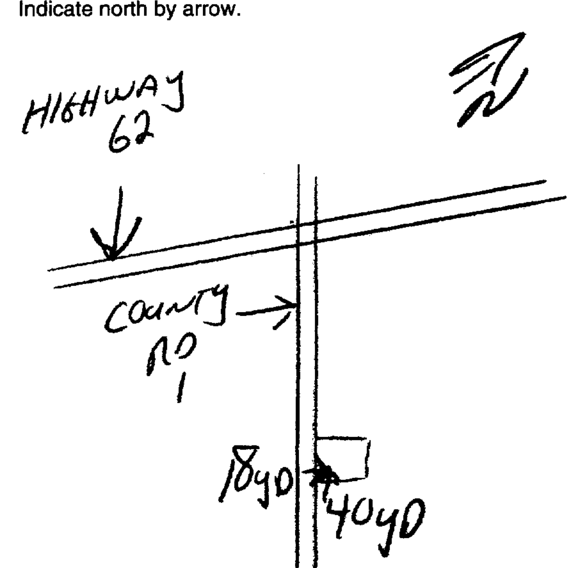
☐ Domestic ☐ Stock ☐ Irrigation ☐ Industrial ☐ Commercial ☐ Municipal ☐ Public supply ☐ Cooling & air conditioning ☐ Not use ☐ Other

METHOD OF CONSTRUCTION

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

LOCATION OF WELL

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



242873

Name of Well Contractor	Well Contractor's Licence No.
PRINCE EDWARD WELL DRILLERS	6005
Address RR3 PICTON K0K 2T0	
Name of Well Technician GLENDON MCKEE	Well Technician's Licence No. T2826
Signature of Technician/Contractor (signed)	Submission date day 29 mo 06 yr 02

MINISTRY USE ONLY

Data source	Contractor 6005	Date received JUL 10 2002
Date of inspection	Inspector	
Remarks	CSS.ES2	

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Ontario **Ministry of the Environment**

The Ontario Water Resources Act
WATER WELL RECORD

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

11 (1 2) **5306979**

Municipality (10 14) 53003 Con. (15 22 23 24) GORE

County or District	Township/Borough/City/Town/Village	Con block tract survey, etc.	Lot (25-27)
PRINCE EDWARD	HALLOWELL	GORE	E
[redacted] Address	RR1 BLOOMFIELD K0K1G0	Date completed (48-53) 29 day 06 month 02 year	

21 (1 2) UTM (10 12 17) Northing (18 24) RC (25) Elevation (26) RC (30) Basin Code (31 47) i ii iii iv

LOG OF OVERBURDEN AND BEDROCK MATERIALS (see instructions)

General colour	Most common material	Other materials	General description	Depth - feet From	Depth - feet To
BROWN	CLAY	STONES	SOFT	0	6
GREY	LIMESTONE		HARD	6	42

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

32

41 WATER RECORD

Water found at - feet	Kind of water
5 (10-13)	1 ☑ Fresh 2 ☐ Salty 3 ☐ Sulphur 4 ☐ Minerals 5 ☐ Gas (14)
12 (15-18)	1 ☐ Fresh 2 ☐ Salty 3 ☐ Sulphur 4 ☐ Minerals 5 ☐ Gas (19)
(20-23)	1 ☐ Fresh 2 ☐ Salty 3 ☐ Sulphur 4 ☐ Minerals 5 ☐ Gas (24)
(25-28)	1 ☐ Fresh 2 ☐ Salty 3 ☐ Sulphur 4 ☐ Minerals 5 ☐ Gas (29)
(30-33)	1 ☐ Fresh 2 ☐ Salty 3 ☐ Sulphur 4 ☐ Minerals 5 ☐ Gas (34) (60)

51 CASING & OPEN HOLE RECORD

Inside diam inches	Material	Wall thickness inches	Depth - feet From	Depth - feet To
8 (10-11)	1 ☐ Steel 2 ☐ Galvanized 3 ☐ Concrete 4 ☑ Open hole 5 ☐ Plastic (12)		0	10 (13-16)
6 1/4 (17-18)	1 ☑ Steel 2 ☐ Galvanized 3 ☐ Concrete 4 ☐ Open hole 5 ☐ Plastic (19)	.188	0	10 (20-23)
6 1/8 (24-25)	1 ☐ Steel 2 ☐ Galvanized 3 ☐ Concrete 4 ☑ Open hole 5 ☐ Plastic (26)		10	42 (27-30)

SCREEN

Sizes of opening (Slot No.) (31-33)	Diameter (34-38) inches	Length (39-40) feet
Material and type	Depth at top of screen (41-44) feet	(30)

61 PLUGGING & SEALING RECORD

☑ Annular space ☐ Abandonment

Depth set at - feet From	Depth set at - feet To	Material and type (Cement grout, bentonite, etc.)
10 (10-13)	0 (14-17)	CEMENT GROUT
(18-21)	(22-25)	
(26-29)	(30-33) (80)	

71 PUMPING TEST

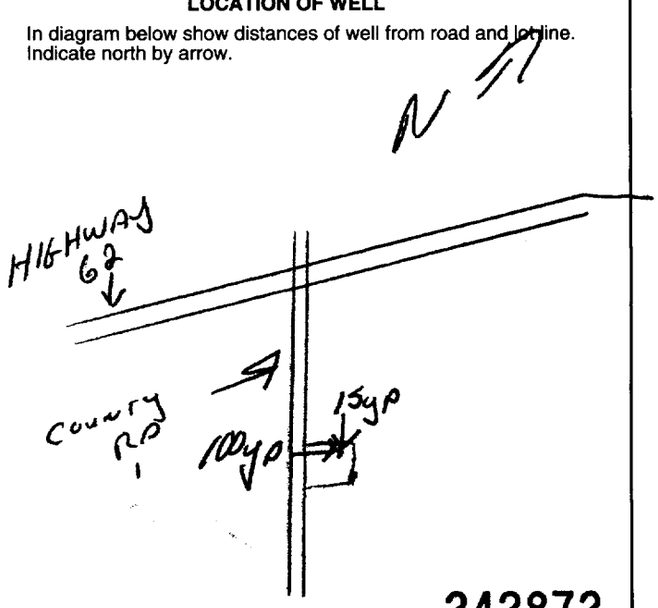
Pumping test method (10)	Pumping rate	Duration of pumping (15-16 Hours) (17-18 Mins)
1 ☐ Pump 2 ☑ Bailer	7 G.P.H. GPM	1 Hours

Static level (19-21) feet	Water level end of pumping (22-24) feet	Water levels during (25) 1 ☐ Pumping 2 ☐ Recovery: 15 minutes (26-28) feet	30 minutes (29-31) feet	45 minutes (32-34) feet	60 minutes (35-37) feet
	SUFFICIENT SUPPLY				

If flowing give rate (38-42) GPM	Pump intake set at feet	Water at end of test (42) ☐ Clear ☐ Cloudy
Recommended pump type ☐ Shallow ☐ Deep (50-53)	Recommended pump setting (43-45) feet	Recommended pump rate (46-49) GPM

LOCATION OF WELL

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



242872

FINAL STATUS OF WELL (54)

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

WATER USE (55-56)

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

METHOD OF CONSTRUCTION (57)

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

Name of Well Contractor	Well Contractor's Licence No.
PRINCE EDWARD WELL DRILLERS	6005
Address: RR3 PICTON K0K2T0	
Name of Well Technician: GLENDON MCKEE	Well Technician's Licence No. T2826
Signature of Technician/Contractor: Glendon McKee	Submission date: day 25 mo 06 yr 02

MINISTRY USE ONLY

Data source (58)	Contractor (59-62)	Date received (63-68) (80)
	6005	JUL 10 2002
Date of inspection	Inspector	
Remarks: CSS.ES2		

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Ontario Ministry of the Environment

The Ontario Water Resources Act
WATER WELL RECORD

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

11 (1 2)

5307047

Municipality 53003 (10 14) Con. (15 22 23 24)

County or District	Township/Borough/City/Town/Village	Con block tract survey, etc.	Lot (25-27)
PRINCE EDWARD	HALLOWELL	IRUINE GORE	65

[redacted] Address P.O. BOX 2000 TRENTON K8V 6K7 — Date completed 22 day 09 month 02 year (48-53)

21 (1 2) — UTM (10 12 17) — Northing (18 24) — RC (25) — Elevation (26) — RC (30) — Basin Code (31) — ii — iii — iv (47)

LOG OF OVERBURDEN AND BEDROCK MATERIALS (see instructions)

General colour	Most common material	Other materials	General description	Depth - feet From	Depth - feet To
BROWN	SANDY LOAM	CHAJ STONES	SOFT	0	4
BROWN	SHALE		LOOSE	4	6
GREY	LIMESTONE		HARD	6	100

31

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

41 WATER RECORD

Water found at - feet	Kind of water
10-13	1 ☐ Fresh 2 ☐ Salty 3 ☐ Sulphur 4 ☐ Minerals 5 ☐ Gas (14)
15-18	1 ☐ Fresh 2 ☐ Salty 3 ☐ Sulphur 4 ☐ Minerals 5 ☐ Gas (19)
20-23	1 ☐ Fresh 2 ☐ Salty 3 ☐ Sulphur 4 ☐ Minerals 5 ☐ Gas (24)
25-28	1 ☐ Fresh 2 ☐ Salty 3 ☐ Sulphur 4 ☐ Minerals 5 ☐ Gas (29)
30-33	1 ☐ Fresh 2 ☐ Salty 3 ☐ Sulphur 4 ☐ Minerals 5 ☐ Gas (34)

(60)

51 CASING & OPEN HOLE RECORD

Inside diam inches	Material	Wall thickness inches	Depth - feet From	Depth - feet To
10-11 6 8	1 ☐ Steel (12) 2 ☐ Galvanized 3 ☐ Concrete 4 ☐ Open hole 5 ☐ Plastic		0	100 (13-16)
17-18	1 ☐ Steel (19) 2 ☐ Galvanized 3 ☐ Concrete 4 ☐ Open hole 5 ☐ Plastic			(20-23)
24-25	1 ☐ Steel (26) 2 ☐ Galvanized 3 ☐ Concrete 4 ☐ Open hole 5 ☐ Plastic			(27-30)

SCREEN

Sizes of opening (Slot No.) (31-33)	Diameter inches (34-38)	Length feet (39-40)
Material and type	Depth at top of screen feet (41-44)	(30)

61 PLUGGING & SEALING RECORD

☐ Annular space ☑ Abandonment

Depth set at - feet From	Depth set at - feet To	Material and type (Cement grout, bentonite, etc.)
10-13 100	14-17 0	CEMENT, CONCRETE
18-21	22-25	
26-29	30-33	(80)

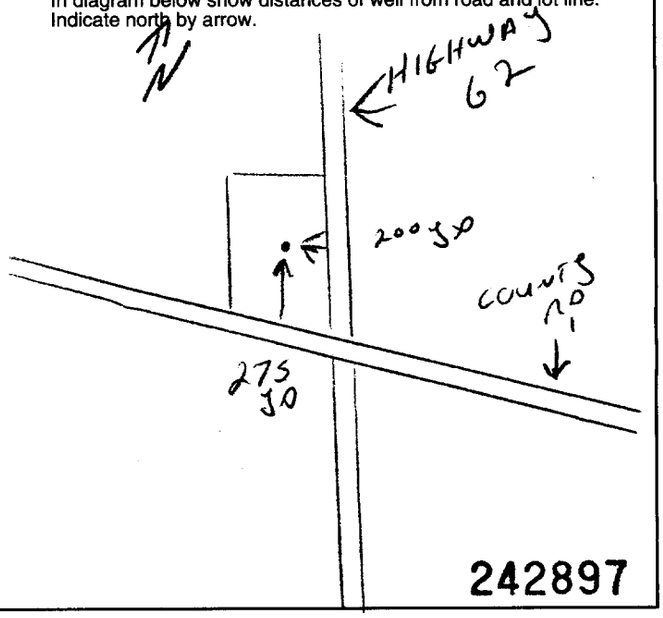
71 PUMPING TEST

Pumping test method (10) 1 ☐ Pump 2 ☐ Bailer	Pumping rate (11-14) GPM	Duration of pumping (15-16) Hours (17-18) Mins
Static level (19-21) feet	Water level end of pumping (22-24) feet	Water levels during (25) 1 ☐ Pumping 2 ☐ Recovery
15 minutes (26-28) feet	30 minutes (29-31) feet	45 minutes (32-34) feet / 60 minutes (35-37) feet
If flowing give rate (38-41) GPM	Pump intake set at feet	Water at end of test (42) ☐ Clear ☐ Cloudy
Recommended pump type ☐ Shallow ☐ Deep	Recommended pump setting (43-45) feet	Recommended pump rate (46-49) GPM

(50-53)

LOCATION OF WELL

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



242897

FINAL STATUS OF WELL (54)

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

WATER USE (55-56)

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

METHOD OF CONSTRUCTION (57)

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

Name of Well Contractor	Well Contractor's Licence No.
PRINCE EDWARD WELL DRILLERS	6005
Address: RR3 PICTON K0K 2T0	
Name of Well Technician: GLENDON MCKEE	Well Technician's Licence No.: T2826
Signature of Technician/Contractor: Glendon McKee	Submission date: day 22 mo 09 yr 02

MINISTRY USE ONLY

Data source (58)	Contractor (59-62)	Date received (63-68) (80)
	6005	NOV 04 2002
Date of inspection	Inspector	
Remarks	CSS.ES2	

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Ontario Ministry of the Environment

Well T... A042626 ...mber below)

A042626

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 | CON | LOT

Well Owner's Information and Location of Well Information

[redacted]

Address of Well Location (County/District/Municipality): PRINCE EDWARD

Township: HALLOWELL

Lot: PT 1

Concession: GRAND GORE

RR#/Street Number/Name: 1540 HIGHWAY 62

City/Town/Village:

Site/Compartment/Block/Tract etc.: LRCP29

GPS Reading: NAD 83 | Zone 18 | Easting 316941 | Northing 4875816

Unit Make/Model: GARMIN NUVO

Mode of Operation: ☑ Undifferentiated ☐ Averaged ☐ Differentiated, specify

Log of Overburden and Bedrock Materials (see instructions)

General Colour	Most common material	Other Materials	General Description	Depth From	Depth To
BROWN	TOP-SOIL	STONES	SOFT	0	1.5
BROWN	SHALE		POROUS LOOSE	1.5	2.30
GREY	LIMESTONE		HARD	2.30	18.50

Hole Diameter

Depth From	Depth To	Diameter Centimetres
0	18.50	15.23

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

Casing

☐ Steel ☐ Fibreglass ☐ Plastic ☐ Concrete ☐ Galvanized

☐ 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	Draw Down Time min	Draw Down Water Level Metres	Recovery Time min	Recovery Water Level Metres
Pump intake set at - (metres)	Static Level			
Pumping rate - (litres/min)	1		1	
Duration of pumping ___hrs +___ min	2		2	
Final water level end of pumping ___metres	3		3	
Recommended pump type. ☐ Shallow ☐ Deep	4		4	
Recommended pump depth. ___metres	5		5	
Recommended pump rate. (litres/min)	10		10	
	15		15	
If flowing give rate - (litres/min)	20		20	
	25		25	
If pumping discontinued, give reason.	30		30	
	40		40	
	50		50	
	60		60	

Plugging and Sealing Record

☐ Annular space ☑ Abandonment

Depth set at - Metres From	Depth set at - Metres To	Material and type (bentonite slurry, neat cement slurry) etc.	Volume Placed (cubic metres)
18.50	1	CEMENT	1 m
1	50cm	BENTONITE CHIPS	.70 FT 3
50	0	SAND+GRAVEL	.70 FT 3

Method of Construction

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

Water Use

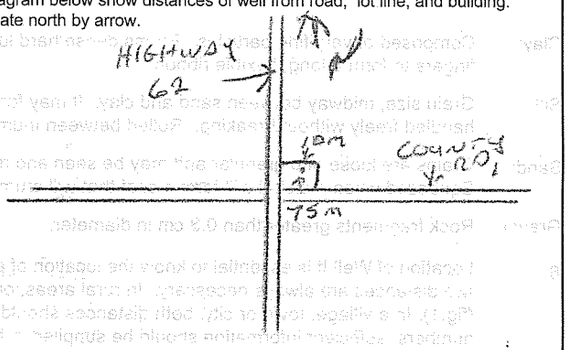
☐ Domestic ☐ Industrial ☐ Public Supply ☐ Other
☐ Stock ☐ Commercial ☐ Not used
☐ Irrigation ☐ Municipal ☐ Cooling & air conditioning

Final Status of Well

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

Location of Well

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



Well Contractor/Technician Information

Name of Well Contractor: PRINCE EDWARD WELL DRILLERS

Well Contractor's Licence No.: 6005

Business Address (street name, number, city etc.): RR3 PICTON K0K 2T0

Name of Well Technician (last name, first name): McKEE GLENDON

Well Technician's Licence No.: T2826

Signature of Technician/Contractor: X Glendon McKee

Date Submitted: YYYY 2007 | MM 2 | DD 27

Audit No.: Z 43399

Date Well Completed: YYYY 2007 | MM 02 | DD 21

Was the well owner's information package delivered? ☑ Yes ☐ No

Date Delivered: YYYY 2007 | MM 02 | DD 15

Ministry Use Only

Data Source | Contractor: 6005

Date Received: YYYY MM DD MAR 28 2007 | Date of Inspection: YYYY MM DD

Remarks | Well Record Number

0506E (09/03) Contractor's Copy ☐ Ministry's Copy ☐ Well Owner's Copy ☐ *Cette formule est disponible en français*

APPENDIX D
Test Well Drawdown and Recovery Data

ASC Environmental Inc.
1305 Princess Street,
Kingston, ON K7M 3E3
Tel: (613) 634-5596

Table 1. Water Quality Field Measurements.

ASC ENVIRONMENTAL	**Field Water Quality Analysis**				**Test Well:**	**TW1**	
	Project No.:	ASC-1080			Date:	9-Dec-25	
	Client:	Chris Walcott			Recorded By: T.C		
	Location:	2188 County Road 1, Prince Edward County, ON					
	Started pumping 48 L/min at 8:05 am, increased to 56 L/min at 11:30am						

Pumping Test Elapsed Time (min)	Odour	Temperature (°C)	pH	Conductivity (µS)	Total Dissolved Solids (ppm)	Turbidity NTU	Chlorine (Total) (mg/L)
5	Sl organic	10.3	7.27	2827	1414	8	N/A
30	Sl organic	9.7	7.44	1472	735	5	N/A
60	Sl organic	9.5	7.38	1526	763	9	N/A
90	Sl organic	Pump malfunction					N/A
205	Sl organic	Resume pumping					N/A
210	Sl organic	9.2	7.57	1384	690	0	N/A
240	Sl organic	9.1	7.29	1398	697	0	N/A
270	Sl organic	9.1	7.34	1392	696	0	N/A
300	Sl organic	9.1	7.37	1385	691	0	N/A
330	Sl organic	9.2	7.43	1382	693	0	N/A
360	Sl organic	9.2	7.46	1384	691	0	N/A
390	Sl organic	9.3	7.34	1382	675	0	N/A
420	Sl organic	9.2	7.29	1410	705	0	N/A
450	Sl organic	9.0	7.36	1412	708	0	N/A
475	Sl organic	PUMP OFF					
Notes	1. Well in-use at the time of test, no chlorination undertaken 2. Water was primarily clear						

Field Analysis Equipment	
Chlorine :	Hach DR 900 Colorimeter
Temp./pH/Cond./TDS :	Hanna Instruments HI98129
Turbidity :	Hach DR 900 Colorimeter

Table 2. Test Well drawdown during pumping test.

	Pumping Test - Drawdown		Test Well: TW1	
	Project No.:	ASC-1080	Date:	9-Dec-2025
	Client:	Chris Walcott	Recorded By: T.C	
	Location:	2188 County Road 1, Prince Edward County, Ontario		

Pumping Rate (Q) (L/min)	Elapsed Time (ET) (min)	Well Level (WL) (m)	Drawdown (DD) (m)
48	0	2.06	0.00
48	2	2.06	0.00
48	4	2.07	0.01
48	6	2.07	0.01
48	8	2.09	0.03
48	10	2.09	0.03
48	15	2.11	0.05
48	20	2.13	0.07
48	25	2.15	0.09
48	30	2.17	0.11
48	40	2.20	0.14
48	50	2.23	0.17
48	60	2.27	0.21
48	70	2.28	0.22
48	80	2.30	0.24
0	90	2.30	0.24
0	100	2.29	0.23
0	125	2.25	0.19
0	150	2.21	0.15
0	175	2.17	0.11
56	205	2.13	0.07
56	210	2.16	0.10
56	220	2.19	0.13
56	230	2.23	0.17
56	250	2.28	0.22
56	350	2.51	0.45
56	475	2.77	0.71

TW1	(m)		L/min	m^3/day
$\Delta s_{0\text{-}1min}$	2.06	$Q_{0\text{-}1min}$	48.00	69.1
$\Delta s_{1\text{-}10min}$	0.03	$Q_{1\text{-}10min}$	48.00	69.1
$\Delta s_{10\text{-}100min}$	0.24	$Q_{10\text{-}100min}$	43.00	61.9
$\Delta s_{100\text{-}1000min}$	0.91	$Q_{100\text{-}1000min}$	40.00	57.6

	m^2/day	m^2/s
$T_{0\text{-}1min}$	6.14	7.11E-05
$T_{1\text{-}10min}$	378.85	4.38E-03
$T_{10\text{-}100min}$	46.96	5.43E-04
$T_{100\text{-}1000min}$	11.63	1.35E-04

Notes			
1		Δs	Drawdown over one Log Cycle based on Trend Line
Q	Volumetric Flow Rate	L/min	Litres per Minute
T	Coefficient of Transmissivity	gpm	Gallon per Minute

ASC Environmental Inc.
ASC-1080, Chris Walcott, 2188 County Road 1,
Prince Edward County, ON
Figure 1. TW1 Pumping Test Drawdown

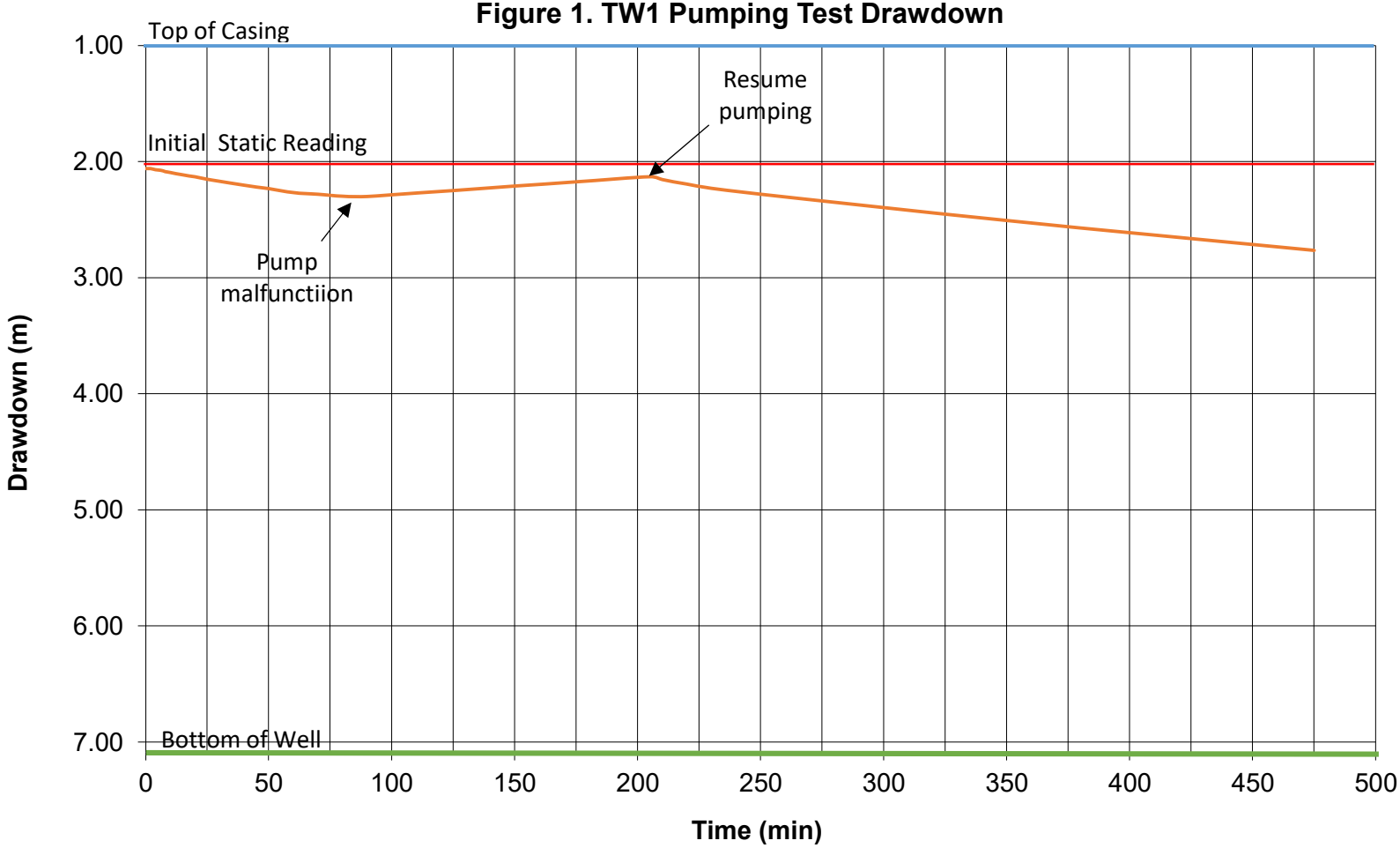


Table 3. Observation well drawdown during pumping test.

	Pumping Test - Drawdown		**Test Well:**	**TW1**
	Project No.:	ASC-1080	Date:	9-Dec-2025
	Client:	Chris Walcott	Pumping start time	
	Location:	2188 County Road 1, Prince Edward County, ON	8 5	AM

1533 Highway 62 (OW1)

WL (ft)	WL (m)	DD (m)	Time H:Min	ET (min)
8.136	2.480	0.000	7 16	0
8.136	2.480	0.000	9 16	71
8.136	2.480	0.000	12 14	249
8.136	2.480	0.000	13 16	311
8.136	2.480	0.000	14 16	371
8.136	2.480	0.000	15 16	431
8.136	2.480	0.000	16 21	496

2149 County Road 1 (OW2)

WL (ft)	WL (m)	DD (m)	Time H:Min	ET (min)
22.835	6.960	0.000	7 22	0
12.139	3.700	-3.260	9 12	67
24.442	7.450	0.490	12 10	245
18.537	5.650	-1.310	13 12	307
19.948	6.080	-0.880	14 12	367
22.507	6.860	-0.100	15 11	426
24.344	7.420	0.460	16 28	503

1540 Highway 62 (OW3)

WL (ft)	WL (m)	DD (m)	Time H:Min	ET (min)
8.760	2.670	0.000	7 32	0
8.760	2.670	0.000	9 15	70
8.760	2.670	0.000	12 12	247
8.760	2.670	0.000	13 14	309
8.760	2.670	0.000	14 14	369
8.760	2.670	0.000	15 13	428
8.760	2.670	0.000	16 24	499

Distance to Observation Wells (metres)

1533 Highway 62 (OW1)	170
2149 County Road 1 (OW2)	210
1540 Highway 62 (OW3)	130

ASC Environmental Inc.
ASC-1080, Chris Walcott, 2188 County Road 1,
Prince Edward County, ON
Figure 2. Pumping Test Influence on Neighbouring Wells
TW1 Pumping Test Zone of Influence

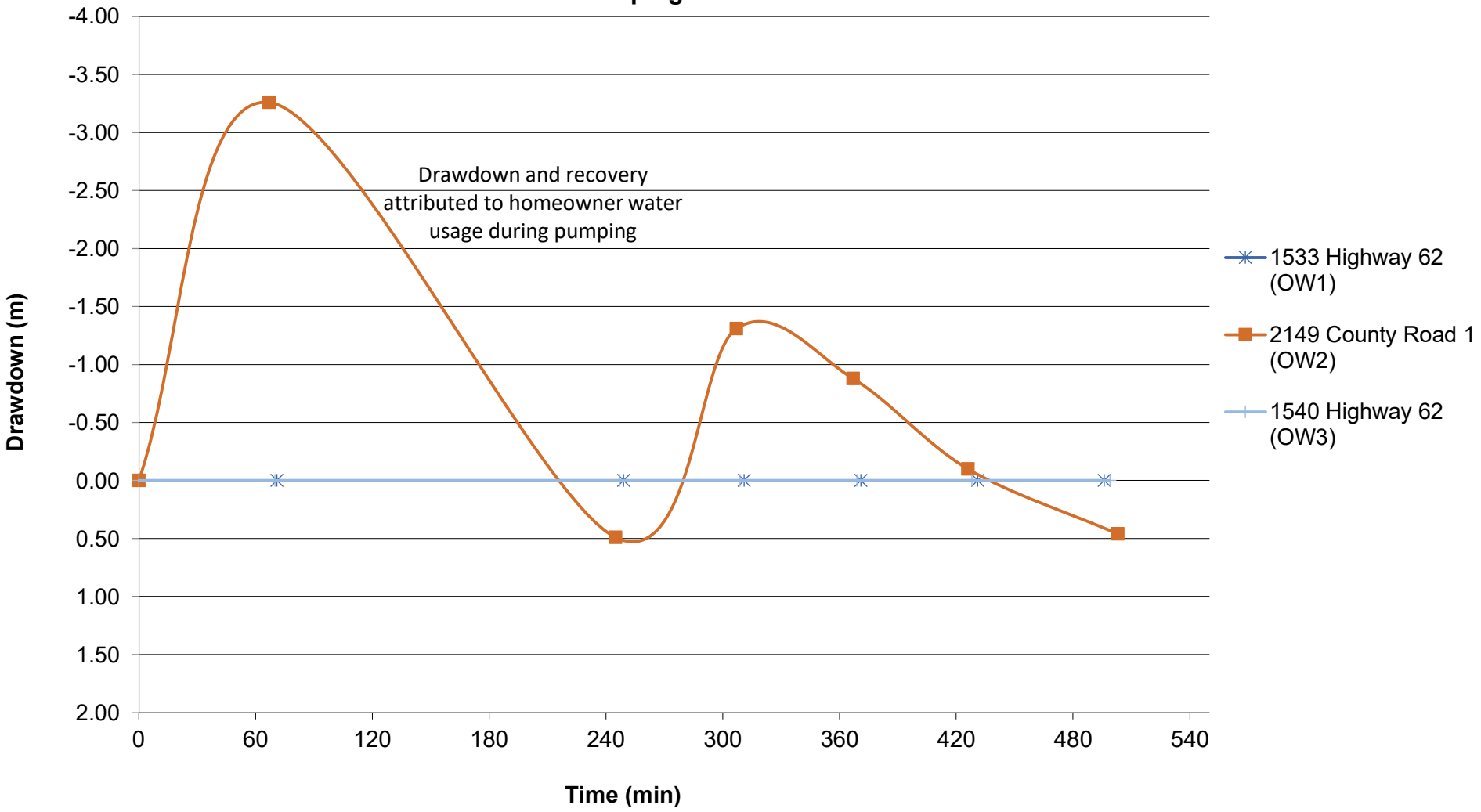
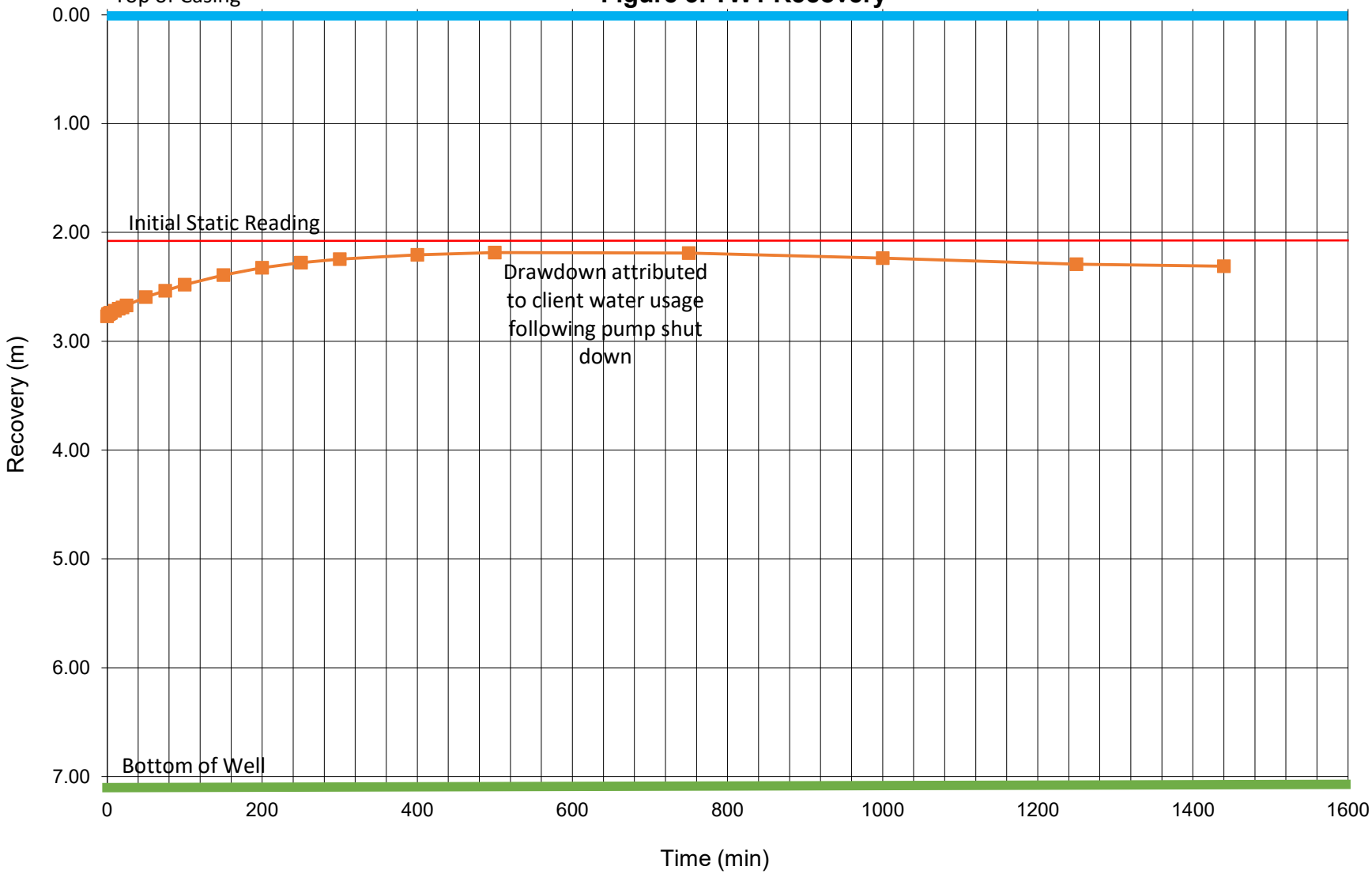


Table 4. Test well recovery after pumping test.

ASC ENVIRONMENTAL	**Pumping Test - Recovery**		**Test Well:**	**TW1**
	Project No.:	ASC-1080	Date:	9-Dec-25
	Client:	Chris Walcott		Recorded By: T.C
	Location:	2188 County Road 1, Prince Edward County, ON		

		Test Well	
Pumping	Elapsed Time (min)	Well Level (WL) (m)	Drawdown (m)
0	0	2.77	0.71
0	1	2.75	0.69
0	2	2.75	0.69
0	3	2.75	0.69
0	4	2.74	0.68
0	5	2.74	0.68
0	10	2.72	0.66
0	15	2.70	0.64
0	20	2.69	0.63
0	25	2.67	0.61
0	50	2.60	0.54
0	75	2.54	0.48
0	100	2.48	0.42
0	150	2.39	0.33
0	200	2.32	0.26
0	250	2.28	0.22
0	300	2.25	0.19
0	400	2.21	0.15
0	500	2.18	0.12
0	750	2.19	0.13
0	1000	2.24	0.18
0	1250	2.29	0.23
0	1440	2.31	0.25
WL at 95% Recovery =		2.09	
Notes		Well in-use following the completion of the pumping test, maximum observed recovery within 24 hrs (83%)	

ASC Environmental Inc.
ASC-1080, Chris Walcott, 2188 County Road 1,
Prince Edward County, ON
Figure 3. TW1 Recovery



APPENDIX E
Laboratory Analytical Certificates

ASC Environmental Inc.
1305 Princess Street,
Kingston, ON K7M 3E3
Tel: (613) 634-5596

CADUCEON ENVIRONMENTAL LABORATORIES

Client committed. Quality assured. Proudly Canadian.

CERTIFICATE OF ANALYSIS

Final Report

C.O.C.: G138567

REPORT No: 25-037861 - Rev. 0

Report To:
ASC Environmental
1305 Princess St.
Kingston, ON K7M 3E3

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

Attention: Tanner Cook

DATE RECEIVED: 2025-Dec-10
DATE REPORTED: 2025-Dec-16
SAMPLE MATRIX: Ground Water

CUSTOMER PROJECT: ASC-1080
P.O. NUMBER:

Analyses	Qty	Site Analyzed	Authorized	Date Analyzed	Lab Method	Reference Method
Anions (Liquid)	1	OTTAWA	PCURIEL	2025-Dec-12	A-IC-01	SM 4110B
Colour (Liquid)	1	OTTAWA	STAILLON	2025-Dec-15	A-COL-01	SM 2120C
Cond/pH/Alk Auto (Liquid)	1	OTTAWA	AGRAF	2025-Dec-11	COND-02/PH-02/A LK-02	SM 2510B/4500H/ 2320B
Coliforms - DC Media (Liquid)	1	KINGSTON	BBURTCH	2025-Dec-10	ECTC-001	MECP E3407
DOC (Liquid)	1	OTTAWA	MMACMILLAN	2025-Dec-11	C-OC-01	EPA 415.2
Fecal Coliforms (Liquid)	1	KINGSTON	BBURTCH	2025-Dec-10	FC-001	SM 9222D
HPC MF (Liquid)	1	KINGSTON	BBURTCH	2025-Dec-10	HPC-001	SM 9215D
Ion Balance (Calc.)	1	OTTAWA	ASCHNEIDER		CP-028	MECP E3196
ICP/OES (Liquid)	1	OTTAWA	NSAUNDERS	2025-Dec-15	D-ICP-01	SM 3120B
Ammonia (Liquid)	1	KINGSTON	DCASSIDY	2025-Dec-11	NH3-001	SM 4500NH3
Phenols (Liquid)	1	KINGSTON	EHINCH	2025-Dec-15	PHEN-01	MECP E3179
Sulphide (Liquid)	1	KINGSTON	MWILSON	2025-Dec-10	H2S-001	SM 4500-S2
Tannins (Liquid)	1	KINGSTON	MWILSON	2025-Dec-15	TAN-001	SM 5550
TP & TKN (Liquid)	1	KINGSTON	YLIEN	2025-Dec-12	TPTKN-001	MECP E3516.2
Turbidity (Liquid)	1	OTTAWA	ABAILEY	2025-Dec-11	A-TURB-01	SM 2130B

R.L. = Reporting Limit
NC = Not Calculated
Test methods may be modified from specified reference method unless indicated by an *

Michelle Dubien
Data Specialist

Parameter	Units	R.L.	Client I.D.: TW1	Sample I.D.: 25-037861-1	Date Collected: 2025-12-09
Total Coliform (DC Media)	CFU/100mL	1	9		
E coli (DC Media)	CFU/100mL	1	0		
Background (DC Media)	CFU/100mL	1	>200		
Heterotrophic Plate Count	CFU/1mL	10	510		
Fecal Coliform	CFU/100mL	1	0		
Alkalinity(CaCO3) to pH4.5	mg/L	5	291		
TDS (Calc. from Cond.) (Calculated)	mg/L	3	923		
Conductivity @25°C	uS/cm	1	1690		
pH @25°C	pH units	-	7.45		
Colour	TCU	2	<2		
Turbidity	NTU	0.1	0.5		
Fluoride	mg/L	0.1	<0.1		
Chloride	mg/L	0.5	384		
Nitrate (N)	mg/L	0.05	6.29		
Nitrite (N)	mg/L	0.05	0.21		
Sulphate	mg/L	1	32		
Phosphorus (Total)	mg/L	0.01	0.05		
Total Kjeldahl Nitrogen	mg/L	0.1	0.3		
Ammonia (N)-Total (NH3+NH4)	mg/L	0.05	<0.05		
Dissolved Organic Carbon	mg/L	0.8	3.4		
Tannin & Lignin	mg/L	0.5	<0.5		

Michelle Dubien
Data Specialist

		Client I.D.	TW1
		Sample I.D.	25-037861-1
		Date Collected	2025-12-09
Parameter	**Units**	**R.L.**	-
Sulphide	mg/L	0.01	<0.01
Phenolics	mg/L	0.001	<0.001
Hardness (as CaCO3)	mg/L as CaCO3	0.02	395
Calcium	mg/L	0.02	139
Iron	mg/L	0.005	0.014
Magnesium	mg/L	0.02	11.6
Manganese	mg/L	0.001	0.002
Potassium	mg/L	0.1	7.9
Sodium	mg/L	0.2	172
Anion Sum (Calculated)	meq/L	-	17.8
Cation Sum (Calculated)	meq/L	-	15.6
% Difference (Calculated)	%	-	6.56
TDS (Ion Sum Calc) (Calculated)	mg/L	1	950
Conductivity Calc	µmho/cm	-	1700

Michelle Dubien
Data Specialist

CADUCEON ENVIRONMENTAL LABORATORIES
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CERTIFICATE OF ANALYSIS

Final Report

C.O.C.: G113047 **REPORT No: 25-039087 - Rev. 0**

Report To:
ASC Environmental
1305 Princess St.
Kingston, ON K7M 3E3

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

Attention: Tanner Cook

DATE RECEIVED: 2025-Dec-23
DATE REPORTED: 2025-Dec-29
SAMPLE MATRIX: Ground Water

CUSTOMER PROJECT: ASC-1080
P.O. NUMBER:

Analyses	Qty	Site Analyzed	Authorized	Date Analyzed	Lab Method	Reference Method
Coliforms - DC Media (Liquid)	1	KINGSTON	BBURTCH	2025-Dec-23	ECTC-001	MECP E3407
Fecal Coliforms (Liquid)	1	KINGSTON	BBURTCH	2025-Dec-23	FC-001	SM 9222D

R.L. = Reporting Limit
NC = Not Calculated
Test methods may be modified from specified reference method unless indicated by an *

		Parameter	Total Coliform (DC Media)	E coli (DC Media)	Fecal Coliform
		Units	CFU/100mL	CFU/100mL	CFU/100mL
		R.L.	1	1	1
Client I.D.	Sample I.D.	Date Collected	-	-	-
TW1-2	25-039087-1	2025-Dec-22	0	0	0

Brandon Burtch
Microbiology Supervisor

APPENDIX F
Precipitation Data

ASC Environmental Inc.
1305 Princess Street,
Kingston, ON K7M 3E3
Tel: (613) 634-5596

Government of Canada / Gouvernement du Canada

Home › Environment and natural resources › Weather, Climate and Hazard › Past weather and climate › Historical Data

Daily Data Report for December 2025

BELLEVILLE
ONTARIO
Current Station Operator: CCN

Latitude: 44°09'02.052" N

Longitude: 77°23'41.046" W

Elevation: 76.20 m

Climate ID: 6150689

WMO ID:

TC ID:

DAY	Max Temp °C	Min Temp °C	Mean Temp °C	Heat Deg Days	Cool Deg Days	Total Rain mm	Total Snow cm	Total Precip mm	Snow on Grnd cm	Dir of Max Gust 10's deg	Spd of Max Gust km/h
01 †	-3.0	-7.0	-5.0	23.0	0.0	0.0	1.2	1.2	T		
02 †	0.0	-6.5	-3.3	21.3	0.0	0.0	0.0	0.0	1		
03 †	2.5	-10.0	-3.8	21.8	0.0	0.0	T	T	T		
04 †	0.0	-13.0	-6.5	24.5	0.0	0.0	0.2	0.2	T		
05 †	1.0	-16.0	-7.5	25.5	0.0	0.0	T	T	T		
06 †	2.5	-2.0	0.3	17.7	0.0	0.0	0.2	0.2	T		
07 †	-4.0	-12.5	-8.3	26.3	0.0	0.0	3.8	3.8	T		
08 †	-6.0	-18.0	-12.0	30.0	0.0	0.0	2.0	2.0	7		
09 †	0.5	-17.5	-8.5	26.5	0.0	0.0	5.2	5.2	M		
10 †	0.5	-2.0	-0.8	18.8	0.0	0.0	9.6	9.6	13		
11 †	-6.5	-14.0	-10.3	28.3	0.0	0.0	0.0	0.0	16		
12 †	-0.5	-13.0	-6.8	24.8	0.0	0.0	0.2	0.2	17		
13 †	0.5	-7.0	-3.3	21.3	0.0	0.0	T	T	18		
14 †	-4.5	-12.0	-8.3	26.3	0.0	0.0	0.0	0.0	21		
15 †	-3.0	-12.5	-7.8	25.8	0.0	0.0	T	T	21		
16 †	4.5	-6.0	-0.8	18.8	0.0	0.0	0.0	0.0	18		
17											
18 †	9.5	-1.5	4.0	14.0	0.0	12.4	0.0	12.4	0		
19 †	9.0	-4.0	2.5	15.5	0.0	1.0	2.0	3.0	0		
20 †	9.0	-9.0	0.0	18.0	0.0	0.4	0.0	0.4	0		
21 †	-1.5	-8.0	-4.8	22.8	0.0	0.0	0.2	0.2	0		
22 †	2.5	-9.0	-3.3	21.3	0.0	0.6	0.0	0.6	0		
23 †	3.5	0.0	1.8	16.2	0.0	1.6	0.0	1.6	0		
24 †	1.0	-2.5	-0.8	18.8	0.0	0.0	0.0	0.0	0		

DAY	Max Temp °C	Min Temp °C	Mean Temp °C	Heat Deg Days	Cool Deg Days	Total Rain mm	Total Snow cm	Total Precip mm	Snow on Grnd cm	Dir of Max Gust 10's deg	Spd of Max Gust km/h
25 †	1.0	-8.5	-3.8	21.8	0.0	0.0	0.0	0.0	0		
26											
27 †	-7.0	-13.0	-10.0	28.0	0.0	0.0	0.0	0.0	15		
28											
29											
30 †	-7.0	-12.0	-9.5	27.5	0.0	0.0	0.0	0.0	4		
31 †	-3.5	-11.0	-7.3	25.3	0.0	0.0	2.4	2.4	4		
Sum				609.9^	0.0^	16.0^	27.0^	43.0^			
Avg	0.0^	-9.2^	-4.6^								
Xtrm	9.5^	-18.0^				12.4^	9.6^	12.4^		M	M

Summary, average and extreme values are based on the data above.

Legend

- A = Accumulated
- C = Precipitation occurred, amount uncertain
- E = Estimated
- F = Accumulated and estimated
- L = Precipitation may or may not have occurred
- M = Missing
- N = Temperature missing but known to be > 0
- S = More than one occurrence
- T = Trace
- Y = Temperature missing but known to be < 0
- [empty] = Indicates an unobserved value
- ^ = The value displayed is based on incomplete data
- † = Data that is not subject to review by the National Climate Archives

Date modified:

2025-12-16