Hydrogeology and Terrain Evaluation

Proposed Rural Residential Lots

3024 Old Beverly Road

TOWNSHIP OF NORTH DUMFRIES

June 26, 2026

Project # 26-6001A

GREER GALLOWAY

a division of Jp2g Consultants Inc.

Author and Review Panel

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Signatures

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1 Introduction

Greer Galloway, a division of Jp2g Consultants Inc. (Jp2g) was retained by 12649161 Canada Inc. to complete a water supply and terrain evaluation for a proposed report in support of a five-lot severance (plus one retained parcel) at 3024 Old Beverly Road, Township of North Dumfries, Regional Municipality of Waterloo.

The purpose of the work was to demonstrate the availability of sufficient potable groundwater supply to service the proposed new lots without adversely impacting surrounding wells; and to demonstrate that the property is able to accommodate private sewage treatment/disposal systems in accordance with Provincial standards without affecting surrounding private water sources.

2 Investigation Methods

The assessment was carried out in general accordance with the Ministry of the Environment, Conservation, and Parks (MECP) procedures D-5-4 (Individual On-Site Sewage Systems)[1] and D-5-5 (Private Well: Well Assessment)[2]. The proposed scope was provided to the Township's peer Reviewer and slight modifications were made as a result.

The investigation included a review of water well records, a review of available geologic and hydrogeologic information for the area, an inventory of water supply wells within a reasonable distance of the subject property, a pumping test on a new drilled well located on one of the proposed severed lots, along with a similar test on an existing well on another of the proposed lots. The investigation methods are described further in the following subsections.

2.1 Well Records Search and Survey

Information about nearby wells was obtained from available MECP water well records on the MECP wells database using a search radius of 500 m from the subject property. MECP Water Well Record sheets for the searched area are provided in Appendix A.

In January 2026, a door-to-door well survey was carried out for neighbouring wells within a 300 m radius of the subject property. Introductory letters were left at all residences at this time with a description of the proposed work and a request to contact Greer Galloway by email or phone to confirm water supply information and to indicate whether the homeowner would consent to have their well used as an observation well during the testing. No response was received from any of the neighbouring properties. Another attempt to contact the closest homeowners was made in May 2026 but again none of the adjacent homeowners were present.

2.2 Water Supply Assessment

2.2.1 Test Well 1 (A417126, 560059E; 4801235N).

A new well was drilled on May 20, 2026 by Martin Well Drilling Inc. of Alma, Ontario. The well was sited on proposed Lot 2 and was predicted, based on a review of well records for the area, to yield in excess of 45 L/m if completed within the upper Guelph Formation bedrock. This well is a nominal 150 mm diameter drilled well

[1] MECP (Ministry of Environment Conservation and Parks) 1996: D-5-4 Individual On-Site Sewage Systems: Water Quality Impact Risk Assessment.
[2] MECP (Ministry of Environment Conservation and Parks) 1996: D-5-5 Private Wells: Water Supply Assessment.

sourcing the bedrock aquifer beneath 23 m of overburden. The total well depth is 33.5 m with water reportedly found at the top of bedrock. The driller-reported yield was in excess of 90 L/min.

A 6-hour pumping test was completed on May 28, 2026. The test was initiated at 10:15 AM at a rate of 25±1 L/min. The pumping rate was checked periodically throughout the test using the time-volume method. Greer Galloway's datalogger optical interface malfunctioned so water levels were recorded manually during the testing. The discharge water was directed away from the pumped well a distance of approximately 30 m to the west (downgradient of the well). The water level observations during the test and the recovery period following the testing are included in Appendix B. The well was not chlorinated prior to the pumping test.

2.2.2 Test Well 2 (WWR# 6808737, 560127E; 4801141N).

A second six-hour test was completed for the existing well located at proposed Lot 5 (3024 Old Beverly Road). This well is a nominal 150 mm diameter drilled well sourcing the bedrock aquifer beneath 29 m of overburden (described as "grey clay with gravel and stones"). The total well depth is 30 m with water reportedly found at a the top of bedrock. The driller-reported yield was 136 L/min.

The well was located in a pit and it was used in this configuration as an observation well for the pumping test on TW-1 on May 28th. The well was subsequently converted to O.Reg. 903 Standards by welding a pitless adaptor to the existing casing and backfilling the pit before completing the pumping test on June 4, 2026.

A 6-hour pumping test was completed for TW-2 on June 4, 2026. The test was initiated at 10:40 AM at a rate of 25±15 L/min. The pumping rate was checked periodically throughout the test using the time-volume method. Water levels were recorded during the pumping and recovery using datalogging pressure transducers (Solinst Model 3001) set to 10 s intervals. The discharge water was directed away from the pumped well a distance of approximately 30 m to the east (downgradient of the well). The water level observations during the test and the recovery period following the testing are included in Appendix B. The well was not chlorinated prior to the pumping test.

2.3 Water Quality Assessment

A groundwater sample was obtained during the last hour of each pumping test. The sample was placed into a variety of laboratory-prepared sample containers that were sealed, placed into a cooler with ice packs to maintain a temperature of approximately 4 ^{o}C, and transported to Caduceon Laboratories in Kingston, Ontario. Analytical parameters included E. coli and Total Coliform bacteria and a variety of additional parameters including Alkalinity, pH, Conductivity, Colour, Turbidity, Fluoride, Chloride, Nitrite and Nitrate, Sulphate, DOC, Hardness, Iron, Magnesium, Manganese, and Sodium (refer to the Laboratory Certificates of Analysis in Appendix C).

3 Summarized Findings

3.1 Site Description

The approximately 11 ha property is located at 3024 Old Beverly Road, Part of Lot 9, RP 67R834 Part 1, Township of North Dumfries, County of Dufferin. The rectangular property is located at the east limit of the City of Cambridge, approximately 4.5 km east of Cambridge Downtown and approximately 20 km south of the City of Guelph. The property is just outside of the City of Cambridge. It is bounded to the north by agricultural land,

rural residential development and forest; to the south by Old Beverly Road, forest, commercial and rural development; to the east by North Dumfries Township Road 17, agricultural land and rural development; and to the west by Robinson Road, and residential development.

There is a dwelling and a garage on the property. On the east side of the property, there is an abandoned agricultural field, the rest of the property is vegetated. The existing dwelling and driveway will be within the largest lot located on the southwest part of the property. The other four (4) lots will have access from Robinson Road. A new driveway will be needed for each of these lots. Future residential development in four of the severed lots and retained land will be serviced by private wells and septic systems.

The topography on the property is gently undulating. Elevations in the property were determined from the Ontario Base Mapping (MNRF), ranging from 295 to 300 metres Above Sea Level (mASL). The highest elevation is reported in the east part of the property in the form of a small ridge. The lowest elevation is reported along the central part of the property. Local drainage is either towards Robinson Road or eastward to a low wetland area within the central portion of the property.

The area is north of direct lake effects and is characterized by cool winters and relatively warm humid summers. Snow typically occurs during 5 months of the year from December to April with lake effect precipitation resulting in variable levels of winter precipitation from year to year. Precipitation is approximately 900 mm/a with an average annual evapotranspiration (ET) of about 500 mm/a.

Mapping shows primarily surficial soils classified as silty sand to silt-textured till (OGS, 2011[3]). Infiltration factors for the area were calculated as per the Ontario Ministry of the Environment 1995 Hydrogeological Technical Information Requirements for Land Development Applications.

It is based on three sub-factors which are:

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

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

Table 1: Estimated Infiltration Factors

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

[3] Ontario Geological Survey (OGS), 2011. 1:250 000 Scale Bedrock Geology of Ontario, Miscellaneous Release – Data 126 – Revision 1.

Site Characteristic	Infiltration Factor
Woodland	**0.2**
Sum of Infiltration Factors	**0.6**

Given an average annual moisture surplus (P-ET) of approximately 400 mm, we estimate an average annual infiltration of approximately 240 mm for the subject property.

3.2 Geology and Hydrogeology

Overburden deposits in the study area were formed by glacial processes during the Wisconsinan glaciation approximately 12,000 to 25,000 years before present. Thick glacial ice sheets (lobes) advanced several times into the southern part of Ontario from various directions and then receded, creating the present configuration of till sheets, moraines, abandoned spillways, drumlins, eskers, abandoned shorelines, and various stillwater sediments.

The study area is located within the eastern edge of the physiographic region described by Chapman and Putnam (1984) as the Waterloo Hills. The surficial deposits within the area are primarily till plain with alluvial deposits of silt, sand, and gravel were laid down locally by meltwater during deglaciation of the area and organic soils occur within low-lying or poorly drained areas. The Quaternary Geology Map of the Cambridge Area (Ontario Geological Survey Map 2508) shows that the area is underlain by deposits of the sandy silt Port Stanley Till.

Bedrock of the Silurian age Guelph Formation is found at depths of approximately 30 m beneath the site. The Guelph Formation typically consists of brown to beige dolostone with a fine to medium crystalline structure.

Twenty-eight (28) well records were obtained from the general area of the proposed severances with 24 of these containing useful information. Yields ranged from 16 to >200 L/min with average and median yields of about 71 and 57 L/min respectively.

A summary of the water well data is included on the following table:

Table 2: Summary of well depths and yields within a 500 m radius of the property

Well No.	Water Found (m)	Static Level (m)	Yield (L/min)	Overburden Depth (m)	Hole Depth (m)	Water Type	Aquifer
6500545	5.5	0.0	204.3	24.4	25.0	Fresh	Overburden
6500543		0.0	204.3	30.2	48.5	Fresh	Bedrock
6505578	13.1	0.6	90.8	0.0	14.9	Fresh	Overburden
6505572		0.9	90.8		15.2	Fresh	Overburden
6808737	29.9	5.2	136.2	29.0	30.5	Fresh	Bedrock
7296945	25.9	5.2	45.4		25.9	Fresh	Overburden
6508648	26.5	3.7	68.1	23.5	27.1	Fresh	Bedrock
6508649	28.7	3.7	90.8	26.2	29.0	Fresh	Bedrock
7134794	28.0	6.4	68.1	25.0	28.3	Fresh	Bedrock
6505583	27.1	1.8	45.4	26.8	27.4	Fresh	Bedrock
7185276					6.1		Monitoring
7185275					6.1		Monitoring
7185277					6.1		Monitoring
6503841	12.5	4.9	45.4		12.5	Fresh	Overburden
6503835	32.3	0.9	45.4	29.3	32.9	Fresh	Bedrock
6500541	44.8	4.6	81.7	32.6	49.1	Fresh	Bedrock
6503039	24.4	2.1	15.9	0.0	25.0	Fresh	Overburden

Well No.	Water Found (m)	Static Level (m)	Yield (L/min)	Overburden Depth (m)	Hole Depth (m)	Water Type	Aquifer
6500542	30.5	3.0	36.3	27.4	33.5	Fresh	Bedrock
6503146	17.4	3.0	18.2		17.7	Fresh	Overburden
7194992							Abandonment
7181930	16.2	4.2	68.1		17.7	Fresh	Overburden
6508145	27.4	3.0	45.4		27.4	Fresh	Overburden
6500544	27.9	5.5	45.4		28.0	Fresh	Overburden
7294308	32.0	5.4	45.4	30.8	32.3	Fresh	Bedrock
6504079	19.2	5.2	22.7		19.2	Fresh	Overburden
6507294	25.0	2.4	68.1		25.0	Fresh	Overburden
6505663	30.5	7.6	68.1		32.0	Fresh	Overburden
6505574	32.0	4.3	45.4	31.1	32.3	Fresh	Bedrock

Individual well records are provided with this report as Appendix A.

Based on the recorded static levels and the topographic setting, the dominant deep groundwater flow direction in a southwesterly direction towards the Grand River valley. Shallow flow within overburden is governed by the local topography and generally parallels the surface drainage.

3.3 Water Availability

3.3.1 Test Well 1 (A417126)

Pumping was carried out over a 6-hour period. The flow rate was maintained at 25 L/min for the duration of the test. The final water level reading before the test was stopped was 4.60 m bgs, indicating a maximum drawdown of 0.2 m. A volume of 9,000 L was pumped from the well over the course of the test. 80% recovery of the water column was observed within 60 minutes of the end of the test. Water level measurements at the existing residential well (WWR# 6808737, 113 m to the southeast) yielded a nearly identical drawdown consistent with a high aquifer transmissivity. Hydrographs for this pumping test are included in Appendix B.

3.3.2 Test Well 2 (WWR# 6808737)

Pumping was carried out over a 6-hour period. The flow rate was maintained at 25 L/min for the duration of the test. The final water level reading before the test was stopped was 4.80 m bgs, indicating a maximum drawdown of 0.3 m. A volume of 9,000 L was pumped from the well over the course of the test. 80% recovery of the water column was observed within 60 minutes of the end of the test. Water level measurements at Well A417126 yielded a similar drawdown consistent with a high aquifer transmissivity. Hydrographs for this pumping test are included in Appendix B.

3.3.3 Adequacy of Supply

According to MECP Guideline D-5-5, the per-person requirement is 450 L/day (though recent data shows that actual per-person usage in Ontario is approximately 225 L/day), with peak demand occurring for a period of 120 minutes each day. Assuming a family of four, this is equivalent to a peak demand of 15 L/min. The wells on the subject property was able to sustain a yield exceeding this peak demand for a period of 6 hours, with rapid recovery.

The tested yields are considered to be representative, and wells completed within the upper bedrock aquifer are expected to support normal residential water demands throughout the year.

3.4 Water Quality

Groundwater was clear and free from any visible colour, sediment, turbidity and odour except for a noticeable iron taste and odour. A groundwater sample was obtained from each tested well just before the end of the pumping, and analyzed at Caduceon Laboratories Ltd. in Kingston, Ontario for selected parameters. Key results are summarized in Table 3, with exceedances being formatted in bold. The full results of this testing are included with the Laboratory Certificates of Analysis in Appendix C.

Table 3: Summary of key analytical results

Parameter	Units	RL	A417126 (May 28, 2026)	# 6808737 (June 4, 2026)	Limit (MECP D-5-5)
Bacteriological Parameters					
Total Coliform	cfu/100mL	1	0	0	0 (5)
E coli	cfu/100mL	1	0	0	0
Background	cfu/100mL	1	5	26	N/A
Physical/Chemical parameters with Health-related Criteria					
Turbidity (Laboratory)	NTU	0.1	**12**	**5.7**	5
Nitrite (N)	mg/L	0.1	<0.05	<0.05	1
Nitrate (N)	mg/L	0.1	<0.05	<0.05	10
Fluoride	mg/L	0.1	<0.1	<0.1	2.4
Physical/Chemical parameters with Aesthetic Criteria/Operational Guidelines					
Alkalinity (as $CaCO_3$)	mg/L	5	248	244	500^{OG}
pH @25°C	pH Units	-	8.07	7.99	$6.5 – 8.5^{OG}$
Chloride	mg/L	0.5	40.4	120	250^{AO}
Sulphate	mg/L	1	66	78	500^{AO}
Dissolved Organic Carbon	mg/L	0.2	2.8	2.8	5^{AO}
Hardness (as $CaCO_3$)	mg/L	1	345	426	100^{OG}
Iron	mg/L	0.005	**0.906**	**0.619**	0.3^{AO}
Manganese	mg/L	0.001	0.013	0.01	0.05^{AO}
Sodium	mg/L	0.2	11.1	38	200^{AO}

Water quality was good for all parameters except for turbidity which exceeded the health-related ODWS and for iron which exceeded the Aesthetic Objective in both wells. The groundwater exhibited elevated hardness as is ubiquitous for carbonate aquifers in this part of Ontario. Sodium at 38 mg/L exceeds the 20 mg/L threshold above which notification to the Medical Officer of Health is required for regulated systems so that sodium intake from drinking water may be taken into account for patients on a sodium restricted diet. However, this threshold is not a health-related standard, and the advisory requirement applies only to regulated water systems.

Treatment for elevated dissolved iron will be required as the observed levels are high enough that they would result in staining of fixtures as well as an unpleasant taste. Based on low field turbidity, we expect that the elevated laboratory turbidity is related to the elevated iron concentrations and reflects the precipitation of iron after sampling. This is a common occurrence, and we expect that the elevated turbidity will be eliminated through treatment for iron. Iron treatment systems are readily available and effective.

While no sulphide odour was noted in either well and sulphate concentrations are low, the bedrock aquifer in this area is prone to development of sulphate reducing bacteria over time and these may result in a detectable sulphide odour.

3.5 Potential for Well Interference

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

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

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

We note that the "radius of influence" in this simple calculation is actually the radius where natural recharge equals the amount pumped from the well. In a confined aquifer system, the influence of pumping a well may be observed in other wells at a considerable distance and near instantaneously.

To provide a more realistic assessment of the potential for interference between wells, we must add the transient effect of pumping to any secular decline in the water table attributable to water takings from the new wells. Figure B-6 (appendix B) shows brief transient effects of nearby well pumping amounting to about 0.02 m per pump cycle. Such transient effects will be reciprocal (i.e. pumping from wells at the new lots will cause a similar effect on neighbouring wells).

To estimate secular drawdown, we first used the Theim equation for a confined aquifer to determine the effective Transmissivity of the aquifer in the vicinity of the tested wells:

$$T = \frac{Q}{2\pi(s_1 - s_2)} ln\left(\frac{r_2}{r_1}\right) \qquad [2]$$

Where,

Q	= pumping rate (m^3/day);
T	= aquifer transmissivity (m^2/day),
S_1	= observed drawdown at observation well 1 (m)
S_2	= observed drawdown at observation well 2 (m)
r_1	= distance to observation well 1 (m)
r_2	= distance to observation well 2 (m)

Rearranging Equation [2] in terms of Q gives:

$$Q = 2\pi T \frac{(s_1 - s_2)}{ln\left(\frac{r_2}{r_1}\right)} \qquad [3]$$

Since the values for Q, s and r are known, we can use Equation 3 to solve for T. This results in Transmissivity of greater than 300 m^2/day.

Applying the Theis analytical solution, the lateral extent of groundwater level drawdown can be estimated as follows:

$$s(r,t) = \frac{Q}{4\pi T} W\left(\frac{r^2 S}{4Tt}\right) \qquad [4]$$

where $s(r,t)$ = drawdown at distance (r) and time (t = 365 days) after the start of pumping, and

Q = average pumping rate for five new homes (5 m^3/day);

T = aquifer transmissivity (300 m^2/day);

S = aquifer storativity (an estimate of 0.01); and

W = Theis well function.

Under these assumptions the pumping of 5 m^3/day for one year yields a maximum drawdown of less than 0.1 m at 70 m (the approximate distance to the nearest well). Given the minimal predicted drawdown and the depth of the wells, we do not consider well interference to be a concern for the proposed severances.

3.8 Onsite Sewage Treatment

The proposed new lots range from 0.93 to 1.73 ha in area. The average lot size is greater than 1 ha with none of the individual lots being smaller than 0.9 ha, and as such, the risk of contamination of neighbouring properties via nitrate-rich sewage effluent is considered to be low under MECP Guideline D-5-4.

For comparison purposes, we have calculated the concentration of nitrate at the property boundary for the smallest of the new lots according to:

$$C_T = \frac{(Q_O \times C_O) + (Q_O \times C_{bk}) + (Q_R \times C_R)}{Q_R + Q_O} \qquad [5]$$

Where:

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

Q_O = Sewage Effluent Volume (L/day)

C_O = Nitrate concentration of sewage effluent (mg/L as N)

C_{bk} = Nitrate concentration in background groundwater (mg/L as N)

Q_R = Groundwater recharge or precipitation infiltration (L/day)

C_R = Nitrate concentration of groundwater recharge (mg/L as N)

Each of these parameters are discussed as follows:

Q_O – Daily sewage flows will be dependent on the number of persons at each residence. Based on a 4 to 5 person household, the daily flow per lot is 1 m^3/day (1,000 L/day).

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

C_{bk} – Background nitrate levels of 0mg/L were detected from the samples taken during the pumping tests.

Q_R - A groundwater recharge rate of 240 mm/year and an area of 0.93 ha yields a groundwater recharge of 6,115 L/day.

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

C_T - The calculated groundwater nitrate at the property boundary.

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

$$C_T = \frac{(1{,}000L \times 40\ mg/L) + (1{,}000 \times 0.0\ mg/L) + (6115 \times 0\ mg/L)}{6{,}115 + 1{,}000} = 5.6\ \text{mg/L}$$

The site conditions are considered suitable for private sewage treatment systems and the thick low-permeability overburden deposits provide good protection to the water supply aquifer. The generally low permeability of the shallow overburden will require the use of a raised septic system. A standard filter bed sufficient to service a three-bedroom home will require a footprint of approximately 15 x 24 m. Any system must be constructed in accordance with Section 8 of the Ontario Building Code and must meet the setback distances outlined in Table 4.

Table 4: Minimum Clearances for Distribution Piping

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

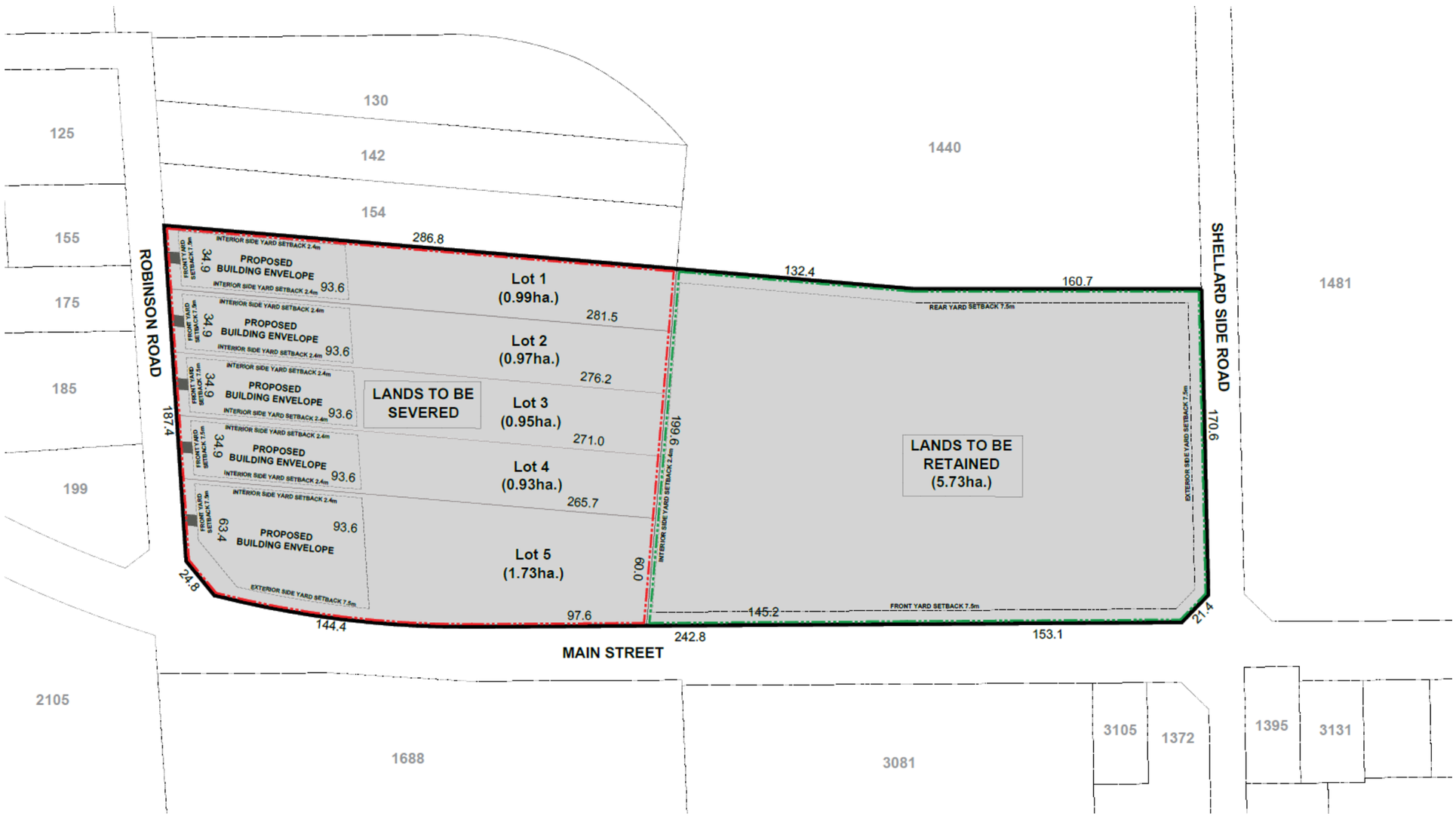
Based on the topography of the property we recommend that water supply wells be drilled in the west part of the new lots with septic systems located in the east (i.e. downgradient).

4 Summary

The purpose of this study was to determine whether the proposed new residential lots are likely to obtain adequate quantities of potable water over both the short and long term without water quantity interference conflicts with users on the adjoining lands. The study was carried out in general accordance with the Ministry of the Environment, Conservation and Parks (MECP) Procedure D-5-4 (Individual On-Site Sewage Systems) and Procedure D-5-5 (Private Wells: Water Supply Assessment).

Our assessment found the following:

1. The upper bedrock aquifer is able to meet normal residential water demands for the proposed new lots without adversely affecting existing water users in the area.
2. Based on our calculations and the proximity of the nearest wells, well interference problems are not anticipated for the proposed severances.
3. Water quality results from the samples taken during the pumping tests showed generally good water quality, with no exceedances of any parameters under MECP Guideline D-5-5 apart from iron and iron-related turbidity. Water treatment for iron is recommended as is ultraviolet sterilization.
4. The proposed new lots are large enough to accommodate private septic systems without exceeding nitrate loading limits established in MECP Guideline D-5-4.



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NOTES:

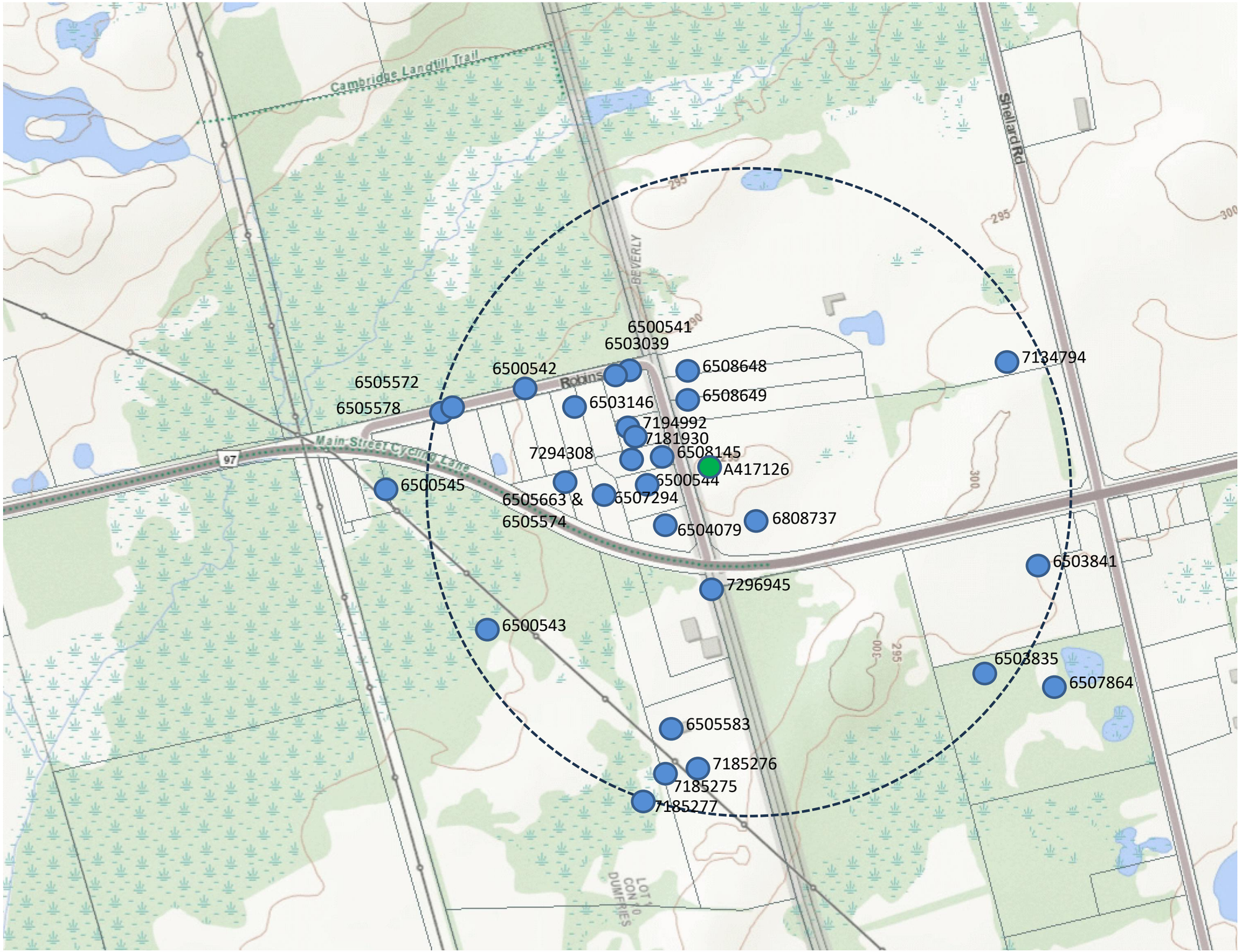
1) Base drawing reproduced from GSP Consent Sketch dated April, 2026

PROJECT 26-6001A:

HYDROGEOLOGY AND TERRAIN EVALUATION
PROPOSED RURAL RESIDENTIAL LOTS
3024 OLD BEVERLY ROAD

FIGURE1:

PROPOSED LOT CONFIRGURATION



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NOTES:

1) Base drawing and information: obtained from the Ontario Ministry of Natural Resources and Forestry (MNRF); "Make a Map" Natural Heritage Areas; https://www.gisapplication.lrc.gov.on.ca/, accessed June 2026

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

KEY PLAN:

7051341 MECP WATER WELL

PROJECT 26-6001A:

HYDROGEOLOGY AND TERRAIN EVALUATION
PROPOSED RURAL RESIDENTIAL LOTS
3024 OLD BEVERLY ROAD

FIGURE 2:

MECP WATER WELL RECORDS

Appendix A: Water Well Records

40P8C

376

56-1 fil

69

UTM 17 Z 559930 E
5 R 4801130 N

Elev. 4 R X 0955

Basin 23

ONTARIO

The Water-well Drillers Act, 1954
Department of Mines

[redacted]

RECEIVED
NOV 2 8 1956
GEOLOGICAL BRANCH
DEPARTMENT of MINES

65 No 541

Water-Well Record

County or Territorial District WATERLOO Township, Village, Town or City (North Dumphries) GALT

Con. X Lot 1 Street and Number (if in Village, Town or City) [redacted]

Owner [redacted] Address Toronto Ont.

Date completed 17 (day) July (month) 1956 (year)

New Owner Since Jan 1964

Pipe and Casing Record [redacted] **Pumping Test**

Casing diameter(s) 6½ inch
Length(s) 108 ft
Type of screen none
Length of screen none

Static level 15 ft
Pumping rate 18 G.P.M.
Pumping level 17 ft
Duration of test 4 hrs

Well Log

Overburden and Bedrock Record	From ft.	To ft.
clay & gravel	0	13
brown rock	13	75
sand & gravel	75	107
brown limestone	107	115
grey limestone	115	161

Water Record

Depth(s) at which water(s) found	No. of feet water rises	Kind of water (fresh, salty, or sulphur)
147 ft - 161'	146	fresh

For what purpose(s) is the water to be used?
Steel supply office

Is water clear or cloudy? clear

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

Drilling firm J. L. Graham
Address R R # 3 Guelph Ont.

Name of Driller Robert H Graham
Address R R # 3 Guelph Ont.

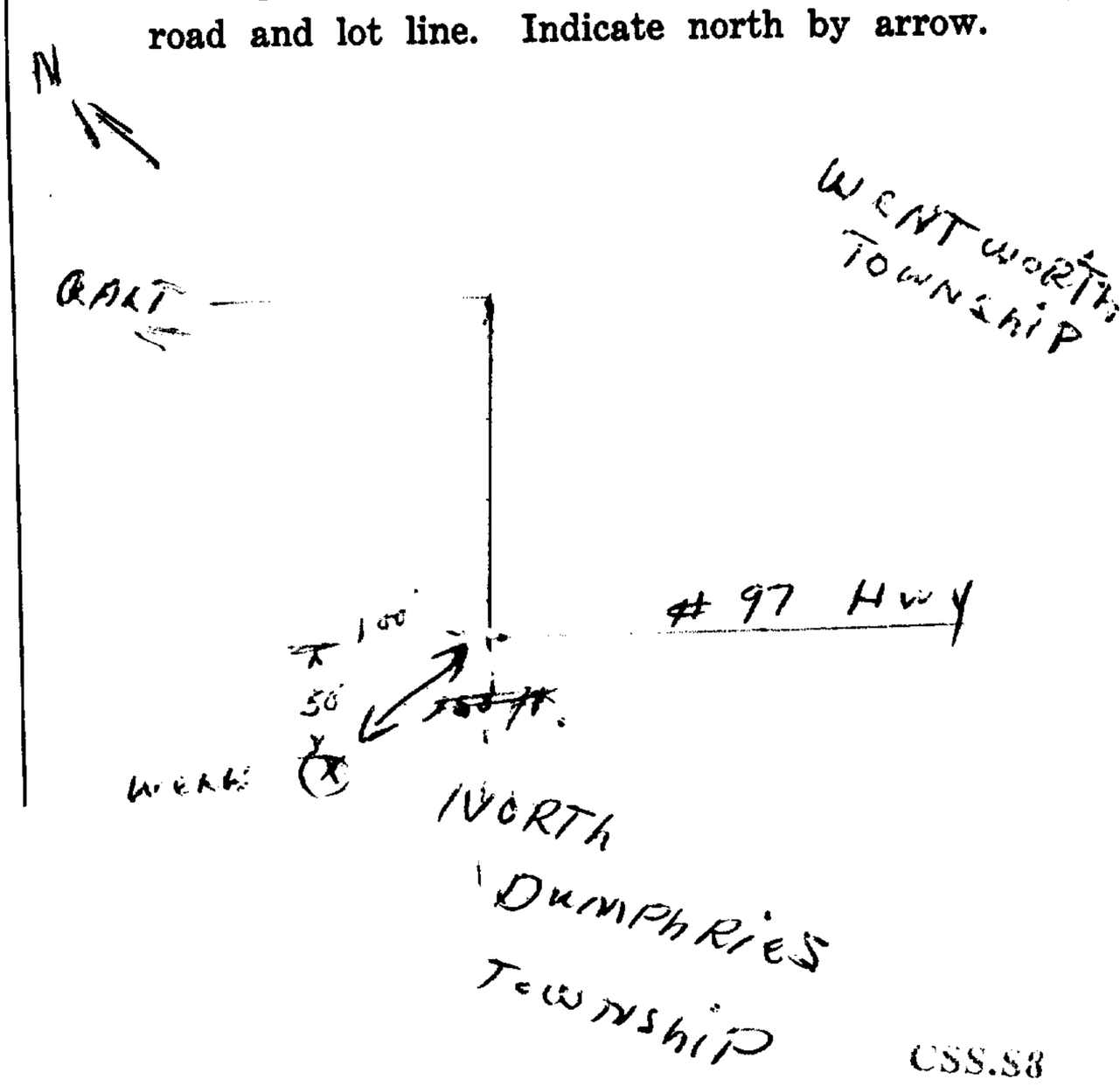
Licence Number 764

I certify that the foregoing statements of fact are true.

Date Nov 12/56 J L Graham
Signature of Licensee
R H Graham

Location of Well

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



Form 5

CSS.58

40P8c 37c 70

UTM 17 Z 559780 E
5 R 4801100 N
Elev. 4 R 0948
Basin 23

Co. X
lot 1

ONTARIO

[redacted]

65 № 542

The Water-well Drillers Act, 1954
Department of Mines

Water-Well Record

GALT

[redacted] p, Village, Town or City) (N. [illegible])
[redacted] Village, Town or City)
[redacted] ddress GALT ONT

Date completed 23 (day) AUGUST (month) 1957 (year)

Pipe and Casing Record

Casing diameter(s) 4 INCH
Length(s) 92½ FT
Type of screen NONE
Length of screen NONE

Pumping Test

Static level 10 FT
Pumping rate 8 GPM
Pumping level 10 FT
Duration of test 1 hR

Well Log / Water Record

Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	No. of feet water rises	Kind of water (fresh, salty, or sulphur)
TOP SOIL	0	2	100 – 110 FT	100 FT	FRESH
STONES CLAY	2	13			
COARSE SAND GRAVEL	13	50			
COARSE SAND	50	70			
FINE SAND BROWN CLAY	70	90			
ROCK BRUISH GREY	90	110			

For what purpose(s) is the water to be used? HOUSE
Is water clear or cloudy? CLEAR
Is well on upland, in valley, or on hillside? VALLEY

Drilling firm J. L. GRAHAM
Address RR3 GUELPH ONT

Name of Driller ROBERT GRAHAM
Address RR3 GUELPH ONT

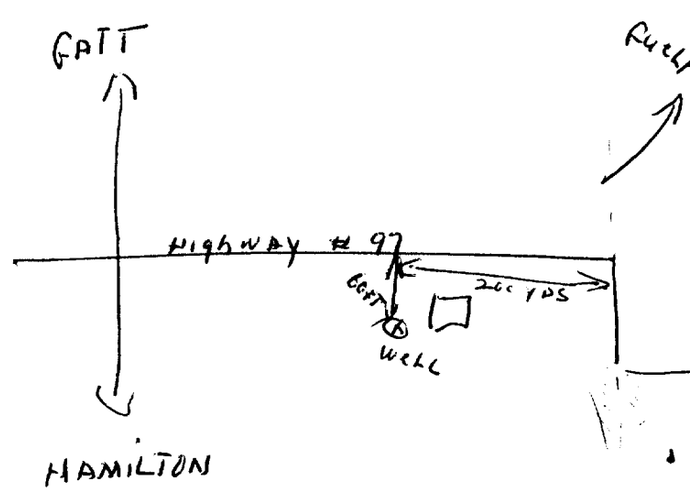
Licence Number 763

I certify that the foregoing statements of fact are true.

Date Aug 29 1957 J L Graham
Signature of Licensee NEB

Location of Well

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



Form 5

CSS.58

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SEP 7 1966

UTM. 5 R 4800750 N 559725 E

Elev. 4 R 0940

Basin 23

The Ontario Water Resources Commission Act

WATER WELL RECORD

65 No. 543

County or District Waterloo

Township, Village, Town or City Galt (North Dumfries)

Con. X Lot 1

Date completed 15 (day) 8 (month) 1966 (year)

Owner P.U.C. (print in block letters)

Address Galt

Casing and Screen Record

Inside diameter of casing

Total length of casing

Type of screen

Length of screen

Depth to top of screen

Diameter of finished hole

Pulled out casing

Pumping Test

Static level 0

Test-pumping rate 45 G.P.M.

Pumping level 12'

Duration of test pumping 4 HRS

Water clear or cloudy at end of test CLEAR

Recommended pumping rate NA G.P.M.

with pump setting of feet below ground surface

Well Log

Overburden and Bedrock Record

	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
top soil + boulders	0'	1'		
Hard clay + gravel	1'	2'		
Soft clay + gravel	2'	8'		
Sandy clay + gravel Hard streaks	8'	18'		
Silty sand	18'	21'		
dirty gravel	21'	22'		
sandy clay	22'	30'		
Brown clay	30'	44'		
Cemented gravel + boulders	44'	86'	44	F 400ppm
Cemented sand + gravel	86'	99'		
grey limestone	99'	106	105	F
grey + brown limestone	106'	140'		1600ppm
brown + grey limestone	140'	148'		[redacted]
Brown limestone	148'	165'		

Water Record

For what purpose(s) is the water used? NA

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

Drilling or Boring Firm International Water Supply

Address 12 Maitland St. London Ont.

Licence Number

Name of Driller or Borer Don W Bauerlein

Address 3001 Dundas St. London Ont.

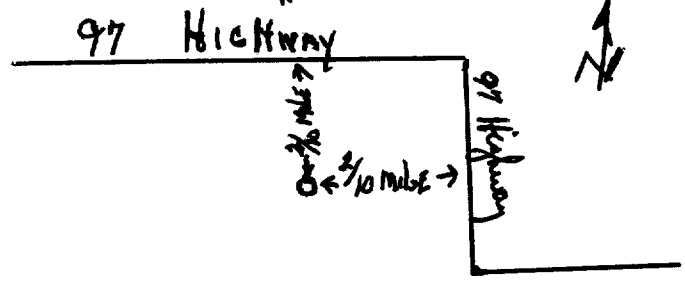
Date Sept 2/66

D W Haney

(Signature of Licensed Drilling or Boring Contractor)

Location of Well

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



Form 7 10M-62-1152

OWRC COPY

CSS.S8

40P8C

B

UTM 17 Z 559960 E

15 R 4800970 N

Elev. 4 R 0950

The Ontario Water Resources Commission Act

WATER WELL RECORD

65 № 544

Basin 23 County or District WATERLOO Township, Village, Town or City GALT (N. DUMFRIES)

Con. X Lot 1 Date completed 28 (day) July (month) 66 (year)

[redacted] ress Clyde Rd, RR#6 Galt.

Casing and Screen Record

Inside diameter of casing 6¼"

Total length of casing 93'

Type of screen —

Length of screen —

Depth to top of screen

Diameter of finished hole 6¼"

Pumping Test

Static level 18

Test-pumping rate 20 G.P.M.

Pumping level 50

Duration of test pumping 2 hours

Water clear or cloudy at end of test Clear

Recommended pumping rate 10 G.P.M.

with pump setting of 70 feet below ground surface

Well Log

Overburden and Bedrock Record	From ft.	To ft.	Water Record: Depth(s) at which water(s) found	Water Record: Kind of water (fresh, salty, sulphur)
Br. Sand Gravel & stones	0	30		
Gravelly Grey Clay	30	70		
Cemented Sand & Gravel	70	91½		
Fine Gravel	91½	92	91½	Fresh

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

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

Drilling or Boring Firm G. J. Wallis

Address RR# 2 Stoney Creek

Licence Number 2113

Name of Driller or Borer Same

Address

Date July 29/66

George J. Wallis

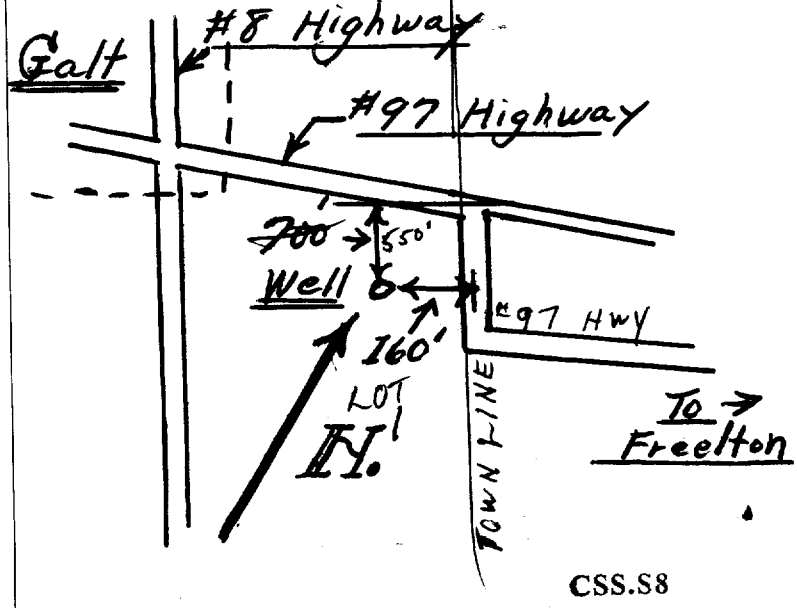
(Signature of Licensed Drilling or Boring Contractor)

Form 7 15M-60-4138

OWRC COPY

Location of Well

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



CSS.S8

40P8c

Test 1/67 B

UTM 17 Z 559570 E
5 R 4800925 N

Elev. 4 R 0940

The Ontario Water Resources Commission Act

WATER WELL RECORD

65 A № 545

GALT

Basin 23

County ~~or District~~ WATERLOO

~~Township~~, ~~Village~~, ~~Town or City~~ (N. DUMFRIES)

Con. 10 Lot 1

Date completed 20 (day) 3 (month) 67 (year)

Owner Galt PUC (print in block letters)

Address Galt Ont.

Casing and Screen Record

OBSERVATION WELL.

Inside diameter of casing	3/4" DIAM.	8" DIAM.
Total length of casing	64	37'
Type of screen	SLOTTED	NA
Length of screen	5	NA
Depth to top of screen	59.	NA.
Diameter of finished hole	8" DIAM.	

Pumping Test

Static level FLOW

Test-pumping rate 45 G.P.M.

Pumping level 15.5'

Duration of test pumping 2 HRS.

Water clear or cloudy at end of test CLEAR

Recommended pumping rate NA. G.P.M.

with pump setting of ..... feet below ground surface

Well Log

Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
Black muck	0	1		
Silty clay, sand and gravel	1	18		
Fine & coarse sand & gravel	18	29	18'	FRESH.
" " gravel & boulders	29	39		
Cemented gravel	39	42		
Fine & coarse gravel & sand (cemented streaks)	42	64		
Clay (some gravel)	64	73		
Cemented coarse gravel (fine sand)	73	80		
Rock	80	82		

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

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

Drilling or Boring Firm Int water Sopply Ltd.

Address 12 Maitland Street London Ont.

Licence Number

Name of Driller or Borer H. Duncan

Address 377 Davis ST, Sarnia Ont.

Date Mar 21, 1967

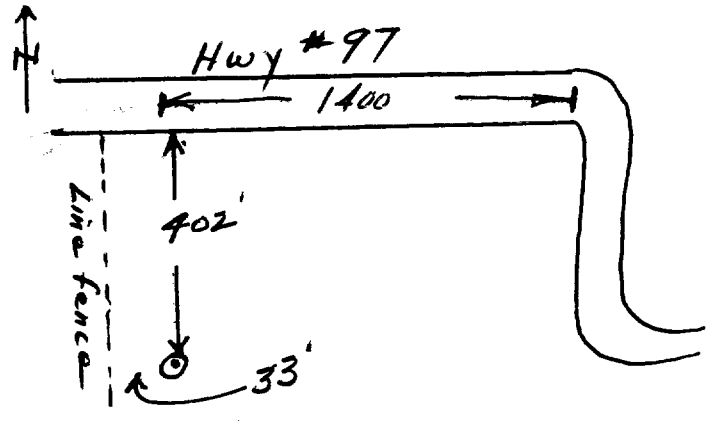
(Signature of Licensed Drilling or Boring Contractor)

Form 7 15M-60-4138

OWRC COPY

Location of Well

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



GALT PUC TW. 1/67

CSS.S8

UTM 17 559910 Con X Lot 1
17 481011210
Elev. 17 019510
23

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Water management in Ontario

6503033

The Ontario Water Resources Commission Act

WATER WELL RECORD

GALT

County or District: Waterloo
Township, Village, Town or City: (North Dumfries)
Con: 10 Lot: I
Date completed: 29 (day) April (month) 69 (year)
[redacted] dress: 37 Elgin St. S., Galt. RR#6 Galt

Casing and Screen Record

Inside diameter of casing: 6¼"
Total length of casing: 83
Type of screen: —
Length of screen: —
Depth to top of screen: —
Diameter of finished hole: 6¼"

DIVISION OF WATER RESOURCES
JUL 9 1969
ONTARIO WATER RESOURCES COMMISSION

Pumping Test

Static level: 7
Test-pumping rate: 5 G.P.M.
Pumping level: 75
Duration of test pumping: 1 hour.
Water clear or cloudy at end of test: Clear
Recommended pumping rate: 3½ G.P.M.
with pump setting of: 74 feet below ground surface

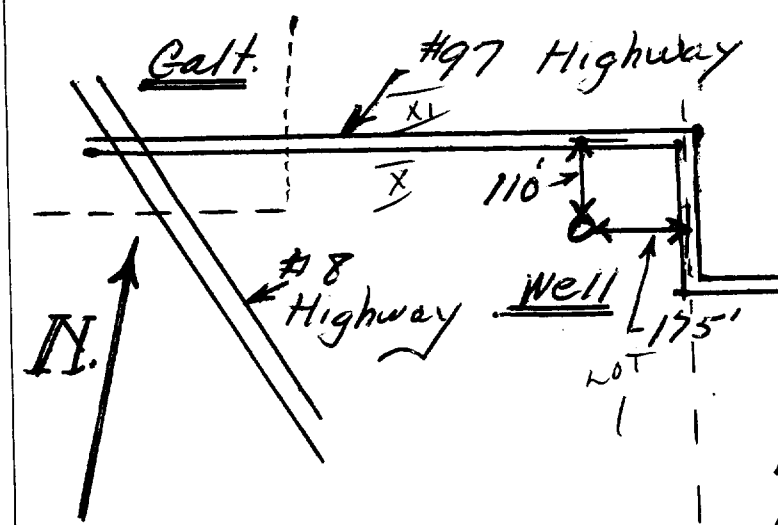
Well Log

Overburden and Bedrock Record	From ft.	To ft.	Water Record: Depth(s) at which water(s) found	Water Record: Kind of water (fresh, salty, sulphur)
Br Soil, Stones	0	12		
Sand & Gravel	12	44		
Grey Silt Sand	44	70		
Silt sand & Gravel	70	80		
Fine Gravel	80	82	80	Fresh

For what purpose(s) is the water to be used? Home
Is well on upland, in valley, or on hillside? Upland
Drilling or Boring Firm: C. J. Wallis
Address: R.R. #2 Stoney Creek
Licence Number: 3383
Name of Driller or Borer: Same
Address:
Date: April 29/69
George J. Wallis
(Signature of Licensed Drilling or Boring Contractor)

Location of Well

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



Form 7
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7

CODED

Water management in Ontario

The Ontario Water Resources Commission Act

WATER WELL RECORD

GALT

County or District: Wat.

Township, ~~Village, Town or City~~ (North Dumfries)

Date completed: 26 (day) 7 (month) 69 (year)

Con. 10 Lot 1

Address: R R #6 Galt.

Owner: [redacted]

Casing and Screen Record

Inside diameter of casing: 5"

Total length of casing: 58

Type of screen: —

Length of screen: —

Depth to top of screen: —

Diameter of finished hole: 5"

Pumping Test

Static level: 10 feet

Test-pumping rate: 6 G.P.M.

Pumping level: 50

Duration of test pumping: 8

Water clear or cloudy at end of test: Clear

Recommended pumping rate: 4 G.P.M.

with pump setting of: 50 feet below ground surface

Well Log

Overburden and Bedrock Record	From ft.	To ft.	Water Record: Depth(s) at which water(s) found	Water Record: Kind of water (fresh, salty, sulphur)
Dug well	0	14		
Gravel, sand & clay	14	55		
Sand & Gravel	55	58	57-58	fresh

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

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

Drilling ~~or Boring Firm~~ Hagedyn

123 Southwest St

Address: Preston

Licence Number: 3376

Name of Driller or Borer: Same

Address:

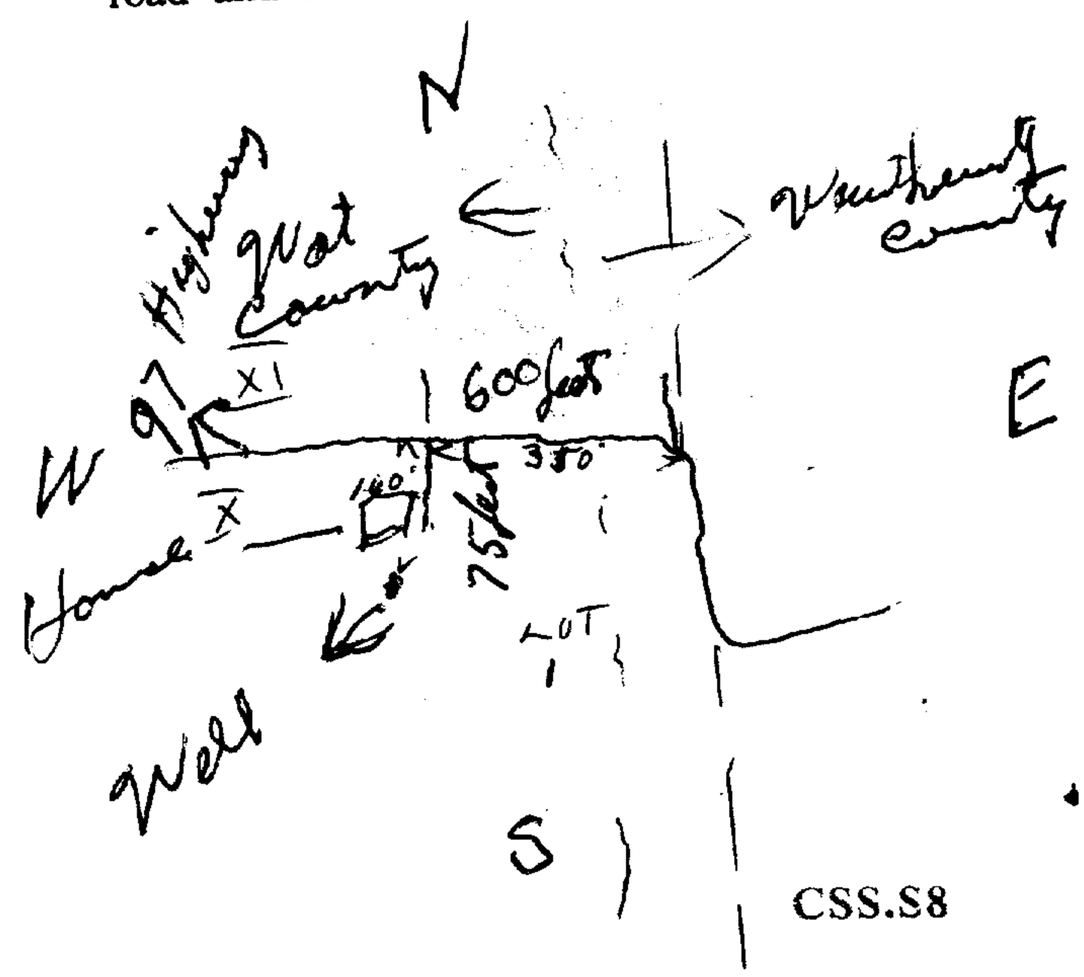
Date: Nov 26/69

Hagedyn

(Signature of Licensed Drilling or Boring Contractor)

Location of Well

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



Form 7

OWRC COPY

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UTM 17 Z 560466 E
5 R 4800687 N

Elev. 4 R 0962

Basin 24

6503835
3 9

~~68~~ No. ~~955~~ B

The Ontario Water Resources Commission Act

WATER WELL RECORD

N. DUMFRIES

County or District 23 (WENTWORTH) WATERLOO Township, Village, Town or City (Beverley)

Con. VIII Lot H Date completed 24 (day) Oct. (month) 66 (year)

[redacted] ess 18 Dundonald Rd, Galt.

Casing and Screen Record

Inside diameter of casing	6 1/4"
Total length of casing	97'-4"
Type of screen	—
Length of screen	—
Depth to top of screen	—
Diameter of finished hole	6 1/4"

Pumping Test

Static level	35'
Test-pumping rate	20 G.P.M.
Pumping level	65
Duration of test pumping	45 min.
Water clear or cloudy at end of test	Clear
Recommended pumping rate	10 G.P.M.
with pump setting of	90 feet below ground surface

Well Log

Overburden and Bedrock Record	From ft.	To ft.	Water Record: Depth(s) at which water(s) found	Water Record: Kind of water (fresh, salty, sulphur)
Br. Sand & Gravel	0	45		
Blue Clay	45	80		
Silt Sand & Clay	80	96		
Br. Limestone	96	108	106	Fresh

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

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

Drilling or Boring Firm G. J. Wallis

Address RR#2 Stney Creek

Licence Number 2113

Name of Driller or Borer Same

Address

Date Oct 25/66

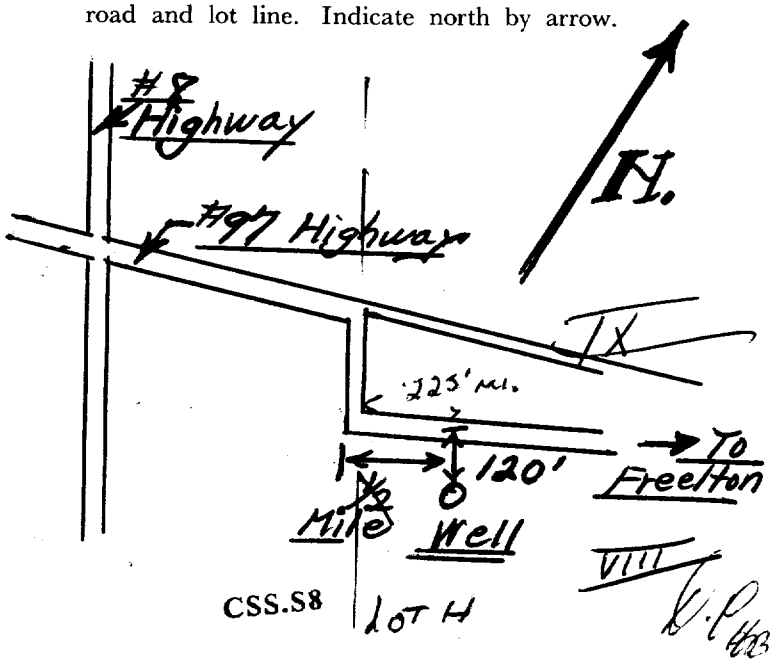
George J. Wallis
(Signature of Licensed Drilling or Boring Contractor)

Form 7 15M-60-4138

OWRC COPY

Location of Well

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



CSS.S8

The Ontario Water Resources Commission Act

WATER WELL RECORD

65038 41

Water management in Ontario

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

11 | 6807912 | MUNICIP. 68003 | CON. CON 9 LA 08

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON., BLOCK, TRACT, SURVEY, ETC.	LOT
Wentworth	Beverly N. Dumfries	8	4 Gore

[redacted] RR4 Borden St Galt — DATE COMPLETED: DAY 11 MO. June YR. 71

HING 00850 | RC. 4 | ELEVATION 0960 | RC. 5 | BASIN CODE 23

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		Sandy	0	15
Grey	Clay			15	36
Grey	Gravel		Sand with Water	36	41

31: 0015 6050 9 | 0030 2 05 | 0041 2 1 1 9 9

32:

41 WATER RECORD

WATER FOUND FT – FEET	KIND OF WATER
0041	☒ 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
06	☒ 1 STEEL ☐ 2 GALVANIZED ☐ 3 CONCRETE ☐ 4 OPEN HOLE	188	0	41 0041
	☐ 1 STEEL ☐ 2 GALVANIZED ☐ 3 CONCRETE ☐ 4 OPEN HOLE			
	☐ 1 STEEL ☐ 2 GALVANIZED ☐ 3 CONCRETE ☐ 4 OPEN HOLE			

SCREEN

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

61 PLUGGING & SEALING RECORD

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

71 PUMPING TEST

PUMPING TEST METHOD: 1 ☐ PUMP 2 ☒ BAILER — PUMPING RATE: 0015 GPM. — DURATION OF PUMPING: 01 HOURS 00 MINS.

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING (1 ☐ PUMPING 2 ☒ RECOVERY) 15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
016 FEET	026 FEET	016 FEET	016 FEET	016 FEET	016 FEET

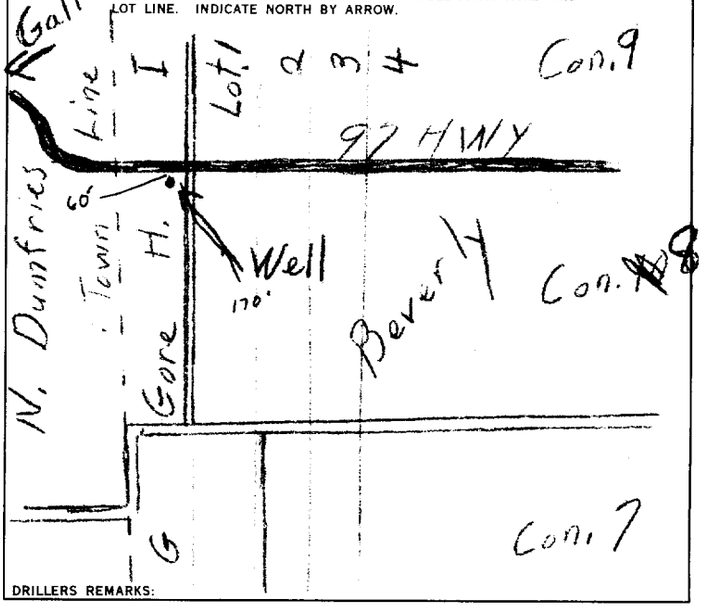
IF FLOWING, GIVE RATE: GPM. — PUMP INTAKE SET AT: 035 FEET — WATER AT END OF TEST: 1 ☒ CLEAR 2 ☐ CLOUDY

RECOMMENDED PUMP TYPE: ☐ SHALLOW ☒ DEEP — RECOMMENDED PUMP SETTING: 35 FEET — RECOMMENDED PUMPING RATE: 0010 GPM.

001.5 GPM./FT. SPECIFIC CAPACITY

LOCATION OF WELL

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



DRILLERS REMARKS:

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

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

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

CONTRACTOR

NAME OF WELL CONTRACTOR: Wesley Packham — LICENCE NUMBER: 4208

ADDRESS: RR2 Ancaster

NAME OF DRILLER OR BORER: Wesley Packham — LICENCE NUMBER: 4208

SIGNATURE OF CONTRACTOR: Wesley Packham — SUBMISSION DATE: DAY 11 MO. June YR. 71

OFFICE USE ONLY

DATA SOURCE (58): 1 — CONTRACTOR (59-62): 4208 — DATE RECEIVED (63-68): 141071

DATE OF INSPECTION: 21.12.71 — INSPECTOR: 7

REMARKS: CDS.38 — P 7 — WI

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MINISTRY OF THE ENVIRONMENT
The Ontario Water Resources Act

WATER WELL RECORD

ONTARIO

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

11 | 6504079 | MUNICIP. 65001 | CON. GPN | 10

COUNTY OR DISTRICT: Waterloo | TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: N Dumfries | CON., BLOCK, TRACT, SURVEY, ETC.: 10 | LOT: ~~001~~ 001

[redacted] R#6 Galt

DATE COMPLETED: DAY 01 MO. ~~Aug~~ 08 YR. 73

8 0 0 9 0 5 | BC 6 | ELEVATION 0 9 5 5 | RC 4 | BASIN CODE 2 3

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			0	25
Grey	clay			25	60
Grey	Sand and Gravel			60	63

31: D0256D05 | D0602D05 | D0631228

32:

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0063	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
06	1 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	188	0	~~63~~ 0063
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			

SCREEN

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

MATERIAL AND TYPE	DEPTH TO TOP OF SCREEN (FEET)

61 PLUGGING & SEALING RECORD

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

71 PUMPING TEST

PUMPING TEST METHOD: 1 ☐ PUMP 2 ☒ BAILER

PUMPING RATE: 0008 GPM | DURATION OF PUMPING: 02 HOURS 00 MINS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING (1 ☐ PUMPING 2 ☒ RECOVERY) 15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
017 FEET	040 FEET	018 FEET	018 FEET	018 FEET	017 FEET

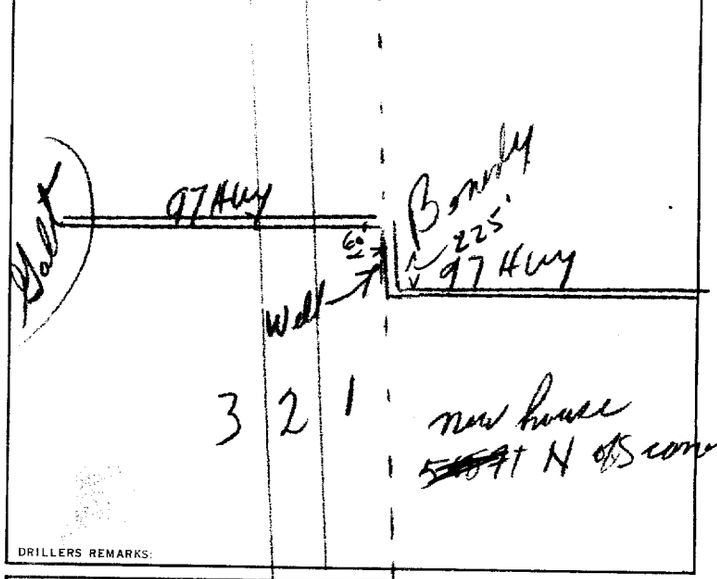
IF FLOWING, GIVE RATE: GPM | PUMP INTAKE SET AT: FEET | WATER AT END OF TEST: 1 ☒ CLEAR 2 ☐ CLOUDY

RECOMMENDED PUMP TYPE: ☐ SHALLOW ☒ DEEP | RECOMMENDED PUMP SETTING: 055 FEET | RECOMMENDED PUMPING RATE: 0005 GPM

RECOMMENDED PUMPING RATE: 0.4 GPM./FT. SPECIFIC CAPACITY

LOCATION OF WELL

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



DRILLERS REMARKS:

FINAL STATUS OF WELL: 1 ☒ 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: 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: Wesley Packham | LICENCE NUMBER: 4208

ADDRESS: RR2 Ancaster

NAME OF DRILLER OR BORER: Wesley Packham | LICENCE NUMBER: 4208

SIGNATURE OF CONTRACTOR: Wesley Packham | SUBMISSION DATE: DAY 1 MO. Aug YR. 73

OFFICE USE ONLY

DATA SOURCE: 1 | CONTRACTOR: 4208 | DATE RECEIVED: 29 01 74

DATE OF INSPECTION | INSPECTOR

REMARKS: CSS.S8 P WI

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FORM 7 07-091

Ministry of the Environment
Ontario

The Ontario Water Resources Act

WATER WELL RECORD

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

11 — 6505572 — MUNICIP. — CON.

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON., BLOCK, TRACT, SURVEY, ETC.	LOT
Waterloo	N Dumfries	X	1.

[redacted] ADDRESS 34 Major drive Cambridge — DATE COMPLETED DAY 13 MO. Oct YR. 84

21 — UTM ZONE — EASTING — 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
Grey	clay	Stones		0	25
Grey	Sand and Gravel			25	50

31

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
41-44	1 ☒ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
15-18	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
20-23	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
25-28	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
30-33	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	TO
6 1/4	1 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	188	0	39
5	1 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	188	34	47
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			

SCREEN

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET
10	6	3

MATERIAL AND TYPE: Stainless Steel — DEPTH TO TOP OF SCREEN: 41 FEET

61 PLUGGING & SEALING RECORD

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

71 PUMPING TEST

PUMPING TEST METHOD: 1 ☐ PUMP 2 ☐ BAILER — PUMPING RATE: 25 GPM — DURATION OF PUMPING: 1 HOURS ___ MINS

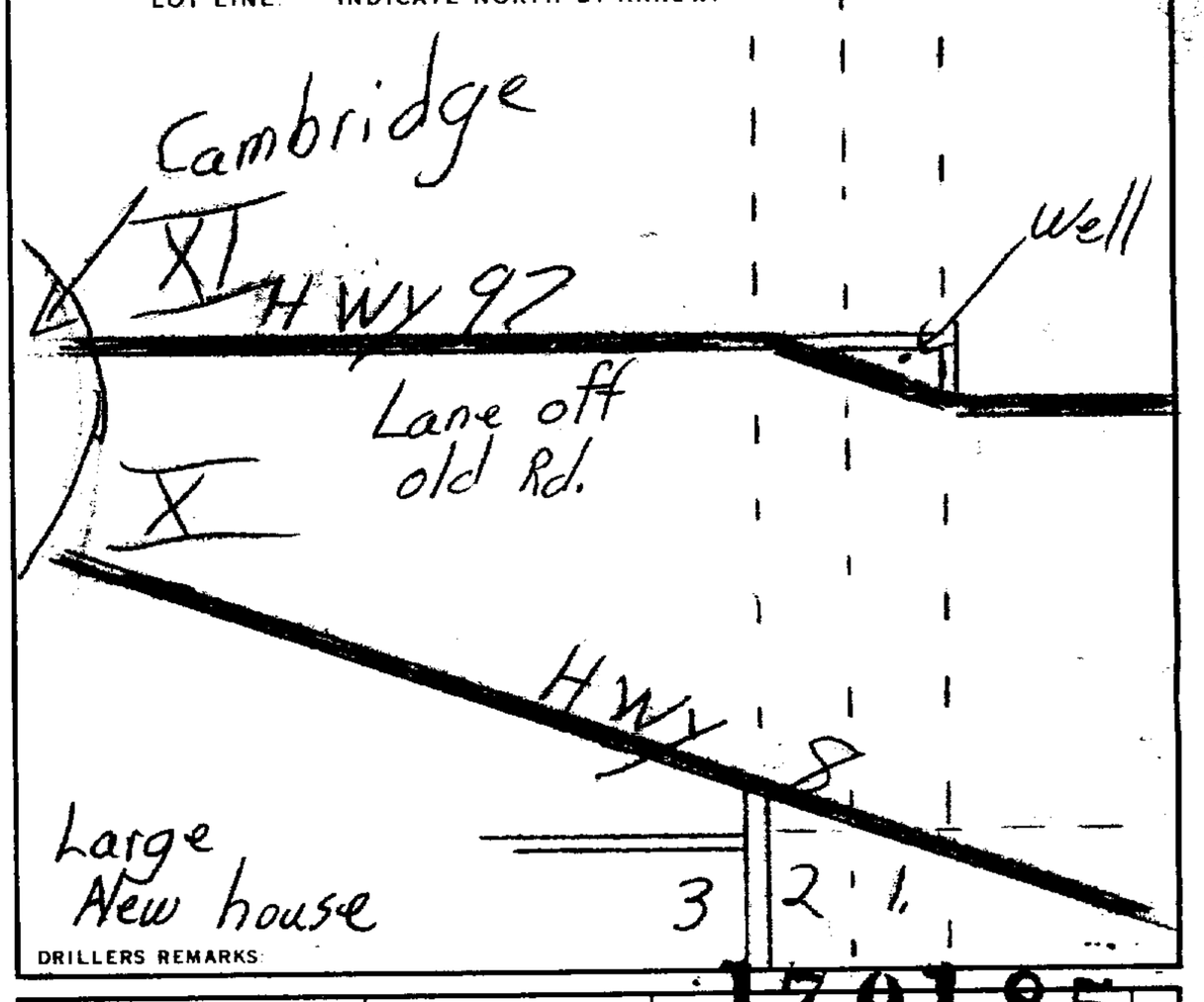
STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING (1 ☐ PUMPING 2 ☒ RECOVERY)	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
3 FEET	40 FEET		3 FEET	3 FEET	3 FEET	3 FEET

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

RECOMMENDED PUMP TYPE: either ☐ SHALLOW ☐ DEEP — RECOMMENDED PUMP SETTING: min 30 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:

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: Wesley Packham — LICENCE NUMBER: 4208

ADDRESS: RR 2 Ancaster

NAME OF DRILLER OR BORER: Murray Packham — LICENCE NUMBER: 4207

SIGNATURE OF CONTRACTOR: Wesley Packham — SUBMISSION DATE: DAY 13 MO. Oct YR. 84

OFFICE USE ONLY

DATA SOURCE — CONTRACTOR — DATE RECEIVED: 170185

DATE OF INSPECTION — INSPECTOR

REMARKS

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FORM NO. 0506—4—77 FORM 7

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Ontario

The Ontario Water Resources Act

WATER WELL RECORD

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11 6505574

MUNICIP. CON.

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON., BLOCK, TRACT, SURVEY, ETC.	LOT
[redacted]	[redacted] Duemfries	10	1

DATE COMPLETED: DAY Aug MO 24 YR. 84

[redacted] S Cholmons St C. R7 pt

21

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	DEPTH - FEET TO
Grey	clay	stony		0	50
Grey	muddy	sand		50	70
Grey	clay		sandy	70	100
Grey	Gravel			100	102
Grey	Limestone			102	106

31

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
105	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
6 1/4	1 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	.188	0	102
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			
	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 2 ☐ BAILER	100 GPM	1 HOURS ___ MINS

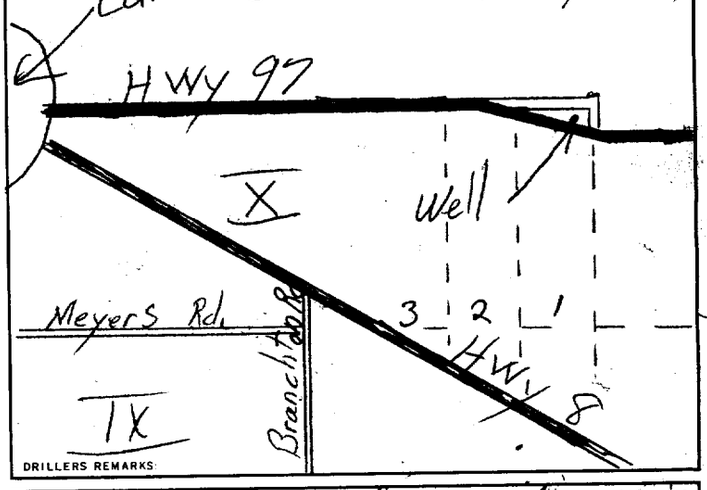
STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING (1 ☐ PUMPING 2 ☒ RECOVERY) 15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
14 FEET	100 FEET	14 FEET	14 FEET	14 FEET	14 FEET

IF FLOWING, GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST
GPM	FEET	1 ☒ CLEAR 2 ☐ CLOUDY
RECOMMENDED PUMP TYPE: either ☐ SHALLOW ☐ DEEP	RECOMMENDED PUMP SETTING: 35-50 FEET	RECOMMENDED PUMPING RATE: 10 GPM

LOCATION OF WELL

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

New house on high ground lane off new part of Hwy



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: Wesley Packham — LICENCE NUMBER: 4208

ADDRESS: RR2 Oneaday

NAME OF DRILLER OR BORER: Marvin D[illegible] — LICENCE NUMBER:

SIGNATURE OF CONTRACTOR — SUBMISSION DATE: DAY 24 MO Aug YR. 84

OFFICE USE ONLY

DATA SOURCE — CONTRACTOR — DATE RECEIVED 170185

DATE OF INSPECTION — INSPECTOR

REMARKS

CSS.ES

FORM NO. 0506—4—77 FORM 7

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Ontario

The Ontario Water Resources Act

WATER WELL RECORD

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11 | 6505578 | MUNICIP | CON.

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON., BLOCK, TRACT, SURVEY, ETC.	LOT 25-27
Waterloo	M Dumfries	10	1

[redacted] | ADDRESS 1230 Balmoral Line Cambridge (H) | DATE COMPLETED DAY 30 MO Oct YR. 84

21 | UTM ZONE | EASTING | NORTHING | RC. | ELEVATION | RC. | BASIN CODE I II III IV

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	TO
Grey	clay	stones		0	25
Grey	Sand and	Gravel		25	49

31

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
43-47	1 ☒ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	TO
6 1/4	1 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	188	0	40
5	1 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	188	34	49
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			

SCREEN

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER	LENGTH
12	6 INCHES	4 FEET

MATERIAL AND TYPE: Stainless Steel
DEPTH TO TOP OF SCREEN: 43 FEET

61 PLUGGING & SEALING RECORD

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

71 PUMPING TEST

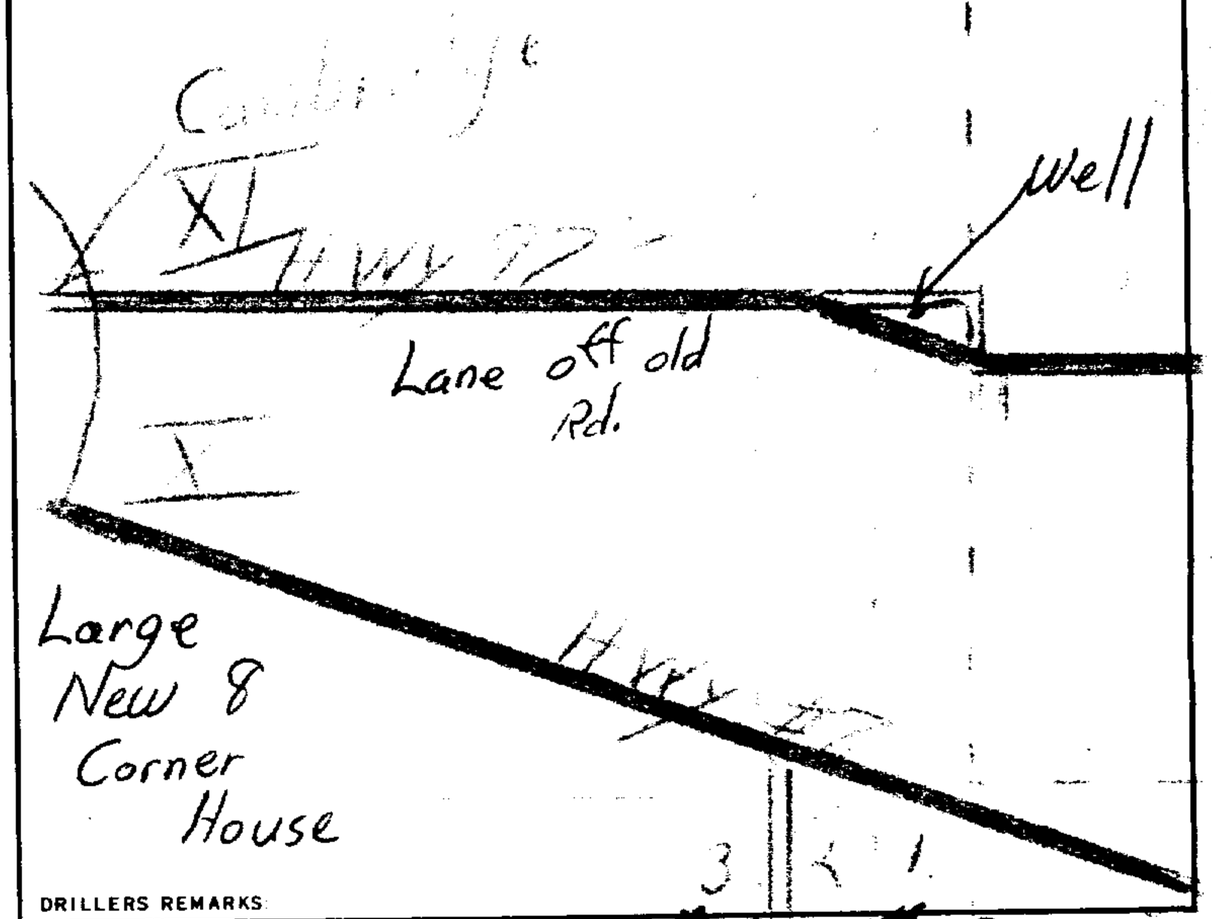
PUMPING TEST METHOD: 1 ☒ PUMP 2 ☐ BAILER
PUMPING RATE: 35 GPM
DURATION OF PUMPING: 1 HOURS ___ MINS

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

IF FLOWING, GIVE RATE: GPM
PUMP INTAKE SET AT: FEET
WATER AT END OF TEST: 1 ☒ CLEAR 2 ☐ CLOUDY
RECOMMENDED PUMP TYPE: either ☒ SHALLOW ☒ DEEP
RECOMMENDED PUMP SETTING: 25-40 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:

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: Wesley Peckham | LICENCE NUMBER: 4208
ADDRESS: RR2 Ennistar
NAME OF DRILLER OR BORER: Wesley Peckham | LICENCE NUMBER: 4207
SIGNATURE OF CONTRACTOR: Wesley Peckham | SUBMISSION DATE DAY 30 MO. Oct YR. 84

OFFICE USE ONLY

DATA SOURCE | CONTRACTOR | DATE RECEIVED 17 01 85
DATE OF INSPECTION | INSPECTOR
REMARKS

CSS.ES

FORM NO. 0506—4—77 FORM 7

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Ministry of the Environment
Ontario

The Ontario Water Resources Act

WATER WELL RECORD

6505583

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11

MUNICIP. 10–14 | CON. 15–22 23 24

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON. BLOCK, TRACT, SURVEY, ETC	LOT 25-27
Waterloo	N Dumfries	X	1

OWNER (SURNAME FIRST) 28-47	ADDRESS	DATE COMPLETED 48-53
CAMBRIDGE AUTO WRECKERS	[redacted] Hwy 97 EAST Cambridge (2 miles E of No 8 Hwy)	DAY 12 MO June YR 84

21

UTM ZONE 10–12 | EASTING 12–17 | NORTHING 18–24 | 25 | ELEVATION 26–30 | 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	TO
Grey	clay			0	88
Grey	Limestone		shale	88	90

31

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

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
89 (10-13)	1 ☒ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL (14)
(15-18)	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL (19)
(20-23)	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL (24)
(25-28)	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL (29)
(30-33)	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL (34) 60

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	TO
6 1/4 (10-11)	1 ☒ STEEL (12) 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	188	0	88 (13-16)
(17-18)	1 ☐ STEEL (19) 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			(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	DURATION OF PUMPING
air 1 ☐ PUMP 2 ☐ BAILER	100 GPM	1 HOURS 15-16 ___ MINS 17-18

STATIC LEVEL	WATER LEVEL END OF PUMPING	25 WATER LEVELS DURING 1 ☐ PUMPING 2 ☒ RECOVERY			
		15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
6 (19-21) FEET	85 (22-24) FEET	6 (26-28) FEET	6 (29-31) FEET	6 (32-34) FEET	6 (35-37) FEET

IF FLOWING GIVE RATE 38-41	PUMP INTAKE SET AT	WATER AT END OF TEST 42
GPM	FEET	1 ☒ CLEAR 2 ☐ CLOUDY
RECOMMENDED PUMP TYPE	**RECOMMENDED PUMP SETTING 43-45**	**RECOMMENDED PUMPING RATE 46-49**
☒ SHALLOW ☐ DEEP	25 FEET	10 GPM

50-53

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)

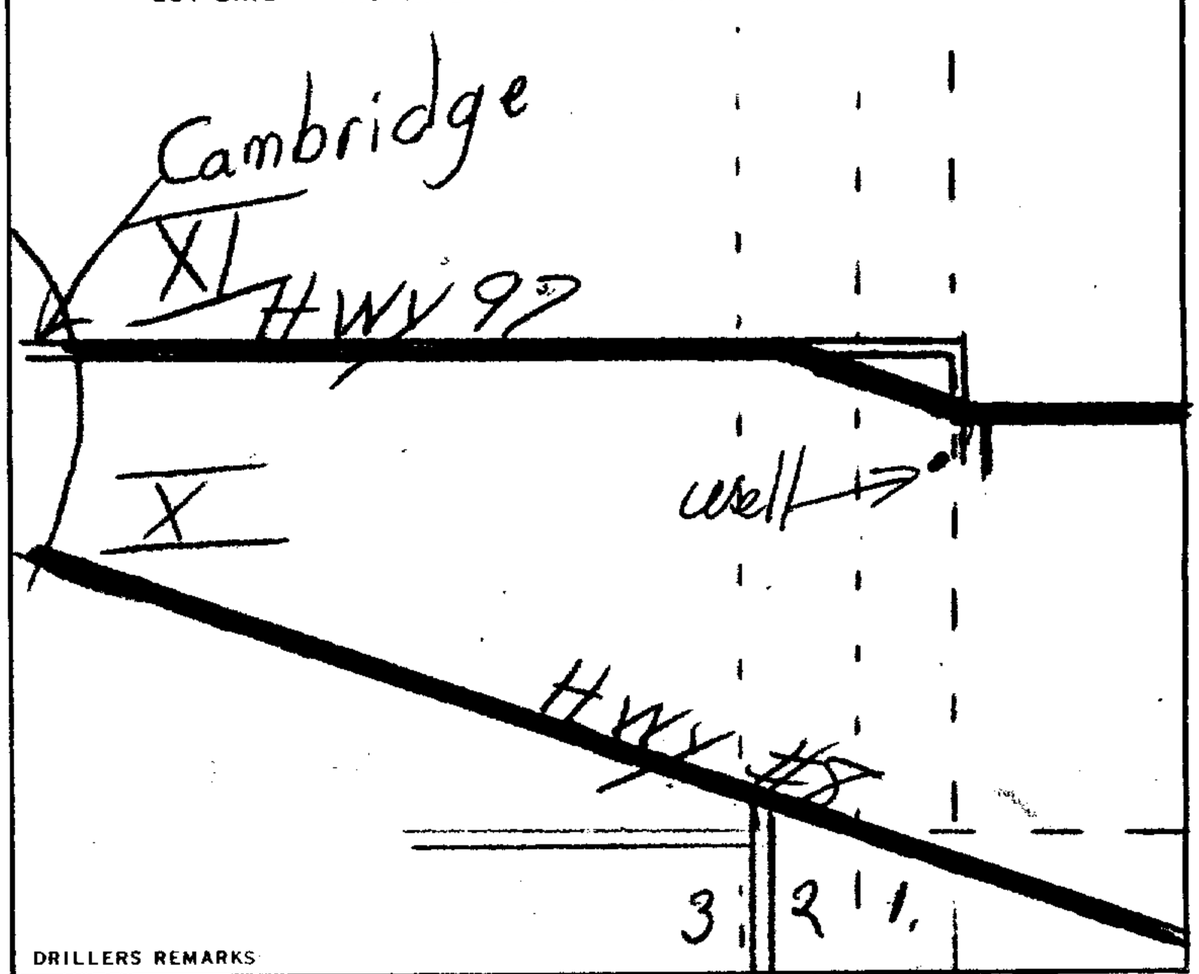
1 ☐ DOMESTIC
2 ☐ STOCK
3 ☐ IRRIGATION
4 ☐ INDUSTRIAL
☐ OTHER
5 ☒ COMMERCIAL
6 ☐ MUNICIPAL
7 ☐ PUBLIC SUPPLY
8 ☐ COOLING OR AIR CONDITIONING
9 ☐ NOT USED

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

LOCATION OF WELL

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



DRILLERS REMARKS

CONTRACTOR

NAME OF WELL CONTRACTOR	LICENCE NUMBER
Wesley Packham	4208
ADDRESS: RR2 Ancaster	
NAME OF DRILLER OR BORER	LICENCE NUMBER
Mervyn Packham	4207
SIGNATURE OF CONTRACTOR: Wesley Packham	SUBMISSION DATE: DAY 12 MO. Jun YR. 84

OFFICE USE ONLY

DATA SOURCE 58	CONTRACTOR 59-62	RECEIVED 250185 63-68	80
DATE OF INSPECTION	INSPECTOR		
REMARKS: APL May/85			

CSS.ES

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Ontario

The Ontario Water Resources Act

WATER WELL RECORD

1. PRINT ONLY IN SPACES PROVIDED
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11 — 6505663

MUNICIP: | CON.:

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON. BLOCK, TRACT, SURVEY, ETC.	LOT
[redacted]	NORTH DUMFRIES	X	PART OF ONE

DATE COMPLETED: DAY 25 MO 06 YR 85

[redacted] KING ST. S. WATERLOO ONT N2J 1N

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
GRAY	SAND	STONES	LOOSE	0	15
TAN	HARDPAN			15	45
GRAY	SAND	GRAVEL	LAYERED	45	80
GRAY	SAND	SILT		80	100
GRAY	GRAVEL			100	105

31

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
100	1 ☒ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
TO- 105	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	DEPTH - FEET TO
6½	1 ☒ STEEL 2 ☐ GALVANIZED 1 ☐ CONCRETE 4 ☐ OPEN HOLE	.280	0	104
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			
	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.)

PUMPING TEST

71

PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
1 ☐ PUMP 2 ☒ BAILER	15 GPM	4 HOURS 30 MINS

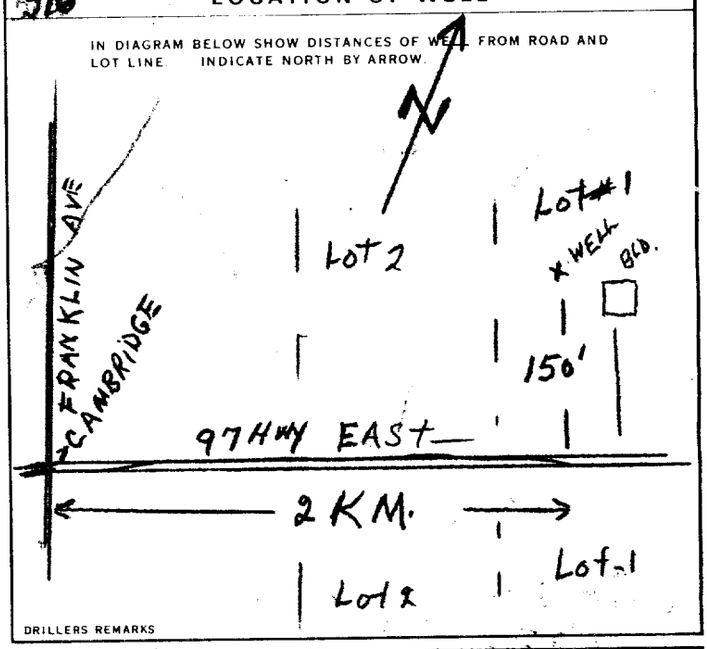
STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING (1 ☐ PUMPING 2 ☒ RECOVERY) 15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
25 FEET	35 FEET	26 FEET	25 FEET	— FEET	— FEET

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	40 FEET	15 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: McLAUGHLIN WATER WELLS — LICENCE NUMBER: 3518

ADDRESS: 38 DOLMAN ST BRESLAU. ONT.

NAME OF DRILLER OR BORER: ROB. McLAUGHLIN — LICENCE NUMBER:

SIGNATURE OF CONTRACTOR: R. McLaughlin — SUBMISSION DATE: DAY 27 MO 07 YR 85

OFFICE USE ONLY

DATA SOURCE | CONTRACTOR | DATE RECEIVED: 230485

DATE OF INSPECTION | INSPECTOR

REMARKS

CSS.ES

MINISTRY OF THE ENVIRONMENT COPY

FORM NO. 0506—4—77 FORM 7

Ministry of the Environment
Ontario

The Ontario Water Resources Act

WATER WELL RECORD

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

11 — 6507294 — MUNICIP 65506 — CON. CON. 10

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON BLOCK, TRACT, SURVEY, ETC	LOT
[redacted]	CAMBRIDGE	10	PT 1

[redacted] 2000 MAIN ST EAST — DATE COMPLETED: DAY 15 MO 06 YR 92

BUILDING — 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	FILL		LOOSE	0	4
GRAY	CLAY	SAND, BOULDERS	LOOSE	4	30
BROWN	CLAY	SAND GRAVEL	LOOSE	30	75
GRAY	GRAVEL		CEMENTED	75	82

31

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
82	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
6 1/2	1 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE 5 ☐ PLASTIC	.188	+1	82
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE 5 ☐ PLASTIC			
	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	TO	MATERIAL AND TYPE (CEMENT GROUT LEAD PACKER, ETC.)

71 PUMPING TEST

PUMPING TEST METHOD: 1 ☒ PUMP 2 ☐ BAILER

PUMPING RATE: 15 GPM

DURATION OF PUMPING: 1 HOURS ___ MINS

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

IF FLOWING, GIVE RATE: ___ GPM

PUMP INTAKE SET AT: 60 FEET

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

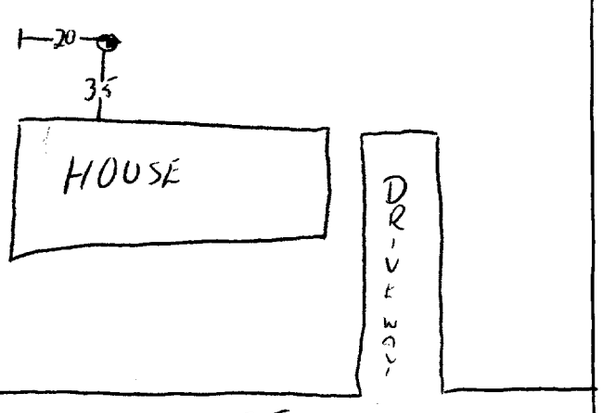
RECOMMENDED PUMP TYPE: ☐ SHALLOW ☒ DEEP

RECOMMENDED PUMP SETTING: 50 FEET

RECOMMENDED PUMPING RATE: 15 GPM

LOCATION OF WELL

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



DRILLERS REMARKS: 093420

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

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

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

CONTRACTOR

NAME OF WELL CONTRACTOR: RELIABLE — WELL CONTRACTOR'S LICENCE NUMBER: 4552

ADDRESS: CAMBRIDGE

NAME OF WELL TECHNICIAN: G. DRYSDALE — WELL TECHNICIAN'S LICENCE NUMBER: T-0671

SIGNATURE OF TECHNICIAN/CONTRACTOR: [signature] — SUBMISSION DATE: DAY 26 MO 06 YR 92

OFFICE USE ONLY

DATA SOURCE — CONTRACTOR: 4552 — DATE RECEIVED: JUN 29 1992

DATE OF INSPECTION — INSPECTOR

REMARKS

CSS.ES

MINISTRY OF THE ENVIRONMENT COPY

FORM NO. 0506 (11/86) FORM 9

Ministry of Environment and Energy
Ontario

The Ontario Water Resources Act
WATER WELL RECORD

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

11 | 6508145 | Municipality 65506 | Con. CON

79-97

County or District	Township/Borough/City/Town/Village	Con block tract survey, etc.	Lot
WATERLOO	CAMBRIDGE	171 ROBINSON	Rd.

Owner's surname	First name	Address	Date completed
JOH Collins CONST.		29 SIMONA PLACE, AYR, ONT. N0B-1E0	03 09 97 (day month year)

21 | UTM Zone | Easting | 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	25
GREY	CLAY	STONES		25	60
GREY	CLAY	SAND		60	80
GREY	CLAY	SAND - GRAVEL		80	85
BROWN	GRAVEL		COARSE	85	90
			TOTAL DEPTH	90'	
		6" DRIVE SHOE			

31
32

41 WATER RECORD

Water found at – feet	Kind of water
90	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
6"	1 ☒ Steel 2 ☐ Galvanized 3 ☐ Concrete 4 ☐ Open hole 5 ☐ Plastic	.188	+1	90
	1 ☐ Steel 2 ☐ Galvanized 3 ☐ Concrete 4 ☐ Open hole 5 ☐ Plastic			
	1 ☐ Steel 2 ☐ Galvanized 3 ☐ Concrete 4 ☐ Open hole 5 ☐ Plastic			

SCREEN

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

61 PLUGGING & SEALING RECORD

☒ Annular space ☐ Abandonment

Depth set at – feet From	To	Material and type (Cement grout, bentonite, etc.)
0	25	BENTONITE

71 PUMPING TEST

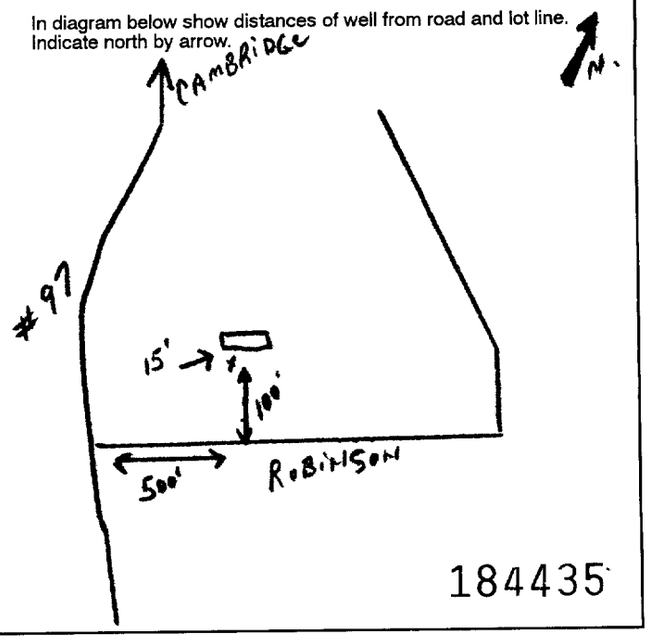
Pumping test method: 1 ☒ Pump 2 ☐ Bailer
Pumping rate: 10 GPM
Duration of pumping: 1 Hours 0 Mins

Static level	Water level end of pumping	Water levels during ☒ Pumping ☐ Recovery: 15 minutes	30 minutes	45 minutes	60 minutes
20 feet	65 feet	42 feet	58 feet	65 feet	65 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: 75-80 feet
Recommended pump rate: 10 GPM

LOCATION OF WELL

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



184435

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	Well Contractor's Licence No.
GRAHAM WELL DRILLING LTD	2336
Address: RR#5 ROCKWOOD, ONT. N0B-2K0	
Name of Well Technician: Jim Wilson	Well Technician's Licence No.: T-1924
Signature of Technician/Contractor: R. Graham	Submission date: 030 09 97 (day mo yr)

MINISTRY USE ONLY

Data source	Contractor	Date received
	2336	OCT 08 1997
Date of inspection	Inspector	
Remarks		

CSS.S8

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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 **6508648** Municipality 65505 Con CON 09

County or District	Township/Borough/City/Town/Village	Con block tract survey, etc.	Lot
Waterloo	North Dumfries	9	I

[redacted]

Address: RR#6 Cambridge Ontario

Date completed: 29 Nov 99 (day month 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	Depth - feet To
Brown	clay	stone gravel		0	77
Grey	limestone			77	89

31

32

41 WATER RECORD

Water found at - feet	Kind of water
87	☑ 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
6 5/4	☑ Steel ☐ Galvanized ☐ Concrete ☐ Open hole ☐ Plastic	188	0	77
6 5/8	☐ Steel ☐ Galvanized ☐ Concrete ☐ Open hole ☐ Plastic		77	89
	☐ 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	Depth set at - feet To	Material and type (Cement grout, bentonite, etc.)

71 PUMPING TEST

Pumping test method	Pumping rate	Duration of pumping
☑ Pump ☐ Bailer	20 GPM	1 Hours 0 Mins

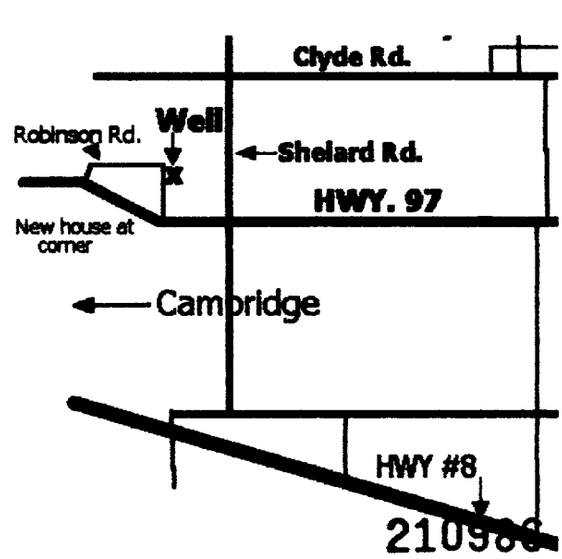
Static level	Water level end of pumping	Water levels during ☐ Pumping ☑ Recovery			
		15 minutes	30 minutes	45 minutes	60 minutes
12 feet	85 feet	12 feet	12 feet	12 feet	12 feet

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

Recommended pump type	Recommended pump setting	Recommended pump rate
☐ Shallow ☑ Deep	50 feet	15 GPM

LOCATION OF WELL

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



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.
Packham Well Drilling Inc	4207
Address: RR#2 Lancaster Ontario	
Name of Well Technician: Mervyn Packham	Well Technician's Licence No. T0058
Signature of Technician/Contractor: Mervyn Packham	Submission date: 30 Nov 99 (day mo yr)

MINISTRY USE ONLY

Data source	Contractor	Date received
	4207	APR 17 2000

Date of inspection: Inspector:

Remarks: CSS.ES0

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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 **6508649** Municipality 65505 Con. CON 09

County or District	Township/Borough/City/Town/Village	Con block tract survey, etc.	Lot
Waterloo	North Dumfries	9	I

[redacted]

Address: RR #6 Cambridge Ontario — Date completed: 27 (day) Nov (month) 99 (year)

21 Northing: 154 Robinson Rd — RC — Elevation — RC — Basin Code

LOG OF OVERBURDEN AND BEDROCK MATERIALS (see instructions)

General colour	Most common material	Other materials	General description	Depth - feet From	Depth - feet To
Brown	clay	stones gravel		0	86
Grey	limestone			86	95

31

32

41 WATER RECORD

Water found at - feet	Kind of water
94	☑ 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
6 1/4	☑ Steel ☐ Galvanized ☐ Concrete ☐ Open hole ☐ Plastic	188	0	86
6 1/8	☐ Steel ☐ Galvanized ☐ Concrete ☑ Open hole ☐ Plastic		86	95
	☐ 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.)

71 PUMPING TEST

Pumping test method: ☑ Pump ☐ Bailer — Pumping rate: 50 GPM — Duration of pumping: 1 Hours 0 Mins

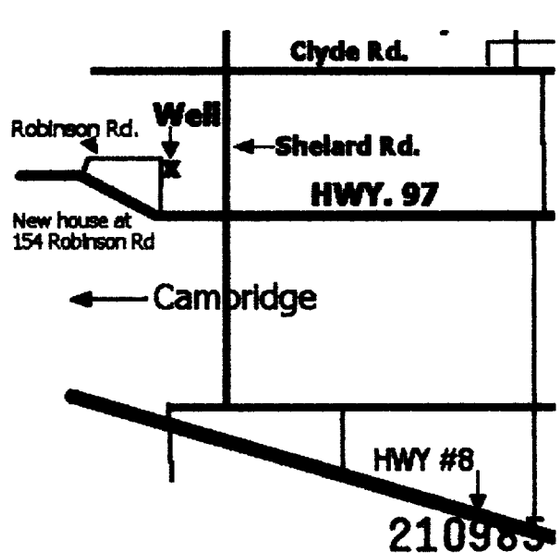
Static level	Water level end of pumping	Water levels during ☐ Pumping ☑ Recovery			
12 feet	95 feet	15 minutes 12 feet	30 minutes 12 feet	45 minutes 12 feet	60 minutes 12 feet

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

Recommended pump type: ☐ Shallow ☑ Deep — Recommended pump setting: 50 feet — Recommended pump rate: 20 GPM

LOCATION OF WELL

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



FINAL STATUS OF WELL

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

WATER USE

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

METHOD OF CONSTRUCTION

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

Name of Well Contractor	Well Contractor's Licence No.
Packham Well Drilling Inc	4207
Address: RR#2 Ancaster Ontario	
Name of Well Technician: Mervyn Packham	Well Technician's Licence No. T0058
Signature of Technician/Contractor: Mervyn Packham	Submission date: 30 (day) Nov (mo) 99 (yr)

MINISTRY USE ONLY

Data source	Contractor	Date received
	4207	APR 17 2000
Date of inspection	Inspector	
Remarks		

CSS.ES0

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0506 (11/98) Front Form 9

MINISTRY OF THE ENVIRONMENT
The Ontario Water Resources Act

WATER WELL RECORD

Ontario

40P/8C

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

11 | 6808737 | MUNICIP. 68003 | CON. CON 09

COUNTY OR DISTRICT: Ottawa WATERLOO | TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: Beverly N. DUMFRIES | CON., BLOCK, TRACT, SURVEY, ETC.: 9 | 001

[redacted] | DATE COMPLETED: DAY 09 MO. Sept YR. 73

[redacted] 00940 | RC 6 | ELEVATION 0960 | RC 4 | BASIN CODE 23

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	TO
Grey	Clay	some Gravel		1	90
Grey	Clay	Stones		90	95
Grey	Limestone			95	100

31 | 00902051 1 | 00952051 2 | 01002 15

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0098	1 ☒ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	TO
06	1 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	188	00095	0095
06	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			

SCREEN

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

61 PLUGGING & SEALING RECORD

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

71 PUMPING TEST

PUMPING TEST METHOD: 1 ☒ PUMP 2 ☐ BAILER | PUMPING RATE: 0050 GPM | DURATION OF PUMPING: 01 HOURS 00 MINS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING (1 ☐ PUMPING 2 ☒ RECOVERY) 15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
017 FEET	090 FEET	020 FEET	018 FEET	018 FEET	018 FEET

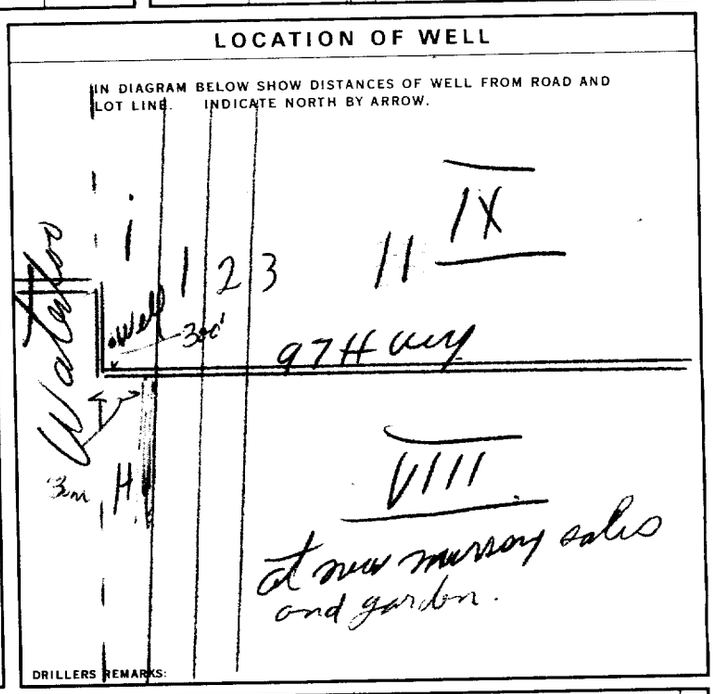
IF FLOWING, GIVE RATE: GPM | PUMP INTAKE SET AT: FEET | WATER AT END OF TEST: 1 ☒ CLEAR 2 ☐ CLOUDY

RECOMMENDED PUMP TYPE: ☐ SHALLOW ☒ DEEP | RECOMMENDED PUMP SETTING: 075 FEET | RECOMMENDED PUMPING RATE: 0030 GPM

RECOMMENDED PUMPING RATE: 0030 GPM | 50-53: 0.0.1 GPM./FT. SPECIFIC CAPACITY

LOCATION OF WELL

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



DRILLERS REMARKS:

FINAL STATUS OF WELL

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

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: Wesley Pockthorn | LICENCE NUMBER: 4208

ADDRESS: RR2 Ancaster

NAME OF DRILLER OR BORER: Marvyn Pockthorn | LICENCE NUMBER: 4207

SIGNATURE OF CONTRACTOR: Wesley Pockthorn | SUBMISSION DATE: DAY 9 MO. Sept YR. 73

OFFICE USE ONLY

DATA SOURCE: 1 | CONTRACTOR: 4208 | DATE RECEIVED: 29 01 74

DATE OF INSPECTION | INSPECTOR

REMARKS: Owner Said Vented & Sealed.

CSS.58

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FORM 7 07-091

MINISTRY OF THE ENVIRONMENT COPY

Ontario — Ministry of the Environment

Measurements recorded in: ☐ Metric ☐ Imperial

Well Tag No. **A 081693**

Well Record

Regulation 903 Ontario Water Resources Act

Page ____ of ____

[redacted]

Address of Well Location (Street Number/Name)	Township	Lot	Concession
1440 Shellard Rd.	N. Dumfries	I	9

County/District/Municipality	City/Town/Village	Province	Postal Code
Waterloo	.	Ontario	

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 83	17	560508	4801372	.	.

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	Depth (m/ft) To
brown	gravel	stones clay		0 ft.	48 ft.
brown	clay	gravel		4 ft	82 ft.
grey	limestone			82 ft.	93 ft.
.	.			.	.
.	.			.	.

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m^3/ft^3)
0 ft.	20 ft.	Bentonite	10 cu.ft.
.	.	.	.
.	.		

Results of Well Yield Testing

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

If pumping discontinued, give reason:

Pump intake set at (m/ft): 80 ft.

Pumping rate (l/min / GPM): 10 gpm.

Duration of pumping: ____ hrs + ____ min

Final water level end of pumping (m/ft): 25 ft.

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

Recommended pump depth (m/ft): 80 ft.

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

Well production (l/min / GPM): 15 gpm.

Disinfected? ☑ Yes ☐ No

Draw Down Time (min)	Draw Down Water Level (m/ft)	Recovery Time (min)	Recovery Water Level (m/ft)
Static Level	21 ft.		.
1	24 ft.	1	22 ft.
2	23 ft.	2	22 ft.
3	23 ft.	3	22 ft.
4	23 ft.	4	22 ft.
5	23 ft.	5	22 ft.
10	24 ft.	10	22 ft.
15	24 ft.	15	22 ft.
20	24 ft.	20	22 ft.
25	24 ft.	25	21 ft.
30	24 ft.	30	21 ft.
40	24 ft.	40	21 ft.
50	25 ft.	50	21 ft.
60	25 ft.	60	21 ft.

Method of Construction

☐ Cable Tool ☑ Rotary (Conventional) ☐ Rotary (Reverse) ☐ Boring ☐ Air percussion ☐ Other, specify

☐ Diamond ☐ Jetting ☐ Driving ☐ Digging

Well Use

☐ Public ☑ Domestic ☐ Livestock ☐ Irrigation ☐ Industrial ☐ Other, specify

☐ Commercial ☐ Municipal ☐ Test Hole ☐ Cooling & Air Conditioning

☐ Not used ☐ Dewatering ☐ Monitoring

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft) From	Depth (m/ft) To
6.25 in.	steel	188	+2ft.	82 ft.
6.125	open hole	.	82 ft	93 ft.
.	.		.	.

Construction Record - Screen

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

Status of Well

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

Water Details

Water found at Depth 292 (m/ft) ☐ Gas — Kind of Water: ☑ Fresh ☑ Untested ☐ Other, specify

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

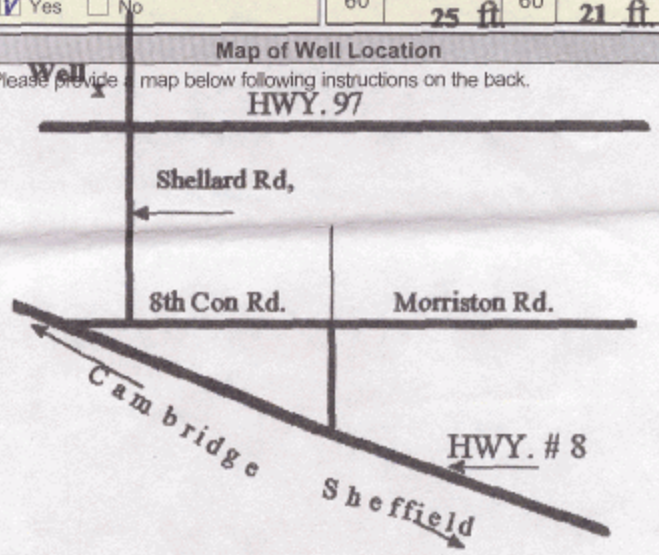
Water found at Depth (m/ft) ☐ Gas — Kind of Water: ☐ Fresh ☐ Untested ☐ Other, specify

Hole Diameter

Depth (m/ft) From	Depth (m/ft) To	Diameter (cm/in)
+2 ft.	82 ft	6.25
82 ft	93 ft	6.125
.	.	.

Map of Well Location

Please provide a map below following instructions on the back.



Comments:

Well Contractor and Well Technician Information

Business Name of Well Contractor: Packham Well Drilling Inc.

Well Contractor's Licence No.: 4207

Business Address (Street Number/Name): 1235 Trinity Road

Municipality: Ancaster

Province: Ontario

Postal Code: L9G3L1

Business E-mail Address: packhamwelldrilling@gmail.com

Bus. Telephone No. (inc. area code): 905 648 2909

Name of Well Technician (Last Name, First Name): Packham Mervyn

Well Technician's Licence No.: 0058

Signature of Technician and/or Contractor: Mervyn Packham

Date Submitted: 2009 09 09

Well owner's information package delivered: ☑ Yes ☐ No

Date Package Delivered: 2009 08 05

Date Work Completed: 2009 08 05

Ministry Use Only

Audit No. Z 93733

Received NOV 27 2009

0506E (12/2007)

Ministry's Copy

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Ontario — Ministry of the Environment

Measurements recorded in: ☑ Metric ☑ Imperial

Well Tag No. (Attach and/or Print Below) **Tag#: A126417**

Well Record

Regulation 903 Ontario Water Resources Act

Page ____ of ____

[redacted]

Address of Well Location (Street Number/Name)	Township	Lot	Concession
#155 ROBINSON RD.	NORTH DUMFRIES	1	BLK. TRACK 10

County/District/Municipality	City/Town/Village	Province	Postal Code
WATERLOO	CAMBRIDGE	Ontario	N1R5S7

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 83	17	559957	4801254		

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	To
BROWN	TOP SOIL			0	2
BROWN	SILT	SAND →	STONES	2	12
BROWN	CLAY			12	52
GREY	GRAVEL			52	58
			TOTAL = 58 FT.		
		6 1/8" CASING DRIVE SHOE			

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
0	20	QUICK GROUT	90 GAL.

Method of Construction

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

Well Use

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

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft) From	To
6 1/4	STEEL CASING	.188	+2	53

Construction Record - Screen

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From	To
5"	STAINLESS STEEL	#30	53	58

Status of Well

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

Results of Well Yield Testing

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

If pumping discontinued, give reason:

Pump intake set at (m/ft): 46

Pumping rate (l/min / GPM): 15

Duration of pumping: 1 hrs + ____ min

Final water level end of pumping (m/ft): 26.1

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

Recommended pump depth (m/ft): 46

Recommended pump rate (l/min / GPM): 15

Well production (l/min / GPM): 15+

Disinfected? ☑ Yes ☐ No

Draw Down Time (min)	Water Level (m/ft)	Recovery Time (min)	Water Level (m/ft)
Static Level	13.8		26.1
1	17.7	1	21.9
2	19.3	2	20.4
3	20.6	3	19.3
4	21.7	4	18.1
5	22.4	5	14.5
10	25.4	10	15.5
15	25.7	15	14.8
20	25.7	20	14.5
25	25.8	25	14.4
30	25.8	30	14.3
40	25.9	40	14.2
50	26.0	50	14.1
60	26.1	60	14.0

Water Details

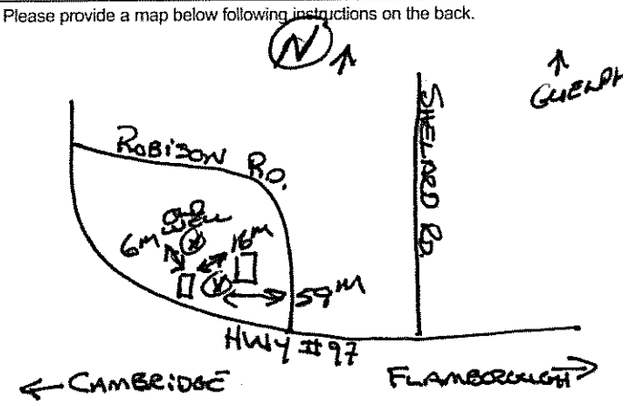
Water found at Depth 53 to 58 (m/ft) ☐ Gas — Kind of Water: ☐ Fresh ☑ Untested ☐ Other, specify ____
Water found at Depth (m/ft) ☐ Gas — Kind of Water: ☐ Fresh ☐ Untested ☐ Other, specify ____
Water found at Depth (m/ft) ☐ Gas — Kind of Water: ☐ Fresh ☐ Untested ☐ Other, specify ____

Hole Diameter

Depth (m/ft) From	To	Diameter (cm/in)
0	20	10"
20	58	6 1/8"

Map of Well Location

Please provide a map below following instructions on the back.



Comments:

Well Contractor and Well Technician Information

Business Name of Well Contractor: HANLON WELL DRILLING LTD. — Well Contractor's Licence No.: 2663

Business Address (Street Number/Name): #5896 CONY RD #7 RR#5 — Municipality: GUELPH

Province: ON — Postal Code: N1H6J2 — Business E-mail Address: hanlonwelldrill@bellnet.ca

Bus. Telephone No. (inc. area code): 519 763 8239 — Name of Well Technician (Last Name, First Name): LANGER TRAVIS

Well Technician's Licence No.: 3580 — Signature of Technician and/or Contractor: [signature] — Date Submitted: 2012/04/15

Well owner's information package delivered ☑ Yes ☐ No — Date Package Delivered: 2012/03/15 — Date Work Completed: 2012/03/15

Ministry Use Only

Audit No. Z143167

Received JUN 1 2012

Ontario — Ministry of the Environment

Measurements recorded in: ☐ Metric ☑ Imperial

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

Tag#: A133616

S-12663

Well Record

Regulation 903 Ontario Water Resources Act

Page [redacted] of [redacted]

Well Owner's Information

First Name	Last Name / Organization	E-mail Address	☐ Well Constructed by Well Owner
[redacted]	BoMet Recycling Inc.		

Mailing Address (Street Number/Name)	Municipality	Province	Postal Code	Telephone No. *(inc. area code)*
2155 Main street East	Cambridge	ON	N1R5S7	

Well Location

Address of Well Location (Street Number/Name)	Township	Lot	Concession
2155 Main Street East			

County/District/Municipality	City/Town/Village	Province	Postal Code
	Hamilton	Ontario	

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 83	17	560001	4800758		WKQ-005047 A0-A02

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	To
Brown	Sand	fill	Soft	0	10'
Brown	Sand	Rock	wet	10'	20'

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m^3/ft^3)
0	1'	Concrete	
1'	9'	Holeplug	
9'	20'	Sand	

Method of Construction

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

Well Use

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

Construction Record - Casing

Inside Diameter *(cm/in)*	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness *(cm/in)*	Depth (m/ft) From	To
2"	PVC	0.25"	0	10'

Construction Record - Screen

Outside Diameter *(cm/in)*	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From	To
2.25"	PVC	10	10'	20'

Status of Well

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

Results of Well Yield Testing

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

If pumping discontinued, give reason:

Pump intake set at *(m/ft)*

Pumping rate *(l/min / GPM)*

Duration of pumping ____ hrs + ____ min

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

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

Recommended pump depth *(m/ft)*

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

Well production *(l/min / GPM)*

Disinfected? ☐ Yes ☐ No

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

Water Details

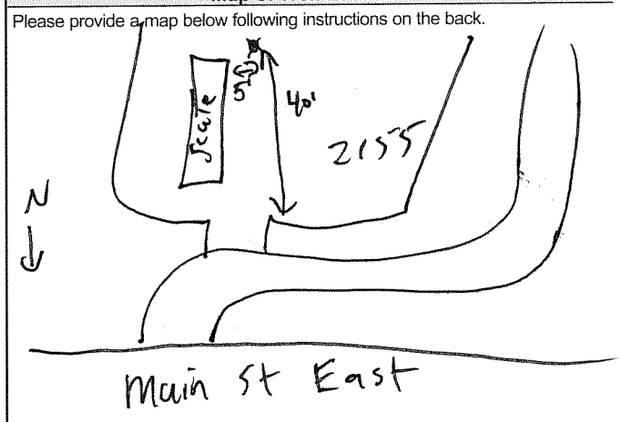
Water found at Depth *(m/ft)*	Kind of Water: ☐ Fresh ☐ Untested ☐ Gas ☐ Other, *specify*
Water found at Depth *(m/ft)*	Kind of Water: ☐ Fresh ☐ Untested ☐ Gas ☐ Other, *specify*
Water found at Depth *(m/ft)*	Kind of Water: ☐ Fresh ☐ Untested ☐ Gas ☐ Other, *specify*

Hole Diameter

Depth (m/ft) From	To	Diameter *(cm/in)*
0	20'	8"

Map of Well Location

Please provide a map below following instructions on the back.



Comments: General contractor: Pinchin Environmental

Well Contractor and Well Technician Information

Business Name of Well Contractor	Well Contractor's Licence No.
Strata Soil Sampling Inc.	7241

Business Address (Street Number/Name)	Municipality
147-2 West Beaver Creek Road	Richmond Hill

Province	Postal Code	Business E-mail Address
Ontario	L4B 1C6	wrecords@stratasoil.com

Bus.Telephone No. *(inc. area code)*	Name of Well Technician (Last Name, First Name)
905-764-9304	Muir Mike

Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted
3448		2012 06 29

Well owner's information package delivered	Date Package Delivered	Date Work Completed
☐ Yes ☒ No		2012 06 15

Ministry Use Only

Audit No. Z152643

AUG 09 2012 Received

Ontario — Ministry of the Environment

Measurements recorded in: ☐ Metric ☒ Imperial

Well Tag No. (Place Sticker and/or Print Below)
Tag#: A133614

S-12663

Well Record

Regulation 903 Ontario Water Resources Act

Page 1 of 2

Well Owner's Information

First Name	Last Name / Organization	E-mail Address	☐ Well Constructed by Well Owner
[redacted]	BoMet Recycling Inc.		

Mailing Address (Street Number/Name)	Municipality	Province	Postal Code	Telephone No. (inc. area code)
2155 Main Street East	Cambridge	ON	N1R 5S7	

Well Location

Address of Well Location (Street Number/Name)	Township	Lot	Concession
2155 Main Street East			

County/District/Municipality	City/Town/Village	Province	Postal Code
	~~Hamilton~~ Cambridge	Ontario	

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 83	17	560054	4800769		WKQ-005047 A0 - A02

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	Depth (m/ft) To
Brown	fill	Sand	Loose	0	5'
Brown	Sand	Rock	wet	5'	20'

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m^3/ft^3)
0	1'	Concrete	
1'	9'	Holeplug	
9'	20'	Sand	

Method of Construction

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

Well Use

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

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft) From	Depth (m/ft) To
2"	PVC	0.25"	0	10'

Construction Record - Screen

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From	Depth (m/ft) To
2.25"	PVC	10	10'	20'

Status of Well

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

Results of Well Yield Testing

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

If pumping discontinued, give reason:

Pump intake set at *(m/ft)*

Pumping rate *(l/min / GPM)*

Duration of pumping ____ hrs + ____ min

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

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

Recommended pump depth *(m/ft)*

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

Well production *(l/min / GPM)*

Disinfected? ☐ Yes ☐ No

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

Water Details

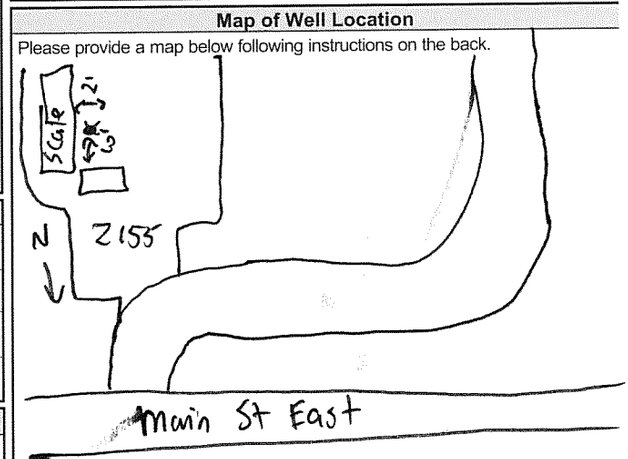
Water found at Depth (m/ft)	Kind of Water	
	☐ Fresh ☐ Untested	☐ Gas ☐ Other, *specify*
	☐ Fresh ☐ Untested	☐ Gas ☐ Other, *specify*
	☐ Fresh ☐ Untested	☐ Gas ☐ Other, *specify*

Hole Diameter

Depth (m/ft) From	Depth (m/ft) To	Diameter (cm/in)
0	20'	8"

Map of Well Location

Please provide a map below following instructions on the back.



Comments: General contractor: Pinchin Environmental

Well Contractor and Well Technician Information

Business Name of Well Contractor	Well Contractor's Licence No.
Strata Soil Sampling Inc.	7241

Business Address (Street Number/Name)	Municipality
147-2 West Beaver Creek Road	Richmond Hill

Province	Postal Code	Business E-mail Address
Ontario	L4B 1C6	wrecords@stratasoil.com

Bus. Telephone No. (inc. area code)	Name of Well Technician (Last Name, First Name)
905-764-9804	Muir, Mike

Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted
3448		2012 06 29

Well owner's information package delivered	Date Package Delivered	Date Work Completed
☐ Yes ☒ No		2012 06 15

Ministry Use Only

Audit No. Z152642

Received AUG 09 2012

Ontario — Ministry of the Environment

Measurements recorded in: ☐ Metric ☒ Imperial

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

Tag#: A133615

S-12663

Well Record

Regulation 903 Ontario Water Resources Act

Page 2 of 3

Well Owner's Information

First Name	Last Name / Organization	E-mail Address	☐ Well Constructed by Well Owner
[redacted]	Bollet Recycling Inc.		

Mailing Address (Street Number/Name)	Municipality	Province	Postal Code	Telephone No. *(inc. area code)*
2155 Main Street East	Cambridge	ON	N1R5S7	

Well Location

Address of Well Location (Street Number/Name)	Township	Lot	Concession
2155 Main Street East			

County/District/Municipality	City/Town/Village	Province	Postal Code
	~~Hamilton~~ Cambridge	Ontario	

UTM Coordinates NAD 83	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
	17	559973	4800722		WKQ-005047 A0-A03

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	To
Brown	Sand	fill	Loose	0	10'
Brown	Sand	Rock	wet	10'	20'

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m^3/ft^3)
0	1'	Concrete	
1'	9'	Holeplug	
9'	20'	Sand	

Method of Construction

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

Well Use

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

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft) From	To
2"	PVC	0.25"	0	10'

Construction Record - Screen

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From	To
2.25"	PVC	10	10'	20'

Status of Well

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

Water Details

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

Hole Diameter

Depth (m/ft) From	To	Diameter (cm/in)
0	20'	8"

Results of Well Yield Testing

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

If pumping discontinued, give reason:

Pump intake set at *(m/ft)*

Pumping rate *(l/min / GPM)*

Duration of pumping ____ hrs + ____ min

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

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

Recommended pump depth *(m/ft)*

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

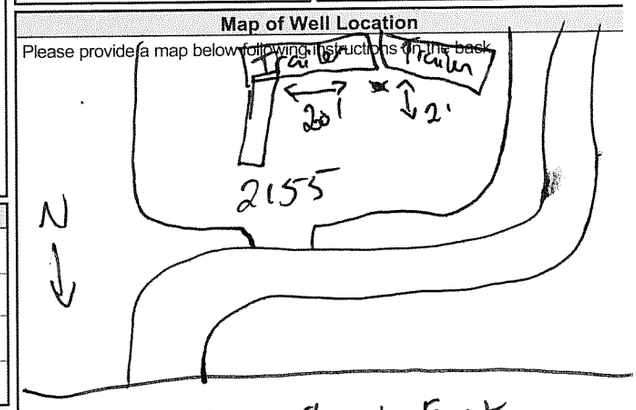
Well production *(l/min / GPM)*

Disinfected? ☐ Yes ☐ No

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

Map of Well Location

Please provide a map below following instructions on the back.



Comments: General contractor: Pinchin Environmental

Well Contractor and Well Technician Information

Business Name of Well Contractor	Well Contractor's Licence No.
Strata Soil Sampling Inc.	7241

Business Address (Street Number/Name)	Municipality
147-2 West Beaver Creek Road	Richmond Hill

Province	Postal Code	Business E-mail Address
Ontario	L4B 1G6	wrecords@stratasoil.com

Bus.Telephone No. *(inc. area code)*	Name of Well Technician (Last Name, First Name)
905-764-9304	Muir, Mike

Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted
3448		2012 06 28

Well owner's information package delivered	Date Package Delivered	Date Work Completed
☐ Yes ☒ No		2012 06 15

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Audit No. Z152641

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Well ID

Well ID Number: 7194992
Well Audit Number: *Z65675*
Well Tag Number:

This table contains information from the original well record and any subsequent updates.

Well Location

Address of Well Location	155 ROBINSON RD.
Township	NORTH DUMFRIES TOWNSHIP
Lot	001
Concession	CON 10
County/District/Municipality	WATERLOO
City/Town/Village	CAMBRIDGE
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 17 Easting: 559946.00 Northing: 4801272.00
Municipal Plan and Sublot Number	
Other	

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
-24.38 m	-1.52 m	3/8 " HOLEPLUG/ BENTONITE CHIPS	
-1.52 m	-.6096 m	CLEAN FILL	
-.6096 m	0 m	3/8' HOLEPLUG	
0 m	.305 m	CLEAN FILL	

Method of Construction & Well Use

Method of Construction Well Use

Status of Well

Abandoned-Quality

Construction Record - Casing

Inside Diameter	Open Hole or material	Depth From	Depth To

Construction Record - Screen

Outside Diameter	Material	Depth From	Depth To

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 7348

Results of Well Yield Testing

After test of well yield, water was
If pumping discontinued, give reason
Pump intake set at
Pumping Rate
Duration of Pumping
Final water level
If flowing give rate
Recommended pump depth
Recommended pump rate
Well Production
Disinfected?

Draw Down & Recovery

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

Water Details

Water Found at Depth	Kind

Hole Diameter

Depth From	Depth To	Diameter

Audit Number: Z65675

Date Well Completed:

Date Well Record Received by MOE: January 09, 2013

Ontario — Ministry of the Environment and Climate Change

Measurements recorded in: ☒ Metric ☐ Imperial

Well A 090015 (Below) A090015

Well Record

Regulation 903 Ontario Water Resources Act

Page 1 of 1

[redacted]

Address of Well Location (Street Number/Name)	Township	Lot	Concession
175 ROBINSON ROAD	CITY OF CAMBRIDGE		9

County/District/Municipality	City/Town/Village	Province	Postal Code
	CAMBRIDGE	Ontario	N1R5S7

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 83	17	[illegible]	4861221		

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	To
BROWN	SILTY SAND	GRAVEL		0	3.1
BROWN	SILTY CLAY	STONES & ROCKS		3.1	17.4
GREY	SILTY CLAY	STONES		17.4	25.3
GREY	CLAY	GRAVEL		25.3	28.7
BROWN	SAND	GRAVEL & SILT		28.7	30.8
GREY	LIMESTONE			30.8	32.3

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m^3)
0	7.6	BENTONITE HOLEPLUG	.2

Method of Construction

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

Well Use

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

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft) From	To
16.0	STEEL	.5	+.76	31.4
15.6	OPEN HOLE		31.4	32.3

Construction Record - Screen

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

Status of Well

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

Water Details

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

Hole Diameter

Depth (m/ft) From	To	Diameter (cm/in)
0	7.6	25.0
7.6	31.4	20.0
31.4	32.3	15.6

Results of Well Yield Testing

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

If pumping discontinued, give reason:

Pump intake set at (m/ft): 7.6 m / 25'

Pumping rate (l/min / GPM): 68.1 LPM / 15 IGPM

Duration of pumping: 1 hrs + 0 min

Final water level end of pumping (m/ft): 5.41 m / 18' 2"

If flowing give rate (l/min / GPM)

Recommended pump depth (m/ft): 7.6 m / 25'

Recommended pump rate (l/min / GPM): 45.4 LPM / 10 IGPM

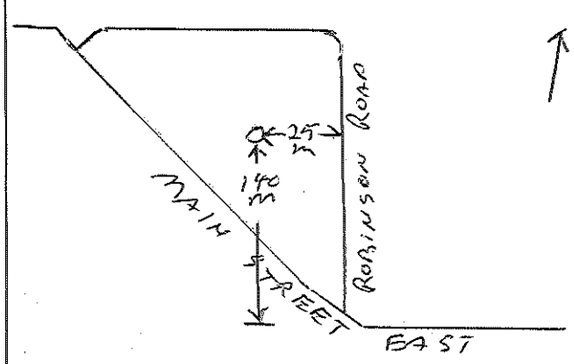
Well production (l/min / GPM)

Disinfected? ☒ Yes ☐ No

Draw Down Time (min)	Water Level (m/ft)	Recovery Time (min)	Water Level (m/ft)
Static Level	5.41		5.54
1	5.48	1	5.48
2	5.52	2	5.48
3	5.52	3	5.48
4	5.52	4	5.44
5	5.54	5	5.44
10	5.54	10	5.41
15	5.54	15	5.41
20	5.54	20	5.41
25	5.54	25	5.41
30	5.54	30	5.41
40	5.54	40	5.41
50	5.54	50	5.41
60	5.54	60	5.41

Map of Well Location

Please provide a map below following instructions on the back.



Comments:

Well Contractor and Well Technician Information

Business Name of Well Contractor	Well Contractor's Licence No.
WELL INITIATIVES	7221

Business Address (Street Number/Name)	Municipality
15 TOWNLINE	ORANGEVILLE

Province	Postal Code	Business E-mail Address
ON	L9W3R4	INFO@WELLINITIATIVES.COM

Bus. Telephone No. (inc. area code)	Name of Well Technician (Last Name, First Name)
519846825	BROADFOOT JIM

Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted
0370	Jim Broadfoot	20170831

Well owner's information package delivered	Date Package Delivered	Date Work Completed
☐ Yes ☒ No	YYYY MM DD	20170829 YYYY MM DD

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Audit No. Z264039

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57-17

Ontario — Ministry of the Environment and Climate Change

Measurements recorded in: ☐ Metric ☒ Imperial

Well Tag No. (Place Sticker and/or Print Below)
Tag#: A 229356
A229356

Well Record

Regulation 903 Ontario Water Resources Act

Page ____ of ____

Well Owner's Information

First Name	Last Name / Organization	E-mail Address	☐ Well Constructed by Well Owner
	8141614 CANADA INC.		

Mailing Address (Street Number/Name)	Municipality	Province	Postal Code	Telephone No. (inc. area code)
2105 MAIN ST.	CAMBRIDGE	ON	N1R5S7	519 624 0633

Well Location

Address of Well Location (Street Number/Name)	Township	Lot	Concession
2105 MAIN ST.	CAMBRIDGE NDUMFRIES	1	10

County/District/Municipality	City/Town/Village	Province	Postal Code
WATERLOO	CITY OF CAMBRIDGE	Ontario	N1R5S7

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 83	17	560075	4881033		

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	To
BROWN	CLAY	STONES		0	35
GREY	CLAY	STONES		35	78
BROWN	GRAVEL	SAND	COARSE	78	85
			TOTAL DEPTH	85 FT	

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m^3/ft^3)
0	20	BENTONITE	

Method of Construction

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

Well Use

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

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft) From	To
6¼	STEEL	.188	+2	85

Status of Well

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

Construction Record - Screen

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

Water Details

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

Hole Diameter

Depth (m/ft) From	To	Diameter (cm/in)
0	20	10"
20	85	6¼"

Results of Well Yield Testing

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

If pumping discontinued, give reason:

Pump intake set at (m/ft): 50 FT

Pumping rate (l/min / GPM): 10 GPM

Duration of pumping: 1 hrs + 0 min

Final water level end of pumping (m/ft): 34 FT

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

Recommended pump depth (m/ft): 50 FT

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

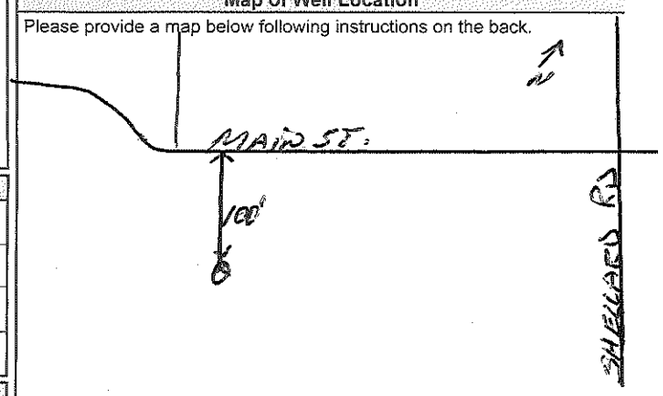
Well production (l/min / GPM): 10 GPM

Disinfected? ☒ Yes ☐ No

Draw Down Time (min)	Water Level (m/ft)	Recovery Time (min)	Water Level (m/ft)
Static Level	17		
1	20	1	30
2	23	2	26
3	26	3	23
4	29	4	20
5	31	5	18
10	34	10	17
15	34	15	17
20	34	20	17
25	34	25	17
30	34	30	17
40	34	40	17
50	34	50	17
60	34	60	17

Map of Well Location

Please provide a map below following instructions on the back.



Comments:

Well Contractor and Well Technician Information

Business Name of Well Contractor	Well Contractor's Licence No.
JIM WILSON WELL DRILLING LTD	7385

Business Address (Street Number/Name)	Municipality
551 EBY CREST RD.	WATERLOO

Province	Postal Code	Business E-mail Address
ON	N2J 4G8	

Bus. Telephone No. (inc. area code)	Name of Well Technician (Last Name, First Name)
519 648 2412	WILSON JIM

Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted
T1924		2017 09 29

Well owner's information package delivered	Date Package Delivered	Date Work Completed
☒ Yes ☐ No	2017 09 11	2017 09 11

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Received OCT 11 2017

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Ontario Ministry of the Environment, Conservation and Parks

Measurements recorded in: ☐ Metric ☒ Imperial

Well Tag No. (Place Sticker and/or Print Below)
Tag#:A417126

Well Record

Regulation 903 Ontario Water Resources Act

Page 1 of 1

Well Owner's Information

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

Mailing Address (Street Number/Name)	Municipality	Province	Postal Code	Telephone No. (inc. area code)
3024 Old Beverly	Waterloo	Ont	N1R5W6	5195054044

Well Location

Address of Well Location (Street Number/Name)	Township	Lot	Concession
Lot 4 Robinson Rd	City of Cambridge	1	9

County/District/Municipality	City/Town/Village	Province	Postal Code
Waterloo	Cambridge	Ontario	N1R5W6

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 83	17	560059	4801235		

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	To
brown	clay	roots, loam		0	3
brown	clay	stones		3	8
brown	gravel	sand, clay, stones		8	55
grey	clay	stones		55	75
grey	limestone		hard	75	80
grey	limestone		soft	80	91
grey	limestone	stones		91	98
grey	limestone			98	110

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
0	20	bentonite clay	3.75 ft3

Method of Construction

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

Well Use

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

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft) From	To
6.25	steel	.188	+2	98
6"	open hole		98	110

Construction Record - Screen

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

Status of Well

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

Water Details

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

Hole Diameter

Depth (m/ft) From	To	Diameter (cm/in)
0	98	9"
98	110	6"

Results of Well Yield Testing

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

If pumping discontinued, give reason:

Pump intake set at (m/ft): 65'

Pumping rate (l/min / GPM): 20 gpm

Duration of pumping: 1 hrs + 0 min

Final water level end of pumping (m/ft): 17.9

If flowing give rate (l/min/GPM)

Recommended pump depth (m/ft): 50'

Recommended pump rate (l/min/GPM): 20gpm

Well production (l/min/GPM): 20+ gpm

Disinfected? ☒ Yes ☐ No

Draw Down Time (min)	Water Level (m/ft)	Recovery Time (min)	Water Level (m/ft)
Static Level	17.2		
1	17.5	1	17.6
2	17.5	2	17.5
3	17.6	3	17.5
4	17.6	4	17.5
5	17.6	5	17.5
10	17.7	10	17.4
15	17.7	15	17.4
20	17.8	20	17.4
25	17.8	25	17.4
30	17.8	30	17.3
40	17.8	40	17.3
50	17.8	50	17.3
60	17.9	60	17.2

Map of Well Location

Please provide a map below following instructions on the back.

Comments:

Well Contractor and Well Technician Information

Business Name of Well Contractor	Well Contractor's Licence No.
Martin Well Drilling Inc.	7557

Business Address (Street Number/Name)	Municipality
PO Box 60 Alma	Wellington

Province	Postal Code	Business E-mail Address
Ontario	N0B1A0	

Bus. Telephone No. (inc. area code)	Name of Well Technician (Last Name, First Name)
5198469162	Martin, Jeff

Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted
3253		Y Y Y Y M M D D

Well owner's information package delivered	Date Package Delivered	Date Work Completed
☐ Yes ☐ No	Y Y Y Y M M D D	2026 05 20

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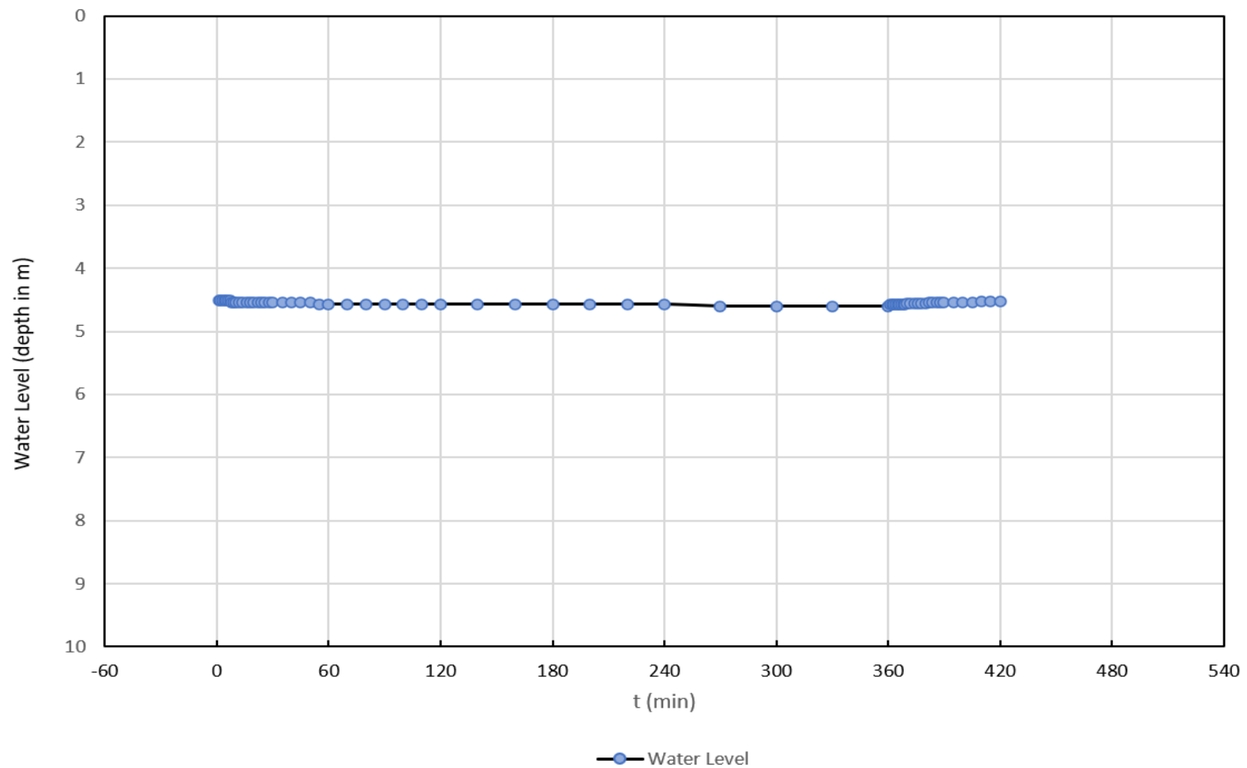
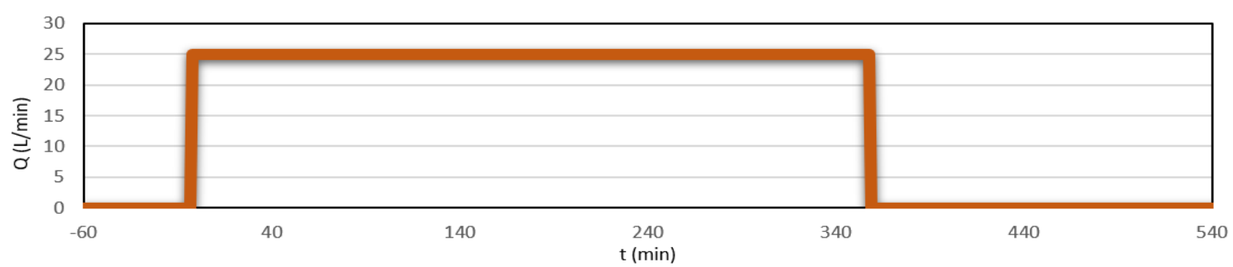
Appendix B – Well Hydrographs



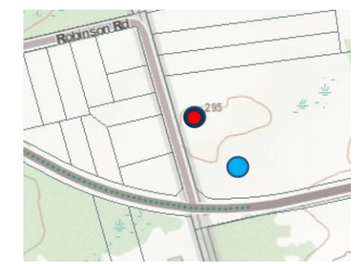


GREER GALLOWAY
a division of Jp2g Consultants Inc.

NOTES:

1) Test completed May 28, 2026

KEY PLAN:

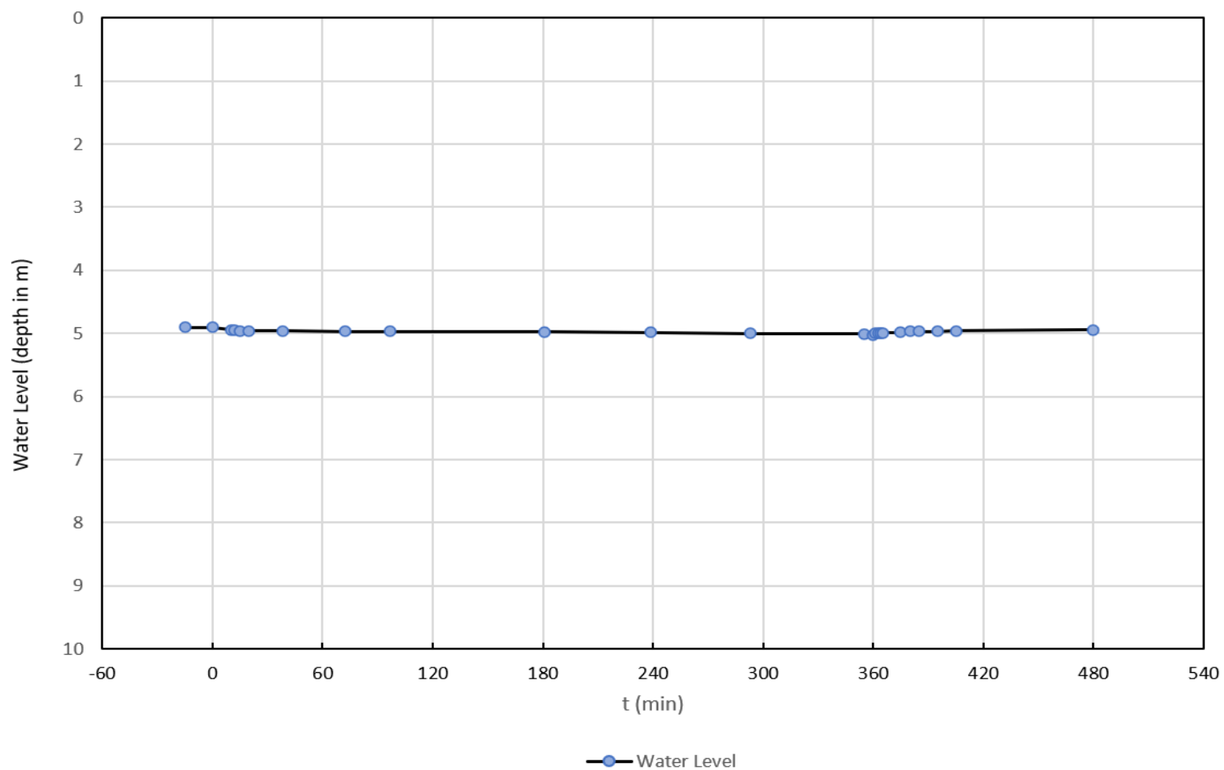


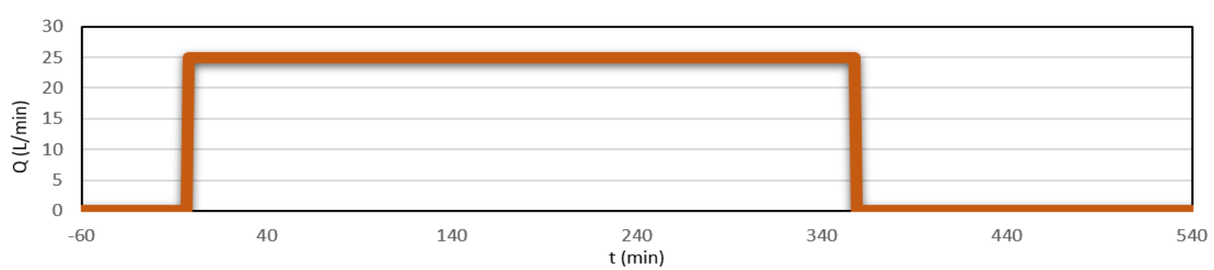
PROJECT 26-6001A:

HYDROGEOLOGY AND TERRAIN EVALUATION
PROPOSED RURAL RESIDENTIAL LOTS
3024 OLD BEVERLY ROAD

FIGURE B-1:

WELL HYDROGRAPH – TW-1 (A417126)





GREER GALLOWAY
a division of Jp2g Consultants Inc.

NOTES:

1) Test completed May 28, 2026

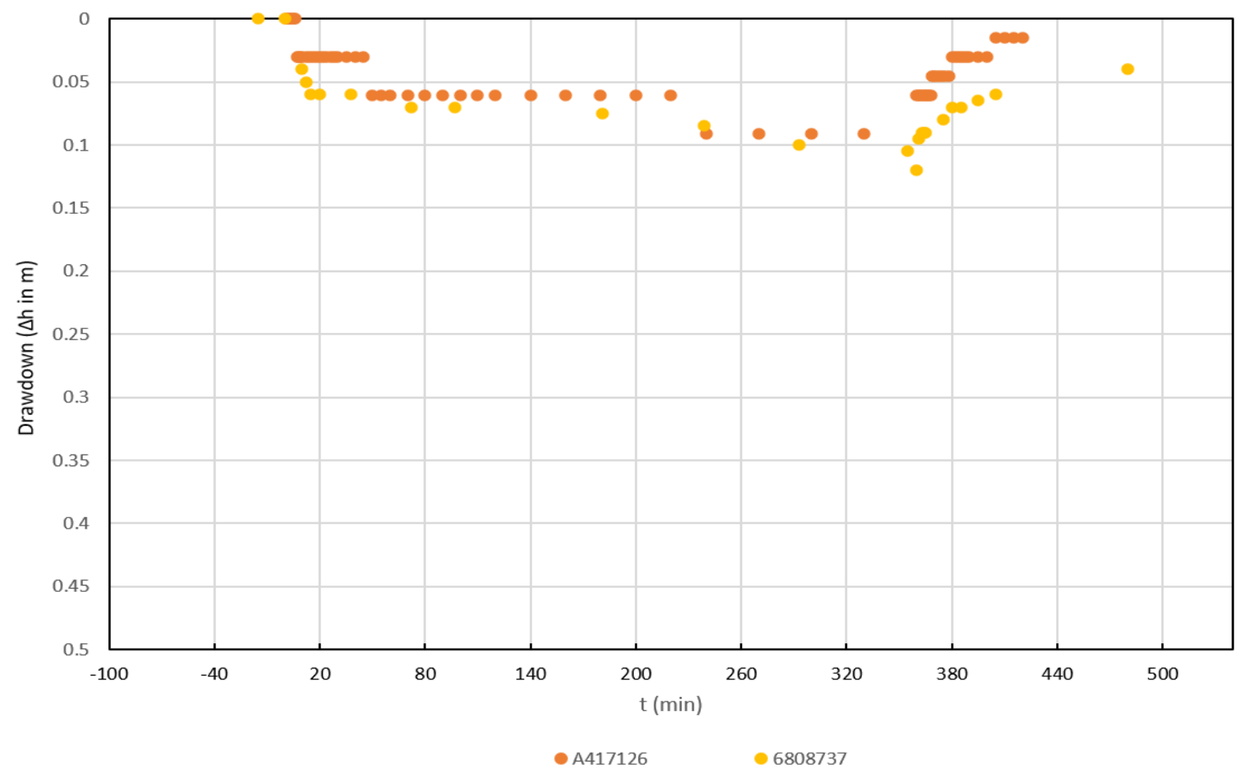
KEY PLAN:

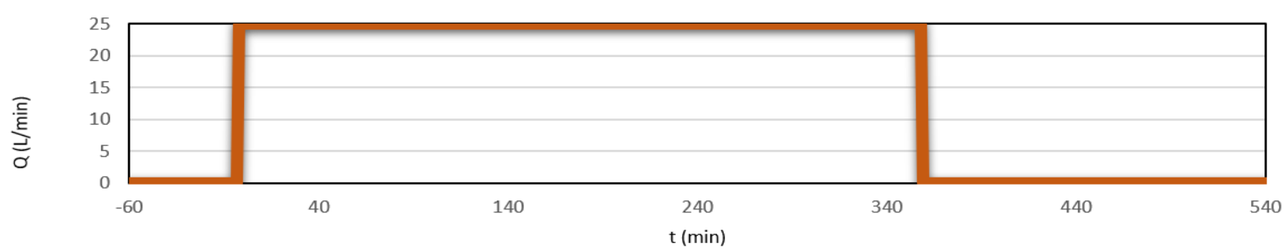
PROJECT 26-6001A:

HYDROGEOLOGY AND TERRAIN EVALUATION
PROPOSED RURAL RESIDENTIAL LOTS
3024 OLD BEVERLY ROAD

FIGURE B-2:

WELL HYDROGRAPH – OW-2 (WWR# 6808737)





GREER GALLOWAY
a division of Jp2g Consultants Inc.

NOTES:

1) Test completed May 28, 2026

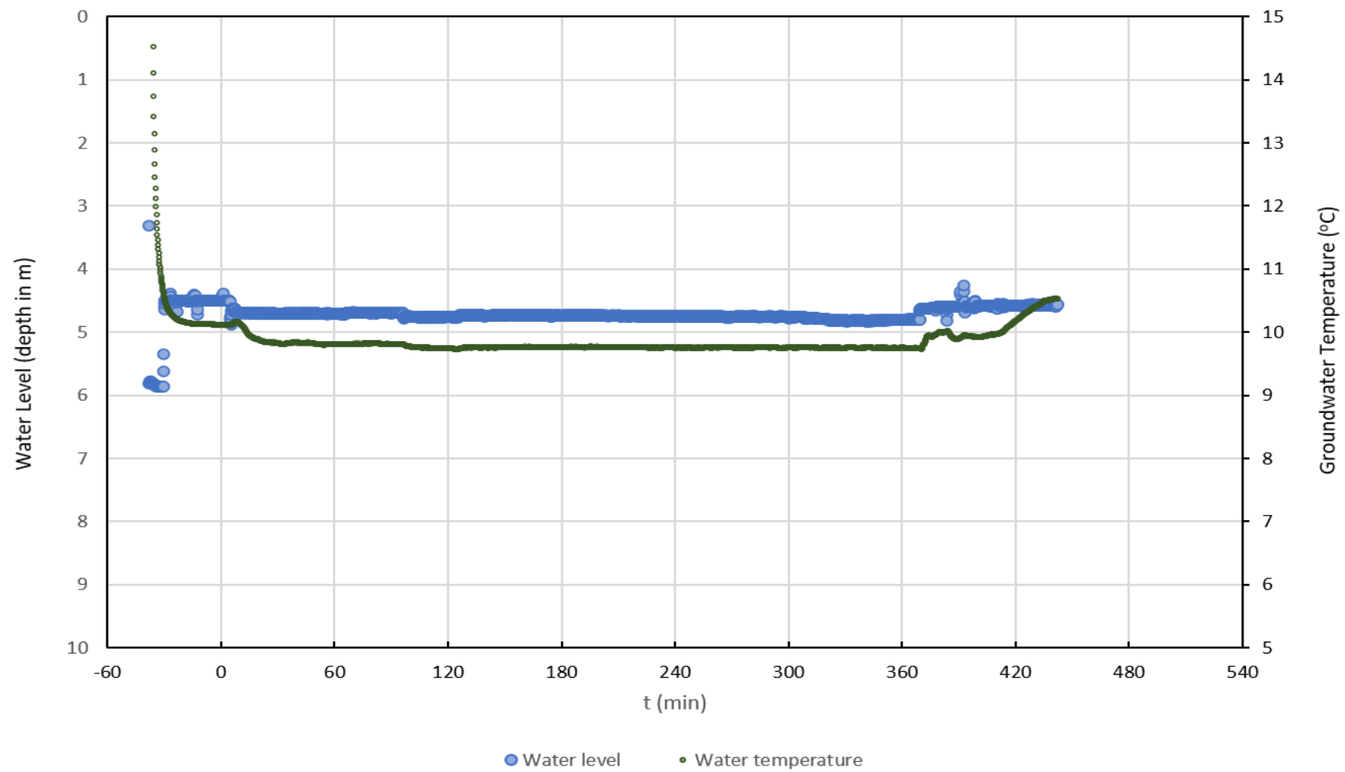
KEY PLAN:

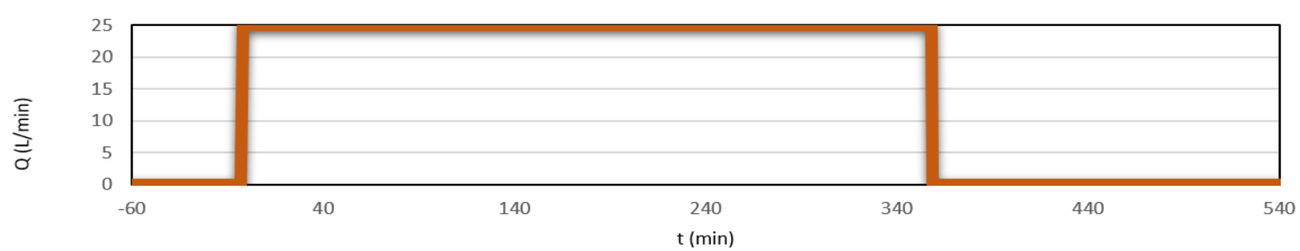
PROJECT 26-6001A:

HYDROGEOLOGY AND TERRAIN EVALUATION
PROPOSED RURAL RESIDENTIAL LOTS
3024 OLD BEVERLY ROAD

FIGURE B-3:

ΔH OVERLAY





GREER GALLOWAY
a division of Jp2g Consultants Inc.

NOTES:

1) Test completed June 4, 2026
2) On-site pressure and temperature data collected using a Solinst Model 3001 datalogging transducer using 10 s intervals
3) Water level data is not corrected for fluctuations in barometric pressure

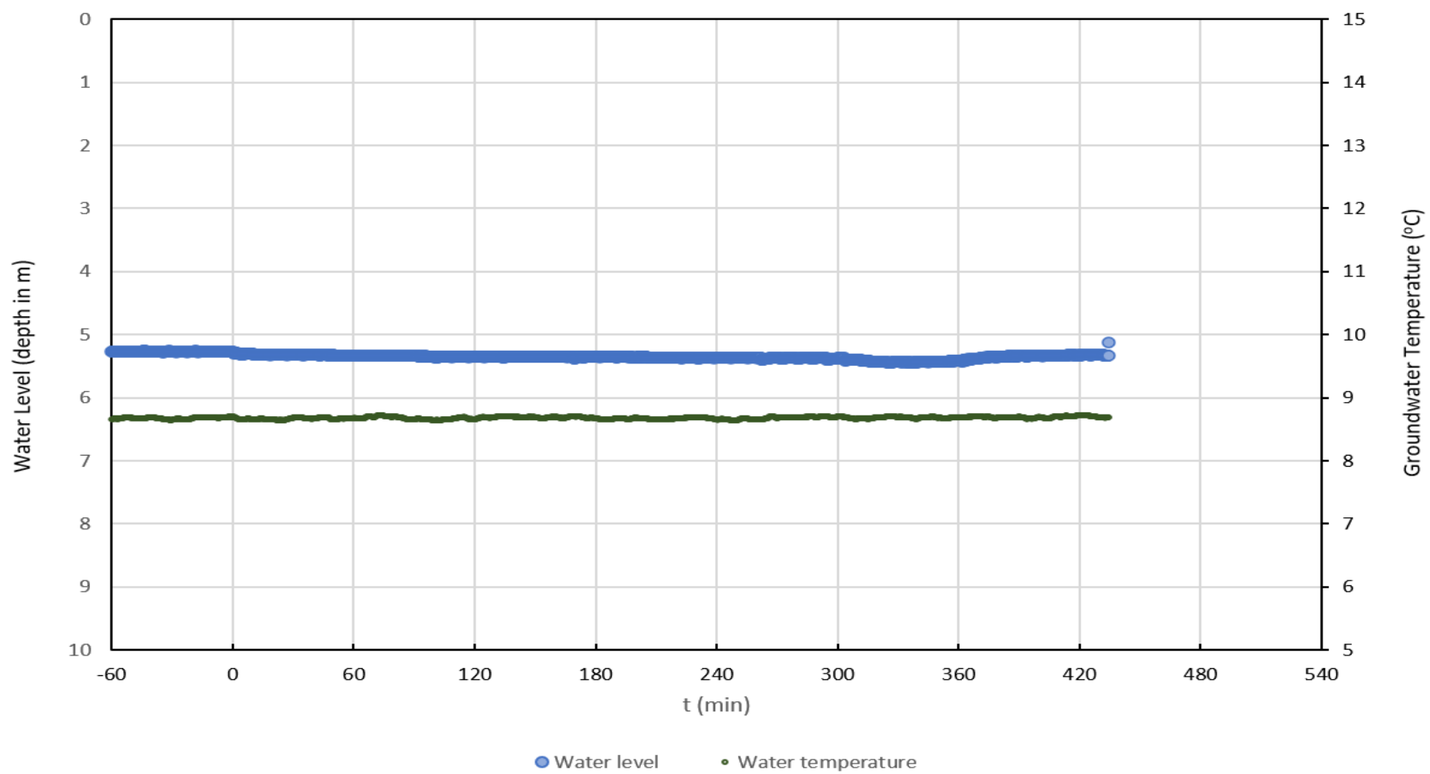
KEY PLAN:

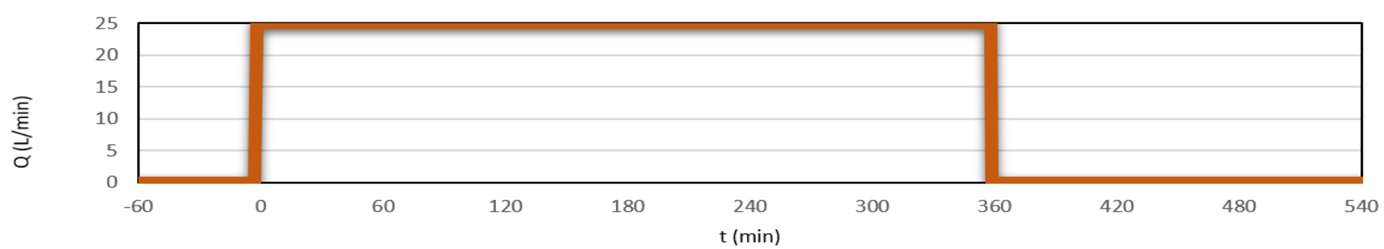
PROJECT 26-6001A:

HYDROGEOLOGY AND TERRAIN EVALUATION
PROPOSED RURAL RESIDENTIAL LOTS
3024 OLD BEVERLY ROAD

FIGURE B-4:

WELL HYDROGRAPH – TW-2 (WWR# 6808737)



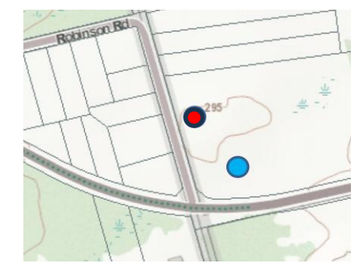


GREER GALLOWAY
a division of Jp2g Consultants Inc.

NOTES:

1) Test completed June 4, 2026
2) On-site pressure and temperature data collected using a Solinst Model 3001 datalogging transducer using 10 s intervals
3) Water level data is not corrected for fluctuations in barometric pressure

KEY PLAN:

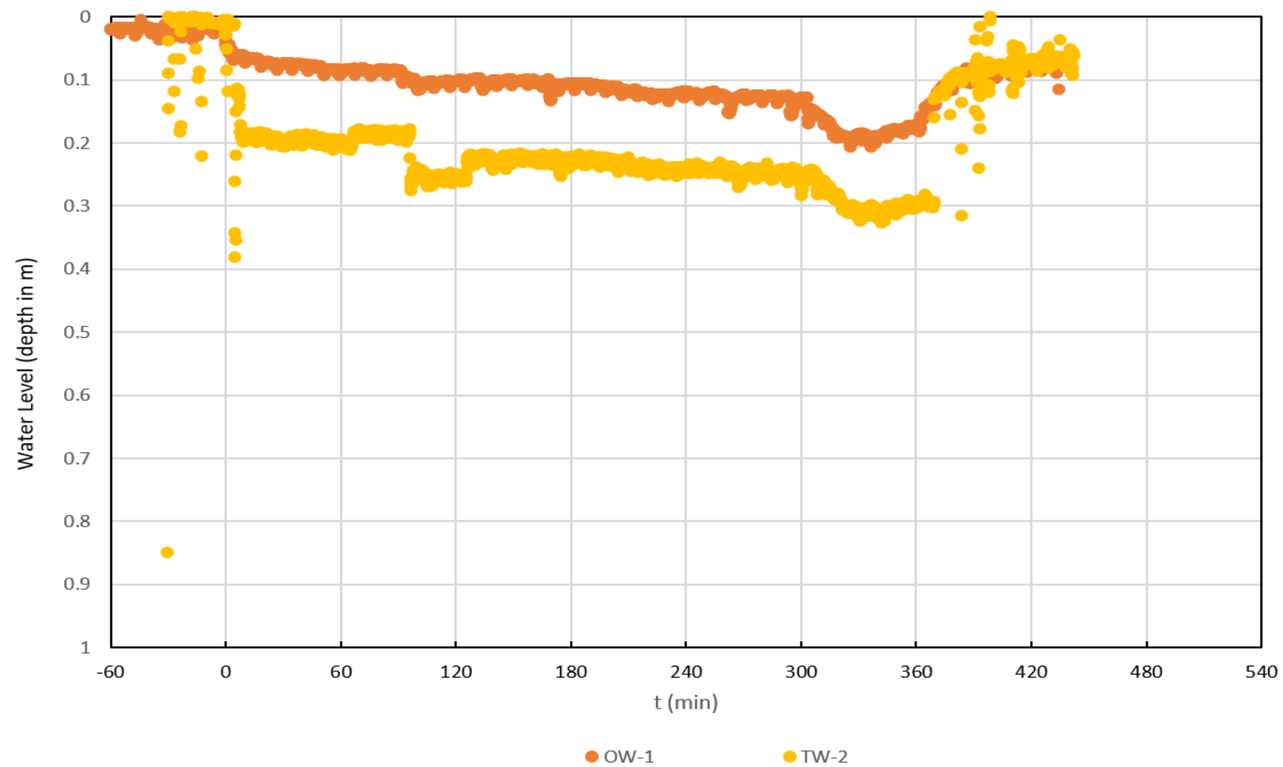


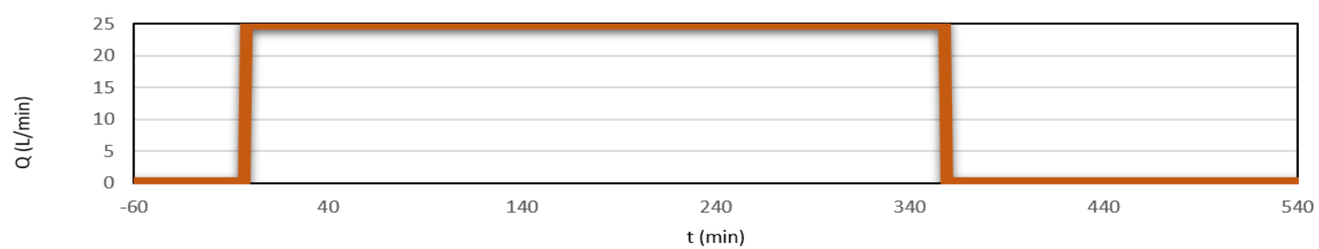
PROJECT 26-6001A:

HYDROGEOLOGY AND TERRAIN EVALUATION
PROPOSED RURAL RESIDENTIAL LOTS
3024 OLD BEVERLY ROAD

FIGURE B-5:

WELL HYDROGRAPH – OW-1 (A417126)





GREER GALLOWAY
a division of Jp2g Consultants Inc.

NOTES:

1) Test completed June 4, 2026
2) On-site pressure and temperature data collected using a Solinst Model 3001 datalogging transducer using 10 s intervals
3) Water level data is not corrected for fluctuations in barometric pressure

PROJECT 26-6001A:

HYDROGEOLOGY AND TERRAIN EVALUATION
PROPOSED RURAL RESIDENTIAL LOTS
3024 OLD BEVERLY ROAD

FIGURE B-6:

ΔH OVERLAY

Appendix C – Laboratory Certificates of Analysis

CERTIFICATE OF ANALYSIS

Final Report

C.O.C.: G

REPORT No: 26-015647 - Rev. 0

Report To:
Greer Galloway, a division of Jp2g Consultants Inc.
1620 Wallbridge-Loyalist Road, RR #5
Belleville, ON K8N 4Z5

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

Attention: Charles Mitz

DATE RECEIVED: 2026-May-29
DATE REPORTED: 2026-Jun-08
SAMPLE MATRIX: Ground Water

CUSTOMER PROJECT: Old Beverly Rd
P.O. NUMBER: PO#26-6001A

Analyses	Qty	Site Analyzed	Authorized	Date Analyzed	Lab Method	Reference Method
Anions (Liquid)	1	OTTAWA	LMACGREGOR	2026-Jun-03	A-IC-01	SM 4110B
Colour (Liquid)	1	OTTAWA	STAILLON	2026-Jun-02	A-COL-01	SM 2120C
Cond/pH/Alk Auto (Liquid)	1	OTTAWA	SBOUDREAU	2026-Jun-01	COND-02/PH-02/ALK-02	SM 2510B/4500H/2320B
Coliforms - DC Media (Liquid)	1	KINGSTON	BBURTCH	2026-May-29	ECTC-001	MECP E3407
DOC (Liquid)	1	OTTAWA	MMACMILLAN	2026-Jun-02	C-OC-01	EPA 415.2
Ion Balance (Calc)	1	OTTAWA	TPRICE		CP-028	MECP E3196
ICP/OES (Liquid)	1	OTTAWA	NSAUNDERS	2026-Jun-02	D-ICP-01	SM 3120B
Ammonia (Liquid)	1	KINGSTON	DCASSIDY	2026-Jun-05	NH3-001	SM 4500NH3
Turbidity (Liquid)	1	OTTAWA	AGRAF	2026-Jun-01	A-TURB-01	SM 2130B

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

Michelle Dubien
Data Specialist

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

		Client I.D.	TW1
		Sample I.D.	26-015647-1
		Date Collected	2026-05-28
Parameter	Units	R.L.	-
Total Coliform (DC Media)	CFU/100mL	1	0
E coli (DC Media)	CFU/100mL	1	0
Background (DC Media)	CFU/100mL	1	5
Alkalinity(CaCO3) to pH4.5	mg/L	5	248
TDS (Calc. from Cond.) (Calculated)	mg/L	3	365
Conductivity @25°C	uS/cm	1	703
pH @25°C	pH units	-	8.07
Colour	TCU	2	<2
Turbidity	NTU	0.1	12.0
Fluoride	mg/L	0.1	<0.1
Chloride	mg/L	0.5	40.4
Nitrate (N)	mg/L	0.05	<0.05
Nitrite (N)	mg/L	0.05	<0.05
Sulphate	mg/L	1	66
Ammonia (N)-Total (NH3+NH4)	mg/L	0.05	<0.05
Dissolved Organic Carbon	mg/L	0.8	2.8
Hardness (as CaCO3)	mg/L	0.02	345
Calcium	mg/L	0.02	73.4
Iron	mg/L	0.005	0.906
Magnesium	mg/L	0.02	39.2
Manganese	mg/L	0.001	0.013

Michelle Dubien
Data Specialist

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		Client I.D.	TW1
		Sample I.D.	26-015647-1
		Date Collected	2026-05-28
Parameter	Units	R.L.	-
Potassium	mg/L	0.1	1.2
Sodium	mg/L	0.2	11.1
Anion Sum (Calculated)	meq/L	-	7.48
Cation Sum (Calculated)	meq/L	-	7.46
% Difference (Calculated)	%	-	0.172
TDS (Ion Sum Calc) (Calculated)	mg/L	1	382
Conductivity Calc	µmho/cm	-	700

Michelle Dubien
Data Specialist

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

CERTIFICATE OF ANALYSIS

Final Report

C.O.C.: G

REPORT No: 26-016595 - Rev. 0

Report To:
Greer Galloway, a division of Jp2g Consultants Inc.
1620 Wallbridge-Loyalist Road, RR #5
Belleville, ON K8N 4Z5

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

Attention: Charles Mitz

DATE RECEIVED: 2026-Jun-05
DATE REPORTED: 2026-Jun-16
SAMPLE MATRIX: Ground Water

CUSTOMER PROJECT: Old Beverly Rd
P.O. NUMBER: PO#26-6001A

Analyses	Qty	Site Analyzed	Authorized	Date Analyzed	Lab Method	Reference Method
Anions (Liquid)	1	OTTAWA	PCURIEL	2026-Jun-08	A-IC-01	SM 4110B
Colour (Liquid)	1	OTTAWA	STAILLON	2026-Jun-09	A-COL-01	SM 2120C
Cond/pH/Alk Auto (Liquid)	1	OTTAWA	SBOUDREAU	2026-Jun-08	COND-02/PH-02/ALK-02	SM 2510B/4500H/2320B
Coliforms - DC Media (Liquid)	1	KINGSTON	BBURTCH	2026-Jun-05	ECTC-001	MECP E3407
DOC (Liquid)	1	OTTAWA	MMACMILLAN	2026-Jun-13	C-OC-01	EPA 415.2
Fecal Coliforms (Liquid)	1	KINGSTON	BBURTCH	2026-Jun-05	FC-001	SM 9222D
Ion Balance (Calc)	1	OTTAWA	ASCHNEIDER		CP-028	MECP E3196
ICP/OES (Liquid)	1	OTTAWA	SGORMAN	2026-Jun-09	D-ICP-01	SM 3120B
Ammonia (Liquid)	1	KINGSTON	BHANNAH	2026-Jun-15	NH3-001	SM 4500NH3
Turbidity (Liquid)	1	OTTAWA	AGRAF	2026-Jun-08	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

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		Client I.D.	TW2
		Sample I.D.	26-016595-1
		Date Collected	2026-06-04
Parameter	Units	R.L.	-
Total Coliform (DC Media)	CFU/100mL	1	0
E coli (DC Media)	CFU/100mL	1	0
Background (DC Media)	CFU/100mL	1	26
Fecal Coliform	CFU/100mL	1	0
Alkalinity(CaCO3) to pH4.5	mg/L	5	244
TDS (Calc. from Cond.) (Calculated)	mg/L	3	512
Conductivity @25°C	uS/cm	1	962
pH @25°C	pH units	-	7.99
Colour	TCU	2	<2
Turbidity	NTU	0.1	5.7
Fluoride	mg/L	0.1	<0.1
Chloride	mg/L	0.5	120
Nitrate (N)	mg/L	0.05	<0.05
Nitrite (N)	mg/L	0.05	<0.05
Sulphate	mg/L	1	78
Ammonia (N)-Total (NH3+NH4)	mg/L	0.05	<0.05
Dissolved Organic Carbon	mg/L	0.8	2.8
Hardness (as CaCO3)	mg/L	0.02	426
Calcium	mg/L	0.02	96.5
Iron	mg/L	0.005	0.619
Magnesium	mg/L	0.02	45.0

Michelle Dubien
Data Specialist

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

		Client I.D.	TW2
		Sample I.D.	26-016595-1
		Date Collected	2026-06-04
Parameter	Units	R.L.	-
Manganese	mg/L	0.001	0.010
Potassium	mg/L	0.1	1.3
Sodium	mg/L	0.2	38.0
Anion Sum (Calculated)	meq/L	-	9.88
Cation Sum (Calculated)	meq/L	-	10.2
% Difference (Calculated)	%	-	1.75
TDS (Ion Sum Calc) (Calculated)	mg/L	1	526
Conductivity Calc	µmho/cm	-	972

Michelle Dubien
Data Specialist

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