

August 24, 2021
PH4034-LET.01-REV.02

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Caivan (Richmond North) Communities

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Geotechnical Engineering
Environmental Engineering
Hydrogeology
Geological Engineering
Materials Testing
Building Science

Attention: Mr. Zeyad Hassan

www.patersongroup.ca

**Subject: Groundwater Impact Assessment
Proposed Residential Development
6305 Ottawa Street West - Richmond**

Dear Sir,

Paterson Group (Paterson) was commissioned by Caivan (Richmond North) Communities to complete a groundwater impact assessment for the proposed residential development to be located at 6305 Ottawa Street West in conjunction with the existing Fox Run Development in the Township of Richmond in the City of Ottawa, Ontario (Refer to Drawing PH4034 -1 - Site Plan attached to the current report).

The following report has been prepared specifically and solely for the aforementioned project which is described herein. It contains a hydrogeological review and assessments pertaining to the proposed works as they are understood at the time of writing this report.

The first versions of this report, PH4034-LET.01 dated July 10, 2020 and PH4034-LET.01-REV.01 dated January 22, 2021, was submitted to the City of Ottawa (City) as part of a Draft Plan of Subdivision Application. The City comments in regards to the first version of this report were received on December 8, 2020 with file number D07-16-20-0016 and D02-02-20-0053, with the second round of comments dated May 31, 2021. The report has been updated with the most recent geotechnical information completed subsequent to the initial report submission and addressed the City comments.

1.0 Proposed Development

The proposed residential development will consist of detached residential dwellings based on available conceptual plans. Access lanes, associated parking and landscaped areas are also anticipated for the development. It is understood that the site will be serviced by municipal servicing.

2.0 Background Information

Two field programs which occurred on the subject property were relevant to this study. One was a portion of the field program for the hydrogeological investigation which was carried out by Golder Associates Ltd. (Golder) in April 2010, and the other was the field program which occurred as part of the geotechnical investigation carried out by Golder in June 2020. In April of 2010, a total of 1 borehole was completed within the subject site and is a subset of a larger study area. The report produced from this fieldwork is titled Technical Memorandum: Proposed Mattamy Homes Development, Richmond (Ottawa), Ontario, dated July 2010 (Golder Report No. 08-1122-0078). In June of 2020, an additional 12 boreholes were completed within the subject site as part of a site specific geotechnical investigation completed by Golder titled Geotechnical Report: Laffin Parcel dated July 23, 2020 (Golder Report No. 20144864-3000-02). The approximate borehole locations are shown on the attached drawing PH4034-3 titled Test Hole Location Plan, attached. The boreholes were advanced to a maximum depth of 6.3 m below ground surface (bgs).

The review is based on the functional servicing information completed by David Schaeffer Engineering Ltd. (DSEL). The information is considered preliminary with detailed design to be completed at a later date.

The attached drawing titled Caivan Richmond Laffin - Grading Plan - Drawing 1B by DSEL dated June 2020, shows the grade raise within the roadways is anticipated to generally be in the order of 0.3 to 1.7 m with the majority of the grade raise being between 1.0 to 1.5 m.

The proposed servicing is anticipated to extend to approximately 3.5 m below the existing ground surface (bgs) at MH524A and up to 1.5 m into the inferred bedrock. This is the deepest proposed excavation for the subject site. The southeast portion of the site is expected to have a servicing depth less than 3 m bgs. It is assumed that a maximum servicing depth of 3.5 m bgs would provide a conservative review and should be re-examined should the detailed design differ from this analysis. A combination of blasting, line drilling, and/or hoe ramming will may be used for bedrock removal based upon site conditions encountered at the time of excavation.

3.0 Site Conditions

Physical Setting

The subject site consists of undeveloped, agricultural land as well as a forested area within the northeast portion of the site. The site is relatively flat and at a slightly lower elevation than the surrounding roadways, and slopes down from the south east to the north west. An unnamed tributary has been identified transecting the northern portion of the subject site and flows in a northeast direction towards the northeast corner of the property where it drains in to the Moore Branch Drain. The site is bordered to the northwest by agricultural lands, to the northeast by residential dwellings followed by Queen Charlotte St, to the southeast by Ottawa Street West followed by agricultural lands and to the southwest by agricultural lands.

According to available mapping, the subject site is located in the Ottawa Valley Clay Plains physiographic region.

3.1 Geology

Surficial Geology

Overburden soils identified during the geotechnical field investigation by others typically consisted of topsoil overlying a loose to compact brown and grey sandy silt to silty sand layer overlying a glacial till. Two boreholes in the centre of the site had a sandy silty clay layer overlying the glacial till deposit. The glacial till is comprised of a grey sandy silt matrix with varying amounts of gravel and cobbles and trace clay. Refusal was encountered in most borehole locations on inferred bedrock at depths ranging from 1.8 to 4.3 m bgs. Bedrock was cored in three boreholes, with confirmed bedrock depths varying between 2.7 and 3.1 m bgs.

Specific details of the soil profile at each test hole location are presented in the Borehole Records by others attached to the current report.

Based on surficial mapping published by the Ontario Geological Survey, the subject site is located in an area which consists of glaciomarine and marine deposits with silt and clay.

Bedrock

Based on available geological mapping, the subject site is located in an area where bedrock consists of dolostone of the Oxford Formation with an overburden drift thickness of approximately 2 to 5 m. According to the borehole logs, bedrock consists of a

interbedded sandstone and dolostone in MW10-6, and a limestone bedrock in BH20-307 and BH20-309. Bedrock was cored in three boreholes, with confirmed bedrock depths varying between 2.7 and 3.1 m bgs. According to the Geotechnical report completed by others, the Rock Quality Designations (RQD) of the bedrock, where recorded, varied between 70-85%. It should be noted that refusal to augering was encountered in most boreholes, with refusal occurring between the depths of 1.8 and 4.3 m bgs. Two boreholes did not encounter auger refusal, and extended to depths of 5.2 and 6.1 m bgs.

Karst Features

The term “karst” refers to a geologic formation characterized by the dissolution of carbonate bedrock, such as limestone or dolostone. In order for karstification to occur, precipitation must be allowed to infiltrate the top of the bedrock to dissolutionally enlarge previously existing joints and bedding planes. Based on karst mapping prepared by the Ontario Geological Survey, there is no potential, inferred or known karst within the subject site.

3.2 Hydrogeology

Existing Aquifer Systems

Aquifer systems may be defined as a geological media, either overburden soils or fractured bedrock, which permit the movement of groundwater under hydraulic gradients. Although groundwater has been observed within the brown to grey sandy silt to silty sand layer and glacial till layer at the subject site, the composition and shallow nature of materials does not allow for the development of significant water supply wells. Water supply wells in the vicinity are accessing the underlying bedrock aquifers.

Bedrock aquifer mapping, provided by Natural Resources Canada Urban Geology of the National Capital Region mapping, was reviewed as part of this assessment. The March and Oxford formations were identified as the water supply aquifer systems in the vicinity of the study area, with the domestic wells extending into the bedrock aquifer.

Groundwater Levels

Groundwater was observed/inferred by others in the open hole excavations completed during the geotechnical field investigations as well as measured in two monitoring wells installed at BH20-304 and BH20-310. A groundwater elevation was not available for MW10-6. Based on a review of the water well records, groundwater is also present in the bedrock at depth.

Groundwater levels within the overburden at the subject site were identified between 2.27 to 3.55 m bgs following the completion of the geotechnical field investigations. Due to the permeability of the overburden, groundwater levels are also influenced by precipitation events and seasonal variations. Based on the water levels recorded in the wells, 2.27 m bgs in BH20-310 and 2.46 m bgs in BH 20-304, the long-term groundwater level at the subject site is expected between 2 to 3 m bgs.

Groundwater infiltration into the excavations through the overburden materials is expected to be low to moderate during construction and dewatering may be required. It is anticipated that pumping from open sumps will be sufficient to control groundwater influx through the sides of the excavations.

Hydraulic Gradients

Vertical hydraulic gradients were not measured at the subject site as the previous studies completed did not warrant the installation of sufficient monitoring wells or sufficient piezometers. Shallow groundwater flow in the vicinity of the subject site is expected to reflect local topography. Regional groundwater flow in the overburden and bedrock is considered to be in a south easterly direction, towards the Jock River.

Hydraulic Conductivity

The hydraulic conductivity values were conservatively estimated based upon previous experience at similar sites in the area, and typical published values for sandy silt, glacial till and dolostone bedrock. These values range from 1×10^{-5} to 1×10^{-6} m/sec for sandy silt and is dependant on the ratio of sand to silt within the material. The hydraulic conductivity value for glacial till varies from 1×10^{-6} to 1×10^{-10} m/sec and is dependant on the variability of the deposit. The values for dolostone bedrock range from 1×10^{-6} to 1×10^{-10} m/sec and is dependant on the quality of the bedrock.

Groundwater Recharge and Discharge

In general, groundwater will follow the path of least resistance from areas of higher hydraulic head to areas of lower hydraulic head. While upward and downward hydraulic gradients may be indicative of discharge and recharge respectively, other factors must be considered.

Based on the hydraulic conductivity estimates obtained from published literature, the silty sand to sandy silt and glacial till overburden is generally considered to act as an unconfined layer. It is our interpretation that groundwater will generally flow both vertically towards the underlying bedrock and laterally through the sandy silt and glacial till material. As such, the volume of recharge occurring within the site boundaries is expected to be low to moderate. With regards to discharge zones, the topographical conditions are not

suitable for discharge to be occurring at the subject site.

4.0 Potential Impacts

4.1 Adverse Effects on Adjacent Structures

The overburden at the subject site generally consists of sandy silt to silty sand overlying a glacial till with a sandy silt matrix. Inferred bedrock was encountered underlying the glacial till between 1.8 to 4.3 m bgs. The majority of the expected groundwater infiltration will be encountered within the sandy silt to silty sand, glacial till and/or bedrock. The potential dewatering volumes due to groundwater infiltration into excavation footprints are anticipated to be low to moderate dependant on location across the site and majority composition of the materials at a given location. The structures in the surrounding area typically consist of low-rise residential buildings and are expected to be founded on sandy silt, glacial till or bedrock. The compressibility of the sandy silt to silty sand, glacial till and bedrock in the area as a result of dewatering is anticipated to be minimal. Furthermore, dewatering is expected to be short term in duration, given the nature of the proposed development. As such, any effects related to ground surface settlement due to the water taking activities are anticipated to be negligible.

4.2 Adverse Effects on Neighbouring Water Wells

A search of the Ontario Water Well Records online mapping database indicates there are 144 water wells records within 500 m of the site as depicted on Drawing PH4034 - 2 - MECP Water Well Location Plan attached to the current report. The majority of the wells located in the vicinity were noted to be primarily domestic wells accessing the Oxford Formation bedrock aquifer. The domestic wells accessing the bedrock aquifer ranged from 10.7 to 123.4 m bgs, with the majority of the wells varying between 15 to 30 m bgs. The depth to bedrock varied from bedrock at surface to bedrock at 10.4 m bgs. Groundwater was encountered at depths varying from 7.3 m to 68.6 m bgs. All WWR which contained potable water supply wells were drilled wells with steel casing. In the 500 m radius of the site, 3 WWR were well extensions, 3 WWR were well abandonment records, and 1 WWR was for a PVC monitoring well. A number of the WWR were erroneously placed. The majority of the domestic wells are located to the east of the subject site, and are believed to be downgradient from the subject site. It should be noted that a communal well has been constructed approximately 300 m to the northwest of the subject site and will be servicing the subject site. Based on previous studies by others and well records, it is understood the communal well has been screened in the Nepean Formation between 70 and 123 m bgs, significantly below the proposed excavation depths of the proposed development.

A series of calculations were carried out on theoretical radii of influence for a servicing trench excavation ranging from 2.0 to 3.5 m deep and withdrawing water from the upper 2.0 to 3.0 m of the saturated zone. These calculations were completed based on Sichardt (1992) using the equation:

$$R = r_e + 3000 \cdot \Delta h (k^{0.5})$$

- R = radius of influence (m)
- r_e = equivalent radius of excavation (m)
- Δh = thickness of drawdown within the aquifer (m)
- k = hydraulic conductivity (m/sec)

For the purposes of completing the calculations, the following assumptions were made:

- $r_e = 9.55$ m
- $k = 1 \times 10^{-5}$ m/sec, based upon our experience in the area and published values
- $\Delta h = 0.5$ to 1.5 m, to review potential minimum/maximum variable conditions.

Using the above equation and assumptions, a radius of influence of approximately 0 to 14 m will develop as a steady state condition, extending from the edge of the excavation.

Given the hydrogeological characteristics of the subject site, potential depths of excavation related to the development and the water supply aquifer systems in the vicinity of the study area, a baseline subdivision water sampling program is recommended to be completed prior to commencing construction on site.

The premise of the program is to obtain groundwater quality information from the water supply wells in the vicinity of the proposed development prior to the project commencing. This ensures that all parties involved (developer, homeowner and City of Ottawa) are protected should any concerns arise during or after construction.

Based on the proximity of existing wells and groundwater flow direction, it is recommended that lots located within 50 m from the subject site be reviewed for inclusion in the well sampling program. The available WWRs within 500 m of the subject site have been attached to this report. All of the available WWRs for the proposed lots subject to the well sampling program have steel casing extending to the surface of or into the bedrock and range between 13 and 35 m depth total depth below ground surface. The proposed lots have also been illustrated in Figure 1 - Rev1 - Proposed Baseline Sampling Review Area attached to the current report.

It should be noted that the lots which have been selected to participate in the baseline sampling program have been chosen based on scientific merit and public perspective. Only a small number of lots which have been selected were chosen on scientific merit, with the rest being chosen in an effort to be a good neighbour. The area has been discussed with the City of Ottawa Risk Assessment Officer and the zone with Figure 1a (attached) has been agreed upon for the baseline sampling area. Depth of excavation, bedrock removal methods and volumes, proximity to servicing, groundwater depth and available water well construction information have all been considered in order to determine the extent of the baseline sampling program.

The homeowners of the aforementioned properties will be invited to participate in the baseline sampling program by attempting two visits. In instances where the homeowner is not present at the time of the initial daytime visit, a contact letter outlining the proposed sampling program will be left at the property for future sampling. The following visit will be completed in the evening with a second contact letter if the homeowner is still not available. Interested homeowners will be interviewed for the purpose of obtaining baseline water quality and quantity information followed by a raw water sample.

The parameters that will be analysed as part of the sampling program will consist of the "Subdivision Water Quality Package" offered by Paracel Laboratories Ltd. This package includes; alkalinity, bacteria, colour, conductivity, pH, hardness, IC anions, NH₃, TKN, DOC, phenols, sulphide, metals, Tannin & Lignin, TDS and turbidity.

A draft copy of the contact letter has been submitted to the City of Ottawa for review and approval prior to commencing the baseline water quality sampling program outlined above. A City contact will be provided in the letter for any discussions/questions the homeowner may have for the City.

Well Head Protection Area

An existing municipal well is located approximately 300 m northwest of the subject site. Based on the Source Protection Information Atlas mapping provided by the MECP, the subject site is located within a Wellhead Protection Area - B (WHPA) and is not considered a significant groundwater recharge area. However, it is classified as a highly vulnerable aquifer, with a vulnerability score of 6. As a result, certain construction activities may be considered a significant drinking water threat and an official Source Protection Screening from the City's Risk Management Official is required to confirm applicable policies. The locations of the WHPAs within the subject area are illustrated in Figure 2 - WHPA Plan attached to the current report.

Given that the subject site is located within a WHPA, handling as well as storing chemical products with dense non aqueous phase liquids (DNAPLs) is considered a threat to the aquifer and is prohibited at the subject site. It is recommended that equipment and vehicle

maintenance be conducted beyond WHPA -C, this includes any use of certain degreasers, paints and cleaning agents.

4.3 Soil, Surface Water and Groundwater

A search of the MECP Brownfields Environmental Site Registry was conducted as part of the assessment of the site, neighbouring properties and the general area. No records of brownfields were found within 500 m of the subject site.

It is anticipated that the material on site will be disposed of or re-used as per the MECP policy, *On-site and Excess Soil Management* dated December, 2019.

With respect to nearby surface water bodies, the unnamed tributary within the subject site will be backfilled as part of the proposed development with flows redirected in accordance with the required designs / approvals. The Moore Branch Drain located in the northeast corner of the subject site flows in a northwest direction where it drains into the Van Gaal Drain/Arbuckle Drain and eventually into the Jock River located approximately 650 m east of the Moore Branch Drain.

It is expected that a multi-barrier approach (such as hay bales, geosocks, silt fencing, etc.) to a non-frozen, well vegetated area will be utilized in order to promote re-infiltration prior to reaching the adjacent surface water features noted above. In addition, the permeable surface soils, shallow bedrock and relatively flat topography at the subject site will promote surface water re-infiltration and minimize runoff towards the adjacent water bodies. As such, adverse effects to surface water features resulting from dewatering activities at the subject site are expected to be negligible.

The groundwater that is pumped from site excavations must be managed in an appropriate manner. The contractor will be required to implement a water management program to dispose of the pumped water.

4.4 Adjacent Permits to Take Water

A search of the MECP Permit to Take Water database provided 2 active PTTW within 500 m of the subject site. PTTW 8563-ABNQ5G is registered to Richmond Village Development Corporation and is located approximately 350 m northwest of the subject site. The above noted permit contains 3 sources for construction dewatering with a total taking of 12,708,000 L/day. At the time of writing this report, it is understood that all site servicing as well as the construction of the SWMP and pump station has been completed. PTTW 3821-AF9PUV is registered to the City of Ottawa and is located approximately 300 m northwest of the subject site. The above noted permit contains contains 2 sources

for municipal water with a total taking of 4,639,680 L/day. Based on the well logs provided for the municipal wells, the wells have been screened in the Nepean Formation sandstone aquifer, and is well below the maximum potential depth of the excavations at the subject site.

The locations of the existing permits places them outside the radius of influence of the subject site and it is not anticipated that there will be any negative effects related to potential takings.

A search of the MECP Environmental Activity and Sector Registry (EASR) database did not provided any water taking permits within the subject area.

4.5 Existing Servicing

All existing private wells or monitoring wells at the subject site, that are not being maintained according to the regulations, should be properly decommissioned by a licensed well contractor as per O.Reg. 903 prior to construction. Paterson is currently aware of two monitoring well installations (BH20-304 and BH20-310) that should be decommissioned when they are no longer being maintained in accordance with regulations.

5.0 Recommendations

The following aspects of the program will be reviewed and should be performed prior to commencing construction for the proposed residential development:

- ❑ Two monitoring wells (BH20-304 and BH20-310) should be decommissioned when no longer to be maintained in accordance with regulations. If any other existing wells are found within the proposed residential development, that are not being maintained in accordance with the regulations, they should be properly decommissioned as per *O.Reg. 903*.
- ❑ The detailed design should be reviewed once complete to determine the extent of the potential servicing excavations. The assumed excavation depth is expected to be a conservative maximum value of 3.5 m below existing ground surface.
- ❑ A baseline water sampling program is recommended prior to commencing construction on site. The sample area has been agreed upon with the City of Ottawa Risk Assessment Officer and is noted in Figure 1a (attached). Based on the proximity of existing wells and groundwater flow direction, it will be attempted to sample all homes within the subject sampling area.
- ❑ Prior to and during site development, it is recommended that construction best management practices with respect to fuels and chemical handling, spill prevention, and erosion and sediment control be followed.
- ❑ An official Source Protection Screening from the City's Risk Management Official is required to confirm applicable policies.
- ❑ For any water taking of greater than 50,000 L/day, either an Environmental Activity and Sector Registration (EASR) or a Permit To Take Water (PTTW) is required from the MECP, dependent on dewatering requirements.

6.0 Statement of Limitations

The recommendations provided in this report are in accordance with our present understanding of the project.

A hydrogeological review of this nature is a limited sampling of a site. The recommendations are based on information gathered at the specific test locations and can only be extrapolated to an undefined limited area around the test locations. Should any conditions at the site be encountered which differ from those at the test locations, we request notification immediately in order to permit reassessment of our recommendations.

The present report applies only to the project described in this document. Use of this report for purposes other than those described herein or by person(s) other than Caivan (Richmond North) Communities or their agent(s) is not authorized without review by Paterson Group for the applicability of our recommendations to the altered use of the report.

Paterson Group Inc.



Erik Ardley, BSc. Geology



Michael Killam, P.Eng.

Attachments:

- Figure 1 - Rev1a - Proposed Baseline Sampling Review Area
- Figure 2 - WHPA Plan
- Borehole Records (by Others)
- Drawing PH4034-1 - Site Plan
- Drawing PH4034-2 - MECP Well Location Plan
- Drawing PH4034-2 - Test Hole Location Plan
- MECP WWR (within 500 m of subject site)
- Dupuit-Forchheimer Equations
- DSEL Drawing - Caivan Richmond Laffin - Grading Plan - dated June 2020
- DSEL Drawing - Caivan Richmond Laffin - Sanitary Servicing Plan - dated June 2020
- DSEL Drawing - Caivan Richmond Laffin - Storm Sewer Servicing Plan - dated June 2020
- DSEL Drawing - Caivan Richmond Laffin - Storm and San Servicing Profiles - dated June 2020





FIGURE 2

WHPA Map

PROJECT: 08-1122-0078

RECORD OF DRILLHOLE: 10-6

SHEET 2 OF 2

LOCATION: See Site Plan

DRILLING DATE: Apr. 30, 2010

DATUM:

INCLINATION: -90° AZIMUTH: ---

DRILL RIG: CME 55

DRILLING CONTRACTOR: Marathon Drilling

DEPTH SCALE METRES	DRILLING RECORD	DESCRIPTION	SYMBOLIC LOG	ELEV. DEPTH (m)	RUN No.	PENETRATION RATE (m/min)	FLUSH	COLOUR % RETURN	FR/FX-FRACTURE F-FAULT		SM-SMOOTH		FL-FLEXURED		BC-BROKEN CORE		NOTES WATER LEVELS INSTRUMENTATION		
									CL-CLEAVAGE		J-JOINT		R-ROUGH		UE-UNEVEN			MB-MECH. BREAK	
									SH-SHEAR		P-POLISHED		ST-STEPPED		W-WAVY			B-BEDDING	
									VN-VEIN		S-SLICKENSIDED		PL-PLANAR		C-CURVED				
RECOVERY		R.Q.D. %	FRACT INDEX PER 0.3	DISCONTINUITY DATA		HYDRAULIC CONDUCTIVITY			DIAMETRAL INDEX (MPa)										
TOTAL CORE %	SOLID CORE %			TYPE AND SURFACE DESCRIPTION		K ₁ cm/sec	K ₂	K ₃											
		BEDROCK SURFACE		92.60															
	Relay Drill NQ Core	Thinly to medium bedded light grey interbedded SANDSTONE and DOLOSTONE BEDROCK		3.07														Bentonite Seal	
4					1													Silica Sand	
5		End of Borehole		90.49														32mm Diam. PVC #10 Slot Screen 'A'	
				5.18															
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			

MIS-RCK 001 0811220078-9500 (ROCK) GPJ GAL-MISS GDT 5/19/10 JM

DEPTH SCALE
1 : 50



LOGGED: J.D.
CHECKED: *[Signature]*

PROJECT: 20144864

RECORD OF BOREHOLE: 20-301

SHEET 1 OF 1

LOCATION: N 5004877.5 ; E 356671.0

BORING DATE: June 23, 2020

DATUM: Geodetic

SAMPLER HAMMER, 64kg; DROP, 760mm

PENETRATION TEST HAMMER, 64kg; DROP, 760mm

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE		SAMPLES		DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m				HYDRAULIC CONDUCTIVITY, k, cm/s				ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION		
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	BLOWS/0.30m	SHEAR STRENGTH Cu, kPa				WATER CONTENT PERCENT					
								20	40	60	80	nat V. +	rem V. ⊕			Q - ●	U - ○
0	Power Auger 200 mm Diam. (Hollow Stem)	GROUND SURFACE		94.79													
		TOPSOIL - (SM) SILTY SAND; dark brown, contains organic matter; moist (ML) sandy SILT; grey brown; non-cohesive, moist, very loose to compact		0.00 0.11	1	SS	5										
1					2	SS	8										
2					3	SS	24										
		(SM) gravelly SILTY SAND; grey (GLACIAL TILL); non-cohesive, moist, compact		92.66 2.13 2.28													
3		End of Borehole Auger Refusal													Open borehole dry upon completion of drilling		
4																	
5																	
6																	
7																	
8																	
9																	
10																	

MIS-BHS 001 20144864.GPJ GAL-MIS.GDT 7/24/20 JM/JEM

DEPTH SCALE

1 : 50



LOGGED: KM

CHECKED: BB

PROJECT: 20144864

RECORD OF BOREHOLE: 20-302

SHEET 1 OF 1

LOCATION: N 5004929.5 ;E 356765.7

BORING DATE: June 23, 2020

DATUM: Geodetic

SAMPLER HAMMER, 64kg; DROP, 760mm

PENETRATION TEST HAMMER, 64kg; DROP, 760mm

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE		SAMPLES		DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m				HYDRAULIC CONDUCTIVITY, k, cm/s				ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION		
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	BLOWS/0.30m	SHEAR STRENGTH				WATER CONTENT PERCENT					
								20 40 60 80		10 ⁻⁶ 10 ⁻⁵ 10 ⁻⁴ 10 ⁻³		nat V. + Q - ●				rem V. ⊕ U - ○	
0		GROUND SURFACE		94.80													
		TOPSOIL - (SM) SILTY SAND; dark brown; moist		0.00													
		FILL - (SM) SILTY SAND; red brown; non-cohesive, moist, loose		0.11	1	SS	7										
		(ML) sandy SILT; grey brown; non-cohesive, moist, compact		94.04													
1	Power Auger 200 mm Diam. (Hollow Stem)			0.76	2	SS	23										
				92.51													
		(SM) gravelly SILTY SAND; grey (GLACIAL TILL); non-cohesive, moist, compact to dense		2.29	3	SS	30										
				92.03													
2				2.77	4	SS	35										
3		End of Borehole Auger Refusal															
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Open borehole dry upon completion of drilling

MIS-BHS 001 20144864.GPJ GAL-MIS.GDT 7/24/20 JM/JEM

DEPTH SCALE

1 : 50



LOGGED: KM

CHECKED: BB

PROJECT: 20144864

RECORD OF BOREHOLE: 20-303

SHEET 1 OF 1

LOCATION: N 5004993.5 ; E 356803.7

BORING DATE: June 23, 2020

DATUM: Geodetic

SAMPLER HAMMER, 64kg; DROP, 760mm

PENETRATION TEST HAMMER, 64kg; DROP, 760mm

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE		SAMPLES		DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m				HYDRAULIC CONDUCTIVITY, k, cm/s				ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION	
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	SHEAR STRENGTH Cu, kPa				WATER CONTENT PERCENT					
							20		40		60		80			10 ⁻⁶
0	Power Auger 200 mm Diam. (Hollow Stem)	GROUND SURFACE		94.78												
		TOPSOIL - (SM) SILTY SAND; dark brown, contains organic matter; moist		0.00												
		FILL - (SM) SILTY SAND; grey brown, mottled, contains organic matter; non-cohesive, moist, loose		0.11	1	SS	5									
1		(ML) sandy SILT, trace fines; grey brown; non-cohesive, moist, compact to very dense		94.17												
			0.61	2	SS	16										
			92.82	3	SS	57/ 0.28								MH		
2		End of Borehole Auger Refusal		1.96												
3																
4																
5																
6																
7																
8																
9																
10																

MIS-BHS 001 20144864.GPJ GAL-MIS.GDT 7/24/20 JM/JEM

DEPTH SCALE

1 : 50



LOGGED: KM

CHECKED: BB

PROJECT: 20144864

RECORD OF BOREHOLE: 20-305

SHEET 1 OF 1

LOCATION: N 5004849.3 ; E 356780.6

BORING DATE: June 23, 2020

DATUM: Geodetic

SAMPLER HAMMER, 64kg; DROP, 760mm

PENETRATION TEST HAMMER, 64kg; DROP, 760mm

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE		SAMPLES			DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m				HYDRAULIC CONDUCTIVITY, k, cm/s				ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION	
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	BLOWS/0.30m	SHEAR STRENGTH				WATER CONTENT PERCENT					
								20 40 60 80		nat V. + Q - rem V. ⊕ U - ○		10 ⁻⁶ 10 ⁻⁵ 10 ⁻⁴ 10 ⁻³		Wp ----- W ----- Wl			
0	Power Auger 200 mm Diam. (Hollow Stem)	GROUND SURFACE		94.92													
		TOPSOIL - (SM) SILTY SAND; dark brown, contains organic; moist	[Cross-hatched pattern]	0.00	1	SS	6										
		FILL - (SM) SILTY SAND; brown, mottled, contains organic matter; non-cohesive, moist, loose	[Cross-hatched pattern]	0.10													
1		(ML) sandy SILT, some fines; grey brown; non-cohesive, moist, compact to loose	[Dotted pattern]	0.76	2	SS	10								CHEM		
2					3	SS	9								MH		
3		(SM) gravelly SILTY SAND; grey (GLACIAL TILL); non-cohesive, moist, loose	[Dotted pattern]	2.29	4	SS	6										
3		End of Borehole Auger Refusal		3.07	5	SS	50/0.03										
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Open borehole dry upon completion

MIS-BHS 001 20144864.GPJ GAL-MIS.GDT 7/24/20 JMJ/JEM

DEPTH SCALE

1 : 50



LOGGED: KM

CHECKED: BB

PROJECT: 20144864

RECORD OF BOREHOLE: 20-306

SHEET 1 OF 1

LOCATION: N 5004723.1 ;E 356802.1

BORING DATE: June 24, 2020

DATUM: Geodetic

SAMPLER HAMMER, 64kg; DROP, 760mm

PENETRATION TEST HAMMER, 64kg; DROP, 760mm

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE		SAMPLES			DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m				HYDRAULIC CONDUCTIVITY, k, cm/s				ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION	
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	BLOWS/0.30m	SHEAR STRENGTH				WATER CONTENT PERCENT					
								Cu, kPa		nat V. rem V.		Q - U		Wp			Wi
0		GROUND SURFACE		94.99													
		FILL - (SM) SILTY SAND; grey brown; non-cohesive, moist, loose		0.00	1	SS	6										
1		(CL) sandy SILTY CLAY; grey brown, contains silty sand layers; cohesive, w~PL, stiff		0.61	2	SS	3										
2	Power Auger 200 mm Diam. (Hollow Stem)				3	SS	10										
					4	SS	7										
3		(ML) SILT, some sand; grey brown; non-cohesive, wet, compact		2.90	5	SS	14										
					6	SS	51										
4		(SM/ML) gravelly SAND and SILT; grey, with cobbles and boulders (GLACIAL TILL); non-cohesive, wet		3.66													
		End of Borehole Auger Refusal		4.26													
5																	
6																	
7																	
8																	
9																	
10																	

MH
MH
WL in open borehole at 3.55 m depth below ground surface upon completion of drilling

MIS-BHS 001 20144864.GPJ GAL-MIS.GDT 7/24/20 JM/JEM

DEPTH SCALE

1 : 50



LOGGED: DG

CHECKED: BB

PROJECT: 20144864

RECORD OF BOREHOLE: 20-307

SHEET 1 OF 1

LOCATION: N 5004759.0 ;E 356875.7

BORING DATE: June 24, 2020

DATUM: Geodetic

SAMPLER HAMMER, 64kg; DROP, 760mm

PENETRATION TEST HAMMER, 64kg; DROP, 760mm

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE		SAMPLES		DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m				HYDRAULIC CONDUCTIVITY, k, cm/s				ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION	
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	BLOWS/0.30m				WATER CONTENT PERCENT					
							SHEAR STRENGTH Cu, kPa		nat V. + rem V. ⊕ ⊙		10 ⁻⁶ 10 ⁻⁵ 10 ⁻⁴ 10 ⁻³		Wp			Wi
0		GROUND SURFACE		95.19 0.00												
	Power Auger 200 mm Diam. (Hollow Stem)	FILL - (SM) SILTY SAND; grey brown; non-cohesive, moist, loose			1	SS	5									
1		(CL) sandy SILTY CLAY; grey brown, contains silty sand layers; cohesive, w~PL, very stiff		94.43 0.76												
					2	SS	4									
2					3	SS	12									
					4	SS	55/ 0.23									
3	Rotary Drill NQ Core	Fresh, medium bedded, grey, medium to strong LIMESTONE BEDROCK		92.53 2.66												
4					5	RC	DD									
5		End of Borehole		90.88 4.31												
6																
7																
8																
9																
10																

MIS-BHS 001 20144864.GPJ GAL-MIS.GDT 7/24/20 JM/JEM

DEPTH SCALE

1 : 50



LOGGED: DG

CHECKED: BB

PROJECT: 20144864

RECORD OF BOREHOLE: 20-308

SHEET 1 OF 1

LOCATION: N 5004825.9 ;E 356907.6

BORING DATE: June 23, 2020

DATUM: Geodetic

SAMPLER HAMMER, 64kg; DROP, 760mm

PENETRATION TEST HAMMER, 64kg; DROP, 760mm

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE		SAMPLES			DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m				HYDRAULIC CONDUCTIVITY, k, cm/s				ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION	
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	BLOWS/0.30m	SHEAR STRENGTH				WATER CONTENT PERCENT					
								20 40 60 80		nat V. + Q - rem V. ⊕ U - ⊙		10 ⁻⁶ 10 ⁻⁵ 10 ⁻⁴ 10 ⁻³		Wp ----- W ----- Wl			
0	Power Auger 200 mm Diam. (Hollow Stem)	GROUND SURFACE		95.33													
		TOPSOIL/FILL - (SM) SILTY SAND; dark brown, contains organic matter; non-cohesive, moist		0.00	1	SS	6										
		(ML) SILT, some sand, trace gravel; grey; non-cohesive, moist, loose to compact		0.30													
1					2	SS	4										
2				3	SS	16										MH	
		(SM) gravelly SILTY SAND; grey, contains cobbles and boulders (GLACIAL TILL); non-cohesive, moist, very dense		2.13	4	SS	50/0.25										
		End of Borehole Auger Refusal		2.51													
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

MIS-BHS 001 20144864.GPJ GAL-MIS.GDT 7/24/20 JM/JEM

DEPTH SCALE

1 : 50



LOGGED: KM

CHECKED: BB

PROJECT: 20144864

RECORD OF BOREHOLE: 20-309

SHEET 1 OF 1

LOCATION: N 5004667.6 ; E 356880.1

BORING DATE: June 24, 2020

DATUM: Geodetic

SAMPLER HAMMER, 64kg; DROP, 760mm

PENETRATION TEST HAMMER, 64kg; DROP, 760mm

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE		SAMPLES		DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m				HYDRAULIC CONDUCTIVITY, k, cm/s				ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION		
		DESCRIPTION	STRAATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	BLOWS/0.30m	SHEAR STRENGTH				WATER CONTENT PERCENT					
								Cu, kPa		nat V. rem V.	+ ⊕ - ⊙	Q - U	Wp			W	Wi
0	Power Auger 200 mm Diam. (Hollow Stem)	GROUND SURFACE		95.28 0.00													
		TOPSOIL - (SM) SILTY SAND; dark brown, with rootlets; non-cohesive, moist				1	SS	8									
1		(ML) SILT, some sand; grey brown; non-cohesive, moist to wet, loose to compact		94.67 0.61													
2																	
3	Rotary Drill N.G. Core	Slightly weathered to fresh, medium bedded, grey, medium to strong LIMESTONE BEDROCK		92.19 3.09													
4																	
5																	
6																	
7		End of Borehole		88.96 6.32													
8																	
9																	
10																	

CHEM

▽

WL in open borehole at 2.50 m depth below ground surface upon completion of drilling

MIS-BHS 001 20144864.GPJ GAL-MIS.GDT 7/24/20 JMJ/JEM



PROJECT: 20144864

RECORD OF BOREHOLE: 20-310

SHEET 1 OF 1

LOCATION: N 5004599.5 ; E 356935.2

BORING DATE: June 24, 2020

DATUM: Geodetic

SAMPLER HAMMER, 64kg; DROP, 760mm

PENETRATION TEST HAMMER, 64kg; DROP, 760mm

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE		SAMPLES			DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m				HYDRAULIC CONDUCTIVITY, k, cm/s				ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION	
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	BLOWS/0.30m	SHEAR STRENGTH				WATER CONTENT PERCENT					
								Cu, kPa		nat V. rem V.	+ ⊕ - ⊙	Wp	W	Wi			
0		GROUND SURFACE		95.71													
		FILL - (SM) SILTY SAND; brown; non-cohesive, moist, loose		0.00	1	SS	6									Bentonite Seal	
1		(ML) SILT, some sand, fine; grey brown, contains silt layers; non-cohesive, moist to wet, compact		94.95 0.76	2	SS	15									Silica Sand	
2					3	SS	15										
3	Power Auger 200 mm Diam. (Hollow Stem)	(SM/ML) gravelly SAND and SILT; grey, with cobbles and boulders (GLACIAL TILL); non-cohesive, wet, loose to very dense		93.42 2.29	4	SS	9									38 mm Diam. PVC #10 Slot Screen	
4					5	SS	15									MH	
5					6	SS	21										
6					7	SS	92										
7					8	SS	58										
8																	
9																	
10																	
		End of Borehole		89.62 6.09												WL in Screen at Elev. 93.436 m on July 3, 2020	

MIS-BHS 001 20144864.GPJ GAL-MIS.GDT 7/24/20 JMJ/JEM

DEPTH SCALE

1 : 50



LOGGED: DG

CHECKED: BB

PROJECT: 20144864

RECORD OF BOREHOLE: 20-311

SHEET 1 OF 1

LOCATION: N 5004680.7 ;E 356947.0

BORING DATE: June 23, 2020

DATUM: Geodetic

SAMPLER HAMMER, 64kg; DROP, 760mm

PENETRATION TEST HAMMER, 64kg; DROP, 760mm

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE		SAMPLES		DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m				HYDRAULIC CONDUCTIVITY, k, cm/s				ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION		
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	BLOWS/0.30m	SHEAR STRENGTH Cu, kPa				WATER CONTENT PERCENT					
								20		40		60				80	
0		GROUND SURFACE		95.69													
	Power Auger 200 mm Diam. (Hollow Stem)	TOPSOIL/FILL - (SM) SILTY SAND; dark brown, contains organic matter; moist		0.00	1	SS	3										
		(ML) SILT, trace sand; grey brown to grey, contains layers of clayey silt; non-cohesive, moist, very loose to loose		95.39 0.30													
1					94.17	2	SS	5					○		MH		
		(SM) gravelly SILTY SAND; grey, contains cobbles and boulders (GLACIAL TILL); non-cohesive, moist, compact to very dense		1.52	3	SS	26										
2				93.23	4	SS	50/ 0.03										
3		End of Borehole Auger Refusal		2.46													
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Open borehole dry upon completion of drilling

MIS-BHS 001 20144864.GPJ GAL-MIS.GDT 7/24/20 JM/JEM

DEPTH SCALE

1 : 50



LOGGED: KM

CHECKED: BB

PROJECT: 20144864

RECORD OF BOREHOLE: 20-312

SHEET 1 OF 1

LOCATION: N 5004719.6 ;E 357006.5

BORING DATE: June 23, 2020

DATUM: Geodetic

SAMPLER HAMMER, 64kg; DROP, 760mm

PENETRATION TEST HAMMER, 64kg; DROP, 760mm

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE		SAMPLES		DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m				HYDRAULIC CONDUCTIVITY, k, cm/s				ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION		
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	BLOWS/0.30m	SHEAR STRENGTH Cu, kPa				WATER CONTENT PERCENT					
								20 40 60 80		nat V. + Q - rem V. ⊕ U - ⊙		10 ⁻⁶ 10 ⁻⁵ 10 ⁻⁴ 10 ⁻³				Wp ----- W ----- WI	
0	Power Auger 200 mm Diam. (Hollow Stem)	GROUND SURFACE		96.19													
		TOPSOIL/FILL - (SM) SILTY SAND; dark brown, contains organic matter; non-cohesive, moist, very loose		0.00	1	SS	4										
1		(SM) gravelly SILTY SAND; grey brown, contains cobbles and boulders (GLACIAL TILL); non-cohesive, moist, compact to very dense		95.58 0.61	2	SS	19										
2		End of Borehole Auger Refusal		94.41 1.78	3	SS	50/ 0.10										
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Open borehole dry upon completion of drilling

MIS-BHS 001 20144864.GPJ GAL-MIS.GDT 7/24/20 JM/JEM

DEPTH SCALE

1 : 50



GOLDER

LOGGED: KM

CHECKED: BB



patersongroup
consulting engineers

154 Colonnade Road South
Ottawa, Ontario K2E 7J5
Tel: (613) 226-7381 Fax: (613) 226-6344

NO.	REVISIONS	DATE	INITIAL

CAIVAN (RICHMOND NORTH) LIMITED
GROUNDWATER IMPACT ASSESSMENT
PROPOSED RESIDENTIAL DEVELOPMENT - 6305 OTTAWA STREET WEST
OTTAWA, ONTARIO
Title:
SITE PLAN

Scale:	1:2500	Date:	06/2020
Drawn by:	YA	Report No.:	PH4034-LET.01
Checked by:	EA	Dwg. No.:	PH4034-1
Approved by:	MK	Revision No.:	

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**500 m RADIUS
BUFFER ZONE**

LEGEND:
 ● MECP WELL LOCATIONS

patersongroup
 consulting engineers

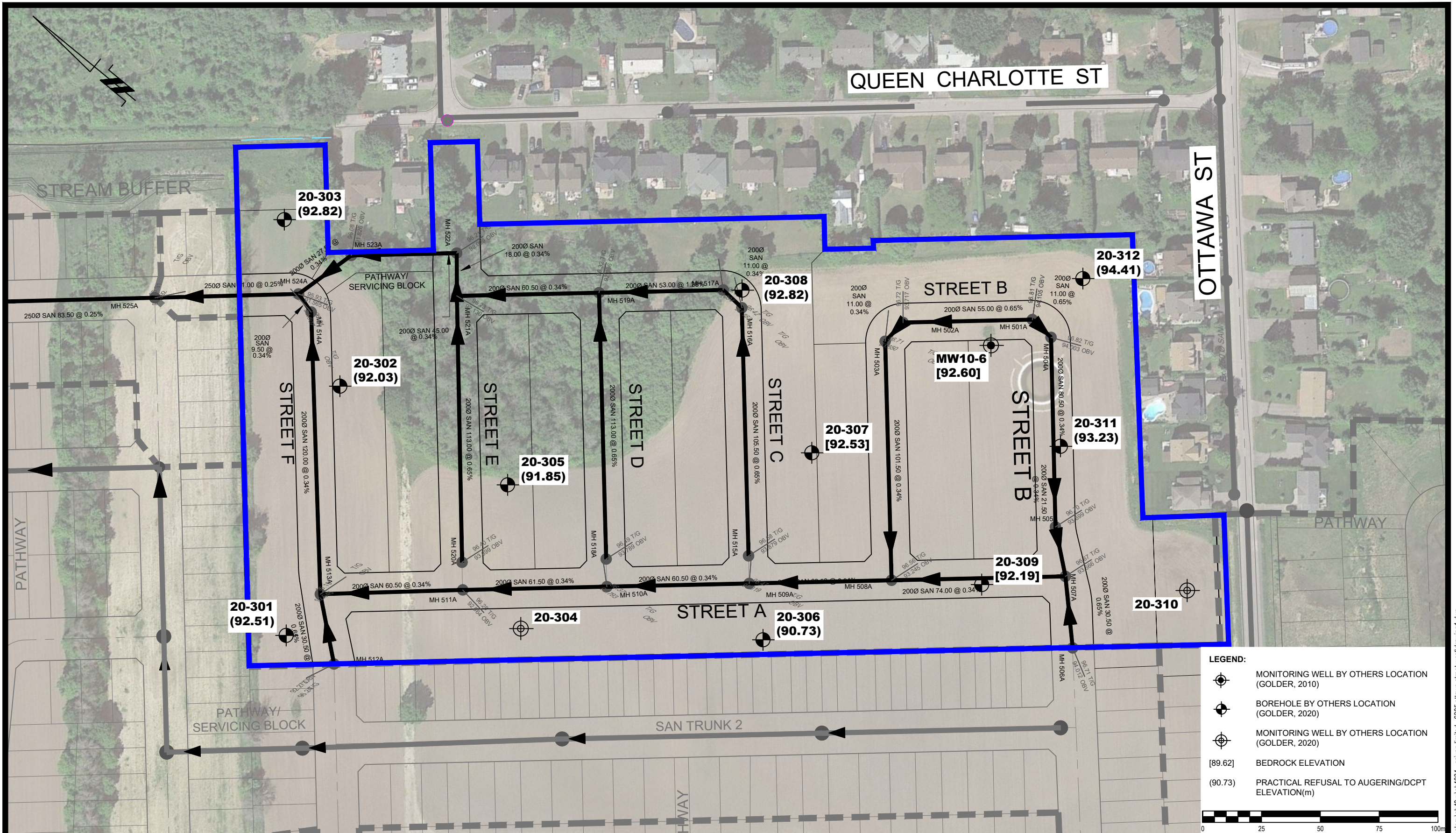
154 Colonnade Road South
 Ottawa, Ontario K2E 7J5
 Tel: (613) 226-7381 Fax: (613) 226-6344

NO.	REVISIONS	DATE	INITIAL

CAIVAN (RICHMOND NORTH) LIMITED
GROUNDWATER IMPACT ASSESSMENT
PROPOSED RESIDENTIAL DEVELOPMENT - 6305 OTTAWA STREET WEST
 OTTAWA, ONTARIO
 Title: **MECP WATER WELL LOCATION PLAN**

Scale:	1:7500	Date:	06/2020
Drawn by:	YA	Report No.:	PH4034-LET.01
Checked by:	EA	Dwg. No.:	PH4034-2
Approved by:	MK	Revision No.:	

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- LEGEND:**
- MONITORING WELL BY OTHERS LOCATION (GOLDER, 2010)
 - BOREHOLE BY OTHERS LOCATION (GOLDER, 2020)
 - MONITORING WELL BY OTHERS LOCATION (GOLDER, 2020)
 - [89.62] BEDROCK ELEVATION
 - (90.73) PRACTICAL REFUSAL TO AUGERING/DCPT ELEVATION(m)



patersongroup
consulting engineers
154 Colonnade Road, Ottawa, Ontario K2E 7J5

DD/MM/YY	Description	Rev.

Client
CAIVAN (RICHMOND NORTH) LIMITED

Project
PROPOSED RESIDENTIAL DEVELOPMENT
6305 OTTAWA STREET WEST
OTTAWA (CARP), ONTARIO

Drawing
TEST HOLE LOCATION PLAN

Scale: 1:1500
Date: 01/2021
Drawing no.: **PH4034-3**

Drawn by: RCG
Checked by: MK

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316/af. "A"

13 | 4 | 3 | 8 | 0 | P
3 | 5 | 2 | 0 | N



RECEIVED
JUN 19 1953
GEOLOGICAL BRANCH
DEPARTMENT of MINES

No. 9117

The Well Drillers Act
Department of Mines, Province of Ontario

Well Record

Situation: Is well on upland, in valley, or on hillside?
Drilling Firm.....
Address.....
Name of Driller.....
Date.....

Village, Town or City..... Richmond
Town or City.....
Richmond Ont.

Date Completed... 11 (day) Jan. (month) 53 (year) Cost of Well (excluding pump).....

Pipe and Casing Record

Pumping Test

Casing diameter(s)..... 4 inch
Length(s) of casing(s)..... 12 ft.
Type of screen..... No. screen
Length of screen.....
Distance from top of screen to ground level.....
Is well a gravel-wall type?.....

Date..... Jan. 11 1953
Static level..... 6
Pumping level..... 10 feet
Pumping rate..... 250 per hour
Duration of test..... half hour
Distance from cylinder or bowls to ground level.....

Water Record

Kind (fresh or mineral)..... fresh
Quality (hard, soft, contains iron, sulphur, etc.)..... soft
Appearance (clear, cloudy, coloured)..... clear
For what purpose(s) is the water to be used?..... private home
How far is well from possible source of contamination?..... 40 yds.
What is the source of contamination?..... septic tank
Enclose a copy of any mineral analysis that has been made of water.....

Depth(s) to Water Horizon(s)	Kind of Water	No. of Feet Water Rises
<u>40</u>	<u>fresh</u>	<u>42</u>

Well Log

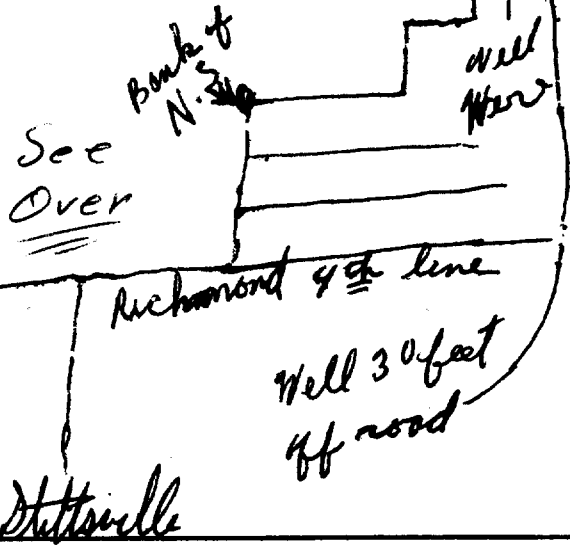
Overburden and Bedrock Record

From To
0 ft.ft.

<u>12 feet of blue clay</u>	<u>0</u>	<u>12</u>
<u>36 feet "gray limestone</u>	<u>12</u>	<u>48</u>

Location of Well

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



Situation: Is well on upland, in valley, or on hillside?
Drilling Firm..... J. B. Sparks
Address..... Stittsville, Ont.
Name of Driller..... Clayton Sparks Address..... Stittsville, Ont.
Date..... Jan. 11 1953 Licence Number..... 396
J. B. Sparks
Signature of Licensee

316/4f "A"

UIM 1 18 2 4 3 4 5 4 5 P

5 R 5 0 0 3 1 6 0 N

Elev. 4 R 0 3 1 1 0

Basin 2 5



ONTARIO

RECEIVED JUN 19 1953 GEOLOGICAL BRANCH DEPARTMENT of MINES

15 No 9121

The Well Drillers Act

Department of Mines, Province of Ontario

Water Well Record

Village, Town or City... *Richmond*

Town or City.....

Richmond, Ont.

Date Completed... *18* (day) *Feb* (month) *53* (year) Cost of Well (excluding pump).....

Pipe and Casing Record

Pumping Test

Casing diameter(s) *4 inch*
Length(s) of casing(s) *18 ft*
Type of screen *No. screen*
Length of screen.....
Distance from top of screen to ground level.....
Is well a gravel-wall type?.....

Date *Feb 18 1953*
Static level *25 feet*
Pumping level *30 ft*
Pumping rate *150 per hr.*
Duration of test *half hour*
Distance from cylinder or bowls to ground level.....

Water Record

Kind (fresh or mineral) *fresh*
Quality (hard, soft, contains iron, sulphur, etc.) *soft*
Appearance (clear, cloudy, coloured) *clear*
For what purpose(s) is the water to be used? *house*
How far is well from possible source of contamination? *150 feet*
What is the source of contamination? *septic tank*
Enclose a copy of any mineral analysis that has been made of water.....

Depth(s) to Water Horizon(s)	Kind of Water	No. of Feet Water Rises
<i>80</i>	<i>fresh</i>	<i>65</i>

Well Log

Overburden and Bedrock Record

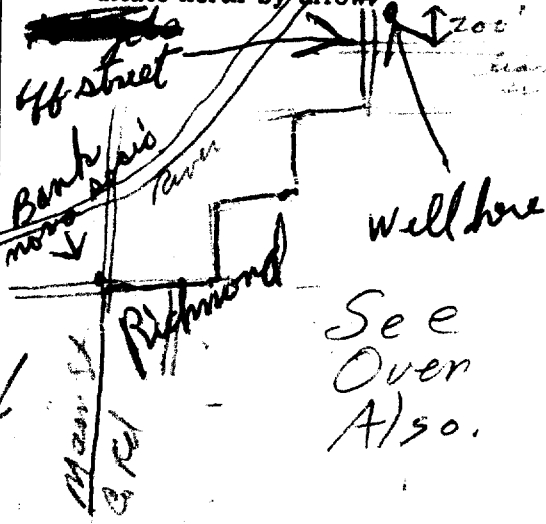
From To
0 ft.ft.

18 feet clay 0 18

72 feet gray limestone 18 90

Location of Well

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



See Over Also.

Situation: Is well on upland, in valley, or on hillside?.....

Drilling Firm *F. P. Sparks*

Address *Stittsville, Ont.*

Name of Driller *Clayton Sparks* Address *Stittsville, Ont.*

Date *Feb 18 1953* Licence Number *396*

F. P. Sparks
Signature of Licensee

316/4f. A'



UTM 118Z 434415P

5R 5003530N

Elev. 4R 03110

The Ontario Water Resources Commission Act, 1957

Basin 25

15 No 9207
GROUND WATER BRANCH
JAN 11 1959
RESOURCES COMMISSION

WATER WELL RECORD

County or District CARLTON Township Brierton Village, Town or City Brierton

Con. _____ Lot _____ Date completed 21 Oct 59
(day month year)

Address 2 MARILAND ST Brierton

Casing and Screen Record

Inside diameter of casing 4"
Total length of casing 34'
Type of screen -
Length of screen -
Depth to top of screen -
Diameter of finished hole 4"

Pumping Test

Static level Flowing
Test-pumping rate 5 G.P.M.
Pumping level Top
Duration of test pumping 1 hr
Water clear or cloudy at end of test Clear
Recommended pumping rate 5 G.P.M.
with pumping level of Top

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, sulphur)
<u>CLAY</u>	<u>0</u>	<u>34</u>			
<u>Limestone</u>	<u>34</u>	<u>44</u>	<u>44</u>	<u>44</u>	<u>FRESH</u>

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

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

Drilling Firm M MEAGHER

Address OTTAWA

Licence Number _____

Name of Driller same

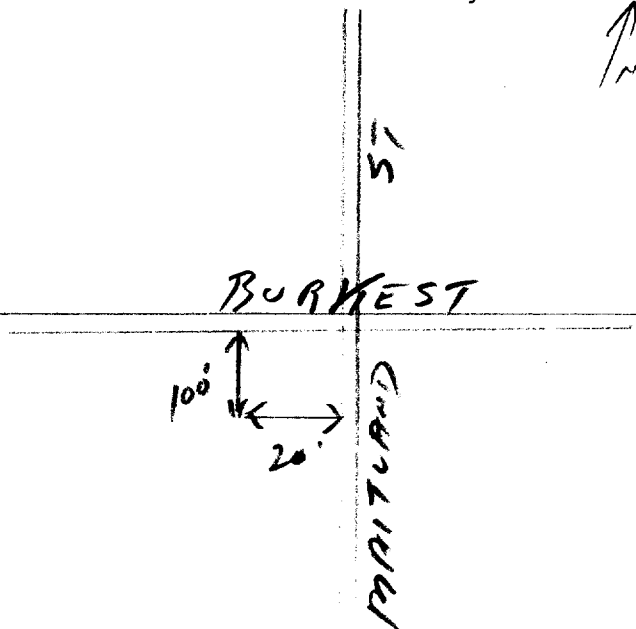
Address _____

Date Jan 11/59

M Meagher
(Signature of Licensed Drilling Contractor)

Location of Well

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



637
 UTM 182 434315 P
 5R 5003640 N

316/4f "A"



GROUND WATER BRANCH
 15 JUN 23 1962
 ONTARIO WATER RESOURCES COMMISSION

Elev. 4R 0310 The Ontario Water Resources Commission Act, 1957

Basin 25

WATER WELL RECORD

VILLAGE OF RICHMOND

County or District CARLETON Township, Village, Town or City (NEPEAN)
 Con. _____ Lot _____ Date completed 23 JUNE 1960
 (day month year)
 Owner JOHN COADY CONST. Address 212 ELLENDALE CRESCENT OTTAWA
 (print in block letters)

Casing and Screen Record

Pumping Test

Inside diameter of casing 8"
 Total length of casing 24'
 Type of screen NONE
 Length of screen _____
 Depth to top of screen _____
 Diameter of finished hole 8"

Static level 8'
 Test-pumping rate 45 G.P.M.
 Pumping level 20'
 Duration of test pumping 1 HR.
 Water clear or cloudy at end of test CLOUDY
 Recommended pumping rate 45 G.P.M.
 with pumping level of 20'

Well Log

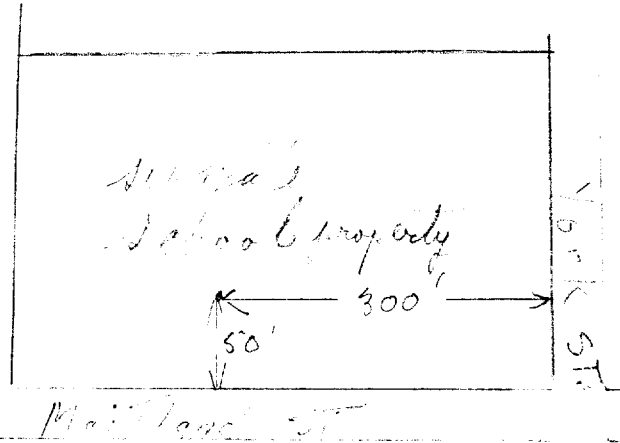
Water Record

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, sulphur)
<u>sand & boulders</u>	<u>0'</u>	<u>14'</u>			
<u>grey limestone</u>	<u>24'</u>	<u>80'</u>	<u>80</u>	<u>72</u>	<u>fresh</u>

For what purpose(s) is the water to be used?
SCHOOL
 Is well on upland, in valley, or on hillside? _____
 Drilling Firm McLEAN WATER SUPPLY LTD.
1502 RAVEN AVE.
 Address PA 2-7915 OTTAWA
 Licence Number 476
 Name of Driller B. FOSTER
 Address _____
 Date _____
A. L. McLean
 (Signature of Licensed Drilling Contractor)

Location of Well

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



48

30/4/71



GROUND WATER BRANCH
 15 No. 9256
 JUN 1 1962
 ONTARIO WATER RESOURCES COMMISSION

UTM 18Z 434410F

5R 5003765N

The Ontario Water Resources Commission Act

Elev. 4R 0309

WATER WELL RECORD

Basin 25 | | | | |
County or District CHALTON

Township, Village, Town or City RICHMOND

Con. — Lot —

Date completed 10 MAR 62
(day month year)

Owner J.P. BIGRAS CONST CO
(print in block letters)

Address EASTVIEW

Casing and Screen Record

Pumping Test

Inside diameter of casing 4"
 Total length of casing 20'
 Type of screen —
 Length of screen —
 Depth to top of screen —
 Diameter of finished hole 4"

Static level 12
 Test-pumping rate 5 G.P.M.
 Pumping level 15
 Duration of test pumping 1 HR
 Water clear or cloudy at end of test CLEAR
 Recommended pumping rate 5 G.P.M.
 with pump setting of 50 feet below ground surface

Well Log

Water Record

Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
<u>BLUE CLAY</u>	<u>0</u>	<u>20</u>		
<u>LIMESTONE</u>	<u>20</u>	<u>60</u>	<u>40-60</u>	<u>FRESH</u>

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

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

Drilling or Boring Firm
F.P. SPARKS

Address ST. JULIE

Licence Number 616

Name of Driller or Borer SAME

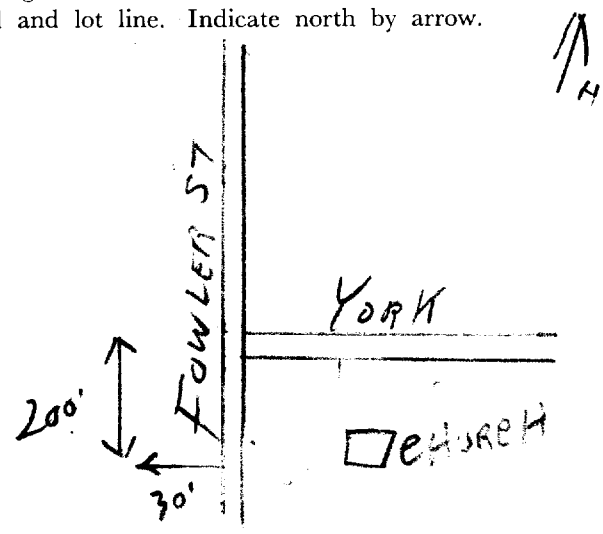
Address

Date MAY 24/62

L. Sparks
 (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.



50

316/4f. 7A



WATER RESOURCES DIVISION
15 No. 9296
ONTARIO WATER RESOURCES COMMISSION
Richmond
Goulburn

UTM 1182 434385

5R 5003805N

The Ontario Water Resources Commission Act

Elev. 4R 0310

WATER WELL RECORD

Basin 215 Carleton

Township Village Town or City

County or District

Date completed 25th, Sept. 1965
(day month year)

Con. Lot pt 13
Address Forfar, Ont.
(drilled in Richmond)

Casing and Screen Record

Pumping Test

Inside diameter of casing 6 and 5/8
 Total length of casing 16'
 Type of screen -
 Length of screen -
 Depth to top of screen -
 Diameter of finished hole 6"

Static level 10
 Test-pumping rate 300 G.P.H. G.P.M.
 Pumping level 35'
 Duration of test pumping 1 hour
 Water clear or cloudy at end of test clear
 Recommended pumping rate 300 G.P.H. G.P.M.
 with pump setting of 10 feet below ground surface

Well Log

Water Record

Overburden and Bedrock Record

From ft.

To ft.

Depth(s) at which water(s) found

Kind of water (fresh, salty, sulphur)

clay
limestone (grey)

0 13
13 80

72 fresh

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

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

Drilling or Boring Firm J.B. Dufresne & Co. Ltd.
Address 1014 Maitland Ave., Ottawa, Ont.

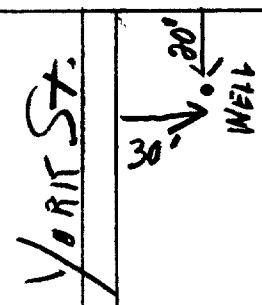
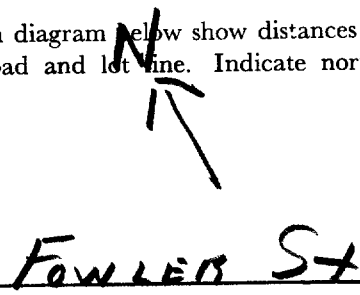
Licence Number 1307

Name of Driller or Borer W. Roy
Address 79 St-Basile, Deschênes Que.

Date September 25th, 1965
(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.



18 434350

4 560 03395

Nov. 4 0308

25



CODED

Water management in Ontario

1509605

DEPT. OF WATER RESOURCES

The Ontario Water Resources Commission Act

1968 1969

WATER WELL RECORD

County or District Carleton Township, Village, Town or City Richmond
 Con. III Lot 23 Date completed 21 Nov 1968
 (day month year)
 Owner Julia Constr Ltd Address Richmond Ont.
 (print in block letters)

Casing and Screen Record

Inside diameter of casing 5"
 Total length of casing 19'
 Type of screen
 Length of screen
 Depth to top of screen
 Diameter of finished hole 5"

Pumping Test

Static level
 Test-pumping rate 10 G.P.M.
 Pumping level
 Duration of test pumping
 Water clear or cloudy at end of test
 Recommended pumping rate G.P.M.
 with pump setting of feet below ground surface

Well Log

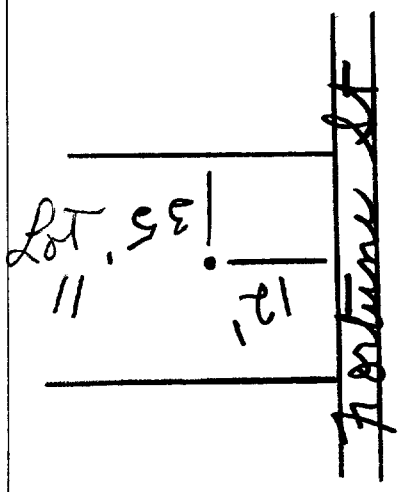
Water Record

Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
<u>clay</u>	<u>0</u>	<u>15'</u>	<u>60</u>	<u>fresh</u>
<u>limestone</u>	<u>15</u>	<u>62</u>		

For what purpose(s) is the water to be used? new house
 Is well on upland, in valley or on hillside?
 Drilling or Boring Firm Capital Water Supply Ltd.
 Address 14 Ashford Dr
Ottawa 6
 Licence Number 2857
 Name of Driller or Borer J. Kavanagh
 Address
 Date 21 Nov 1968
J. Kavanagh
 (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.



JTM. 18-434370

4-50031195 CODED



1509723

B

Elev. 456 0312

The Ontario Water Resources Commission Act

Basin 25

WATER WELL RECORD

County or District Carleton Township, Village, Town or City Richmond

Con. III Lot 23 Date completed 4 Dec 1968
(day month year)

Owner Julia Constr Ltd Address Richmond Ont
(print in block letters)

Casing and Screen Record

Pumping Test

Inside diameter of casing 5"
Total length of casing 18'
Type of screen
Length of screen
Depth to top of screen
Diameter of finished hole 5"

Static level 6
Test-pumping rate 10 G.P.M.
Pumping level 15
Duration of test pumping 1 hr
Water clear or cloudy at end of test
Recommended pumping rate 5 G.P.M.
with pump setting of 30 feet below ground surface

Well Log

Water Record

Overburden and Bedrock Record

hardpan & boulders
limestone

From ft.

To ft.

Depth(s) at which water(s) found

Kind of water (fresh, salty, sulphur)

0

10'

60

fresh

10'

62'

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

new house

Is well on upland, in valley or on hillside?

Drilling or Boring Firm Capital Water Supply Ltd.

Address 14 Ashford Dr
Ottawa 6

Licence Number 2857

Name of Driller or Borer B Acres

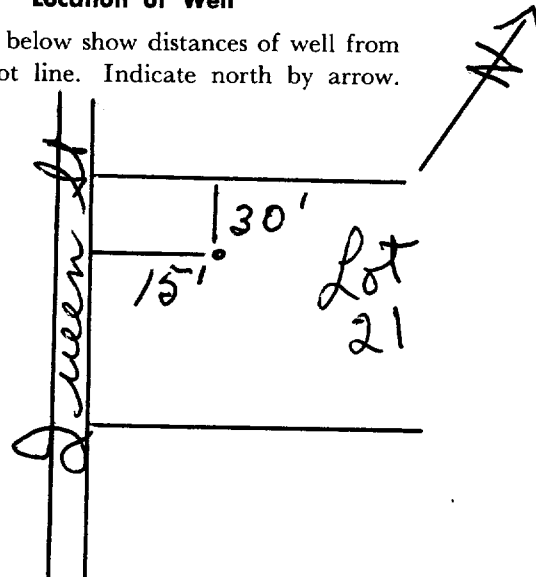
Address

Date 4 Dec 1968

Thaler Lavanagh
(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.



UTM 18 434 450
 4 58 0 0 3 2 7 0
 Elev. 4 0 3 0 8
 Basin 25



1509724
 3 9

B

The Ontario Water Resources Commission Act

WATER WELL RECORD

County or District Carleton Township, Village, Town or City Richmond
 Con. 111 Lot 23 Date completed 29 Nov 1968
 (day month year)
 Owner Julia Construction Address Richmond Ont.
 (print in block letters)

Casing and Screen Record

Inside diameter of casing 5"
 Total length of casing 24
 Type of screen
 Length of screen
 Depth to top of screen
 Diameter of finished hole 5"

Pumping Test

Static level 10
 Test-pumping rate 10 G.P.M.
 Pumping level 12
 Duration of test pumping 1 hr
 Water clear or cloudy at end of test
 Recommended pumping rate 5 G.P.M.
 with pump setting of 30 feet below ground surface

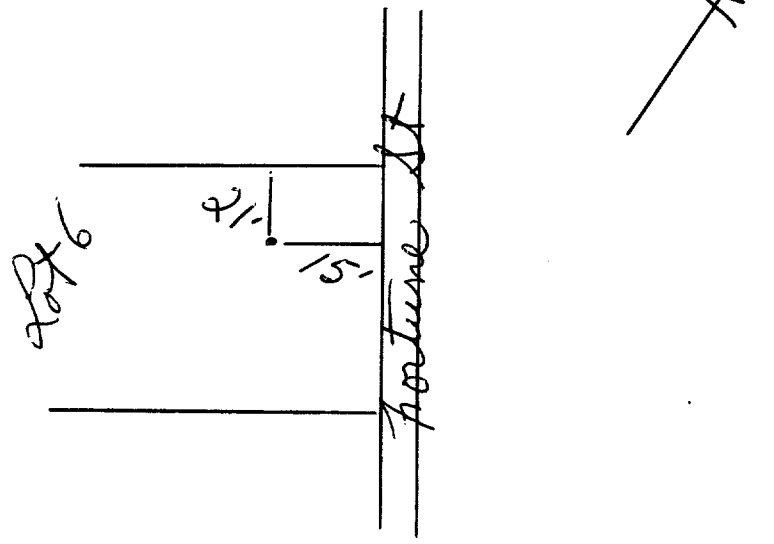
Well Log

Overburden and Bedrock Record	Water Record			
	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
<u>hardpan & boulders</u>	<u>0</u>	<u>19</u>	<u>55'</u>	<u>fresh</u>
<u>limestone</u>	<u>19</u>	<u>56</u>		

For what purpose(s) is the water to be used?
new house
 Is well on upland, in valley, or on hillside?
 Drilling or Boring Firm Capital Water Supply Ltd.
 Address 14 Ashford Dr
Ottawa 6
 Licence Number 2857
 Name of Driller or Borer B Aves
 Address
 Date Nov 1968
Walter Lavarnagh
 (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.



JTM 118-434475
 433003250
 Elev. 40307



1509725
 3 9

B

CODED

Water management in Ontario

The Ontario Water Resources Commission Act

WATER WELL RECORD

Basin 257
 County or District Carleton Township, Village, Town or City Richmond
 Con. 711 Lot 23 Date completed 26 Nov 1968
 (day month year)
 Owner Julia Constr. Ltd. Address Richmond Ont.
 (print in block letters)

Casing and Screen Record

Inside diameter of casing 5"
 Total length of casing 26'
 Type of screen
 Length of screen
 Depth to top of screen
 Diameter of finished hole 5"

Pumping Test

Static level 5
 Test-pumping rate 10 G.P.M.
 Pumping level 17
 Duration of test pumping 1 hr
 Water clear or cloudy at end of test
 Recommended pumping rate 5 G.P.M.
 with pump setting of 30 feet below ground surface

Well Log

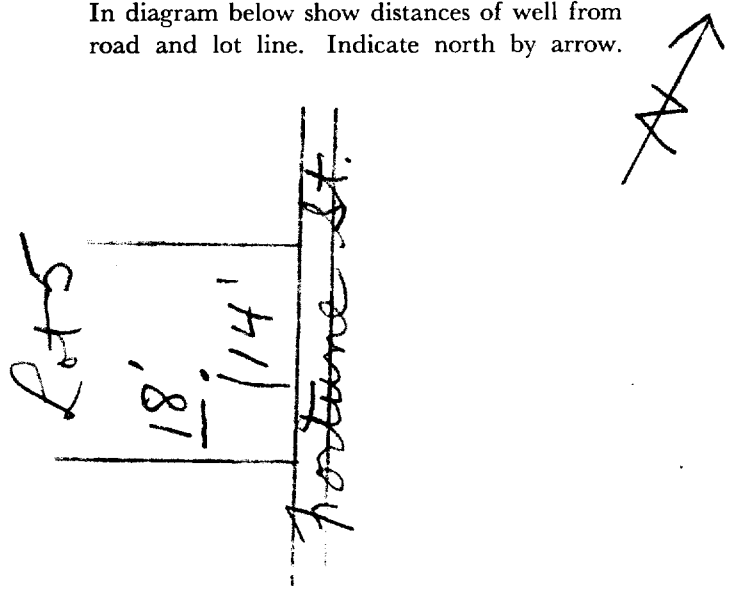
Water Record

Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
clay & boulders	0'	23'	54	fresh
limestone	23'	55'		

For what purpose(s) is the water to be used?
 new house
 Is well on upland, in valley, or on hillside?
 Drilling or Boring Firm Capital Water Supply Ltd.
 Address 14 Ashford Dr
 Ottawa 6
 Licence Number 2857
 Name of Driller or Borer B Acres
 Address
 Date Nov 26 1968
 Walter Lavonagh
 (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.



Div. 18-434325
 4-50-03415
 Div. 4-0308

CODED



Water management in Ontario

1509726
 3 9

B

The Ontario Water Resources Commission Act

WATER WELL RECORD

County or District Carleton Township, Village, Town or City Richmond
 Con. III Lot 23 Date completed 18 Nov 1968
 (day month year)
 Owner Julia Construction Ltd Address Richmond Ont.
 (print in block letters)

Casing and Screen Record

Inside diameter of casing 5"
 Total length of casing 20'
 Type of screen
 Length of screen
 Depth to top of screen
 Diameter of finished hole 5"

Pumping Test

Static level 18
 Test-pumping rate 10 G.P.M.
 Pumping level 28
 Duration of test pumping 1 hr
 Water clear or cloudy at end of test
 Recommended pumping rate 5 G.P.M.
 with pump setting of 35' feet below ground surface

Well Log

Overburden and Bedrock Record

sandy clay with
shoulders
limestone

From ft.

To ft.

Depth(s) at which water(s) found

Kind of water (fresh, salty, sulphur)

0

15'

60

fresh

15

61

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

new house

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

Drilling or Boring Firm Capital Water Supply Ltd

Address 14 Ashford Dr
Ottawa 6

Licence Number 2851

Name of Driller or Borer B Acres

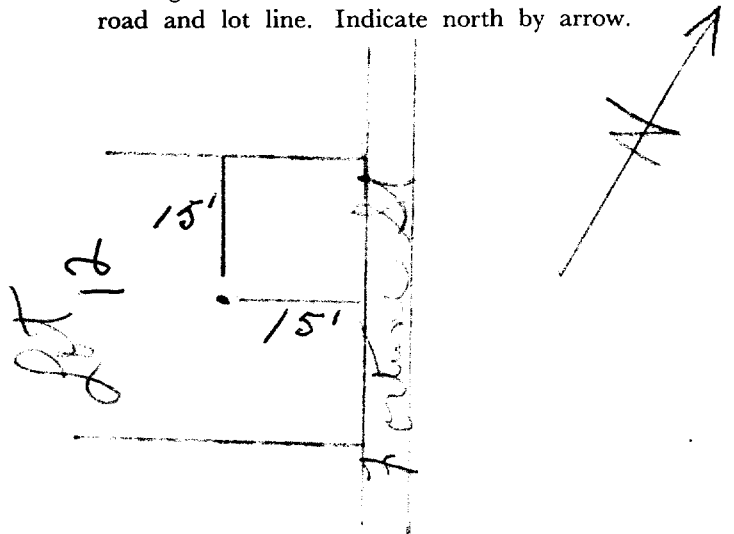
Address

Date Nov 18 1968

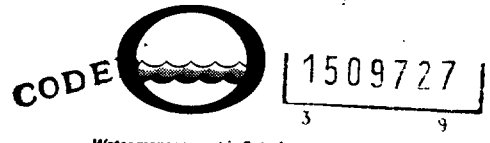
Thaler Lavanagh
 (Signature of Licensed Drilling or Boring Contractor)

Location of Well

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



JTW 18-434380
 4^R 159 03175^T
 lev. 4 8 3 1 2
 sin 25^T



B

The Ontario Water Resources Commission Act

WATER WELL RECORD

JAN 8 1968

County or District Carleton Township, Village, Town or City Richmond
 Con. III Lot 23 Date completed 14 Nov 1968
 (day month year)
 Owner Julia Construction Ltd. Address Richmond Ont.
 (print in block letters)

Casing and Screen Record

Pumping Test

Inside diameter of casing 5
 Total length of casing 20'
 Type of screen
 Length of screen
 Depth to top of screen
 Diameter of finished hole 5"

Static level 4
 Test-pumping rate 10 G.P.M.
 Pumping level 6
 Duration of test pumping 1 hr
 Water clear or cloudy at end of test
 Recommended pumping rate 5 G.P.M.
 with pump setting of 30 feet below ground surface

Well Log

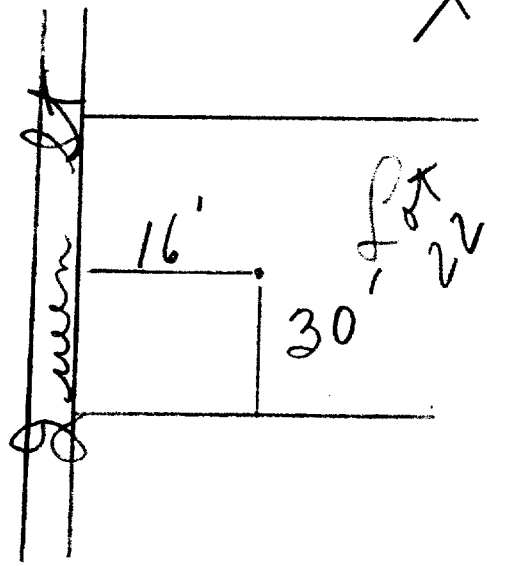
Water Record

Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
<u>sandy clay</u>	<u>0'</u>	<u>6'</u>	<u>62</u>	<u>fresh</u>
<u>limestone</u>	<u>6</u>	<u>63</u>		

For what purpose(s) is the water to be used?
new house
 Is well on upland, in valley or on hillside?
 Drilling or Boring Firm Capital Water Supply Ltd.
 Address 14 Ashford Dr
Ottawa 6
 Licence Number 2857
 Name of Driller or Borer B Acres
 Address
 Date 14 Nov 1968
Walter Lavanagh
 (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.



18-434280

4-50003440

CODED



1509730

B

4-0308

The Ontario Water Resources Commission Act

WATER WELL RECORD

County or District Carleton Township, Village, Town or City Richmond
 Con. 4th Lot 23 Date completed 1 Nov 1968
 (day month year)
 Address Richmond Ont.

Casing and Screen Record

Inside diameter of casing 5"
 Total length of casing 20'
 Type of screen
 Length of screen
 Depth to top of screen
 Diameter of finished hole 5"

Pumping Test

Static level 12
 Test-pumping rate 10 G.P.M.
 Pumping level 21'
 Duration of test pumping 1 hr
 Water clear or cloudy at end of test
 Recommended pumping rate 5 G.P.M.
 with pump setting of 30' feet below ground surface

Well Log

Water Record

Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
<u>clay with boulders</u>	<u>0</u>	<u>10</u>	<u>52</u>	<u>fresh</u>
<u>limestone</u>	<u>10</u>	<u>53</u>		

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

new house

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

Drilling or Boring Firm Capital Water Supply Ltd.

Address 14 Ashford Dr. Ottawa 6

Licence Number 2857

Name of Driller or Borer B. Acres

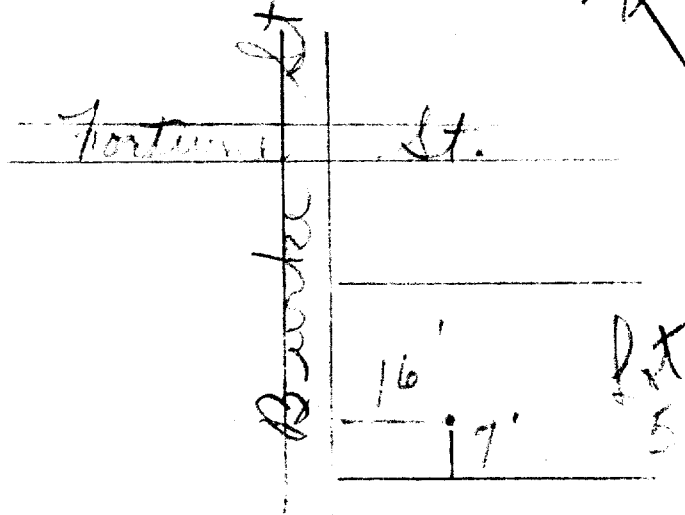
Address

Date 1 Nov 1968

Kater Kavanagh
(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.



ATM 118-434320
14-480-03230



1509731
3 9

B

Water management in Ontario

Elev. 4-01312

The Ontario Water Resources Commission Act

WATER RESOURCES

Basin 25T

WATER WELL RECORD

JAN 9 1969

County or District Carleton

Township, Village, Town or City Richmond

Con. 71 Lot 23

Date completed 24 Dec 1968
(day month year)

Owner Julia Constr Ltd.
(print in block letters)

Address Richmond Ont.

Casing and Screen Record

Pumping Test

Inside diameter of casing 5"
Total length of casing 18'
Type of screen
Length of screen
Depth to top of screen
Diameter of finished hole 5"

Static level 8
Test-pumping rate 10 G.P.M.
Pumping level 12'
Duration of test pumping 1 hr
Water clear or cloudy at end of test
Recommended pumping rate 5 G.P.M.
with pump setting of 30 feet below ground surface

Well Log

Water Record

Overburden and Bedrock Record

hardpan & boulders
limestone

From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
0	9'	58'	fresh
9'	60'		

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

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

Drilling or Boring Firm Capital Water Supply Ltd.

Address 14 Ashford Dr
Ottawa 6

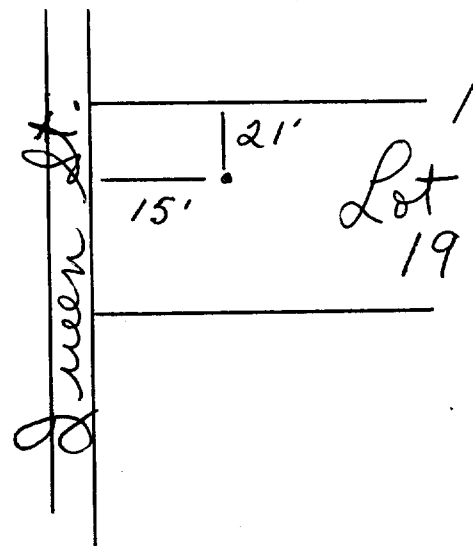
Licence Number 2857

Name of Driller or Borer B Acres

Address
Date 24 Dec 1968
Walter Lavagnagh
(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.



STN 18 4 34 36 5
 4 50 03 38 0

CODED



1509736

B

Water management in Ontario

Elev. 46 0309

The Ontario Water Resources Commission Act

WATER WELL RECORD

Basin 25

County or District Carleton

Township, Village, Town or City Richmond

Con. 111 Lot 23

Date completed 10 Dec 1968
(day month year)

Owner Julca Constr Ltd.
(print in block letters)

Address Richmond Ont.

Casing and Screen Record

Pumping Test

Inside diameter of casing 5"
 Total length of casing 24'
 Type of screen
 Length of screen
 Depth to top of screen
 Diameter of finished hole 5"

Static level 2'
 Test-pumping rate 10 G.P.M.
 Pumping level 27'
 Duration of test pumping 1 hr
 Water clear or cloudy at end of test clear
 Recommended pumping rate 5 G.P.M.
 with pump setting of 30 feet below ground surface

Well Log

Water Record

Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
<u>sandy clay</u>	<u>0</u>	<u>15'</u>	<u>67'</u>	<u>fresh</u>
<u>hardpan & boulders</u>	<u>15</u>	<u>20</u>		
<u>limestone</u>	<u>20</u>	<u>68</u>		

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

new house

Is well on upland, in valley or on hillside?

Drilling or Boring Firm Capital Water Supply Ltd

Address 14 Ashford Dr

Ottawa 6

Licence Number 2857

Name of Driller or Borer J Miron

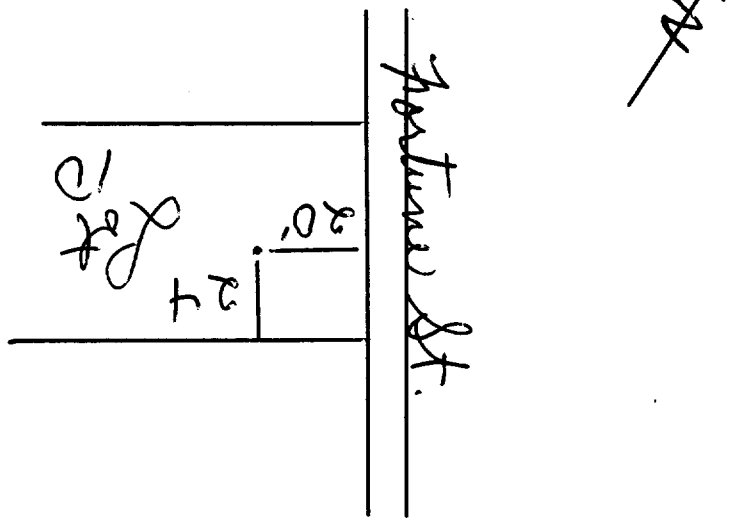
Address

Date 10 Dec 1968

Walter Kavanagh
(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.



JTM 18-434380 CODED
 4-52033601



1509737

B

Elev. 450310

The Ontario Water Resources Commission Act

Basin 215 L

WATER WELL RECORD

County or District Carleton Township, Village, Town or City Richmond
 Con. 1/4 Lot 23 Date completed 4 Dec 1968
 (day month year)
 Owner Julia Constr Ltd. Address Richmond Ont.
 (print in block letters)

Casing and Screen Record

Pumping Test

Inside diameter of casing 5"
 Total length of casing 20'
 Type of screen
 Length of screen
 Depth to top of screen
 Diameter of finished hole 5"

Static level 1'
 Test-pumping rate 10 G.P.M.
 Pumping level 25'
 Duration of test pumping 1 hr
 Water clear or cloudy at end of test
 Recommended pumping rate 5 G.P.M.
 with pump setting of 30 feet below ground surface

Well Log

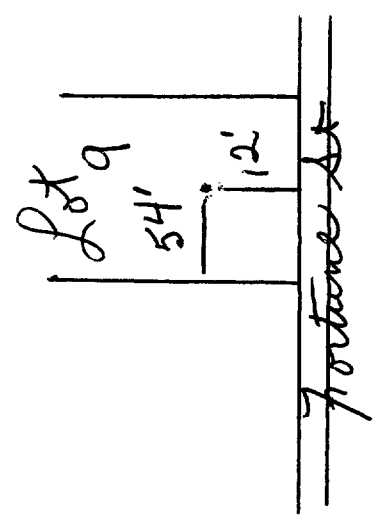
Water Record

Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
<u>sand clay</u>	<u>0</u>	<u>14</u>	<u>58</u>	<u>fresh</u>
<u>hardpan & boulders</u>	<u>14'</u>	<u>17'</u>		
<u>limestone</u>	<u>17</u>	<u>60</u>		

For what purpose(s) is the water to be used?
new house
 Is well on upland, in valley, or on hillside?
 Drilling or Boring Firm Capital Water Supply Ltd.
 Address 14 Ashford Dr
Ottawa 6
 Licence Number 2857
 Name of Driller or Borer V Miron
 Address
 Date Dec 4 1968
Walter Xavanagh
 (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.



J.N. 18 434 400
 4 50 03 33 0
 Elev. 456 0310



1509738

B

CODED

Water management in Ontario

The Ontario Water Resources Commission Act

WATER WELL RECORD

Basin 25
 County or District Carleton Township, Village, Town or City Richmond
 Con. 14 Lot 23 Date completed 29 Nov 1968
 (day month year)
 Owner Julia Constr Ltd. Address Richmond Ont.
 (print in block letters)

Casing and Screen Record

Pumping Test

Inside diameter of casing 5"
 Total length of casing 22'
 Type of screen
 Length of screen
 Depth to top of screen
 Diameter of finished hole 5"

Static level 4
 Test-pumping rate 10 G.P.M.
 Pumping level 8
 Duration of test pumping 1 hr
 Water clear or cloudy at end of test
 Recommended pumping rate 5 G.P.M.
 with pump setting of 30 feet below ground surface

Well Log

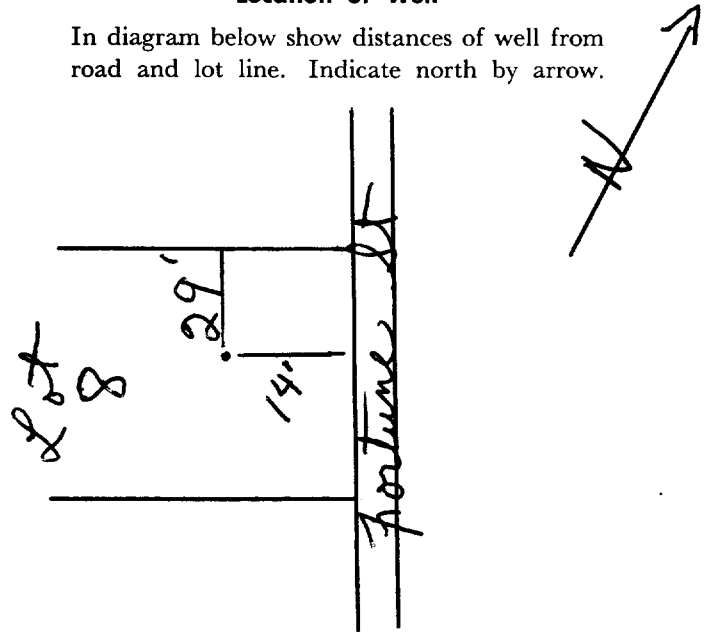
Water Record

Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
<u>clay</u>	<u>0'</u>	<u>12'</u>	<u>58</u>	<u>fresh</u>
<u>hardpan & boulders</u>	<u>12'</u>	<u>18'</u>		
<u>limestone</u>	<u>18</u>	<u>60</u>		

For what purpose(s) is the water to be used?
new house
 Is well on upland, in valley or on hillside?
 Drilling or Boring Firm Capital Water Supply Ltd.
 Address 14 Ashbird Dr
Ottawa 6
 Licence Number 2857
 Name of Driller or Borer V Miron
 Address
 Date 29 Nov 1968
Walter Xavanagh
 (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.



STN 18434305
45003270



Water management in Ontario

lev. 410311

The Ontario Water Resources Commission Act

WATER WELL RECORD

County or District Carleton Township, Village, Town or City Richmond
Con. 711 Lot 23 Date completed 6 Jan 1969
(day month year)
Owner Julia Const. Ltd. Address Richmond Ont.
(print in block letters)

Casing and Screen Record		Pumping Test	
Inside diameter of casing	<u>5"</u>	Static level	<u>15</u>
Total length of casing	<u>18'</u>	Test-pumping rate	<u>10</u> G.P.M.
Type of screen	<u>-</u>	Pumping level	<u>20</u>
Length of screen	<u>-</u>	Duration of test pumping	<u>1 hr</u>
Depth to top of screen	<u>-</u>	Water clear or cloudy at end of test	<u>-</u>
Diameter of finished hole	<u>5"</u>	Recommended pumping rate	<u>5</u> G.P.M.
		with pump setting of	<u>30</u> feet below ground surface

Well Log	Water Record			
	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
Overburden and Bedrock Record				
<u>hardpan & boulders</u>	<u>0'</u>	<u>11'</u>	<u>59'</u>	<u>fresh</u>
<u>limestone</u>	<u>11</u>	<u>60</u>		

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

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

Drilling or Boring Firm Capital Water Supply Ltd.

Address 14 Ashford Dr
Ottawa 6

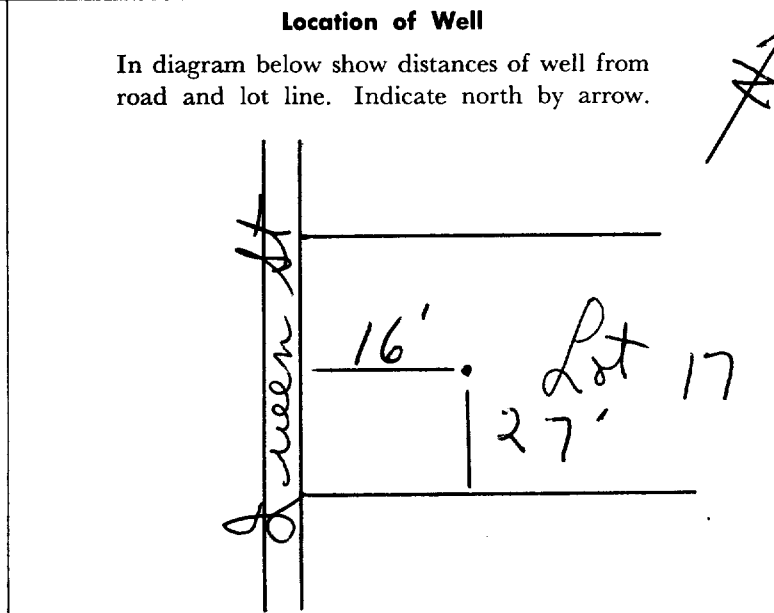
Licence Number 2857

Name of Driller or Borer M Kavanagh

Address _____

Date 6 Jan 1969

Malter Kavanagh
(Signature of Licensed Drilling or Boring Contractor)



18 434315

4 57003245

4 0311

CODFD



1509978

Water management in Ontario

The Ontario Water Resources Commission Act

WATER WELL RECORD

County or District Carleton Township, Village, Town or City Richmond
 Con. III Lot 23 Date completed 7 Jan 1969
 (day month year)
 Owner Julia Constr. Ltd. Address Richmond Ont.
 (print in block letters)

Casing and Screen Record

Inside diameter of casing 5"
 Total length of casing 18'
 Type of screen
 Length of screen
 Depth to top of screen
 Diameter of finished hole 5"

Pumping Test

Static level 10
 Test-pumping rate 10 G.P.M.
 Pumping level 15'
 Duration of test pumping 1 hr
 Water clear or cloudy at end of test
 Recommended pumping rate 5 G.P.M.
 with pump setting of 30 feet below ground surface

Well Log

Overburden and Bedrock Record

hardpan & boulders
limestone

From ft.

To ft.

Depth(s) at which water(s) found

Kind of water (fresh, salty, sulphur)

0'

10'

58'

fresh

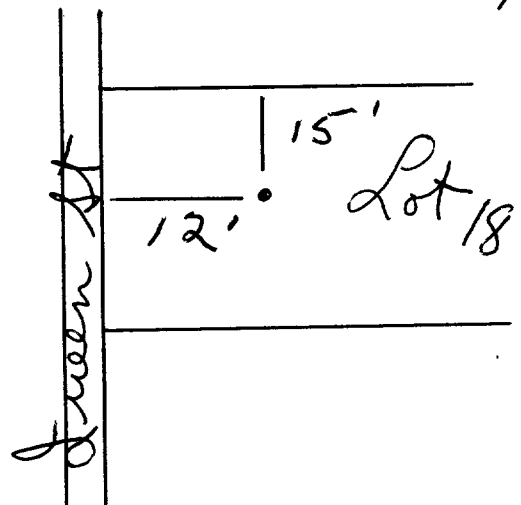
10'

60'

For what purpose(s) is the water to be used?
new house
 Is well on upland, in valley or on hillside?
 Drilling or Boring Firm Capital Water Supply Ltd.
 Address 14 Ashford Dr
Ottawa 6
 Licence Number 2857
 Name of Driller or Borer B Acres
 Address
 Date 6 Jan 1969
Walter Kavanagh
 (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.





Water management in Ontario

1509979

3

9

The Ontario Water Resources Commission Act

WATER WELL RECORD

County or District

Carleton

Township, Village, Town or City

Richmond

Con.

III

Lot

23

Date completed

7

Jan

1969

Owner

Julia Constr Ltd.
(print in block letters)

Address

Richmond Ont.

Casing and Screen Record

Pumping Test

Inside diameter of casing 5"

Total length of casing 18'

Type of screen

Length of screen

Depth to top of screen

Diameter of finished hole 5"

Static level 12

Test-pumping rate 10 G.P.M.

Pumping level 22'

Duration of test pumping 1 hr

Water clear or cloudy at end of test

Recommended pumping rate 5 G.P.M.

with pump setting of 30 feet below ground surface

Well Log

Water Record

Overburden and Bedrock Record

From ft.

To ft.

Depth(s) at which water(s) found

Kind of water (fresh, salty, sulphur)

hardpan & boulders

limestone

0'

10'

58

fresh

10'

60'

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

new house

Is well on upland, in valley or on hillside?

Drilling or Boring Firm

Capital Water Supply Ltd

Address

14 Ashford Dr
Ottawa 6

Licence Number

2857

Name of Driller or Borer

H mains

Address

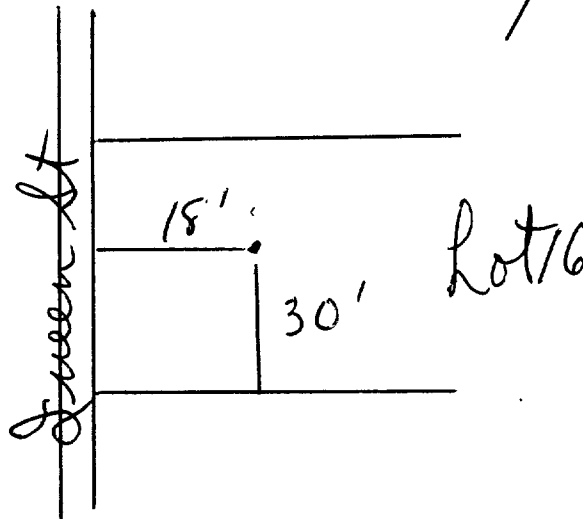
Date

Jan 1968

Walter Lavanagh
(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.



STN. 15 434270
 4 50 03 30 00
 Elev. 4 0311
 25



Water management in Ontario

DIVISION OF WATER RESOURCES

The Ontario Water Resources Commission Act

APR 2 1969

WATER WELL RECORD

County or District Carl Township, Village, Town or City Richmond
 Con. 111 Lot 23 Date completed 24 8 1969
 (day month year)
 Owner Julia Constr Ltd Address 14 Ashford Dr Richmond Ont
 (print in block letters)

Casing and Screen Record	Pumping Test
Inside diameter of casing <u>5"</u>	Static level <u>10'</u>
Total length of casing <u>18'</u>	Test-pumping rate <u>10</u> G.P.M.
Type of screen <u>-</u>	Pumping level <u>20'</u>
Length of screen <u>-</u>	Duration of test pumping <u>1 hr</u>
Depth to top of screen <u>-</u>	Water clear or cloudy at end of test <u>-</u>
Diameter of finished hole <u>5"</u>	Recommended pumping rate <u>5</u> G.P.M.
	with pump setting of <u>30</u> feet below ground surface

Well Log	Water Record			
	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
Overburden and Bedrock Record				
<u>hardpan + boulders</u>	<u>0'</u>	<u>9'</u>	<u>58'</u>	<u>fresh</u>
<u>limestone</u>	<u>9</u>	<u>60'</u>		

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

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

Drilling or Boring Firm Capital Water Supply Ltd.

Address 14 Ashford Dr Ottawa 6

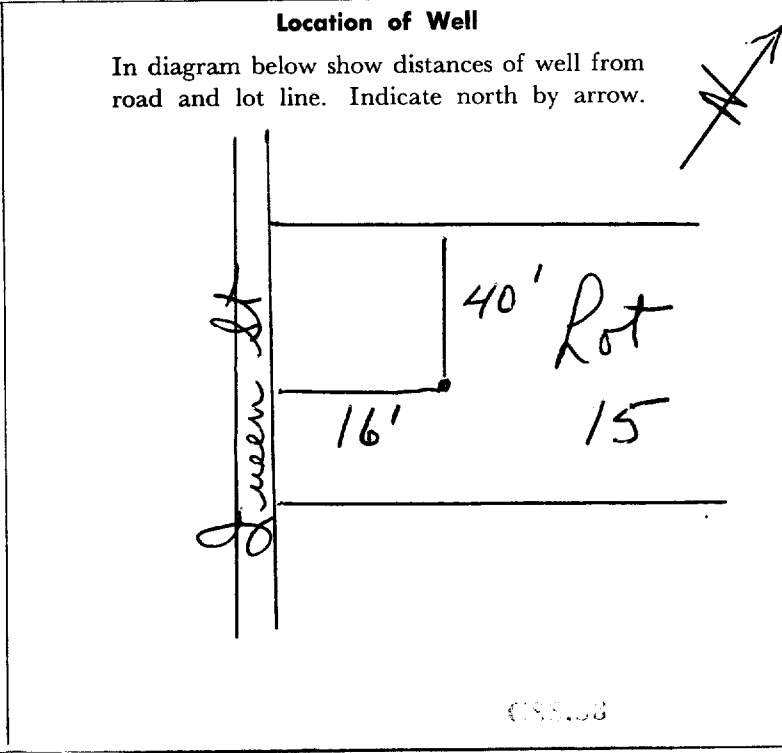
Licence Number 2557

Name of Driller or Borer M Kavanagh

Address -

Date Jan 8 1969

Walter Kavanagh
 (Signature of Licensed Drilling or Boring Contractor)





1509982

Water management in Ontario

DIVISION OF WATER RESOURCES

APR 2 1969

The Ontario Water Resources Commission Act

WATER WELL RECORD

18 4343 STO
4 5003210
4 0311

County or District Carleton Township, Village, Town or City Richmond
Con. 11 Lot 23 Date completed 11 Jan 1969
(day (month year)
Owner Julia Constr Ltd. Address Richmond Ont.
(print in block letters)

Casing and Screen Record	Pumping Test
Inside diameter of casing <u>5"</u>	Static level <u>8</u>
Total length of casing <u>18'</u>	Test-pumping rate <u>10</u> G.P.M.
Type of screen	Pumping level <u>20</u>
Length of screen	Duration of test pumping <u>1 hr</u>
Depth to top of screen	Water clear or cloudy at end of test
Diameter of finished hole <u>5"</u>	Recommended pumping rate <u>5</u> G.P.M.
	with pump setting of <u>30</u> feet below ground surface

Well Log	Water Record			
	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
Overburden and Bedrock Record				
<u>hardpan & boulders</u>	<u>0'</u>	<u>9'</u>	<u>57'</u>	<u>fresh</u>
<u>limestone</u>	<u>9</u>	<u>58'</u>		

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

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

Drilling or Boring Firm Capital Water Supply Ltd.

Address 14 Ashford Dr
Ottawa K

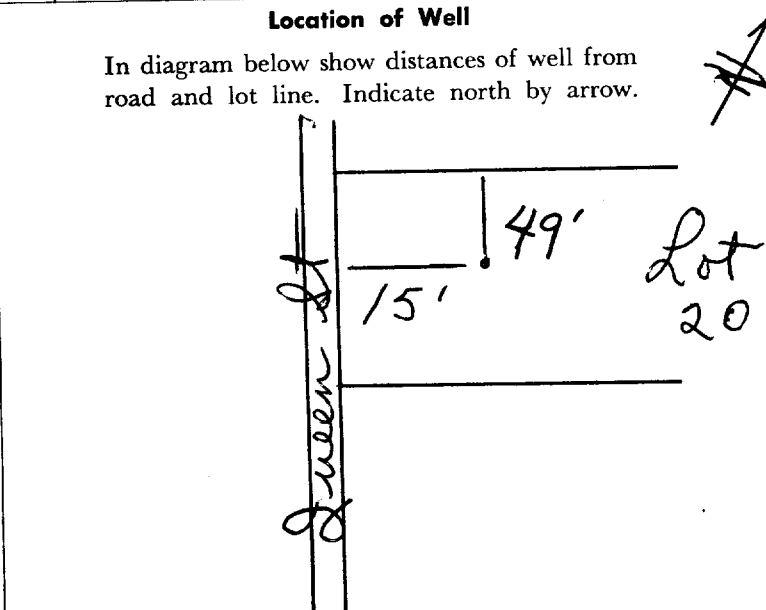
Licence Number 2857

Name of Driller or Borer Barry Acres

Address

Date 11 Jan 1969

Halter Kavanaugh
(Signature of Licensed Drilling or Boring Contractor)



18 434 240
 4 500 3330 CODED
 4 0310



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The Ontario Water Resources Commission Act

APR 2 1969

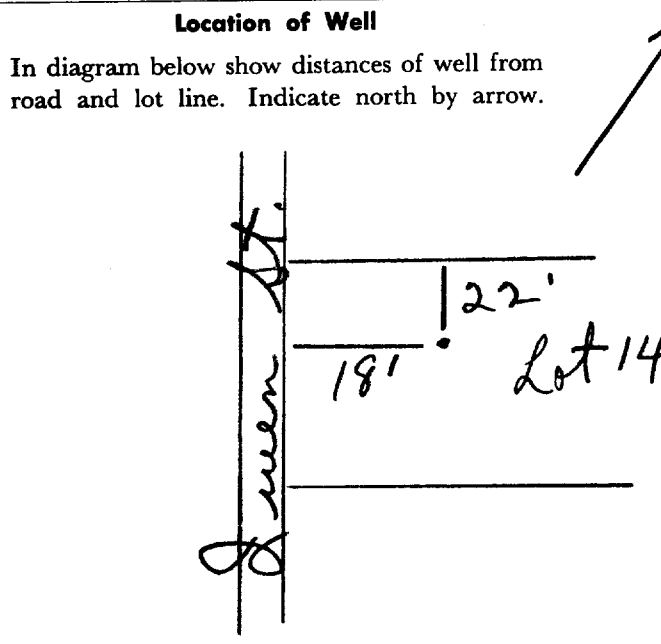
WATER WELL RECORD

County or District Carleton Township, Village, Town or City Richmond
 Con. III Lot 23 Date completed 16 Jan 1969
 (day month year)
 Owner Julia Constr Ltd. Address Richmond Ont.
 (print in block letters)

Casing and Screen Record	Pumping Test
Inside diameter of casing <u>5"</u>	Static level <u>5'</u>
Total length of casing <u>18'</u>	Test-pumping rate <u>10</u> G.P.M.
Type of screen	Pumping level <u>9'</u>
Length of screen	Duration of test pumping <u>1 hr</u>
Depth to top of screen	Water clear or cloudy at end of test
Diameter of finished hole <u>5"</u>	Recommended pumping rate <u>5</u> G.P.M.
	with pump setting of <u>30</u> feet below ground surface

Well Log	Water Record			
	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
Overburden and Bedrock Record				
<u>hardpan + boulders</u>	<u>0'</u>	<u>10'</u>	<u>60</u>	<u>fresh</u>
<u>limestone</u>	<u>10'</u>	<u>61'</u>		

For what purpose(s) is the water to be used?
new house
 Is well on upland, in valley, or on hillside?
 Drilling or Boring Firm Capital Water Supply Ltd.
 Address 14 Ashford Dr
Ottawa 6
 Licence Number 3216
 Name of Driller or Borer H Mains
 Address
 Date Jan 16 1969
Maister Kavanagh
 (Signature of Licensed Drilling or Boring Contractor)





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CODED

18 434320
4 57003430
4 0308

The Ontario Water Resources Commission Act

APR 2 1969

WATER WELL RECORD

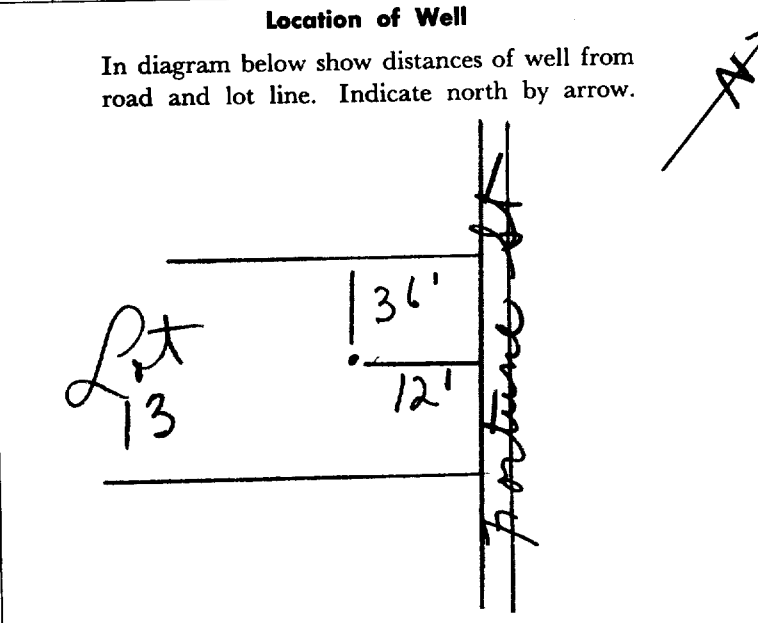
County or District 25th Carleton Township, Village, Town or City Richmond
Date completed 14 Jan 1969
(day) (month) (year)
Address 3716 Richmond Rd.

Casing and Screen Record
Inside diameter of casing 5"
Total length of casing 20'
Type of screen
Length of screen
Depth to top of screen
Diameter of finished hole 5"

Pumping Test
Static level 8'
Test-pumping rate 10 G.P.M.
Pumping level 25
Duration of test pumping 1 hr
Water clear or cloudy at end of test
Recommended pumping rate 5 G.P.M.
with pump setting of 40 feet below ground surface

Well Log	Water Record			
	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
Overburden and Bedrock Record				
<u>hardpan & boulders</u>	<u>0'</u>	<u>16'</u>	<u>58'</u>	<u>fresh</u>
<u>limestone</u>	<u>16'</u>	<u>60'</u>		

For what purpose(s) is the water to be used?
new house
Is well on upland, in valley, or on hillside?
Drilling or Boring Firm Capital Water Supply Ltd.
Address 14 Ashford Dr
Ottawa 6
Licence Number 3216
Name of Driller or Borer H Mains
Address
Date Jan 14 1969
Thaxter Kavanagh
(Signature of Licensed Drilling or Boring Contractor)



18 434430

4 5003305

4 0309

25

CODED



1509985

The Ontario Water Resources Commission Act

WATER WELL RECORD

County or District

Carleton

Township, Village, Town or City

Richmond

Con.

111

Lot

23

Date completed

14

Jan

1969

Owner

Julia Constr Ltd
(print in block letters)

Address

Richmond Ont.

Casing and Screen Record

Inside diameter of casing 5'

Total length of casing 27'

Type of screen

Length of screen

Depth to top of screen

Diameter of finished hole 5"

Pumping Test

Static level 15'

Test-pumping rate 10' G.P.M.

Pumping level 20'

Duration of test pumping 1 hr

Water clear or cloudy at end of test

Recommended pumping rate 5' G.P.M.

with pump setting of 30 feet below ground surface

Well Log

Overburden and Bedrock Record

hardpan & boulders

limestone

Water Record

From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
0'	23'	61'	fresh
23'	62'		

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

new house

Is well on upland, in valley or on hillside?

Drilling or Boring Firm

Capital Water Supply Ltd

Address

14 Ashford Dr
Ottawa 6

Licence Number

3216

Name of Driller or Borer

M Kavanagh

Address

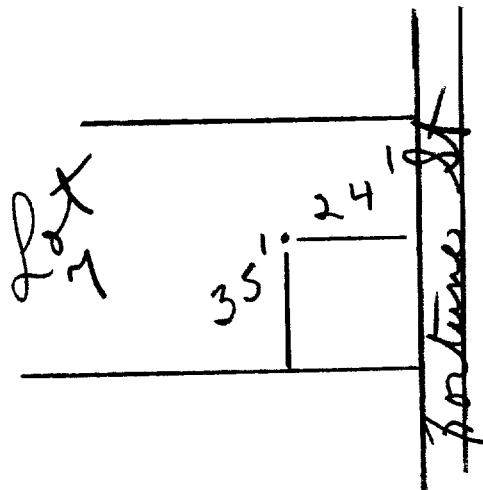
Date

Jan 14 1969

Thatcher Kavanagh
(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.





316/4F

1510076-1

1824342310
47501013380
5R 013'05
25

The Ontario Water Resources Commission Act

WATER WELL RECORD

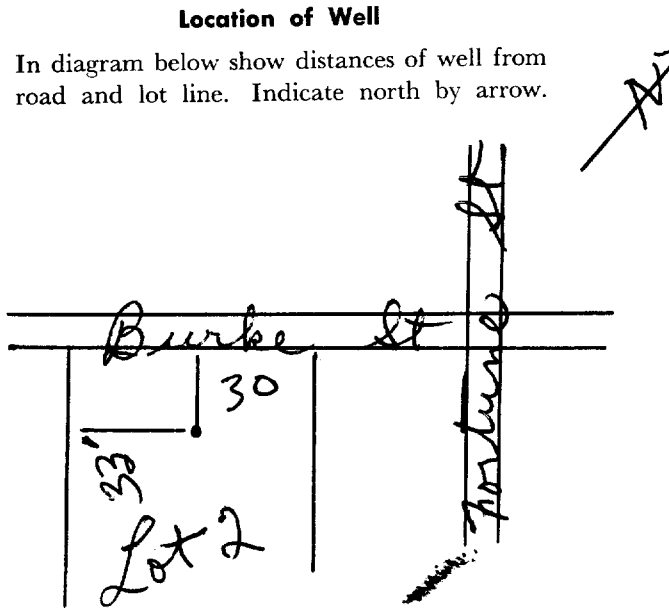
County or District Carl Township, Village, Town or City Richmond
Con. TL Lot 23 Date completed 16 May 1969
(day month year)
Melrose Ave
Ottawa

Casing and Screen Record
SB
Inside diameter of casing 5"
Total length of casing 22'
Type of screen
Length of screen
Depth to top of screen
Diameter of finished hole 4 7/8

Pumping Test
Test-pumping rate 20' G.P.M.
Pumping level 10
38'
Duration of test pumping 1 hr
Water clear or cloudy at end of test
Recommended pumping rate 5 G.P.M.
with pump setting of 40 feet below ground surface

Well Log	Water Record			
	Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found
<u>sand</u>	<u>0'</u>	<u>7'</u>	<u>53</u>	<u>fresh</u>
<u>clay</u>	<u>7'</u>	<u>12'</u>		
<u>hardpan & boulders</u>	<u>12'</u>	<u>18'</u>		
<u>limestone</u>	<u>18'</u>	<u>54</u>		

For what purpose(s) is the water to be used? new house
Is well on upland, in valley or on hillside?
Drilling or Boring Firm Capital Water Supply Ltd
Address 14 Ashford Dr
Ottawa 6
Licence Number 3216
Name of Driller or Borer B Acres
Address
Date 16 May 1969
Shatter Kavanagh
(Signature of Licensed Drilling or Boring Contractor)





WATER WELL RECORD

Water management in Ontario

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

11

1510268

MUNICIP. 15701

CON.

COUNTY OR DISTRICT Carl TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE Richmond CON., BLOCK, TRACT, SURVEY, ETC. LOT 25-27

OWNER (SURNAME FIRST) Carl ADDRESS Richmond DATE COMPLETED 48-53 DAY 14 MO 07 YR 69

OWNER (SURNAME FIRST) Julia Constr Ltd ADDRESS Richmond Ont. DATE COMPLETED 48-53 DAY 14 MO 07 YR 69

ZONE EASTING NORTHING RC. ELEVATION RC. BASIN CODE
 U T M 10 18 434475 17 5003240 24 4 0308 25 5 25 30 31

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
grey	sand	clay	firm	0'	12'
grey	hardpan	boulders	hard	12'	22'
blue	limestone		hard	22'	60'

31 001220905 0020221413 0060315

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
10-13 <u>0058</u>	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
15-18	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
20-23	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
25-28	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
30-33	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
5" <u>05"</u>	1 <input checked="" type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input checked="" type="checkbox"/> OPEN HOLE	188	0	26
5" <u>05"</u>	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input checked="" type="checkbox"/> OPEN HOLE			60
	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE			0060

SCREEN

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

MATERIAL AND TYPE _____ DEPTH TO TOP OF SCREEN _____ FEET

61 PLUGGING & SEALING RECORD

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

71 PUMPING TEST

PUMPING TEST METHOD PUMP BAILER

PUMPING RATE 0010 GPM. DURATION OF PUMPING 01 HOURS 00 MINS.

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING			
19-21 <u>005</u> FEET	22-24 <u>010</u> FEET	15 MINUTES 26-28	30 MINUTES 29-31	45 MINUTES 32-34	60 MINUTES 35-37

IF FLOWING, GIVE RATE _____ GPM. PUMP INTAKE SET AT _____ FEET WATER AT END OF TEST _____ FEET

RECOMMENDED PUMP TYPE SHALLOW DEEP RECOMMENDED PUMP SETTING 020 FEET RECOMMENDED PUMPING RATE 0005 GPM.

50-53 002.0 GPM./FT. SPECIFIC CAPACITY

LOCATION OF WELL

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

15' Lot 3
15' Parcel 19
Fortune St.

DRILLERS REMARKS:

FINAL STATUS OF WELL

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

WATER USE 01

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

METHOD OF DRILLING

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

CONTRACTOR

NAME OF WELL CONTRACTOR Capital Water Supply LICENCE NUMBER 3216
 ADDRESS 14 Ashford Dr Ottawa
 NAME OF DRILLER OR BORER J Scott LICENCE NUMBER _____
 SIGNATURE OF CONTRACTOR Walter Lavanagh SUBMISSION DATE _____ MO _____ YR _____

OFFICE USE ONLY

DATA SOURCE 1 CONTRACTOR 1503 DATE RECEIVED 301069
 DATE OF INSPECTION _____ INSPECTOR Phillips PIP
 REMARKS:



WATER WELL RECORD

Water management in Ontario 1. PRINT ONLY IN SPACES PROVIDED 2. CHECK CORRECT BOX WHERE APPLICABLE

11 1510285 15701

COUNTY OR DISTRICT: Carl TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: Richmond CON., BLOCK, TRACT, SURVEY, ETC.: _____ LOT: 25-27

OWNER (SURNAME FIRST): Julia Const Ltd ADDRESS: Richmond Ont. DATE COMPLETED: DAY 21 MO 07 YR 69

ZONE: 18 EASTING: 434350 NORTHING: 5003470 RC: 4 ELEVATION: 0310 RC: 4 BASIN CODE: 25

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
<u>brown</u>	<u>clay</u>	<u>sand</u>	<u>gritty</u>	<u>0'</u>	<u>10'</u>
<u>grey</u>	<u>hardpan</u>		<u>hard</u>	<u>10'</u>	<u>17'</u>
<u>grey</u>	<u>limestone</u>		<u>hard</u>	<u>17'</u>	<u>61'</u>

31 001000509 0017214 0061215

32 _____

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
<u>060</u>	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
15-18	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
20-23	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
25-28	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
30-33	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET
<u>05</u>	1 <input checked="" type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE	<u>188</u>	<u>0' 00" 20'</u>
<u>5"</u>	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input checked="" type="checkbox"/> OPEN HOLE		<u>20' 61'</u>
17-18	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE		<u>0061</u>
24-29	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE		27-30

61 PLUGGING & SEALING RECORD

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

71 PUMPING TEST

PUMPING TEST METHOD: PUMP 2 BAILER

PUMPING RATE: 0010 GPM. DURATION OF PUMPING: 01 HOURS 00 MINS.

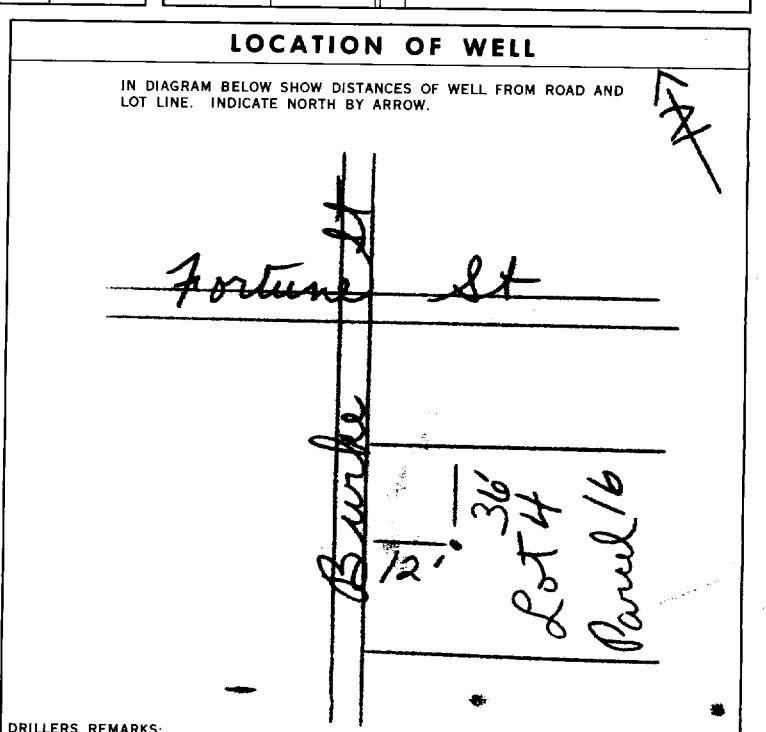
STATIC LEVEL: 010 FEET. WATER LEVEL END OF PUMPING: 023 FEET.

WATER LEVELS DURING: 15 MINUTES: _____ 30 MINUTES: _____ 45 MINUTES: _____ 60 MINUTES: _____

IF FLOWING, GIVE RATE: _____ GPM. PUMP INTAKE SET AT: _____ FEET. WATER AT END OF TEST: _____ FEET.

RECOMMENDED PUMP TYPE: SHALLOW DEEP. RECOMMENDED PUMP SETTING: 030 FEET. RECOMMENDED PUMPING RATE: 0005 GPM.

50-53: 000.8 GPM./FT. SPECIFIC CAPACITY



FINAL STATUS OF WELL

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

WATER USE

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

METHOD OF DRILLING

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

NAME OF WELL CONTRACTOR: Capital Water Supply LICENCE NUMBER: 3216

ADDRESS: 14 Ashford Dr Ottawa

NAME OF DRILLER OR BORER: J Scott LICENCE NUMBER: _____

SIGNATURE OF CONTRACTOR: Walter Kavanagh SUBMISSION DATE: _____

OFFICE USE ONLY

DATA SOURCE: 1 CONTRACTOR: 1503 DATE RECEIVED: 301069

DATE OF INSPECTION: _____ INSPECTOR: Phillip PIP

REMARKS: _____



WATER WELL RECORD

3164f

Water management in Ontario

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

1510630-
MUNICIP. 15,701
CON. 15
22 23 24
11
3 9
10 14
15
25-27
COUNTRY OR DISTRICT *Carleton* TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE *Richmond* CON., BLOCK, TRACT, SURVEY, ETC. *Pt. 3* LOT *13*
DATE COMPLETED *24* DAY *24* MO. *Mar* YR. *70*
ING *03565* RC *4* ELEVATION *0308* RC *4* BASIN CODE *25*

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
<i>brown</i>	<i>clay</i>	<i>stones</i>		<i>0</i>	<i>17</i>
<i>grey</i>	<i>limestone</i>		<i>hard</i>	<i>17</i>	<i>70</i>

31 *001760512* *0021315*
32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER			
<i>0070</i>	<input checked="" type="checkbox"/> FRESH	<input type="checkbox"/> SALTY	<input type="checkbox"/> SULPHUR	<input type="checkbox"/> MINERAL
15-18	<input type="checkbox"/> FRESH	<input type="checkbox"/> SALTY	<input type="checkbox"/> SULPHUR	<input type="checkbox"/> MINERAL
20-23	<input type="checkbox"/> FRESH	<input type="checkbox"/> SALTY	<input type="checkbox"/> SULPHUR	<input type="checkbox"/> MINERAL
25-28	<input type="checkbox"/> FRESH	<input type="checkbox"/> SALTY	<input type="checkbox"/> SULPHUR	<input type="checkbox"/> MINERAL
30-33	<input type="checkbox"/> FRESH	<input type="checkbox"/> SALTY	<input type="checkbox"/> SULPHUR	<input type="checkbox"/> MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
<i>05</i>	<input checked="" type="checkbox"/> STEEL <input type="checkbox"/> GALVANIZED <input type="checkbox"/> CONCRETE <input type="checkbox"/> OPEN HOLE	<i>1.88</i>	<i>0</i>	<i>20</i>
17-18	<input type="checkbox"/> STEEL <input type="checkbox"/> GALVANIZED <input type="checkbox"/> CONCRETE <input checked="" type="checkbox"/> OPEN HOLE			<i>20-23</i>
24-25	<input type="checkbox"/> STEEL <input type="checkbox"/> GALVANIZED <input type="checkbox"/> CONCRETE <input type="checkbox"/> OPEN HOLE			<i>27-30</i>

SCREEN

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

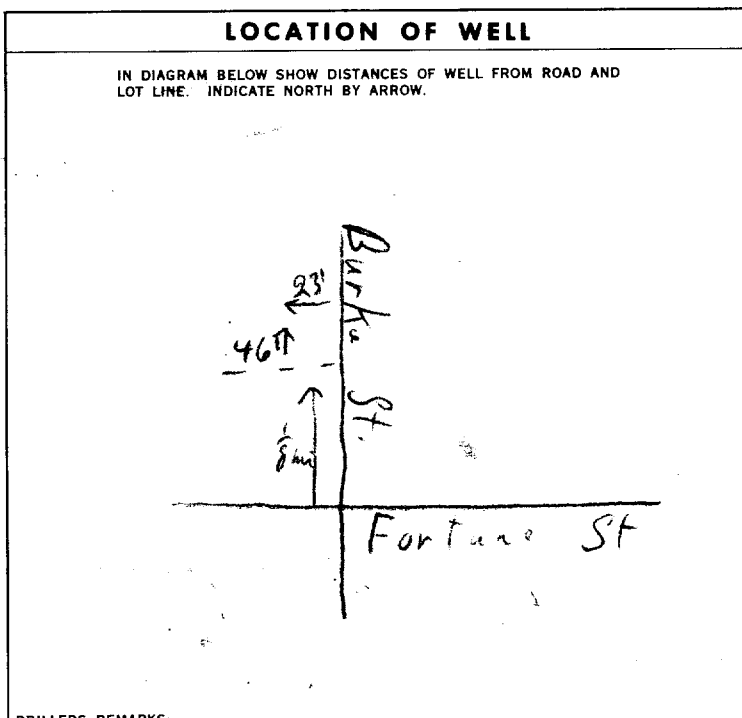
MATERIAL AND TYPE: _____ DEPTH TO TOP OF SCREEN: _____ FEET

61 PLUGGING & SEALING RECORD

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

71 PUMPING TEST

PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
<input type="checkbox"/> PUMP <input checked="" type="checkbox"/> BAILER	<i>0007</i> GPM	<i>01</i> HOURS <i>00</i> MINS.
STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING
<i>004</i> FEET	<i>035</i> FEET	15 MINUTES <i>030</i> FEET 30 MINUTES <i>035</i> FEET 45 MINUTES <i>035</i> FEET 60 MINUTES <i>035</i> FEET
IF FLOWING, GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST
	<i>040</i> GPM	<input type="checkbox"/> CLEAR <input checked="" type="checkbox"/> CLOUDY
RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING	RECOMMENDED PUMPING RATE
<input type="checkbox"/> SHALLOW <input checked="" type="checkbox"/> DEEP	<i>040</i> FEET	<i>0005</i> GPM
50-53 <i>000.2</i> GPM./FT. SPECIFIC CAPACITY		



FINAL STATUS OF WELL

WATER USE *01*

METHOD OF DRILLING

DRILLERS REMARKS:

OFFICE USE ONLY

DATA SOURCE <i>1</i>	CONTRACTOR <i>3644</i>	DATE RECEIVED <i>030770</i>
DATE OF INSPECTION		INSPECTOR <i>Km</i>
REMARKS:		

CONTRACTOR

NAME OF WELL CONTRACTOR *Henry Mours Well Drilling* LICENCE NUMBER *3644*

ADDRESS *Box 326, Richmond Ont.*

NAME OF DRILLER OR BORER *Henry Mours* LICENCE NUMBER

SIGNATURE OF CONTRACTOR *Henry Mours* SUBMISSION DATE *28* MO. *Mar* YR. *70*



The Ontario Water Resources Commission Act WATER WELL RECORD

3164F

Water management in Ontario

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

11
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1511144

MUNICIP. 15701

CON.

COUNTRY OR DISTRICT <i>Carl</i>	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE <i>Richmond</i>	CON., BLOCK, TRACT, SURVEY, ETC. 3 9	LOT 25-27
OWNER (SURNAME FIRST) <i>Star Quality Homes</i>	ADDRESS <i>RR # Stittsville Ont</i>	DATE COMPLETED DAY <i>30</i> MO. <i>04</i> YR. <i>71</i>	
ZONE <i>21</i>	EASTING <i>18</i>	NORTHING <i>434338</i>	RC. <i>5003690</i>
U <i>1</i>	T <i>10</i>	M <i>17</i>	RC. <i>4</i>
		ELEVATION <i>0310</i>	RC. <i>5</i>
		BASIN CODE <i>25</i>	

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
<i>brown</i>	<i>clay</i>		<i>packed</i>	<i>0</i>	<i>15</i>
<i>blue</i>	<i>limestone</i>		<i>hard</i>	<i>15</i>	<i>80</i>

31	<i>0015695</i>	<i>0080315</i>
32		

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
10-13	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
15-18	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
20-23	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
25-28	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
30-33	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
<i>3 5/8</i>	<input checked="" type="checkbox"/> STEEL	<i>188</i>	<i>0</i>	<i>22</i>
<i>05</i>	<input type="checkbox"/> GALVANIZED <input type="checkbox"/> CONCRETE <input checked="" type="checkbox"/> OPEN HOLE		<i>22</i>	<i>80</i>
<i>05</i>	<input type="checkbox"/> STEEL <input type="checkbox"/> GALVANIZED <input type="checkbox"/> CONCRETE <input checked="" type="checkbox"/> OPEN HOLE			<i>0080</i>
	<input type="checkbox"/> STEEL <input type="checkbox"/> GALVANIZED <input type="checkbox"/> CONCRETE <input type="checkbox"/> OPEN HOLE			

SCREEN

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

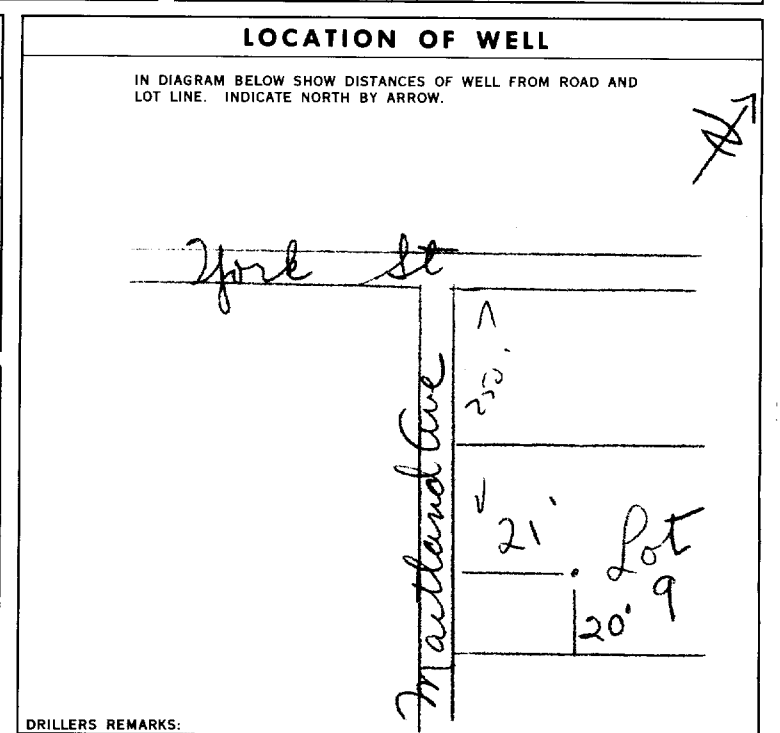
61 PLUGGING & SEALING RECORD

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

71 PUMPING TEST

PUMPING TEST METHOD 1 <input type="checkbox"/> PUMP 2 <input checked="" type="checkbox"/> TRAILER	PUMPING RATE <i>0010</i> GPM.	DURATION OF PUMPING 15-16 HOURS <i>00</i> 17-18 MINS.
STATIC LEVEL <i>006</i> FEET	WATER LEVEL END OF PUMPING <i>010</i> FEET	WATER LEVELS DURING PUMPING 15 MINUTES <i>010</i> FEET 30 MINUTES <i>010</i> FEET 45 MINUTES <i>010</i> FEET 60 MINUTES <i>010</i> FEET
IF FLOWING, GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST 1 <input checked="" type="checkbox"/> CLEAR 2 <input type="checkbox"/> CLOUDY
RECOMMENDED PUMP TYPE 1 <input checked="" type="checkbox"/> SHALLOW 2 <input type="checkbox"/> DEEP	RECOMMENDED PUMP SETTING <i>030</i> FEET	RECOMMENDED PUMPING RATE <i>0005</i> GPM.

50-53 *002.5* GPM./FT. SPECIFIC CAPACITY



FINAL STATUS OF WELL

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

WATER USE

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

METHOD OF DRILLING

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

CONTRACTOR

NAME OF WELL CONTRACTOR
Capital Water Supply LICENCE NUMBER *1558*
ADDRESS
14 Ashford Dr Ottawa
NAME OF DRILLER OR OPERATOR
J Moore LICENCE NUMBER
SIGNATURE OF CONTRACTOR
Walter Lavanagh SUBMISSION DATE
DAY _____ MO. _____ YR. _____

OFFICE USE ONLY

DATA SOURCE *1* 58 CONTRACTOR *1558* DATE RECEIVED *010671* 63-68 80
DATE OF INSPECTION _____ INSPECTOR
hm
REMARKS:
PX
WI



The Ontario Water Resources Commission Act WATER WELL RECORD

31645

Water management in Ontario 1. PRINT ONLY IN SPACES PROVIDED 2. CHECK CORRECT BOX WHERE APPLICABLE

COUNTY OR DISTRICT: Carl TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: Richmond CON., BLOCK, TRACT, SURVEY, ETC.: 1511146 LOT: 25-27

OWNER (SURNAME FIRST): Star Quality Homes ADDRESS: R R #2 Stittville Ont DATE COMPLETED: DAY 06 MO. 05 YR. 71

ZONE: U 18 T 18 M 10 NORTHING: 3003610 ELEVATION: 0310 BASIN CODE: 25

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
grey	shell	sandy gravel	loose	0	6
brown	clay		packed	6	9
blue	limestone		hard	9	76

31 00002911109 0009005 0070315

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0074	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
5.8	1 <input checked="" type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE	1.88	0	22
05	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input checked="" type="checkbox"/> OPEN HOLE		22	76
	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE			20-23
	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE			0076

61 PLUGGING & SEALING RECORD

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

71 PUMPING TEST

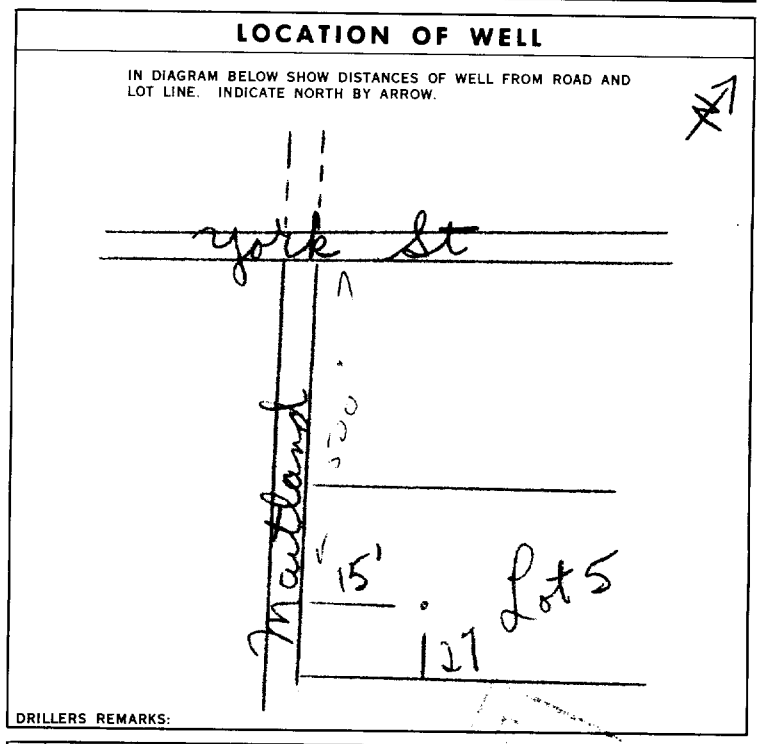
PUMPING TEST METHOD: PUMP 2 BAILER

PUMPING RATE: _____ GPM. DURATION OF PUMPING: _____ HOURS _____ MINS.

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING PUMPING			
19-21	22-24	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
FEET	FEET	FEET	FEET	FEET	FEET
004	006	006	006	006	006

IF FLOWING, GIVE RATE: _____ GPM. PUMP INTAKE SET AT: _____ FEET. WATER AT END OF TEST: _____ FEET.

RECOMMENDED PUMP TYPE: SHALLOW DEEP. RECOMMENDED PUMP SETTING: 030 FEET. RECOMMENDED PUMPING RATE: 0005 GPM.



FINAL STATUS OF WELL

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

WATER USE

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

METHOD OF DRILLING

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

CONTRACTOR

NAME OF WELL CONTRACTOR: Capital Water Supply LICENCE NUMBER: 1558
ADDRESS: 14 Ashford Dr Ottawa 6
NAME OF DRILLER OR Borer: B Burrows LICENCE NUMBER: _____
SIGNATURE OF CONTRACTOR: Walter Swanagh SUBMISSION DATE: _____

OFFICE USE ONLY

DATA SOURCE: 1 CONTRACTOR: 1558 DATE RECEIVED: 010671
DATE OF INSPECTION: _____ INSPECTOR: km
REMARKS: _____



WATER WELL RECORD

Water management in Ontario 1. PRINT ONLY IN SPACES PROVIDED
2. CHECK CORRECT BOX WHERE APPLICABLE

11
1 2

1511395

MUNICIP. 15701

CON.

COUNTY OR DISTRICT: Carleton TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: Richmond CON., BLOCK, TRACT, SURVEY, ETC.: _____ LOT: 25-27

OWNER (SURNAME FIRST): Star Quality Homes Ltd ADDRESS: RR2 Stittsville Ont. DATE COMPLETED: 48-53
DAY: 11 MO: 08 YR: 71

ZONE: 21 EASTING: 434300 NORTHING: 51003720 ELEVATION: 0308 BASIN CODE: 25

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
<u>Grey</u>	<u>Clay</u>	<u>stones</u>	<u>soft</u>	<u>0</u>	<u>16</u>
<u>Grey</u>	<u>limestone</u>		<u>hard</u>	<u>16</u>	<u>64</u>

31 001620512 0064215

32 _____

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
10-13	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
15-18	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
20-23	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
25-28	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
30-33	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
<u>5 1/2</u>	1 <input checked="" type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input checked="" type="checkbox"/> OPEN HOLE		<u>0</u>	<u>21</u>
<u>05</u>	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input checked="" type="checkbox"/> OPEN HOLE			<u>0021</u>
	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE			<u>0064</u>

SCREEN

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

MATERIAL AND TYPE: _____ DEPTH TO TOP OF SCREEN: _____

61 PLUGGING & SEALING RECORD

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

71 PUMPING TEST

PUMPING TEST METHOD: 1 PUMP 2 RAILER

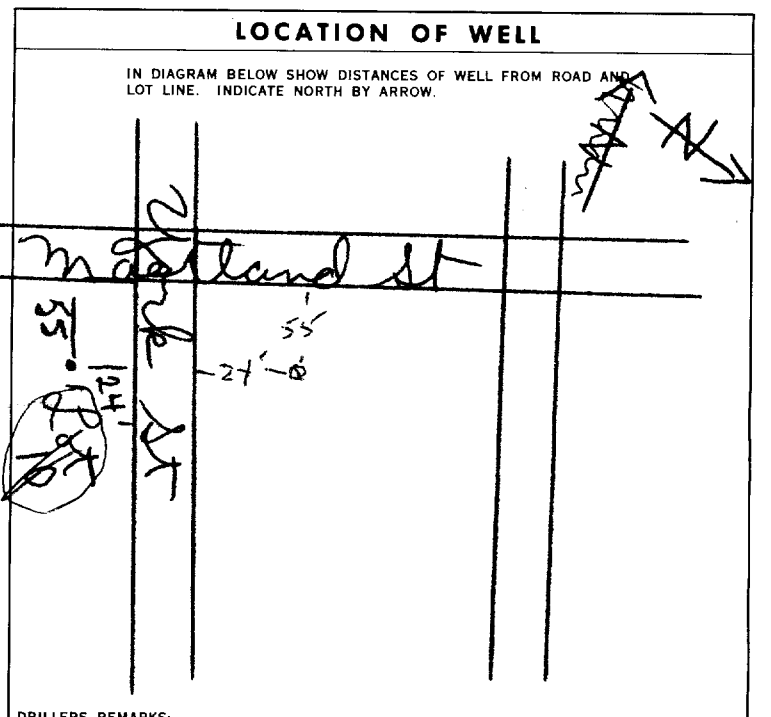
PUMPING RATE: 0010 GPM. DURATION OF PUMPING: 01 HOURS 00 MINS.

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING PUMPING			
<u>008</u> FEET	<u>012</u> FEET	15 MINUTES <u>012</u> FEET	30 MINUTES <u>012</u> FEET	45 MINUTES <u>012</u> FEET	60 MINUTES <u>012</u> FEET

IF FLOWING, GIVE RATE: _____ PUMP INTAKE SET AT: _____ WATER AT END OF TEST: _____

RECOMMENDED PUMP TYPE: SHALLOW DEEP. RECOMMENDED PUMP SETTING: 030 FEET. RECOMMENDED PUMPING RATE: 0005 GPM.

50-53 002.5 GPM./FT. SPECIFIC CAPACITY



FINAL STATUS OF WELL

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

WATER USE

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

METHOD OF DRILLING

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

CONTRACTOR

NAME OF WELL CONTRACTOR: Capital Water Supply Ltd LICENCE NUMBER: 1558
ADDRESS: 14 Ashford Rd. Ottawa
NAME OF DRILLER OR BORER: E. Maurice LICENCE NUMBER: _____
SIGNATURE OF CONTRACTOR: Kalte Kwanagh SUBMISSION DATE: DAY 11 MO: 8 YR: 71

OFFICE USE ONLY

DATA SOURCE: 1 CONTRACTOR: 1558 DATE RECEIVED: 100971
DATE OF INSPECTION: _____ INSPECTOR: Km
REMARKS: _____
P: Km
WI



WATER WELL RECORD

Water management in Ontario 1. PRINT ONLY IN SPACES PROVIDED
2. CHECK CORRECT BOX WHERE APPLICABLE

11 1511398 15701

COUNTY OR DISTRICT: CARLETON TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: Richmond CON., BLOCK, TRACT, SURVEY, ETC.: LOT 25-27

OWNER (SURNAME FIRST): STAR QUALITY HOMES ADDRESS: STITTSVILLE DATE COMPLETED: 06/08/71

ZONE: 21 U T M: 10 12 17 18 24 25 26 30 31 EASTING: 434380 NORTHING: 5003630 RC: 4 ELEVATION: 0308 RC: 4 BASIN CODE: 25

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
BROWN	FILL		SOFT	0	4
GREY	CLAY	STONES	SOFT	4	12
GREY	LIMESTONE		HARD	12	65

31 0094001 001220912 0065215

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0065	<input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 14 <input checked="" type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
15-18	<input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 19 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
20-23	<input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 24 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
25-28	<input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 29 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
30-33	<input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 34 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
05	<input checked="" type="checkbox"/> STEEL <input type="checkbox"/> GALVANIZED <input type="checkbox"/> CONCRETE <input type="checkbox"/> OPEN HOLE	2.44	0	21
8	<input type="checkbox"/> STEEL <input type="checkbox"/> GALVANIZED <input type="checkbox"/> CONCRETE <input checked="" type="checkbox"/> OPEN HOLE		21	65
05	<input type="checkbox"/> STEEL <input type="checkbox"/> GALVANIZED <input type="checkbox"/> CONCRETE <input checked="" type="checkbox"/> OPEN HOLE			0065
24-25	<input type="checkbox"/> STEEL <input type="checkbox"/> GALVANIZED <input type="checkbox"/> CONCRETE <input type="checkbox"/> OPEN HOLE			27-30

SCREEN

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

MATERIAL AND TYPE: DEPTH TO TOP OF SCREEN: 41-44 FEET

61 PLUGGING & SEALING RECORD

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

71 PUMPING TEST

PUMPING TEST METHOD: PUMP BAILER

PUMPING RATE: 0018 GPM DURATION OF PUMPING: 01 HOURS 00 MINS.

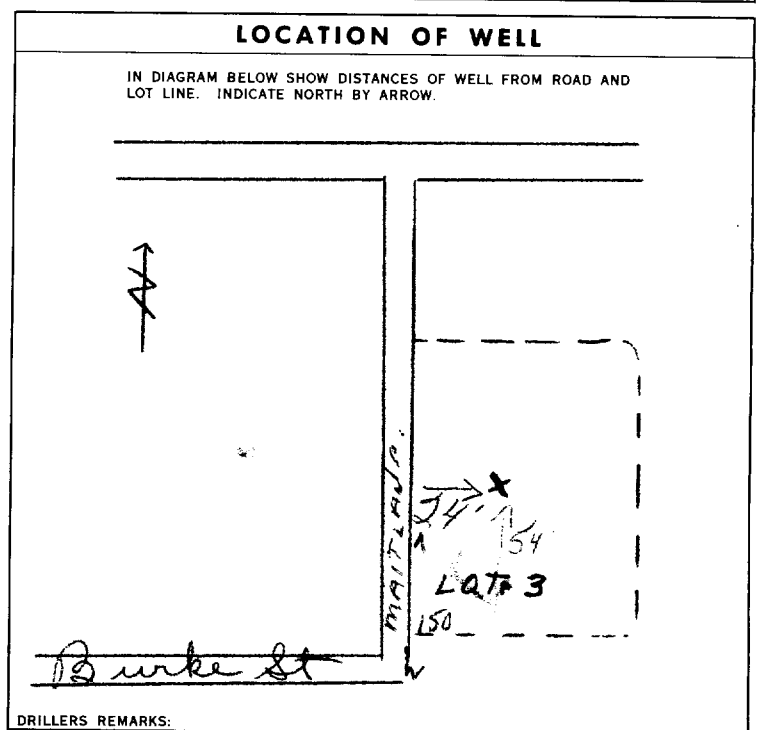
WATER LEVELS DURING PUMPING:

15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
010'	010'	010'	010'

RECOMMENDED PUMP TYPE: SHALLOW DEEP

RECOMMENDED PUMP SETTING: 030 FEET

RECOMMENDED PUMPING RATE: 0005 GPM.



FINAL STATUS OF WELL

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

WATER USE

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

METHOD OF DRILLING

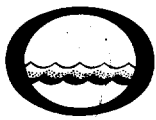
CABLE TOOL BORING
 ROTARY (CONVENTIONAL) DIAMOND
 ROTARY (REVERSE) JETTING
 ROTARY (AIR) DRIVING
 AIR PERCUSSION

CONTRACTOR

NAME OF WELL CONTRACTOR: CAPITAL WATER SUPPLY LICENCE NUMBER: 1558
 ADDRESS: 14 ASHFORD
 NAME OF DRILLER OR BORER: J. MOORE LICENCE NUMBER:
 SIGNATURE OF CONTRACTOR: Submission Date: 6 MO. 8 YR. 71

OFFICE USE ONLY

DATA SOURCE: 1 CONTRACTOR: 1558 DATE RECEIVED: 100971
 DATE OF INSPECTION: INSPECTOR: P
 REMARKS: WI



The Ontario Water Resources Commission Act

WATER WELL RECORD

31647

Water management in Ontario 1. PRINT ONLY IN SPACES PROVIDED

2. CHECK CORRECT BOX WHERE APPLICABLE

11 1511399 15701

COUNTY OR DISTRICT: CARLETON TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: Richmond CON., BLOCK, TRACT, SURVEY, ETC.: STITTSVILLE LOT: 25-27

OWNER (SURNAME FIRST): STAR QUALITY HOMES ADDRESS: STITTSVILLE DATE COMPLETED: 06 MO 08 YR 71

ZONE: 21 EASTING: 434358 NORTHING: 5003685 ELEVATION: 0306 BASIN CODE: 28

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
Brown	Clay	Silt	Packed	0'	6'
Grey	Gravel	Stones	Packed	6'	9'
Grey	lime Stone		Hard	9'	66'

31 32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0065	<input checked="" type="checkbox"/> FRESH <input type="checkbox"/> SALTY <input type="checkbox"/> SULPHUR <input type="checkbox"/> MINERAL
	<input type="checkbox"/> FRESH <input type="checkbox"/> SALTY <input type="checkbox"/> SULPHUR <input type="checkbox"/> MINERAL
	<input type="checkbox"/> FRESH <input type="checkbox"/> SALTY <input type="checkbox"/> SULPHUR <input type="checkbox"/> MINERAL
	<input type="checkbox"/> FRESH <input type="checkbox"/> SALTY <input type="checkbox"/> SULPHUR <input type="checkbox"/> MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
05	<input checked="" type="checkbox"/> STEEL <input type="checkbox"/> GALVANIZED <input type="checkbox"/> CONCRETE <input type="checkbox"/> OPEN HOLE	2.844	0	13.46
8	<input checked="" type="checkbox"/> STEEL <input type="checkbox"/> GALVANIZED <input type="checkbox"/> CONCRETE <input checked="" type="checkbox"/> OPEN HOLE		21.4	66
05	<input type="checkbox"/> STEEL <input type="checkbox"/> GALVANIZED <input type="checkbox"/> CONCRETE <input checked="" type="checkbox"/> OPEN HOLE			0066
24-25	<input type="checkbox"/> STEEL <input type="checkbox"/> GALVANIZED <input type="checkbox"/> CONCRETE <input type="checkbox"/> OPEN HOLE			27-30

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)
10-13	
18-21	
26-29	

71 PUMPING TEST

PUMPING TEST METHOD: PUMP BAILER

PUMPING RATE: 0018 GPM. DURATION OF PUMPING: 01 HOURS 00 MINS.

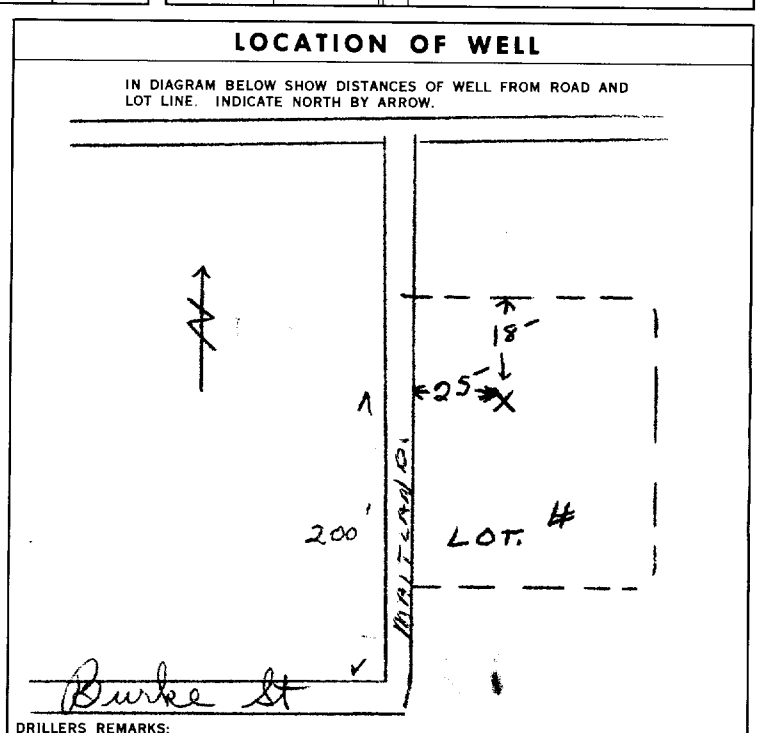
STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING	RECOVERY
004	006	15 MINUTES: 006, 30 MINUTES: 006, 45 MINUTES: 006, 60 MINUTES: 006	<input checked="" type="checkbox"/> PUMPING <input type="checkbox"/> RECOVERY

IF FLOWING, GIVE RATE: 009.0 GPM./FT. SPECIFIC CAPACITY

RECOMMENDED PUMP TYPE: SHALLOW DEEP

RECOMMENDED PUMP SETTING: 030 FEET

RECOMMENDED PUMPING RATE: 0005 GPM.



FINAL STATUS OF WELL

WATER SUPPLY OBSERVATION WELL TEST HOLE RECHARGE WELL

ABANDONED, INSUFFICIENT SUPPLY ABANDONED, POOR QUALITY UNFINISHED

WATER USE

DOMESTIC STOCK IRRIGATION INDUSTRIAL OTHER

COMMERCIAL MUNICIPAL PUBLIC SUPPLY COOLING OR AIR CONDITIONING NOT USED

METHOD OF DRILLING

CABLE TOOL ROTARY (CONVENTIONAL) ROTARY (REVERSE) ROTARY (AIR) AIR PERCUSSION

BORING DIAMOND JETTING DRIVING

CONTRACTOR

NAME OF WELL CONTRACTOR: CAPITAL WATER SUPPLY LICENCE NUMBER: 1558

ADDRESS: 14 ASHFORD

NAME OF DRILLER OR BORER: Jean Maurice LICENCE NUMBER: [blank]

SIGNATURE OF CONTRACTOR: [Signature] SUBMISSION DATE: 6 MO 8 YR 71

OFFICE USE ONLY

DATA SOURCE: 1 CONTRACTOR: 1558 DATE RECEIVED: 100971

DATE OF INSPECTION: [blank] INSPECTOR: [Signature]

REMARKS: [blank]

P [Signature] WI



Ontario

MINISTRY OF THE ENVIRONMENT
The Ontario Water Resources Act

WATER WELL RECORD

319/148

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

11

1514650

MUNICIPALITY 15701

CON.

COUNTY OR DISTRICT CARLETON	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE RICHMOND VILLAGE	CON., BLOCK, TRACT, SURVEY, ETC. GOLDBOURN CON. 3	LOT 23-27
OWNER (SURNAME FIRST) JULIA	ADDRESS CONST. LTD. RICHMOND. ONT.	DATE COMPLETED 07 05 74	

1514650 18 434384 5003774 4 310 4 26 AUG 04, 1977 303

LOG OF OVERBORER AND BEDROOM MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
GREY	CLAY	SAND, STONES		0'	15'
GREY	LIMESTONE		MED. HARD.	15'	86'

31 00152052812 008621573

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER			
10-13	1 <input checked="" type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR		
15-18	2 <input type="checkbox"/> SALTY	4 <input type="checkbox"/> MINERAL		

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
10-11	1 <input checked="" type="checkbox"/> STEEL	.188	0'	20'
17-18	2 <input type="checkbox"/> GALVANIZED		20'	20'

SCREEN

SIZE(S) OF OPENING (SLOT NO)	DIAMETER INCHES	LENGTH FEET
31-33	34-38	39-40

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET	MATERIAL AND TYPE
10-13	14-17

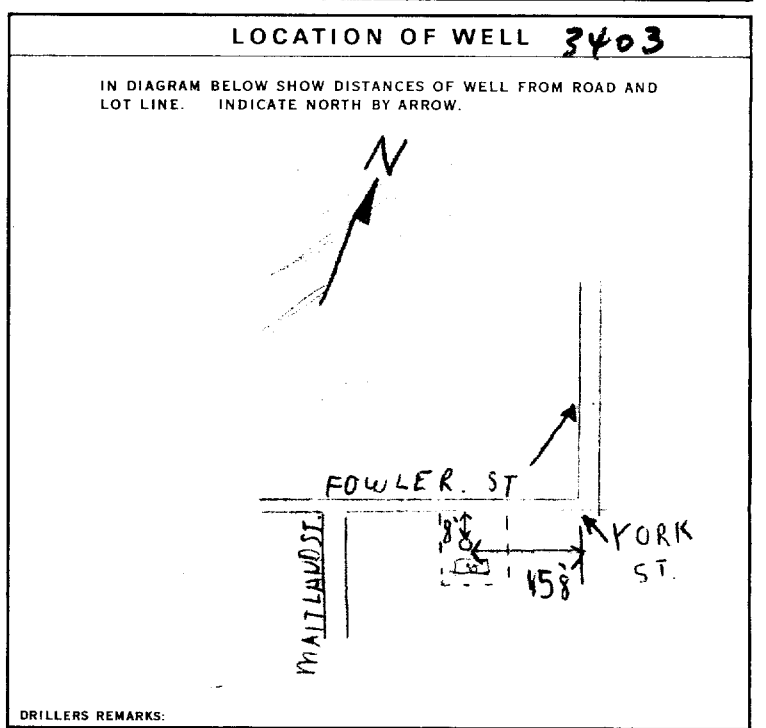
71 PUMPING TEST METHOD

1 PUMP 2 BAILER

PUMPING RATE 0008 GPM.

DURATION OF PUMPING 02 00 HOURS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING					
004'	060'	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES		
		060'	060'	060'	060'		



FINAL STATUS OF WELL 1 WATER SUPPLY

WATER USE 01 DOMESTIC

METHOD OF DRILLING 1 CABLE TOOL

CONTRACTOR NAME OF WELL CONTRACTOR: MAPLE LEAF DRILLING

ADDRESS: 409, 165, RICHMOND. RP.

SIGNATURE OF CONTRACTOR: Robert Fraser

OFFICE USE ONLY

DATA SOURCE 1 3658

DATE OF INSPECTION: 15 Apr 74

INSPECTOR: P/R Doyle



Ontario

WATER WELL RECORD

31 9/28

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

11

1514852

MUNICIPALITY 15701

CON. NO. 15

COUNTY OR DISTRICT: Carleton Place TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: Richmond CON. BLOCK, TRACT, SURVEY, ETC.: Fortune St. 98

DATE COMPLETED: DAY 13 MO. 06 YR. 75

HING: 5003450 RC. ELEVATION: 4 RC. BASIN CODE: 4 26 AUG 04, 1977 303

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
grey	clay			0	15
grey	limestone			15	75

31 0015205 0075215

32

41 WATER RECORD

WATER FOUND AT - FEET: 0072

KIND OF WATER:

1 FRESH 3 SULPHUR
2 SALTY 4 MINERAL

15-18 1 FRESH 3 SULPHUR
2 SALTY 4 MINERAL

20-23 1 FRESH 3 SULPHUR
2 SALTY 4 MINERAL

25-28 1 FRESH 3 SULPHUR
2 SALTY 4 MINERAL

30-33 1 FRESH 3 SULPHUR
2 SALTY 4 MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
10-11	1 <input checked="" type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE	188	0	13-16
17-18	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE			20-23
24-25	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE			27-30

SCREEN

SIZE(S) OF OPENING (SLOT NO.): 31-32 DIAMETER: 34-38 LENGTH: 39-40

MATERIAL AND TYPE: DEPTH TO TOP OF SCREEN: 41-44 80

61 PLUGGING & SEALING RECORD

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

71 PUMPING TEST

PUMPING TEST METHOD: 1 PUMP 2 BAILER

PUMPING RATE: 0004 GPM

DURATION OF PUMPING: 01 HOURS 00 MINS

WATER LEVELS DURING PUMPING:

19-21	030	22-24	030	26-28	030	29-31	030	32-34	030	35-37	030
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IF FLOWING, GIVE RATE: 38-41 GPM

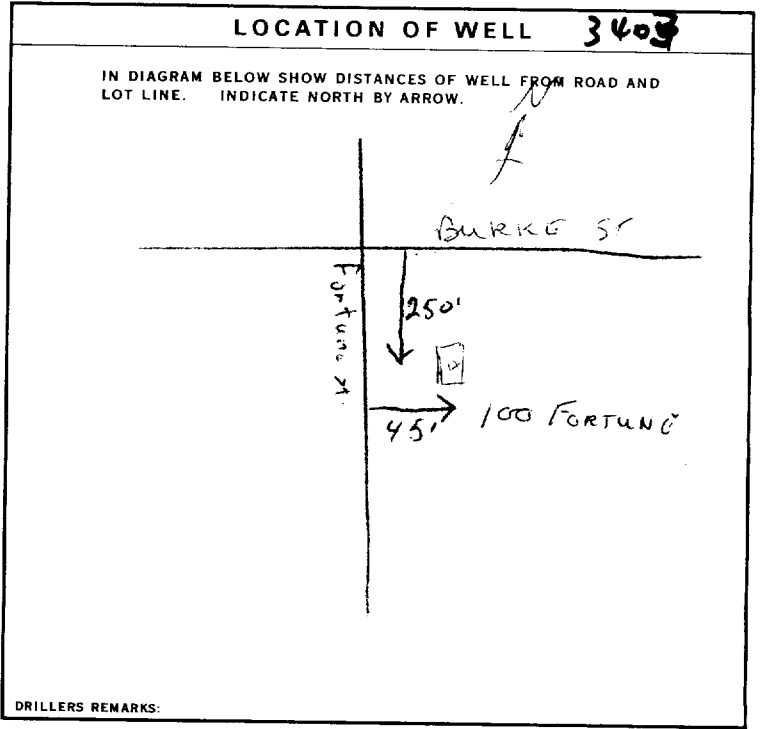
PUMP INTAKE SET AT: 43-45 FEET

WATER AT END OF TEST: 1 CLEAR 2 CLOUDY

RECOMMENDED PUMP TYPE: SHALLOW DEEP

RECOMMENDED PUMP SETTING: 030 FEET

RECOMMENDED PUMPING RATE: 0003 GPM



FINAL STATUS OF WELL

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

WATER USE

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

METHOD OF DRILLING

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

CONTRACTOR

NAME OF WELL CONTRACTOR: Henry Mains Well Drilling LICENCE NUMBER: 3644

ADDRESS: Box 326, Richmond Ont.

NAME OF DRILLER OR BORER: Henry Mains LICENCE NUMBER:

SIGNATURE OF CONTRACTOR: [Signature] SUBMISSION DATE: DAY 19 MO. 6 YR. 75

OFFICE USE ONLY

DATA SOURCE: 1 CONTRACTOR: 3644 DATE RECEIVED: 150875

DATE OF INSPECTION: 26 Aug 75 INSPECTOR: [Signature]

REMARKS:

P
WI



Ontario

WATER WELL RECORD

316/4F

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

11

1515285

MUNICIPALITY 15701

CON.

COUNTY OR DISTRICT Carleton	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE Richmond	CON., BLOCK, TRACT, SURVEY, ETC. III	LOT 25-27
OWNER (SURNAME FIRST) Walter Hardkve Const.	ADDRESS Richmond, Ontario	DATE COMPLETED DAY 23 MO. 03 YR. 76	

ZONE EASTING NORTHING RC. ELEVATION RC. BASIN CODE II III IV
 1515285 18 434171 5003395 4 308 4 26 JUN 28, 1977 300

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
brown	sand		loose	0	2
brown	sand	boulders	loose	2	10
grey	hardpan		packed	10	15
grey	limestone		medium hard	15	115

31 000262877 00106281377 001521479 011521573

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0065	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
0113	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
64	1 <input checked="" type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input checked="" type="checkbox"/> OPEN HOLE	188	0	0025
06	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input checked="" type="checkbox"/> OPEN HOLE		25	115
06	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input checked="" type="checkbox"/> OPEN HOLE			0115

SCREEN

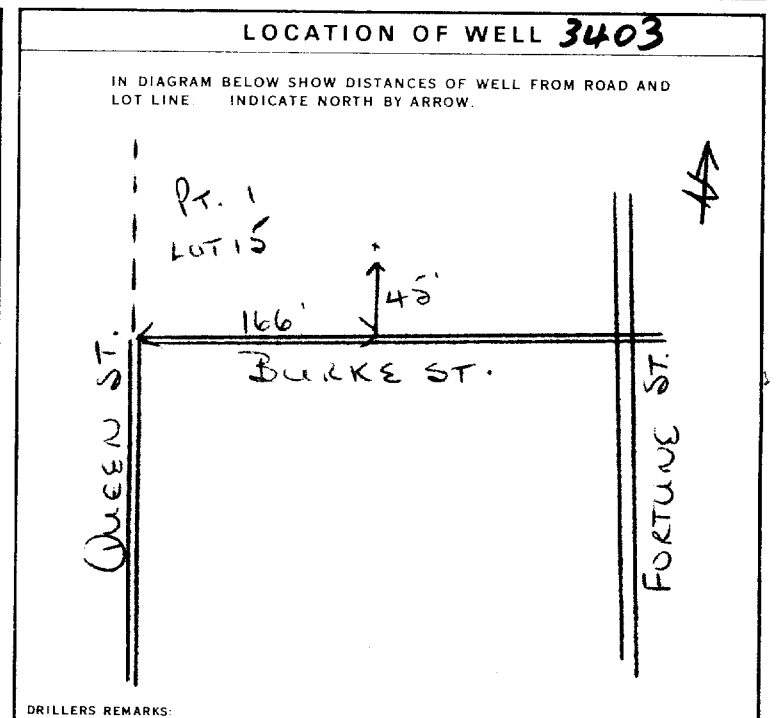
SIZE(S) OF OPENING (SLOT NO.)	DIAMETER	LENGTH
	INCHES	FEET
MATERIAL AND TYPE		DEPTH TO TOP OF SCREEN
		FEET

61 PLUGGING & SEALING RECORD

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

71 PUMPING TEST

PUMPING TEST METHOD 1 <input checked="" type="checkbox"/> PUMP 2 <input type="checkbox"/> BAILER	PUMPING RATE 2009 GPM	DURATION OF PUMPING 01 HOURS 00 MINS
STATIC LEVEL 015 FEET	WATER LEVEL END OF PUMPING 075 FEET	WATER LEVELS DURING 15 MINUTES: 075 FEET 30 MINUTES: 075 FEET 45 MINUTES: 075 FEET 60 MINUTES: 075 FEET
IF FLOWING, GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST
RECOMMENDED PUMP TYPE <input type="checkbox"/> SHALLOW <input checked="" type="checkbox"/> DEEP	RECOMMENDED PUMP SETTING 100 FEET	RECOMMENDED PUMPING RATE 005 GPM



FINAL STATUS OF WELL 1

WATER USE 01

METHOD OF DRILLING 5

CONTRACTOR

NAME OF WELL CONTRACTOR: Capital Water Supply Ltd. LICENCE NUMBER: 1558

ADDRESS: Box 490 Stittsville, Ontario

NAME OF DRILLER OR BORER: D. McDougall

SIGNATURE OF CONTRACTOR: [Signature]

SUBMISSION DATE: DAY 26 MO. 3 YR. 76

OFFICE USE ONLY

DATA SOURCE: 1 CONTRACTOR: 1558 DATE RECEIVED: 130476

DATE OF INSPECTION: June 16, 1976 INSPECTOR: [Signature]

REMARKS: [Signature]

P [Signature]

WI



MINISTRY OF THE ENVIRONMENT
The Ontario Water Resources Act
WATER WELL RECORD

31 6/4F

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

11 1515286

MUNICIPALITY 15701

COUNTY OR DISTRICT: Carleton TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: Richmond CON. BLOCK, TRACT, SURVEY, ETC.: III LOT: 25-27
OWNER (SURNAME FIRST): Walter Hardkye Const. ADDRESS: Richmond, Ontario DATE COMPLETED: JUN 24 MO 03 YR 76

ZONE EASTING NORTHING RC. ELEVATION RC. BASIN CODE II III IV
1515286 18 434193 5003418 4 308 4 26 JUN 28, 1977 300

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
brown	sand	stones	loose	0	2
brown	clay	boulders		2	8
grey	limestone		medium hard	8	125

31 00026281277 000860513 012521573

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0045	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
0124	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL

51 CASING & OPEN HOLE RECORD

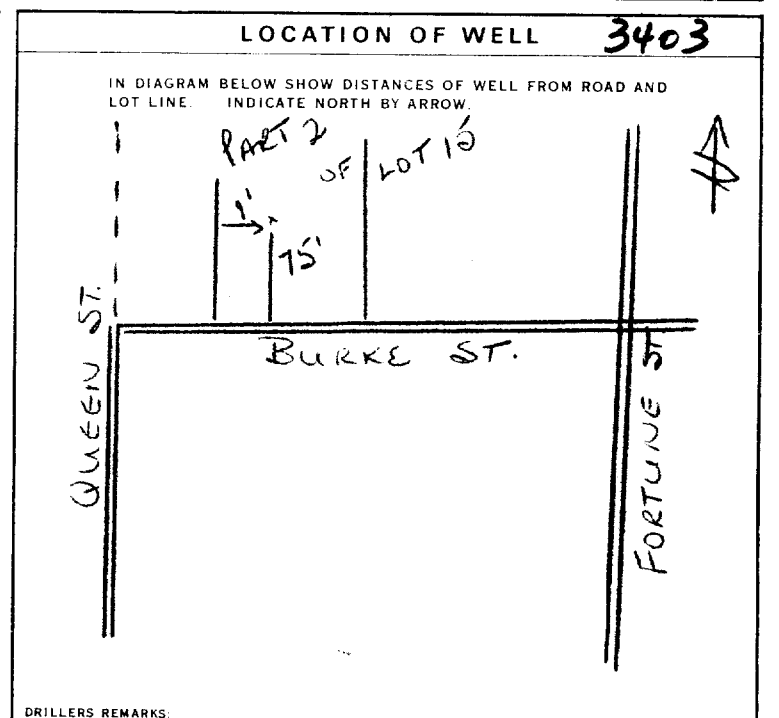
INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
6 1/2	1 <input checked="" type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE	188	0	0025
6	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input checked="" type="checkbox"/> OPEN HOLE		25	125
6	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input checked="" type="checkbox"/> OPEN HOLE			0125

61 PLUGGING & SEALING RECORD

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

71 PUMPING TEST

PUMPING TEST METHOD: 1 <input checked="" type="checkbox"/> PUMP 2 <input type="checkbox"/> BAILER	PUMPING RATE: 0012 GPM	DURATION OF PUMPING: 01 HOURS 00 MINS
STATIC LEVEL: 010 FEET	WATER LEVEL END OF PUMPING: 025 FEET	WATER LEVELS DURING:
		15 MINUTES: 025 FEET
		30 MINUTES: 025 FEET
		45 MINUTES: 025 FEET
		60 MINUTES: 025 FEET
IF FLOWING, GIVE RATE: 025 GPM	PUMP INTAKE SET AT: 030 FEET	WATER AT END OF TEST: 1 <input checked="" type="checkbox"/> CLEAR 2 <input type="checkbox"/> CLOUDY
RECOMMENDED PUMP TYPE: 1 <input checked="" type="checkbox"/> SHALLOW 2 <input type="checkbox"/> DEEP	RECOMMENDED PUMP SETTING: 030 FEET	RECOMMENDED PUMPING RATE: 0005 GPM



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

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

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

CONTRACTOR: Capital Water Supply Ltd. LICENCE NUMBER: 1558
ADDRESS: Box 490 Stittville, Ontario
NAME OF DRILLER OR BORER: D. McDougall
SIGNATURE OF CONTRACTOR: Walter Karanagh
SUBMISSION DATE: JUN 26 MO 3 YR 76

OFFICE USE ONLY: DATA SOURCE: 1 CONTRACTOR: 1558 DATE RECEIVED: 30476
DATE OF INSPECTION: June 16, 1976 INSPECTOR: P. Pentney
REMARKS: P OEP WI



Ontario

WATER WELL RECORD

31 G/4F

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

11 1515320 15701

COUNTY OR DISTRICT: Carleton TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: Richmond CON., BLOCK, TRACT, SURVEY, ETC.: Burke St

DATE COMPLETED: JUN 27 04 76

003441 4 308 4 26 JUN 28, 1977 300

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
grey	clay	stone		0	10
grey	limestone			10	122
white	quartz			122	125

31 001020512 0122215 0125146

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0/24	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET
6 1/2	1 <input checked="" type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE	1/8	0 0025

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET	MATERIAL AND TYPE
10-13	14-17

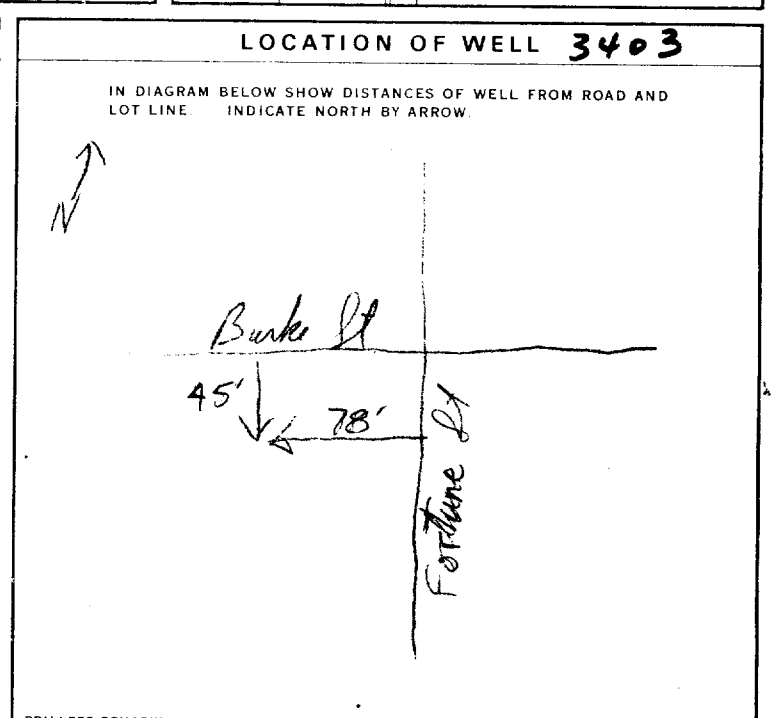
71 PUMPING TEST

PUMPING TEST METHOD: 1 PUMP 2 BAILER

PUMPING RATE: 0008 GPM

DURATION OF PUMPING: 01 00 HOURS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING
0/15	050	15 MINUTES: 050 30 MINUTES: 050 45 MINUTES: 050 60 MINUTES: 050



FINAL STATUS OF WELL: 1 WATER SUPPLY

WATER USE: 01 DOMESTIC

METHOD OF DRILLING: 5 AIR PERCUSSION

CONTRACTOR: Jerry Mann Well Drilling, Licence Number 3644

DRILLER OR BORER: [Signature], Licence Number [Blank]

SUBMISSION DATE: DAY 29 MO 4 YR 76

OFFICE USE ONLY

DATA SOURCE: 1 **CONTRACTOR**: 3644 **DATE RECEIVED**: 060576

DATE OF INSPECTION: June 16, 1976 **INSPECTOR**: J.E. Portney



Ontario

WATER WELL RECORD

31/6/48

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

11

1515370

MUNICIPALITY 15701

CON. CON

03

COUNTY OR DISTRICT Carleton	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE Richmond	CON., BLOCK, TRACT, SURVEY, ETC. 023	LOT 023
OWNER (SURNAME FIRST) Walter Hardkye Constr.	ADDRESS Richmond, Ontario	DATE COMPLETED DAY 12 MO 05 YR 76	

UTM ZONE EASTING NORTHING RC ELEVATION RC BASIN CODE II III IV

18 434299 5003499 4 0310 4 26

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
		previously drilled		0	115
grey	limastone			115	147

31 0115 24 0147 26

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER			
10-13	1 <input checked="" type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	14	
0065	2 <input type="checkbox"/> SALTY	4 <input type="checkbox"/> MINERAL		
15-18	1 <input checked="" type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	19	
0113	2 <input type="checkbox"/> SALTY	4 <input type="checkbox"/> MINERAL		
20-23	1 <input checked="" type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	24	
0140	2 <input type="checkbox"/> SALTY	4 <input type="checkbox"/> MINERAL		
25-28	1 <input type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	29	
	2 <input type="checkbox"/> SALTY	4 <input type="checkbox"/> MINERAL		
30-33	1 <input type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	34-60	
	2 <input type="checkbox"/> SALTY	4 <input type="checkbox"/> MINERAL		

51 CASING & OPEN HOLE RECORD

WELL ID	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
10-11	1 <input checked="" type="checkbox"/> STEEL	188	0	0025
06	2 <input type="checkbox"/> GALVANIZED		25	115
	3 <input type="checkbox"/> CONCRETE			
	4 <input checked="" type="checkbox"/> OPEN HOLE			
17-18	1 <input type="checkbox"/> STEEL			20-23
06	2 <input type="checkbox"/> GALVANIZED		115	0115
	3 <input type="checkbox"/> CONCRETE			147
	4 <input checked="" type="checkbox"/> OPEN HOLE			
24-25	1 <input type="checkbox"/> STEEL			27-30
05	2 <input type="checkbox"/> GALVANIZED			0147
	3 <input type="checkbox"/> CONCRETE			
	4 <input checked="" type="checkbox"/> OPEN HOLE			

61 PLUGGING & SEALING RECORD

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

71 PUMPING TEST METHOD

1 PUMP 2 BAILER

PUMPING RATE 0040 GPM

DURATION OF PUMPING 01 HOURS 00 MINS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING			
19-21	22-24	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
002	020	020	020	020	020

IF FLOWING, GIVE RATE 38-41 PUMP INTAKE SET AT 42

RECOMMENDED PUMP TYPE 1 SHALLOW 2 DEEP

RECOMMENDED PUMP SETTING 030 FEET

RECOMMENDED PUMPING RATE 0005 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 USE 01

METHOD OF DRILLING 1

CONTRACTOR

NAME OF WELL CONTRACTOR: Capital Water Supply Ltd. LICENCE NUMBER: 1558

ADDRESS: Box 490 Stittville, Ontario

NAME OF DRILLER OR BORER: M. Kavanagh LICENCE NUMBER:

SIGNATURE OF CONTRACTOR: [Signature]

SUBMISSION DATE: DAY 13 MO 5 YR 76

OFFICE USE ONLY

DATA SOURCE 1 558 CONTRACTOR 59-62 090676

DATE OF INSPECTION: Aug 18/76 INSPECTOR: [Signature]

REMARKS: [Redacted]

WI



Ontario

WATER WELL RECORD

31 G/4f

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

11

1515512

MUNICIPALITY 15704

CON. CPN

03

COUNTY OR DISTRICT: **Carleton** TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: **Goulburn (Richmond)** CON. BLOCK, TRACT, SURVEY, ETC.: **East Fortune 3**

DATE COMPLETED: DAY **12** MO **07** YR **76**

ADDRESS: **Biscayne Cres. Ottawa, Ontario**

ING: **003420** 24 ELEVATION: **0308** 26 BASIN CODE: **26** 31

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
brown	sand	gravel	loose	0	15
grey	limestone		broken	15	23
grey	limestone		23	23	73

31 0015628/1177 002321571 0073215

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0070	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
15-18	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
20-23	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
25-28	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
30-33	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL

51 CASING & OPEN HOLE RECORD

WELLSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
6 1/8	1 <input checked="" type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input checked="" type="checkbox"/> OPEN HOLE	188	0	0025
5 7/8	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input checked="" type="checkbox"/> OPEN HOLE		25	73
06	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE			0073

61 PLUGGING & SEALING RECORD

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

71 PUMPING TEST

PUMPING TEST METHOD: 1 PUMP 2 BAILER

PUMPING RATE: 0015 GPM

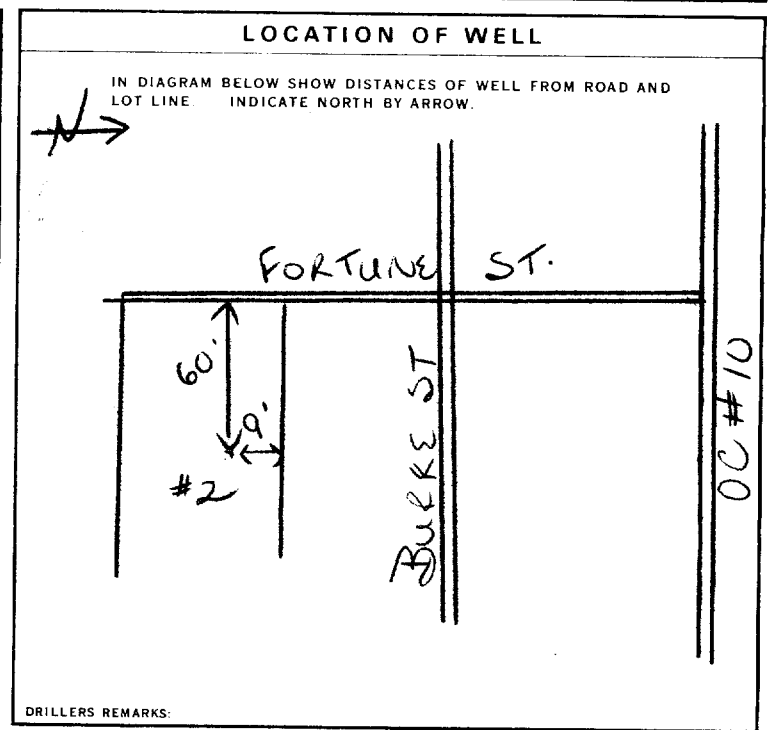
DURATION OF PUMPING: 01 HOURS 00 MINS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING			
FEET	FEET	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
004	030	030	030	030	030

RECOMMENDED PUMP TYPE: SHALLOW DEEP

RECOMMENDED PUMP SETTING: 040 FEET

RECOMMENDED PUMPING RATE: 0005 GPM



FINAL STATUS OF WELL

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

WATER USE

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

METHOD OF DRILLING

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

CONTRACTOR

NAME OF WELL CONTRACTOR: **Capital Water Supply Ltd.** LICENCE NUMBER: **1558**

ADDRESS: **Box 490 Stn. Wols Ontario**

NAME OF DRILLER OR BORER: **D. M. Dougall** LICENCE NUMBER: **2-9**

SIGNATURE OF CONTRACTOR: *[Signature]* SUBMISSION DATE: DAY **13** MO **7** YR **76**

OFFICE USE ONLY

DATA SOURCE: **1** CONTRACTOR: **1558** DATE RECEIVED: **090876**

DATE OF INSPECTION: **17/6/77** INSPECTOR: **PH**

REMARKS:

P
WI



Ontario

WATER WELL RECORD

316/4f

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

11 1515513

MUNICIPALITY 15704 CON. CEN

03

COUNTY OR DISTRICT: **Carleton** TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: **Goulburn (Richmond)** CON. BLOCK, TRACT, SURVEY, ETC.: **East Fortune 3**

DATE COMPLETED: DAY **12** MO **07** YR **76**

ADDRESS: **Biscayne Cres. Ottawa, Ontario**

PHONE: **003370 4** ELEVATION: **0308 4** GRID CODE: **26**

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
brown	sand & gravel			0	13
grey	limestone		broken	13	22
grey	limestone			22	98

31 0013628111 002221571 0098215

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0095 10-13	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
15-18	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
20-23	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
25-28	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
30-33	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
0.6	1 <input checked="" type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input checked="" type="checkbox"/> OPEN HOLE	188	0	0025
0.6	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input checked="" type="checkbox"/> OPEN HOLE		25	98

61 PLUGGING & SEALING RECORD

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

71 PUMPING TEST

PUMPING TEST METHOD: 1 PUMP 2 BAILER

PUMPING RATE: 0010 GPM

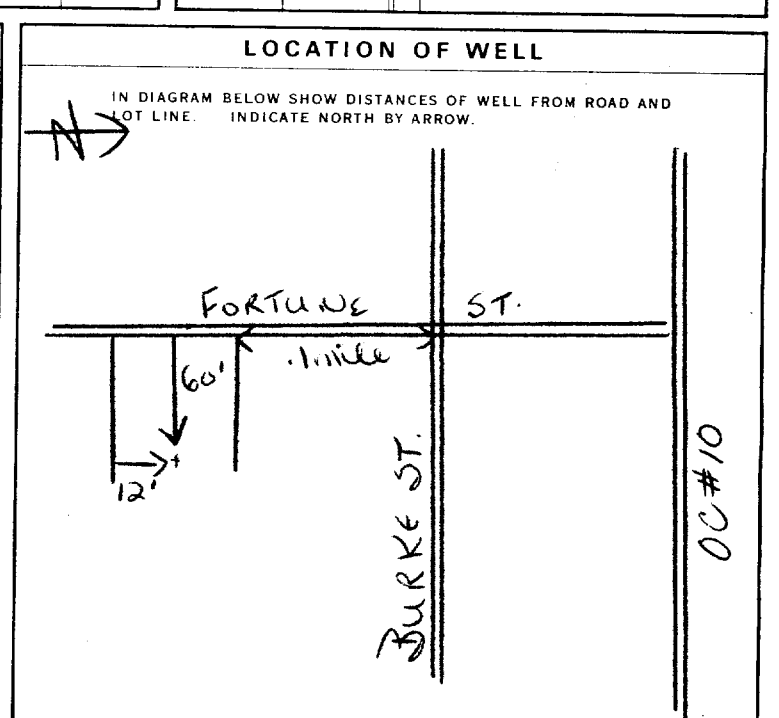
DURATION OF PUMPING: 01 HOURS 00 MINS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING PUMPING			
19-21 FEET	22-24 FEET	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
010	025	025	025	025	025

RECOMMENDED PUMP TYPE: SHALLOW DEEP

RECOMMENDED PUMP SETTING: 035 FEET

RECOMMENDED PUMPING RATE: 0005 GPM



FINAL STATUS OF WELL

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

WATER USE

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

METHOD OF DRILLING

5 AIR PERCUSSION 6 BORING
2 ROTARY (CONVENTIONAL) 7 DIAMOND
3 ROTARY (REVERSE) 8 JETTING
4 ROTARY (AIR) 9 DRIVING

CONTRACTOR

NAME OF WELL CONTRACTOR: **Capital Water Supply Ltd.** LICENCE NUMBER: **1558**

ADDRESS: **Box 49 Stittville Ontario**

NAME OF DRILLER: **D. C. Hall** LICENCE NUMBER: **2-9**

SIGNATURE OF CONTRACTOR: *[Signature]* SUBMISSION DATE: DAY **13** MO **7** YR **76**

OFFICE USE ONLY

DATA SOURCE: **1** CONTRACTOR: **1558** DATE RECEIVED: **090876**

DATE OF INSPECTION: **17/6/77** INSPECTOR: *[Signature]*

REMARKS: **P** **WI**



Ontario

WATER WELL RECORD

31648

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

11 1516959

15701 CON

COUNTY OR DISTRICT: Carleton Place TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: Richmond Hill CON. BLOCK, TRACT, SURVEY, ETC.: Ottawa St

DATE COMPLETED: 03 05 79

GRID: 03299 4 0310 4 26

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
<u>grey</u>	<u>clay</u>	<u>stones</u>		<u>0</u>	<u>23</u>
<u>grey</u>	<u>limestone</u>			<u>23</u>	<u>125</u>

31 002320512 0125215

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER			
10-13	1 <input checked="" type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR		
	2 <input type="checkbox"/> SALTY	4 <input type="checkbox"/> MINERAL		
15-18	1 <input checked="" type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR		
	2 <input type="checkbox"/> SALTY	4 <input type="checkbox"/> MINERAL		
20-23	1 <input type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR		
	2 <input type="checkbox"/> SALTY	4 <input type="checkbox"/> MINERAL		
25-28	1 <input type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR		
	2 <input type="checkbox"/> SALTY	4 <input type="checkbox"/> MINERAL		
30-33	1 <input type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR		
	2 <input type="checkbox"/> SALTY	4 <input type="checkbox"/> MINERAL		

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
10-11	1 <input checked="" type="checkbox"/> STEEL	12		13-16
	2 <input type="checkbox"/> GALVANIZED			
	3 <input type="checkbox"/> CONCRETE			
	4 <input type="checkbox"/> OPEN HOLE			
17-18	1 <input type="checkbox"/> STEEL	19		20-23
	2 <input type="checkbox"/> GALVANIZED			
	3 <input type="checkbox"/> CONCRETE			
	4 <input type="checkbox"/> OPEN HOLE			
24-25	1 <input type="checkbox"/> STEEL	26		27-30
	2 <input type="checkbox"/> GALVANIZED			
	3 <input type="checkbox"/> CONCRETE			
	4 <input type="checkbox"/> OPEN HOLE			

SCREEN

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

61 PLUGGING & SEALING RECORD

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

71 PUMPING TEST METHOD

1 PUMP 2 BAILER

10 PUMPING RATE: 00/0

11-14 DURATION OF PUMPING: 0 HOURS 00 MINS

15-16 PUMPING: 0 HOURS 00 MINS

17-18 RECOVERY

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING PUMPING					
19-21	22-24	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES		
<u>002</u>	<u>025</u>	<u>025</u>	<u>025</u>	<u>025</u>	<u>025</u>	<u>025</u>	<u>025</u>
FEET	FEET	FEET	FEET	FEET	FEET	FEET	FEET

IF FLOWING, GIVE RATE: _____ GPM

PUMP INTAKE SET AT: _____ FEET

WATER AT END OF TEST: _____ FEET

1 CLEAR 2 CLOUDY

RECOMMENDED PUMP TYPE: SHALLOW DEEP

RECOMMENDED PUMP SETTING: 025 FEET

RECOMMENDED PUMPING RATE: 00/0 GPM

LOCATION OF WELL

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

DRILLERS REMARKS

54 FINAL STATUS OF WELL: 1 WATER SUPPLY

2 OBSERVATION WELL 5 ABANDONED, INSUFFICIENT SUPPLY

3 TEST HOLE 6 ABANDONED, POOR QUALITY

4 RECHARGE WELL 7 UNFINISHED

55-56 WATER USE: 1 DOMESTIC

2 STOCK 5 COMMERCIAL

3 IRRIGATION 6 MUNICIPAL

4 INDUSTRIAL 7 PUBLIC SUPPLY

8 COOLING OR AIR CONDITIONING

9 NOT USED

57 METHOD OF DRILLING: 1 CABLE TOOL

2 ROTARY (CONVENTIONAL) 6 BORING

3 ROTARY (REVERSE) 7 DIAMOND

4 ROTARY (AIR) 8 JETTING

5 AIR PERCUSSION 9 DRIVING

CONTRACTOR: Denny Maine Well Drilling LICENCE NUMBER: 3644

ADDRESS: Box 326, Richmond Ont.

NAME OF DRILLER OR BORER: Denny Maine LICENCE NUMBER: _____

SIGNATURE OF CONTRACTOR: _____ SUBMISSION DATE: DAY 3 MO. 5 YR. 79

OFFICE USE ONLY

DATA SOURCE: 1 CONTRACTOR: 3644 DATE RECEIVED: 28 05 79

DATE OF INSPECTION: _____ INSPECTOR: KM

REMARKS: _____

P

WI



The Ontario Water Resources Act WATER WELL RECORD

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

11 1517321

MUNICIPALITY: 15003 CON. NO.: CON

COUNTY OR DISTRICT: Carleton TOWNSHIP: Goulbourn CON. BLOCK, PACT, SURVEY, ETC.: Con 2. LOT: 021

RICHMOND ONT. DATE COMPLETED: 30 06 80

WELL NO.: 002699 RC: 4 ELEVATION: 031.0 RC: 4 BASIN CODE: 26

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
grey	sand			0	5
grey	limestone			5	84



31 0005228 0084215

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER			
	1 FRESH	2 SALTY	3 SULPHUR	4 MINERAL
0045	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0080	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
6 1/2	STEEL	1/8	0	20

SCREEN

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

61 PLUGGING & SEALING RECORD

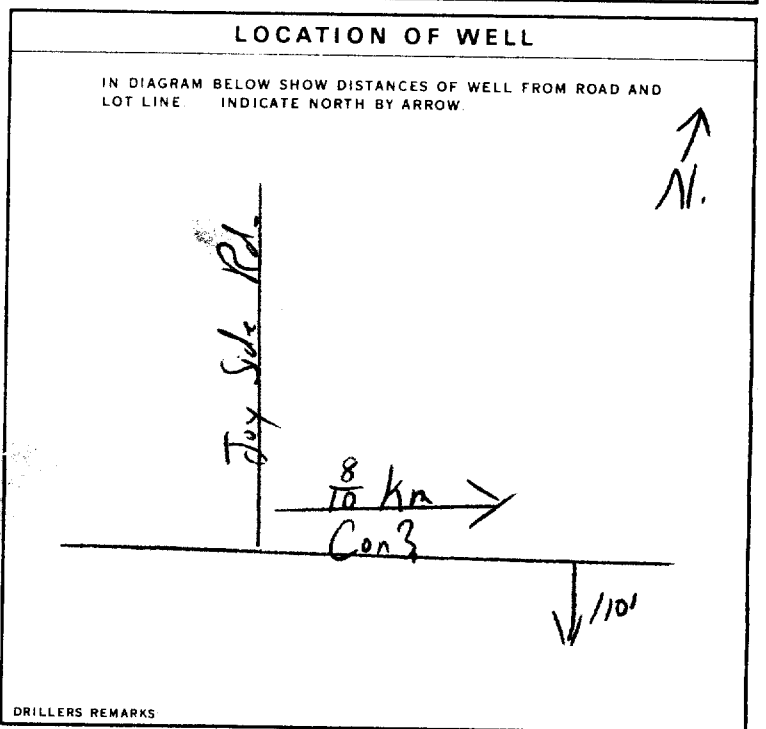
DEPTH SET AT - FEET	MATERIAL AND TYPE (CEMENT GROUT LEAD PACKER ETC.)
10-13	14-17
18-21	22-25
26-29	30-33

71 PUMPING TEST

PUMPING TEST METHOD	PUMPING RATE GPM	DURATION OF PUMPING HOURS
1 PUMP	00/0	01 00

STATIC LEVEL FEET	WATER LEVEL END OF PUMPING FEET	WATER LEVELS DURING PUMPING
0/0	080	15 MINUTES: 080, 30 MINUTES: 080, 45 MINUTES: 080, 60 MINUTES: 080

RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING GPM	RECOMMENDED PUMPING RATE GPM
DEEP	080	0008



FINAL STATUS OF WELL: 1

WATER USE: 06

METHOD OF DRILLING: 5

CONTRACTOR: Denny Mains Well Drilling, 3644 Box 326, Richmond Ont.

LICENCE NUMBER: 3644

SIGNATURE OF CONTRACTOR: Denny Mains

SUBMISSION DATE: 30 06 80

OFFICE USE ONLY

DATA SOURCE: 1 CONTRACTOR: 3644 DATE RECEIVED: 110780

DATE OF INSPECTION: INSPECTOR: K

REMARKS:

WATER WELL RECORD

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

11

1517691

MUNICIPALITY 15.701

CON. 03N

0.3

COUNTY/DISTRICT: Essex TOWNSHIP/BOROUGH/CITY/TOWN/VILLAGE: Richmond CON. BLOCK TRACT SURVEY ETC: Ottawa St 623 LOT: 748
Richmond Ont. DATE COMPLETED: DAY 23 MO 11 YR 81
 DISTRICT: 003299 RC: 4 ELEVATION: 0310 RC: 4 BASIN CODE: 26

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	27
grey	limestone			27	125

31 002720512 0125215

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER			
10-13 <u>0120</u>	1 <input checked="" type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	2 <input type="checkbox"/> SALTY	4 <input type="checkbox"/> MINERAL
15-18	1 <input type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	2 <input type="checkbox"/> SALTY	4 <input type="checkbox"/> MINERAL
20-23	1 <input type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	2 <input type="checkbox"/> SALTY	4 <input type="checkbox"/> MINERAL
25-28	1 <input type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	2 <input type="checkbox"/> SALTY	4 <input type="checkbox"/> MINERAL
30-33	1 <input type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	2 <input type="checkbox"/> SALTY	4 <input type="checkbox"/> MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET
<u>96</u>	1 <input checked="" type="checkbox"/> STEEL	<u>188</u>	<u>0 to 30</u>
<u>64</u>	2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE		
17-18	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE		20-23
24-25	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE		27-30

SCREEN

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

61 PLUGGING & SEALING RECORD

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

71 PUMPING TEST METHOD

1 PUMP 2 BAILER

PUMPING RATE: 0007 GPM

DURATION OF PUMPING: 01 HOUR 00 MINS

STATIC LEVEL FEET	WATER LEVEL END OF PUMPING FEET	WATER LEVELS DURING PUMPING			
<u>003</u>	<u>080</u>	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
		<u>080</u>	<u>080</u>	<u>080</u>	<u>080</u>

IF FLOWING GIVE RATE: 080 GPM

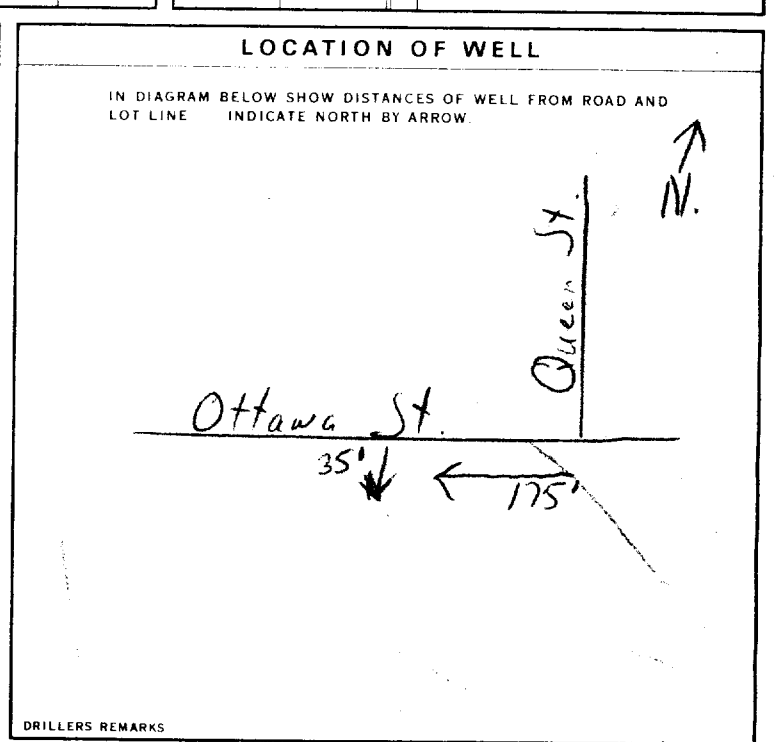
PUMP INTAKE SET AT: 080 FEET

WATER AT END OF TEST: 080 FEET

RECOMMENDED PUMP TYPE: SHALLOW DEEP

RECOMMENDED PUMP SETTING: 080 FEET

RECOMMENDED PUMPING RATE: 0005 GPM



FINAL STATUS OF WELL

1 WATER SUPPLY

WATER USE

1 DOMESTIC

METHOD OF DRILLING

5 AIR PERCUSSION

CONTRACTOR

NAME OF WELL CONTRACTOR: Herry Mairis Well Drilling LICENCE NUMBER: 3644
 ADDRESS: Box 326, Richmond Ont.
 NAME OF DRILLER OR BORER: Herry Mairis LICENCE NUMBER:
 SIGNATURE OF CONTRACTOR: Herry Mairis SUBMISSION DATE: DAY 28 MO 11 YR 81

OFFICE USE ONLY

DATA SOURCE: 1 CONTRACTOR: 3644 DATE RECEIVED: 12 01 82
 DATE OF INSPECTION: INSPECTOR:
 REMARKS:



Ministry of the Environment

Ontario

The Ontario Water Resources Act

WATER WELL RECORD

31648

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

11

1517707

MUNICIP. 15701

CON. CON

03

COUNTY OR DISTRICT: **Compton** TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: **Compton** CON. BLOCK TRACT, SURVEY ETC: **3** LOT: **023** **025**
DATE COMPLETED: DAY **24** MO **04** YR **81**
ADDRESS: **Burke St., Richmond, Ont.**

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
Blue	Clay			0	9
	Broken Rock			9	11
	Hard Limestone			11	35



31 9999395 9911 1271 0035 1573
32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
10-13 0025	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
15-18	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
20-23	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
25-28	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
30-33	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET
			FROM TO
10-11	1 <input checked="" type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE		13-16
17-18	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE	.188	0 0018
24-25	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE		27-30

SCREEN

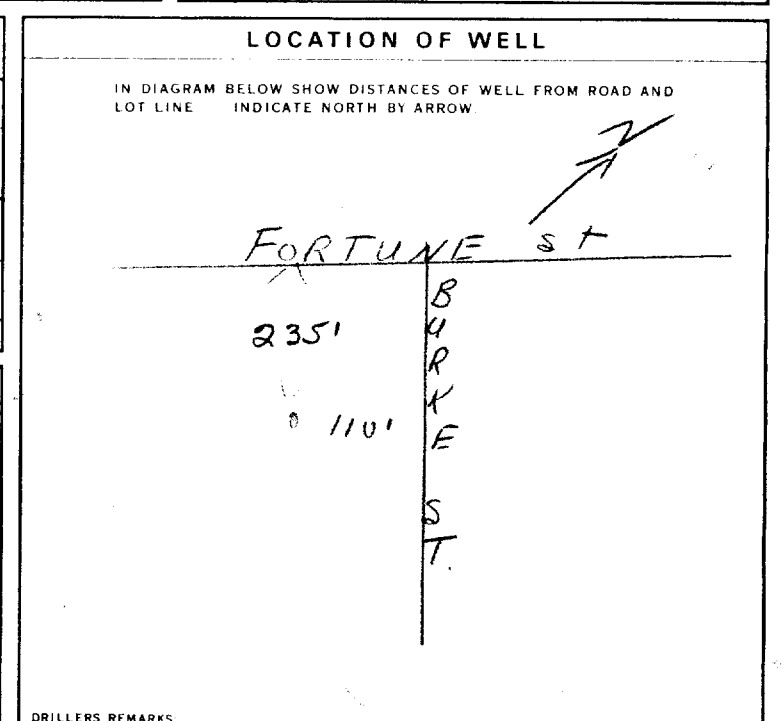
SIZE(S) OF OPENING (SLOT NO.)	DIAMETER	LENGTH
	INCHES	FEET
		41-44 30

61 PLUGGING & SEALING RECORD

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

71 PUMPING TEST

PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
1 <input checked="" type="checkbox"/> PUMP 2 <input type="checkbox"/> BAILER	0009 GPM	15-16 HOURS 30 MINS.
STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING
19-21 009 FEET	22-24 030 FEET	15 MINUTES 26-28 009 FEET 30 MINUTES 29-31 009 FEET 45 MINUTES 32-34 009 FEET 60 MINUTES 35-37 009 FEET
IF FLOWING, GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST
	GPM	FEET
RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING	RECOMMENDED PUMPING RATE
1 <input checked="" type="checkbox"/> SHALLOW 2 <input type="checkbox"/> DEEP	025 FEET	0005 GPM



FINAL STATUS OF WELL

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

WATER USE

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

METHOD OF DRILLING

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

CONTRACTOR

NAME OF WELL CONTRACTOR: **McLean Water Supply Ltd.** LICENCE NUMBER: **3504**
ADDRESS: **1532 Raven Ave. Ottawa, Ont.**
NAME OF DRILLER OR BORER: **A. Scharf** LICENCE NUMBER:
SIGNATURE OF CONTRACTOR: *[Signature]* SUBMISSION DATE: DAY **24** MO **4** YR **81**

OFFICE USE ONLY

DATA SOURCE: **1** CONTRACTOR: **3504** DATE RECEIVED: **11 02 82**
DATE OF INSPECTION: INSPECTOR:
REMARKS:



Ministry of the Environment
Ontario

The Ontario Water Resources Act

WATER WELL RECORD

31648

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

11

1517855

MUNICIPALITY 15701

CON. CPN

03

COUNTY OR DISTRICT: Coquitla TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: Richmond (Loudoun) CON. BLOCK, TRAIL, SURVEY, ETC.: Ottawa St LOT: 022

Richmond Ont DATE COMPLETED: DAY 04 MO 06 YR 82

WELL NO: 003099 RC: 4 ELEVATION: 0310 RC: 4 BASIN CODE: 26

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
grey	clay			0	8
grey	hardpan			8	15
grey	gravel			15	25
grey	limestone			25	25

31 0008205 0015214 0025211 0125215

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0/20	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
15-18	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
20-23	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
25-28	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
30-33	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET
6 1/4	STEEL	1/8	0/27
	GALVANIZED		
	CONCRETE		
	OPEN HOLE		

SCREEN

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

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

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET	MATERIAL AND TYPE	(CEMENT GROUT LEAD PACKER ETC.)
10-13		
18-21		
26-29		

71 PUMPING TEST

PUMPING TEST METHOD: 1 PUMP 2 BAILER

PUMPING RATE: 00/5 GPM DURATION OF PUMPING: 01 HOURS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING
008	030	15 MINUTES: 030 30 MINUTES: 030 45 MINUTES: 030 60 MINUTES: 030

RECOMMENDED PUMP TYPE: SHALLOW DEEP

RECOMMENDED PUMP SETTING: 030 FEET

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

WATER USE

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

METHOD OF DRILLING

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

CONTRACTOR

NAME OF WELL CONTRACTOR: Henry Mains Well Drilling LICENCE NUMBER: 3644

ADDRESS: Box 326, Richmond Ont

NAME OF DRILLER OR BORER: Henry Mains LICENCE NUMBER: _____

SIGNATURE OF CONTRACTOR: _____ SUBMISSION DATE: DAY 5 MO 6 YR 82

OFFICE USE ONLY

DATA SOURCE: 1 CONTRACTOR: 3644 DATE RECEIVED: 08 07 82

DATE OF INSPECTION: _____ INSPECTOR: _____

REMARKS: _____

3164t

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

11

1517895

MUNICIPALITY 15701

CON. C0N

03

COUNTY OR DISTRICT: Carleton TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: Goulbourn CON. BLOCK, TRACT, SURVEY, ETC: Fortune Street

DATE COMPLETED: DAY 12 MO 03 YR 82

6 Burke St., Richmond, Ont.

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
Blue	Clay			0	16
	Limestone			16	53

31 0016305 0053 15

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0024	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
0053	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input checked="" type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET
06	1 <input checked="" type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE	.188	0 / 0021

SCREEN

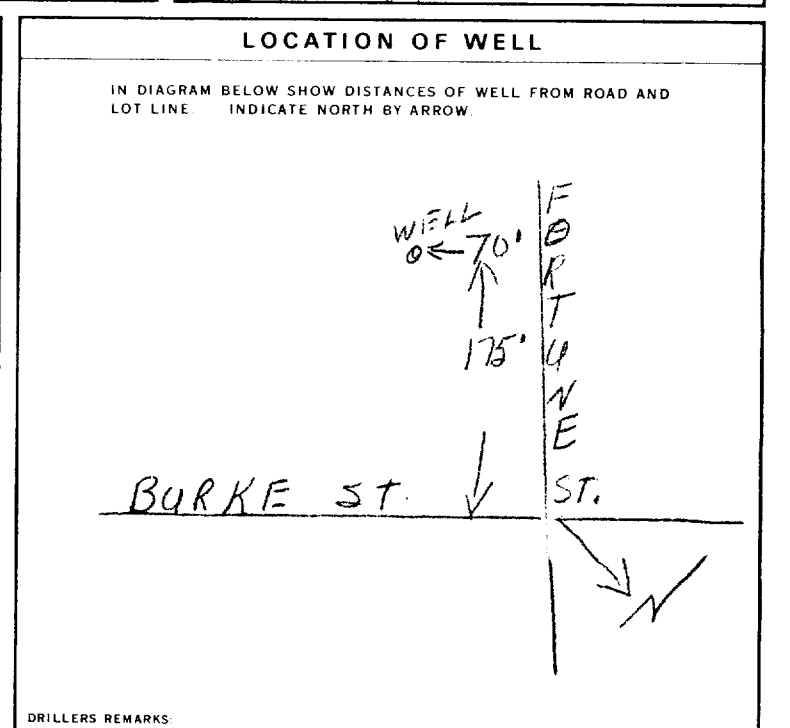
SIZE(S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET

61 PLUGGING & SEALING RECORD

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

71 PUMPING TEST

PUMPING TEST METHOD: 1 <input checked="" type="checkbox"/> PUMP 2 <input type="checkbox"/> BAILER	PUMPING RATE: 0004 GPM	DURATION OF PUMPING: 00 HOURS 30 MINS
STATIC LEVEL: 008 FEET	WATER LEVEL END OF PUMPING: 050 FEET	WATER LEVELS DURING:
		15 MINUTES: 008 FEET 30 MINUTES: 008 FEET 45 MINUTES: 008 FEET 60 MINUTES: 008 FEET
IF FLOWING, GIVE RATE:	PUMP INTAKE SET AT:	WATER AT END OF TEST:
		1 <input checked="" type="checkbox"/> CLEAR 2 <input type="checkbox"/> CLOUDY
RECOMMENDED PUMP TYPE: <input checked="" type="checkbox"/> SHALLOW <input type="checkbox"/> DEEP	RECOMMENDED PUMP SETTING: 035 FEET	RECOMMENDED PUMPING RATE: 0004 GPM



FINAL STATUS OF WELL

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

WATER USE 01

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

METHOD OF DRILLING 4

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

CONTRACTOR

NAME OF WELL CONTRACTOR: McLean Water Supply Ltd. LICENCE NUMBER: 3504
ADDRESS: 1532 Raven Ave., Ottawa, Ont.
NAME OF DRILLER OR BORER: A. Scharf
SIGNATURE OF CONTRACTOR: [Signature] SUBMISSION DATE: DAY 12 MO 3 YR 82

OFFICE USE ONLY

DATA SOURCE: 1 CONTRACTOR: 3504 DATE RECEIVED: 10 09 82
DATE OF INSPECTION: INSPECTOR:
REMARKS:

WATER WELL RECORD

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

11 1518067
 MUNICIPALITY: 15701 CON: CON LOT: 03
 COUNTY OR DISTRICT: Carleton TOWNSHIP, BROUGH, CITY, TOWN, VILLAGE: Haliburton (Richmond) CON. BLOCK, TRACT, SURVEY, ETC: Con 2, Ottawa St LOT: 022
 DATE COMPLETED: DAY 09 MO 09 YR 82
 WING: 0.03.099 RC: 4 ELEVATION: 0.3.1.0 RC: 4 BASIN CODE: 2.6

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
grey	clay			0	23
grey	hardpan	gravel		23	27
grey	limestone			27	125

31 0023205 32 0027214/11 41 0129215

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0080	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
0120	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
20-23	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
25-28	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
30-33	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET
06-11	1 <input checked="" type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE	188	0-130
17-18	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE		20-23
24-25	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE		27-30

SCREEN

SIZE (S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET
	31-33	34-38

MATERIAL AND TYPE: _____ DEPTH TO TOP OF SCREEN: 41-44 FEET

61 PLUGGING & SEALING RECORD

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

71 PUMPING TEST

PUMPING TEST METHOD: 1 PUMP 2 BAILER

PUMPING RATE: 0007 GPM DURATION OF PUMPING: 01:00 HOURS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING PUMPING
006	080	15 MINUTES: 080 30 MINUTES: 080 45 MINUTES: 080 60 MINUTES: 080

IF FLOWING, GIVE RATE: _____ PUMP INTAKE SET AT: _____ WATER AT END OF TEST: _____

RECOMMENDED PUMP TYPE: SHALLOW DEEP

RECOMMENDED PUMP SETTING: 080 FEET RECOMMENDED PUMPING RATE: 0007 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 5 ABANDONED INSUFFICIENT SUPPLY
2 OBSERVATION WELL 6 ABANDONED POOR QUALITY
3 TEST HOLE 7 UNFINISHED
4 RECHARGE WELL

WATER USE

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

METHOD OF DRILLING

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

CONTRACTOR

NAME OF WELL CONTRACTOR: Henry Mains Well Drilling LICENCE NUMBER: 3644
ADDRESS: Box 326 Richmond Ont
NAME OF DRILLER OR BORER: Max
SIGNATURE OF CONTRACTOR: _____ LICENCE NUMBER: _____
SUBMISSION DATE: DAY 9 MO 9 YR 82

OFFICE USE ONLY

DATA SOURCE: 1 CONTRACTOR: 3644 DATE RECEIVED: 11 01 83
DATE OF INSPECTION: _____ INSPECTOR: _____
REMARKS: _____

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

(11) 1518068 MUNICIP 157011 CON 03

COUNTY OR DISTRICT: Carleton TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: Leavelle (Richmond) CON. BLOCK, TRACT, SURVEY ETC: Ottawa St. LOT: 150
 OWNER (SURNAME FIRST): Henry Company Ltd ADDRESS: Richmond Ont DATE COMPLETED: DAY 01 MO 11 YR 82

ZONE U 118 EASTING 434399 NORTHING 5003099 RC 4 ELEVATION 103.10 RC 4 BASIN CODE 26

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
grey	clay			0	12
grey	hardpan	gravel		12	24
grey	limestone			24	125

MOE WF-18

31 6012205 00242141 0125215
 32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0/00	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
0/20	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
	20-23 1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
	25-28 1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
	30-33 1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
8 1/2	STEEL	1/8	0	26
6	STEEL	1/8	26	25

SCREEN

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

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET	MATERIAL AND TYPE
10-13	14-17
18-21	22-25
26-29	30-33 80

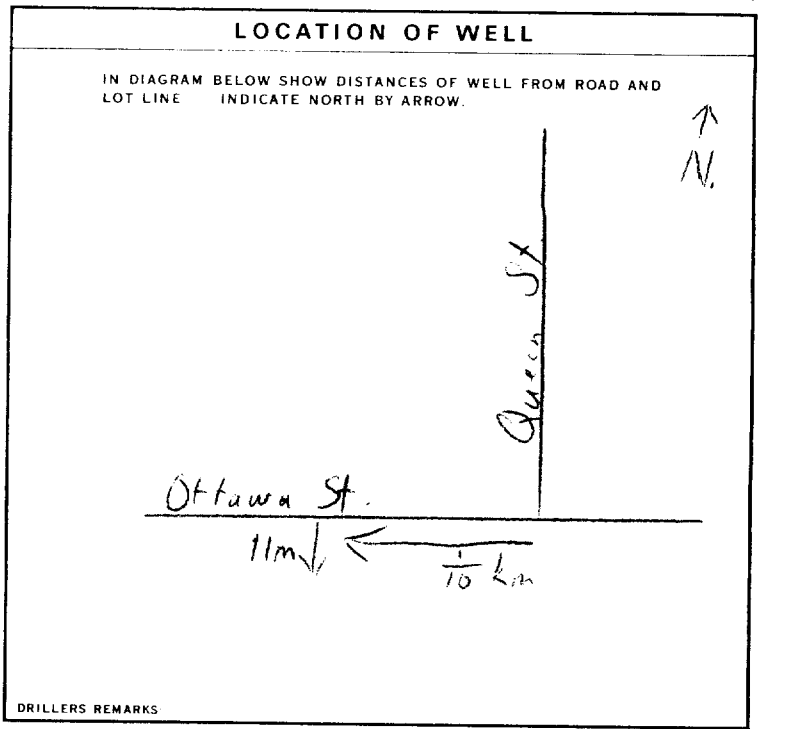
71 PUMPING TEST METHOD

1 PUMP 2 BAILER

PUMPING RATE: 0005 GPM DURATION OF PUMPING: 01 15-16 00 HOURS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING				
003 FEET	100 FEET	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES	
		100 FEET	100 FEET	100 FEET	100 FEET	

RECOMMENDED PUMP TYPE: SHALLOW DEEP
 RECOMMENDED PUMP SETTING: 100 FEET
 RECOMMENDED PUMP RATE: 0005 GPM



FINAL STATUS OF WELL 1

WATER USE 01

METHOD OF DRILLING 5

CONTRACTOR

NAME OF WELL CONTRACTOR: Henry Mains Well Drilling LICENCE NUMBER: 3644
 ADDRESS: 24326, Richmond Ont
 NAME OF DRILLER OR BORER: Mains LICENCE NUMBER:
 SIGNATURE OF CONTRACTOR: Submission Date: 20 MO 11 YR 82

OFFICE USE ONLY

DATA SOURCE: 1 CONTRACTOR: 3644 DATE RECEIVED: 11 01 83
 DATE OF INSPECTION: INSPECTOR:
 REMARKS:

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

11 1518250 15701 CON. CAN 02

COUNTY OR DISTRICT: Ottawa-Carleton TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: Goulbourn CON. BLOCK, TRACT, SURVEY, ETC.: Conc. 2 LOT: 023

OWNER (SURNAME FIRST): Star Quality Homes ADDRESS: Richmond Ontario KOA 220 DATE COMPLETED: DAY 28 MO 04 YR 83

ZONE: 18 EASTING: 434699 NORTHING: 5003299 RC: 4 ELEVATION: 0310 RC: 4 BASIN CODE: 26

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)					
GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
Red	Sand		Fill	0	2
Brown	Top Soil	Small Boulders	Packed	2	5
Gray	Hardpan		Packed	5	9
Gray	Limestone			9	115

MOE VF-18

31 000272891 00056021379 0009214179 0115215

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
10-13	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
15-18	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
20-23	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
25-28	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
30-33	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET
10-11	1 <input checked="" type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE		0 0020
11-18	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input checked="" type="checkbox"/> OPEN HOLE	188	20 0115
18-25	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE		

SCREEN

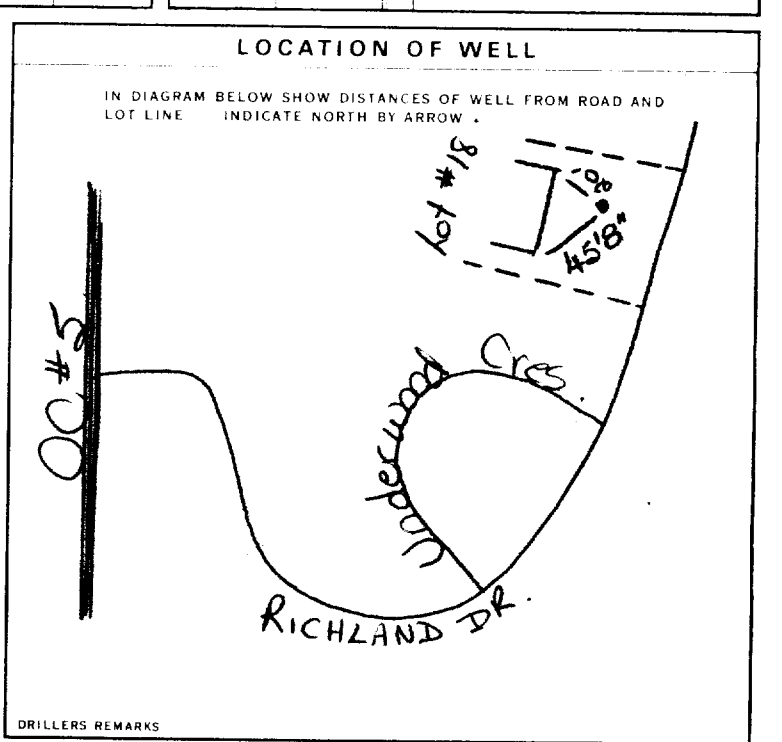
SIZE OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET	MATERIAL AND TYPE	CEMENT GROUT LEAD PACKER, ETC.
10-13		
18-21		
26-29		

71 PUMPING TEST

PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
1 <input checked="" type="checkbox"/> PUMP 2 <input type="checkbox"/> BAILER	0010 GPM	01 15-16 HOURS 00 MINS.
STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING
004 FEET	050 FEET	15 MINUTES: 050 FEET 30 MINUTES: 050 FEET 45 MINUTES: 050 FEET 60 MINUTES: 050 FEET
IF FLOWING GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST
	050 FEET	
RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING	RECOMMENDED PUMPING RATE
<input type="checkbox"/> SHALLOW <input checked="" type="checkbox"/> DEEP	050 FEET	0005 GPM



54 FINAL STATUS OF WELL: 1 WATER SUPPLY

55-56 WATER USE: 1 DOMESTIC

57 METHOD OF DRILLING: 5 AIR PERCUSSION

CONTRACTOR: Capital Water Supply Ltd. LICENCE NUMBER: 1558

ADDRESS: Box 490; Stittsville, Ont. KOA 390

NAME OF DRILLER OR BORER: W. Kavanagh

SIGNATURE OF CONTRACTOR: [Signature]

SUBMISSION DATE: 28 MO 04 YR 83

OFFICE USE ONLY

DATA SOURCE: 1 CONTRACTOR: 1558 DATE RECEIVED: 02 06 83

DATE OF INSPECTION: INSPECTOR:

REMARKS:



Ministry
of the
Environment
Ontario

The Ontario Water Resources Act

31648

WATER WELL RECORD

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

(11)

1518349

MUNICIPALITY 15701

CON. PART 03

COUNTY OR DISTRICT: **OTTAWA CARLETON** TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: **GOULBOURN** CON. BLOCK, TRACT, SURVEY ETC: **3** LOT: **023** DATE COMPLETED: **28** MO **07** YR **83**

RC 03599 RC 4 ELEVATION 0310 RC 4 BASIN CODE 26

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
BROWN	SAND	CLAY	PACKED	0'	8'
GRAY	LIMESTONE		SLABS	8'	16'
GRAY	LIMESTONE		HARD	16'	84'

31 0008280579 0016215 008421573

41 WATER RECORD

WATER FOUND AT FEET	KIND OF WATER			
10-13	1 <input checked="" type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	2 <input type="checkbox"/> SALTY	4 <input type="checkbox"/> MINERAL
15-18	1 <input checked="" type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	2 <input type="checkbox"/> SALTY	4 <input type="checkbox"/> MINERAL
20-23	1 <input type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	2 <input type="checkbox"/> SALTY	4 <input type="checkbox"/> MINERAL
25-28	1 <input type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	2 <input type="checkbox"/> SALTY	4 <input type="checkbox"/> MINERAL
30-33	1 <input type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	2 <input type="checkbox"/> SALTY	4 <input type="checkbox"/> MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
6 1/4	STEEL	1.88	0'	22'
6"	STEEL		22'	84'
6"	STEEL			
6"	STEEL			
6"	STEEL			

60 SCREEN

SIZE OF OPENING (SLOT NO.)	DIAMETER	LENGTH
	INCHES	FEET
		41-44
		10

61 PLUGGING & SEALING RECORD

DEPTH SET AT FEET	MATERIAL AND TYPE	CEMENT GROUT LEAD PACKER ETC.
10-13		
18-21		
26-29		

71 PUMPING TEST

PUMPING TEST METHOD: 1 PUMP 2 BAILER

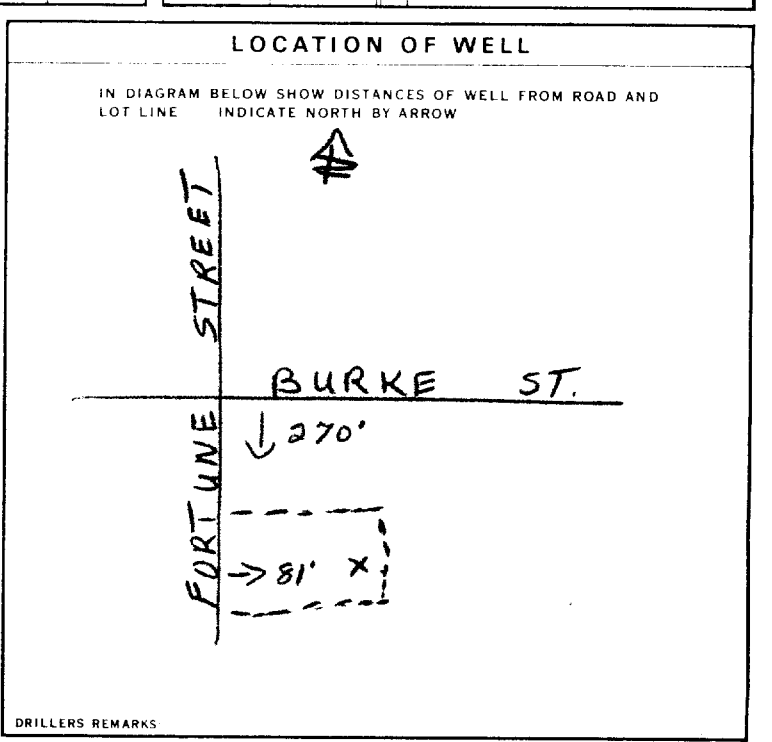
PUMPING RATE: 0010 GPM DURATION OF PUMPING: 01 HOURS 00 MINS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING			
022 FEET	047 FEET	15 MINUTES: 047 FEET	30 MINUTES: 047 FEET	45 MINUTES: 047 FEET	60 MINUTES: 047 FEET

RECOMMENDED PUMP TYPE: SHALLOW DEEP

RECOMMENDED PUMP SETTING: 060 FEET

RECOMMENDED PUMPING RATE: 0005 GPM



FINAL STATUS OF WELL

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

WATER USE

1 DOMESTIC 5 COMMERCIAL
2 STOCK 6 MUNICIPAL
3 IRRIGATION 7 PUBLIC SUPPLY
4 INDUSTRIAL 8 COOLING OR AIR CONDITIONING
9 OTHER

METHOD OF DRILLING

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

CONTRACTOR

NAME OF WELL CONTRACTOR: **M. KAVANAGH & SON** LICENCE NUMBER: **3142**

ADDRESS: **RR 2 CARLETON PLACE**

NAME OF DRILLER OR BORER: **MIKE KAVANAGH** LICENCE NUMBER: **3142**

SIGNATURE OF CONTRACTOR: *Michael Kavanagh* SUBMISSION DATE: **30** MO **7** YR **83**

OFFICE USE ONLY

DATA SOURCE: **1** CONTRACTOR: **3142** DATE RECEIVED: **04 08 83**

DATE OF INSPECTION: _____ INSPECTOR: _____

REMARKS: _____



Ministry
of the
Environment
Ontario

The Ontario Water Resources Act
WATER WELL RECORD

31648

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

11

1518535

MUNICIP 15701

CON. CON

03

COUNTY OR DISTRICT: **Compton** TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: **Richmond** CON. BLOCK, TRACT, SURVEY, ETC.: **023/023**
Burke St. Richmond, Ont.
 DATE COMPLETED: **03-08-83**
 NG: **03299** RC: **4** ELEVATION: **0310** RC: **4** BASIN CODE: **26**

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
Blue	Clay			0	14
	Limestone	Broken		14	63
	Limestone		Hard	63	85



31: **0014305** 32: **0063 1571** 33: **0085 1573**

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER			
10-13	1 <input checked="" type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	2 <input type="checkbox"/> SALTY	4 <input type="checkbox"/> MINERAL
15-18	1 <input checked="" type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	2 <input type="checkbox"/> SALTY	4 <input type="checkbox"/> MINERAL
20-23	1 <input checked="" type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	2 <input type="checkbox"/> SALTY	4 <input type="checkbox"/> MINERAL
25-28	1 <input type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	2 <input type="checkbox"/> SALTY	4 <input type="checkbox"/> MINERAL
30-33	1 <input type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	2 <input type="checkbox"/> SALTY	4 <input type="checkbox"/> MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
10-11	1 <input type="checkbox"/> STEEL		0	0018
17-18	1 <input type="checkbox"/> STEEL			
24-25	1 <input type="checkbox"/> STEEL			

SCREEN

SIZE/SLIT OF OPENING (SLOT NO. 1)	DIAMETER INCHES	LENGTH FEET
MATERIAL AND TYPE	DEPTH TO TOP OF SCREEN FEET	

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET	MATERIAL AND TYPE	CEMENT GROUT LEAD PACKER ETC.
10-13	18	Cement grout
18-21		
26-29		

71 PUMPING TEST

1 PUMP 2 BAILER

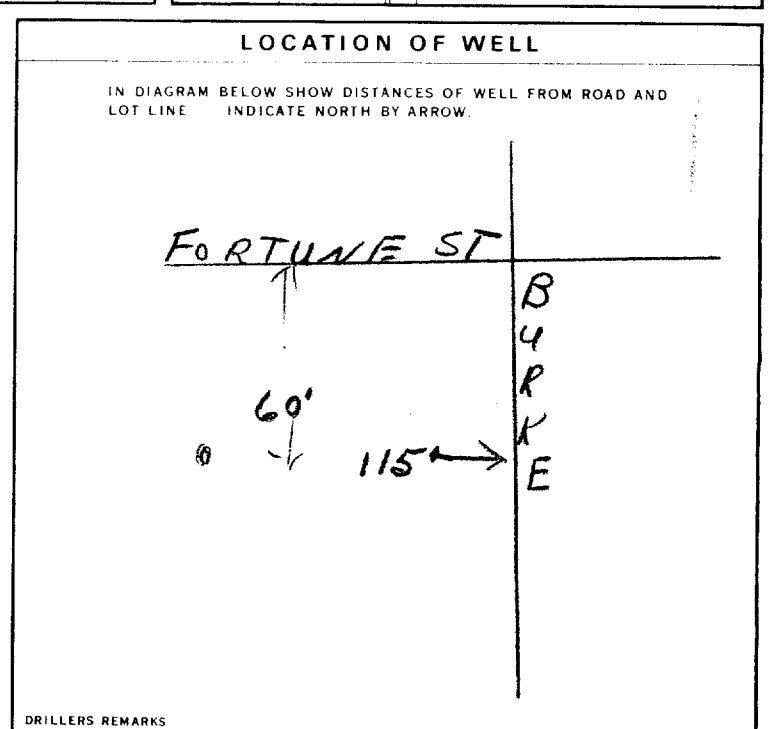
PUMPING RATE: **0005** GPM

DURATION OF PUMPING: **00** HOURS **30** MINS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING					
19-21	22-24	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES		
018 FEET	050 FEET	021 FEET	018 FEET	018 FEET			

RECOMMENDED PUMP TYPE: SHALLOW DEEP

RECOMMENDED PUMP SETTING: **070** FEET



FINAL STATUS OF WELL 1

WATER USE 01

METHOD OF DRILLING 4

CONTRACTOR

NAME OF WELL CONTRACTOR: **McLean Water Supply Ltd.** LICENCE NUMBER: **3504**

ADDRESS: **1532 R ven Ave. Ottawa, O t.**

NAME OF DRILLER OR BORER: **A. Scharf** LICENCE NUMBER: _____

SIGNATURE OF CONTRACTOR: *A. Scharf* SUBMISSION DATE: DAY **4** NO. **8** YR **83**

OFFICE USE ONLY

DATA SOURCE: **1** CONTRACTOR: **3504** DATE RECEIVED: **17 10 83**

DATE OF INSPECTION: _____ INSPECTOR: _____

REMARKS: _____

WATER WELL RECORD

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

(11)

1518709

MUNICIPALITY 157.01

CON. CGN

0.3

COUNTY OR DISTRICT: Carleton TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: Richmond CON. BLOCK, TRACT, SURVEY, ETC.: Queen St. LOT: 6022

OWNER (SURNAME FIRST): Tri Star Inc. ADDRESS: 74 Colonel Rd North, Nepean DATE COMPLETED: DAY 28 MO 10 YR 83

ZONE: 18 EASTING: 434399 NORTHING: 5003199 RC: 4 SECTION: 0310 BASIN CODE: 426

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	15
grey	limestone			15	84

(31) 001520512 0084215

(32)

(41) WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
10-13	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
15-18	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
20-23	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
25-28	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
30-33	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL

(51) CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
96	1 <input checked="" type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE	188	0	21
64	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE		21	84

(60) SCREEN

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET
	34-38	39-40

MATERIAL AND TYPE: _____ DEPTH TO TOP OF SCREEN: 41-44 FEET

(61) PLUGGING & SEALING RECORD

DEPTH SET AT - FEET	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)
0-21	0 21 cement grouted

(71) PUMPING TEST

PUMPING TEST METHOD: 1 PUMP 2 BAILER

PUMPING RATE: 0020 GPM DURATION OF PUMPING: 01:00 HOURS

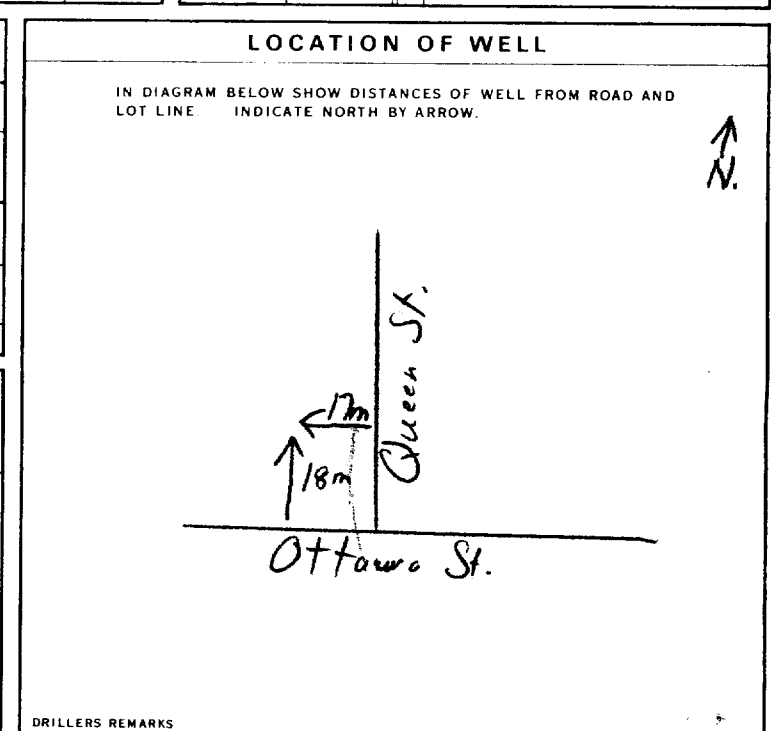
STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING PUMPING					
007	030	15 MINUTES: 030	30 MINUTES: 030	45 MINUTES: 030	60 MINUTES: 030		

IF FLOWING GIVE RATE: _____ PUMP INTAKE SET AT: _____ FEET

RECOMMENDED PUMP TYPE: SHALLOW DEEP

RECOMMENDED PUMP SETTING: 030 FEET

RECOMMENDED PUMPING RATE: 0010 GPM



FINAL STATUS OF WELL: 1 WATER SUPPLY

WATER USE: 01 DOMESTIC

METHOD OF DRILLING: 5 AIR PERCUSSION

CONTRACTOR: Henry Moring Well Drilling LICENCE NUMBER: 3644

ADDRESS: Box 326 Richmond Ont.

NAME OF DRILLER OR BORER: Jim Moring LICENCE NUMBER: _____

SIGNATURE OF CONTRACTOR: _____ SUBMISSION DATE: DAY 29 MO 10 YR 83

OFFICE USE ONLY

DATA SOURCE: 1 CONTRACTOR: 3644 DATE COMPLETED: 08 11 83

DATE OF INSPECTION: _____ INSPECTOR: _____

REMARKS: _____



Ministry of the Environment
Ontario

The Ontario Water Resources Act

WATER WELL RECORD

31645

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

11

1518712

MUNICIP. 15701

CON. Cdn

03

COUNTY OR DISTRICT: Carleton TOWNSHIP, BOROUGH, CY. OR VILLAGE: Richmond CON. BLOCK, TRACT, SURVEY, ETC.: Queen St. LOT: 022
Richmond Ont. DATE COMPLETED: DAY 13 MO 10 YR 83

RC. 003299 RC. 4 ELEVATION 0310 RC. 4 BASIN CODE 26

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
grey	fill			0	5
grey	limestone			5	43

31 0005201 0003215

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0038	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET
96	1 <input checked="" type="checkbox"/> STEEL	188	0 to 21
87	2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE		21 to 43

SCREEN

SIZES (S) OF OPENING (SLOT NO. 1)	DIAMETER INCHES	LENGTH FEET

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET	MATERIAL AND TYPE (CEMENT GROUT LEAD PACKER, ETC.)
0 to 21	Cement grouted

71 PUMPING TEST

PUMPING TEST METHOD: 1 PUMP 2 BAILER

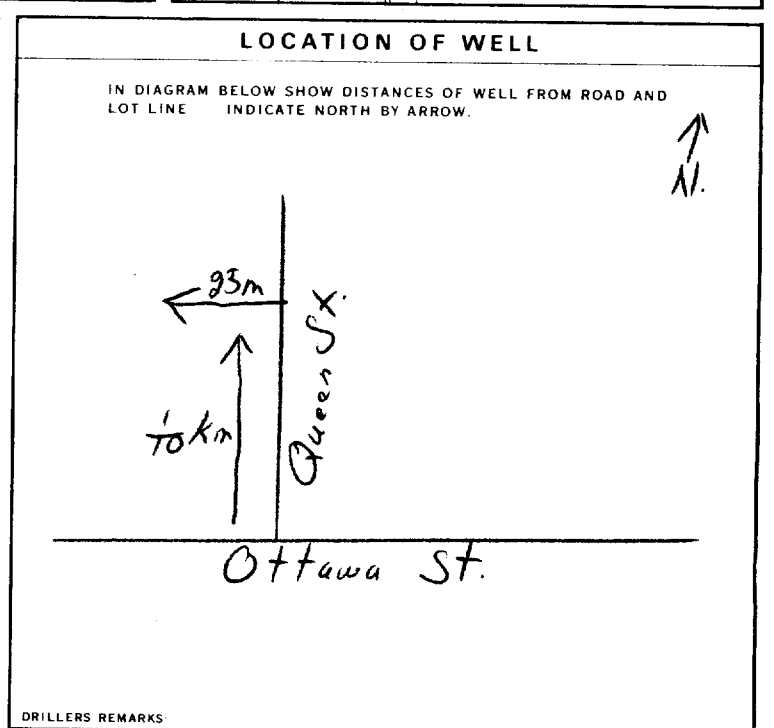
PUMPING RATE: 0020 GPM DURATION OF PUMPING: 01 00 HOURS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING
010	025	15 MINUTES: 025 30 MINUTES: 025 45 MINUTES: 025 60 MINUTES: 025

RECOMMENDED PUMP TYPE: SHALLOW DEEP

RECOMMENDED PUMP SETTING: 025 FEET

RECOMMENDED PUMPING RATE: 0010 GPM



FINAL STATUS OF WELL

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

WATER USE

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

METHOD OF DRILLING

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

CONTRACTOR

NAME OF WELL CONTRACTOR: Henry Main's Well Drilling LICENCE NUMBER: 3644
 ADDRESS: 326 Richmond Ont.
 NAME OF DRILLER OR BORER: Henry Main LICENCE NUMBER:
 SIGNATURE OF CONTRACTOR: [Signature] SUBMISSION DATE: DAY 15 MO 10 YR 83

OFFICE USE ONLY

DATA SOURCE: 1 CONTRACTOR: 3644 DATE RECEIVED: 09 11 83
 DATE OF INSPECTION: INSPECTOR:
 REMARKS:

WATER WELL RECORD

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

11

1518776

MUNICIPALITY 1570.1

CON. 022

03

COUNTY OR DISTRICT: Carleton TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: Richmond CON. BLOCK, TRACT, SURVEY: Queen St. DATE COMPLETED: DAY 15 MO 12 YR 83

Richmond Ont.

NG: 03299 RC: 4 ELEVATION: 031.0 RC: 4 BASIN CODE: 26

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
grey	clay	stone		0	6
grey	limestone			6	63

31 0006265/12 0063215

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
10-13 <u>0058</u>	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
15-18	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
20-23	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
25-28	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
30-33	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
<u>96</u> <u>89</u>	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE	<u>188</u>	<u>0</u>	<u>21</u>
<u>06</u>	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE		<u>21</u>	<u>63</u>

SCREEN

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

MATERIAL AND TYPE: _____ DEPTH TO TOP OF SCREEN: _____

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET	MATERIAL AND TYPE (CEMENT GROUT LEAD PACKER, ETC.)
<u>0</u> <u>21</u>	<u>cement</u>

71 PUMPING TEST

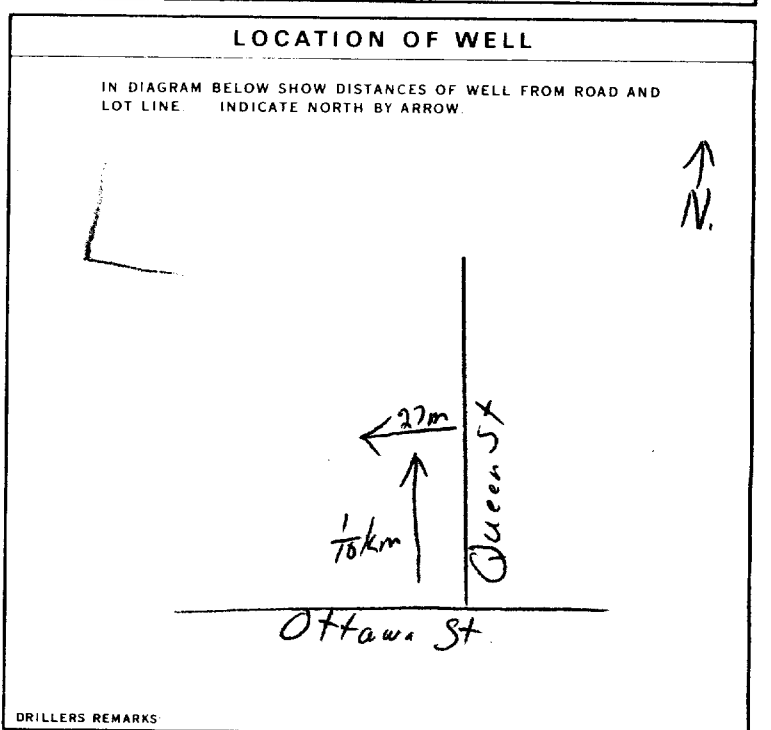
PUMPING TEST METHOD: 1 PUMP 2 BAILER

PUMPING RATE: 0020 GPM DURATION OF PUMPING: 01 HOURS 00 MINS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING
19-21 <u>005</u>	22-24 <u>025</u>	15 MINUTES: <u>025</u> 30 MINUTES: <u>025</u> 45 MINUTES: <u>025</u> 60 MINUTES: <u>025</u>

IF FLOWING, GIVE RATE: _____ PUMP INTAKE SET AT: _____ WATER AT END OF TEST: _____

RECOMMENDED PUMP TYPE: SHALLOW DEEP RECOMMENDED PUMP SETTING: 025 FEET RECOMMENDED PUMPING RATE: 0010 GPM



FINAL STATUS OF WELL

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

WATER USE

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

METHOD OF DRILLING

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

CONTRACTOR

NAME OF WELL CONTRACTOR: Henry Mains Well Drilling LICENCE NUMBER: 3644
ADDRESS: 136 326, Richmond Ont.
NAME OF DRILLER OR BORER: Henry Mains LICENCE NUMBER: _____
SIGNATURE OF CONTRACTOR: _____ SUBMISSION DATE: DAY 19 MO 12 YR 83

OFFICE USE ONLY

DATA SOURCE: 1 CONTRACTOR: 3644 DATE RECEIVED: 10 01 84
DATE OF INSPECTION: _____ INSPECTOR: _____
REMARKS: _____

WATER WELL RECORD

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

11

1518777

MUNICIPALITY 15.70.1

CON. CPN

03

COUNTY OR DISTRICT: Carleton TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: Richmond CON. BLOCK, TRACT, SURVEY, ET AL: Queen St. LOT: 2022

DATE COMPLETED: DAY 07 MO 11 YR 83

INC. 003299 RC 4 ELEVATION 031.0 RC 4 BASIN CODE 2.6

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)				
GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	DEPTH - FEET	
			FROM	TO
<u>grey</u>	<u>clay</u>	<u>stones</u>	<u>0</u>	<u>2</u>
<u>grey</u>	<u>limestone</u>		<u>2</u>	<u>63</u>

31 000220512 0062215

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
<u>0059</u>	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
<u>001 1/4</u>	1 <input checked="" type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE	<u>188</u>	<u>0</u>	<u>21</u>
<u>06</u>	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input checked="" type="checkbox"/> OPEN HOLE		<u>21</u>	<u>63</u>

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	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)
<u>10-13</u>	<u>14-17</u>
<u>18-21</u>	<u>22-25</u>
<u>26-29</u>	<u>30-33</u>

71 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			
<u>006</u> FEET	<u>025</u> FEET	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
		<u>025</u>	<u>025</u>	<u>025</u>	<u>025</u>

IF FLOWING, GIVE RATE: _____ GPM

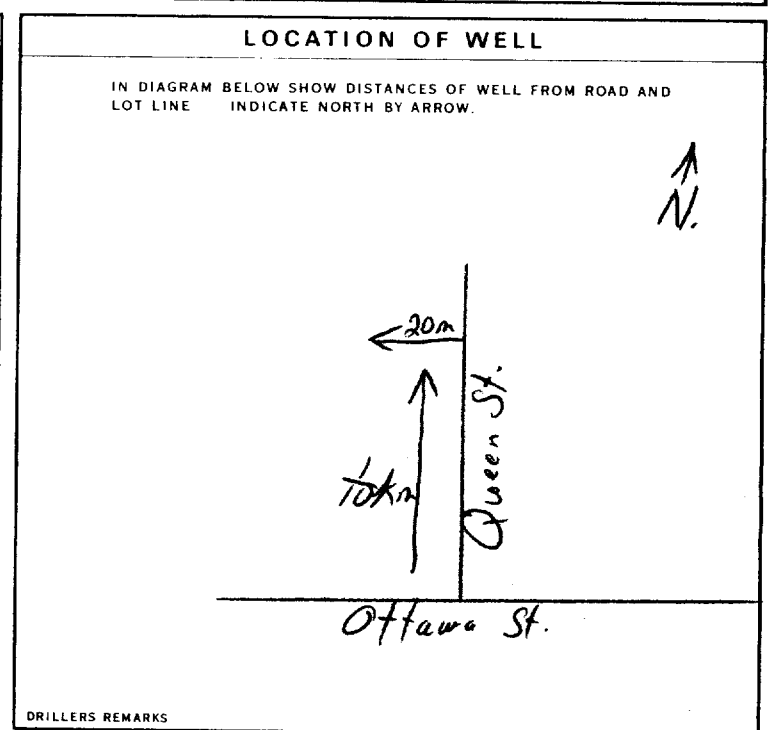
PUMP INTAKE SET AT: _____ FEET

WATER AT END OF TEST: _____ FEET

RECOMMENDED PUMP TYPE: SHALLOW DEEP

RECOMMENDED PUMP SETTING: 025 FEET

RECOMMENDED PUMPING RATE: 0010 GPM



FINAL STATUS OF WELL: 1 WATER SUPPLY

WATER USE: 1 DOMESTIC

METHOD OF DRILLING: 5 AIR PERCUSSION

CONTRACTOR: Sherry Marie Well Drilling LICENCE NUMBER: 3644

ADDRESS: Box 326, Richmond Ont.

NAME OF DRILLER OR BORER: Sherry Marie LICENCE NUMBER: _____

SIGNATURE OF CONTRACTOR: _____ SUBMISSION DATE: DAY 12 MO 11 YR 83

OFFICE USE ONLY

DATA SOURCE: 1 CONTRACTOR: 3644 DATE RECEIVED: 10 01 84

DATE OF INSPECTION: _____ INSPECTOR: _____

REMARKS: _____

WATER WELL RECORD

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

11

1519025

MUNICIPALITY 15.70.1

CON. C.P.N.

03

COUNTY OR DISTRICT: Carleton Place TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: Richmond CON. BLOCK, TRACT, SURVEY ETC.: Queen St. LOT: 5022

Richmond Ont. DATE COMPLETED: DAY 18 MO 05 YR 84

ING: 03299 RC: 4 ELEVATION: 0310 RC: 4 BASIN CODE: 26

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)				
GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	DEPTH - FEET	
			FROM	TO
<u>grey</u>	<u>clay</u>	<u>gravel</u>	<u>0</u>	<u>10</u>
<u>grey</u>	<u>limestone</u>		<u>10</u>	<u>63</u>

31 001020511 0063315

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
10-15 <u>0058</u>	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
15-18	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
20-23	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
25-28	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
30-33	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET
10-11 <u>06 1/4</u>	1 <input checked="" type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE	<u>-188</u>	<u>0 to 22</u>
17-18 <u>06</u>	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE		<u>22 to 63</u>
24-25	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE		<u>27-30</u>

SCREEN

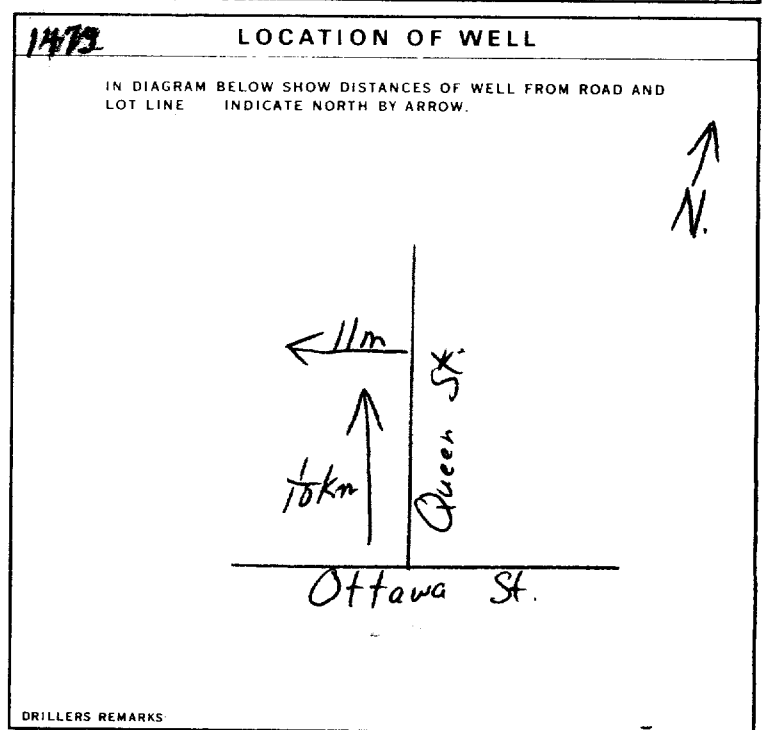
SIZE(S) OF OPENING (SLOT NO.)	DIAMETER	LENGTH
	INCHES	FEET
MATERIAL AND TYPE	DEPTH TO TOP OF SCREEN	
	INCHES	FEET

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)
FROM TO	
<u>0</u> <u>22</u>	<u>cannot grouted</u>
18-21	22-25
26-29	30-33

71 PUMPING TEST

PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
1 <input type="checkbox"/> PUMP 2 <input type="checkbox"/> BAILER	<u>0020</u> GPM	<u>01/00</u> HOURS
STATIC LEVEL	WATER LEVELS DURING PUMPING	WATER LEVEL AT END OF TEST
19-21 <u>006</u> FEET	15 MINUTES <u>030</u> FEET	1 <input checked="" type="checkbox"/> PUMPING 2 <input type="checkbox"/> RECOVERY
	30 MINUTES <u>030</u> FEET	
	45 MINUTES <u>030</u> FEET	
	60 MINUTES <u>030</u> FEET	
IF FLOWING, GIVE RATE	PUMP INTAKE SET AT	RECOMMENDED PUMP SETTING
	<u>030</u> FEET	<u>030</u> FEET
RECOMMENDED PUMP TYPE	RECOMMENDED PUMPING RATE	
<input type="checkbox"/> SHALLOW <input type="checkbox"/> DEEP	<u>00/0</u> GPM	



FINAL STATUS OF WELL

WATER USE

METHOD OF DRILLING

CONTRACTOR

NAME OF WELL CONTRACTOR: Henry Maine Well Drilling LICENCE NUMBER: 3644

ADDRESS: Box 326 Richmond Ont.

NAME OF DRILLER OR BORER: [Signature] LICENCE NUMBER: _____

SIGNATURE OF CONTRACTOR: [Signature] SUBMISSION DATE: DAY 20 MO 5 YR 84

OFFICE USE ONLY

DATA SOURCE: 1 CONTRACTOR: 3644 DATE RECEIVED: 030784

DATE OF INSPECTION: _____ INSPECTOR: _____

REMARKS: _____

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

11

1519027

MUNICIPALITY 15701

CON. CQN

03

COUNTY OR DISTRICT: Carleton Place TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: Richmond CON. BLOCK, TRACT, SURVEY ETC.: Queen St LOT: 023
 DATE COMPLETED: DAY 02 MO 05 YR 84
 R.C. NO.: 03199 ELEVATION: 0310 BASIN CODE: 26

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)					
GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
grey	clay	stone		0	12
grey	hardpan			12	19
grey	limestone			19	84

31 001270512 0019214 0084215
 32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER			
10-13	1 <input checked="" type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	4 <input type="checkbox"/> MINERAL	2 <input type="checkbox"/> SALTY
15-18	1 <input type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	4 <input type="checkbox"/> MINERAL	2 <input type="checkbox"/> SALTY
20-23	1 <input type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	4 <input type="checkbox"/> MINERAL	2 <input type="checkbox"/> SALTY
25-28	1 <input type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	4 <input type="checkbox"/> MINERAL	2 <input type="checkbox"/> SALTY
30-33	1 <input type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	4 <input type="checkbox"/> MINERAL	2 <input type="checkbox"/> SALTY

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
06-11	1 <input checked="" type="checkbox"/> STEEL	12	0	13-16
12-17	2 <input type="checkbox"/> GALVANIZED	188	0	17-18
17-18	1 <input type="checkbox"/> CONCRETE			20-23
18-23	4 <input type="checkbox"/> OPEN HOLE			24-25
24-25	1 <input type="checkbox"/> STEEL	26		27-30
26-27	2 <input type="checkbox"/> GALVANIZED			
28-29	3 <input type="checkbox"/> CONCRETE			
30-33	4 <input type="checkbox"/> OPEN HOLE			

SCREEN

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

61 PLUGGING & SEALING RECORD

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

71 PUMPING TEST METHOD

1 PUMP 2 BAILER

PUMPING RATE: 0020 GPM

DURATION OF PUMPING: 01 HOURS 00 MINS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING PUMPING			
19-21	22-24	15-MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
<u>008</u> FEET	<u>030</u> FEET	<u>030</u> FEET	<u>030</u> FEET	<u>030</u> FEET	<u>030</u> FEET

IF FLOWING, GIVE RATE: _____ GPM

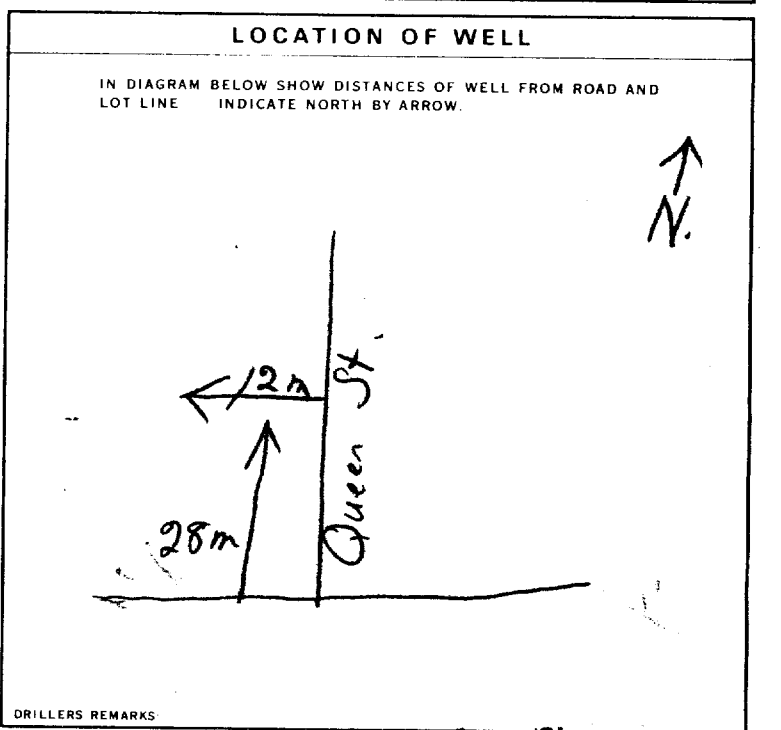
PUMP INTAKE SET AT: _____ FEET

WATER AT END OF TEST: _____ FEET

RECOMMENDED PUMP TYPE: SHALLOW DEEP

RECOMMENDED PUMP SETTING: 030 FEET

RECOMMENDED PUMPING RATE: 0006 GPM



FINAL STATUS OF WELL

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

WATER USE

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

METHOD OF DRILLING

5 AIR PERCUSSION 6 BORING
 2 ROTARY (CONVENTIONAL) 7 DIAMOND
 3 ROTARY (REVERSE) 8 JETTING
 4 ROTARY (AIR) 9 DRIVING

CONTRACTOR

NAME OF WELL CONTRACTOR: Henry Mains Well Drilling LICENCE NUMBER: 3644
 ADDRESS: Box 326 Richmond Ont.
 NAME OF DRILLER OR BORER: H. Mains LICENCE NUMBER: _____
 SIGNATURE OF CONTRACTOR: _____ SUBMISSION DATE: DAY 2 MO 5 YR 84

OFFICE USE ONLY

DATA SOURCE: 1 CONTRACTOR: 3644 DATE RECEIVED: 03 07 84
 DATE OF INSPECTION: _____ INSPECTOR: _____
 REMARKS: _____

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

11 1524982 15704 CON 102

COUNTY OR DISTRICT: Coventry TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: Richmond (Leadbarn) CON. BLOCK, TRACT, SURVEY, ETC.: Com 2 LOT: 22
DATE COMPLETED: DAY 29 MO 8 YR 90

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
grey	clay	gravel		0	5
grey	limestone			5	83

31 32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER					
76	<input checked="" type="checkbox"/> FRESH	<input type="checkbox"/> SALTY	<input type="checkbox"/> SULPHUR	<input type="checkbox"/> MINERALS	<input type="checkbox"/> GAS	
15-18	<input type="checkbox"/> FRESH	<input type="checkbox"/> SALTY	<input type="checkbox"/> SULPHUR	<input type="checkbox"/> MINERALS	<input type="checkbox"/> GAS	
20-23	<input type="checkbox"/> FRESH	<input type="checkbox"/> SALTY	<input type="checkbox"/> SULPHUR	<input type="checkbox"/> MINERALS	<input type="checkbox"/> GAS	
25-28	<input type="checkbox"/> FRESH	<input type="checkbox"/> SALTY	<input type="checkbox"/> SULPHUR	<input type="checkbox"/> MINERALS	<input type="checkbox"/> GAS	
30-33	<input type="checkbox"/> FRESH	<input type="checkbox"/> SALTY	<input type="checkbox"/> SULPHUR	<input type="checkbox"/> MINERALS	<input type="checkbox"/> GAS	

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
69	1 <input checked="" type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE 5 <input type="checkbox"/> PLASTIC	188	0	22
6	1 <input checked="" type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE 5 <input type="checkbox"/> PLASTIC		22	83

SCREEN

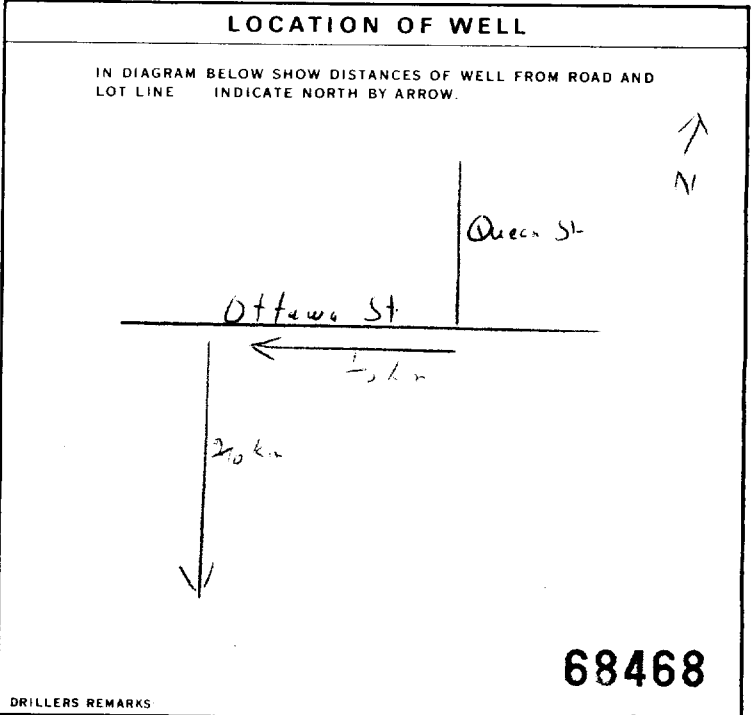
SIZE(S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET
	34-38	39-40
MATERIAL AND TYPE		DEPTH TO TOP OF SCREEN 41-44 FEET

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)
0-22	Cement grouted
18-21	
22-25	
26-29	
30-33	

71 PUMPING TEST

PUMPING TEST METHOD	PUMPING RATE GPM	DURATION OF PUMPING HOURS
1 <input checked="" type="checkbox"/> AIR 2 <input type="checkbox"/> BAILER	25	1 0
STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING
8	70	15 MINUTES: 70, 30 MINUTES: 70, 45 MINUTES: 70, 60 MINUTES: 70
IF FLOWING, GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST
	70	20
RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING	RECOMMENDED PUMPING RATE
<input type="checkbox"/> SHALLOW <input checked="" type="checkbox"/> DEEP	70	20



FINAL STATUS OF WELL

1 <input type="checkbox"/> WATER SUPPLY	5 <input type="checkbox"/> ABANDONED, INSUFFICIENT SUPPLY
2 <input type="checkbox"/> OBSERVATION WELL	6 <input type="checkbox"/> ABANDONED POOR QUALITY
3 <input checked="" type="checkbox"/> TEST HOLE	7 <input type="checkbox"/> UNFINISHED
4 <input type="checkbox"/> RECHARGE WELL	<input type="checkbox"/> DEWATERING

WATER USE

1 <input checked="" type="checkbox"/> DOMESTIC	5 <input type="checkbox"/> COMMERCIAL
2 <input type="checkbox"/> STOCK	6 <input type="checkbox"/> MUNICIPAL
3 <input type="checkbox"/> IRRIGATION	7 <input type="checkbox"/> PUBLIC SUPPLY
4 <input type="checkbox"/> INDUSTRIAL	8 <input type="checkbox"/> COOLING OR AIR CONDITIONING
<input type="checkbox"/> OTHER	9 <input type="checkbox"/> NOT USED

METHOD OF CONSTRUCTION

1 <input type="checkbox"/> CABLE TOOL	6 <input type="checkbox"/> BORING
2 <input type="checkbox"/> ROTARY (CONVENTIONAL)	7 <input type="checkbox"/> DIAMOND
3 <input type="checkbox"/> ROTARY (REVERSE)	8 <input type="checkbox"/> JETTING
4 <input type="checkbox"/> ROTARY (AIR)	9 <input type="checkbox"/> DRIVING
5 <input checked="" type="checkbox"/> AIR PERCUSSION	<input type="checkbox"/> DIGGING <input type="checkbox"/> OTHER

CONTRACTOR

NAME OF WELL CONTRACTOR: Ad Marris Well Drilling WELL CONTRACTOR'S LICENCE NUMBER: 3644
ADDRESS: Box 326, Richmond Ont.
NAME OF WELL TECHNICIAN: [Signature] WELL TECHNICIAN'S LICENCE NUMBER:
SIGNATURE OF TECHNICIAN/CONTRACTOR: [Signature] SUBMISSION DATE: DAY 2 MO. YR.

OFFICE USE ONLY

DATA SOURCE: 3644 DATE RECEIVED: SEP 17 1990
DATE OF INSPECTION: INSPECTOR:
REMARKS:

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

11 1524983 MUNICIPAL 15704 CON. 102

COUNTY OR DISTRICT: *Carleton Place* TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: *Richmond (Galloway)* CON. BLOCK, TRACT, SURVEY, ETC.: *Con 2* LOT: *22*
DATE COMPLETED: DAY *29* MO *8* YR *90*

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
<i>grey</i>	<i>clay</i>	<i>gravel</i>		<i>0</i>	<i>1</i>
<i>grey</i>	<i>limestone</i>			<i>1</i>	<i>123</i>

31 32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER					
10-13 <i>118</i>	1 <input checked="" type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	4 <input type="checkbox"/> MINERALS	5 <input type="checkbox"/> GAS	6 <input type="checkbox"/>	7 <input type="checkbox"/>
15-18	1 <input type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	4 <input type="checkbox"/> MINERALS	5 <input type="checkbox"/> GAS	6 <input type="checkbox"/>	7 <input type="checkbox"/>
20-23	1 <input type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	4 <input type="checkbox"/> MINERALS	5 <input type="checkbox"/> GAS	6 <input type="checkbox"/>	7 <input type="checkbox"/>
25-28	1 <input type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	4 <input type="checkbox"/> MINERALS	5 <input type="checkbox"/> GAS	6 <input type="checkbox"/>	7 <input type="checkbox"/>
30-33	1 <input type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	4 <input type="checkbox"/> MINERALS	5 <input type="checkbox"/> GAS	6 <input type="checkbox"/>	7 <input type="checkbox"/>

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
10-11 <i>67</i>	1 <input checked="" type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE 5 <input type="checkbox"/> PLASTIC	<i>1/88</i>	<i>0</i>	<i>22</i>
17-18 <i>6</i>	1 <input checked="" type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE 5 <input type="checkbox"/> PLASTIC		<i>22</i>	<i>123</i>
24-25	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE 5 <input type="checkbox"/> PLASTIC			

SCREEN

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

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)
FROM TO	
<i>0</i> <i>10-13</i> <i>22</i> <i>123</i>	<i>Cement grouted</i>
<i>18-21</i> <i>22-25</i>	
<i>26-29</i> <i>30-33</i>	

71 PUMPING TEST

PUMPING TEST METHOD: 1 <input checked="" type="checkbox"/> AIR PUMP 2 <input type="checkbox"/> BAILER	PUMPING RATE: <i>5</i> GPM	DURATION OF PUMPING: <i>1</i> HOURS <i>0</i> MINS
STATIC LEVEL: <i>8</i> FEET	WATER LEVEL END OF PUMPING: <i>110</i> FEET	WATER LEVELS DURING:
		15 MINUTES: <i>110</i> FEET
		30 MINUTES: <i>110</i> FEET
		45 MINUTES: <i>110</i> FEET
		60 MINUTES: <i>110</i> FEET
IF FLOWING, GIVE RATE	PUMP INTAKE SET AT: <i>110</i> FEET	WATER AT END OF TEST: <i>42</i> FEET
RECOMMENDED PUMP TYPE: <input checked="" type="checkbox"/> SHALLOW <input checked="" type="checkbox"/> DEEP	RECOMMENDED PUMP SETTING: <i>110</i> FEET	RECOMMENDED PUMPING RATE: <i>5</i> GPM

LOCATION OF WELL

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

68466

FINAL STATUS OF WELL

1 <input type="checkbox"/> WATER SUPPLY	5 <input type="checkbox"/> ABANDONED, INSUFFICIENT SUPPLY
2 <input type="checkbox"/> OBSERVATION WELL	6 <input type="checkbox"/> ABANDONED POOR QUALITY
3 <input checked="" type="checkbox"/> TEST HOLE	7 <input type="checkbox"/> UNFINISHED
4 <input type="checkbox"/> RECHARGE WELL	<input type="checkbox"/> DEWATERING

WATER USE

1 <input checked="" type="checkbox"/> DOMESTIC	5 <input type="checkbox"/> COMMERCIAL
2 <input type="checkbox"/> STOCK	6 <input type="checkbox"/> MUNICIPAL
3 <input type="checkbox"/> IRRIGATION	7 <input type="checkbox"/> PUBLIC SUPPLY
4 <input type="checkbox"/> INDUSTRIAL	8 <input type="checkbox"/> COOLING OR AIR CONDITIONING
<input type="checkbox"/> OTHER	9 <input type="checkbox"/> NOT USED

METHOD OF CONSTRUCTION

1 <input type="checkbox"/> CABLE TOOL	6 <input type="checkbox"/> BORING
2 <input type="checkbox"/> ROTARY (CONVENTIONAL)	7 <input type="checkbox"/> DIAMOND
3 <input type="checkbox"/> ROTARY (REVERSE)	8 <input type="checkbox"/> JETTING
4 <input type="checkbox"/> ROTARY (AIR)	9 <input type="checkbox"/> DRIVING
5 <input checked="" type="checkbox"/> AIR PERCUSSION	<input type="checkbox"/> DIGGING <input type="checkbox"/> OTHER

CONTRACTOR

NAME OF WELL CONTRACTOR: *The Maine Well Drilling*
WELL CONTRACTOR'S LICENCE NUMBER: *3644*
ADDRESS: *Box 326, Richmond Ont.*
NAME OF WELL TECHNICIAN: *[Signature]*
WELL TECHNICIAN'S LICENCE NUMBER:
SIGNATURE OF TECHNICIAN/CONTRACTOR: *[Signature]*
SUBMISSION DATE: DAY _____ MO _____ YR _____

OFFICE USE ONLY

DATA SOURCE: *3644* CONTRACTOR: *3644* DATE RECEIVED: *SEP 17 1990*
DATE OF INSPECTION: _____ INSPECTOR: _____
REMARKS:

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

11

1532281

Municipality 15701 Con. Parts Plan 4R16195

County or District: Ottawa-Carleton Township/Borough/City/Town/Village: Richmond, 6297 Ottawa St #3 Con block tract survey, etc.: Lot: 23
 Owner's surname: Glennon Holmes First Name: Address: Richmond, Ont Date completed: 01/08/01

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	To
	Sand	gravel		0	28
grey	limestone			28	63

31 32

41 WATER RECORD

Water found at - feet	Kind of water
50	1 <input checked="" type="checkbox"/> Fresh 3 <input type="checkbox"/> Sulphur 14 2 <input type="checkbox"/> Salty 4 <input type="checkbox"/> Minerals 5 <input type="checkbox"/> Gas
53	1 <input checked="" type="checkbox"/> Fresh 3 <input type="checkbox"/> Sulphur 19 2 <input type="checkbox"/> Salty 4 <input type="checkbox"/> Minerals 5 <input type="checkbox"/> Gas
55	1 <input checked="" type="checkbox"/> Fresh 3 <input type="checkbox"/> Sulphur 24 2 <input type="checkbox"/> Salty 4 <input type="checkbox"/> Minerals 5 <input type="checkbox"/> Gas
25-28	1 <input type="checkbox"/> Fresh 3 <input type="checkbox"/> Sulphur 29 2 <input type="checkbox"/> Salty 4 <input type="checkbox"/> Minerals 5 <input type="checkbox"/> Gas
30-33	1 <input type="checkbox"/> Fresh 3 <input type="checkbox"/> Sulphur 34 2 <input type="checkbox"/> Salty 4 <input type="checkbox"/> Minerals 5 <input type="checkbox"/> Gas

51 CASING & OPEN HOLE RECORD

Inside diam inches	Material	Wall thickness inches	Depth - feet	
			From	To
6 1/4	1 <input checked="" type="checkbox"/> Steel 12 2 <input type="checkbox"/> Galvanized 3 <input type="checkbox"/> Concrete 4 <input type="checkbox"/> Open hole 5 <input type="checkbox"/> Plastic	188	0	33
8 3/4	1 <input type="checkbox"/> Steel 19 2 <input type="checkbox"/> Galvanized 3 <input type="checkbox"/> Concrete 4 <input checked="" type="checkbox"/> Open hole 5 <input type="checkbox"/> Plastic		0	31
6	1 <input type="checkbox"/> Steel 26 2 <input type="checkbox"/> Galvanized 3 <input type="checkbox"/> Concrete 4 <input checked="" type="checkbox"/> Open hole 5 <input type="checkbox"/> Plastic		31	63

SCREEN

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

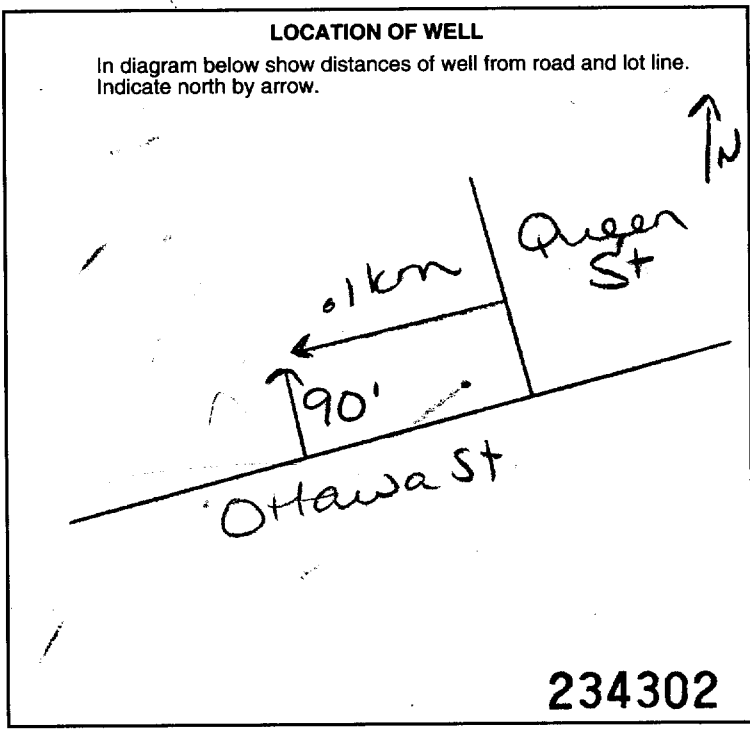
Material and type: Depth at top of screen: feet

61 PLUGGING & SEALING RECORD

Depth set at - feet		Material and type (Cement grout, bentonite, etc.)
From	To	
2	13	33 cement grout
18-21	22-25	
26-29	30-33	

71 PUMPING TEST

Pumping test method	Pumping rate	Duration of pumping
1 <input checked="" type="checkbox"/> Pump 2 <input type="checkbox"/> Bailer	25 GPM	1 Hours 17-18 Mins
Static level: 13 feet	Water level end of pumping: 50 feet	Water levels during:
		15 minutes: 13 feet
		30 minutes: 13 feet
		45 minutes: 13 feet
		60 minutes: 13 feet
If flowing give rate: GPM	Pump intake set at: 50 feet	Water at end of test: <input type="checkbox"/> Clear <input checked="" type="checkbox"/> Cloudy
Recommended pump type: <input checked="" type="checkbox"/> Shallow <input type="checkbox"/> Deep	Recommended pump setting: 50 feet	Recommended pump rate: 25 GPM



FINAL STATUS OF WELL

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

WATER USE

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

METHOD OF CONSTRUCTION

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

Name of Well Contractor: Mikoch Drilling Ltd Well Contractor's Licence No.: 1119
 Address: Rte #2 Jasper, Ont
 Name of Well Technician: Shannon Purcell Well Technician's Licence No.: Ta122
 Signature of Technician/Contractor: Submission date: 12/08/01

MINISTRY USE ONLY

Data source: 1119 Date received: SEP 20 2001
 Date of inspection: Inspector:
 Remarks: CSS.ES1



Instructions for Completing Form

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

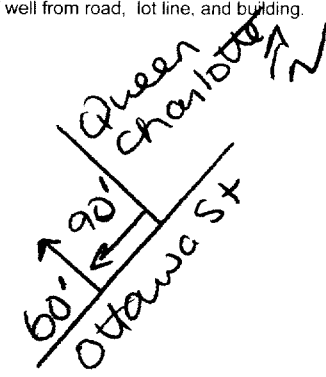
Ministry Use Only

Address of Well Location (County/District/Municipality) Ottawa Carleton Township Goulbourn Lot 22 Concession 3 RR#/Street Number/Name 6291 Ottawa St City/Town/Village Site/Compartment/Block/Tract etc. Lot 112 Plan 4R1675 GPS Reading NAD Zone Easting Northing Unit Make/Model Mode of Operation: Undifferentiated Averaged Differentiated, specify

Log of Overburden and Bedrock Materials (see instructions)

Table with columns: General Colour, Most common material, Other Materials, General Description, Depth From, Metres To. Handwritten entries: grey clay + gravel, limestone, 0 to 5.18, 5.18 to 30.5.

Hole Diameter, Construction Record, Test of Well Yield, Water Record, Plugging and Sealing Record, Location of Well, Method of Construction, Water Use, Final Status of Well, Well Contractor/Technician Information. Includes handwritten data for hole diameter (0-30.5m), casing (1588 galvanized steel, .48m thick, 6.7m deep), pumping test results, and plugging details (6.1m cement slurry, 0.2724 cubic metres).



Method of Construction: Air percussion. Water Use: Domestic. Final Status of Well: Water Supply. Well Contractor/Technician Information: Ari-Rock Drilling Co Ltd, Shannon, 2004-06-01.

Audit No. Z 04931, Date Well Completed 2004 05 11, Date Delivered 2004 05 12, Date Received JUN 07 2004, Date of Inspection, Well Record Number 1534653.

A 013715

Instructions for Completing Form

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

Well Owner's Information and Location of Well Information

Ministry Use Only

MUN **15002** CON **CON** 02 LOT **22**

Ottawa Carleton
RR#/Street Number/Name
441 Sargeet Place

Goulbourn
City/Town/Village

Richmond
Site/Compartment/Block/Tract etc.

GPS Reading NAD Zone Easting Northing
8 3 18 **43 39 18** **50 02 89 8**

Unit Make/Model **Garmin** Mode of Operation: Undifferentiated Averaged
 Differentiated, specify

Log of Overburden and Bedrock Materials (see instructions)

General Colour	Most common material	Other Materials	General Description	Depth	
				From	Metres To
Gray	Limestone		Hard	0	36.57

Hole Diameter			Construction Record				Test of Well Yield					
Depth From	Metres To	Diameter Centimetres	Inside diam centimetres	Material	Wall thickness centimetres	Depth From	Metres To	Pumping test method	Draw Down Time min	Water Level Metres	Recovery Time min	Water Level Metres
0	6.55	22.75						submersible				
6.55	36.57	15.23	15.86	<input checked="" type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized	0.48	+ 1.82	6.55	Pump intake set at - (metres) 30.47	Static Level 4.86			
Water Record			Casing				Pumping rate - (litres/min) 54.6					
Water found at Metres	Kind of Water		Screen				Duration of pumping 1 hrs + ___ min					
15.24	<input type="checkbox"/> Fresh <input type="checkbox"/> Sulphur <input type="checkbox"/> Gas <input type="checkbox"/> Salty <input type="checkbox"/> Minerals <input type="checkbox"/> Other:		<input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized				Final water level end of pumping 9.05 metres					
33.52	<input type="checkbox"/> Fresh <input type="checkbox"/> Sulphur <input type="checkbox"/> Gas <input type="checkbox"/> Salty <input type="checkbox"/> Minerals <input type="checkbox"/> Other:		<input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized				Recommended pump type. <input type="checkbox"/> Shallow <input checked="" type="checkbox"/> Deep					
After test of well yield, water was <input checked="" type="checkbox"/> Clear and sediment free <input type="checkbox"/> Other, specify			No Casing or Screen				Recommended pump depth 332.85 metres					
Chlorinated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	15.23 <input checked="" type="checkbox"/> Open hole				6.55		36.57		Recommended pump rate. (litres/min) 15.5			
Plugging and Sealing Record			Test of Well Yield									
Depth set at - Metres From	To	Material and type (bentonite slurry, neat cement slurry) etc.	Volume Placed (cubic metres)		If flowing give rate - (litres/min)							
6.55	0	Grouted - Bentonite Slurry	0.11m3		20 8.81 20 4.93							
Method of Construction			Location of Well									
<input type="checkbox"/> Cable Tool	<input type="checkbox"/> Rotary (air)	<input type="checkbox"/> Diamond	In diagram below show distances of well from road, lot line, and building. Indicate north by arrow.									
<input type="checkbox"/> Rotary (conventional)	<input checked="" type="checkbox"/> Air percussion	<input type="checkbox"/> Jetting										
<input type="checkbox"/> Rotary (reverse)	<input type="checkbox"/> Boring	<input type="checkbox"/> Driving	<p>Water Use</p> <input checked="" type="checkbox"/> Domestic <input type="checkbox"/> Industrial <input type="checkbox"/> Public Supply <input type="checkbox"/> Other <input type="checkbox"/> Stock <input type="checkbox"/> Commercial <input type="checkbox"/> Not used <input type="checkbox"/> Irrigation <input type="checkbox"/> Municipal <input type="checkbox"/> Cooling & air conditioning									
Final Status of Well			Ministry Use Only									
<input checked="" type="checkbox"/> Water Supply	<input type="checkbox"/> Recharge well	<input type="checkbox"/> Unfinished	Data Source									
<input type="checkbox"/> Observation well	<input type="checkbox"/> Abandoned, insufficient supply	<input type="checkbox"/> Dewatering	Contractor 1558									
<input type="checkbox"/> Test Hole	<input type="checkbox"/> Abandoned, poor quality	<input type="checkbox"/> Replacement well	Date Received SEP 10 2004 DD									
Well Contractor/Technician Information			Date of Inspection									
Name of Well Contractor	Well Contractor's Licence No.		Remarks									
Capital Water Supply Ltd.	1558		Well Record Number 1534948									
Business Address (street name, number, city etc.)	Well Technician's Licence No.		Date Submitted									
P.O. Box 490 Stittsville, Ontario K2S 1A6	TO097		2004 7 15									
Name of Well Technician (last name, first name)	Date Submitted		<p style="text-align: right;">0506E (09/03) Contractor's Copy <input type="checkbox"/> Ministry's Copy <input type="checkbox"/> Well Owner's Copy <input type="checkbox"/></p> <p style="text-align: right;">Cette formule est disponible en français</p>									
Miller, Stephen												
Signature of Technician/Contractor												

Instructions for Completing Form

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- Questions regarding completing this application can be directed to the Water Well Management Coordinator at 416-235-6203.
- **All metre measurements shall be reported to 1/10th of a metre.**
- Please print clearly in blue or black ink only.

Well Owner's Information and Location of Well Information

Ministry Use Only										
MUN	15003	CON	CON					03	LOT	21

Ottawa Carleton RR#/Street Number/Name Ottawa Carleton Lot 7, Ottawa Street	Goulbourn City/Town/Village Richmond	21	3
GPS Reading 8 3 18 43 43 11 50 03 249	Unit Make/Model Garmin	Mode of Operation: <input type="checkbox"/> Undifferentiated <input checked="" type="checkbox"/> Averaged <input type="checkbox"/> Differentiated, specify	

Log of Overburden and Bedrock Materials (see instructions)

General Colour	Most common material	Other Materials	General Description	Depth	
				From	Metres To
Brown	Clay	Stones	Packed	0	3.96
Gray	Hardpan	Boulders	Packed	3.96	7.92
Gray	Limestone	Brown Layers	Medium	7.92	39.62

Hole Diameter			Construction Record				Test of Well Yield					
Depth From	Metres To	Diameter Centimetres	Inside diam centimetres	Material	Wall thickness centimetres	Depth From	Metres To	Pumping test method	Draw Down Time min	Water Level Metres	Recovery Time min	Water Level Metres
0	8.53	22.75	15.86	<input checked="" type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized	0.48	+ 0.45	8.53	submersible				
8.53	39.62	15.23										
Water Record Water found at Metres: 37.79 Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Sulphur <input type="checkbox"/> Gas <input type="checkbox"/> Salty <input type="checkbox"/> Minerals <input type="checkbox"/> Other: not tested			Screen Outside diam: <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized Slot No.:				Pumping rate - (litres/min) 36.4 Duration of pumping 1 hrs + min Final water level end of pumping 9.81 metres Recommended pump type: <input type="checkbox"/> Shallow <input checked="" type="checkbox"/> Deep Recommended pump depth 22.85 metres Recommended pump rate (metres/min) 36.4 If flowing give rate (litres/min)					
After test of well yield, water was <input checked="" type="checkbox"/> Clear and sediment free <input type="checkbox"/> Other, specify			No Casing or Screen 15.23 <input checked="" type="checkbox"/> Open hole				10 7.64 10 2.39 15 8.38 15 2.22 20 8.85 20 2.18 25 9.11 25 2.10 30 9.30 30 2.15 40 9.57 40 2.14 50 9.70 50 2.14 60 9.81 60 2.13					
Chlorinated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			8.53 289.62									

Plugging and Sealing Record			<input checked="" type="checkbox"/> Annular space	<input type="checkbox"/> Abandonment
Depth set at - Metres From	To	Material and type (bentonite slurry, neat cement slurry) etc.	Volume Placed (cubic metres)	
8.53	0	Grouted - Cement & Bentonite	0.232m3	

Method of Construction			
<input type="checkbox"/> Cable Tool	<input checked="" type="checkbox"/> Rotary (air)	<input type="checkbox"/> Diamond	<input type="checkbox"/> Digging
<input type="checkbox"/> Rotary (conventional)	<input checked="" type="checkbox"/> Air percussion	<input type="checkbox"/> Jetting	<input type="checkbox"/> Other
<input type="checkbox"/> Rotary (reverse)	<input type="checkbox"/> Boring	<input type="checkbox"/> Driving	
Water Use			
<input checked="" type="checkbox"/> Domestic	<input type="checkbox"/> Industrial	<input type="checkbox"/> Public Supply	<input type="checkbox"/> Other
<input type="checkbox"/> Stock	<input type="checkbox"/> Commercial	<input type="checkbox"/> Not used	
<input type="checkbox"/> Irrigation	<input type="checkbox"/> Municipal	<input type="checkbox"/> Cooling & air conditioning	
Final Status of Well			
<input checked="" type="checkbox"/> Water Supply	<input type="checkbox"/> Recharge well	<input type="checkbox"/> Unfinished	<input type="checkbox"/> Abandoned, (Other)
<input type="checkbox"/> Observation well	<input type="checkbox"/> Abandoned, insufficient supply	<input type="checkbox"/> Dewatering	
<input type="checkbox"/> Test Hole	<input type="checkbox"/> Abandoned, poor quality	<input type="checkbox"/> Replacement well	

Well Contractor/Technician Information	
Name of Well Contractor Capital Water Supply Ltd.	Well Contractor's Licence No. 1558
Business Address (street name, number, city etc.) P.O. Box 490 Stittsville, Ontario K2S 1A6	
Name of Well Technician (last name, first name) S. Miller	Well Technician's Licence No. T0097
Signature of Technician/Contractor <i>S. Miller</i>	Date Submitted 2004 6 21

Location of Well	
In diagram below show distances of well from road, lot line, and building. Indicate north by arrow.	
Audit No. Z 13672	Date Well Completed 2004 6 17
Was the well owner's information package delivered? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Date Delivered 2008 6 18

Ministry Use Only	
Data Source	Contractor 1558
Date Received SEP 10 2004	Date of Inspection
Remarks	Well Record Number 1534958

A018985

A018985

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Well Owner's Information and Location of Well Information

Ministry Use Only
MUN 15003 CON CON 02 LOT 22

RR#/Street Number/Name: OTTAWA CARLETON #6299 OTTAWA STREET
City/Town/Village: GOULBURN RICHMOND
Site/Compartment/Block/Tract etc.: 22 3 PLAN 4R-16175 P/L6
GPS Reading: NAD 8.3 Zone 18 Easting 434310 Northing 5003271
Unit Make/Model: MASQUAN Mode of Operation: Averaged

Log of Overburden and Bedrock Materials (see instructions)

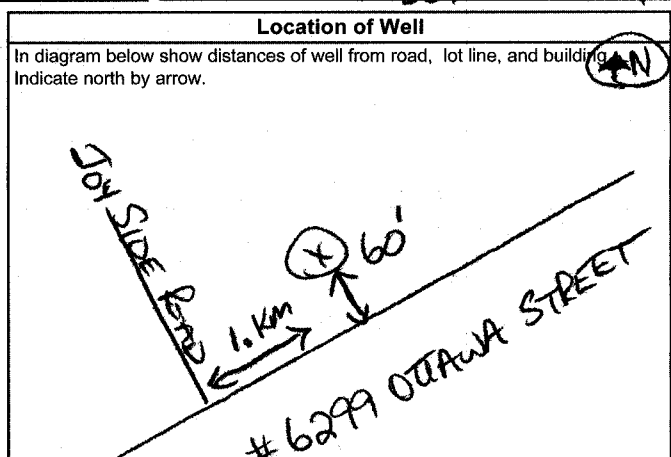
Table with columns: General Colour, Most common material, Other Materials, General Description, Depth From, Metres To. Includes entries for SANDY CLAY GRAVEL and GREY LIMESTONE.

Hole Diameter: Depth 0 to 24.99, Diameter 15.23
Water Record: Water found at 20.11m, Kind of Water: NOT TESTED
After test of well yield, water was: NOT TESTED
Chlorinated: Yes

Construction Record: Inside diam 15.88, Material Steel, Wall thickness .48, Depth 0 to 7.31
Casing: Steel, Fibreglass, Plastic, Concrete, Galvanized
Screen: No Casing or Screen, Open hole
No Casing or Screen: Open hole, Depth 6.70 to 24.99

Test of Well Yield: Pumping test method SUBPUMP, Draw Down, Recovery table with time and water level data.

Plugging and Sealing Record: Annular space, Abandonment
Depth set at 6.70 to 0, Material NEAT CEMENT SLURRY, Volume Placed .2724



Method of Construction: Air percussion
Water Use: Domestic
Final Status of Well: Water Supply

Audit No. Z 19094, Date Well Completed 2004 10 27
Was the well owner's information package delivered? Yes

Well Contractor/Technician Information: AIR ROCK DRILLING CO. LTD, Licence No. 1119
Name of Well Technician: PURCELL SHANNON, Licence No. T2122
Signature of Technician/Contractor: [Signature]

Ministry Use Only: Data Source, Contractor 1119, Date Received NOV 16 2004, Date of Inspection, Well Record Number 1535184

A 023019

A. 023019

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- **All metre measurements shall be reported to 1/10th of a metre.**
- Please print clearly in blue or black ink only.

Ministry Use Only									
MUN								CON	LOT

Address of well Location (County/District/Municipality) **OTTAWA-CARLETON** Township **SOULBOURN** Section **22** Corner **3**

RR#/Street Number/Name **#91 QUEEN CHARLOTTE** City/Town/Village **RICHMOND** Site/Compartment/Block/Tract etc. **MAGELAN**

GPS Reading NAD Zone Existing Northing Unit Make/Model Mode of Operation: Undifferentiated Averaged Differentiated, specify

8.3 18 424219 3003569 MAGELAN

Log of Overburden and Bedrock Materials (see instructions)

General Colour	Most common material	Other Materials	General Description	Depth Metres	
				From	To
	CLAY, SAND, BOULDERS			0	4.87
	GREY LIMESTONE			4.87	24.38

Hole Diameter			Construction Record				Test of Well Yield					
Depth From	Metres To	Diameter Centimetres	Inside diam centimetres	Material	Wall thickness centimetres	Depth From	Metres To	Pumping test method	Draw Down Time min	Water Level Metres	Recovery Time min	Water Level Metres
0	24.38	15.07	15.88	<input checked="" type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized	.48	0	6.70	Subpump				
Water Record			Screen				Test of Well Yield Data					
Water found at 20.19 m Kind of Water <input type="checkbox"/> Fresh <input type="checkbox"/> Sulphur <input type="checkbox"/> Gas <input type="checkbox"/> Salty <input type="checkbox"/> Minerals <input type="checkbox"/> Other NOT TESTED			Outside diam <input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized				Pump intake set at (metres) 21.33 Static Level 2.50 Recovery 13.41					
After test of well yield, water was <input checked="" type="checkbox"/> Clear and sediment free <input type="checkbox"/> Other, specify NOT TESTED			No Casing or Screen				Pumping rate (litres/min) 68.25 Duration of pumping 1 hrs + 0 min					
Chlorinated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			<input checked="" type="checkbox"/> Open hole				Final water level end of pumping 13.41 metres Recommended pump type <input checked="" type="checkbox"/> Shallow <input type="checkbox"/> Deep					

Plugging and Sealing Record Annular space Abandonment

Depth set at - Metres From **6.09** To **0** Material and type (bentonite slurry, neat cement slurry) etc. **NEAT CEMENT SLURRY** Volume Placed (cubic metres) **.207**

Method of Construction

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

Water Use

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

Final Status of Well

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

Location of Well

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

Audit No. **2 23277** Date Well Completed **2005 05 18**

Was the well owner's information package delivered? Yes No Date Delivered **2005 05 17**

Well Contractor/Technician Information

Name of Well Contractor **AIR ROCK DRILLING CO LTD** Well Contractor's Licence No. **7119**

Business Address (street name, number, city etc.) **RR#1 RICHMOND, ONT K0A2Z0**

Name of Well Technician (last name, first name) **TOGAN DAN** Well Technician's Licence No. **73058**

Signature of Technician/Contractor **[Signature]** Date Submitted **2005 05 18**

Ministry Use Only

Data Source Contractor **1119**

Date Received **JUN 06 2005** Date of Inspection **YYYY MM DD**

Remarks Well Record Number

Instructions for Completing Form

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- All Sections **must** be completed in full to avoid delays in processing. Further instructions and explanations are available on the back of this form.
- Questions regarding completing this application can be directed to the Water Well Help Desk (Toll Free) at 1-888-396-9355.
- **All metre measurements shall be reported to 1/10th of a metre.**
- Please print clearly in blue or black ink only.

Ministry Use Only

Address of Well Location (County/District/Municipality): **Ottawa - Carleton** Township: **Goulbourn** Lot: **22** Concession: **3**
 RR#/Street Number/Name: **#6300 Ottawa Street** City/Town/Village: **Richmond** Plan/Block/Tract/etc.: **4D-23 Part 1**
 GPS Reading: NAD **83** Zone **18** Easting **434353** Northing **5003237** Unit Make/Model: **Magellan** Mode of Operation: Undifferentiated Averaged Differentiated, specify

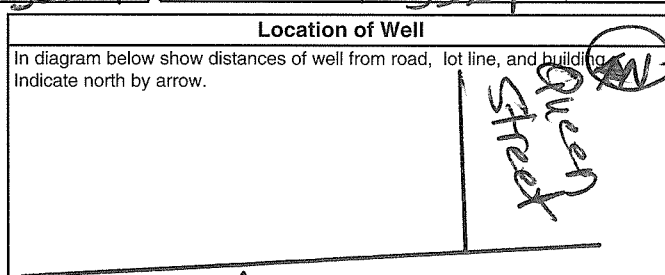
Log of Overburden and Bedrock Materials (see instructions)

General Colour	Most common material	Other Materials	General Description	Depth Metres	
				From	To
	Sand + Gravel			0	6.71
	Limestone			6.71	36.57

Hole Diameter			Construction Record				Test of Well Yield					
Depth From	Metres To	Diameter Centimetres	Inside diam centimetres	Material	Wall thickness centimetres	Depth From	Metres To	Pumping test method	Draw Down Time min	Water Level Metres	Recovery Time min	Water Level Metres
0	36.57	15.23	15.88	<input checked="" type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized	480			Sub Pump				
Water Record			Casing				Test of Well Yield					
Water found at 2.14 m: <input checked="" type="checkbox"/> Fresh <input type="checkbox"/> Sulphur <input type="checkbox"/> Gas <input type="checkbox"/> Salty <input type="checkbox"/> Minerals <input type="checkbox"/> Other: TESTED			Screen				Pump intake set at 33.3 metres					
After test of well yield, water was <input checked="" type="checkbox"/> Clear and sediment free <input checked="" type="checkbox"/> Cloudy - NOT TESTED			No Casing or Screen				Pumping rate 26.5 litres/min					
Chlorinated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			<input checked="" type="checkbox"/> Open hole				Duration of pumping 1 hr 0 min					
			8.84 36.57				Final water level end of pumping 33.34 metres					
							Recommended pump type: <input checked="" type="checkbox"/> Shallow <input type="checkbox"/> Deep					
							Recommended pump depth 33.53 metres					
							Recommended pump rate 26.5 (litres/min)					
							If flowing give rate - 24.40 (litres/min)					
							If pumping discontinued, give reason.					
							20 27.23 25 2.4					
							30 30.07 30 0.85					
							40 31.32 40					
							50 32.57 50					
							60 33.84 60					

Plugging and Sealing Record Annular space Abandonment

Depth set at - Metres From	To	Material and type (bentonite slurry, neat cement slurry) etc.	Volume Placed (cubic metres)
8.84	5.79	Neat Cement Slurry	0.1816
5.79	0	Bentonite Slurry	0.123



Method of Construction

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

Water Use

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

Final Status of Well

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

Well Contractor/Technician Information

Name of Well Contractor: **AIR ROCK DRILLING CO LTD** Well Contractor's Licence No.: **119**
 Business Address (street name, number, city etc.): **RR #1 RICHMOND ONT K0A2Z0**
 Name of Well Technician (last name, first name): **Desautniers Ken** Well Technician's Licence No.: **14**
 Signature of Technician/Contractor: **[Signature]** Date Submitted: **2007 01 22**

#6300 Ottawa Street

Audit No. **Z 55540** Date Well Completed: **2006 11 21**
 Was the well owner's information package delivered? Yes No Date Delivered: **2006 11 21**

Ministry Use Only

Data Source: Contractor **1119**
 Date Received: **FEB 12 2007** DD Date of Inspection: **2007 01 22** YYY MM DD
 Remarks: _____ Well Record Number: _____

Measurements recorded in: Metric Imperial

Page _____ of _____

N/A

Address of Well Location (Street Number/Name) **122 Burke Street** Township **Goulbourn** Lot _____ Concession _____
 County/District/Municipality **Ottawa Carleton** City/Town/Village **Richmond** Province **Ontario** Postal Code _____
 UTM Coordinates Zone Easting Northing Municipal Plan and Sublot Number Other
 NAD **83** **1843444** **5003776** **PLAND-18** **Unit 39**

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
			4" Drilled Well Abandonment	0 42'

Annular Space

Depth Set at (m/ft) From To	Type of Sealant Used (Material and Type)	Volume Placed (m ³ /ft ³)
42 0	hole plug	

Method of Construction

Cable Tool Diamond Public Commercial Not used
 Rotary (Conventional) Jetting Domestic Municipal Dewatering
 Rotary (Reverse) Driving Livestock Test Hole Monitoring
 Boring Digging Irrigation Cooling & Air Conditioning
 Air percussion Industrial Other, specify _____
 Other, specify _____

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)		Status of Well
			From	To	
					<input type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input type="checkbox"/> Observation and/or Monitoring Hole <input type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input checked="" type="checkbox"/> Abandoned, other, specify NOT USABLE <input type="checkbox"/> Other, specify _____

Construction Record - Screen

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)		Status of Well
			From	To	
					<input type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input checked="" type="checkbox"/> Abandoned, other, specify NOT USABLE <input type="checkbox"/> Other, specify _____

Water Details

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

Well Contractor and Well Technician Information

Business Name of Well Contractor **AIR ROCK DRILLING GOLD 1119** Well Contractor's Licence No. _____
 Business Address (Street Number/Name) **RR#1** Municipality **RICHMOND**
 Province **ONT** Postal Code **K0A2Z0** Business E-mail Address _____

Bus. Telephone No. (inc. area code) **6138382170** Name of Well Technician (Last Name, First Name) **Desautniers Ken**
 Well Technician's Licence No. **TA** Signature of Technician and/or Contractor **Ken Desautniers** Date Submitted **20080806**

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) _____

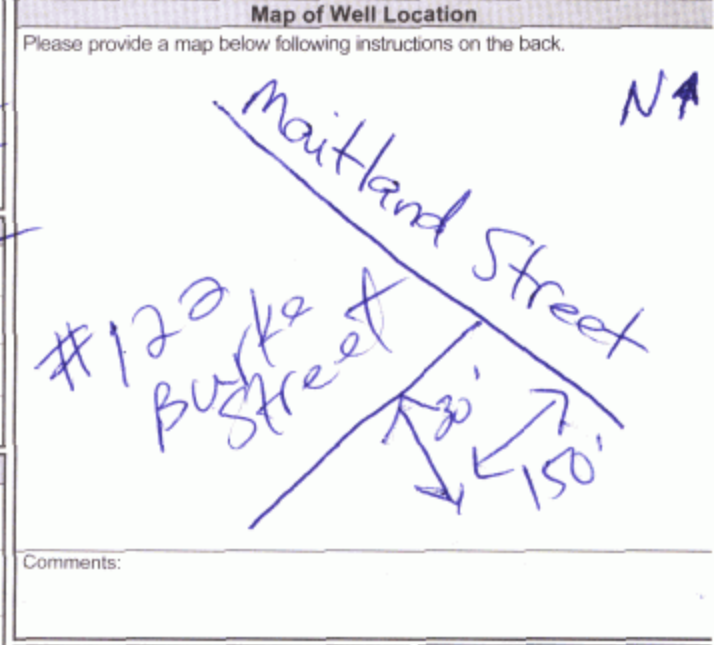
Recommended pump depth (m/ft) _____

Recommended pump rate (l/min / GPM) _____

Well production (l/min / GPM) _____

Disinfected? Yes No

Time (min)	Draw Down		Recovery	
	Water Level (m/ft)	Time (min)	Water Level (m/ft)	Time (min)
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		



Well owner's information package delivered Yes No

Date Package Delivered **20080722**

Date Work Completed _____

Ministry Use Only

Audit No. **Z 80764**

AUG 14 2008

Received _____

Well Owner's Information

First Name: _____ Last Name: _____ E-mail Address: _____ Well Constructed by Well Owner

Mailing Address (Street Number/Name, RR): **Davax Construction Ltd.** Municipality: **Gravenhurst** Province: **Ontario** Postal Code: **P1P1B8** Telephone No. (inc. area code): **705 687 0065**

Part A Construction and/or Major Alteration of a Well

Address of Well Location (Street Number/Name, RR): **6306 Ottawa Street** Township: **Goulbourn** Lot: **21** Concession: **2**

County/District/Municipality: **Ottawa Carleton** City/Town/Village: **Richmond** Province: **Ontario** Postal Code: _____

UTM Coordinates: Zone: **18** Easting: **434316** Northing: **5003216** GPS Unit Make: **Garmin** Model: _____ Mode of Operation: Undifferentiated Averaged Differentiated, specify _____

Overburden and Bedrock Materials (see instructions on the back of this form)

General Colour	Most Common Material	Other Materials	General Description	Depth (Metres) From	Depth (Metres) To
Brown	Sandy Soil		Loose	0	1.21
Brown	Hardpan		Packed	1.21	3.35
Grey	Hardpan		Packed	3.35	7.61
Grey	Limestone		Medium Packed	7.61	37.48

Annular Space/Abandonment Sealing Record

Depth Set at (Metres) From	Depth Set at (Metres) To	Type of Sealant Used (Material and Type)	Volume Placed (Cubic Metres)
8.68	0	Grouted Cement	.027m ³

Results of Well Yield Testing

Check box if after test of well yield, water was:

Clear and sand free Cannot develop to sand-free state

If pumping discontinued, give reason: _____

Pumping test method: **Submersible**

Pump intake set at (Metres): **30.47**

Pumping rate (Litres/min): **54.6**

Duration of pumping: **1** hrs + _____ min

Final water level end of pumping (Metres): **26.88**

Recommended pump type: Shallow Deep

Recommended pump depth: **30.47** Metres

Recommended pump rate (Litres/min): **45.5**

If flowing give rate (Litres/min): _____

Time (Min)	Draw Down		Recovery	
	Water Level (Metres)	Time (Min)	Water Level (Metres)	Time (Min)
Static Level	1.23	Static Level		
1	3.50	1	23.57	
2	5.48	2	21.29	
3	6.64	3	19.36	
4	8.01	4	17.40	
5	9.05	5	15.52	
10	13.54	10	8.70	
15	16.67	15	4.64	
20	19.09	20	2.53	
25	20.95	25	1.76	
30	22.46	30	1.20	
40	24.30	40		
50	26.01	50		
60	26.88	60		

Method of Construction

Cable Tool Diamond Public Commercial Not used

Rotary (Conventional) Jetting Municipal Dewatering

Rotary (Reverse) Driving Livestock Test Hole Monitoring

Rotary (Air) Digging Irrigation Cooling & Air Conditioning

Air percussion Boring Industrial Other, specify _____

Other, specify _____

Water Use

Domestic Commercial Not used

Municipal Dewatering

Test Hole Monitoring

Cooling & Air Conditioning

Industrial Other, specify _____

Status of Well

Water Supply Dewatering Well Observation and/or Monitoring Hole

Replacement Well Abandoned, Insufficient Supply Alteration (Construction)

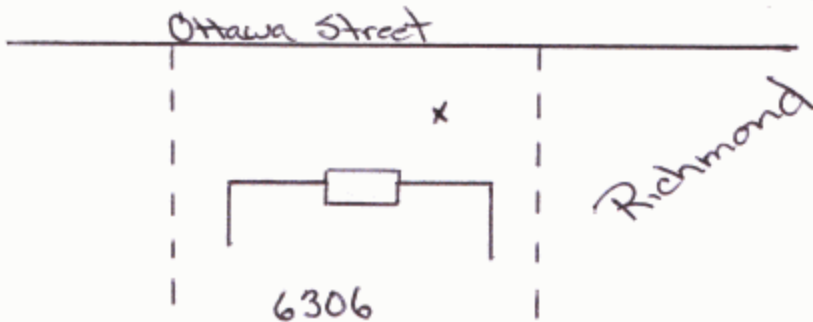
Test Hole Abandoned, Poor Water Quality Other, specify _____

Recharge Well Abandoned, other, specify _____

Location of Well

Please provide a map below showing:

- all property boundaries, and measurements sufficient to locate the well in relation to fixed points
- an arrow indicating the North direction
- detailed drawings can be provided as attachments no larger than legal size (8.5" by 14")
- digital pictures of inside of well can also be provided



Water Details

Water found at Depth	Kind of Water
34.44 Metres <input type="checkbox"/> Gas <input type="checkbox"/> Fresh <input type="checkbox"/> Salty <input type="checkbox"/> Sulphur <input type="checkbox"/> Minerals	Not Tested
Metres <input type="checkbox"/> Gas <input type="checkbox"/> Fresh <input type="checkbox"/> Salty <input type="checkbox"/> Sulphur <input type="checkbox"/> Minerals	
Metres <input type="checkbox"/> Gas <input type="checkbox"/> Fresh <input type="checkbox"/> Salty <input type="checkbox"/> Sulphur <input type="checkbox"/> Minerals	

Casing Used

Galvanized Galvanized

Steel Steel

Fibreglass Fibreglass

Plastic Plastic

Concrete Concrete

Screen Used

Galvanized Galvanized

Steel Steel

Fibreglass Fibreglass

Plastic Plastic

Concrete Concrete

Casing and Well Details

Diameter of the Hole (Centimetres): **15.23**

Depth of the Hole (Metres): **37.48**

Wall Thickness (Metres): **0.48**

Inside Diameter of the Casing (Metres): **15.86**

Depth of the Casing (Metres): **=.45 to 8.68**

No Casing and Screen Used

Open Hole

Disinfected? Yes No

Ministry Use Only

Audit No. **z 77377** Well Contractor No. _____

Date Received (yyyy/mm/dd) **Oct 14 2008** Date of Inspection (yyyy/mm/dd) _____

Remarks: _____

Date Well Completed (yyyy/mm/dd): **2008/06/16** Was the well owner's information package delivered? Yes No

Date the Well Record and Package Delivered to Well Owner (yyyy/mm/dd): **2008/06/18**

Well Contractor and Well Technician Information

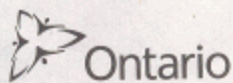
Business Name of Well Contractor: **Capital Water Supply Ltd.** Well Contractor's Licence No.: **1 5 5 8**

Business Address (Street No./Name, number, RR): **Box 490** Municipality: **Stittsville**

Province: **Ontario** Postal Code: **K2S1A6** Business E-mail Address: **office@capitalwater.ca**

Bus. Telephone No. (inc. area code): **6 13 836 1766** Name of Well Technician (Last Name, First Name): **Miller, Stephen**

Well Technician's Licence No.: **0 0 9 7** Signature of Technician: _____ Date Submitted (yyyy/mm/dd): **2008/06/20**



A 089810 (Print Below)

Measurements recorded in: Metric Imperial

Well Owner's Information

First Name, Last Name / Organization, E-mail Address, Mailing Address, Municipality, Province, Postal Code, Telephone No.

Well Location

Address of Well Location, Township, Lot, Concession, County/District/Municipality, City/Town/Village, Province, Postal Code, UTM Coordinates

Overburden and Bedrock Materials/Abandonment Sealing Record

Table with columns: General Colour, Most Common Material, Other Materials, General Description, Depth (m/ft) From, To

Annular Space table with columns: Depth Set at (m/ft) From, To, Type of Sealant Used, Volume Placed

Method of Construction and Well Use checkboxes

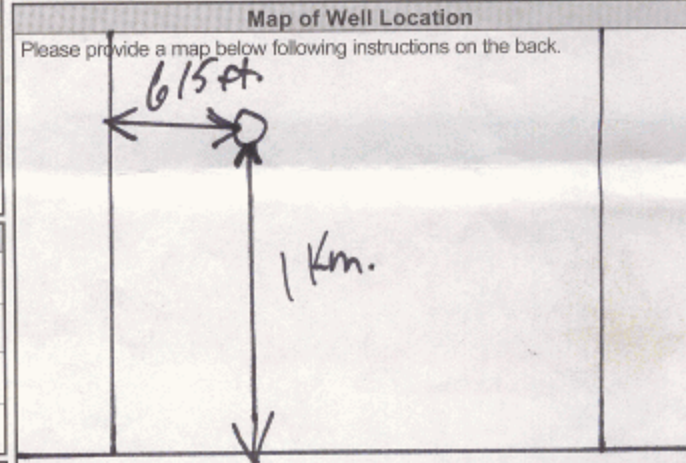
Construction Record - Casing table with columns: Inside Diameter, Open Hole OR Material, Wall Thickness, Depth, Status of Well

Construction Record - Screen table with columns: Outside Diameter, Material, Slot No., Depth

Water Details and Hole Diameter tables

Well Contractor and Well Technician Information

Results of Well Yield Testing table with columns: After test of well yield, water was, Draw Down, Recovery



Business Name, Well Contractor's Licence No., Business Address, Municipality, Province, Postal Code, Business E-mail Address, Bus. Telephone No., Name of Well Technician, Well Technician's Licence No., Signature of Technician and/or Contractor, Date Submitted

Well owner's information package delivered, Date Package Delivered, Date Work Completed, Ministry Use Only Audit No., APR 06 2010

Measurements recorded in: Metric Imperial

Well Owner's Information

First Name: _____ Last Name / Organization: **Mattamy (Jack River) Limited.** E-mail Address: _____ Well Constructed by Well Owner

Mailing Address (Street Number/Name): **123 Huntman Drive.** Municipality: **Ottawa.** Province: **On.** Postal Code: **K2G 1B9.** Telephone No. (inc. area code): **613 825 3479**

Well Location

Address of Well Location (Street Number/Name): _____ Township: **Goulbourn.** Lot: **22.** Concession: **3.**

County/District/Municipality: **Goulbourn.** City/Town/Village: **Richmond.** Province: **Ontario** Postal Code: _____

UTM Coordinates Zone Easting Northing: **NAD 83 7550 49645 11105** Municipal Plan and Sublot Number: _____ Other: _____

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		Packed.	0	11'
black.	Shale.		soft	11	150'
black	Shale			150	180
white.	sandstone			180	195
black	shale			195	255
black.	granite			255	395
				395	405

Annular Space			
Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m ³ /ft ³)	
0 150'	High early Cement.	103	

Method of Construction

Cable Tool Diamond Public Commercial Not used

Rotary (Conventional) Jetting Domestic Municipal Dewatering

Rotary (Reverse) Driving Livestock Test Hole Monitoring

Boring Digging Irrigation Cooling & Air Conditioning

Air percussion Industrial Other, specify _____

Other, specify _____

Construction Record - Casing				Status of Well	
Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)		<input type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input checked="" type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input type="checkbox"/> Observation and/or Monitoring Hole <input type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input type="checkbox"/> Abandoned, other, specify _____ <input type="checkbox"/> Other, specify _____
			From	To	
10 1/8"	Steel.	1.88"	0	150'	

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

Water Details		Hole Diameter	
Water found at Depth (m/ft)	Kind of Water: <input type="checkbox"/> Fresh <input checked="" type="checkbox"/> Untested	Depth (m/ft)	Diameter (cm/in)
73 (m/ft)	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	From: 150 To: 255	10 1/8"
190 (m/ft)	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	255 455	6 1/8"

Well Contractor and Well Technician Information

Business Name of Well Contractor: **J.R. Drilling Co. LTD.** Well Contractor's Licence No.: **3 7 4 9.**

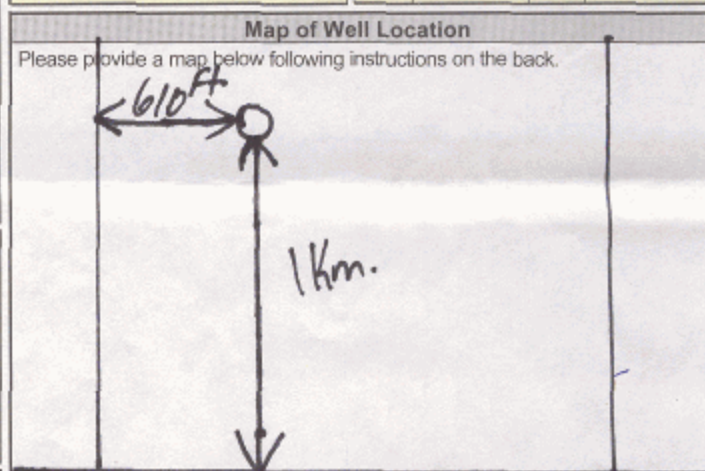
Business Address (Street Number/Name): **23 Mitchem Ro.** Municipality: **Clarendon**

Province: **Qc.** Postal Code: **J0X 2Y0** Business E-mail Address: **jrdrilling2@hotmail.com**

Bus. Telephone No. (inc. area code): **613 860 9986** Name of Well Technician (Last Name, First Name): **Moloughney Bill**

Well Technician's Licence No.: **T 0 5 0** Signature of Technician and/or Contractor: **[Signature]** Date Submitted: **20100316**

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



Comments: _____

Well owner's information package delivered: Yes No

Date Package Delivered: **2009/1/19**

Date Work Completed: _____

Ministry Use Only

Audit No.: **Z 103264**

APR 06 2010

Measurements recorded in: Metric Imperial

Well Owner's Information

First Name	Last Name / Organization	E-mail Address	<input type="checkbox"/> Well Constructed by Well Owner
	Mattamy (Sack River) Limited		
Mailing Address (Street Number/Name)	Municipality	Province	Postal Code
123 Huntmar Drive	Ottawa	On.	K2S1B9G
		Telephone No. (inc. area code)	
		6138253479	

Well Location

Address of Well Location (Street Number/Name)	Township	Lot	Concession
	Goulbourn	22	3
County/District/Municipality	City/Town/Village	Province	Postal Code
Goulbourn	Richmond	Ontario	
UTM Coordinates	Zone	Easting	Northing
NAD 83	18	7550472	4511081
		Municipal Plan and Sublot Number	Other

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		Packed.	0	14
grey.	Shale			14	190'
white	Sandstone			190'	205'
grey.	Shale.			205	230'

Annular Space		
Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m ³ /ft ³)
0 To 26	Normal Portland Cement	9.1

Method of Construction	Well Use
<input type="checkbox"/> Cable Tool <input checked="" type="checkbox"/> Rotary (Conventional) <input type="checkbox"/> Rotary (Reverse) <input type="checkbox"/> Boring <input type="checkbox"/> Air percussion <input type="checkbox"/> Other, specify _____	<input type="checkbox"/> Public <input type="checkbox"/> Domestic <input type="checkbox"/> Livestock <input type="checkbox"/> Irrigation <input type="checkbox"/> Industrial <input type="checkbox"/> Other, specify _____
<input type="checkbox"/> Diamond <input type="checkbox"/> Jetting <input type="checkbox"/> Driving <input type="checkbox"/> Digging	<input type="checkbox"/> Commercial <input type="checkbox"/> Municipal <input checked="" type="checkbox"/> Test Hole <input type="checkbox"/> Cooling & Air Conditioning
	<input type="checkbox"/> Not used <input type="checkbox"/> Dewatering <input type="checkbox"/> Monitoring

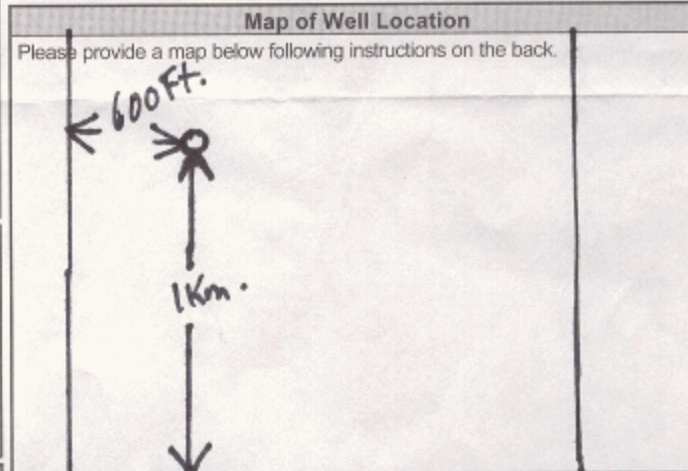
Construction Record - Casing				Status of Well	
Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)		<input type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input checked="" type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input type="checkbox"/> Observation and/or Monitoring Hole <input type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input type="checkbox"/> Abandoned, other, specify _____ <input type="checkbox"/> Other, specify _____
			From	To	
6 1/8"	Steel	1.58.	0	26'	

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

Water Details		Hole Diameter	
Water found at Depth	Kind of Water: <input type="checkbox"/> Fresh <input checked="" type="checkbox"/> Untested	Depth (m/ft)	Diameter (cm/in)
73' (m/ft)	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	From To	
		26' 230'	6 1/8"
Water found at Depth	Kind of Water: <input type="checkbox"/> Fresh <input checked="" type="checkbox"/> Untested		
180 (m/ft)	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____		
Water found at Depth	Kind of Water: <input type="checkbox"/> Fresh <input checked="" type="checkbox"/> Untested		
225 (m/ft)	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____		

Well Contractor and Well Technician Information			
Business Name of Well Contractor	Well Contractor's Licence No.		
J.R. Drilling Co. Ltd.	3749		
Business Address (Street Number/Name)	Municipality		
23 Mitchem Rd.	Clarendon		
Province	Postal Code	Business E-mail Address	
On	J0X2Y0	jrdrilling2@hotmail.com	
Bus. Telephone No. (inc. area code)	Name of Well Technician (Last Name, First Name)		
6138609986	Bill Moloughney		
Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted	
T050	[Signature]	20100311	

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



Comments:		Ministry Use Only Audit No. Z103266 APR 06 2010 Received
Well owner's information package delivered <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Date Package Delivered Y Y Y Y M M D D Date Work Completed 2009/2/20	

A110543

Address of Well Location (Street Number/Name) **126 Fortawe St**
 County/District/Municipality **OTT**
 Township **Richmond**
 City/Town/Village **Richmond**
 Province **Ontario**
 Postal Code **K0A 2Z0**
 UTM Coordinates Zone **18** Easting **434662** Northing **5003490**
 Municipal Plan and Sublot Number **4R-13613**
 Other **Pack-4**

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	Sand	Soft	0	1.21
Grey	Clay	Boulders	Loose	1.21	3.63
Grey	limestone		Hard	3.63	37.81

Annular Space		
Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
From	To	
6.06	0	Cement beads 120kg.

Results of Well Yield Testing			
After test of well yield, water was:			
<input checked="" type="checkbox"/> Clear and sand free			
<input type="checkbox"/> Other, specify _____			
If pumping discontinued, give reason:			
Pump intake set at (m/ft) 22.72			
Pumping rate (l/min / GPM) 54.00			
Duration of pumping 1 hrs + 00 min			
Final water level end of pumping (m/ft) 1.60			
If flowing give rate (l/min / GPM)			
Recommended pump depth (m/ft) 22.72			
Recommended pump rate (l/min / GPM) 45.00			
Well production (l/min / GPM) 90.00			
Disinfected? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			

Draw Down		Recovery	
Time (min)	Water Level (m/ft)	Time (min)	Water Level (m/ft)
Static Level	1.57		1.60
1	1.64	1	1.57
2	1.64	2	
3	1.63	3	
4	1.63	4	
5	1.62	5	
10	1.61	10	
15	1.60	15	
20	1.58	20	
25	1.58	25	
30	1.58	30	
40	1.59	40	
50	1.60	50	
60	1.60	60	

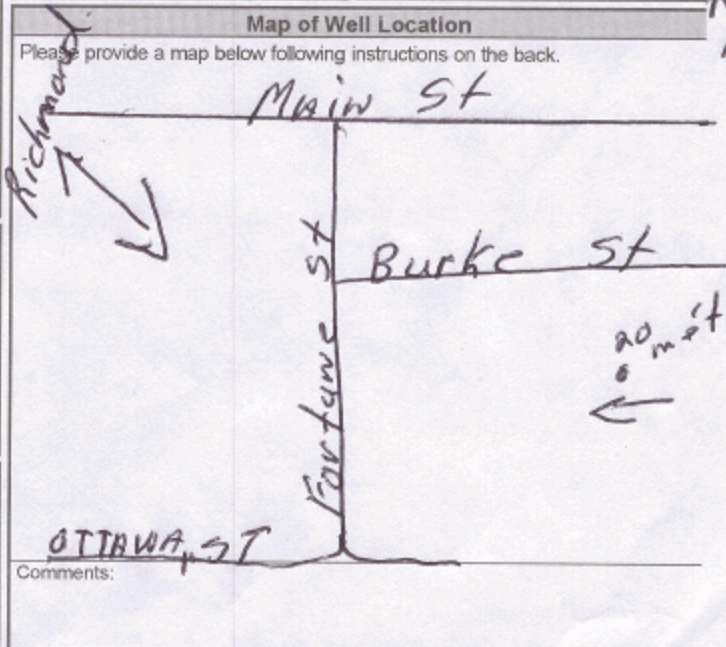
Method of Construction		Well Use	
<input type="checkbox"/> Cable Tool	<input type="checkbox"/> Diamond	<input type="checkbox"/> Public	<input type="checkbox"/> Commercial
<input type="checkbox"/> Rotary (Conventional)	<input type="checkbox"/> Jetting	<input checked="" type="checkbox"/> Domestic	<input type="checkbox"/> Not used
<input checked="" type="checkbox"/> Rotary (Reverse)	<input type="checkbox"/> Driving	<input type="checkbox"/> Municipal	<input type="checkbox"/> Dewatering
<input type="checkbox"/> Boring	<input type="checkbox"/> Digging	<input type="checkbox"/> Livestock	<input type="checkbox"/> Test Hole
<input type="checkbox"/> Air percussion		<input type="checkbox"/> Industrial	<input type="checkbox"/> Monitoring
<input type="checkbox"/> Other, specify _____		<input type="checkbox"/> Other, specify _____	<input type="checkbox"/> Cooling & Air Conditioning

Construction Record - Casing			Status of Well		
Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Well Thickness (cm/in)	Depth (m/ft)		
			From	To	
15.86	Steel	0.48	0.90	6.06	<input checked="" type="checkbox"/> Water Supply
					<input type="checkbox"/> Replacement Well
					<input type="checkbox"/> Test Hole
					<input type="checkbox"/> Recharge Well
					<input type="checkbox"/> Dewatering Well
					<input type="checkbox"/> Observation and/or Monitoring Hole
					<input type="checkbox"/> Alteration (Construction)
					<input type="checkbox"/> Abandoned, Insufficient Supply
					<input type="checkbox"/> Abandoned, Poor Water Quality
					<input type="checkbox"/> Abandoned, other, specify _____
					<input type="checkbox"/> Other, specify _____

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

Water Details		Hole Diameter	
Water found at Depth (m/ft)	Kind of Water: <input checked="" type="checkbox"/> Fresh <input type="checkbox"/> Untested	Depth (m/ft)	Diameter (cm/in)
		From	To
12.12	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	0	6.06
25.75	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	6.06	31.81
	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____		15.55

Well Contractor and Well Technician Information	
Business Name of Well Contractor DXR-WATER-Well-Drillings	Well Contractor's Licence No. 6006
Business Address (Street Number/Name) 1263 - Route 900 west	Municipality NATION
Province ON	Postal Code K0A3C0
Bus. Telephone No. (inc. area code) 613 987 5598	Name of Well Technician (Last Name, First Name) Desnoyers Louis
Well Technician's Licence No. 1625	Signature of Technician and/or Contractor Louis Desnoyers
	Date Submitted 2010 11 22



Well owner's information package delivered	Date Package Delivered	Ministry Use Only
<input checked="" type="checkbox"/> Yes	2010 11 18	Audit No. z125144
<input type="checkbox"/> No	2010 11 18	Received DEC 03 2010

Measurements recorded in: Metric Imperial

Well Owner's Information

First Name	Last Name / Organization Doyle Homes	E-mail Address	<input type="checkbox"/> Well Constructed by Well Owner
Mailing Address (Street Number/Name) 2171 McGee Side Road	Municipality Carp	Province Ontario	Postal Code K0A 1L0
		Telephone No. (inc. area code) 613 831 7924	

Well Location

Address of Well Location (Street Number/Name) 114 Fortune Street	Township Goulbourn	Lot 22	Concession 3
County/District/Municipality Ottawa Carleton	City/Town/Village Richmond	Province Ontario	Postal Code
UTM Coordinates NAD 83 18 434499	Eastings 5003533	Northings	Municipal Plan and Sublot Number
		Other	

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	Soil	Stones		0	3.65
Grey	Till		Packed	3.65	6.09
Grey	Limestone	Sandstone Layers		6.09	52.72

Annular Space			
Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m ³ /ft ³)	
From: 7.31 To: 0	Grouted Cement	.21m ³	

Method of Construction	Well Use
<input type="checkbox"/> Cable Tool <input checked="" type="checkbox"/> Rotary (Conventional) <input type="checkbox"/> Rotary (Reverse) <input type="checkbox"/> Boring <input checked="" type="checkbox"/> Air percussion <input type="checkbox"/> Other, specify _____	<input type="checkbox"/> Public <input checked="" type="checkbox"/> Domestic <input type="checkbox"/> Livestock <input type="checkbox"/> Irrigation <input type="checkbox"/> Industrial <input type="checkbox"/> Other, specify _____
<input type="checkbox"/> Diamond <input type="checkbox"/> Jetting <input type="checkbox"/> Driving <input type="checkbox"/> Digging	<input type="checkbox"/> Commercial <input type="checkbox"/> Municipal <input type="checkbox"/> Test Hole <input type="checkbox"/> Cooling & Air Conditioning <input type="checkbox"/> Not used <input type="checkbox"/> Dewatering <input type="checkbox"/> Monitoring

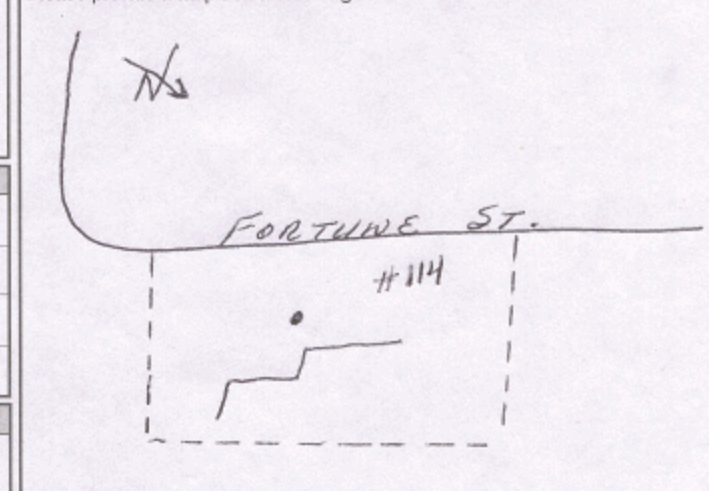
Construction Record - Casing				Status of Well	
Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)		<input checked="" type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input type="checkbox"/> Observation and/or Monitoring Hole <input type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input type="checkbox"/> Abandoned, other, specify _____ <input type="checkbox"/> Other, specify _____
			From	To	
15.86	Steel	.48	+4.5	7.31	

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

Water Details		Hole Diameter		
Water found at Depth 18.28 (m/ft)	Kind of Water: <input type="checkbox"/> Fresh <input checked="" type="checkbox"/> Untested <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	Depth (m/ft)	Diameter (cm/in)	
Water found at Depth 51.50 (m/ft)	Kind of Water: <input type="checkbox"/> Fresh <input checked="" type="checkbox"/> Untested <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	From: 0 To: 7.31	15.86	
Water found at Depth (m/ft)	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	From: 7.31 To: 52.72	15.23	

Well Contractor and Well Technician Information			
Business Name of Well Contractor Capital Water Supply Ltd.	Well Contractor's Licence No. 1 5 5 8	Business Address (Street Number/Name) Box 490	Municipality Stittsville
Province Ontario	Postal Code K2S 1A6	Business E-mail Address office@capitalwater.ca	
Bus. Telephone No. (inc. area code) 613 836 1766	Name of Well Technician (Last Name, First Name) Miller, Stephen	Well Technician's Licence No. 0 0 9 7	Signature of Technician and/or Contractor
		Date Submitted 20100903	

Results of Well Yield Testing				
After test of well yield, water was: <input checked="" type="checkbox"/> Clear and sand free <input type="checkbox"/> Other, specify _____	Draw Down		Recovery	
	Time (min)	Water Level (m/ft)	Time (min)	Water Level (m/ft)
If pumping discontinued, give reason: Pump intake set at (m/ft) 30.47 Pumping rate (l/min / GPM) 45.5 Duration of pumping 1 hrs + min Final water level end of pumping (m/ft) 3.78 If flowing give rate (l/min / GPM) Recommended pump depth (m/ft) 21.33 Recommended pump rate (l/min / GPM) 45.5 Well production (l/min / GPM) Disinfected? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Static Level	2.63		
	1	3.40	1	2.80
	2	3.54	2	2.68
	3	3.59	3	2.63
	4	3.61	4	
	5	3.62	5	
10	3.67	10		
15	3.69	15		
20	3.71	20		
25	3.75	25		
30	3.76	30		
40	3.77	40		
50	3.78	50		
60	3.78	60		

Map of Well Location


Comments:

Well owner's information package delivered <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Date Package Delivered 20100903	Ministry Use Only Audit No. z115607 DEC 09 2010 Received
Date Work Completed 20100902		

Measurements recorded in: Metric Imperial

Page _____ of _____

Well Owner's Information

First Name	Last Name / Organization Doyle Homes	E-mail Address	<input type="checkbox"/> Well Constructed by Well Owner
Mailing Address (Street Number/Name) 2171 McGee Side Road		Municipality Carp	Province Ontario
		Postal Code K0A 1L0	Telephone No. (inc. area code) 613 913 1879

Well Location

Address of Well Location (Street Number/Name) 122 Fortune		Township Goulbourn	Lot 22	Concession 3
County/District/Municipality Ottawa Carleton		City/Town/Village Richmond	Province Ontario	Postal Code
UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number
NAD	8	3	1	8
		434534	5003497	

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	Soil	Boulders		0	6.09
Coloured Gravel & Broken Rock			Packed	6.09	7.92
Grey	Limestone		Medium	7.92	42.66

Annular Space

Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m ³ /ft ³)
From To		
8.53 0	Grouted Cement & Bentonite	.42m ³

Results of Well Yield Testing

After test of well yield, water was:	Draw Down		Recovery	
<input checked="" type="checkbox"/> Clear and sand free <input type="checkbox"/> Other, specify _____	Time (min)	Water Level (m/ft)	Time (min)	Water Level (m/ft)
If pumping discontinued, give reason:	Static Level	3.77		
	1	4.05	1	3.92
Pump intake set at (m/ft) 15.23	2	4.09	2	3.78
Pumping rate (l/min / GPM) 45.5	3	4.10	3	3.77
Duration of pumping 1 hrs + _____ min	4	4.10	4	
Final water level end of pumping (m/ft) 4.14	5	4.11	5	
If flowing give rate (l/min / GPM)	10	4.11	10	
Recommended pump depth (m/ft) 15.23	15	4.12	15	
Recommended pump rate (l/min / GPM) 45.5	20	4.12	20	
Well production (l/min / GPM)	25	4.13	25	
Disinfected? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	30	4.13	30	
	40	4.14	40	
	50	4.14	50	
	60	4.14	60	

Method of Construction
Well Use

<input type="checkbox"/> Cable Tool	<input type="checkbox"/> Diamond	<input type="checkbox"/> Public	<input type="checkbox"/> Commercial	<input type="checkbox"/> Not used
<input checked="" type="checkbox"/> Rotary (Conventional)	<input type="checkbox"/> Jetting	<input checked="" type="checkbox"/> Domestic	<input type="checkbox"/> Municipal	<input type="checkbox"/> Dewatering
<input type="checkbox"/> Rotary (Reverse)	<input type="checkbox"/> Driving	<input type="checkbox"/> Livestock	<input type="checkbox"/> Test Hole	<input type="checkbox"/> Monitoring
<input type="checkbox"/> Boring	<input type="checkbox"/> Digging	<input type="checkbox"/> Irrigation	<input type="checkbox"/> Cooling & Air Conditioning	
<input checked="" type="checkbox"/> Air percussion		<input type="checkbox"/> Industrial		
<input type="checkbox"/> Other, specify _____		<input type="checkbox"/> Other, specify _____		

Construction Record - Casing
Status of Well

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)		<input checked="" type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input type="checkbox"/> Observation and/or Monitoring Hole <input type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input type="checkbox"/> Abandoned, other, specify _____ <input type="checkbox"/> Other, specify _____
			From	To	
15.86	Steel	.48	+4.5	8.53	

Construction Record - Screen

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)		<input type="checkbox"/> Other, specify _____
			From	To	

Water Details
Hole Diameter

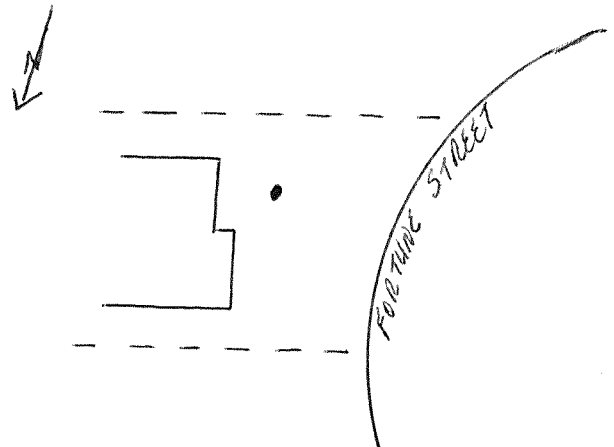
Water found at Depth (m/ft)	Kind of Water: <input type="checkbox"/> Fresh <input checked="" type="checkbox"/> Untested	Depth (m/ft)		Diameter (cm/in)
		From	To	
42.06	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	0	8.53	15.86
		8.53	42.66	15.23

Well Contractor and Well Technician Information

Business Name of Well Contractor Capital Water Supply Ltd.	Well Contractor's Licence No. 1 5 5 8
Business Address (Street Number/Name) Box 490	Municipality Stittsville
Province Ontario	Postal Code K2S 1A6
Business E-mail Address office@capitalwater.ca	Name of Well Technician (Last Name, First Name) Miller, Stephen
Bus. Telephone No. (inc. area code) 613 836 1766	Signature of Technician and/or Contractor
Well Technician's Licence No. 0 0 9 7	Date Submitted 20120831

Map of Well Location

Please provide a map below following instructions on the back.



Comments:

Well owner's information package delivered	Date Package Delivered 20120829
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Date Work Completed 20120828

Ministry Use Only
Audit No. Z139830
Received MAR 28 2013

Measurements recorded in: Metric Imperial

Page of

N/A

Address of Well Location (Street Number/Name) #98 Fortune Street
 Township GOULBOURN Lot X Concession X
 County/District/Municipality Ottawa-Carleton City/Town/Village Richmond Province Ontario Postal Code
 UTM Coordinates Zone Easting Northing NAD 83 18 434402 5003684 Municipal Plan and Sublot Number Plan D-18 Other Part U-37

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
	6" Drilled well	Abandonment		0' 20'
* New 6" well drilled June 30/15 TAGA187032 Audit Z191516*				
* PLAN 4R3417 - Parts 2-4				

Annular Space		
Depth Set at (m/ft) From To	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
20' 5'	3/8 Hole Plug	6 Bags
5' 0'	Backfill	

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

Method of Construction		Well Use		
<input type="checkbox"/> Cable Tool	<input type="checkbox"/> Diamond	<input type="checkbox"/> Public	<input type="checkbox"/> Commercial	<input type="checkbox"/> Not used
<input type="checkbox"/> Rotary (Conventional)	<input type="checkbox"/> Jetting	<input type="checkbox"/> Domestic	<input type="checkbox"/> Municipal	<input type="checkbox"/> Dewatering
<input type="checkbox"/> Rotary (Reverse)	<input type="checkbox"/> Driving	<input type="checkbox"/> Livestock	<input type="checkbox"/> Test Hole	<input type="checkbox"/> Monitoring
<input type="checkbox"/> Boring	<input type="checkbox"/> Digging	<input type="checkbox"/> Irrigation	<input type="checkbox"/> Cooling & Air Conditioning	
<input type="checkbox"/> Air percussion		<input type="checkbox"/> Industrial		
<input type="checkbox"/> Other, specify		<input type="checkbox"/> Other, specify		

Construction Record - Casing				Status of Well	
Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)		<input type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input type="checkbox"/> Observation and/or Monitoring Hole <input type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input type="checkbox"/> Abandoned, other, specify <input type="checkbox"/> Other, specify
			From	To	

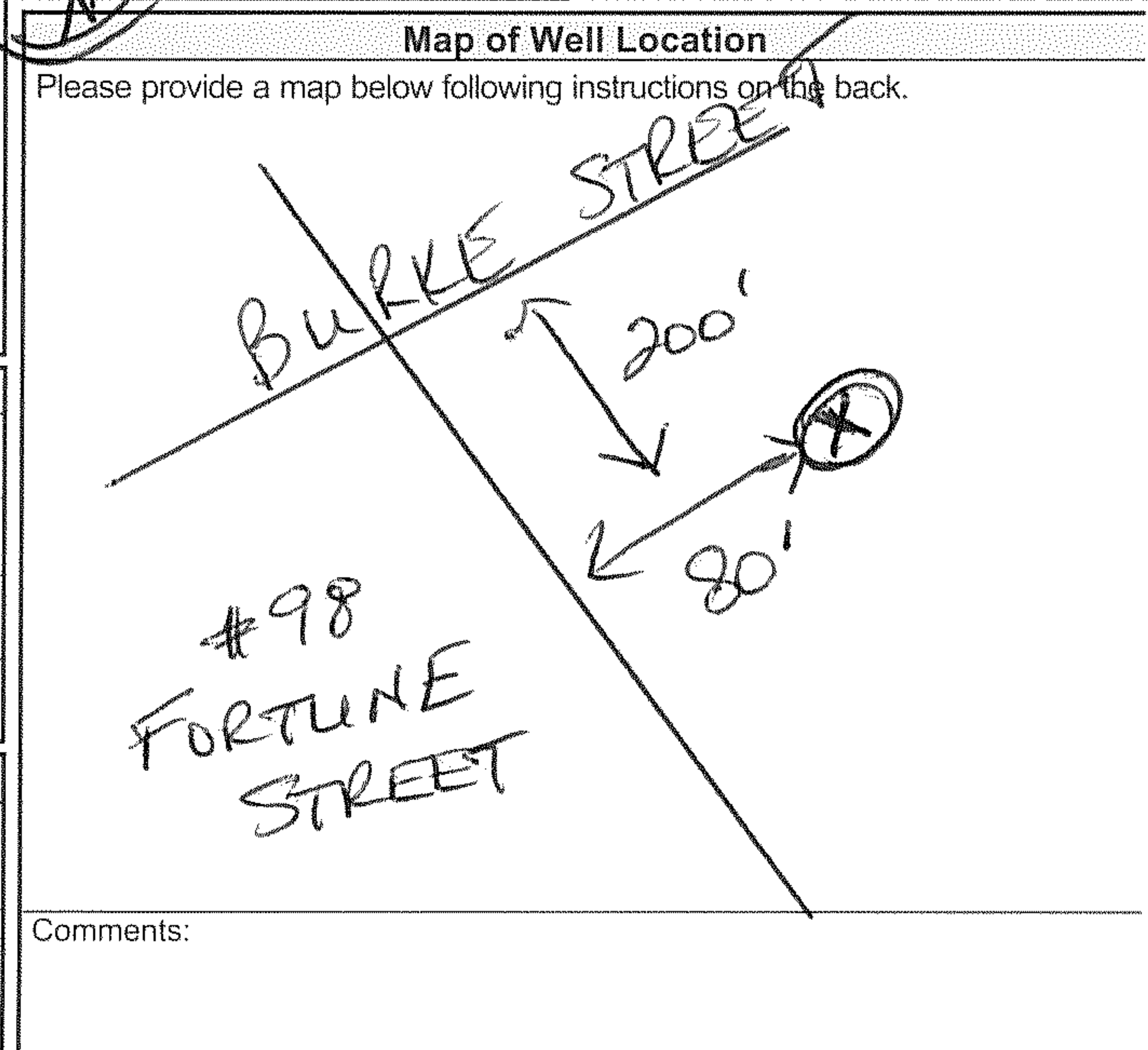
Construction Record - Screen				Status of Well
Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)	
			From	To
			* NOT TO REG 903	

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

Well Contractor and Well Technician Information

Business Name of Well Contractor: AIR ROCK DRILLING CO LTD Well Contractor's Licence No.: 11191
 Business Address (Street Number/Name): RR#1 RICHMOND Municipality: RICHMOND
 Province: ONT Postal Code: K0A2Z0 Business E-mail Address:

Bus. Telephone No. (inc. area code): 6138882170 Name of Well Technician (Last Name, First Name): Desautels Ken
 Well Technician's Licence No.: TA Signature of Technician and/or Contractor: [Signature] Date Submitted: 20150731



Well owner's information package delivered: Yes No

Date Package Delivered: 20150708

Date Work Completed: 20150708

Ministry Use Only

Audit No: Z191504

SEP 22 2015

Measurements recorded in: Metric Imperial

A187032

Page _____ of _____

Address of Well Location (Street Number/Name) **98 Fortune Street** Township **Goulbourn** Lot **X** Concession **X**

County/District/Municipality **Ottawa-Carleton** City/Town/Village **Richmond** Province **Ontario** Postal Code _____

UTM Coordinates Zone Easting Northing Municipal Plan and Sublot Number Other

NAD 83 **18** **434387** **5003692** **Plan D-18** **Part U-37**

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
	Clay	Sand		0'	14'
Grey	Limestone			14'	156'
White	Sandstone			156'	173'
White	Sandstone			173'	179'

** PLAN 4R3417 - Parts 2-4*

Annular Space

Depth Set at (m/ft) From	Depth Set at (m/ft) To	Type of Sealant Used (Material and Type)	Volume Placed (m ³ /ft ³)
20'	10'	Neat cement	12.5
10'	0'	Bentonite slurry	29.4

Method of Construction

Cable Tool Diamond Public Commercial Not used

Rotary (Conventional) Jetting Domestic Municipal Dewatering

Rotary (Reverse) Driving Livestock Test Hole Monitoring

Boring Digging Irrigation Cooling & Air Conditioning

Air percussion Industrial Other, specify _____

Other, specify _____

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)		Status of Well
			From	To	
6 1/4"	Steel	.188"	+2'	20'	<input checked="" type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input type="checkbox"/> Observation and/or Monitoring Hole <input type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input type="checkbox"/> Abandoned, other, specify _____ <input type="checkbox"/> Other, specify _____
5 15/16"	Open Hole		20'	179'	

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: <input type="checkbox"/> Fresh <input checked="" type="checkbox"/> Untested <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____
73'	

Hole Diameter

Depth (m/ft) From	Depth (m/ft) To	Diameter (cm/in)
0'	20'	9 3/4"
20'	179'	5 15/16"

Well Contractor and Well Technician Information

Business Name of Well Contractor: **Air Rock Drilling Co. Ltd.** Well Contractor's Licence No.: **1119**

Business Address (Street Number, Name): **6054 Press Street, Richmond** Municipality: **Richmond**

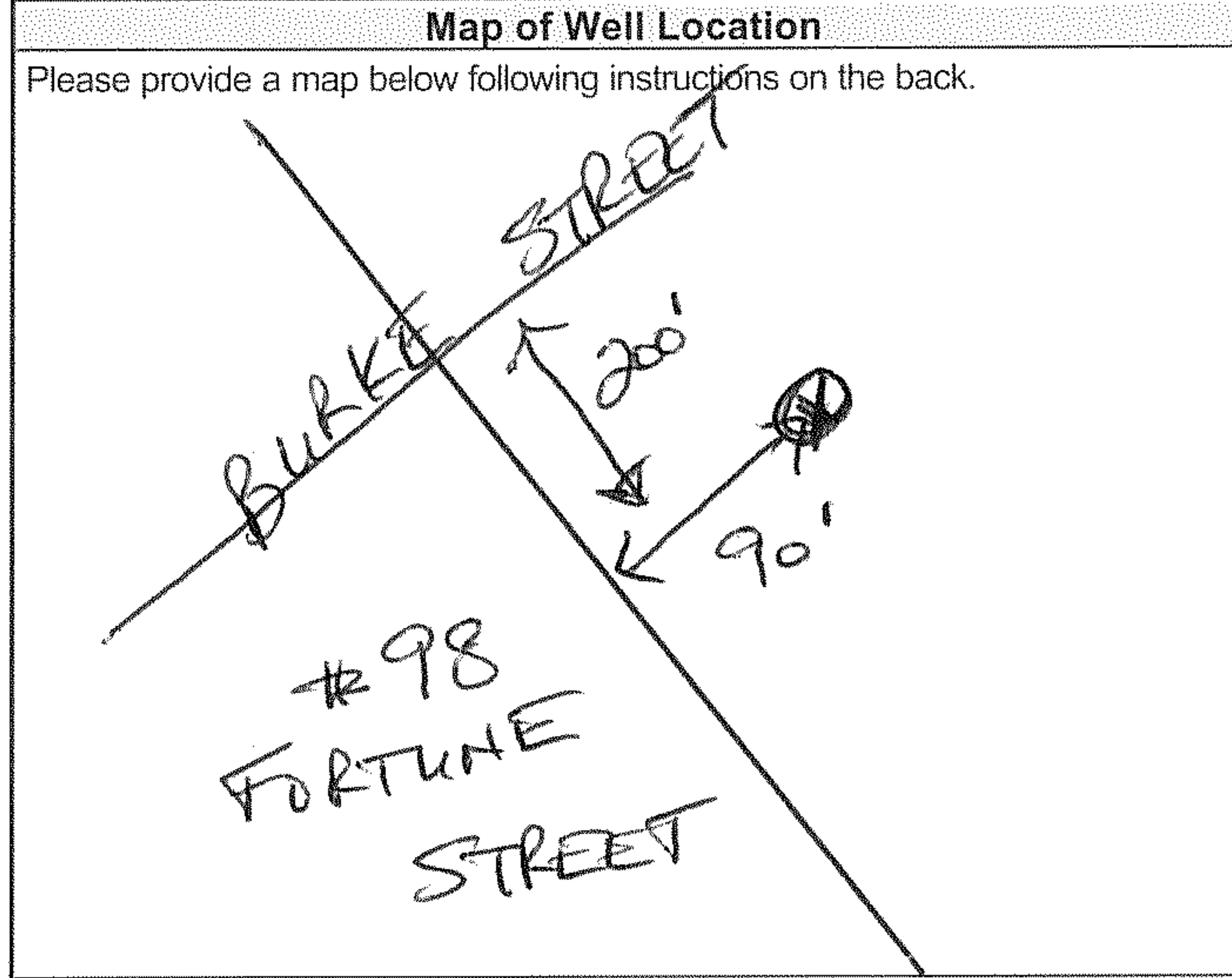
Province: **ON** Postal Code: **K0A 2Z0** Business E-mail Address: **air-rock@sympatico.ca**

Bus. Telephone No. (inc. area code): **6138882170** Name of Well Technician (Last Name, First Name): **Hanna, Jeremy**

Well Technician's Licence No.: **T3632** Signature of Technician and/or Contractor: *[Signature]* Date Submitted: **2015 07 31**

Results of Well Yield Testing

After test of well yield, water was: <input type="checkbox"/> Clear and sand free <input type="checkbox"/> Other, specify Not tested	Draw Down		Recovery	
	Time (min)	Water Level (m/ft)	Time (min)	Water Level (m/ft)
If pumping discontinued, give reason: X Pump intake set at (m/ft): 160 Pumping rate (l/min / GPM): 15 us Duration of pumping: 1 hrs + 0 min Final water level end of pumping (m/ft): 73.8" If flowing give rate (l/min / GPM): X Recommended pump depth (m/ft): 120' Recommended pump rate (l/min / GPM): 12 Well production (l/min / GPM): 12 + Disinfected? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Static Level	5.5'		73.8'
	1	16.3	1	64.7
	2	22.2	2	53.9
	3	30.5	3	41.3
	4	35.9	4	24.8
	5	39.6	5	12.4
	10	54.6	10	5.5
	15	66.1	15	5.5
	20	70.7	20	5.5
	25	72.4	25	5.5
	30	73.8	30	5.5
	40	73.8	40	5.5
50	73.8	50	5.5	
60	73.8'	60	5.5'	



Comments: **1/2 HP - 10 GPM SET @ 120 FT**

Well owner's information package delivered: Yes No

Date Package Delivered: **2015 07 02**

Date Work Completed: **2015 06 30**

Ministry Use Only

Audit No: **Z191516**

Received: **SEP 22 2015**



Address of Well Location (Street Number/Name) 113 Fortune St Township _____ Lot _____ Concession _____
 County/District/Municipality Ottawa carlton City/Town/Village Richmond Province Ontario Postal Code K0A 2Z0
 UTM Coordinates Zone 18U Easting 434504 Northing 5003500 Municipal Plan and Sublot Number _____ Other _____

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
	* Raised Well casing above grade as per code requirements while doing pump work.				
	Well depth at time 56 feet				
			pump test not performed at time of work		

Annular Space

Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m ³ /ft ³)
	N/A	

Results of Well Yield Testing

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

Method of Construction

Cable Tool Diamond Public Commercial Not used
 Rotary (Conventional) Jetting Domestic Municipal Dewatering
 Rotary (Reverse) Driving Livestock Test Hole Monitoring
 Boring Digging Irrigation Cooling & Air Conditioning
 Air percussion Industrial Other, specify _____
 Other, specify _____

Construction Record - Casing

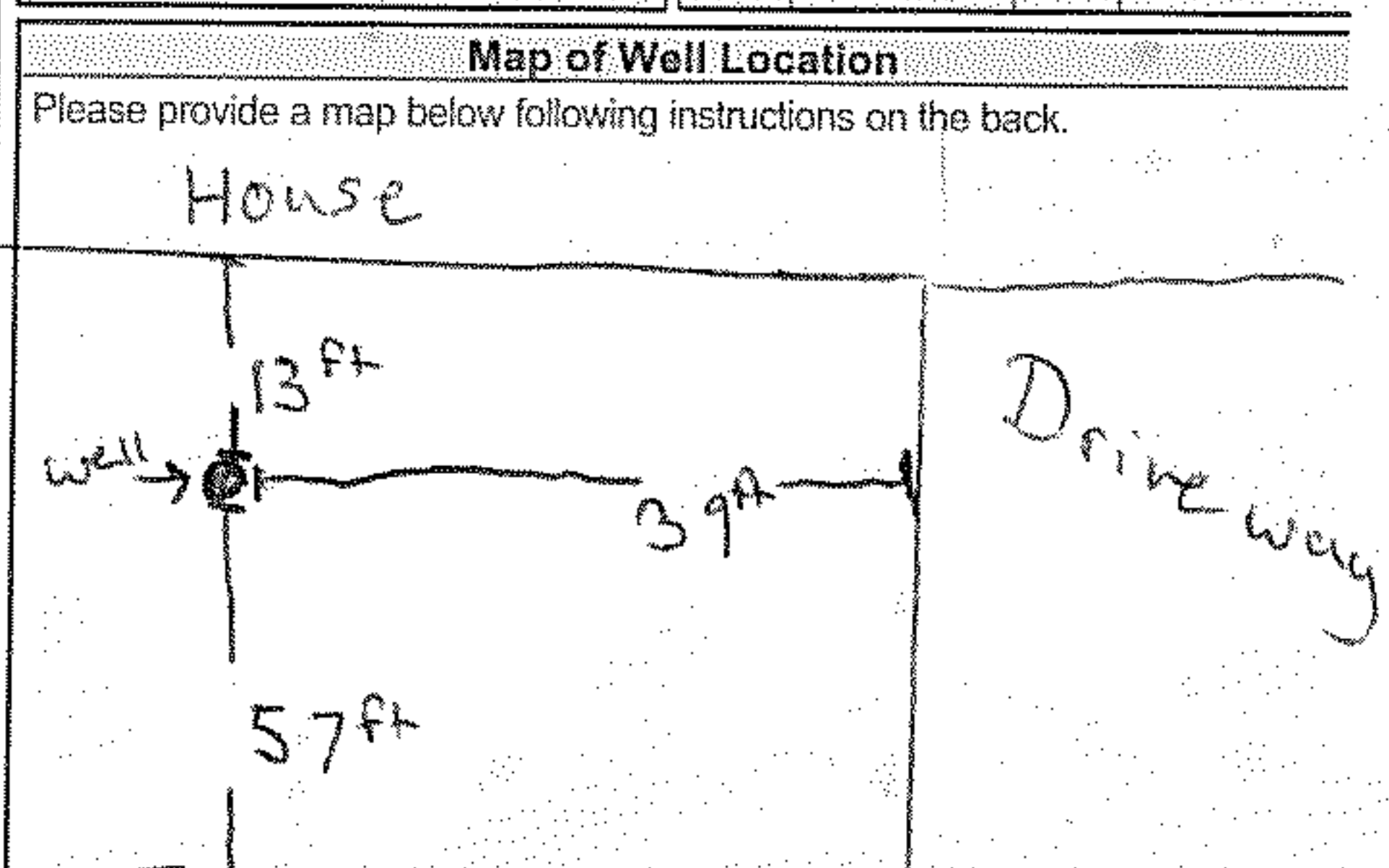
Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)		Status of Well
			From	To	
	N/A				<input checked="" type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input type="checkbox"/> Observation and/or Monitoring Hole <input type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input type="checkbox"/> Abandoned, other, specify _____ <input type="checkbox"/> Other, specify _____

Construction Record - Screen

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: <input type="checkbox"/> Fresh <input checked="" type="checkbox"/> Untested	Hole Diameter
	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	Depth (m/ft) From To Diameter (cm/in)
		N/A



Well Contractor and Well Technician Information

Business Name of Well Contractor C+N Electric Ltd. Well Contractor's Licence No. 6364
 Business Address (Street Number/Name) 5640 Manotick Main St Municipality Ottawa
 Province Ont Postal Code K4M1B3 Business E-mail Address _____
 Bus. Telephone No. (inc. area code) 6136923284 Name of Well Technician (Last Name, First Name) Sadler Ron
 Well Technician's Licence No. T637 Signature of Technician and/or Contractor Ron Sadler Date Submitted _____

Comments: _____

Well owner's information package delivered Yes No

Date Package Delivered 20160428 Date Work Completed 20160428

Ministry Use Only

Audit No. Z171379
 MAY 18 2016

Map: Well records

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

Full dataset is available in the [Open Data catalogue](#).

[Go Back to Map](#)

Well ID

Well ID Number: 7285368
 Well Audit Number: Z237286
 Well Tag Number: A207744

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

Well Location

Address of Well Location	126 BURKE STREET
Township	GOULBOURN TOWNSHIP
Lot	
Concession	
County/District/Municipality	OTTAWA-CARLETON
City/Town/Village	RICHMOND
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 18 Easting: 434431.00 Northing: 5003742.00
Municipal Plan and Sublot Number	
Other	

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
GREY	CLAY LMSN	SNDY	GRVL	0 ft 12 ft	12 ft 100 ft

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
20 ft	0 ft	NEAT CEMENT SLURRY	12.48

Method of Construction & Well Use

Method of Construction	Well Use
Air Percussion	Domestic

Status of Well

Water Supply

Construction Record - Casing

Inside Diameter	Open Hole or material	Depth From	Depth To
6.25 inch	STEEL	-2 ft	20 ft
5.9375 inch	OPEN HOLE	20 ft	100 ft

Construction Record - Screen

Outside Diameter	Material	Depth From	Depth To
------------------	----------	------------	----------

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 1119

Results of Well Yield Testing

After test of well yield, water was

If pumping discontinued, give reason

Pump intake set at	80 ft
Pumping Rate	20 GPM
Duration of Pumping	1 h:0 m
Final water level	19.333 ft

If flowing give rate

Recommended pump depth	80 ft
Recommended pump rate	20 GPM

Well Production

Disinfected?	Y
--------------	---

Draw Down & Recovery

Draw Down Time(min)	Draw Down Water level	Recovery Time(min)	Recovery Water level
SWL	8.583 ft		
1	14.8 ft	1	10 ft
2	16.3 ft	2	8.7 ft
3	17 ft	3	8.7 ft
4	17.3 ft	4	8.7 ft
5	17.6 ft	5	8.7 ft
10	18 ft	10	8.7 ft
15	18.3 ft	15	8.7 ft
20	18.5 ft	20	8.7 ft
25	18.7 ft	25	8.7 ft
30	18.8 ft	30	8.7 ft
40	19 ft	40	8.7 ft
45		45	
50	19.2 ft	50	8.7 ft
60	19.4 ft	60	8.7 ft

Water Details

Water Found at Depth	Kind
38 ft	Untested
78 ft	Untested
94 ft	Untested

Hole Diameter

Depth From	Depth To	Diameter
0 ft	20 ft	9.75 inch
20 ft	100 ft	5.9375 inch

Audit Number: Z237286

Date Well Completed: January 26, 2017

Date Well Record Received by MOE: April 18, 2017

Updated: January 24, 2020

Map: Well records

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

Full dataset is available in the [Open Data catalogue](#).

[Go Back to Map](#)

Well ID

Well ID Number: 7322061
 Well Audit Number: Z292431
 Well Tag Number: A236912

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

Well Location

Address of Well Location	116 QUEEN CHARLOTTE STREET
Township	GOULBOURN TOWNSHIP
Lot	
Concession	CON 03
County/District/Municipality	OTTAWA-CARLETON
City/Town/Village	RICHMOND
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 18 Easting: 434425.00 Northing: 5003382.00
Municipal Plan and Sublot Number	
Other	

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
BRWN	CLAY	STNS	PCKD	0 ft	15.5 ft
GREY	LMSN		HARD	15.5 ft	101 ft

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
10.5 ft	0 ft	BENTONITE PRESSURE GROUTED	
20.5 ft	10.5 ft	CEMENT PRESSURE GROUTED	

Method of Construction & Well Use

Method of Construction	Well Use
Rotary (Convent.)	
AIR PERCUSSION	Domestic

Status of Well

Water Supply

Construction Record - Casing

Inside Diameter	Open Hole or material	Depth From	Depth To
6.25 inch	STEEL	-1.5 ft	20.5 ft
6.0625 inch	OPEN HOLE	20.5 ft	101 ft

Construction Record - Screen

Outside Diameter	Material	Depth From	Depth To
------------------	----------	------------	----------

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 4877

Results of Well Yield Testing

After test of well yield, water was	CLEAR
If pumping discontinued, give reason	
Pump intake set at	80 ft
Pumping Rate	20 GPM
Duration of Pumping	1 h:0 m
Final water level	15.15 ft
If flowing give rate	
Recommended pump depth	80 ft
Recommended pump rate	10 GPM
Well Production	
Disinfected?	Y

Draw Down & Recovery

Draw Down Time(min)	Draw Down Water level	Recovery Time(min)	Recovery Water level
SWL	11.45 ft		
1	13.9 ft	1	12.3 ft
2	14.2 ft	2	12.25 ft
3	14.3 ft	3	12.25 ft
4	14.45 ft	4	12.15 ft
5	14.45 ft	5	12.1 ft
10	14.6 ft	10	12 ft
15	14.7 ft	15	11.95 ft
20	14.8 ft	20	11.9 ft
25	14.9 ft	25	11.85 ft
30	15 ft	30	11.8 ft
40	15.05 ft	40	11.75 ft
45		45	
50	15.1 ft	50	11.7 ft
60	15.15 ft	60	11.65 ft

Water Details

Water Found at Depth	Kind
78 ft	Untested
92 ft	

Hole Diameter

Depth From	Depth To	Diameter
0 ft	20.5 ft	9.875 inch
20.5 ft	101 ft	6.0625 inch

Audit Number: Z292431

Date Well Completed: October 02, 2018

Date Well Record Received by MOE: November 13, 2018

Updated: January 24, 2020

Map: Well records

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

Full dataset is available in the [Open Data catalogue](#).

[Go Back to Map](#)

Well ID

Well ID Number: 1509173

Well Audit Number:

Well Tag Number:

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

Well Location

Address of Well Location

Township RICHMOND VILLAGE

Lot

Concession

County/District/Municipality OTTAWA-CARLETON

City/Town/Village

Province ON

Postal Code n/a

UTM Coordinates
NAD83 — Zone 18
Easting: 434200.70
Northing: 5003092.00

Municipal Plan and Sublot Number

Other

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
GREY	BLDR LMSN	HPAN		0 ft 14 ft	14 ft 104 ft

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
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Method of Construction & Well Use

Method of Construction **Well Use**

Cable Tool

Domestic

Status of Well

Water Supply

Construction Record - Casing

Inside Diameter	Open Hole or material	Depth From	Depth To
4 inch	STEEL		17 ft
4 inch	OPEN HOLE		104 ft

Construction Record - Screen

Outside Diameter Material Depth From Depth To

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 4832

Results of Well Yield Testing

After test of well yield, water was	CLEAR
<hr/>	
If pumping discontinued, give reason	
<hr/>	
Pump intake set at	
<hr/>	
Pumping Rate	4 GPM
<hr/>	
Duration of Pumping	1 h:0 m
<hr/>	
Final water level	38 ft
<hr/>	
If flowing give rate	
<hr/>	
Recommended pump depth	
<hr/>	
Recommended pump rate	
<hr/>	
Well Production	PUMP
<hr/>	
Disinfected?	
<hr/>	

Draw Down & Recovery

Draw Down Time(min)	Draw Down Water level	Recovery Time(min)	Recovery Water level
SWL	22 ft		
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
100 ft	Fresh

Hole Diameter

Depth From	Depth To	Diameter
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Audit Number:

Date Well Completed: June 11, 1958

Date Well Record Received by MOE: August 05, 1958

Updated: January 24, 2020

Estimated Groundwater Inflow

Caivan (Richmond North) Communities - Laffin Lands - Servicing Excavation

Dupuit-Forchheimer Equation

$$Q = \pi K ((h_0^2 - h_p^2) / \ln(R/r))$$

K (m/sec) = 1.00E-05
 h0 (m) = 25
 hp (m) = 24.5
 r (m) = 9.55

Equivalent Radius of Excavation = A+B=Pi*r
 Excavation Width (A) = 5 m
 Excavation Length (B) = 25 m
 Perimeter Length = 60 m
 Equivalent Radius (r) = 9.55 m

R	Distance to edge of excavation
9.55	0.00
10.55	1.00
11.55	2.00
12.55	3.00
13.55	4.00
14.55	5.00
15.55	6.00
16.55	7.00
17.55	8.00
18.55	9.00
19.55	10.00
20.55	11.00
21.55	12.00
22.55	13.00
23.55	14.00
24.55	15.00
25.55	16.00
26.55	17.00
27.55	18.00
28.55	19.00
29.55	20.00
30.55	21.00
31.55	22.00
32.55	23.00
33.55	24.00
34.55	25.00
35.55	26.00
36.55	27.00
37.55	28.00
38.55	29.00

Q (m^3/s)	Q (m^3/day)	Q (L/day)
#DIV/0!	#DIV/0!	#DIV/0!
0.0078	675	674,552
0.0041	353	353,286
0.0028	246	245,902
0.0022	192	192,015
0.0018	160	159,544
0.0016	138	137,791
0.0014	122	122,173
0.0013	110	110,394
0.0012	101	101,180
0.0011	94	93,765
0.0010	88	87,661
0.0010	83	82,543
0.0009	78	78,185
0.0009	74	74,427
0.0008	71	71,149
0.0008	68	68,262
0.0008	66	65,699
0.0007	63	63,407
0.0007	61	61,342
0.0007	59	59,473
0.0007	58	57,770
0.0007	56	56,213
0.0006	55	54,783
0.0006	53	53,464
0.0006	52	52,243
0.0006	51	51,109
0.0006	50	50,052
0.0006	49	49,065
0.0006	48	48,141

Estimated Groundwater Inflow

Caivan (Richmond North) Communities - Laffin Lands - Servicing Excavation

Dupuit-Forchheimer Equation

$$Q = \pi K ((h_0^2 - h_p^2) / \ln(R/r))$$

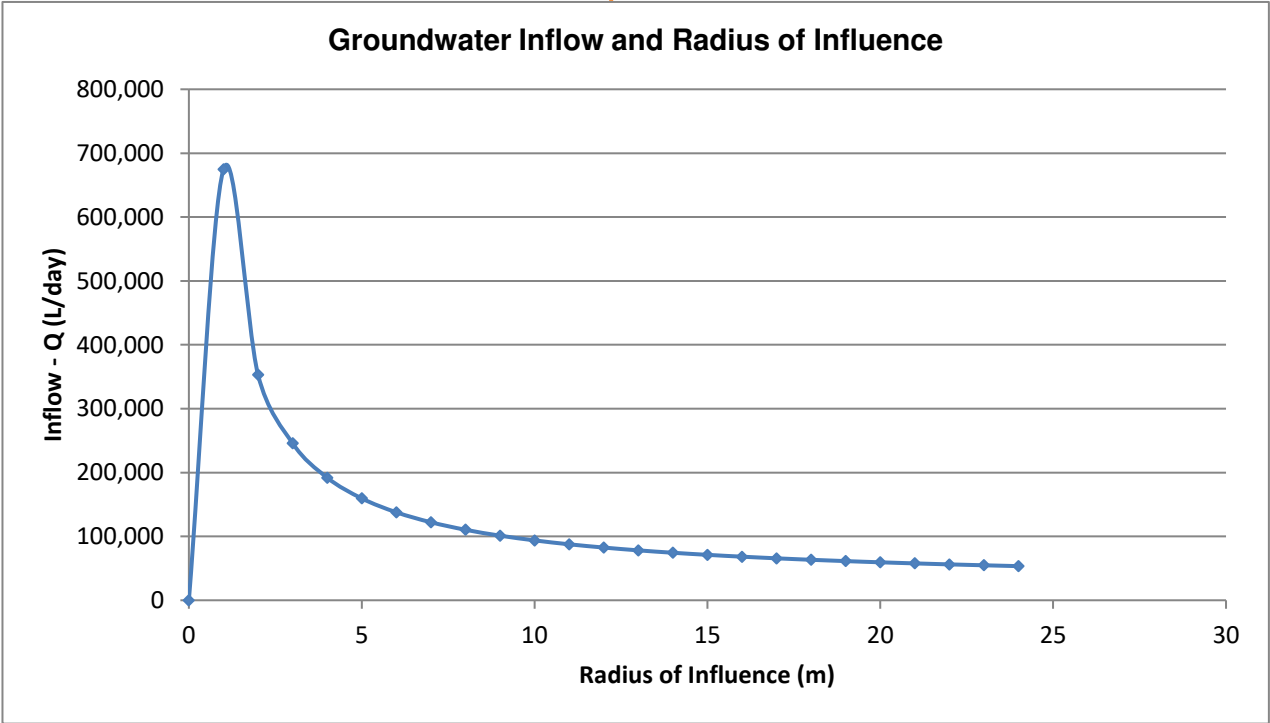
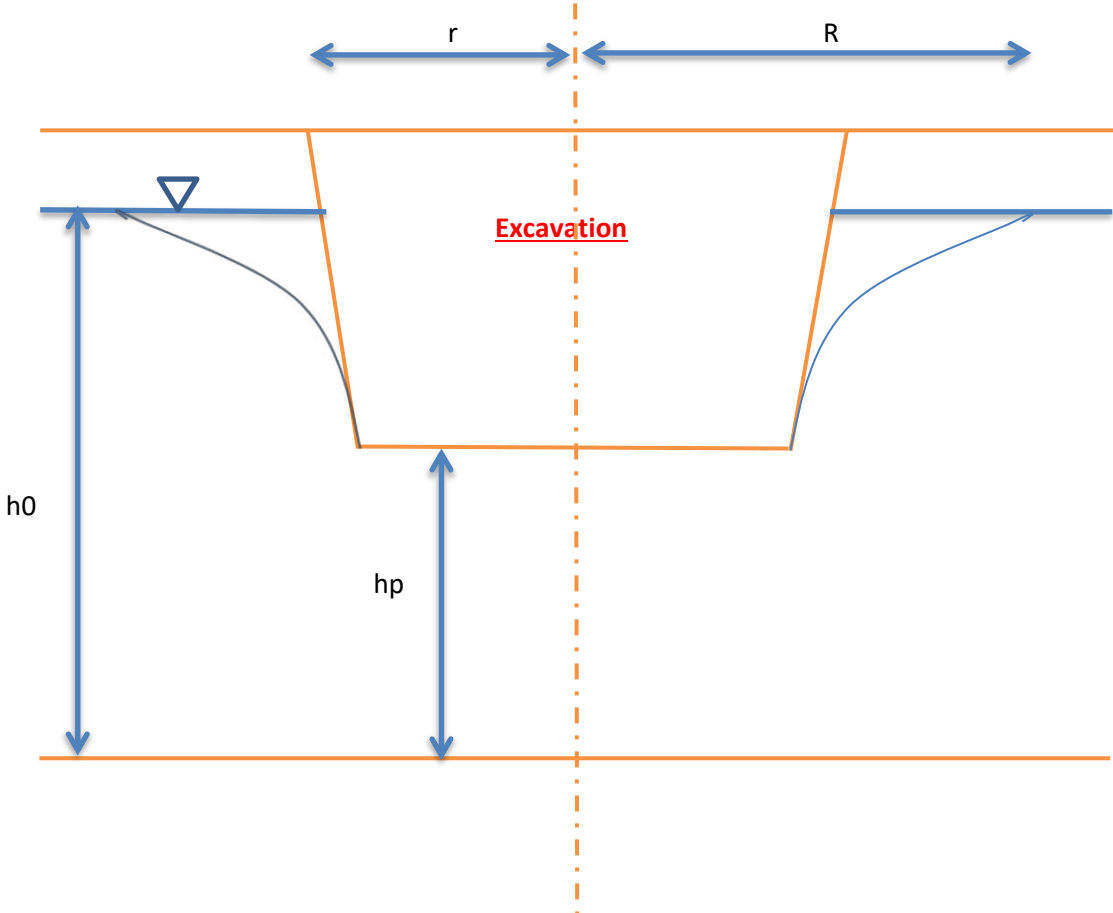
K (m/sec) = 1.00E-05
 h0 (m) = 25
 hp (m) = 23.5
 r (m) = 9.55

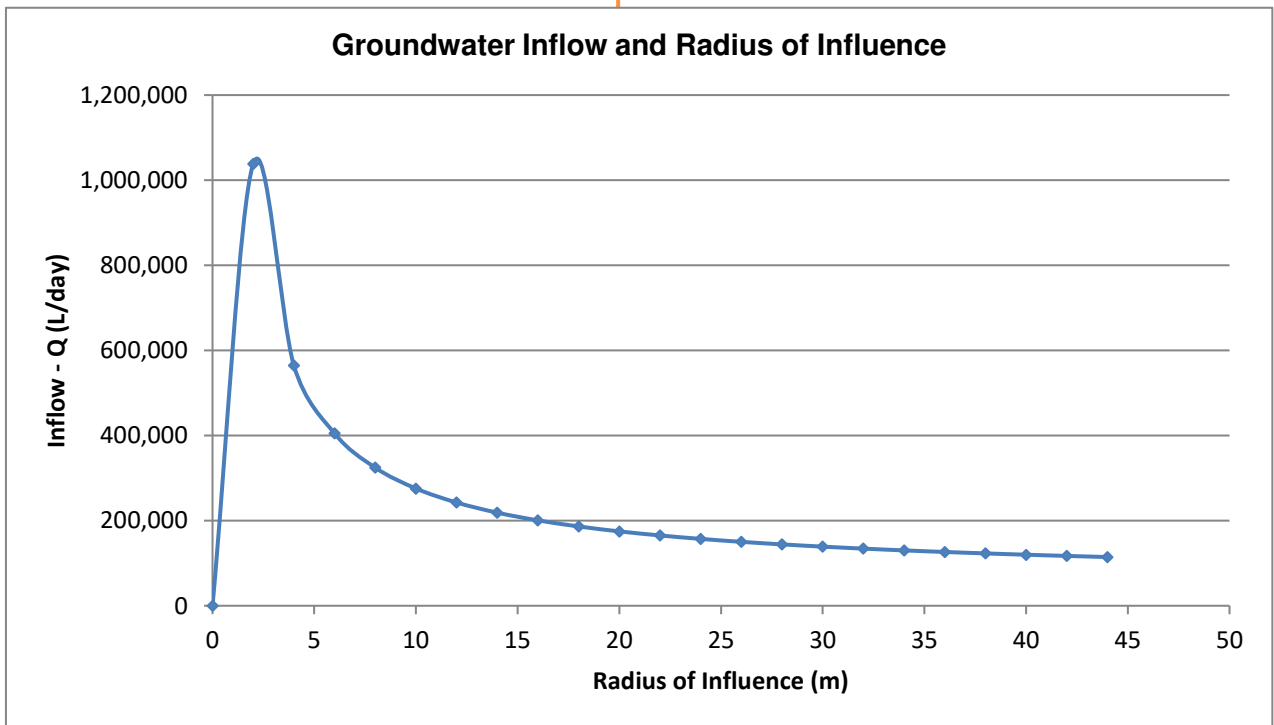
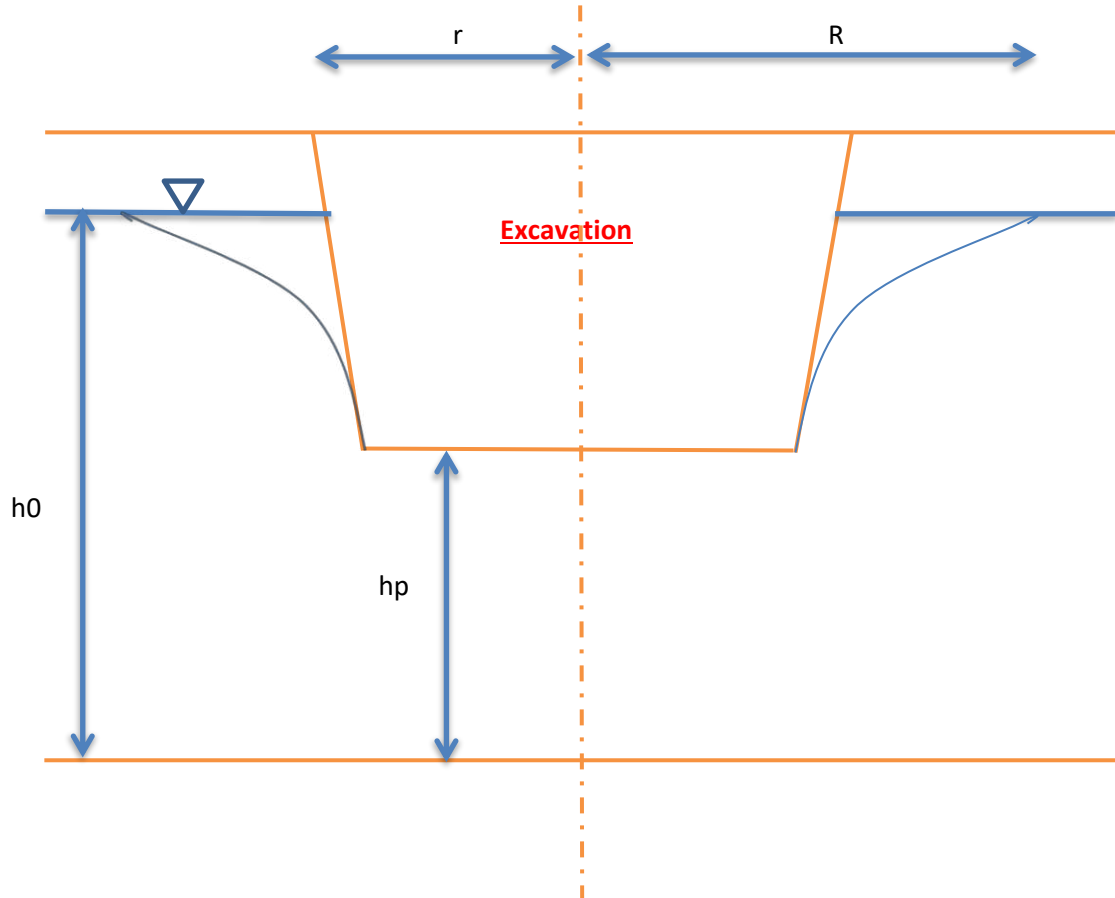
Equivalent Radius of Excavation = A+B=Pi*r

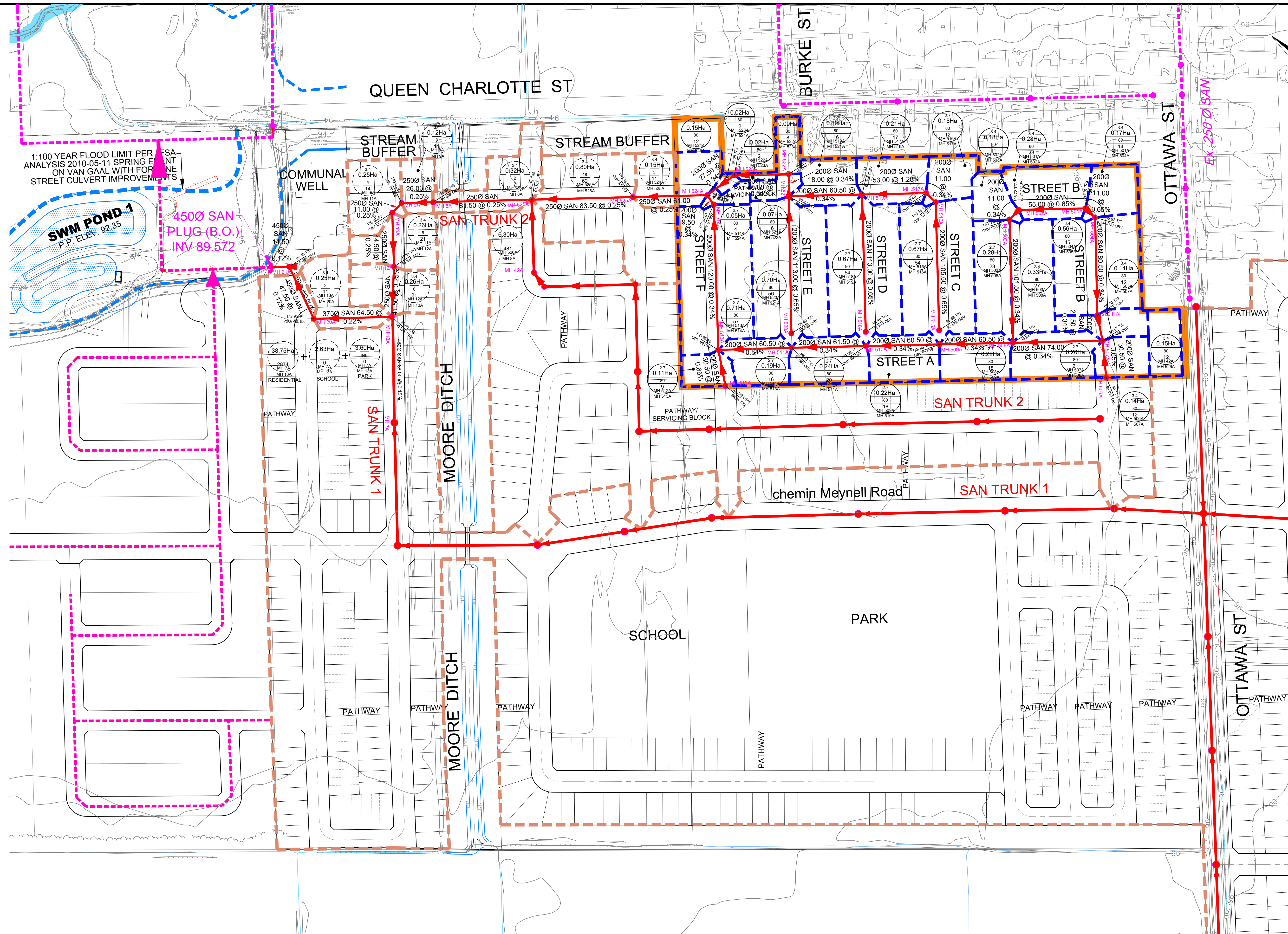
Excavation Width (X) = 5 m
 Excavation Length (Y) = 25 m
 Perimeter Length = 60 m
 Equivalent Radius (r) = 9.55 m

R	Distance to edge of excavation
9.55	0.00
11.55	2.00
13.55	4.00
15.55	6.00
17.55	8.00
19.55	10.00
21.55	12.00
23.55	14.00
25.55	16.00
27.55	18.00
29.55	20.00
31.55	22.00
33.55	24.00
35.55	26.00
37.55	28.00
39.55	30.00
41.55	32.00
43.55	34.00
45.55	36.00
47.55	38.00
49.55	40.00
51.55	42.00
53.55	44.00

Q (m^3/s)	Q (m^3/day)	Q (L/day)
#DIV/0!	#DIV/0!	#DIV/0!
0.0120	1,038	1,038,447
0.0065	564	564,408
0.0047	405	405,023
0.0038	324	324,491
0.0032	276	275,612
0.0028	243	242,627
0.0025	219	218,770
0.0023	201	200,650
0.0022	186	186,377
0.0020	175	174,813
0.0019	165	165,234
0.0018	157	157,151
0.0017	150	150,228
0.0017	144	144,223
0.0016	139	138,956
0.0016	134	134,294
0.0015	130	130,133
0.0015	126	126,393
0.0014	123	123,010
0.0014	120	119,932
0.0014	117	117,117
0.0013	115	114,532







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CAIVAN RICHMOND LAFFIN
 SANITARY SERVICING PLAN
 CITY OF OTTAWA

LEGEND

- STUDY LIMIT
 - SANITARY DRAINAGE BOUNDARY
 - EXTERNAL SANITARY DRAINAGE BOUNDARY
 - PROPOSED SANITARY SEWER
- | | |
|--|---|
| | POPULATION PER UNIT
SANITARY DRAINAGE AREA
NUMBER OF UNITS
TOTAL POPULATION
UPSTREAM/DOWNSTREAM MANHOLE |
| | POPULATION PER UNIT
SANITARY DRAINAGE AREA
NUMBER OF UNITS
TOTAL POPULATION
UPSTREAM/DOWNSTREAM MANHOLE |

PROJECT No.:	20-1184
DATE:	June 2020
SCALE:	1:1500
DRAWING:	3

